

CAM service s.r.l.

VALVOLE INDUSTRIALI 2024

CAM service s.r.l.

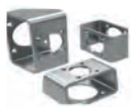
Esperienza,
Dinamismo,
Grande dedizione al lavoro.

Sono i segreti della nostra
COSTANTE CRESCITA

REA - NO 215083 CAP. SOCIALE 70.400 EURO I.V.
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PNEUMATIC AND ELECTRIC ACTUATORS

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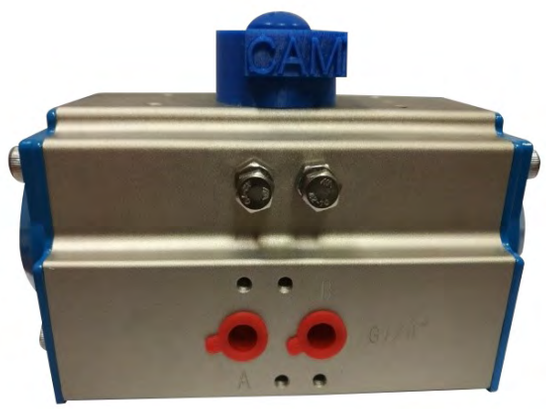
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1- PNEUMATIC AND ELECTRIC ACTUATORS

PNEUMATIC ACTUATOR AT



Specifications

(MODEL) AT
(SIZE RANGE) 8-9000 NM 5,5 BAR
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) DOUBLE ACTIONT,
SPRING RETURN
(BODY MATERIALS) ALLUMINIUM
(CONNECTINON) NAMUR
(TEMPERATURE) -15 +85 C
(OPTION) CLOCKWISE ROTATION
STROKE ADJUSTMENT
VITON GASKETS

ELECTRIC ACTUATOR J4C MULTIVOLTAGE

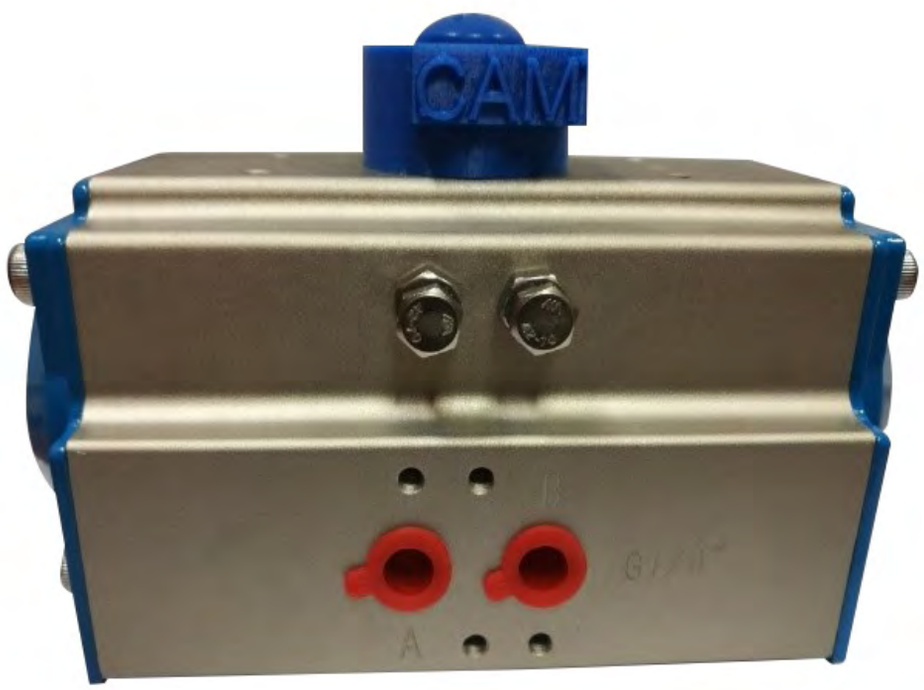
IP 67 **BRUSHLESS MOTOR**



Specifications

(MODEL) J4C
(SIZE RANGE) 20-300 NM
(POWER) 24 TO 240 V BRUSHLESS MOTOR
(TEMPERATURE) -20 +70C
(BODY MATERIALS) POLYCARBONATE
(OPTION) DIGITAL POSITIONER
BATTERY SYSTEM RETURS KIT
DIGITAL POTENTIOMETER
3 POSITION ACTUATOR
MODBUS
KIT INTERFACE

PNEUMATIC ACTUATOR AT SERIES



Produced in China, CAM SERVICE SRL DESIGN AND COSTUMIZATION

DICHIARAZIONE DI CONFORMITÀ UE

Oggetto della dichiarazione: ATTUATORE PNEUMATICO

Fabbricante: CAM SERVICE SRL
Via PRIVATA TICINO SN
28078 Romagnano Sesia (NO)

Questa dichiarazione di conformità è emessa sotto la responsabilità del Fabbricante

Oggetto della dichiarazione: "Attuatori Pneumatici"

Avente la marcatura:

II2G Ex h IIC T6 Gb

CE II2D Ex h IIIC T85° Db

Temperatura ambiente: - 25 °C ÷ 60 °C

Soddisfa i requisiti essenziali di sicurezza e salute ad essa applicabili dalla Direttiva 2014/34/UE.
Riferimento alle norme armonizzate utilizzate:

- UNI EN ISO 80079-36:2016 «Apparecchi non elettrici destinati alle atmosfere esplosive - Metodo e requisiti di base»
- UNI EN ISO 80079-37:2016 «Apparecchi non elettrici destinati alle atmosfere esplosive - Tipo di protezione non elettrica per sicurezza costruttiva "c", per controllo della sorgente di accensione "b", per immersione in liquido "k"»

L'apparecchiatura summenzionata è soggetta al modulo *"controllo interno di fabbricazione" (allegato VIII direttiva Atex):*

Riferimento documentazione tecnica: *Catalogo Attuatori AT*

Ricevuta di deposito presso Nobo

Romagnano Sesia 24/07/2019

tel.: +39 0163-825890
fax: +39 0163-834174

CAM SERVICE SRL
email: borelli@camservicesrl.con
http://www.camservicesrl.com
C.C.I.A.A. MB n° 1093767

P.IVA: IT01512440023

DICHIARAZIONE
DECLARATION

Italia

1 **AVVISO DI RICEVIMENTO**
ACKNOWLEDGEMENT OF RECEIPT

2 **Apparecchiature o Sistemi di Protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive Direttiva 2014/34/UE**
Equipment of Protective System of Component intended for use in potentially explosive atmospheres Directive 2014/34/EU

3 Numero dell'avvISO di ricevimento: **TÜV IT 19 ATEX 072 AR**
Ackowledgement of receipt number:

4 Apparecchiatura o sistema di protezione:
Equipment of protective system:
Attuatore pneumatico serie AT

5 Identificazione del fascicolo tecnico data dal richiedente:
Technical file reference given by applicant:
Attuatore pneumatico serie AT REv/0

6 Richiedente/*Applicant:* **C.A.M. SERVICE SRL**
Via San Martino nr 3
IT - 13045 GATTINARA (VC)

7 Costruttore/Manufacturer: **C.A.M. SERVICE SRL**
Via San Martino nr 3
IT - 13045 GATTINARA (VC)

8 Il TÜV Italia, organismo notificato n° 0948 in conformità Direttiva 2014/34/UE del Consiglio dell'Unione Europea del 26 febbraio 2014, avvisa il richiedente di aver ricevuto il fascicolo tecnico relativo all'apparecchiatura o sistema di protezione sopra citato in accordo alla procedura definita all'articolo 13 paragrafo 1-b-ii della Direttiva 2014/34/UE.
TÜV Italia, notifed body n° 0948 in accordance with the Concil Directive 2014/34/EU of 26 February 2014, notifies to the applicant to have received the technical file relates to the equipment or protective system above mentioned according to procedure defined to Artcle 13 paragraph 1-b-ii of the Directive 2014/34/EU.

Data prima emissione / *First issue date:* **30/09/2019**
Data emissione / *Issue date:* **30/09/2019**
Data scadenza /*Expiry date:* **29/09/2029**

TÜV ITALIA Srl
Organismo Notificato No. 0948
Notified Body, No. 0948

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 081B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

TÜV Italia Srl Industrie Service 09 48 Notified Body

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PEX-01-M043_r06_del 29/03/2018

1 - TECHNICAL CHARACTERISTICS

At series pneumatic actuators, with the integrated use of advanced precision machining equipment, high-quality materials and industrial art design technology. After rigorous testing and optimization of production line, ARC series pneumatic actuators have lots of advantages like smooth and reliable operation, long working life, high corrosion resistance, flexible selection, competitive price and so on.





Piston

The teeth of piston machined by CNC machining center, makes the operation smoother and performance more reliable. Anodized treatment improves the corrosion and wear resistance.



End cap

The function of 95° position limit is optimally designed on the end cap, instead of extra limit screw. This design improves the safety and reliability.



Cam

Cam with lock function*, when the actuator is required to be locked in full open (90°) of fully closed (O°) position, the actuator can be equipped with special bolts and locking device, the actuator position can be locked, and prevent misuse.

AT40 ~AT125 are available at this time





Body

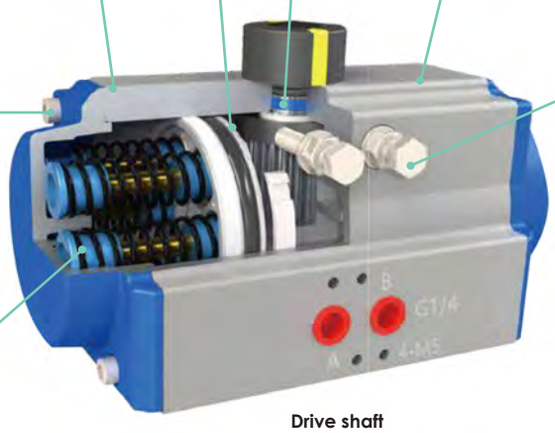
According to different requirements, the surface of aluminum body can be treated with hard anodizing, powder polyester coating in colors (like black, blue, orange, red etc.), PTFE coating of Nickel plated.

Adjust screw

The two independent external travel stop adjust screws can adjust ±5° at both open and close positions easily and precisely.

Fasteners

The stainless steel fasteners, are safe with high corrosion resistance.



Spring

Preloaded and coated springs are made from high quality material for higher corrosion resistance and longer service life, wich can be demounted safely and conveniently to satisfy different requirements of torque by changing quantity of springs.

Drive shaft

The drive shaft is high-precision and integrative, made from nickel plated alloy steel, fully conform to the lastest standards of ISO5211, DIN3337, NAMUR. The dimensions can be costumized and stainless steel is available.





Limit Switch box



Positioner

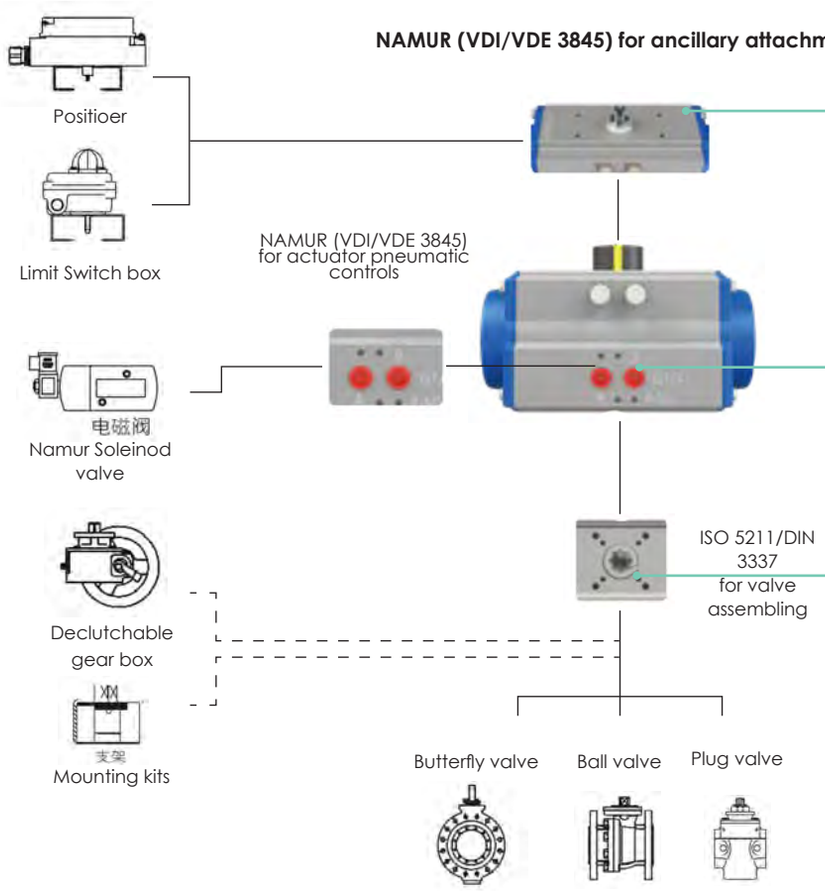


Smart Positioner



NAMUR Solenoid valve

NAMUR (VDI/VDE 3845) for ancillary attachment



NAMUR

NAMUR (VDI/VDE 3845)

The drive shaft top and top mounting connection conform to NAMUR (VDI/VDE 3845) standard, for direct installation of ancillary attachment like position or limit switch box.

NAMUR

Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.

ISO 5211/DIN 3337

The drive shaft bottom hole and bottom mounting connection conform to ISO 5211/DIN 337 standard, for direct installation on valves.
Declutchable gear box or mounting kits as optional.



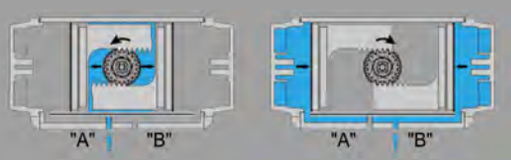






3 - DOUBLE ACTING ACTUATORS

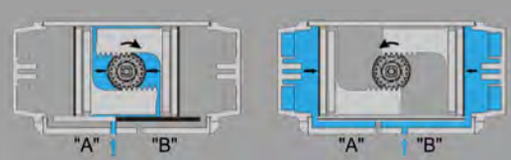
CCW (Standard)



0° close 90° open

Air to Port A forces the pistons outwards, causing the drive shaft to turn counterclockwise while the air is being exhausted from Port B. Air to Port B forces the pistons inwards, causing the drive shaft to turn clockwise while the air is being exhausted from Port A.

CW

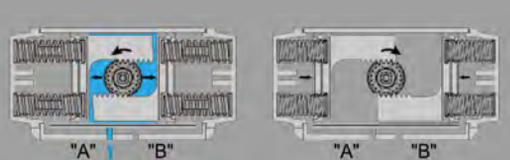


90° open 0° close

Air to Port A forces the pistons outwards, causing the drive shaft to turn clockwise while the air is being exhausted from Port B. Air to Port B forces the pistons inwards, causing the drive shaft to turn counterclockwise while the air is being exhausted from Port A.

3/1 - SPRING RETURN ACTUATORS

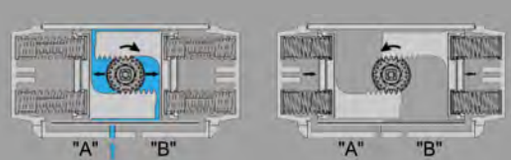
FC-CCW (Standard)



0° close 90° open

Air to Port A forces the pistons outwards, causing the springs to compress, the drive shaft turns counterclock-wise while air is being exhausted from port B. Loss of air pressure on port A, the stored energy in the springs forces the pistons inwards. The drive shaft turns clockwise while air is being exhausted from port A.

FO-CW



90° open 0° close

Air to Port A forces the pistons outwards, causing the springs to compress, the drive shaft turns clockwise while air is being exhausted from port B. Loss of air pressure on port A, the stored energy in the springs forces the pistons inwards. The drive shaft turns counterclock-wise while air is being exhausted from port A.

4 - OPERATING CONDITIONS

- **Operating media**

  Dry or lubricated air, or non-corrosive gases. The maximum particle diameter must be less than 30 μm

- **Air supply pressure**

  The minimum supply pressure is 2 Bar, the maximum supply pressure is 8 Bar

- **Operating temperature**

  Standard (NBR O-rings): -20°C ~ +80°C

  High temperature (Viton O-rings): -20°C ~ +150°C

  Low temperature (LTNBR O-rings): -40°C ~ +120°C

- **Travel adjustment**

  Have adjustment range of ±5° for the rotation at 0° and 90°

- **Lubrication**

  Actuators are factory lubrication located.

  Undernormal operating condition, no need to add lubricant

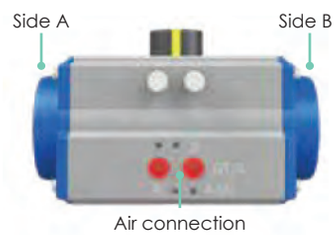
- **Application**

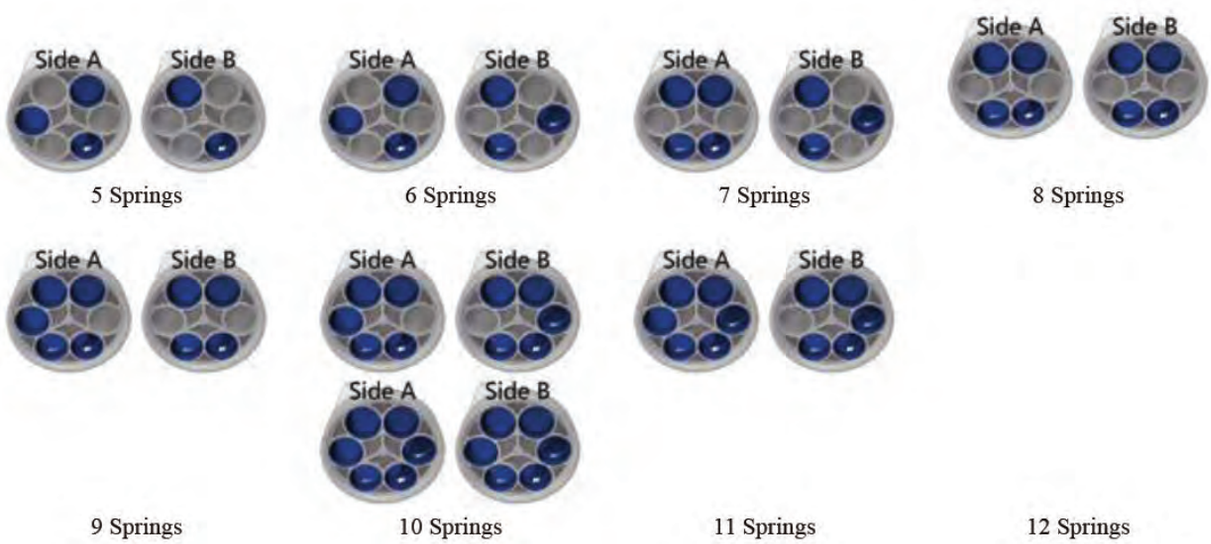
  Either indoor or outdoor

5 - SPRING SET CONFIGURATION

Spring mounting form for spring return actuators

During selecting the spring return actuators, we can choose the more reasonable and more economical actuators, if we know the different torques of the valve at opening, operating and closing.





6 - WEIGHT

Model	32	40	52	63	75	83	92	105	115	125	140	160	190	210	240	270	300	350	400
DA	0.80	0.97	1.22	2.02	2.60	3.23	4.58	5.92	8.18	8.68	14.1	20.6	33.2	39.7	57.0	78.7	121.	210.2	280
SR12	-	1.10	1.35	2.19	2.86	3.64	5.35	6.76	9.30	10.0	16.5	24.4	40.2	49.2	70.0	100.	149.1	259.3	325

7 - OPERATION TIME

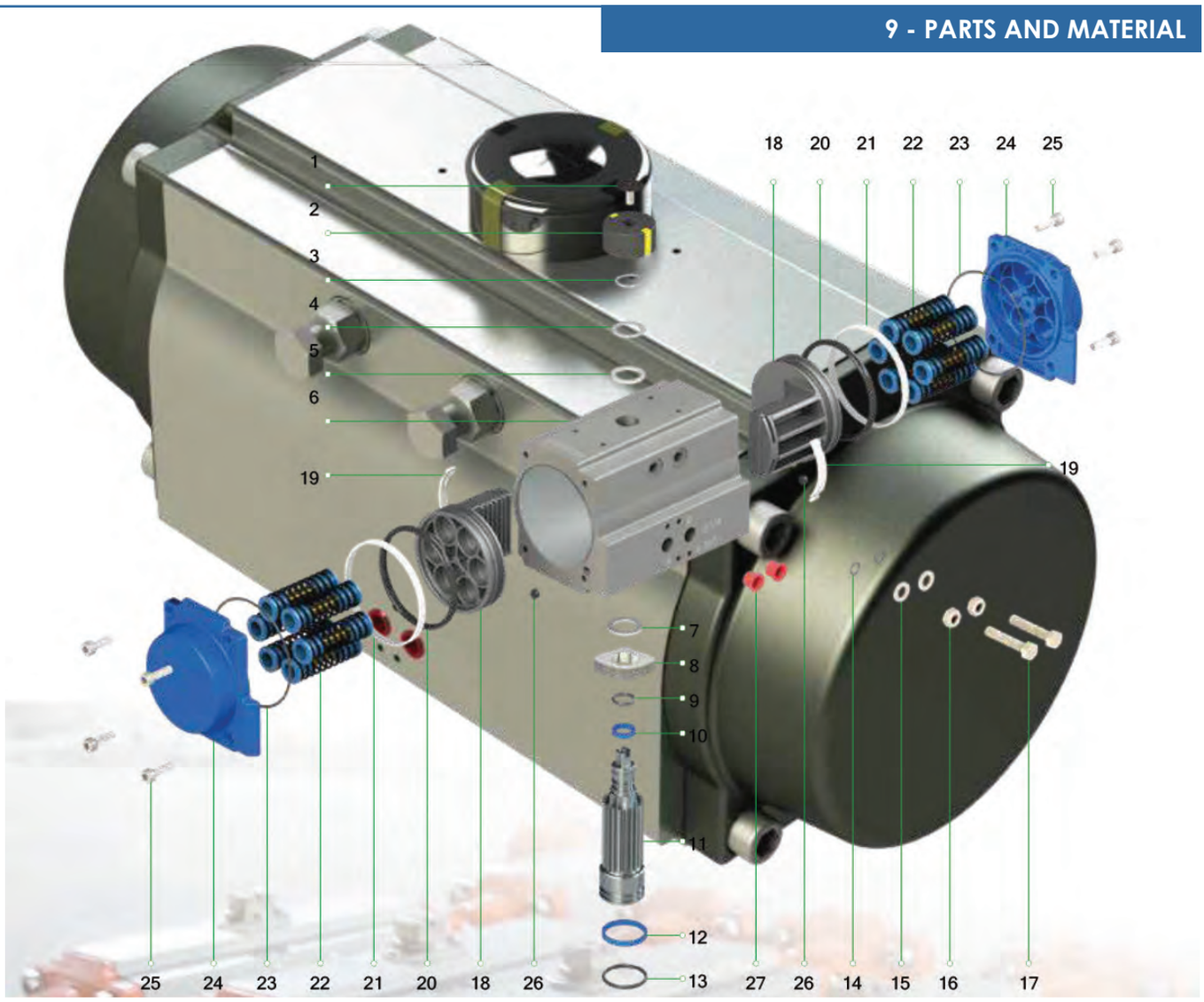
Air pressure 5 bar

Double Acting			Spring Return (Spring Qty)													
			3+3		3+4		4+4		4+5		5+5		5+6		6+6	
Size	0°~90°	90° ~0°	Size	0°~90°	90° ~0°	0°~90°	90° ~0°	0°~90°	90° ~0°	0°~90°	90° ~0°	0°~90°	90° ~0°	0°~90°	90° ~0°	0°~90°	90° ~0°
32DA	0.5	0.5	**32SR**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40DA	0.5	0.5	**40SR**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52DA	0.6	0.6	**52SR**	2.46	0.48	2.48	0.46	2.5	0.44	2.52	0.42	2.54	0.4	2.56	0.38	2.58	0.36
63DA	0.7	0.7	**63SR**	2.54	0.56	2.56	0.54	2.58	0.52	2.6	0.5	2.62	0.48	2.64	0.46	2.66	0.44
75DA	0.8	0.7	**75SR**	2.62	0.64	2.64	0.62	2.66	0.6	2.68	0.58	2.7	0.56	2.72	0.54	2.74	0.52
83DA	0.9	0.8	**83SR**	2.71	0.73	2.73	0.71	2.75	0.69	2.77	0.67	2.79	0.65	2.81	0.63	2.83	0.61
92DA	1.0	1.0	**92SR**	2.89	0.86	2.91	0.84	2.93	0.82	2.95	0.8	2.97	0.78	2.99	0.76	3.01	0.74
105DA	1.5	1.5	**105SR**	3.14	0.91	3.16	0.89	3.18	0.87	3.2	0.85	3.22	0.83	3.24	0.81	3.26	0.79
115DA	1.7	1.7	**115SR**	3.59	1.02	3.61	1.00	3.62	0.98	3.64	0.96	3.66	0.95	3.67	0.93	3.69	0.91
125DA	2	2	**125SR**	4.24	1.2	4.26	1.18	4.28	1.16	4.3	1.14	4.32	1.12	4.34	1.1	4.36	1.08
140DA	2.5	2.5	**140SR**	4.4	1.35	4.4	1.33	4.62	1.31	4.64	1.29	4.66	1.27	4.68	1.25	4.68	1.22
160DA	4	3	**160SR**	4.74	1.77	4.76	1.75	4.78	1.73	4.8	1.71	4.82	1.69	4.82	1.67	4.84	1.65
190DA	5	4	**190SR**	5.75	3.7	5.77	3.5	5.75	3.48	5.77	3.46	5.79	3.44	5.8	3.42	5.83	3.4
210DA	5	4	**210SR**	8.25	4.8	8.4	4.6	8.42	4.58	8.44	4.56	8.46	4.54	8.48	4.52	8.5	4.5
240DA	6	6	**240SR**	16.2	5.14	16.4	5.12	16.42	5.1	16.44	4.9	16.6	4.98	16.8	4.86	17	4.84
270DA	8	8	**270SR**	17.6	6.28	17.8	6.26	17.6	6.24	17.8	6.2	18	6.18	18.2	6.16	18.4	6.14
300DA	12	12	**300SR**	24	13.2	24.5	13	24.4	12.8	24.3	12.6	24.5	12.58	24.7	12.56	24.9	12.54
350DA	14	14	**350SR**	31	17.3	31.5	17	31.3	16.8	31	16.6	31.2	16.58	31.4	16.56	31.6	16.54
400DA	15	15	**400SR**	45	27	51	27	51.3	26.8	51.5	26.8	51.7	26.6	51.9	26.4	52.1	26.2

* The operation time of the actuator depends on the CV values of the solenoid valves, filter regulator and pipes, it also depends on the air pressure, operating load and so on.

8 - AIR CONSUMPTION

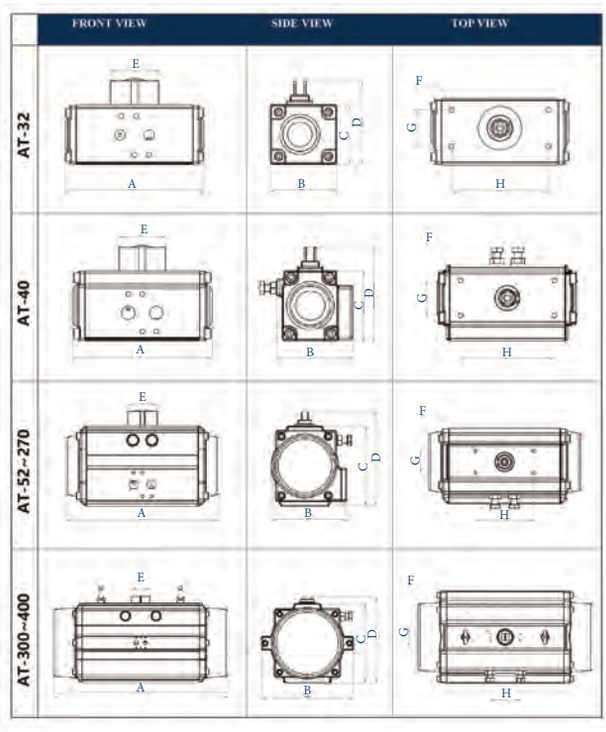
Model	Air volume opening	Air volume closing	Model	Air volume opening	Air volume closing
AT-32	0.04	0.05	**AT-140**	2.5	2.2
AT-40	0.08	0.11	**AT-160**	3.7	3.2
AT-52	0.12	0.16	**AT-190**	5.9	5.4
AT-63	0.21	0.23	**AT-210**	7.5	7.5
AT-75	0.30	0.34	**AT-240**	11.0	9.0
AT-83	0.43	0.47	**AT-270**	17.0	14.0
AT-92	0.64	0.73	**AT-300**	23.8	29.7
AT-105	0.95	0.88	**AT-350**	35.1	46.3
AT-115	1.3	1.2	**AT-400**	52.6	56.0
AT-125	1.6	1.4			



No	Description	Qty	Standard Material	Protection	Optional Material
1	Indicator screw	1	Plastic+Stainless steel		
2	Indicator	1	ABS Plastic		
3	Spring clip	1	Stainless steel		
4	Thrust washer	1	Stainless steel		
5	Outsider washer	1	Polyformal-dehyde		
6	Body	1	Extruded alumi-num (6005-t5)	Hard ano-dized	
7	Inside washer	1	Polyformal-dehyde		
8	Cam	1	45# steel		
9	O-ring (Shaft top)	1	NBR		Viton/LTNBR
10	Bearing (Shaft top)	1	Polyformal-dehyde		
11	Drive Shaft	1	Alloy steel	Nickel plated	Stainless steel
12	Bearing (Shaft bot-tom)	1	Polyformal-dehyde		
13	O-ring (Shaft bot-tom)	1	NBR		Viton/LTNBR

No	Description	Qty	Standard Material	Protection	Optional Material
14	O-ring (Adjust screw)	2	NBR		Viton/LTNBR
15	Gasket	2	Stainless steel		
16	Nut	2	Stainless steel		
17	Adjust screw	2	Stainless steel		
18	Piston	2	Cast aluminum	Anodized	
19	Guide (Piston)	2	Nylon 66		
20	O-ring (piston)	2	NBR		Viton/LTNBR
21	Bearing (Piston)	2	Polyformal-dehyde		
22	Spring	0 ~ 12	Spring steel	Electrophore-tic paint	
23	O-ring (End cap)	2	NBR		Viton/LTNBR
24	End cap	2	Cast aluminum	Powder poly-ester painted etc	
25	Cap screw	8	Stainless steel		
26	Plug	2	NBR		
27	Dustproof plug	2	Plastic		

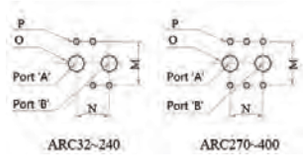
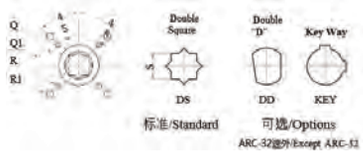
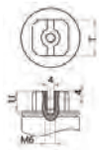




Dimension

Model	32	40	52	63	75	83	92	105	115	125	140	160	190	210	240	270	300	350	400
A	112	124	163,5	181	207	213	258	287	298	342,5	411	488	544	580	622	766	794	880	1067
B	51	60,4	68	80	91,2	100,5	103	116	134	133,7	142	160,5	188,1	202,7	245	273	313	359	290
C	45	60	72	88	99.5	109	116.5	133	144	155	172	197	230	255	289	328	348	408	476
D	71	86	98	113	125	135	143	159	164	181	200	224	260	285	319	358	378	438	493
E	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø55	Ø55	Ø55	Ø55	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80
F	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8
G	25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
H	50	80	80	80	80	80	80	80	80	80	80	80	130	130	130	130	130	130	130

Connection

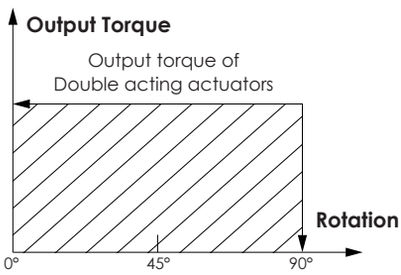
Air connection NAMUR	Bottom view ISO 5211/DIN 3337	Shaft top NAMUR
		

Connection

Model	32	40	52	63	75	83	92	105	115	125	140	160	190	210	240	270	300	350	400
M	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	45	45	45	45
N	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	40	40	40	40
O	G1/8"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/2"	G1/2"	G1/2"	G1/2"
P	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10
Q	/	F03	F03	F05	F05	F05	F05	F07	F07	F07	F10	F10	/	/	/	/	F16	F16	F16
Q1	F03	F05	F05	F07	F07	F07	F07	F10	F10	F10	F12	F12	F14	F14	F16	F16	Ø215	F25	F25
R	/	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10	M8x13	M8x13	M8x13	M10x16	M10x16	/	/	/	/	M20x25	M20x25	M20x25
R1	M5x8	M6x9	M6x9	M8x13	M8x13	M8x13	M8x13	M10x16	M10x16	M10x16	M12x19	M12x19	M16x24	M16x24	M20x25	M20x25	M20x25	M16x24*	M16x24*
S	9x11	11x14	11x14	14x18	14x18	17x21	17x21	22x26	22x26	22x26	27x31	27x31	36x40	36x40	46x50	46x50	46x60	46x60	55x60
T	10	10	10	10	10	10	14	14	22	22	22	22	32	32	32	32	32	32	32
U	12	12	12	12	12	12	12	12	10	10	10	10	12	12	12	12			

11 - OUTPUT TORQUE

FOR DOUBLE ACTING ACTUATOR





/ Torque Unit: Nm

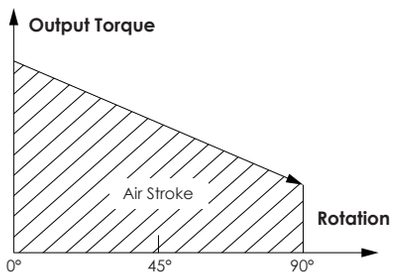
Model	Air supply pressure (Unit bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
AT-32DA	3	4	5	6	7	8	8	9	11	12
AT-40DA	5	6	7	10	11	12	13	14	17	19
AT-52DA	8	10	12	16	18	20	22	24	28	32
AT-63DA	15	18	22	29	33	36	40	44	51	58
AT-75DA	20	25	30	40	45	50	55	60	70	80
AT-83DA	31	39	47	63	70	78	86	94	110	125
AT-92DA	45	56	68	90	102	113	124	135	158	181
AT-105DA	66	83	99	132	149	165	182	198	231	264
AT-115DA	86	108	130	173	194	216	238	259	302	346
AT-125DA	100	125	150	200	226	251	276	301	351	401
AT-140DA	171	214	256	342	385	427	470	513	598	684
AT-160DA	266	332	399	532	598	665	731	798	931	1064
AT-190DA	426	532	638	851	958	1064	1170	1277	1490	1702
AT-210DA	532	665	798	1064	1197	1330	1463	1596	1862	2128
AT-240DA	769	962	1154	1539	1731	1924	2116	2308	2693	3078
AT-270DA	1170	1462	1754	2339	2632	2994	3216	3509	4094	4679
AT-300DA	1526	1908	2289	3052	3434	3815	4197	4578	5341	6104
AT-350DA	2285	2856	3427	4570	5141	5712	6283	6854	7997	9139
AT-400DA	3256	4070	4884	6512	7326	8140	8954	9768	11396	13024

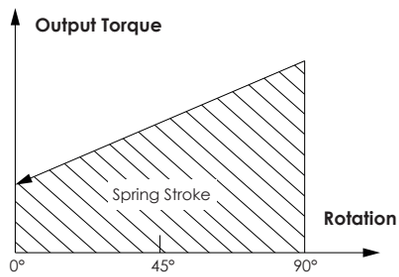
Sizing: Double Acting Actuator
The suggested safety factor for double acting actuators under normal working conditions is 20% - 30%

Example:
The torque needed by valve= 100N.m
The torque considered safety facor (1+30%) = 130N.m
Air Supply = 5Bar
According to the above table, we can select the model ARC105-DA

FOR SPRING RETURN ACTUATOR







Output torque of air to springs																		
Air		2.5 Bar		3 Bar		4 Bar		5 Bar		6 Bar		7 Bar		8 Bar		Spring's output	
Model	Spring Qty	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
AT - 40	**SR2**					5.6	3.4	7.6	5.4	9.6	7.4	12.6	10.4	14.6	12.4	6.6	4.4
AT - 52	SR5	5.7	3.8	7.6	5.7											6.2	4.3
	SR6	4.9	2.5	6.9	4.5	10.9	8.5									7.4	5.0
	SR7	4.0	1.3	6.0	3.3	9.8	7.3	14.0	10.4							8.6	5.9
	SR8			5.2	2.0	9.2	6.0	13.2	9.1	17.2	14.1					9.9	6.7
	SR9			4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8			11.1	7.6
	SR10					7.4	3.6	**11.5**	**6.7**	15.5	11.6	19.5	15.6			**12.4**	**8.5**
	SR11					6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	22.6	18.3	13.6	9.3
	SR12							9.7	4.2	13.8	9.1	17.8	12.2	21.8	17.1	14.8	10.2
AT - 63	SR5	11.4	7.7	15.0	11.4	22.3	14.9									10.4	6.8
	SR6	10.1	5.7	13.6	9.3	20.9	16.6	28.3	23.9							12.5	8.2
	SR7	8.6	3.6	12.5	7.2	19.5	14.5	26.8	21.9							14.6	9.6
	SR8			10.9	5.1	18.2	12.4	25.5	19.8	32.8	27.0	40.1	34.3			16.7	10.9
	SR9					16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2			18.8	12.3
	SR10					1.4	8.2	**22.8**	**15.6**	30.0	22.8	37.3	30.1	44.7	37.4	**20.9**	**13.7**
	SR11							21.5	13.5	28.7	20.7	36.0	28.0	43.3	35.3	22.9	15.0
	SR12							20.0	11.4	27.3	18.6	34.6	25.9	41.9	33.3	25.0	16.4
AT - 75	SR5	14.5	10.6	19.4	15.5	29.5	25.7									14.5	10.5
	SR6	12.4	7.6	17.3	12.6	27.4	22.7	37.5	32.8							17.4	12.7
	SR7	10.4	4.8	15.2	9.7	25.3	19.9	35.4	29.9							20.3	14.8
	SR8			13.1	6.8	23.1	16.9	33.3	27.0	43.2	37.0	53.3	47.0			23.2	16.9
	SR9					21.0	14.1	31.2	24.1	41.1	34.1	51.2	44.2			26.1	19.0
	SR10					19.0	11.1	**28.8**	**21.2**	39.0	31.2	49.1	41.2	59.1	51.2	**29.0**	**21.1**
	SR11							27.0	18.3	37.0	28.3	47.0	38.4	57.0	48.4	31.9	23.2
	SR12							24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	34.7	25.3
AT - 83	SR5	23.3	16.1	31.1	24.0	46.8	39.7									23.0	15.8
	SR6	20.1	11.5	28.0	19.3	43.7	35.1	59.4	50.7							27.6	19.0
	SR7	17.0	6.9	24.8	14.8	40.5	30.5	56.2	46.2							32.2	22.1
	SR8			21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9			36.8	25.3
	SR9					34.2	21.3	49.9	37.0	65.6	52.6	81.2	68.3			41.4	28.5
	SR10					31.0	16.6	**46.7**	**32.3**	62.4	48.0	78.1	63.7	93.8	79.3	**46.0**	**31.6**
	SR11							43.6	27.7	59.3	43.4	75.0	59.1	90.6	74.8	50.6	34.8
	SR12							40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	55.2	38.0

Output torque of air to springs

Model	Spring Qty	Air pressure	2.5 Bar		3 Bar		4 Bar		5 Bar		6 Bar		7 Bar		8 Bar		Spring's output	
			0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
			Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
AT - 92	SR5		33.1	22.0	44.2	33.2	66.8	55.9									34.4	23.3
	SR6		28.4	15.2	39.6	26.4	62.2	49.0	84.8	71.6							41.2	28.0
	SR7		23.8	8.2	34.9	19.4	57.5	42.1	80.2	64.7							48.1	32.7
	SR8				31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103.0			55.0	37.7
	SR9						48.2	28.4	70.9	51.0	93.5	73.6	116.0	96.1			61.9	42.0
	SR10						43.6	21.5	**66.2**	**44.1**	88.8	66.7	111.3	89.2	134.0	111.8	**68.7**	**46.7**
	SR11								61.5	37.2	84.1	59.9	106.6	82.4	129.2	105.0	75.6	51.4
	SR12								56.8	30.4	79.4	53.0	101.9	75.5	124.5	98.1	82.5	56.0
AT - 105	SR5		51.0	33.4	67.5	49.9	100.6	83.0									49.2	31.6
	SR6		44.7	23.5	61.1	40.0	94.2	73.2	127.3	106.2							59.1	38.0
	SR7		38.4	13.7	54.9	30.3	87.9	63.4	121.0	96.4							68.9	44.3
	SR8				48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7			78.7	50.6
	SR9						75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9			88.6	56.9
	SR10						68.9	33.4	**102.0**	**66.5**	135.1	99.6	168.2	132.6	201.2	165.7	**98.4**	**63.3**
	SR11								95.7	57.0	128.7	90.1	161.8	123.1	194.8	156.2	108.3	69.6
	SR12								89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	118.1	75.9
AT - 115	SR5		65	43	87	65	130	108									65	43
	SR6		56	30	78	52	121	95	164	138							78	52
	SR7		47	17	69	39	112	82	155	125							91	61
	SR8				61	26	104	69	147	112	190	155	233	198			104	69
	SR9						95	56	138	99	181	142	224	185			117	78
	SR10						86	43	**129**	**86**	172	129	215	172	259	216	**130**	**87**
	SR11								121	73	164	116	207	159	251	203	143	95
	SR12								112	60	156	104	198	146	242	190	156	104
AT - 125	SR5		73	47	98	72	148	122									79	52
	SR6		63	31	88	56	138	107	188	157							94	63
	SR7		52	15	77	40	127	90	178	141							110	73
	SR8				67	25	117	75	167	125	217	176	268	226			125	84
	SR9						107	59	157	109	207	159	257	210			141	94
	SR10						96	44	**146**	**94**	196	144	247	194	297	245	**157**	**105**
	SR11								136	78	186	128	236	178	286	228	173	115
	SR12								125	63	176	113	226	163	276	213	188	125
AT - 140	SR5		128	85	171	127	256	213									129	86
	SR6		111	59	154	102	239	187	325	273							155	103
	SR7		94	33	137	76	222	162	308	247							181	120
	SR8				120	50	205	136	291	221	376	307	462	392			206	137
	SR9						187	110	273	196	358	281	444	367			232	155
	SR10						170	84	**256**	**169**	341	255	427	340	512	426	**258**	**172**
	SR11								238	143	324	229	409	314	495	400	284	189
	SR12								221	118	307	203	392	289	478	374	310	206
AT - 160	SR5		193	124	259	191	392	324									208	140
	SR6		165	83	232	149	365	282	498	415							250	168
	SR7		137	41	203	107	336	240	496	373							292	196
	SR8				176	66	309	199	442	237	575	465	708	598			333	223
	SR9						280	157	413	290	546	423	679	556			375	251
	SR10						253	115	**386**	**248**	519	381	652	514	785	647	**417**	**279**
	SR11								358	207	491	340	624	473	757	606	458	307
	SR12								330	165	463	298	596	431	729	564	500	335
AT - 190	SR5		332	222	438	329	651	542									309	200
	SR6		292	161	398	267	611	480	824	693							371	240
	SR7		252	99	358	205	571	418	784	631							433	280
	SR8				318	143	531	356	744	569	957	782	1169	995			495	320
	SR9						491	295	704	507	917	720	1130	933			557	360
	SR10						451	233	**664**	**446**	877	658	1090	871	1302	1084	**618**	**400**
	SR11								624	384	837	579	1050	809	1263	1022	680	440
	SR12								584	322	797	535	1010	748	1223	960	742	480

Output torque of air to springs

Model	Air pressure / Spring Qty	2.5 Bar 0° Start	2.5 Bar 90° End	3 Bar 0° Start	3 Bar 90° End	4 Bar 0° Start	4 Bar 90° End	5 Bar 0° Start	5 Bar 90° End	6 Bar 0° Start	6 Bar 90° End	7 Bar 0° Start	7 Bar 90° End	8 Bar 0° Start	8 Bar 90° End	Spring's output 0° Start	Spring's output 90° End
AT - 210	SR5	390	285	523	418	789	684									380	275
	SR6	335	209	468	342	734	608	1000	874							456	330
	SR7	280	133	413	266	679	532	945	798							532	385
	SR8			358	190	624	456	890	722	1156	988	1422	1254			608	440
	SR9					569	380	835	646	1101	912	1367	1178			684	495
	SR10					514	304	**780**	**570**	1046	836	1312	1102	1578	1368	**760**	**550**
	SR11							725	494	991	760	1257	1026	1523	1292	836	605
	SR12							670	418	936	684	1202	950	1468	1216	912	660
AT - 240	SR5	552	109	744	600	1129	985									554	410
	SR6	470	297	662	489	1047	874	1432	1259							665	492
	SR7	388	187	580	379	964	764	1349	1149							775	575
	SR8			498	268	883	653	1267	1037	1652	1422	2037	1807			886	656
	SR9					800	542	1185	926	1569	1311	1954	1696			998	739
	SR10					718	431	**1103**	**816**	1488	1201	1872	1586	2275	1970	**1108**	**821**
	SR11							1021	705	1406	1090	1791	1474	2176	1859	1219	903
	SR12							939	594	1323	979	1708	1363	2093	1748	1330	985
AT - 270	SR5	903	675	1195	968	1779	1552									787	560
	SR6	790	519	1083	811	1667	1396	2252	1981							943	672
	SR7	679	316	972	654	1556	1238	2141	1823							1101	783
	SR8			860	497	1444	1081	2029	1666	2614	2252	3199	2836			1258	895
	SR9					1332	923	1917	1509	2502	2094	3087	2678			1416	1007
	SR10					1220	767	**1805**	**1352**	2390	1937	2974	2521	3560	3107	**1572**	**1119**
	SR11							1693	1693	2278	1779	2862	2364	3448	2949	1730	1231
	SR12							1582	1582	2167	1623	2751	2207	3336	2792	1887	1342
AT - 300	SR5	1097	729													1061	730
	SR6	935	494	1316	875											1273	876
	SR7	772	258	1153	639	1916	1402									1485	1022
	SR8			991	403	1754	1166	2517	1929							1697	1168
	SR9					1592	930	2355	1693	3118	2456					1909	1314
	SR10					1430	695	**2193**	**1458**	2956	2221	3719	2984	4482	3747	**2122**	**1460**
	SR11							2030	1222	2793	1985	3556	2748	4319	3511	2334	1606
	SR12							1868	1868	2631	1749	3394	2512	4157	3275	2546	1752
AT - 350	SR5	1553	964													1702	1173
	SR6	1292	586	1863	1157											2043	1408
	SR7	1031	208	1602	779	2745	1922									2383	1642
	SR8			1341	401	2484	1544	3626	2686							2724	1877
	SR9					2224	1165	3336	2307	4508	3449					3064	2112
	SR10					1963	787	**3105**	**1929**	4247	3071	5390	4214	6532	5356	**3405**	**2346**
	SR11							2844	1551	3986	2693	5129	3836	6271	4978	3745	2581
	SR12							2584	1172	3726	2314	4869	3457	6011	4599	4986	2816
AT - 400	SR5	2028	869													2880	1837
	SR6	1736	411	2550	1225											3292	2100
	SR7			2259	768	3887	2396									3703	2362
	SR8			1967	311	3595	1939	5223	3567							4115	2624
	SR9					3303	1482	4931	3110	6559	4738					4526	2887
	SR10					3012	1025	4640	2653	6268	4281	7895	5908	9523	7536	4838	3149
	SR11							4348	2195	5976	3823	7603	5450	9231	7078	5349	3412
	SR12							**4057**	**1738**	5685	3366	7312	4993	8940	6621	**5761**	**3674**
								3765	1281	5393	2909	7020	4536	8648	6164	6172	3937
										5101	2452	6728	4079	8356	5707	6584	4199

ISTRUZIONI DI ASSEMBLAGGIO MODELLO AT

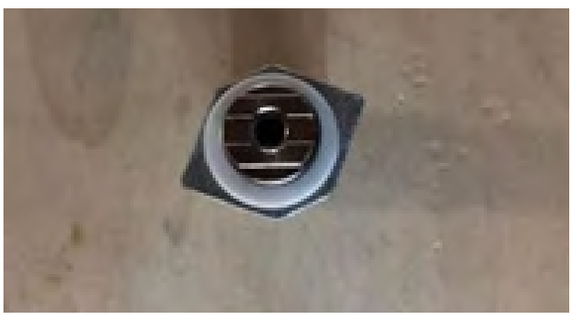
PROCESSO DI ASSEMBLAGGIO		
PREMESSA: la camera dell'attuatore e tutti i componenti presenti all'interno, devono essere puliti e successivamente oleati prima dell'assemblaggio.		
STRUMENTI: morsa, pinza per sieger, mazzuola, chiavi inglesi, chiavi esagonali, pinza.		
Paragrafo	Assemblaggio	Metodi di verifica Controllo
1 Pignone e stop esagonale	Inserire parzialmente il pignone nella camera in posizione di apertura. Dall'interno, incastonare lo stop esagonale con la sua guarnizione a 45° rispetto alla linea del pignone. Inserire totalmente il pignone nella camera e ruotarlo di 45° in senso antiorario.	
2 Primo bullone di regolazione	Avvitare un bullone nel foro sinistro fino a toccare leggermente la punta dello stop esagonale presente all'interno.	
3 Cremagliere	Inserire le due cremagliere nei rispettivi alloggiamenti in modo diagonalmente opposto e parallelo. Fermarle in modo da rimanere sul bordo delle uscite. Solo successivamente spingere entrambe le basi delle cremagliere ruotando in contemporanea il pignone in senso orario.	
4 Secondo bullone di regolazione	Avvitare il secondo bullone nel foro destro progressivamente e regolarlo in modo da ottenere i 90° in entrambi i movimenti di apertura e chiusura.	
5 Guarnizione - rondella - sieger	Infilare nella testa del pignone i seguenti elementi e nell'ordine qui riportato: guarnizione, rondella, sieger.	
6 Testate laterali	Inserire l'O-ring all'interno della scanalatura presente nelle testate e lubrificare con grasso/olio. Stringere saldamente la vite centrale della testata. Posizionare le testate laterali sulle uscite della camera e avvitarle con i quattro bulloni con incasso esagonale.	
7 Controllo e avvertenze	Stringere fino in fondo i dadi dei bulloni di regolazione. Collaudare l'attuatore in modo da verificarne il corretto funzionamento.	



1



1



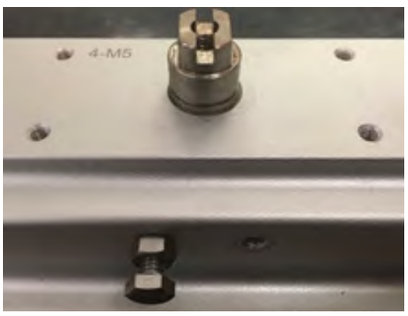
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1



1



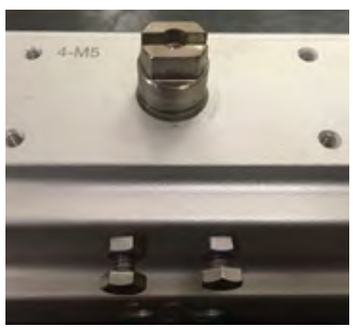
2



3



3



4



5



5



6



INTERNO DI APERTURA

ACTUATOR ACCESSORY

SPRING CARTRIDGE

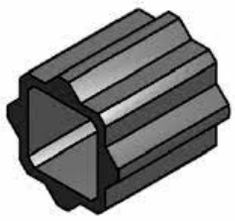


Specifications

(MODEL) SPRING

SIZE	AT52SX	AT63SX	AT75SX	AT83SX	AT92SX	AT105SX
CODICE	AT52-SPRING	AT63-SPRING	AT75-SPRING	AT83-SPRING	AT92-SPRING	AT105-SPRING
SIZE	AT125SX	AT140SX	AT160SX	AT190SX	AT210SX	
CODICE	AT125-SPRING	AT140-SPRING	AT160-SPRING	AT190-SPRING	AT210-SPRING	

DOUBLE SQUARE ADAPTERS

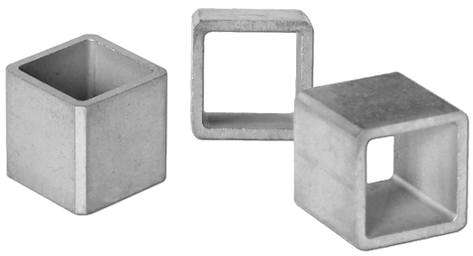


Specifications

(MODEL) POLIGONALI
(BODY MATERIALS) INOX

SIZE	11X9	14X9	14X11	17X11	17X14	22X17
CODICE	POLIG11X9	POLIG14X9	POLIG14X11	POLIG17X11	POLIG17X14	POLIG22X17
SIZE	27X22	36X27				
CODICE	POLIG27X22	POLIG36X27				

DOUBLE SQUARE ADAPTERS



Specifications

(MODEL) QUADRO
(BODY MATERIALS) INOX

SIZE	11X9	14X9	14X11	17X11	17X14	22X17
CODICE	QUADRO11X9	QUADRO14X9	QUADRO14X11	QUADRO17X11	QUADRO17X14	QUADRO22X17
SIZE	27X22	36X27				
CODICE	QUADRO27X22	QUADRO36X27				

KIT OR NBR FOR AT ACTUATOR



Specifications

(MODEL) FX999-NBR
(BODY MATERIALS) NBR

SIZE	AT32	AT40	AT52	AT63	AT75	AT83
CODICE	AT32-BUNA-OR	AT40-BUNA-OR	AT52-BUNA-OR	AT63-BUNA-OR	AT75-BUNA-OR	AT83-BUNA-OR
SIZE	AT92	AT105	AT125	AT140	AT2160	AT190
CODICE	AT92-BUNA-OR	AT105-BUNA-OR	AT125-BUNA-OR	AT140-BUNA-OR	AT160-BUNA-OR	AT190-BUNA-OR

KIT OR FKM FOR AT ACTUATOR



Specifications

(MODEL) FX999-FKM
(BODY MATERIALS) FKM

SIZE	AT32	AT40	AT52	AT63	AT75	AT83
CODICE	AT32-FKM-OR	AT40-FKM-OR	AT52-FKM-OR	AT63-FKM-OR	AT75-FKM-OR	AT83-FKM-OR
SIZE	AT92	AT105	AT125	AT140	AT160	AT190
CODICE	AT92-FKM-OR	AT105-FKM-OR	AT125-FKM-OR	AT140-FKM-OR	AT160-FKM-OR	AT190-FKM-OR

TAILORED ADAPTERS



Specifications

(MODEL) PCS (A105) – PSS (INOX)
(BODY MATERIALS) INOX316L - CARBON STEEL

SIZE	9 MM	11 MM	14 MM	17 MM	22 MM	27 MM
A 105	PCS009	PCS011	PCS014	PCS017	PCS022	PCS027
SIZE	9 MM	11 MM	14 MM	17 MM	22 MM	27 MM
INOX	PSS009	PSS011	PSS014	PSS017	PSS022	PSS027



Specifications

(MODEL) BRACKET
(BODY MATERIALS) INOX316L - CARBON STEEL

SIZE	F03-F03	F03-F04	F03-F05	F04-F05	F05-F05
A 105	BRAK9000F03/F03	BRAK9001F03/F04	BRAK9002F03/F05	BRAK9005-F04/F05	BRAK9008F05/F05
SIZE	F05-F07	F07-F07	F07-F10	F10/F10	F10/F14
A 105	BRAK9009F05/F07	BRAK9012F07/F07	BRAK9013F07/F10	BRAK9016F10/F10	BRAK9018F10/F14
SIZE	F12/F12	F12/F14			
A 105	BRAK9020F12/F12	BRAK9021F12/F14			
SIZE	F03-F03	F03-F04	F03-F05	F04-F05	F05-F05
INOX	BRAK1000F03/F03	BRAK1001F03/F04	BRAK1002F03/F05	BRAK1005-F04/F05	BRAK1008F05/F05
SIZE	F05-F07	F07-F07	F07-F10	F10/F10	F10/F14
INOX	BRAK1009F05/F07	BRAK1012F07/F07	BRAK1013F07/F10	BRAK1016F10/F10	BRAK1018F10/F14
SIZE	F12/F12	F12/F14			
INOX	BRAK1020F12/F12	BRAK1021F12/F14			

	RAGGIO X 2 ISO 1	INTERSASSE E FORI
F03	36 MM	25 MM
F04	40 MM	30 MM
F05	50 MM	35 MM
F07	70 MM	55 MM
F10	102 MM	70 MM
F12	125 MM	85 MM
F14	140 MM	100 MM
F16	165 MM	130 MM
F25	254 MM	200 MM
F30	298 MM	230 MM

TABELLA RILEVAMENTO QUOTE

PN20	ANSI150/ASME
PN50	ANSI300/ASME
PN64	ANSI400/ASME
PN100	ANSI600/ASME
PN150	ANSI900/ASME
PN250	ANSI1500/ASME
PN420	ANSI2500/ASME

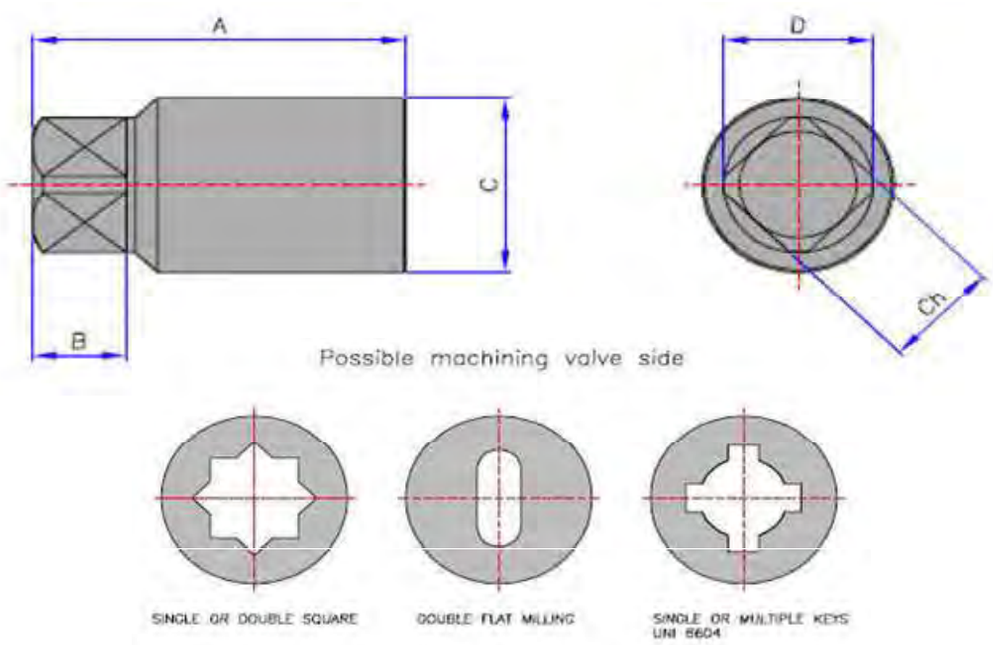
MODEL TYPE	A*	B	C	D	Ch
CH9	50	12	20	11.5	9X9
CH9	72	12	20	11.5	9X9
CH11	76	16	25	14	11X11
CH14	76	16	30	17.5	14X14
CH17	79	19	40	21.5	17X17
CH22	104	24	50	21.5	22X22
CH27	109	29	50	34	27X27
CH36	128	38	60	46	36X36
CH46	148	48	70	58	46X46
CH55	157	57	80	70	55X55

* Only semimachined

Dimensions in mm

MATERIALS
Carbon steel 11SMnPb37+C GALVANIZED
Stainless steel 1.4404 (AISI 316L)

Other materials on request
Other forms on request

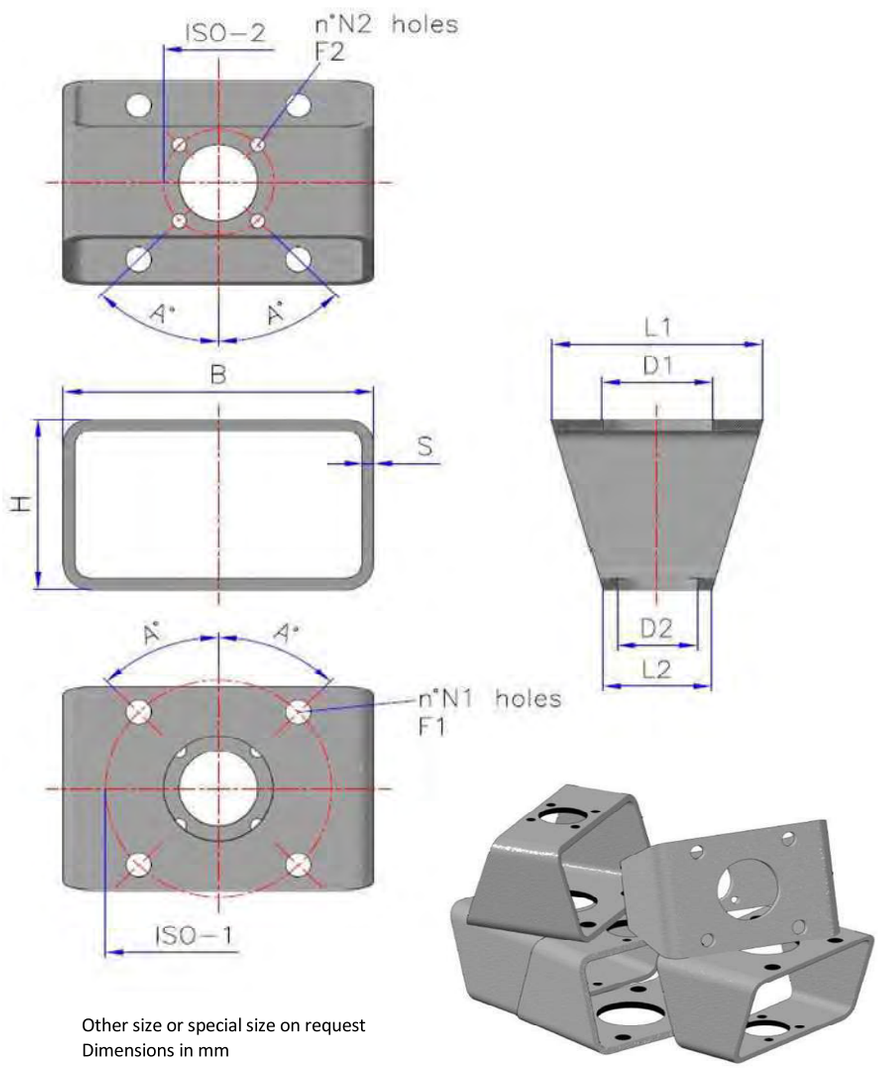


BRACKET ISO 5211 DIMENSIONS

MODEL TYPE	B	H	S (FE)	S (316)	ISO-2	L2	D2	N2	F2	ISO-1	L1	D1	N1	F1
F03/F03	80	40	4	3	36	36	25	4	5.5	36	36	25	4	5.5
F03/F04	100	60	5	4	36	36	25	4	5.5	42	42	30	4	5.5
F03/F05	100	60	5	4	36	36	25	4	5.5	50	50	35	4	6.5
F03/F07	100	60	5	4	36	36	25	4	5.5	70	70	55	4	9
F03/F10	140	80	6	5	36	36	25	4	5.5	102	90	70	4	11
F04/F04	100	60	5	4	42	42	30	4	5.5	42	42	30	4	5.5
F04/F05	100	60	5	4	42	42	30	4	5.5	50	50	35	4	6.5
F04/F07	100	60	5	4	42	42	30	4	5.5	70	70	55	4	9
F04/F10	140	80	6	5	42	42	30	4	5.5	102	90	70	4	11
F05/F05	100	60	5	4	50	50	35	4	6.5	50	50	35	4	6.5
F05/F07	100	60	5	4	50	50	35	4	6.5	70	70	55	4	9
F05/F10	140	80	6	5	50	50	35	4	6.5	102	90	70	4	11
F05/F12	140	80	6	5	50	50	35	4	6.5	125	110	85	4	13
F07/F07	100	60	5	4	70	70	55	4	9	70	70	55	4	9
F07/F10	140	80	6	5	70	70	55	4	9	102	90	70	4	11
F07/F12	140	80	6	5	70	70	55	4	9	125	110	85	4	13
F07/F14	160	90	6	5	70	70	55	4	9	140	135	100	4	17
F10/F10	140	80	6	5	102	90	70	4	11	102	90	70	4	11
F10/F12	140	80	6	5	102	90	70	4	11	125	110	85	4	13
F10/F14	160	90	6	5	102	90	70	4	11	140	135	100	4	17
F10/F16	220	120	10	8	102	90	70	4	11	165	160	130	4	22
F12/F12	140	80	6	5	125	110	85	4	13	125	110	85	4	13
F12/F14	160	90	6	5	125	110	85	4	13	140	135	100	4	17
F12/F16	220	120	10	8	125	110	85	4	13	165	160	130	4	22
F14/F14	160	90	6	5	140	135	100	4	17	140	135	100	4	17
F14/F16	220	120	10	8	140	135	100	4	17	165	160	130	4	22
F14/F25	350	150	10	8	140	135	100	4	17	254	300	200	8	17
F16/F16	220	120	10	8	165	160	130	4	22	165	160	130	4	22
F16/F25	350	150	10	8	165	160	130	4	22	254	300	200	8	17
F25/F25	350	150	10	8	254	300	200	8	17	254	300	200	8	17
F25/F30	350	150	10	8	254	300	200	8	17	298	350	230	8	22
F30/F30	350	150	10	8	298	300	230	8	22	298	350	230	8	22

MATERIALS
S235JR (FE360) - S355J2 (FE510) GALVANIZED
1.4401 (AISI 316)

TYPE	A°
F03 to F16	45°
F25 to F30	22.5°



Other size or special size on request
Dimensions in mm

Multivoltaje total
all voltages

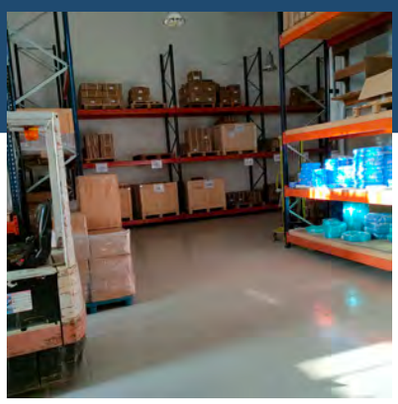
ELETRIC POWER

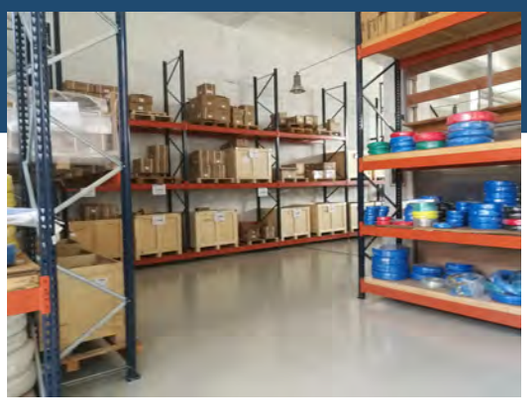
ATTUATORI ELETTRICI
ELETRIC ACTUATORS





20Nm v 300Nm | IP67 | 75% Duty rating | Eletronic Torgue Limiter | Automatic Temperature Control | Battery System Returns | Digital Positioner System | Bluetooth | Modbus

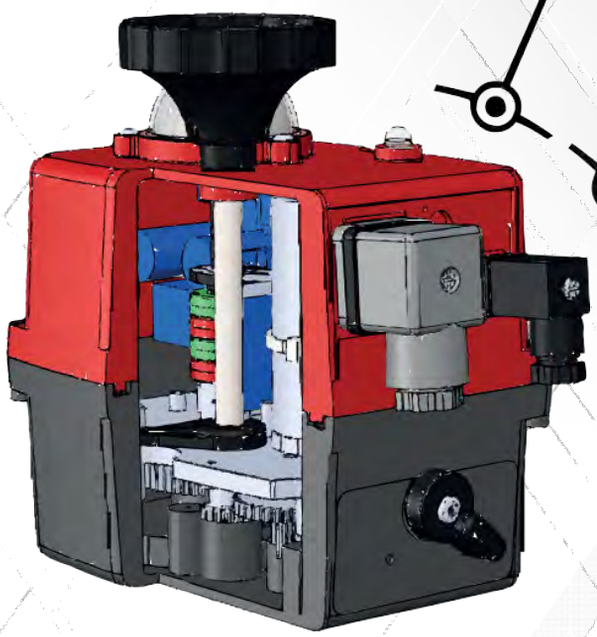




TECNOLOGIA BRUSHLESS
BRUSHLESS TECHNOLOGY

Senza abbandonare la nostra filosofia di **attuatori multitensione totali**, vorremmo introdurre, nella nostra gamma di attuatori elettrici, la **serie**, che funziona, per la prima volta, con un **motore brushless**. Il **motore brushless** è più forte, più efficiente e richiede meno manutenzione rispetto a un motore con spazzole. Contribuisce sicuramente ad **allungare la vita dei nostri attuatori**. Stiamo lanciando una **gamma completa** di coppie, da 20 Nm a 300 Nm, i cui modelli **B** funzionano a **12 CA/CC** e i modelli **S** fanno lo stesso da **24 CA/CC** a **240 CA/CC**.
La sua tecnologia di alto livello, rende i nostri attuatori in grado di comunicare in modo intelligente, utilizzando sia il protocollo **MODBUS** che tramite **BLUETOOTH**. I sistemi di comunicazione menzionati compaiono nel nostro catalogo come "**opzioni di fabbrica**".

Without leaving our philosophy of **total multivoltage** actuators, we would like to introduce, in our range of electric actuators, the **series**, which works, for the first time, with a **brushless motor**.
The **brushless motor** is stronger, more efficient and with less maintenance than a brushed motor. It definitely contributes to **enlarge our actuators life**. We are launching a **complete range** of torques, from 20Nm to 300Nm, which **B** models work at **12AC/VDC** and **S** models do the same from **24VAC/VDC** to **240VAC/VDC**.
Its high level technology, makes our actuators capable to communicate intelligently, using both the **MODBUS** protocol or via **BLUETOOTH**. The mentioned communication systems appear as "**factory options**" in our catalogue.

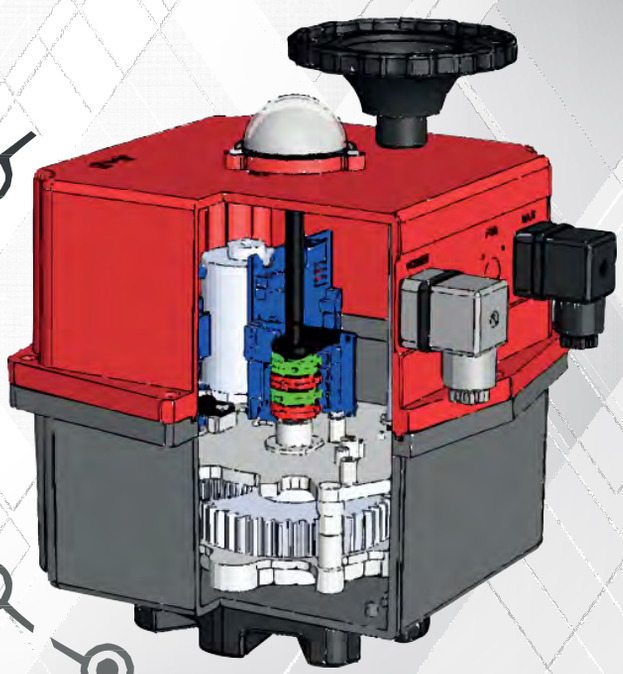


VCO Controllo visuale dell'operazione
Visual control of operation

AVS Tensione di alimentazione plg
All voltage supply plg

VFC Contatto libero da tensione
Volt free contact plug

MDL Disinnesto automatico/manuale
Automatic/manual declutching



EMO Comando manuale di emergenza
Emergency manual override

VPI Indicatore di posizione visivo a 360°
360° Visual position indicator

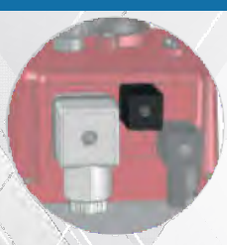
ETL Limitatore di coppia elettronico
Eletronic torque limiter

ATC Controllo automatico interno di temperatura
Automatic indoor temperature control

AVS PCB

PCB diviso
Alimentazione + Controllo
Split PCB
Power supply + Control

Opzionale: presa INTERFACCIA
Optional: INTERFACE plug



SPECIFICHE/SPECIFICATIONS

Serie/Series	Modello/Model	Voltaggio/Voltage
	S20 S35 S55 S85 S140 S300	24 to 240 VDC/VAC 50/60Hz -0/+5%

Serie/Series	Modello/Model	Voltaggio/Voltage
	B20 B35 B55 B85 B140 B300	12 VDC/VAC 50/60Hz -0/+5%

Serie Modello/Series Model	S20/B20	S35/B35	S55/B55	S85/B85	S140/B140	S300/B300
Scarico tempo di funzionamento/Operation time unload	10 Sec./90°	10 Sec./90°	13 Sec./90°	29 Sec./90°	25 Sec./90°	48 Sec./90°
Rottura di coppia massima/Maximum torque break	25 Nm/221 lb/in	38 Nm/359,3 lb/in	60 Nm/530 lb/in	90 Nm/796,3 lb/in	170 Nm/1504,5 lb/in	350 Nm/3097,5 lb/in
Coppia operativa massima/Maximum operational torque	20 Nm/177 lb/in	35 Nm/309 lb/in	55 Nm/486 lb/in	85 Nm/752 lb/in	140 Nm/1239 lb/in	300 Nm/2655 lb/in
Classificazione del servizio/Duty rating	75%	75%	75%	75%	75%	75%
Angolo di lavoro massimo/Max. working angle	0°-270°	0°-270°	0°-270°	0°-270°	0°-270°	0°-270°
Finecorsa/Limit switch	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)
Riscaldatore automatico/Automatic heater	3.5 W	3.5 W	3.5 W	3.5 W	3.5 W	3.5 W
Spina grande/Big Plug	EN1 75301-803 FORM A	EN1 75301-803 FORM A	EN1 75301-803 FORM A	EN1 75301-803 FORM A	EN1 75301-803 FORM A	EN1 75301-803 FORM A
Spina piccola/Small Plug	DIN43650/C	DIN43650/C	DIN43650/C	DIN43650/C	DIN43650/C	DIN43650/C
Protezione IEC 60529/Protection IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67
Temperatura/Temperature	-20°C +70°C -4°F +158°F	-20°C +70°C -4°F +158°F	-20°C +70°C -4°F +158°F	-20°C +70°C -4°F +158°F	-20°C +70°C -4°F +158°F	-20°C +70°C -4°F +158°F
Piatto ISO 5211/ISO 5211 Plate	Standard: F03/F04/F05 Optional: F07 *17mm	Standard: F03/F04/F05 Optional: F07 *17mm	F05/F07	F05/F07	Standard: F07/F10 Optional: F12	Standard: F07/F10 Optional: F12
Azionamento di uscita femmina DIN 3337/ DIN 3337 Female output drive	Standard: *14mm Optional: *9, *11mm	Standard: *14mm Optional: *9, *11mm	Standard: *17mm Optional: *11, *14mm	Standard: *17mm Optional: *14mm	Standard: *22mm Optional: *17mm	Standard: *22mm Optional: *17mm
Peso/Weight	1,8 kg	1,9 kg	2,4 kg	3 kg	5,2 kg	5,2 kg

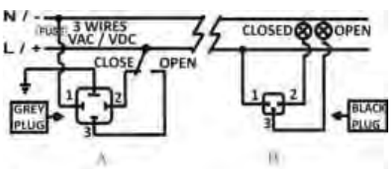
KIT DPS Posizione digitale KIT DPS Digital positioner	4-20, 0-20mA, 0-10V or 1-10V	4-20, 0-20mA, 0-10V or 1-10V	4-20, 0-20mA, 0-10V or 1-10V	4-20, 0-20mA, 0-10V or 1-10V	4-20, 0-20mA, 0-10V or 1-10V	4-20, 0-20mA, 0-10V or 1-10V
KIT BRS Sistema di kit anticaduta di emergenza a batteria KIT BRS Emergency fall safe kit system by battery	NC - NO	NC - NO	NC - NO	NC - NO	NC - NO	NC - NO
Potenziometro digitale/Digital potentiometer	IP67	1K, 5K, 10K	1K, 5K, 10K	1K, 5K, 10K	1K, 5K, 10K	1K, 5K, 10K
Attuatore a 3 posizioni/3 Position actuator	0°-45°-90° 0°-90°-180°	0°-45°-90° 0°-90°-180°	0°-45°-90° 0°-90°-180°	0°-45°-90° 0°-90°-180°	0°-45°-90° 0°-90°-180°	0°-45°-90° 0°-90°-180°

TABELLA DEI CONSUMI/TABLE OF CONSUMPTIONS

	S20/B20						S35/B35						S55/B55					
	Unload		Max. Operational Torque 20Nm		Max.Torque Break 25Nm		Unload		Max. Operational Torque 35Nm		Max.Torque Break 38Nm		Unload		Max. Operational Torque 55Nm		Max.Torque Break 60Nm	
Voltage	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W
12 VDC	0.75	9.06	1.80	21.60	1.95	23.36	0.75	9.06	2.38	28.62	2.62	31.50	0.70	8.45	3.04	36.43	3.42	41.05
24 VDC	0.45	10.77	0.90	21.49	0.97	23.39	0.45	10.77	1.28	30.78	1.37	32.79	0.42	10.19	1.55	37.17	1.63	39.02
48 VDC	0.21	9.93	0.42	20.38	0.46	22.07	0.21	9.93	0.56	26.72	0.59	28.20	0.20	9.72	0.61	29.25	0.67	32.31
110 VDC	0.07	8.00	0.13	14.30	0.14	15.70	0.07	7.70	0.17	18.90	0.18	20.10	0.07	7.50	0.19	20.80	0.21	23.20
12 VAC	1.04	12.51	1.85	22.18	2.28	27.32	1.04	12.51	2.75	33.00	3.19	38.28	0.94	11.30	3.43	41.18	3.78	45.41
24 VAC	0.59	14.20	1.12	26.77	1.28	30.62	0.59	14.20	1.58	37.80	1.67	40.13	0.58	13.89	1.87	44.88	1.98	47.52
48 VAC	0.34	16.37	0.69	33.16	0.75	36.22	0.34	16.37	0.92	44.04	0.99	47.31	0.33	15.73	1.10	52.80	1.21	58.29
110 VAC	0.14	15.73	0.27	29.52	0.30	32.67	0.14	15.73	0.36	39.45	0.38	41.87	0.14	15.73	0.40	43.80	0.43	46.95
240 VAC	0.10	23.76	0.15	36.43	0.16	39.07	0.10	23.76	0.19	45.41	0.20	47.52	0.09	22.70	0.20	47.52	0.21	50.16

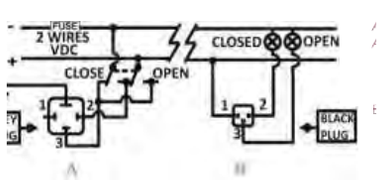
	S85/B85						S140/B140						S300/B300					
	Unload		Max. Operational Torque -85Nm		Max.Torque Break -90Nm		Unload		Max. Operational Torque -140Nm		Max.Torque Break -170Nm		Unload		Max. Operational Torque -300Nm		Max.Torque Break -350Nm	
Voltage	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W
12 VDC	0.62	7.42	2.11	25.34	2.28	27.32	1.93	23.10	4.73	56.76	5.39	64.68	1.32	15.84	5.17	62.04	5.45	65.34
24 VDC	0.36	8.55	1.08	25.87	1.22	29.30	0.66	15.84	2.15	51.48	2.53	60.72	0.50	11.88	2.31	55.44	2.70	64.68
48 VDC	0.17	8.24	0.48	22.92	0.53	25.56	0.30	14.25	0.88	42.24	1.10	52.80	0.22	10.56	1.10	52.80	1.19	57.02
110 VDC	0.05	5.80	0.14	15.20	0.16	17.90	0.10	10.89	0.28	30.25	0.39	42.35	0.09	9.68	0.33	36.30	0.39	42.35
12 VAC	0.81	9.69	2.38	28.51	2.65	31.81	2.75	33.00	6.60	79.20	8.47	101.64	1.98	23.76	7.26	87.12	8.64	103.62
24 VAC	0.50	11.88	1.36	32.74	1.50	36.01	0.83	19.80	2.59	62.04	3.30	79.20	0.66	15.84	2.75	66.00	3.30	79.20
48 VAC	0.25	11.83	0.77	37.07	0.86	41.18	0.48	23.23	1.43	68.64	1.79	86.06	0.36	17.42	1.65	79.20	1.87	89.76
110 VAC	0.12	12.83	0.31	33.64	0.33	36.54	0.23	25.41	0.63	68.97	0.72	78.65	0.19	20.57	0.66	72.60	0.77	84.70
240 VAC	0.08	20.06	0.17	40.13	0.18	42.77	0.18	42.24	0.39	92.40	0.44	105.60	0.15	36.96	0.42	100.32	0.47	113.52

CABLAGGIO ESTERNO/EXTERNAL WIRING



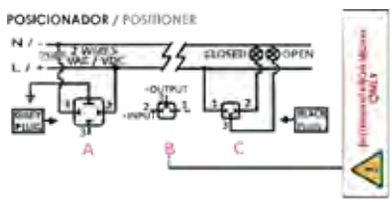
3 FILI ON - OFF/3 WIRES ON - OFF
A= Spina di alimentazione/Power supply plug
A= VAC 3 WRES (spina grigia)/VAC 3 WRES (Grey plug)
PIN 1 = Neutral + PIN 2 = Phase = Chiuso/Close
PIN 1 = Neutral + PIN 3 = Phase = Aperto/Open
A= VCC 3 WRES (spina grigia)/ VDC 3 WRES (Grey plug)
PIN 1 = (-)Negative + PIN 2 = (+) Positive = Chiuso/Close
PIN 1 = (-)Negative + PIN 3 = (+) Positive = Aperto/Open

B= Spina con contatto libero da tensione/
Volt free contact plug
PIN 1/ PIN 2 = Chiuso/Close
PIN 1/ PIN 3 = Aperto/Open



2 FILI ON - OFF/2 WIRES ON - OFF
A= Spina di alimentazione/Power supply plug
A= VAC 2 WRES (spina grigia)/VAC 2 WRES (Grey plug)
PIN 2 = (+) Positive + PIN 3 = (-) Negative =
Chiuso/Close
PIN 2 = (-)Negative + PIN 3 = (+) Positive =
Aperto/Open

B= Spina con contatto libero da tensione/
Volt free contact plug
PIN 1/ PIN 2 = Chiuso/Close
PIN 1/ PIN 3 = Aperto/Open



A= Spina di alimentazione/Power supply plug
A= VAC 2 WRES (spina grigia)/VAC 2 WRES (Grey plug)
PIN 1 = Neutral + PIN 2 = Phase =
Spina di alimentazione/Power supply plug

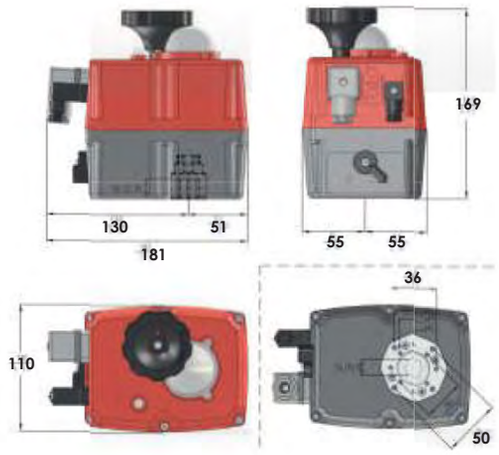
A= VAC 2 WRES (spina grigia)/ VDC 2 WRES (Grey plug)
PIN 1 = (-)Negative + PIN 2 = (+) Positive =
Spina di alimentazione/Power supply plug

B= Segnale della strumentazione/Intrumentation Signal
B= Segnale di ingresso: 4/20 mA o 0/10 V/Input signal: 4/20mA or 0/10V
PIN 1 = (-)Negative + PIN 2 = (+) Positive = Segnale di input/Input signal
PIN 1 = (-)Negative + PIN 3 = (+) Positive = Segnale di input/Input signal
C= Spina con contatto libero da tensione/Volt free contact plug
PIN 1/ PIN 2 = Chiuso/Closed
PIN 1/ PIN 3 = Aperto/Open

Le specifiche e le prestazioni dell'attuatore sono nominali e resta inteso che la sua applicazione sarà conforme agli standard del settore. Per applicazioni e condizioni di lavoro che superano le specifiche generali, contattare il distributore.
CAM SERVICE SRL non è responsabile per eventuali danni derivanti da un'errata applicazione o da norme esterne per le quali l'attuatore è stato progettato. Per il corretto calcolo del modello di attuatore da applicare in base alla coppia della valvola, tenere sempre presente che è necessario unire il coefficiente di sicurezza alla coppia nominale della valvola.

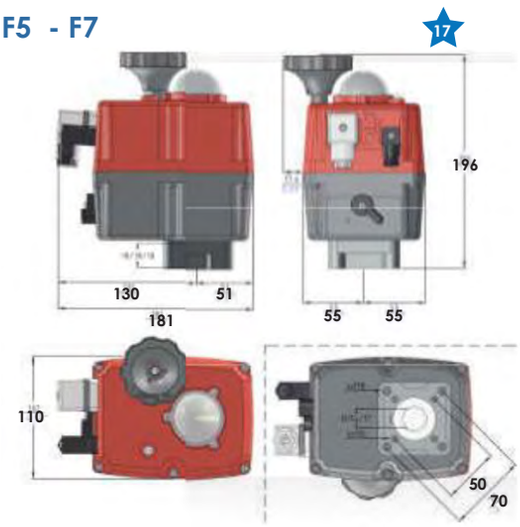
The specifications and performance of the actuator are nominal and it is understood that its application will be in accordance with industry standards. For applications and working conditions that exceed the general specifications please contact to the distributor.
CAM SERVICE SRL is not responsible for any harm resulting from the misapplication or outside norms for wich the actuator has been designed. For the correct calculation of the model of actuator to apply accordign to the valve torque, always bear in mind that you must join the safety coefficient to the nominal torque of the valve.

F3 - F5 - F4



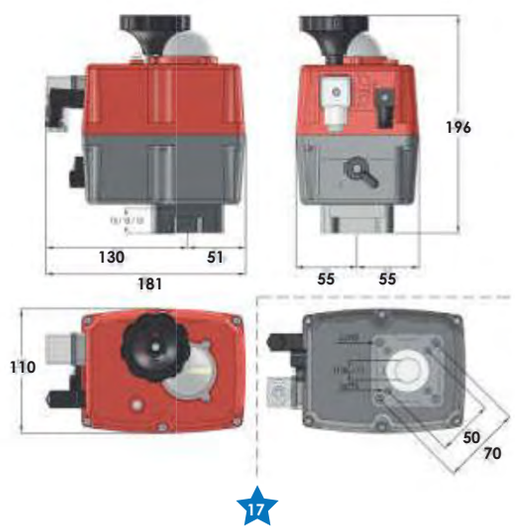
20/35

F5 - F7



85

F5 - F7



55

F07 - F010



140/300

OPZIONI DI FABBRICA/FACTORY OPTIONS

- Posizionatore digitale **DPS**: 4-20 mA, 0-10 V o 1-10 V/**DPS** digital positioner: 4-20mA, 0-10V or 1-10V
- Sistema di ritorno batteria **BRS**/**BRS** Battery system returns
- Posiziometro digitale: 1K, 5K o 10K/Digital potentiometer: 1K, 5K or 10K
- Attuatore a 3 posizioni: 0°-45°-90° o 0°-90°-180°/3 position actuator: 0°-45°-90° or 0°-90°-180°
- Spina di interfaccia/Interface plug
- Modulo di interfaccia cablato o Wifi Modbus / Modbus interface module wired or Wifi
- Modulo Bluetooth / Bluetooth module
- Altre opzioni su richiesta/Other options on request



Interface System

Utilizzando il cavo INTERFACE KIT comunichiamo con l'attuatore, leggiamo i parametri e modifichiamo la configurazione degli attuatori.

Using the INTERFACE KIT cable we communicate with the actuador, read parameters and change the actuators configuration.



Battery System Returns

Sistema BSR per i nostri modelli da 20 Nm a 85 Nm. Si tratta di un sistema di kit di sicurezza di emergenza a batteria, disponibile nei modelli S o B. Il sistema BSR per i nostri modelli 140Nm e 300Nm è lo stesso ma con una batteria di capacità maggiore.

BSR system for our 20Nm to 85Nm models. It is an emergency fail safe kit system by battery wich is either S or B models.
The BSR system for our models 140Nm and 300Nm is the same but with a bigger capacity battery.



Digital Positioner System 20-85

Posizionatore digitale per i nostri modelli da 20Nm a 85Nm.
Segnale strumentazione Segnale 4-20 mA, 0-20 mA, 0-10 V o 1-10 V.
Questo posizionatore digitale DPS è adatto per i modelli S e B.

Digital positioner for our models from 20Nm to 85Nm.
Istrumentation signal 4-20mA, 0-20mA, 0-10V or 1-10V signal.
This DPS digital positioner is suitable for S and B models.



Digital Positioner System 140-300

Posizionatore digitale per i nostri modelli da 140Nm e 300Nm.
Segnale strumentazione Segnale 4-20 mA, 0-20 mA, 0-10 V o 1-10 V.
Questo posizionatore digitale DPS è adatto per i modelli S e B.

Digital positioner for our models from 140Nm and 300Nm.
Istrumentation signal 4-20mA, 0-20mA, 0-10V or 1-10V signal.
This DPS digital positioner is suitable for S and B models.

INFOGRAPHIC BLUETOOTH TECHNOLOGY



Abbiamo introdotto nei nostri attuatori il sistema di comunicazione BLUETOOTH, per poter comunicare con gli attuatori, da qualsiasi dispositivo IOS o ANDROID. Questo sistema appare nel nostro catalogo come opzione di fabbrica.
Dal nostro telefono cellulare o tablet potremmo ordinare al nostro attuatore di aprirsi/chiudersi o fermarsi, potremmo essere informati sul suo stato, leggere parametri, conoscere errori o incidenze, ecc.
La comunicazione tra i nostri dispositivi è protetta da una password.
Tramite BLUETOOTH potremmo identificare e comunicare con un massimo di 50 dispositivi entro una distanza massima di 20 m.

We have introduced the BLUETOOTH communication system in our actuators, in order to communicate with actuators, from any IOS or ANDROID divices. This system appears in our catalogue as a factory option.
From our mobile phone or tablet we could order our actuator to open/close or stop, we could be informed about its status, read parameters, know about errors or incidences, etc.
The communication between oour devices is protected by a password.
Via BLUETOOTH we could identify and communicate with up to 50 devices within a max distance of 20m.

MODBUS TECHNOLOGY



Sistema MODBUS
- Collega e usa.
- Ogni dispositivo può essere azionato manualmente.
- Visibile dal pannello di controllo, tablet, cellulare, PC, sia all'interno che all'esterno dell'impianto.
_ Veloce e flessibile, a partire da 3 attuatori fino a 32.
- Portata fino a 1.200 m.
- Collegare localmente il dispositivo e comunicare con un cavo dati.
- Poter nominare i dispositivi, realizzare un sinottico dell'impianto, inviare mail di allarme.

Sectorización INALÁMBRICA
- Collega e usa.
- Ogni dispositivo può essere azionato manualmente.
- Visibile dal pannello di controllo, tablet, cellulare, PC, sia all'interno che all'esterno dell'impianto.
- Veloce e flessibile, a partire da 3 attuatori fino a 32.
- Da 50 m fino a 1.600 m di portata senza ripetitori.
- Ogni dispositivo emette e riceve allo stesso tempo, creando una rete di comunicazione, che consente al dispositivo di evitare muri o interfacce.
- Sotto il protocollo 802.15.4.
- Fino a 12 bande di comunicazione, che permettono il cambio di banda in caso di saturazione.

MODBUS system
- Plug and Play.
- Each device could be operated manually.
- Could be seen from the control panel, tablet, mobile, PC, either inside or outside of the plant.
_ Fast and flexible, starting by 3 actuators up to 32.
- Up to 1.200 m distance range.
- Locally connect the device and communicate with a data cable.
- Could name the devices, make a plant synoptic, send alarm mails.

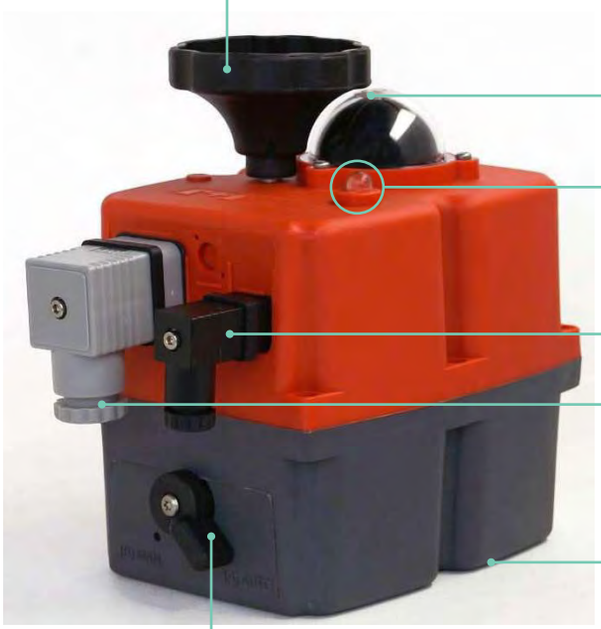
Wireless system
- Plug and Play.
- Each device could be operated manually.
- Could be seen from the control panel, tablet, mobile, PC, either inside or outside of the plant.
- Fast and flexible, starting by 3 actuators up to 32.
- From 50 m up to 1.600 m distance range without repeaters.
- Each device is emitting and receiving at the same time, creating a communication mesh, wich enables the device to avoid walls or interfaces.
- Under 802.15.4 protocol.
- Up to 12 bands of communication, wich allow a change of band in case of saturation.

CERTIFICAZIONI/CERTIFICATIONS

	PROVE/TESTS	NORMAS/STANDARD	DIRECTIVAS/DIRECTIVES
CE	Sicurezza elettrica - Electric Safety	2014/35/UE (LVD) Low Voltage Directive	UNE-EN 60204-1:2007 + Corr:2010
	Compatibilità elettromagnetica. Emissioni Electromagnetic Compatibility. Emissions	2014/30/UE (E.M.C.)	UNE-EN 61000-6-2:2006 + E:2009
	Compatibilità elettromagnetica. Immunità Electromagnetic Compatibility. Immunity		UNE-EN 61000-6-4:2007 + E:2008 + /A1:2011
	Dichiarazione originale di incorporazione di quasi-macchine Original Declaration of Incorporation of Partly Completed Machinery	2006/42/CE	Artículos/Articles: 1.1.2, 1.1.3, 1.1.5, 1.2.1, 1.2.6, 1.3.1, 1.3.7, 1.5.1, 1.6.3, 1.7.1, 1.7.3, 1.7.4
IP67	Gradi di protezione forniti dagli involucri Degrees of protection provided by enclosures	IEC 60 529:2001 (Ed.:2,1) UNE 20324:1993 + 1M:2000 + ERR:2004	2006/95/CE (Electric Safety. Low Voltage Directive. LVD) 2001/95/CE (Products General safety)
	Prova di vibrazione Vibration test	UNE-EN 60068-2-6:2008	UNE-EN 60068-2-6:2008

Models

S20, S35, S55, S85, B20, B35, B55 e B85



Models

S140, S300, B140 e B300



READ THESE INSTRUCTIONS BEFORE CONNECTING THE ACTUATOR. DAMAGE CAUSED BY NON COMPLIANCE OF THESEINSTRUCTIONS IS NOT COVERED BY OUR WARRANTY.

J4C Electric actuators operate with the use of live electricity. It is recommended that only qualified electrical engineers be allowed to connect or adjust these actuators.

1-VOLTAGE TO BE CONNECTED

All our actuators model S20 to S300 are ready to work from 24-240VDC/VAC.
All our actuators model B20 to B300 are ready to work at 12 VDC/VAC ONLY.

2 - ELECTRICAL CONNECTORS

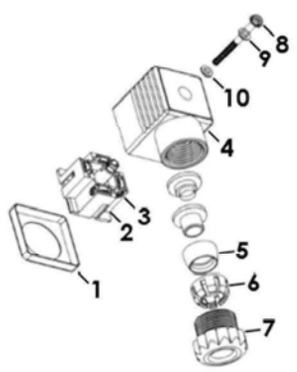
Warning: before connecting ensure that the voltage to be applied to the actuators is within the range shown on the identification label. The supplied electrical connectors, used to connect to the actuator are DIN plugs. Ensure the diameter of cable to be used conforms to the maximum and minimum requirements of the DIN plugs to maintain water tightness **(fig. 1)**.

CONNECTOR	SMALL BLACK		BIG GREY OR BLACK	
	DIN43650/C		EN175301-803 FORM A	
MODEL	min Ø	máx. Ø	min Ø	máx. Ø
J4C 20 a 300	5 mm	6 mm	8 mm	10.5 mm

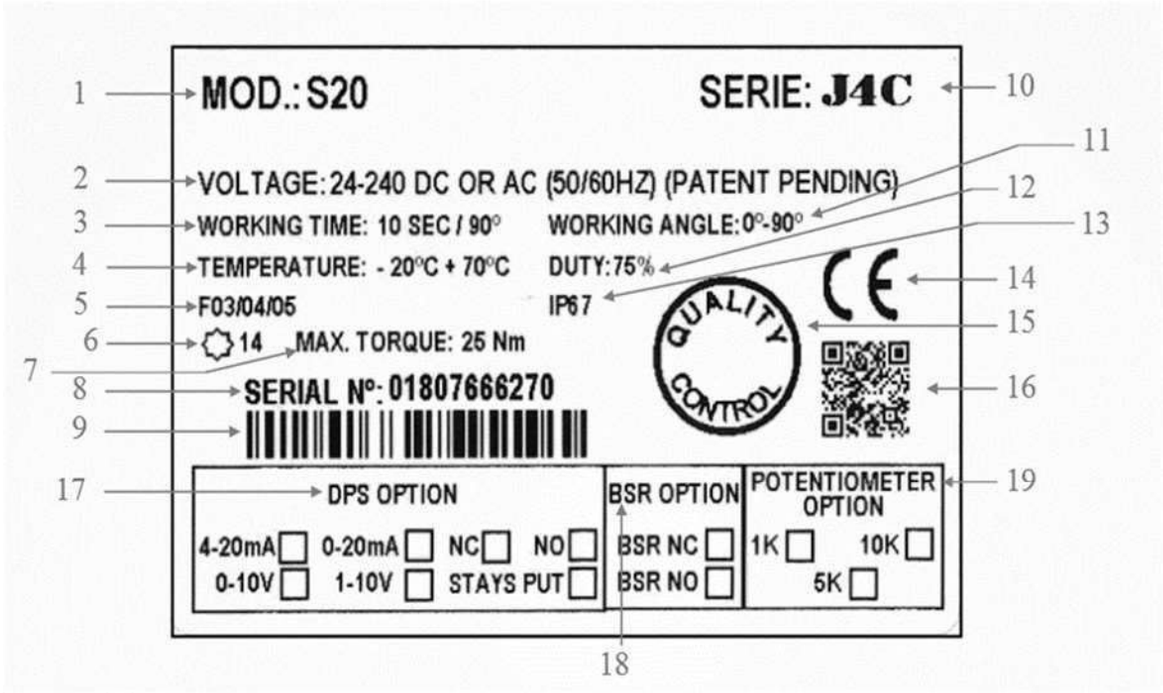
(fig. 1)

Warning: Ensure that the square rubber seal is in place when fixing each DIN plug to the actuator. Failure to do so cloud allow water ingress and damage caused by this installation error will invalidate any warranty. The DIN plugs are fixed to their respective bases on the actuators housing with a screw. Do not over tight the screw **(8)** when assembling (Max. 0.5Nm).

1 Gasket
2 Terminal strip
3 Cable fixing screws
4 Housing
5 Washer
6 Grommet
7 Gland-nut
8 Fixing screw
9 Washer
10 Gasket



3 - ID ACTUATOR LABEL



1 Actuator model
2 Voltage to be connected
3 Time the actuator need to run to the indicated degrees
4 Actuator ready to bear between -20°C y + 70°C
5 Plate to fix the valve to the actuator, following ISO 5211
6 Female output drive size, following DIN3337
7 Maximum torque break
8 Actuator serial number
9 Bar code of the serial number
10 Actuator series
11 Degree of protection
12 Working angle
13 Duty: 75%
(Example: S20 Model - Maneuver time = 10 sec. Time between maneuvers = 3.3 sec.)
14 Actuator with the IP67 protection
15 Actuator with the CE certificate
16 Quality Control Conformity
17 DPS options
18 BSR options
19 Potentiometer options

4 - LOCAL VISUAL POSITION INDICATOR

All **J4C** actuators are supplied with a local visual position indicator comprises a black base with a yellow insert that shows, both the position and direction of rotation **(Fig.6)** The open and close positions have the following logos molded into the top cover OPEN 90 and CLOSE 0.
Opening= ⋐ Closing = ⋑



Fig. 6
0 = CLOSE

Fig. 6
90 = OPEN

OTHER OPTIONS LOCAL VISUAL POSITION INDICATOR



TWO YELLOW INDICATORS:
For 3 way ball valve, **L** port.



TWO YELLOW INDICATORS:
For 3 way ball valve, **T** port.

5 - EMERGENCY MANUAL OVERRIDE FACILITY

The **J4C** has 2 operating modes, automatic and manual, the required mode is selected by using a lever on the lower half of the actuator housing **(fig. 7)**.



The 2 positions are marked:
AUTO = Automatic operation
MAN = Manual operation

Warning: Do not remove the selector lever securing screw, as this will allow its internal mechanism to become loose and will cause irreparable damage to the actuator's gearbox. Removing this screw will invalidate the warranty.

When **"AUTO"** position in selected:
The hand wheel, of models 20, 35, 55 and 85 rotates automatically, is it very important not to block it, otherwise the actuator could suffer unrepairable damages.



When **"MAN"** function is selected:
1. The electronic system cuts the power to the motor after a few minutes.
2. The mechanical connection between the motor and the output shaft is disconnected.
3. The desired position can be achieved by using the hand wheel.
4. There are two ways to re-active the motor after being ISOlated whilst in "MAN" position:
   a) With the actuator in "MAN" function, turn the hand wheel to one of the end positions (open or close). If the end position switch is activated the motor stops. Now change the manual override form "MAN" to "AUTO", and the actuator is ready to operate automatically again.
   b) Change from "MAN" mode to "AUTO". Deactivate the supply voltage for a few seconds witch resets the actuator and it could operate automatically again.

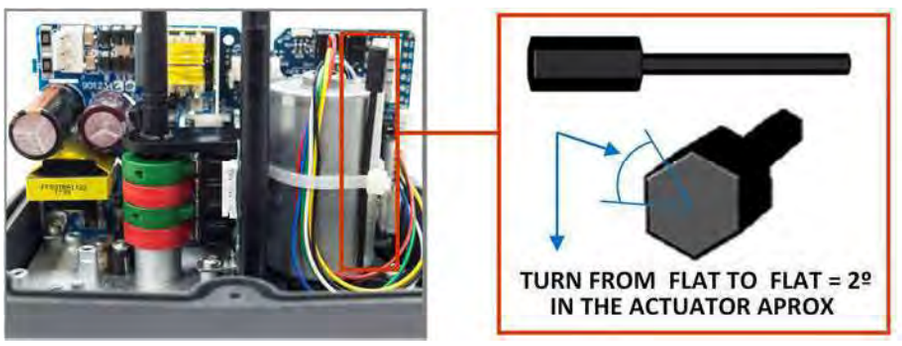


Under normal conditions, the actuator may only be operated with the closed cover.

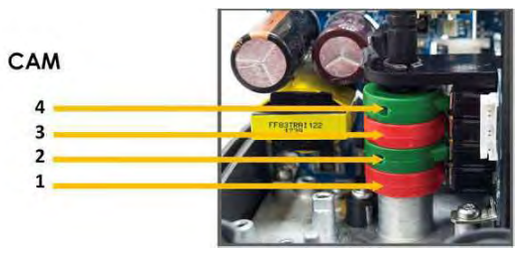
If work is performed on the actuator with the removed cover, the supply and control voltage must first be disconnected. Adjustments, which need to be done in the energized state, should be carried out with special insulated tools.

How to do it: Tolling: One special plastic wrench (is supplied together with the actuator). The wrench is tired together with the motor by using one plastic clamp.

To move the cams, introduce the special plastic wrench in the hole of the cam and turn it round (see both options on the enclosed pictures).



POSITION CF THE CAM




Cams 1 and 3


Cams 2 and 4

1) Cam 1 is to adjust the close position
2) Cam 2 is to adjust the open position
3) Cam 3 is to adjust the close position confirmation

To ensure that the position confirmation works, adjust the confirmation cams (3 & 4) 3° (+/-1°) before the motor shop.

The standard actuators are always adjusted at 0° (close) and 90°.



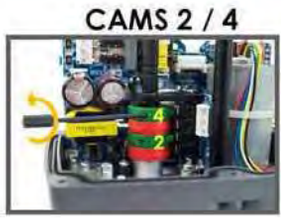
1. To adjust the close position at less than 0°
Turn the wrench to clockwise direction - cams 1 and 3.
The cam 3 should press the lever of the micro switch
a bit earlier than the cam 1.



2. To adjust the close position at more than 0°
Turn the wrench to anti-clockwise direction - cams 1 and 3.
The cam 3 should press the lever of the micro switch
a bit earlier than the cam 1.



3. To adjust the open position to more than 90°
Turn the wrench to anti-clockwise direction - cams 2 and 4.
The cam 4 should press the lever of the micro switch
a bit earlier than the cam 2.



4. To adjust the open position to less than 90°
Turn the wrench to clockwise direction - cams 2 and 4.
The cam 4 should press the lever of the micro switch
a bit earlier than the cam 2.



TABLE OF CONSUMPTIONS

J4C 20 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE 20Nm		MAX. TORQUE BREAK 25Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B20	0,75	9,06	1,80	21,60	1,95	23,36
24 VDC	S20	0,45	10,77	0,90	21,49	0,97	23,39
48 VDC	S20	0,21	9,93	0,42	20,38	0,46	22,07
110 VDC	S20	0,07	8,00	0,13	14,30	0,14	15,70
12 VAC	B20	1,04	12,51	1,85	22,18	2,28	27,32
24 VAC	S20	0,59	14,20	1,12	26,77	1,28	30,62
48 VAC	S20	0,34	16,37	0,69	33,16	0,75	36,22
110 VAC	S20	0,14	15,73	0,27	29,52	0,30	32,67
240 VAC	S20	0,10	23,76	0,15	36,43	0,16	39,07

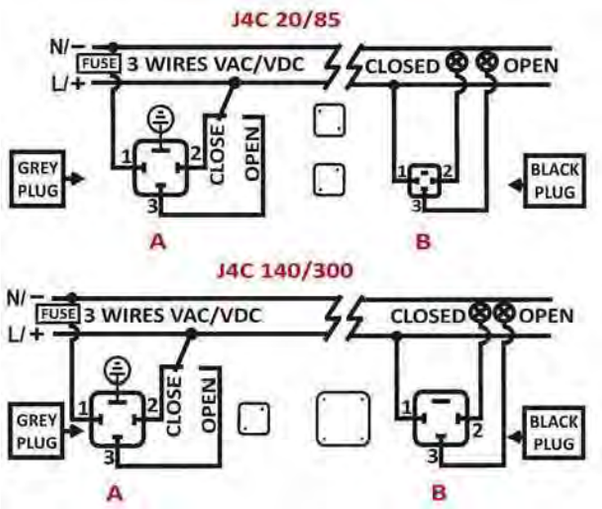
J4C 35 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE 35Nm		MAX. TORQUE BREAK 38Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B20	0,75	9,06	2,38	28,62	2,62	31,50
24 VDC	S20	0,45	10,77	1,28	30,78	1,37	32,79
48 VDC	S20	0,21	9,93	0,56	26,72	0,59	28,20
110 VDC	S20	0,07	7,70	0,17	18,90	0,18	20,10
12 VAC	B20	1,04	12,51	2,75	33,00	3,19	38,28
24 VAC	S20	0,59	14,20	1,58	37,80	1,67	40,13
48 VAC	S20	0,34	16,37	0,92	44,04	0,99	47,31
110 VAC	S20	0,14	15,73	0,36	39,45	0,38	41,87
240 VAC	S20	0,10	23,76	0,19	45,41	0,20	47,52

J4C 55 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE 55Nm		MAX. TORQUE BREAK 60Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B20	0,70	8,45	3,04	36,43	3,42	41,05
24 VDC	S20	0,42	10,19	1,55	37,17	1,63	39,02
48 VDC	S20	0,20	9,72	0,61	29,25	0,67	32,31
110 VDC	S20	0,07	7,50	0,19	20,80	0,21	23,20
12 VAC	B20	0,94	11,30	3,43	41,18	3,78	45,41
24 VAC	S20	0,58	13,89	1,87	44,88	1,98	47,52
48 VAC	S20	0,33	15,73	1,10	52,80	1,21	58,29
110 VAC	S20	0,14	15,73	0,40	43,80	0,43	46,95
240 VAC	S20	0,09	22,70	0,20	47,52	0,21	50,16

J4C 85 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE -85Nm		MAX. TORQUE BREAK -90Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B20	0,62	7,42	2,11	25,34	2,28	27,32
24 VDC	S20	0,36	8,55	1,08	25,87	1,22	29,30
48 VDC	S20	0,17	8,24	0,48	22,92	0,53	25,56
110 VDC	S20	0,05	5,80	0,14	15,20	0,16	17,90
12 VAC	B20	0,81	9,69	2,38	28,51	2,65	31,81
24 VAC	S20	0,50	11,88	1,36	32,74	1,50	36,01
48 VAC	S20	0,25	11,83	0,77	37,07	0,86	41,18
110 VAC	S20	0,12	12,83	0,31	33,64	0,33	36,54
240 VAC	S20	0,08	20,06	0,17	40,13	0,18	42,77

J4C 140 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE 140Nm		MAX. TORQUE BREAK 170Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B140	1,93	23,10	4,73	56,76	5,39	64,68
24 VDC	S140	0,66	15,84	2,15	51,48	2,53	60,72
48 VDC	S140	0,30	14,25	0,88	42,24	1,10	52,80
110 VDC	S140	0,10	10,89	0,28	30,25	0,39	42,35
12 VAC	B140	2,75	33,00	6,60	79,20	8,47	101,64
24 VAC	S140	0,83	19,80	2,59	62,04	3,30	79,20
48 VAC	S140	0,48	23,23	1,43	68,64	1,79	86,06
110 VAC	S140	0,23	25,41	0,63	68,97	0,72	78,65
240 VAC	S140	0,18	42,24	0,39	90,40	0,44	105,60

J4C 300 CONSUMPTION		UNLOAD		MAX. OPERATIONAL TORQUE 300Nm		MAX. TORQUE BREAK 350Nm	
Voltage	Model	A	W	A	W	A	W
12 VDC	B300	1,32	15,84	5,17	62,04	5,45	65,34
24 VDC	S300	0,50	11,88	2,31	55,44	2,70	64,68
48 VDC	S300	0,22	10,56	1,10	52,80	1,19	57,02
110 VDC	S300	0,09	9,68	0,33	36,30	0,39	42,35
12 VAC	B300	1,98	23,76	7,26	87,12	8,64	103,62
24 VAC	S300	0,66	15,84	2,75	66,00	3,30	79,20
48 VAC	S300	0,36	17,42	1,65	79,20	1,87	89,76
110 VAC	S300	0,19	20,57	0,66	72,60	0,77	84,70
240 VAC	S300	0,15	36,96	0,42	100,32	0,47	113,52



3 WIRES ON - OFF

A = Power supply plug

A: VAC 3 WIRES (Grey plug)

PIN 1 = Neutral + PIN 2 = Phase = Close

PIN 1 = Neutral + PIN 3 = Phase = Open

A: VDC 3 WIRES (Grey plug)

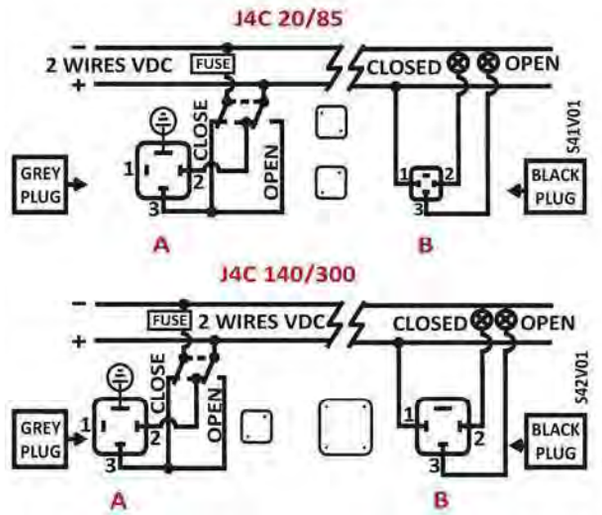
PIN 1 = (-) Negative + PIN 2 = (+) Positive = Close

PIN 1 = (-) Negative + PIN 3 = (+) Positive = Close

B = Volt free contact plug

PIN 1 / PIN 2 = Close

PIN 1 / PIN 3 = Open



2 WIRES ON - OFF

A = Power supply plug

A: VDC 2 WIRES (Grey plug)

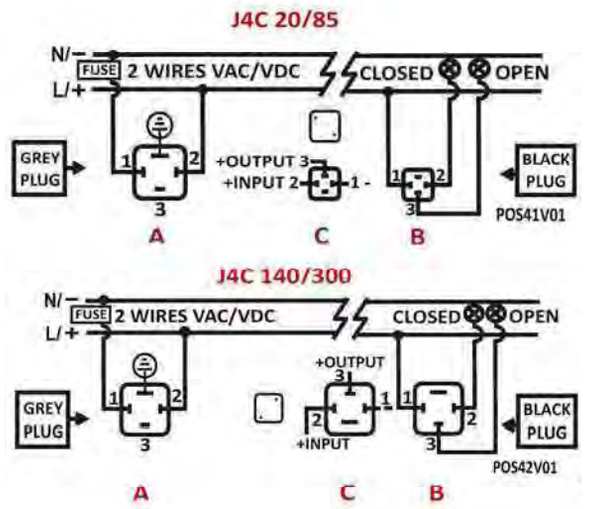
PIN 2 = (+) Positive + PIN 3 = (-) Negative = Close

PIN 2 = (-) Negative + PIN 3 = (+) Positive = Open

B = Volt free contact plug

PIN 1 / PIN 2 = Close

PIN 1 / PIN 3 = Open



POSITIONER

A = Power supply plug

A: VAC 2 WIRES (Grey plug)

PIN 1 = Neutral + PIN 2 = Phase = Power supply plug

A: VDC 2 WIRES (Grey plug)

PIN 1 = (-) Negative + PIN 2 = (+) Positive = Power supply plug

B = Volt free contact plug

PIN 1 / PIN 2 = Closed

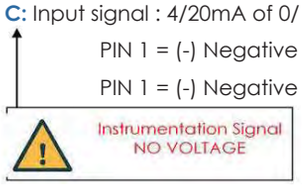
PIN 1 / PIN 3 = Open

C = Instrumentation Signal

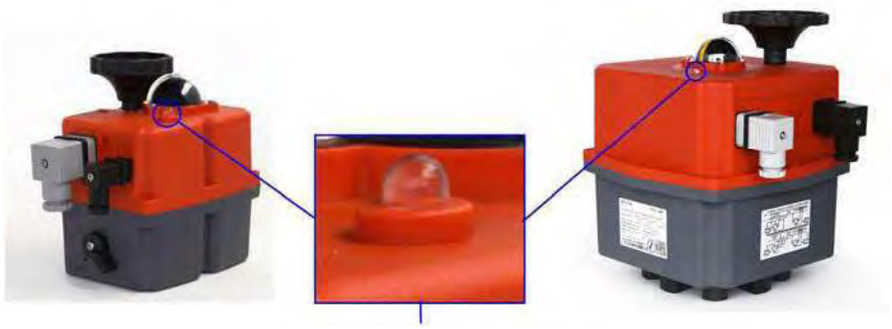
C: Input signal : 4/20mA of 0/10V

PIN 1 = (-) Negative + PIN 2 = (+) Positive = Input signal

PIN 1 = (-) Negative + PIN 3 = (+) Positive = Output signal



The LED light provides visual communication between the actuator and the user.
The current operational status is shown by different LED colors.



VISUAL CONTROL OF OPERATION

ON-OFF ACTUATOR	ACTUATOR OPERATIONAL STATUS
WITHOUT POWER SUPPLY	
IN OPEN POSITION	
IN CLOSE POSITION	
OPENING	
CLOSING	
TORQUE LIMITER FUNCTION ON, MOVING FROM CLOSE TO OPEN	
TORQUE LIMITER FUNCTION ON, MOVING FROM OPEN TO CLOSE	
ACTUATOR IN MANUAL MODE (EXCEEDED TIME)	
THE ACTUATOR HAS STOPPED (NO CLOSE/NO OPEN POSITION)	
IN MIDDLE POSITION	

ACTUATOR WITH BSR	ACTUATOR OPERATIONAL STATUS
WITHOUT POWER SUPPLY	
IN OPEN POSITION	
IN CLOSE POSITION	
OPENING	
CLOSING	
TORQUE LIMITER FUNCTION ON, MOVING FROM CLOSE TO OPEN	
TORQUE LIMITER FUNCTION ON, MOVING FROM OPEN TO CLOSE	
ACTUATOR IN MANUAL MODE (EXCEEDED TIME)	
THE ACTUATOR HAS STOPPED (NO CLOSE/NO OPEN POSITION)	
IN MIDDLE POSITION	
ACTUATOR WITHOUT POWER, WORKING WITH THE BSR NO SYSTEM. MAX. 3 MIN., (LED OFF)	
ACTUATOR WITHOUT POWER, WORKING WITH THE BSR NC SYSTEM. MAX. 3 MIN., (LED OFF)	
BATTERY PROTECTION. DANGER, THE BATTERY NEEDS RECHARGING. BSR BLOCKED.	

WITHOUT POWER SUPPLY	
MOTOR STEP	
OPENING	
CLOSING	
SELF ADJUSTING CONFIGURATION	
TORQUE LIMITER FUNCTION ON, MOVING FROM CLOSE TO OPEN	
TORQUE LIMITER FUNCTION ON, MOVING FROM OPEN TO CLOSE	
INSTRUM. SIGNAL OVERPASSED. BLOCKED ACTUATOR. NEED A RE-SET	
ACTUATOR IN MANUAL MODE (EXCEEDED TIME)	
NO INSTRUM. SIGNAL PICK-UP. 4-20 mA AND 1-10V ONLY	



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Anticorrosive polyamide
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S20	B20
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V **ONLY**
OPERATION TIME UNLOAD	9 SEC./90°	9 SEC./90°
MAXIMUM TORQUE BREAK	25 Nm/221 lb/in	25 Nm/221 lb/in
MAXIMUM OPERATIONAL TORQUE	20 Nm/177 lb/in	20 Nm/177 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°C +158°F
WEIGHT	1,8 Kg	1,8 Kg

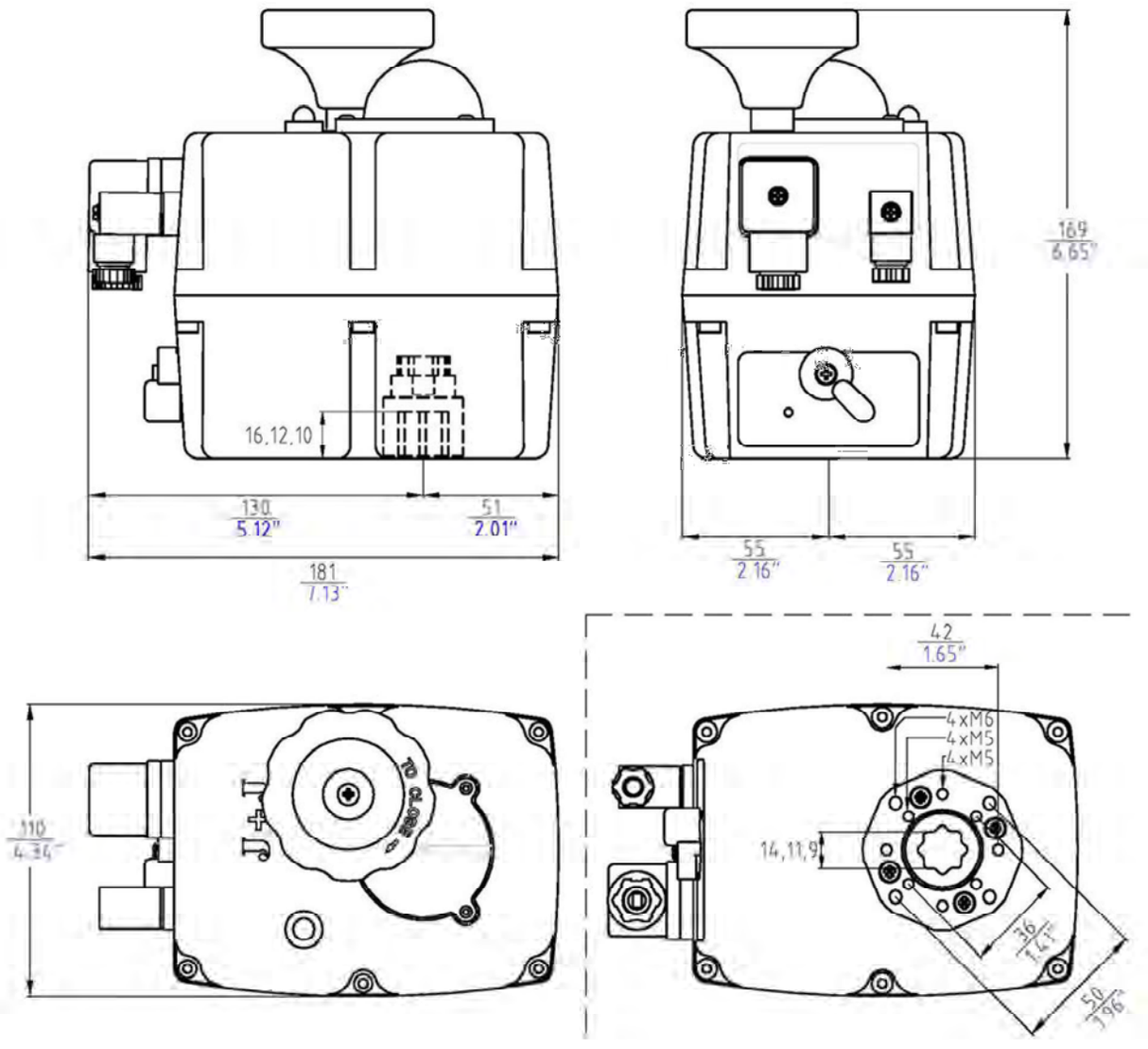
V

VALVE CONNECTION
ISO 5211 Plate: F03/F04/F05
DIN 3337 Female output drive: *14 mm

Options:
DIN 3337 Female output drive: *9 or *11 mm
F05 to F07 Conversion Kit with *17 mm output

0

OPTIONS
- J4C 20/85 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 20/85 BSR emergency fail safe kit system by battery


16.12.10
130
5.12"
51
2.01"
181
7.13"
169
6.65"
55
2.16"
55
2.16"
110
4.34"
TO CLOSE
42
1.65"
4xM6
4xM5
4xM5
14,11,9
36
1.41"
50
1.96"



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Stainless steel
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S35	B35
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V **ONLY**
OPERATION TIME UNLOAD	9 SEC./90°	9 SEC./90°
MAXIMUM TORQUE BREAK	38 Nm/359,3 lb/in	38 Nm/359,3 lb/in
MAXIMUM OPERATIONAL TORQUE	35 Nm/309 lb/in	35 Nm/309 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
WEIGHT	1,9 Kg	1,9 Kg

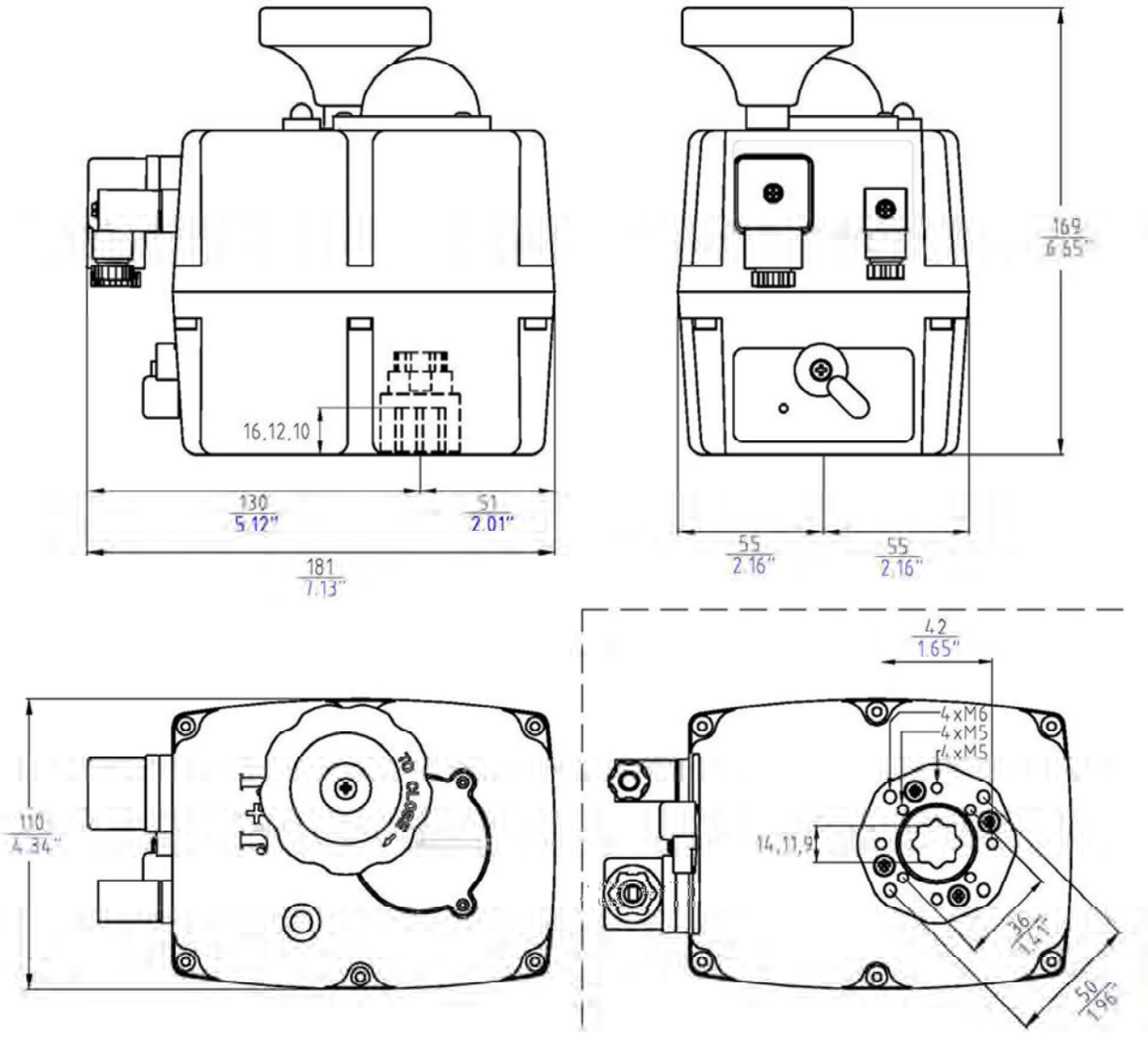
V

VALVE CONNECTION
ISO 5211 Plate: F03/F04/F05
DIN 3337 Female output drive: *14 mm

Options:
DIN 3337 Female output drive: *9 or *11 mm
F05 to F07 Conversion Kit with *17 mm output

O

OPTIONS
- J4C 20/85 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 20/85 BSR emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K OR 10 K
- 3 POSITION ACTUATOR: O°-45°-90° OR 0°-90°-180°


16.12.10
130
5.12"
51
2.01"
181
7.13"
169
6.65"
55
2.16"
55
2.16"
110
4.34"
42
1.65"
4xM6
4xM5
4xM5
14,11,9
36
1.41"
50
1.96"



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Stainless steel
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S55	B55
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V **ONLY**
OPERATION TIME UNLOAD	13 SEC./90°	13 SEC./90°
MAXIMUM TORQUE BREAK	60 Nm/530 lb/in	60 Nm/530 lb/in
MAXIMUM OPERATIONAL TORQUE	55 Nm/486 lb/in	55 Nm/486 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
WEIGHT	2,4 Kg	2,4 Kg

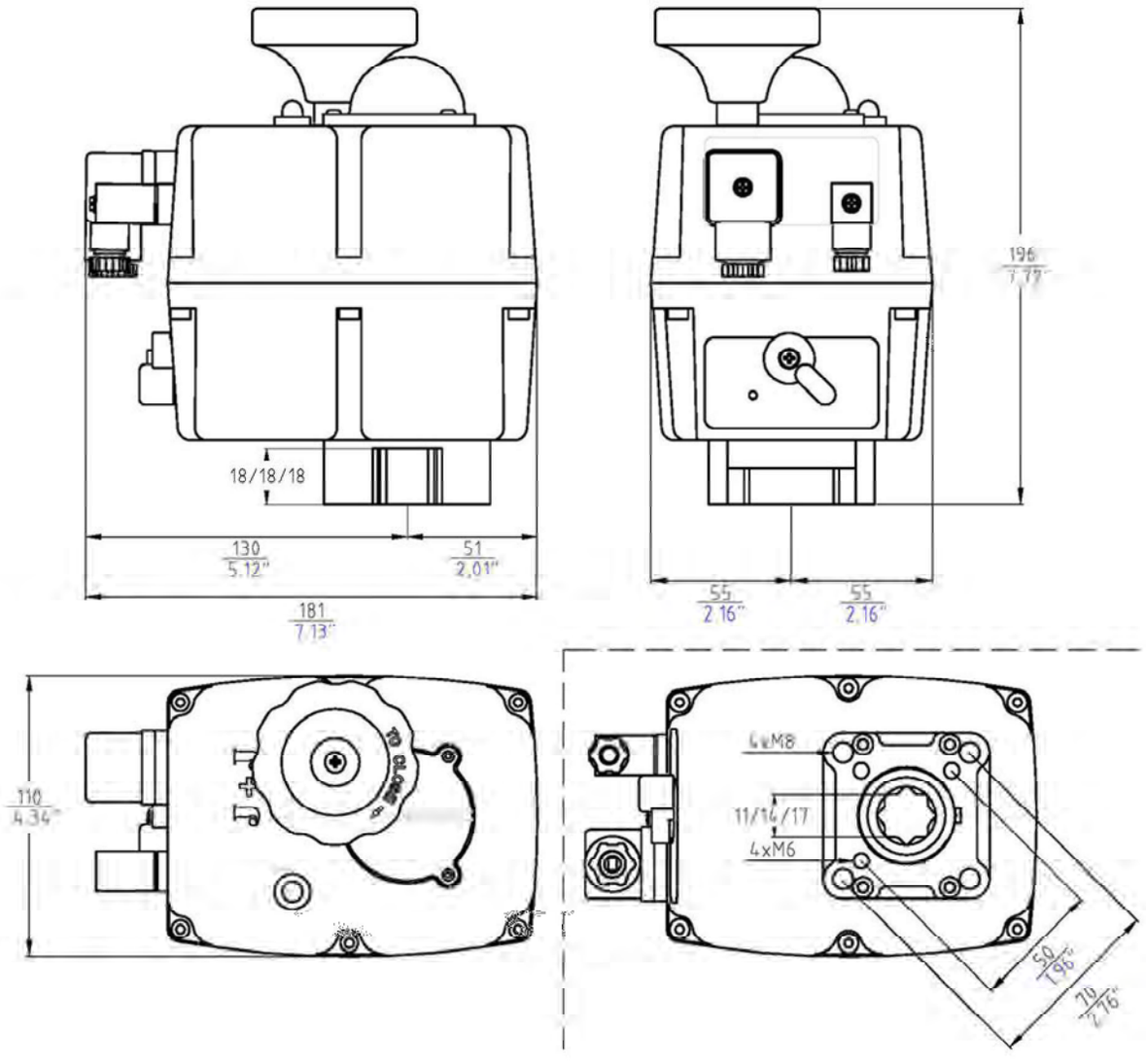
V

VALVE CONNECTION
ISO 5211 Plate: F05/F07
DIN 3337 Female output drive: *17 mm

Options:
DIN 3337 Female output drive: *11 or *14 mm

0

OPTIONS
- J4C 20/85 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 20/85 BSR emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K OR 10K
- 3 POSITION ACTUATOR: O°-45°-90° OR 0°-90°-180°


18/18/18
130
5.12"
51
2,01"
181
7.13"
196
7.77"
55
2.16"
55
2.16"
110
4.34"
6xM8
11/14/17
4xM6
50
1.96"
70
2.76"



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Stainless steel
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S85	B85
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V **ONLY**
OPERATION TIME UNLOAD	29 SEC./90°	29 SEC./90°
MAXIMUM TORQUE BREAK	90 Nm/796,3 lb/in	90 Nm/796,3 lb/in
MAXIMUM OPERATIONAL TORQUE	85 Nm/752 lb/in	85 Nm/752 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
WEIGHT	3 Kg	3 Kg

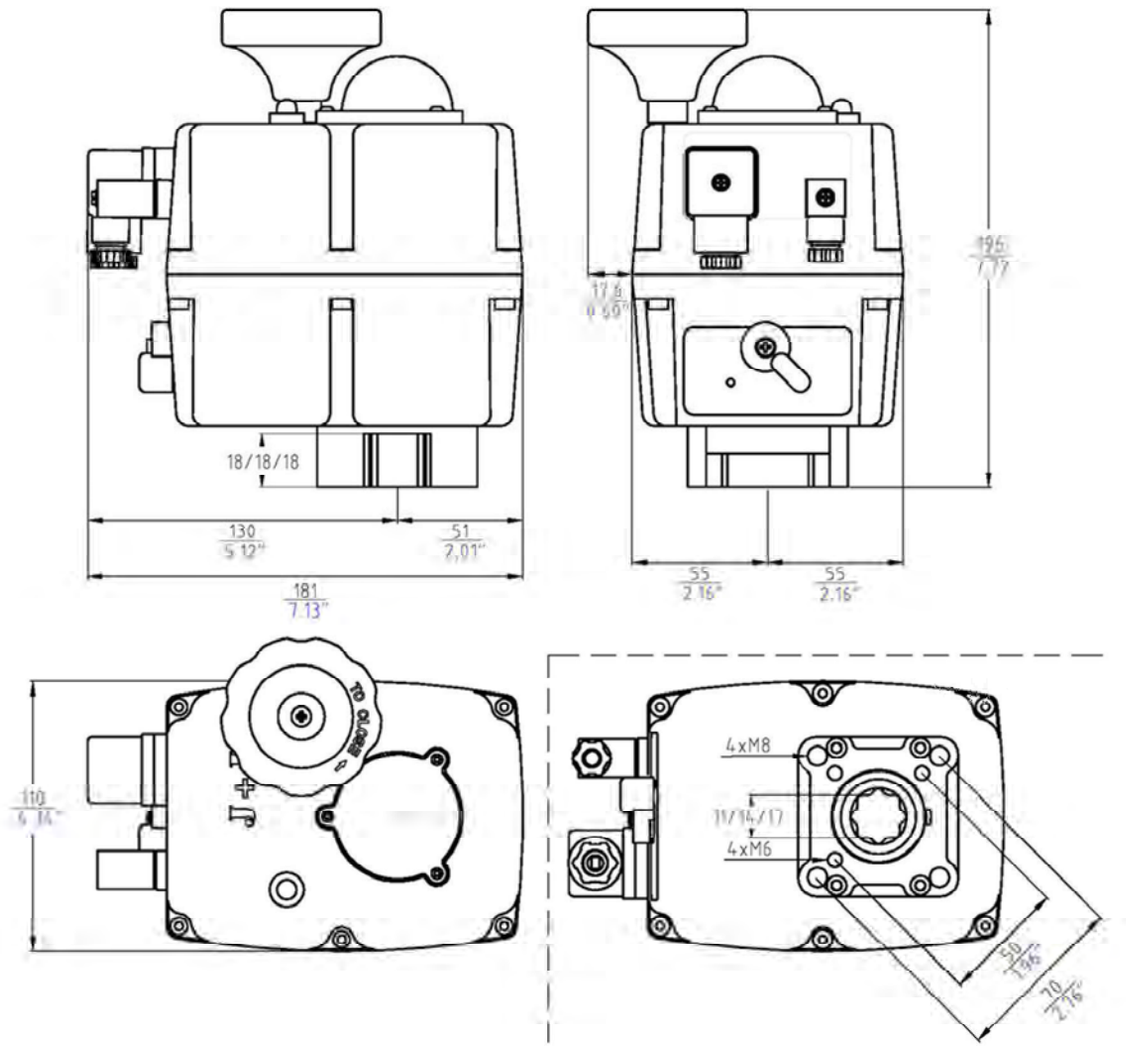
V

VALVE CONNECTION
ISO 5211 Plate: F05/F07
DIN 3337 Female output drive: *17 mm

Options:
DIN 3337 Female output drive: *11 or *14 mm

0

OPTIONS
- J4C 20/85 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 20/85 BSR emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K OR 10K
- 3 POSITION ACTUATOR: O°-45°-90° OR 0°-90°-180°


18/18/18
130
5.12"
51
2,01"
181
7.13"
17.6
0.69"
196
7.7
55
2.16"
55
2.16"
110
4.34"
4xM8
11/14/17
4xM6
50
1.96"
70
2.76"

J4C 140 ON - OFF INFORMATION



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Stainless steel
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S140	B140
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V **ONLY**
OPERATION TIME UNLOAD	34 SEC./90°	34 SEC./90°
MAXIMUM TORQUE BREAK	170 Nm/1504,5 lb/in	170 Nm/1504,5 lb/in
MAXIMUM OPERATIONAL TORQUE	140 Nm/1239 lb/in	140 Nm/1239 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
WEIGHT	5,2 Kg	5,2 Kg

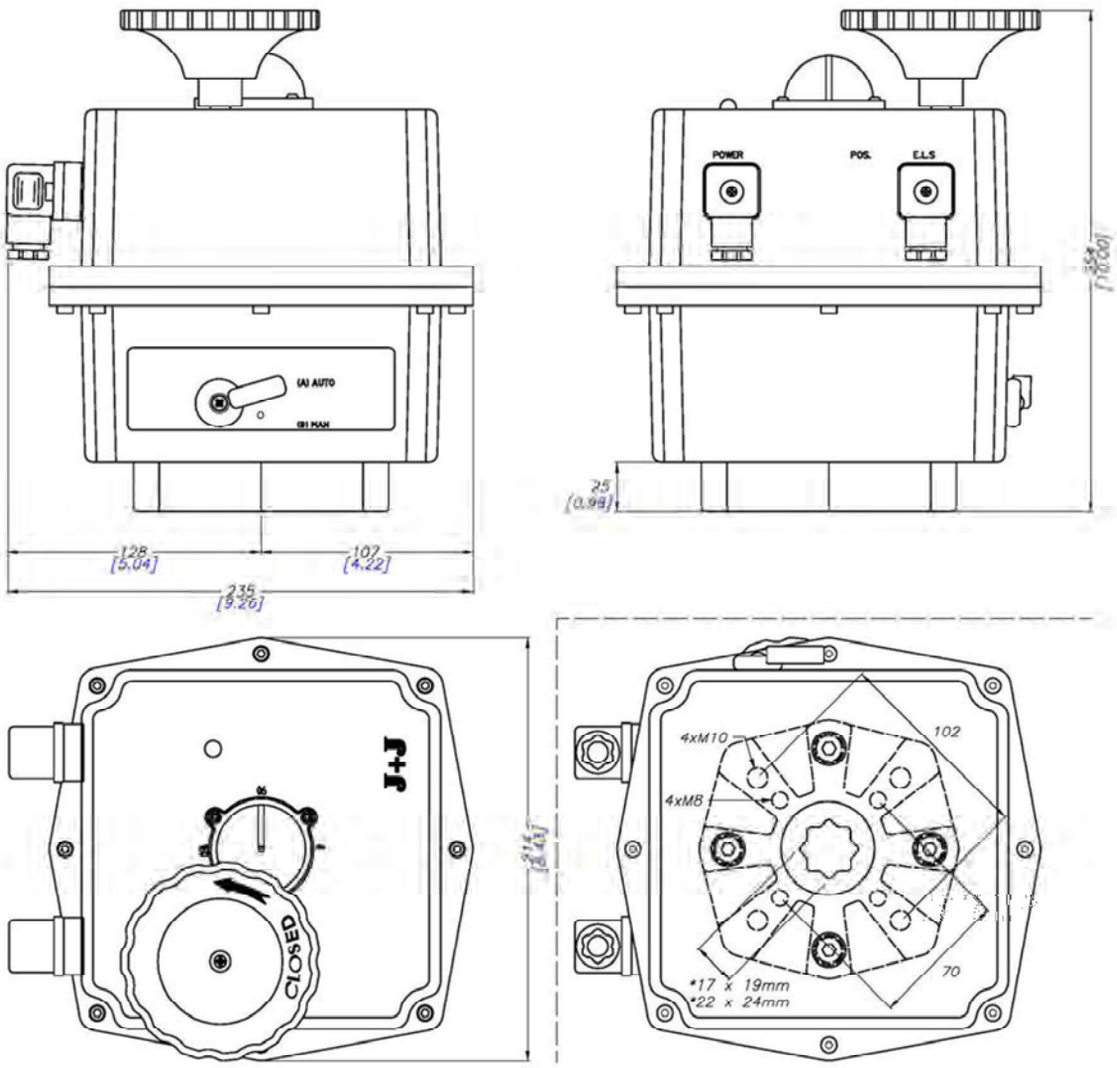
V

VALVE CONNECTION
ISO 5211 Plate: F07/F10
DIN 3337 Female output drive: *22 mm

Options:
ISO 5211 Plate: F12
DIN 3337 Female output drive: *17 mm

0

OPTIONS
- J4C 140/300 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 140/300 BSR emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K OR 10K
- 3 POSITION ACTUATOR: O°-45°-90° OR 0°-90°-180°


POWER
POS.
E.L.S
(A) AUTO
128
[5.04]
107
[4.22]
235
[9.26]
25
[0.98]
J+J
CLOSED
4xM10
4xM8
102
70
•17 x 19mm
•22 x 24mm

J4C 300 ON - OFF INFORMATION



C

GENERAL CHARACTERISTICS
Housing: Anticorrosive polyamide (lid & body)
Main external shaft: Stainless steel
External screws: Stainless steel
Gears: Steel and polyamide
Visual position indicator: Polyamide
Dome: Polycarbonate
Adjustable internal cams: Polyamide
Electric motor: 24VDC Brushless motor
Insulation: Class B
(IEC 60034) Service: S4

DATASHEET

MODEL	S300	B300
VOLTAGE VDC/VAC 50/60HZ - 0/+5%	24 A 240 (PATENT PENDING)	12 V ONLY
OPERATION TIME UNLOAD	58 SEC./90°	58 SEC./90°
MAXIMUM TORQUE BREAK	350 Nm/3097,5 lb/in	350 Nm/3097,5 lb/in
MAXIMUM OPERATIONAL TORQUE	300 Nm/2655 lb/in	300 Nm/2655 lb/in
DUTY RATING	75%	75%
MAX. WORKING ANGLE	0° TO 270°	0° TO 270°
LIMIT SWITCH	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)	4 SPST NO micro (2 MOTOR STOP AND 2 CONFIRMATIONS)
AUTOMATIC HEATER	3,5 W	3,5 W
BIG PLUG	EN175301-803 FORM A	EN175301-803 FORM A
SMALL PLUG	DIN43650/C	DIN43650/C
PROTECTION IEC 60529 RATING	IP67	IP67
TEMPERATURE	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
WEIGHT	5,2 Kg	5,2 Kg

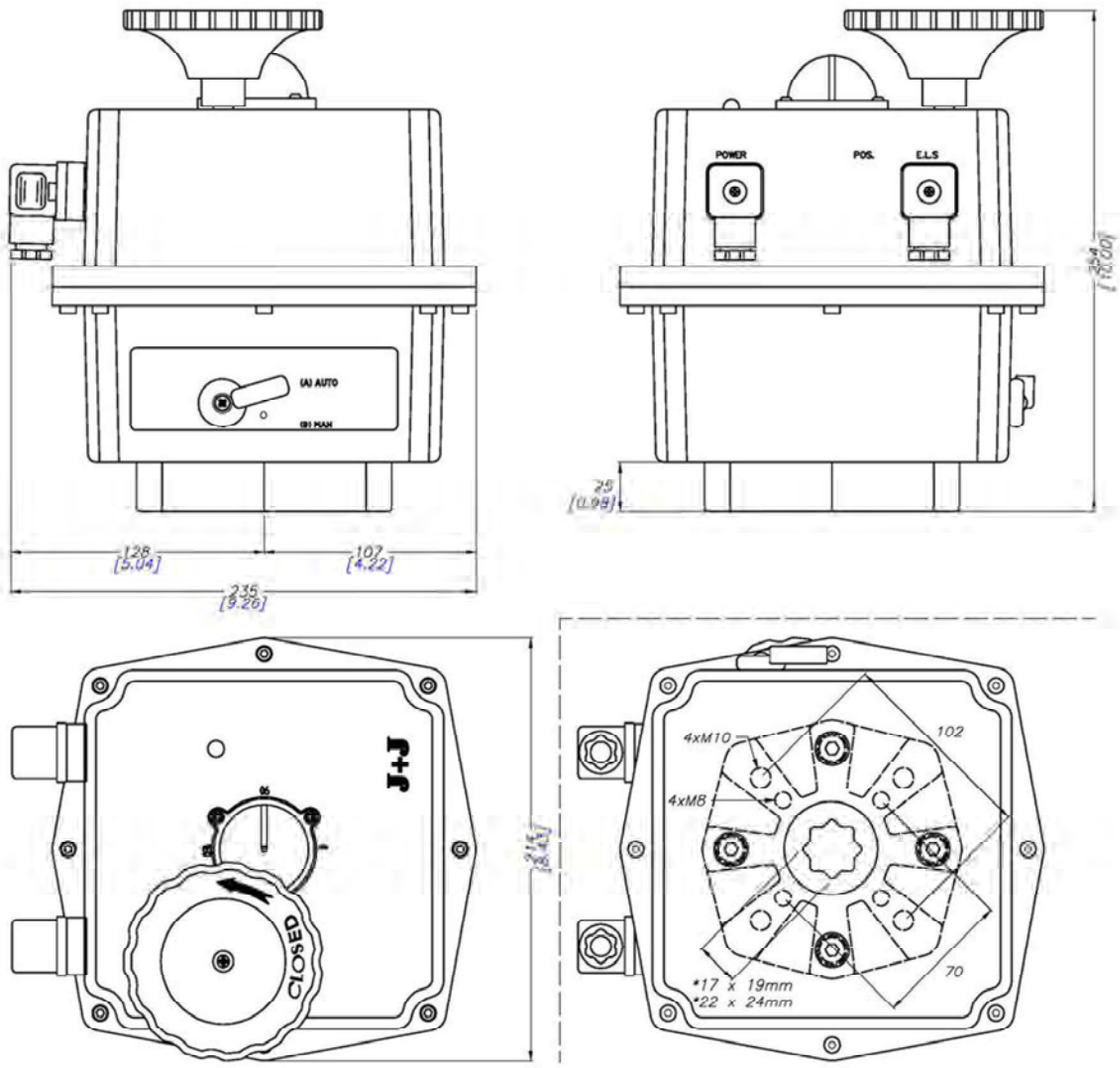
V

VALVE CONNECTION
ISO 5211 Plate: F07/F10
DIN 3337 Female output drive: *22 mm

Options:
ISO 5211 Plate: F12
DIN 3337 Female output drive: *17 mm

O

OPTIONS
- J4C 140/300 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V
- J4C 140/300 BSR emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K OR 10K
- 3 POSITION ACTUATOR: O°-45°-90° OR 0°-90°-180°

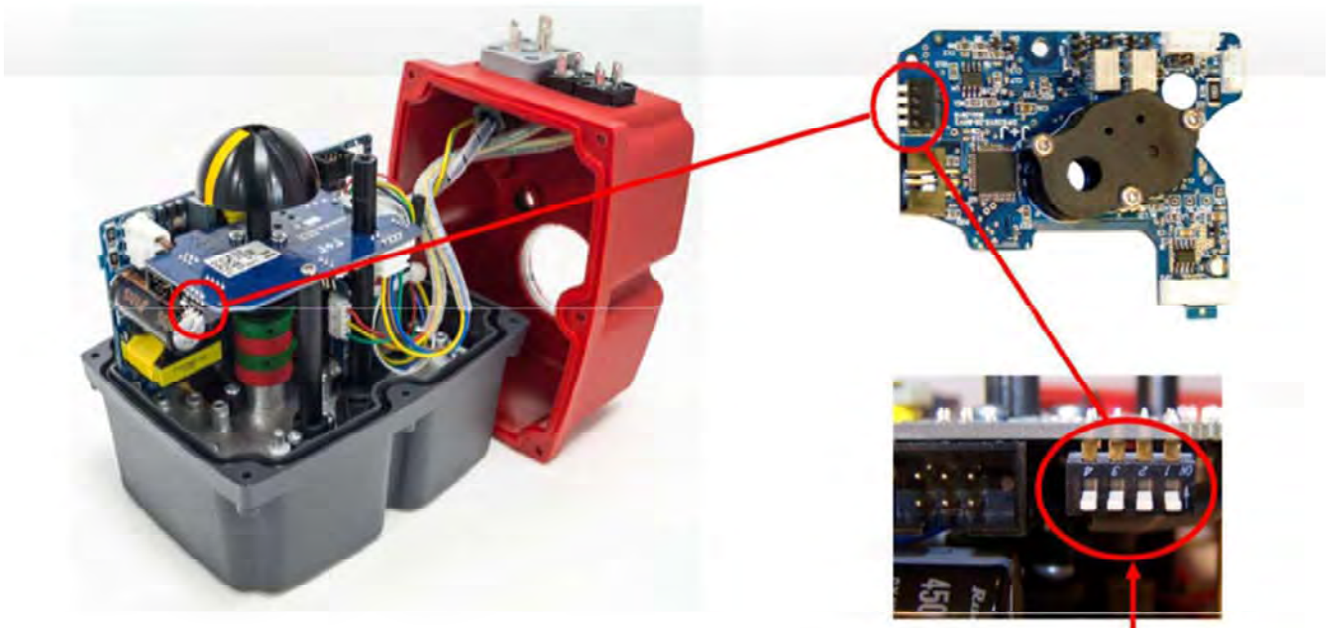

POWER
POS.
E.L.S
(A) AUTO
(M) MAN
128
[5.04]
107
[4.22]
235
[9.26]
25
[0.98]
354
[13.94]
CLOSED
J+J
215
[8.47]
4xM10
4xM8
102
70
*17 x 19mm
*22 x 24mm

J4C 20/35/55/85 POSITIONER INFORMATION (DPS)

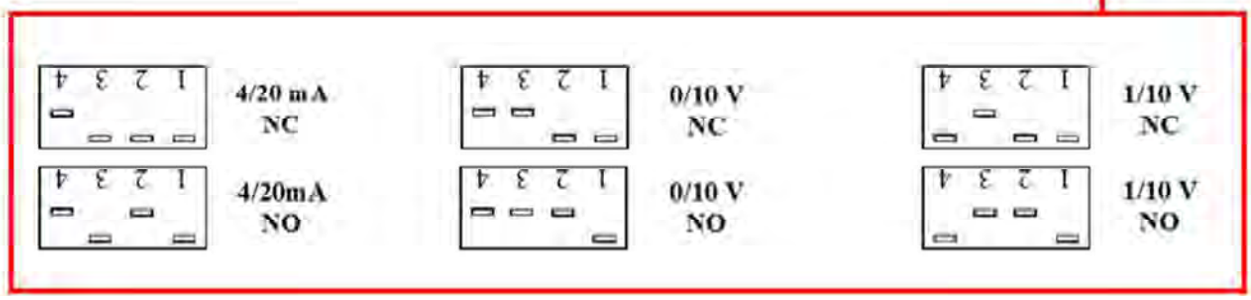


SPECIFICATIONS				
MODEL	**S20-B20**	**S35-B35**	**S55-B55**	**S85-B85**
ACCURACY	3% F.S.	3% F.S.	3% F.S.	3% F.S.
LINEARITY	2% F.S.	2% F.S.	2% F.S.	2% F.S.
HYSTERESIS	3% F.S.	3% F.S.	3% F.S.	3% F.S.
STEPS AT 4/20mA	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°
STEPS AT 0/10V	MIN. 98 STEPS 90°	MIN. 98 STEPS 90°	MIN. 98 STEPS 90°	MIN. 98 STEPS 90°
STEPS AT 0/20mA	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°	DATASHEET	DATASHEET
STEPS AT 1/10V	MIN. 87 STEPS 90°	MIN. 87 STEPS 90°	MIN. 87 STEPS 90°	MIN. 87 STEPS 90°
4/20mA OR 0/20mA INPUT SIGNAL IMPEDANCE	100 Ohm	100 Ohm	100 Ohm	100 Ohm
0/10 V OR 1/10 V INPUT SIGNAL IMPEDANCE	25 KOhm	25 KOhm	25 KOhm	25 KOhm
CLASS	B+C TO DIN EN 15714 INCHING+MODULATION			

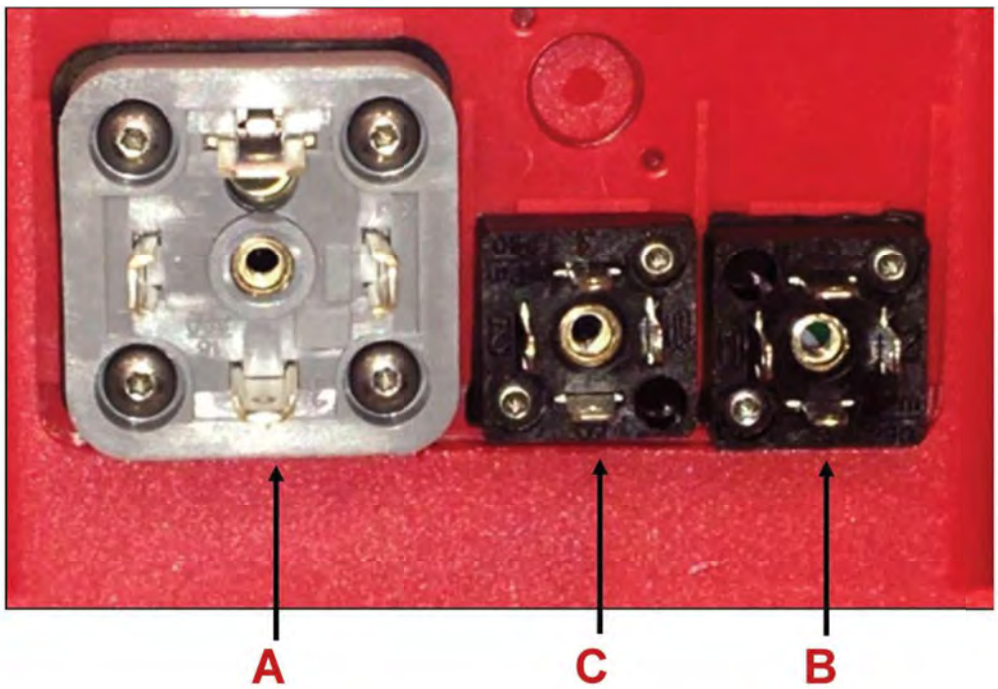
F.S. **F**ULL **S**CALE



Use the configuration you need by moving the DIPs.
Different possibilities of configuration:



OTHER OPTIONS TO BE SET-UP BY THE MANUFACTURER OR WITH A JAC INTERFACE	
OUTPUT ONLY	4/20 mA, 0/10 V, 0/20 mA, 1/10 V
INPUT & OUTPUT	0/20 mA
MOTOR STOP, WITHOUT INSTRUMENTATION	4/20 mA, 0/10 V, 0/20 mA, 1/10 V



A - Power supply plug.
B - Volt free contact plug.
C- Input/Output signal (4/20mA, 0/10V, 0/20mA o 1/10V) plug.

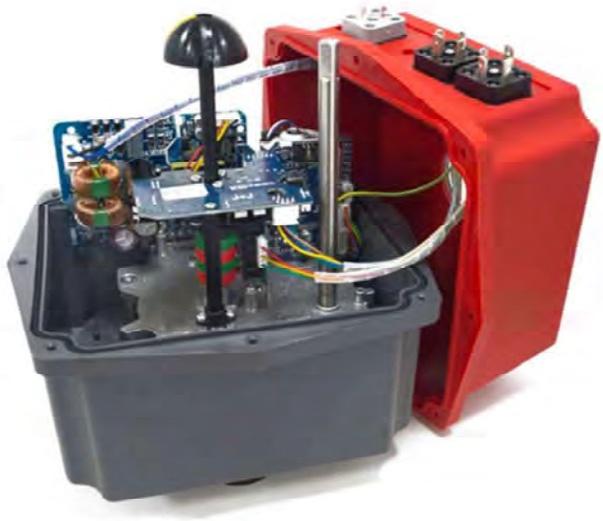
1 - **C** plug - connect a cable between PIN 1 (on the left side) and PIN Earth (on the bottom).

2 - **A** plug - connect:
VAC: PIN1 (neutral) and PIN2 (phrase).
VDC: PIN1 (negative) and PIN2 (positive).

*VERY IMPORTANT: BEFORE CONNECTING "A" PLUG TO THE ACTUATOR, CHECK THAT THE VOLTAGE IS THE SAME AS THE ONE ON THE LABEL (CARTER).

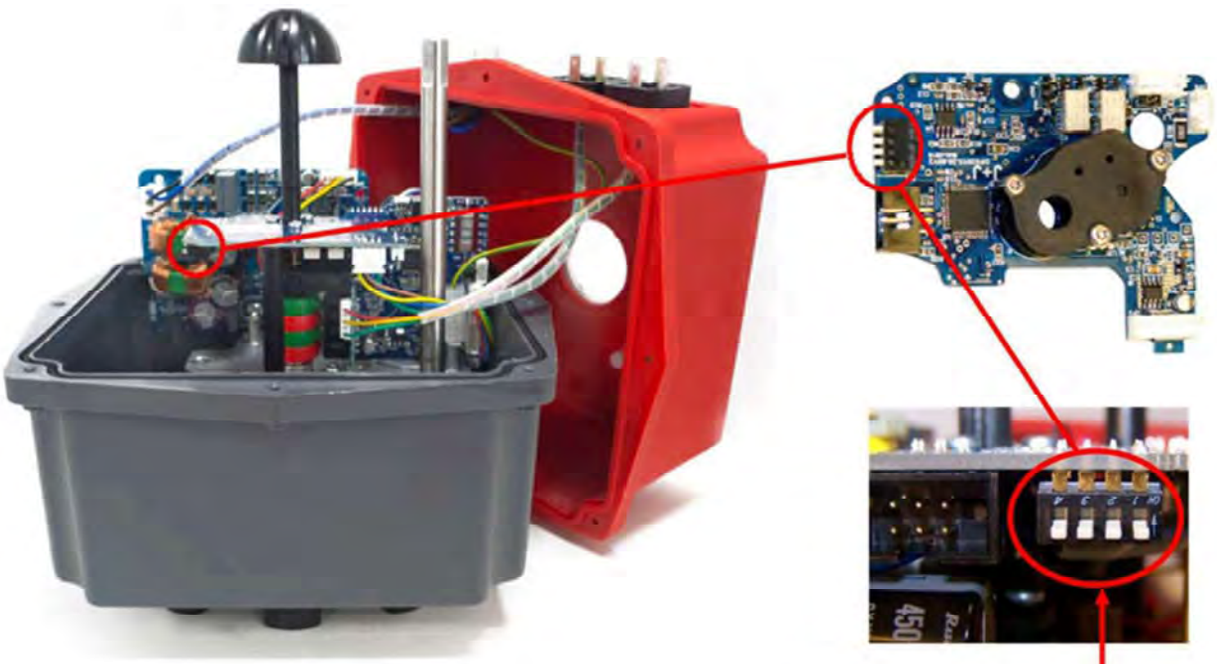
3 - **C** plug - disconnect the cable between PIN1 (on the left side) and PIN Earth (on the bottom).

The actuator will make a complete maneuver and stay in the close position.
The actuators is ready to connect the (4/20mA, 1/10V, 0/20mA o 1/10V) signal to the **C** plug.

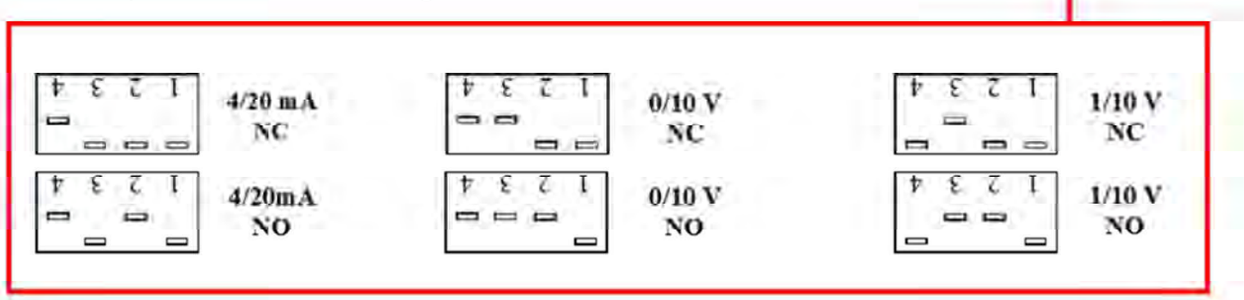


SPECIFICATIONS		
MODEL	**S140-B140**	**S300-B300**
ACCURACY	3% F.S.	3% F.S.
LINEARITY	2% F.S.	2% F.S.
HYSTERESIS	3% F.S.	3% F.S.
STEPS AT 4/20mA	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°
STEPS AT 0/10V	MIN. 98 STEPS 90°	MIN. 98 STEPS 90°
STEPS AT 0/20mA	MIN. 150 STEPS 90°	MIN. 150 STEPS 90°
STEPS AT 1/10V	MIN. 87 STEPS 90°	MIN. 87 STEPS 90°
4/20mA OR 0/20mA INPUT SIGNAL IMPEDANCE	100 Ohm	100 Ohm
0/10 V OR 1/10 V INPUT SIGNAL IMPEDANCE	25 KOhm	25 KOhm
CLASS	B+C TO DIN EN 15714 INCHING+MODULATION	

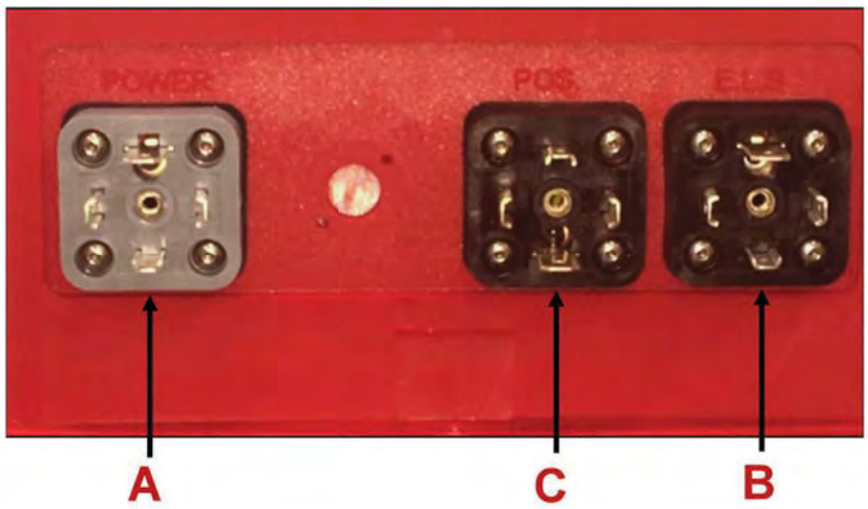
F.S. **F**ULL **S**CALE



Use the configuration you need by moving the DIPs.
Different possibilities of configuration:



OTHER OPTIONS TO BE SET-UP BY THE MANUFACTURER OR WITH A JAC INTERFACE	
OUTPUT ONLY	4/20 mA, 0/10 V, 0/20 mA, 1/10 V
INPUT & OUTPUT	0/20 mA
MOTOR STOP, WITHOUT INSTRUMENTATION	4/20 mA, 0/10 V, 0/20 mA, 1/10 V



A - Power supply plug.
B - Volt free contact plug.
C- Input/Output signal (4/20mA, 0/10V, 0/20mA o 1/10V) plug.

1 - **C** plug - connect a cable between PIN 1 (on the left side) and PIN Earth (on the bottom).

2 - **A** plug - connect:
VAC: PIN1 (neutral) and PIN2 (phrase).
VDC: PIN1 (negative) and PIN2 (positive).

*VERY IMPORTANT: BEFORE CONNECTING "A" PLUG TO THE ACTUATOR, CHECK THAT THE VOLTAGE IS THE SAME AS THE SPECIFIED ON THE LABEL (CARTER).

3 - **B** plug - disconnect the cable between PIN1 (on the left side) and PIN Earth (on the bottom).

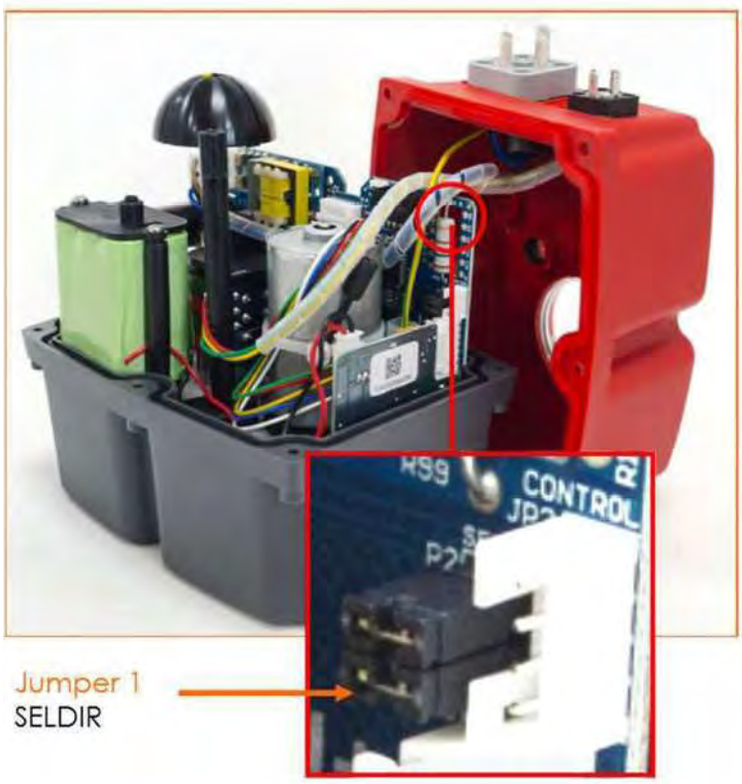
The actuator will make a complete maneuver and stay in the close position.
The actuators is ready to connect the (4/20mA, 1/10V, 0/20mA o 1/10V) signal to the **B** plug.



SPECIFICATIONS				
ACTUATOR MODEL	**S20-B20**	**S35-B35**	**S55-B55**	**S85-B85**
N° WORKING OPERATION WITHOUT RECHARGE, WITH 100% BATTERY CHARGE	10	10	10	10
RECHARGE TIME/ WORKING OPERATION	15 MIN.	21 MIN.	48 MIN.	58 MIN.
BATTERY CONSUMPTION/ WORKING OPERATION	2,2 W	3,0 W	6,8 W	8,3 W
FULL CHARGE TIME 100%	28 H	28 H	28 H	28 H
NOMINAL CAPACITY +/- 5%	2200 mA	2200 mA	2200 mA	2200 mA
NO OR NC FEATURES (*)	JUMPER	JUMPER	JUMPER	JUMPER
CURRENT/ONE WORKING OPERATION WITH BATTERY	10,1 mA	14 mA	31,6 mA	38,6 mA
BATTERY CHARGE	40 mA/h	40 mA/h	40 mA/h	40 mA/h

CONFIGURATION	A	B
PREFERRED POSITION IN CASE OF POWER CUT	(NC) NORMALLY CLOSE	(NC) NORMALLY OPEN

(*) NO OR NC SET-UP



NC SET-UP
NC -If, in case of a power supply failure, we need the actuator go to the CLOSE position, we need to put the **jumper 1** on the SELDIR position.

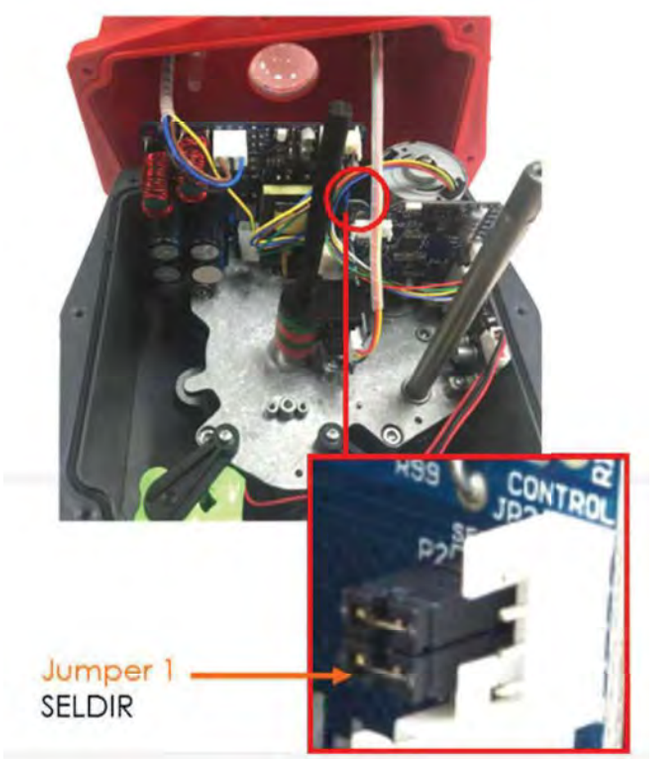
NO SET-UP
NO - If, in case of a power supply failure, we need the actuator go to the OPEN position, be sure that the **jumper 1** is not on the SELDIR position.



SPECIFICATIONS		
ACTUATOR MODEL	**S140-B140**	**S300-B300**
N° WORKING OPERATION WITHOUT RECHARGE, WITH 100% BATTERY CHARGE	4	4
RECHARGE TIME/WORKING OPERATION	30 MIN	50 MIN
BATTERY CONSUMPTION/WORKING OPERATION	23 W	23 W
FULL CHARGE TIME 100%	54 H	54 H
NOMINAL CAPACITY +/- 5%	2200 mA	2200 mA
NO OR NC FEATURES (*)	JUMPER	JUMPER
CURRENT/ONE WORKING OPERATION WITH BATTERY	15,1 mA	25,7 mA
BATTERY CHARGE	40 mA/h	40 mA/h

CONFIGURATION	A	B
PREFERRED POSITION IN CASE OF POWER CUT	(NC) NORMALLY CLOSE	(NC) NORMALLY OPEN

(*) NO OR NC SET-UP



NC SET-UP
NC -If, in case of a power supply failure, we need the actuator go to the CLOSE position, we need to put the **jumper 1** on the SELDIR position.

NO SET-UP
NO - If, in case of a power supply failure, we need the actuator go to the OPEN position, be sure that the **jumper 1** is not on the SELDIR position.



OUTSIDE BOX


INSIDE BOX

The **DPS** is a device for the J4C electric actuator that turns the actuator into a servo controlled valve positioner.

The **DPS** is a modulus with a microprocessor (CPU) which digitally manages the analogical input and output and compare them with the position of the actuator to establish a uniform relation.

The analogical inputs are sent to the CPU where they are processed for his continuous comparI-SOn with the position of the actuator, this allows to obtain a very high sensitivity next to a very high repetitivity of the position (see characteristics).

The **DPS** in communication with the electronic system of the actuator provides an integral management of the motion of the actuator.

SPECIFICATIONS				
MODEL	**S20-B20**	**S35-B35**	**S55-B55**	**S85-B85**
ACCURACY	3% F.S.	3% F.S.	3% F.S.	3% F.S.
LINEARITY	2% F.S.	2% F.S.	2% F.S.	2% F.S.
HYSTERESIS	3% F.S.	3% F.S.	3% F.S.	3% F.S.
STEPS AT 4/20mA	Min. 150 steps 90°	Min. 150 steps 90°	Min. 150 steps 90°	Min. 150 steps 90°
STEPS AT 0/10V	Min. 98 steps 90°	Min. 98 steps 90°	Min. 98 steps 90°	Min. 98 steps 90°
STEPS AT 0/20mA	Min. 150 steps 90°	Min. 150 steps 90°	Min. 150 steps 90°	Min. 150 steps 90°
STEPS AT 1/10V	Min. 87 steps 90°	Min. 87 steps 90°	Min. 87 steps 90°	Min. 87 steps 90°
4/20mA OR 0/20mA INPUT SIGNAL IMPEDANCE	100 Ohm	100 Ohm	100 Ohm	100 Ohm
0/10V OR 1/10V INPUT SIGNAL IMPEDANCE	25 KOhm	25 KOhm	25 KOhm	25 KOhm
CLASS	B+C TO E DIN EN 15714 INCHING+MODULATION			
WEIGHT	0,600 Kg	0,600 Kg	0,600 Kg	0,600 Kg

F.S. **F**ULL **S**CALE



INSIDE THE KIT BOX



DOCUMENT TO FILL IN

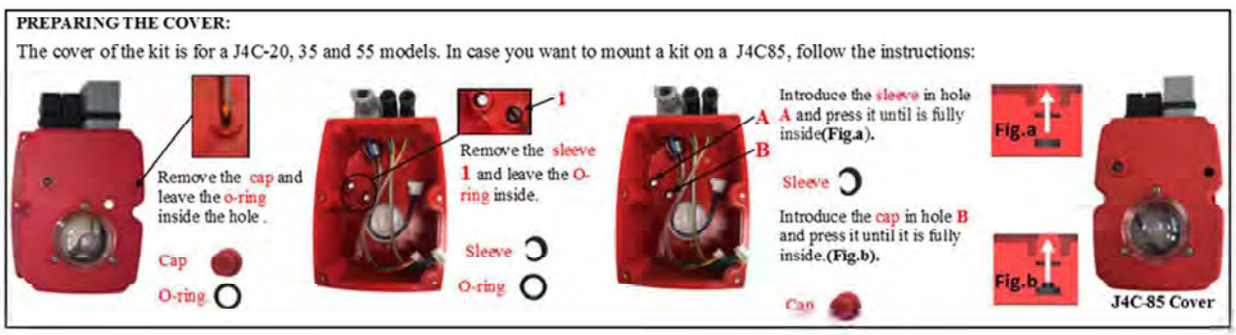


MOUNTING INSTRUCTIONS

PIECES

A - 1 COVER
B - 1 PLASTIC COLUMN
C - 1 DPS POSITIONER PCB
D - 2 SHEET METAL FIXING SCREWS
E - 1 PLASTIC FIXING SCREWS





PLEASE READ CAREFULLY BEFORE MOUNTING

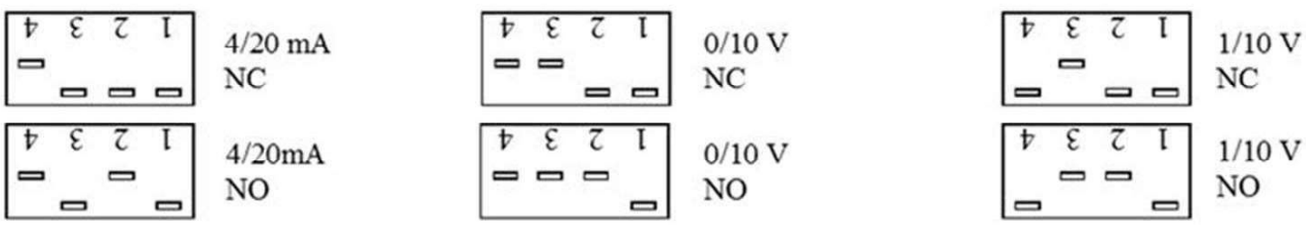
VERY IMPORTANT!!! PLEASE FOLLOW THE INSTRUCTIONS STEP BY STEP. BEFORE CONNECTING "A" PLUG TO THE ACTUATOR, CHECK THAT THE VOLTAGE IS THE SAME AS THE ONE SPECIFIED ON THE LABEL (CARTER).

TO CONVERT A STANDARD (ON-OFF) J4C ELECTRIC ACTUATOR INTO A MODULATING FUNCTION WITH POSITIONER, PROCEED AS FOLLOWS:

THE UNIT MUST BE DISCONNECTED FROM ANY ELECTRICAL POWER OR SIGNAL BEFORE INSTALLING

1. REMOVE THE SCREW, WHICH IS FIXING THE HAND WHEEL **(FIG.2)**
2. REMOVE THE 6 SCREWS, WHICH ARE FIXING THE BODY TO THE COVER OF THE ACTUATOR **(FIG.3)**
3. CAREFULLY LIFT THE COVER **(FIG.4)**
4. REMOVE THE CABLES (FROM THE COVER) CONNECTED TO THE ACTUATOR PCB **(FIG. 5A, 5B AND 5C)**
5. CAREFULLY REMOVE THE POSITION INDICATOR **(FIG. 6)**
6. FIX THE PLASTIC COLUMN (**B**) ON THE BASE PLATE, BY USING 2 SHEET METAL FIXING SCREWS (**D**) **(FIG. 7A, 7B AND 7C)**
7. TAKE THE DPS COVER (**A**) AND CONNECT ITS CABLES, FOLLOWING **(FIG.8A, 8B AND 8C)**
8. PLACE THE MENTIONED CABLES AS PER **(FG.9A, AND 9B)**
9. MOUNT THE DPS POSITIONER PCB (**C**), MATCHING THE CLEFT OF THE SHAFT WITH THE KEY INSIDE THE DPS GEAR **(FIG.10)**
10. PRESS THE DPS POSITIONER PCB (**C**) ALONG THE SHAFT UNTIL THE **PCB** CONNECTOR (**JP3**) IS PLUGGED IN THE ACTUATOR PCB CONNECTOR (**JP2**) **(FIG.11)**
11. FIX THE DPS POSITIONER PCB (**C**) TO THE PLASTIC COLUMN (**B**) WITH THE PLASTIC FIXING SCREW (**E**) **(FIG. 12A)**

12. CONNECT THE REMAINING CABLE (**A**) TO THE CONNECTOR BASE ON THE DPS PCB (**C**) **(FIG. 12B)**
13. CAREFULLY INSERT THE POSITION INDICATOR, MATCHING ITS INNER KEY WITH THE CLEFT OF THE SHAFT **(FIG. 13)**
14. IN ORDER TO SET THE ACTUATOR UP, USE THE DIPS SHOWN IN PICTURE **(FIG.14)**
PUT DIP 1 IN ON POSITION, CONNECT THE GREY CONNECTOR TO THE POWER SUPPLY, PUT DIP 1 BACK TO THE PRIOR POSITION. WAIT UNTIL THE ACTUATOR MAKE A COMPLETE MANEUVER **(FIG.14A AND 14B)**
15. DISCONNECT THE GREY CONNECTOR FROM THE POWER SUPPLY
16. USE THE CONFIGURATION YOU NEED BY MOVING THE DIPS, ACCORDING TO THE INSTRUMENTATION SIGNAL **(FG.15) :**



17. CAREFULLY MOUNT THE COVER, MINDING THE CABLES NOT TO BE PRESSED **(FIG.16)**
18. FIX THE COVER TO THE BODY BY USING THE 6 SCREWS **(FIG.17)**
19. MOUNT THE HAND WHEEL ON THE SHAFT AND FIX IT BY USING THE SCREW **(FIG.18)**
20. MOUNT THE 3 OUTER CONNECTORS TOGETHER WITH ITS RUBBER JOINTS AND FIX THEM TO THE COVER, BY USING THE SCREWS **(FIG.19)**
21. FILL IN THE DOCUMENT INSIDE THE KIT, AND SEND IT TO THE FAX NUMBER OR E-MAIL, SHOWN IN THE DOCUMENT

THE UNIT IS READY TO WORK

<u>OUTER SET-UP: ONLY IF NECESSARY</u>

-B PLUG - CONNECT A CABLE BETWEEN PIN 1 AND PIN EARTH **(FIG. 20)**
- A PLUG - CONNECT IT TO THE POWER SUPPLY
- B PLUG - DISCONNECT THE CABLE BETWEEN PIN 1 AND PIN EARTH

THE ACTUATOR WILL MAKE A COMPLETE MANEUVER.
CONNECT B CONNECTOR TO THE ACTUATOR. THE ACTUATOR IS READY TO WORK.


Fig.2
Fig. 3
Fig.4
Fig.5
A
B
C
Fig.6
Fig.7
B
A
C
Fig.8
A
B
C
Fig.9
A
B
Fig.10
cleft
key
Fig.11
JP3
JP2
Fig.12
B
A
Fig.13
cleft
key
Fig.14
A
B
Fig.15
Fig.16
Fig.17
Fig.18
Fig.19
Fig.20
PIN 1
A
B
C



OUTSIDE BOX


INSIDE BOX

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The **DPS** is a modulus with a microprocessor (CPU) which digitally manages the analogical input and output and compare them with the position of the actuator to establish a uniform relation.

The analogical inputs are sent to the CPU where they are processed for his continuous comparI-SOn with the position of the actuator, this allows to obtain a very high sensitivity next to a very high repetitivity of the position (see characteristics).

The **DPS** in communication with the electronic system of the actuator provides an integral management of the motion of the actuator.

SPECIFICATIONS		
MODEL	**S14-B14**	**S300-B300**
ACCURACY	3% F.S.	3% F.S.
LINEARITY	2% F.S.	2% F.S.
HYSTERESIS	3% F.S.	3% F.S.
STEPS AT 4/20mA	Min. 150 steps 90°	Min. 150 steps 90°
STEPS AT 0/10V	Min. 98 steps 90°	Min. 98 steps 90°
STEPS AT 0/20mA	Min. 150 steps 90°	Min. 150 steps 90°
STEPS AT 1/10V	Min. 87 steps 90°	Min. 87 steps 90°
4/20mA OR 0/20mA INPUT SIGNAL IMPEDANCE	100 Ohm	100 Ohm
0/10V OR 1/10V INPUT SIGNAL IMPEDANCE	25 KOhm	25 KOhm
CLASS	B+C TO E DIN EN 15714 INCHING+MODULATION	
WEIGHT	1 Kg	1 Kg

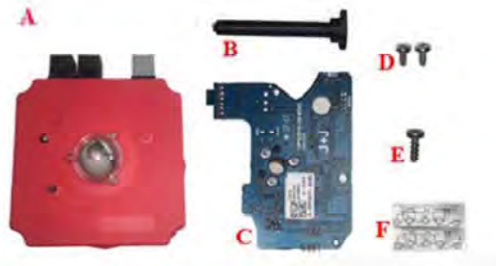
F.S. **F**ULL **S**CALE


INSIDE THE KIT BOX


DOCUMENT TO FILL IN


MOUNTING INSTRUCTIONS

PIECES
A - 1 COVER
B - 1 PLASTIC COLUMN
C - 1 DPS POSITIONER PCB
D - 1 PLASTIC FIXING SCREWS
E - 1 SCHEMATIC DIAGRAM LABEL



PLEASE READ CAREFULLY BEFORE MOUNTING

VERY IMPORTANT!!! PLEASE FOLLOW THE INSTRUCTIONS STEP BY STEP. BEFORE CONNECTING "A" PLUG TO THE ACTUATOR, CHECK THAT THE VOLTAGE IS THE SAME AS THE ONE SPECIFIED ON THE LABEL (CARTER).

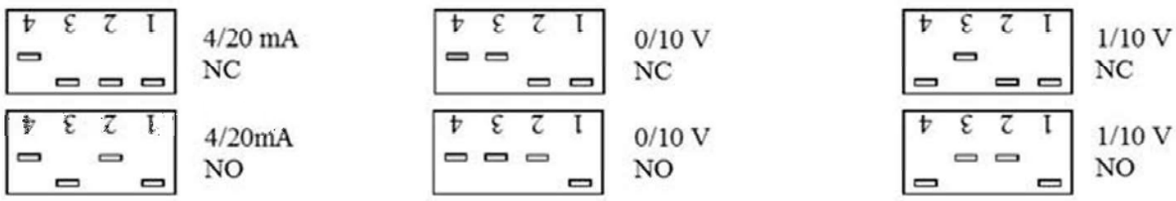
TO CONVERT A STANDARD (ON-OFF) J4C ELECTRIC ACTUATOR INTO A MODULATING FUNCTION WITH POSITIONER, PROCEED AS FOLLOWS:

THE UNIT MUST BE DISCONNECTED FROM ANY ELECTRICAL POWER OR SIGNAL BEFORE INSTALLING

1. REMOVE THE SCREW, WHICH IS FIXING THE HAND WHEEL **(FIG.2A AND 2B)**
2. REMOVE THE 8 SCREWS, WHICH ARE FIXING THE BODY TO THE COVER OF THE ACTUATOR **(FIG.3)**
3. CAREFULLY LIFT THE COVER **(FIG.4)**
4. REMOVE THE CABLES (FROM THE COVER) CONNECTED TO THE ACTUATOR PCB **(FIG. 5A, 5B AND 5C)**
5. CAREFULLY REMOVE THE POSITION INDICATOR **(FIG. 6)**
6. FIX THE PLASTIC COLUMN (**B**) ON THE BASE PLATE, BY USING 2 SHEET METAL FIXING SCREWS (**D**) **(FIG. 7A, 7B AND 7C)**
7. TAKE THE DPS COVER (**A**) AND CONNECT ITS CABLES, FOLLOWING **(FIG.8A, 8B AND 8C)**
8. MOUNT THE DPS POSITIONER PCB INSIDE THE KIT(**C**), MATCHING THE CLEFT OF THE SHAFT WITH THE KEY INSIDE THE DPS GEAR **(FIG.9)**
9. PRESS THE DPS POSITIONER PCB (**C**) ALONG THE SHAFT UNTIL THE **PCB** CONNECTOR (**JP3**) IS PLUGGED IN THE ACTUATOR PCB CONNECTOR (**JP2**) **(FIG.10)**
10. FIX THE DPS POSITIONER PCB (**C**) TO THE PLASTIC COLUMN (**B**) WITH THE PLASTIC FIXING SCREW (**E**) **(FIG. 11A)**
11. CONNECT THE REMAINING CABLE FROM THE KIT COVER (**A**) TO THE CONNECTOR BASE ON THE DPS PCB (**C**) **(FIG. 11B)**
12. CAREFULLY INSERT THE POSITION INDICATOR, MATCHING ITS INNER KEY WITH THE CLEFT OF THE SHAFT **(FIG. 12)**
13. IN ORDER TO SET THE ACTUATOR UP, USE THE DIPS SHOWN IN PICTURE **(FIG.13)**

PUT DIP 1 IN ON POSITION, CONNECT THE GREY CONNECTOR TO THE POWER SUPPLY, PUT DIP 1 BACK TO THE PRIOR POSITION. WAIT UNTIL THE ACTUATOR MAKE A COMPLETE MANEUVER **(FIG.13A AND 13B)**

14. DISCONNECT THE GREY CONNECTOR FROM THE POWER SUPPLY
15. USE THE CONFIGURATION YOU NEED BY MOVING THE DIPS, ACCORDING TO THE INSTRUMENTATION SIGNAL **(FG.14) :**



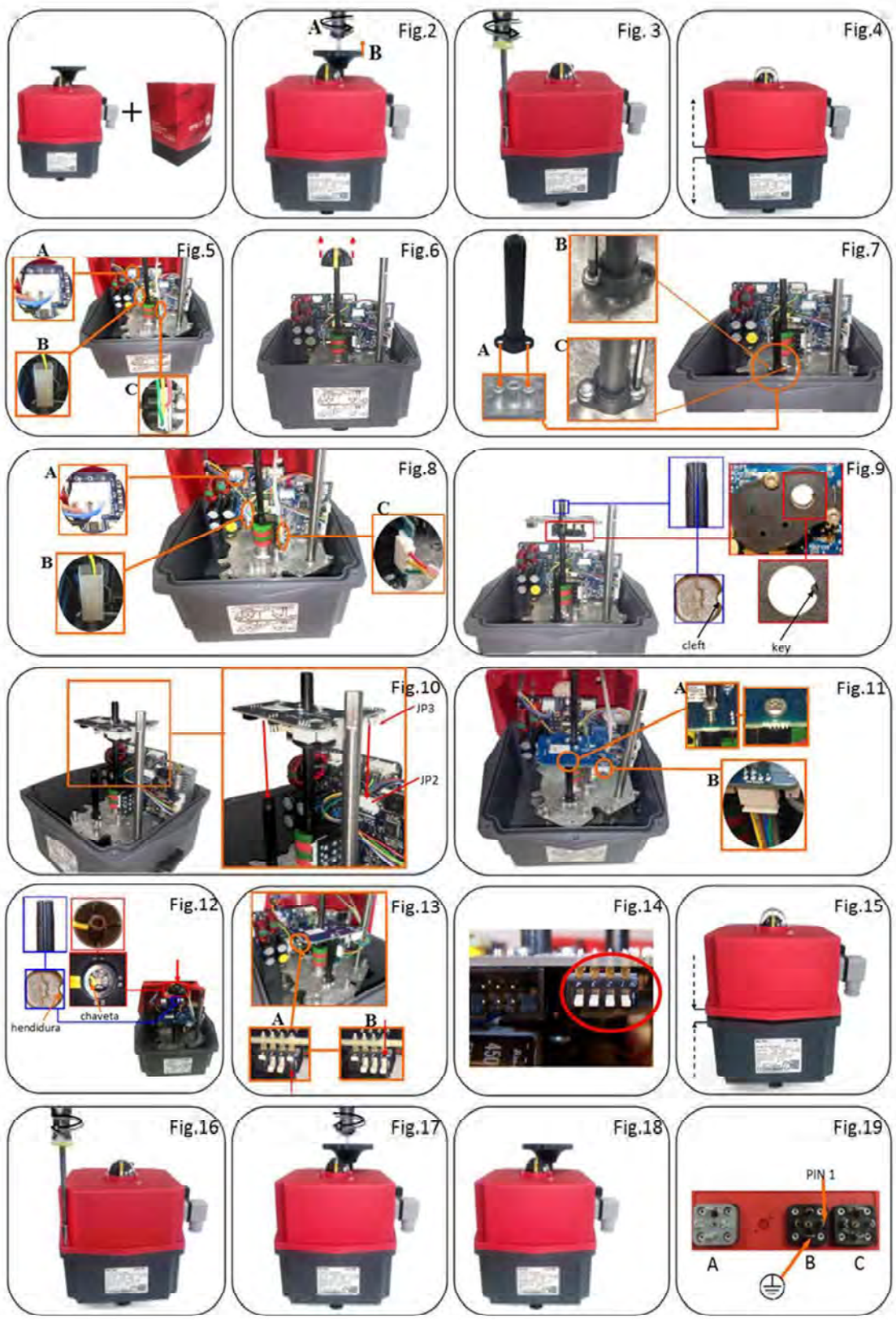
16. CAREFULLY MOUNT THE COVER, MINDING THE CABLES NOT TO BE PRESSED **(FIG.15)**
17. FIX THE COVER TO THE BODY BY USING THE 8 SCREWS **(FIG.16)**
18. MOUNT THE HAND WHEEL ON THE SHAFT AND FIX IT BY USING THE SCREW **(FIG.17)**
19. MOUNT THE 3 OUTER CONNECTORS TOGETHER WITH ITS RUBBER JOINTS AND FIX THEM TO THE COVER, BY USING THE SCREWS **(FIG.18)**
20. REMOVE THE WIRING LABEL FROM THE ACTUATOR AND REPLACE IT BY The ONE INSIDE THE KIT BOX (**F**)
21.FILL IN THE DOCUMENT INSIDE THE KIT, AND SEND IT TO THE FAX NUMBER OR E-MAIL, SHOWN IN THE DOCUMENT

THE ACTUATOR IS READY TO WORK

<u>OUTER SET-UP: ONLY IF NECESSARY</u>

-B PLUG - CONNECT A CABLE BETWEEN PIN 1 AND PIN EARTH **(FIG. 19)**
- A PLUG - CONNECT IT TO THE POWER SUPPLY
- B PLUG - DISCONNECT THE CABLE BETWEEN PIN 1 AND PIN EARTH

THE ACTUATOR WILL MAKE A COMPLETE MANEUVER.
CONNECT AND FIX THE B OUTER CONNECTOR TO THE ACTUATOR.
THE ACTUATOR IS READY TO WORK.


Fig.2
A
B
Fig. 3
Fig.4
Fig.5
A
B
C
Fig.6
Fig.7
B
A
C
Fig.8
A
B
C
Fig.9
cleft
key
Fig.10
JP3
JP2
Fig.11
A
B
Fig.12
hendidura
chaveta
Fig.13
A
B
Fig.14
Fig.15
Fig.16
Fig.17
Fig.18
Fig.19
PIN 1
A
B
C



OUTSIDE BOX

INSIDE BOX

The BRS safety block system is an automatism that, when coumpled to the J4C multi voltage electric actuators, lets the valve situate in a preferable position NC or NO, when there is a power supply failure. Inside of the housing there are a BSR print circuit board and a battery pack, which is kept in continous charge.
In case of the valve is not in the preferable position and there is a power supply cut, the BSR system returns the valve back to the preferable position by means of the batteries tension, operating as a "single acting" actuator.

SPECIFICATIONS				
ACTUATOR MODEL	**S20-B20**	**S35-B35**	**S55-B55**	**S85-B85**
N° WORKING OPERATION WITHOUT RECHARGE, WITH 100% BATTERY CHARGE	10	10	10	10
RECHARGE TIME/WORKING OPERATION	15 MIN	21 MIN	48 MIN	58 MIN
BATTERY CONSUMPTION/ WORKING OPERATION	2,2 W	3,0 W	6,8 W	8,3 W
FULL CHARGE TIME 100%	28 H	28 H	28 H	28 H
NOMINAL CAPACITY +/-5%	2200 mA	2200 mA	2200 mA	2200 mA
NO OR NC FEATURES (*)	JUMPER	JUMPER	JUMPER	JUMPER
CURRENT/ONE WORKING OPERATION WITH BATTERY	10,1 mA	14 mA	31,6 mA	38,6 mA
BATTERY CHARGE	40 mA/h	40 mA/h	40 mA/h	40 mA/h
WEIGHT	0,27 KG	0,27 KG	0,27 KG	0,27 KG

VERY IMPORTANT:

PLEASE FOLLOW THE INSTRUCTIONS STEP BY STEP. IF THE CONNECTOR OF THE BATTERY PACK IS PLUGED TO THE "BSR" PCB, BEFORE ARRIVING TO THE POINT 7, THE PCB COULD BE DAMAGED



INSIDE THE KIT BOX



DOCUMENT TO FILL IN



MOUNTING INSTRUCTIONS

KIT COMPONENTS

A - 1 BSR PCB
B - 1 LOWER BATTERY SUPPORT
C - 1 BATTERY PACK
D - 1 UPPER BATTERY SUPPORT
E - 3 SHEET METAL FIXING SCREWS
F - 2 PLASTING FIXING SCREWS



1. REMOVE THE HAND WHEEL SCREWS AND TAKE IT OFF **(FIG.1)**
2. REMOVE THE 6 SCREWS BETWEEN THE COVER AND THE BODY OF THE ACTUATOR **(FIG.2)**
3. CAREFULLY REMOVE THE COVER, IN ORDER TO INSTALL THE KIT **(FIG.3)**
4. TAKE THE BSR CB (**A**) FROM THE KIT AND CONNECT IT TO THE ACTUATOR PCB, BY USING THE CONNECTOR SHOWN IN PICTURE. SEE **(FIG. 4)**. FIX IT TO THE ACTUATOR METAL PLATE, BY USING THE SHEET METAL FIXING SCREW (**E**). SEE **(FIG. 5)**
5. PUT THE LOWER BATTERY SUPPORT (**B**). SEE **(FIG. 6A)**. FIX IT BY USING 2 SHEET METAL FIXING SCREWS (**E**) **(FIG. 6B AND 6C)**
6. PLACE THE BATTERY PACK (**C**) ON THE LOWER BATTERY SUPPORT (**B**) **(FIG. 7B)**. THE BATTERY CABLES SHOULD REMAIN ON THE BOTTOM PART. PUT THE CABLES, AS SHOWN IN THE PICTURE **(FIG. 7A)**
7. CONNECT THE BATTERY CABLES TO THE BSR PCB (**A**), AS PER **(FIG. 7C)**
8. PLACE THE UPPER BATTERY SUPPORT (**D**) **(FG. 8A)** AND FIX IT TO THE COLUMS OF THE LOWER BATTERY SUPPORT (**B**), BY USING THE PLASTING FIXING SCREWS (**F**) **(FIG. 8B & 8C)**
9. BSR CONFIGURATION NO OR NC **(FIG. 9)**:
   NC (NORMALLY CLOSE) SELDIR JUMPER ON.
   NO (NORMALLY OPEN) SELDIR JUMPER OFF.
10. CAREFFULLY REPLACE THE COVER AND BE SURE THAT THE JOINT IS CORRECTLY LODGED IN TS PLACE. SEE **(FIG. 10)**. BE SURE THAT ANY CABLE IS NOT TRAPPED BETWEEN THE COVER AND THE BODY.

11. FIX THE 6 SCREWS, BETWEEN THE COVER AND THE BODY. SEE **(FIG. 11)**
12. REASSEMBLE THE HAND WHEEL AND FIX IT WITH THE SCREWS. SEE **(FIG. 12)**
13. FILL IN THE BLANKS OF THE DOCUMENT INSIDE THE BSR KIT AND SEND IT BACK TO THE SUPPLIER, VIA FAX OR MAIL.

NOW, THE ACTUATOR IS READY TO WORK.

WE STRONGLY RECOMMEND TO PUT THE POWER ON, SEND THE ACTUATOR TO AN INTERMEDIATE POSITION AND CHECK THAT, AFTER PUTTING THE POWER OFF, THE ACTUATOR GOES TO THE PERVIOUS SET-UP POSITION (NC OR NO).

Fig.1



Fig.2



Fig.3



Fig.4



Fig.5

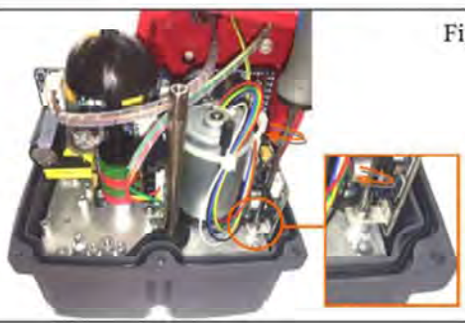


Fig.6

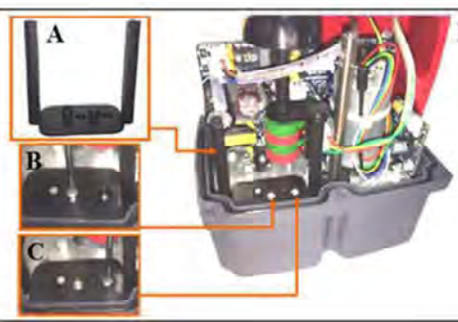


Fig.7

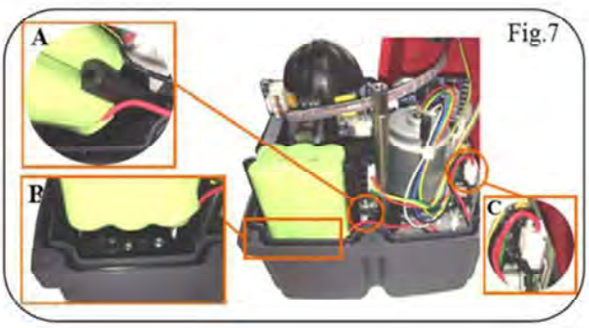


Fig.8

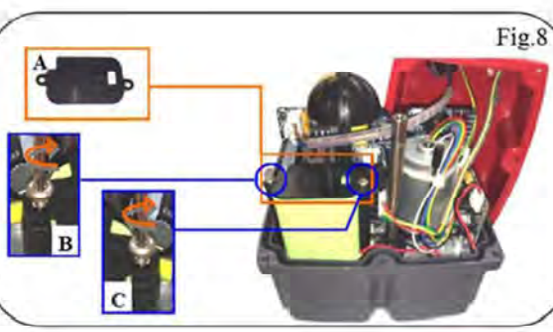


Fig.9



Fig.10



Fig.11



Fig.12





The BRS safety block system is an automatism that, when coumpled to the J4C multi voltage electric actuators, lets the valve situate in a preferable position NC or NO, when there is a power supply failure. Inside of the housing there are a BSR print circuit board and a battery pack, which is kept in continous charge.
In case of the valve is not in the preferable position and there is a power supply cut, the BSR system returns the valve back to the preferable position by means of the batteries tension, operating as a "single acting" actuator.

SPECIFICATIONS		
ACTUATOR MODEL	**S140-B140**	**S300-B300**
N° WORKING OPERATION WITHOUT RECHARGE, WITH 100% BATTERY CHARGE	4	4
RECHARGE TIME/WORKING OPERATION	30 MIN	50 MIN
BATTERY CONSUMPTION/ WORKING OPERATION	23 W	23 W
FULL CHARGE TIME 100%	54 H	54 H
NOMINAL CAPACITY +/-5%	2200 mA	2200 mA
NO OR NC FEATURES (*)	JUMPER	JUMPER
CURRENT/ONE WORKING OPERATION WITH BATTERY	15,1 mA	25,7 mA
BATTERY CHARGE	40 mA/h	40 mA/h
WEIGHT	0,375 KG	0,375 KG

J4C 140/300 BSR KIT - MOUNTING INSTRUCTIONS V001

VERY IMPORTANT:

PLEASE FOLLOW THE INSTRUCTIONS STEP BY STEP. IF THE CONNECTOR OF THE BATTERY PACK IS PLUGED TO THE "BSR" PCB, BEFORE ARRIVING TO THE POINT 4, THE PCB COULD BE DAMAGED


INSIDE THE KIT BOX


DOCUMENT TO FILL IN


MOUNTING INSTRUCTIONS

KIT COMPONENTS
A - 1 BSR PCB
B - 2 BATTERY SUPPORT
C - 2 BATTERY PACK
D - 3 SHEET METAL FIXING SCREWS
E - 1 PLASTIC CLAMP



1. REMOVE THE HAND WHEEL SCREWS AND TAKE IT OFF **(FIG.1A & 1B)**
2. REMOVE THE 8 SCREWS BETWEEN THE COVER AND THE BODY OF THE ACTUATOR **(FIG.2)**
3. CAREFULLY REMOVE THE COVER, IN ORDER TO INSTALL THE KIT **(FIG.3)**
4. TAKE THE BSR CB (**A**) FROM THE KIT AND CONNECT IT TO THE ACTUATOR PCB, BY USING THE CONNECTOR SHOWN IN PICTURE. SEE **(FIG. 4)**. FIX IT TO THE ACTUATOR METAL PLATE, BY USING THE SHEET METAL FIXING SCREW (**D**). SEE **(FIG. 5)**
5. PLACE THE 2 BATTERY PACKS (**C**). AS THE PICTURE **(FIG. 6A & 6B)**
6. PLACE THE BATTERY SUPPORTS (**B**), AS THE PICTURE **(FIG. 7A & 7B)**
7. FIX THE BATTERY SUPPORTS (**B**), WITH THE SHEET METAL FIXING SCREWS (**D**) **(FIG. 8A & 8B)**
8. CONNECT THE BATTERY CABLES TO THE BSR PCB (**A**), AS PER **(FG. 8C)**
9. PUT BOTH BATTERY CABLES (**C**) TOGETHER WITH THE PLASTIC CLAMP (**E**) **(FIG. 8D)**. CUT THE REMAINING PART OF THE PLASTIC CLAMP (**E**).
10. BSR CONFIGURATION NO OR NC **(FIG.9)**:
    NC (NORMALLY CLOSE) SELDIER JUMPER ON.
    NO (NORMALLY OPEN) SELDIER JUMPER OFF.
11. CAREFFULLY REPLACE THE COVER AND BE SURE THAT THE JOINT IS CORRECTLY LODGED IN TS PLACE. SEE **(FIG. 10)**. BE SURE THAT ANY CABLE IS NOT TRAPPED BETWEEN THE COVER AND THE BODY.
12. FIX THE 8 SCREWS, BETWEEN THE COVER AND THE BODY. SEE **(FIG. 11)**

13. REASSEMBLE THE HAND WHEEL AND FIX IT WITH THE SCREWS. SEE **(FIG. 12)**
14. FILL IN THE BLANKS OF THE DOCUMENT INSIDE THE BSR KIT AND SEND IT BACK TO THE SUPPLIER, VIA FAX OR MAIL.

NOW, THE ACTUATOR IS READY TO WORK.

WE STRONGLY RECOMMEND TO PUT THE POWER ON, SEND THE ACTUATOR TO AN INTERMEDIATE POSITION AND CHECK THAT, AFTER PUTTING THE POWER OFF, THE ACTUATOR GOES TO THE PERVIOUS SET-UP POSITION (NC OR NO).

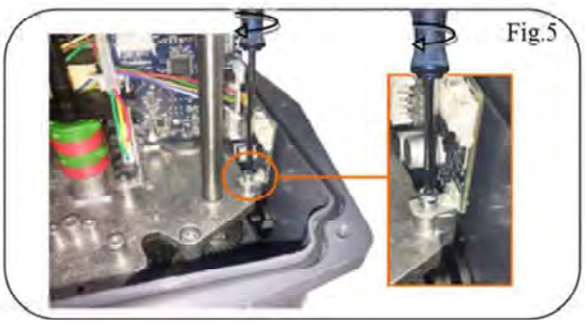


Fig.1


Fig.2


Fig.3


Fig.4


Fig.5

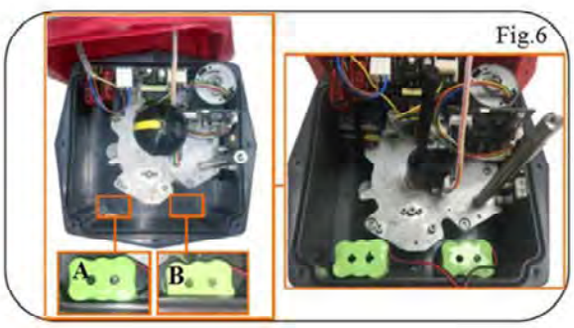


Fig.6

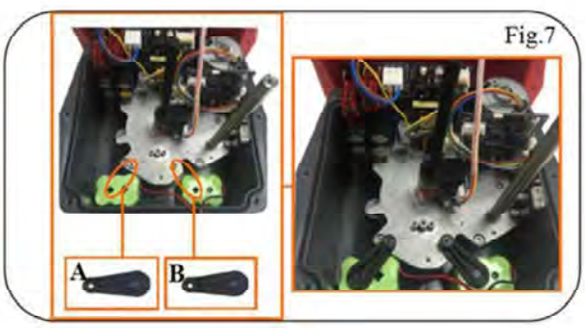


Fig.7

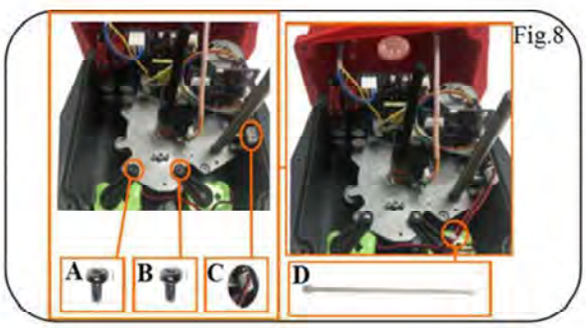


Fig.8

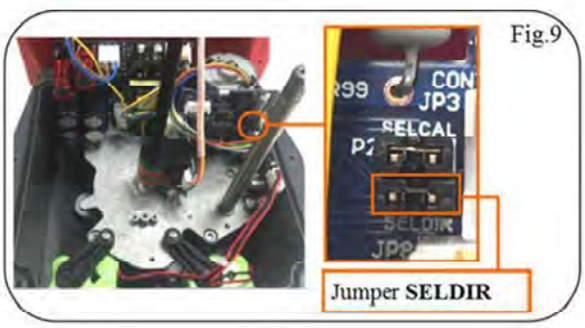


Fig.9


Fig.10


Fig.11


Fig.12

Cam Service are warranted against defects of workmanship or assembly as follows:

J4C S/B SERIES: up to 60.000 working cycles or 3 years from their shipment date.
Working conditions of a 75% of duty. Max number of 50 limiter function activations, within 3 years of the warranty period.

OUR WARRANTY SOLELY AND EXCLUSIVELY THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS IN OUR WORKSHOP OR IN THE PLACEMENT OF THE INSTALLATION, AND DOES NOT COVER INDEMNIFICATIONS OR OTHER EXPENSES.

the warranty will be void if the device has been open, if the defects are the results of the misuse or if our products have been handled, repaired or modified outside our workshop or have been installed with materials or by methods not in accordance with our STANDARDS.
The party alleging the existence of a defect of workmanship shall accredit the suitable use of the product and, if appropriate the correct installation of the same.

The expenses pf the return and reshipment of the defective materials will be fot the account of the buyer.





GENERAL ADVICE

TRANSPORTATION:
The transport to the installation location should always take place in a fixed packaging. Do not carry the actuator on the hand wheel and do not attach any hoists to the hand wheel.

ENTRY CONTROL:
Check directly after delivery the actuatorfor possible demages in transit and faults.
Don't leave any parts in the packaging. Check on the bases of the delivery note and the type label at the actuator whether the delivered goods correspond to your order.

STORAGE:
Store the actuators in well ventilated, dry rooms. They must be protected againts humidity, dust, dirt, temperature change and solar radiation. If a storage is not possible under the described conditions, the built-in control room heater has to be wired actively. Fot this purpose, the actuator must be connected to the mains voltage corresponding to the voltage indicated on the nameplate.

DAMAGES IN TRANSIT:
Claims for damages related to shipping damage are immediately reported to the delivering transport company. the transport packaging should be kept. Customize a damage report for return (due to damage/repairs). Demage claims can be made only as asserted.
Return the delivery, after agreement, back to us, if possible with their original packaging und and completed return form. Send us the document via fax or mail. After our approval send you the goods together with the return document and return material authorization number to our service department.

FIRST CHECK THE FOLLOWING CIRCUMSTANCES:
- Does the actuator the required version (torque, protection, voltage, swivel angle, etc.)
- Does the wiring acc. to the voltage (see diagram/type label).
- Is it possible to adjust the valve on the manual override.
- Switch from AUTO to MAN, move the handwheel/handlever to synchronize the transmission them exit the adjustment path manually and turn back to the starting position. Then swith from MAN to AUTO and move the handlever/hand wheel onesmore.

These safety instructions are to be considered by any person concerned with the operation, maintenance or repair of the actuators. The proper and safe operation requires proper transport, proper storage, mounting and careful operation.
- Maintenance and repair work may only be performed by qualified personnel. When wiring electrical equipment the applicable VDE and EVU regulations are observed.
- Electrical protection measures (grounding resistance, etc.) are to be checked.
- When working on the acturator or connected to these devices and system components, the supply voltage must be switched off.
- Perform the installation, repair work in compliance with the applicable statutory and professional safety and accident prevention regulations!
- The safety aspects are always depending on the circumstances and the timing of the assembly, disassembly, adjustment, commissioning and are therefore alwaysto adapt to the application.

MOUNTING:
- Switch off all equipment, machinery, equipment which is affected by the installation or repair and disconnect the equipment, machinery, plant, where appropriate, from the net!

Check whether the plant shut-down causes potential danger! Inform the shift foreman, safety engineer or the conductor immediately to prevent a fault in the actuator, by run put or spilling of liquids or leakage of gases, with suitable measures!
- Check the correct function of the safety devices (e.g. Emergency-Stop-Switch/Safetyvalves etc.)!
- Provide for adequate vibration ISOlation! Vibrations can cause damage depending on the type of resonance with the actuator components. The use in vibration-prone environmentshas to be coordinated with the actuator manufacturer.
- When installed in wet environments and in areas with significant temperature changes in each case the built-in control room heater has to be kept actively after the actuator is stopping in the end position.
- Fireplaces, stoves, drirect sunlight and other heat sources can emit large amounts of energy. This heat radiation should be avoided by appropriate shielding of the actuator.

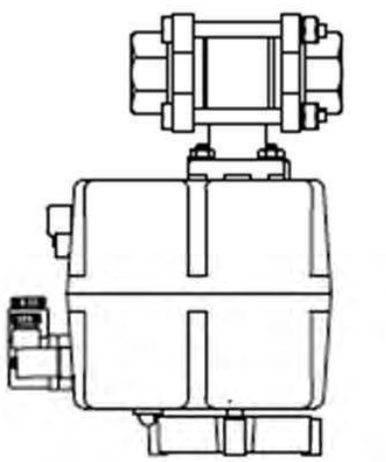
SETTING AND COMMISSIONING:
- Make sure that the starting or the test settings on the actuator, no potential hazards to personnel or the environmet.
- If necessary, set up warning signs, so that unintentional operation is prevented.

- During commissioning of the electric part turn actuator manually or electrically, the position of an attached valve is change. This allows the flow of gases, vapuors, liquids, etc. are enabled or interrupted.
- Check that the valve is actually closed 100 percent when the controller signals the corresponding position!
- Avoid being trapped by suitable measures that by moving parts limbs.
- The actuator may be used only for the purpose it was designed.
- Open the electric rotary actuator only so far as it is described in this documentation.
- Before mounting the actuator is the ease of movement of the actuator to consider.
- All cables that are to be connected to the supply, before the electrical installation.
- Upon completion of maintenance or repair, check the correct function and possibly adhering to the target angular position of the actuator and the function of the adjusted to the angular positions switch.
- To clean the housing, do not use abrasive, corrosive or flammable cleaners or high-pressure cleaning equipment.

ENVIRONMENT:
The actuator must be protected against outdoor heating by solar radiation, freezing, UV radiation (e.g. shelter/roof). To avoid condensation, the control room heater must be active, i.e. the supply voltage must be applied continuously.
Cabling and connector seals should be checked for proper fit and tightness. In cold or hot liquids above or below the temperature range (-20°C to 70°C), a temperature derivative should be provided. In applications where vibrations are expected, e.g. compressors, motors, line strokes, in the pipeline pipe compensators have to be provided.

MOUNTING:
According to the use - and saferty - requirements, the part of the plant design or operator has to require inspection - and maintenance - cycles as well as instructions and documentations on the operating characteristics of the actuators. It should be noted that the manual override is accessible and the position indicator is visible. Depending on the version the actuator is pre-adjusted according to the imprint. You may adjust the swivel angle (see "position adjustment"). The assembly of the actuator is limited to the mechanical assembly in that equipment/machinery/plant part, which contains the actuating device and to the terminal of the actuator to the motor actuator-and control lines.
To the following description we assume that you have read the previous chapter carefully. Pay attention to the assembly and disassembly instructionsand warning notes written in the chapter on safety advise.

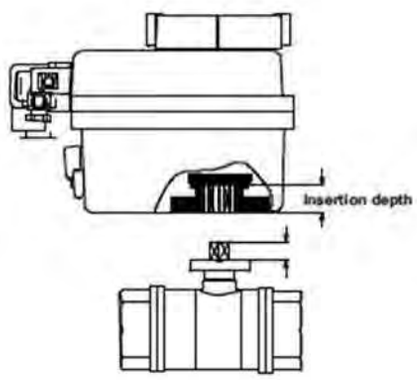
MAINTENANCE:
The actuators require no maintenance. A control test to function according to the security requirements of the plant system is reccommented, especially for seldom-used actuators. After commissioning, the connection of the actuator with the valve should be checked after some time. Here also the ease of the assembled valve is to be tested. Generally attention must be paid to tight fit of the lid and tightness of the cable gland. Unused connectors must be covered accordingly. After long plant shut-downs valves can be extremely stiff. A manual actuation (without any actuator) might be necessary before restarting (notice instructions of the valve suppliers).



not permissible installation

MOUNTING OF VALVE:
The valves shall be designed according to interface DIN3337/IS05211. All alignment od actuator and valve shaft must be ensured.
The tchnical requirements must comply with the performance of the actuators. Blocking the output shaft or the hand controls may result in damage to the actuator.

INSERTION DEPHT OF THE ACTUATOR WAVE SOCKET:
The insertion depth of the valves square socket to be assembled to the actuators double square socket should be always less than or equal to the insertion depth the actuator.
As a rule of of thumb for planners of octagon and adaptation is at least:
Insertion depth = size of the specified double squares
Should this not be considered, it may cause a malfunction or ever damage of the actuator.



RECOMMENDATLON:
If possible, use headless screws with nuts and washers for the construction of the valve, so raising the flange is prevented. The use of threaded pins depends on the valve flange. Details can be found in the valve data.

ADVANTAGES OF USING THREADED PINS:
Fast centring of the valve and actuator easier removal of the valve and actuator in the place of assembly, e.g. during maintenance, replacement of components.

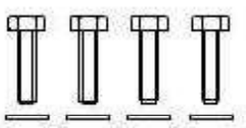
FLANGE HOLE THREAD:

FLANGE	F03	F04	F05	F07	F10	F12	STECKER	GEHÄUSE
SCREW	M5	M6	M6	M8	M10	M12		
MOUNTING TORQUE	5,1 Nm		8,8 Nm	21,5 Nm	44 Nm	65 Nm	0,5 Nm	2,6 Nm

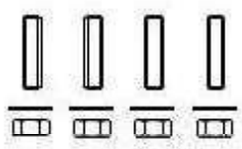
REQUIRED MOUNTING MATERIAL:

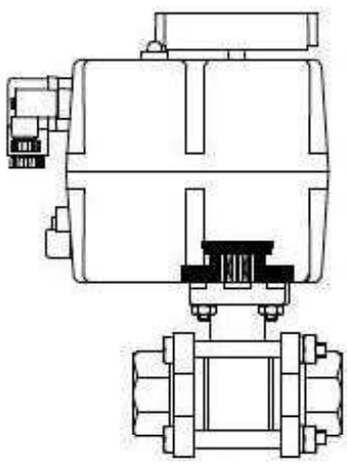
MATERIAL FOR THE DIRECT ACTUATOR DESIGN

WITH SCREWS:
- 4 SCREWS
- 4 WASHERS



ALTERNATIVELY WITH HEADLESS SCREWS:
- 4 HEADLESS SCREWS
- 4 WASHERS
- 4 NUTS



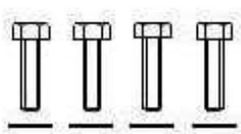


Direct mounting

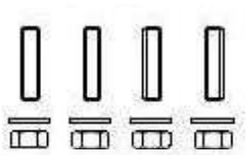
MATERIAL FOR ASSEMBLY - ACTUATOR ON VALVE BRACKET AND ADAPTER

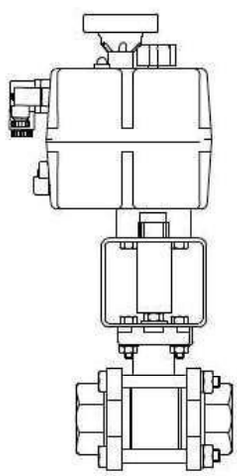
- A BRACKET
- ADAPTER

WITH SCREWS:
- 8 SCREWS
- 8 WASHERS
- 4 NUTS



ALTERNATIVELY WITH HEADLESS SCREWS:
- 8 HEADLESS SCREWS
- 12 NUTS
- 12 SPRING WASHER





Assembling with bracket and adapter

The actuator moves and then stops. The operating LED flashes red or green (see status LED).
>> High torque on the valve due to not removed end stops or solids in the valve. Valve must be checked!
>> Model size of the actuator is too small.

The actuator is in position “open” but the valve is closed of half opened.
>> Actuator is mounted on the valve with a wrong angle. Dismount, turn the actuatorin manual mode to the correct angle, mount it.

The limit switches for end position feedback do not work.
>> Check the wiring. Check the adjustment of the cams so that they trigger shortly before reaching the end position.
>> In load-free interrogation of the limit switch, soot is formed inside. Actuator with gold contact switches are to be used.

The actuator moves, but the valve does not.
>> The connection between actuator and valve is damaged or incorrectly dimensioned.

For other mulfunctions, please contact our technical service department.


C.A.M SERVICE SRL
P30
P22










CAM
VALVOLE INDUSTRIALI 2022





1 - INOX PNEUMATIC ACTUATOR

PNEUMATIC VERTICAL ACTUATOR INOX FM21



Specifications

(MODEL) FM21SX-FM21DX
(SIZE RANGE) 85/108
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) SPRING RETURN
OR DOUBLE ACTING
(BODY MATERIALS) AISI 304
(CONNECTINON) DRILLING ISO 5211 DM 14
F03/F04/F05/F07
(TEMPERATURE) -20 +90C
(OPTIONS) BOX-POSITIONER-COVER

DRILLING ISO 5211/DIN3337



VALORI DI COPPIA (NM) PER PRESSIONE TORQUE MOMENTS VALUES (NM) FOR PRESSIONS					
FM21-DX					
ØXL	**DN**	**3 bar**	**4 bar**	**5 bar**	**6 bar**
85x174	25 ÷ 100	30	40	50	60
FM21-SX					
ØXL	**DN**	**5 bar**	**6 bar**	**7 bar**	**8 bar**
85x174	25 ÷ 100	25	30	35	45

FINECORSA INOX
LIMIT SWITCH INOX 316

SPIA VISIVA
VISUAL SPY

FINECORSA
PNEUMATICO
PNEUMATIC LIMIT SWITCH











COVER

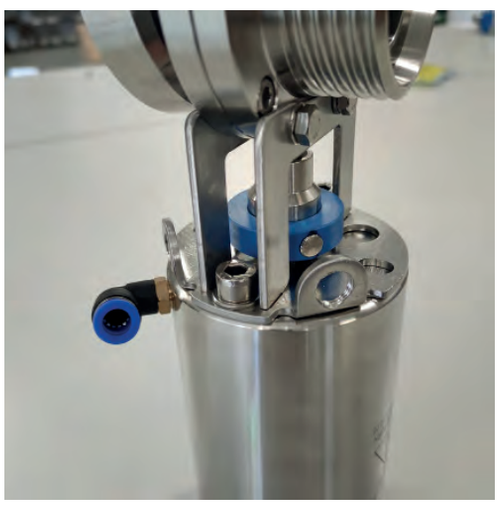
POSIZIONATORE
POSITIONER





INOX PNEUMATIC ACTUATOR

PNEUMATIC VERTICAL ACTUATOR INOX FM21E



Specifications

(MODEL) FM21ESX-FM21EDX
(SIZE RANGE) 85/108
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) SPRING RETURN
OR DOUBLE ACTING
(BODY MATERIALS) AISI 304
(CONNECTINON) DM 14
(TEMPERATURE) -20 +90C
(OPTIONS) DOUBLE EFFECT



VALORI DI COPPIA (NM) PER PRESSIONE TORQUE MOMENTS VALUES (NM) FOR PRESSIONS					
FM21-DX					
ØXL	**DN**	**3 bar**	**4 bar**	**5 bar**	**6 bar**
85x174	25 ÷ 100	30	40	50	60
FM21-SX					
ØXL	**DN**	**5 bar**	**6 bar**	**7 bar**	**8 bar**
85x174	25 ÷ 100	25	30	35	45

INOX 316 INDICATOR CS762



CS BOX

TOP BOX IP65

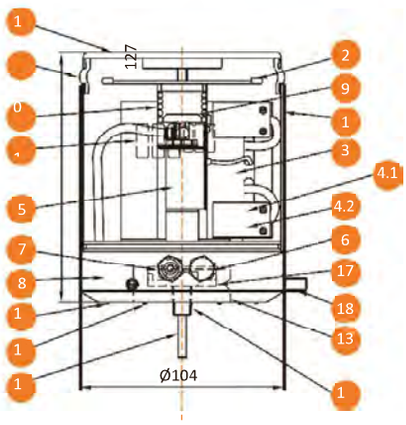
Box micro with 2 mechanical microswitches or with
2 proximity sensors and solenoid valve.

TECHNICAL DATA	SOLENOID VALVE	SENSOR
SINGLE ACT CSBOXSE	1	1-2
DOUBLE ACT CSBOXDE	2	2
OPERATING TEMPERATURE	70 °C	
MEDIUM LUBRIFICANT COMPRESSED AIR	INERT GAS	
PNEUMATIC CONNECTION	G 1/8"	
WORKING PRESSURE	1.5 ÷ 7 bar	
AIR FLUX	200 NI	
PROTECTION GRADE	IP 65	
ELECTRONIC CONNECTION	24 V DC -24/110/220 V AC	
JOURMEY	MIN. 3 mm MAX. 70 mm	
BODY	AISI 304	



FM 21 ACTUATOR





ITEM	PARTS NAME	Q'TY	MATERIAL
1	COVER	1	St. St 304
2	LED LIGHT	1	
3	SWITCH BRACKET	1	St. St 304
4.1	PROXIMITY SENSOR	2	3A 125VAC/30VDV
4.2	MICRO SWITCH	2	3A 125VAC/30VDV
5	ELECTROVALVE	1	DC24 3.0W/C110VC/AC220V
6	E/N CONNECT PIECE	1	St. St 304
7	AIR CONNECTION	1	Cu
8	AIR MANIFOLD	1	P.O.M./ St. St 304
9	HOUSE	1	St. St 304
10	LIGHT SCREEN	1	PC
11	SPRING	1	St. St 304
12	SENSOR PIN	1	St. St 304
13	PLATE	1	St. St 304
14	O-RING	1	NBR
15	O-RING	1	NBR
16	ADAPTER (3/8" NPT)	1	St. St 304
17	O-RING	1	NBR
18	SET SCREW	3	St. St 304
19	TOP COVER	1	St. St 304
20	PCB BOARD	6	

ON DEMAND ACTUATOR

MINI PNEUMATIC ACTUATOR RD32



Specifications

(MODEL) RD32
(SIZE) H 55 MM T 45MM L 65 MM
(SIZE RANGE) 7 NM F03
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) DOUBLE ACTINGT
(BODY MATERIALS) ALLUMINIUM
(CONNECTINON) NAMUR
(TEMPERATURE) -15 +80C

PNEUMATIC ACTUATOR UT



Specifications

(MODEL) UT
(SIZE RANGE) 15-60 NM
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) DOUBLE ACTING, SPRING RETURN
(BODY MATERIALS) TECNOPOLYMER
(CONNECTINON) NAMUR
(TEMPERATURE) -20 +80C

PNEUMATIC ACTUATOR INOX ST



Specifications

(MODEL) ST
(SIZE RANGE) 10-2400 NM
(OPERATING PRESSURE) 10 BAR MAX
(VALVE OPERATION TYPE) DOUBLE ACTING, SPRING RETURN
(BODY MATERIALS) AISI 316
(CONNECTINON) NAMUR
(TEMPERATURE) -20 +80C

PNEUMATIC ACTUATOR INOX ATX



Specifications

(MODEL)	ATX
(SIZE RANGE)	10-2400 NM
(OPERATING PRESSURE)	10 BAR MAX
(VALVE OPERATING TYPE)	DOUBLE ACTING, SPRING RETURN
(BODY MATERIALS)	AISI 316
(CONNECTION)	NAMUR
(TEMPERATURE)	-20+80C

ELECTRIC ACTUATOR AOX



Specifications

(MODEL)	AOX IP68
(SIZE RANGE)	30-5000 NM
(POWER)	220 -380VAC 24VAC-24VCC
(TEMPERATURE)	-20 +70C
(BODY MATERIALS)	ALLUMINIUM

ELECTRIC ACTUATOR VRX

ATEX



Specifications

(MODEL)	VRX
(SIZE RANGE)	25-300 NM
(POWER)	220 -380VAC 24VAC-24VCC
(TEMPERATURE)	-20 +70C
(BODY MATERIALS)	ALLUMINIUM

2 - BRASS BALL VALVES - VALVOLE A SFERA IN OTTONE

2 WAY BALL VALVE VSEEISO



Specifications

(SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) BRASS PN 32/25
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +130C

DN 15	DN 20	DN 25	DN 32	DN 40	DN50
1 Nm	1,1 Nm	1.2 Nm	2 Nm	5 Nm	6 Nm

SOFT OPENING

ART. VSEEISO Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	32	32	32	32	25	25
CODICE	VSEEISO-1/2	VSEEISO-3/4	VSEEISO-1	VSEEISO-1 1/4	VSEEISO-1 1/2	VSEEISO-2



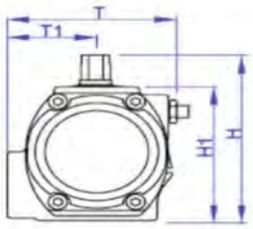
ART. VSEE

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	32	32	32	32	25	25
ATTUATORE	AT32DX	AT32DX	AT32DX	AT40DX	AT40DX	AT40DX
CODICE	VSEE -1/2-AT32DX	VSEE-3/4-AT32DX	VSEE -1-AT32DX	VSEE11/4-AT40DX	VSEE11/2-AT40DX	VSEE-2-AT40DX





ART. VSEE

Valvola a sfera con attuatore RD Doppio Effetto

Ball valves with RD actuator D.E

BASSA PRESSIONE - LOW PRESSUR

H = 55 MM T= 45 MM L= 65 M

SIZE	1/2	3/4	1
PN	32	32	32
ATTUATORE	RD32	RD32	RD32
CODICE	VSEE -1/2-RD32	VSEE-3/4-RD32	VSEE -1-RD32



ART. VSEE

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	32	32	32	32	25	25
ATTUATORE	AT52SX	AT52SX	AT52SX	AT52SX	AT52SX	AT52SX
CODICE	VSEE -1/2-AT52SX	VSEE-3/4-AT52SX	VSEE -1-AT52SX	VSEE11/4-AT52SX	VSEE11/2-AT52SX	VSEE-2-AT52SX



ART. VSEE Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	32	32	32	32	25	25
ATTUATORE	S20	S20	S20	S20	S20	S20
CODICE	VSEE -1/2-S20	VSEE-3/4-S20	VSEE -1-S20	VSEE11/4-S20	VSEE11/2-S20	VSEE-2-S20

2 WAY BALL VALVE VSFFISO

ATEX



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +120C

ART. VSFFISO Valvola a sfera con flangia ISO 5211 - Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
CODICE	VSFFISO-1/4	VSFFISO-3/8	VSFFISO-1/2	VSFFISO-3/4	VSFFISO-1	VSFFISO-11/4
SIZE	1 1/2	2	2 1/2	3		
PN	25	25	25	25		
CODICE	VSFFISO-11/2	VSFFISO-2	VSFFISO-21/2	VSFFISO-3		

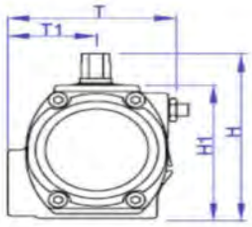


ART. VSDE Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
ATTUATORE	AT40DX	AT40DX	AT40DX	AT40DX	AT40DX	AT40DX
CODICE	VSDE1/4-AT40DX	VSDE3/8-AT40DX	VSDE1/2-AT40DX	VSDE3/4-AT40DX	VSDE1-AT40DX	VSDE11/4-AT40DX
SIZE	1 1/2	2	2 1/2	3		
PN	25	25	25	25		
ATTUATORE	AT40DX	AT63DX	AT63DX	AT63DX		
CODICE	VSDE11/2-AT40DX	VSDE2-AT63DX	VSDE21/2-AT63DX	VSDE3-AT63DX		





ART. VSDE Valvola a sfera con attuatore RD Doppio Effetto

Ball valves with RD actuator D.E

BASSA PRESSIONE - LOW PRESSUR

H = 55 MM T= 45 MM L= 65 MM

SIZE	1/4	3/8	1/2	3/4	1	
PN	16	16	16	16	16	
ATTUATORE	RD32	RD32	RD32	RD32	RD32	
CODICE	VSDE1/4-RD32	VSDE3/8-RD32	VSDE1/2-RD32	VSDE3/4-RD32	VSDE1-RD32	



ART. VSDE Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

BASSA PRESSIONE - LOW PRESSUR

SIZE	1/4	3/8	1/2	3/4	1	2
PN	16	16	16	16	16	16
ATTUATORE	AT32DX	AT32DX	AT32DX	AT32DX	AT32DX	AT52DX
CODICE	VSDE1/4-AT32DX	VSDE3/8-AT32DX	VSDE1/2-AT32DX	VSDE3/4-AT32DX	VSDE1-AT32DX	VSDE2-AT52DX



ART. VSDE Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
ATTUATORE	AT52SX	AT52SX	AT52SX	AT52SX	AT52SX	AT63SX
CODICE	VSDE1/4-AT52SX	VSDE3/8-AT52SX	VSDE1/2-AT52SX	VSDE3/4-AT52SX	VSDE1-AT52SX	VSDE11/4-AT63SX
SIZE	1 1/2	2	2 1/2	3		
PN	25	25	25	25		
ATTUATORE	AT75SX	AT75SX	AT75SX	AT92SX		
CODICE	VSDE11/2-AT75SX	VSDE2-AT75SX	VSDE21/2-AT75SX	VSDE3-AT92SX		



ART. VSDE Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
ATTUATORE	S20	S20	S20	S20	S20	S20
CODICE	VSDE1/4-S20	VSDE3/8-S20	VSDE1/2-S20	VSDE3/4-S20	VSDE1-S20	VSDE11/4-S20
SIZE	1 1/2	2	2 1/2	3		
PN	25	25	25	25		
ATTUATORE	S20	S35	S35	S35		
CODICE	VSDE11/2-S20	VSDE2-S35	VSDE21/2-S35	VSDE3-S35		

3 WAY BALL VALVE VS3LISO - VS3TISO



Specifications

(SIZE RANGE) DN08 TO DN 50, 1/4" TO 2"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) BRASS PN 30 L OR T
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +120C

ART. VS3TISO forata a T - VS3LISO forata a L ISO 5211 Bored Ball as L or T

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	30	30	30	30	20	20
Art. T	VS3TISO-1/4	VS3TISO-3/8	VS3TISO-1/2	VS3TISO-3/4	VS3TISO-1	VS3TISO-11/4
Art. L	VS3LISO-1/4	VS3LISO-3/8	VS3LISO-1/2	VS3LISO-3/4	VS3LISO-1	VS3LISO-11/4
SIZE	1 1/2	2				
PN	16	16				
Art. T	VS3TISO-11/2	VS3TISO-2				
Art. L	VS3LISO-11/2	VS3LISO-2				



ART. VS3TDE Valvola a sfera con attuatore AT Doppio Effetto

ART. VS3LDE Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	30	30	30	30	20	20
ATTUAT.	AT40DX	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX
Art. T	VS3TDE1/4-AT40D	VS3TDE3/8-AT40D	VS3TDE1/2-AT40D	VS3TDE3/4-AT40D	VS3TDE1-AT40D	VS3TDE114-AT52D
Art. L	VS3LDE1/4-AT40D	VS3LDE3/8-AT40D	VS3LDE1/2-AT40D	VS3LDE3/4-AT40D	VS3LDE1-AT40D	VS3LDE114-AT52D
SIZE	1 1/2	2				
PN	16	16				
ATTUAT.	AT63DX	AT63DX				
Art. T	VS3TDE112-AT63D	VS3TDE-2-AT63DX				
Art. L	VS3LDE112-AT63D	VS3LDE-2-AT63DX				



ART. VS3TDE Valvola a sfera con attuatore AT Doppio Effetto

ART. VS3LDE Ball valves with AT actuator D.E

BASSA PRESSIONE - LOW PRESSUR

SIZE	1/4	3/8	1/2
PN	16	16	16
ATTUATORE	AT32DX	AT32DX	AT32DX
Art. T	VS3TDE1/4-AT32D	VS3TDE3/8-AT32D	VS3TDE1/2-AT32D
Art. L	VS3LDE1/4-AT32D	VS3LDE3/8-AT32D	VS3LDE1/2-AT32D



ART. VS3TDE Valvola a sfera con attuatore AT Semplice Effetto

ART. VS3LDE Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
ATTUAT.	AT52SX	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX
Art. T	VS3TDE1/4-AT52S	VS3TDE3/8-AT52S	VS3TDE1/2-AT52S	VS3TDE3/4-AT63S	VS3TDE1-AT63S	VS3TDE114-AT75S
Art. L	VS3LDE1/4-AT52S	VS3LDE3/8-AT52S	VS3LDE1/2-AT52S	VS3LDE3/4-AT63S	VS3LDE1-AT63S	VS3LDE114-AT75S
SIZE	1 1/2	2				
PN	25	25				
ATTUAT.	AT75SX	AT83SX				
Art. T	VS3TDE112-AT75S	VS3TDE2-AT83SX				
Art. L	VS3LDE112-AT75S	VS3LDE2-AT83SX				



ART. VS3TDE Valvola a sfera con attuatore RD Doppio Effetto

ART. VS3LDE Ball valves with RD actuator D.E

BASSA PRESSIONE - LOW PRESSUR

SIZE	1/4	3/8	1/2	3/4	1
PN	16	16	16	16	16
ATTUATORE	RD32	RD32	RD32	RD32	RD32
Art. T	VS3TDE1/4-RD32	VS3TDE3/8-RD32	VS3TDE1/2-RD32	VS3TDE3/4-RD32	VS3TDE1-RD32
Art. L	VS3LDE1/4-RD32	VS3LDE3/8-RD32	VS3LDE1/2-RD32	VS3LDE3/4-RD32	VS3LDE1-RD32



ART. VS3TDE Valvola a sfera con attuatore J4C Elettrico

ART. VS3LDE Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	40	40	40	40	40	25
ATTUATORE	S20	S20	S20	S20	S20	S20
Art. T	VS3TDE1/4-S20	VS3TDE3/8-S20	VS3TDE1/2-S20	VS3TDE3/4-S20	VS3TDE1-S20	VS3TDE11/4-S20
Art. L	VS3LDE1/4-S20	VS3LDE3/8-S20	VS3LDE1/2-S20	VS3LDE3/4-S20	VS3LDE1-S20	VS3LDE11/4-S20
SIZE	1 1/2	2				
PN	25	25				
ATTUATORE	S20	S35				
Art. T	VS3TDE11/2-S20	VS3TDE2-S35				
Art. L	VS3LDE11/2-S20	VS3LDE2-S35				



Specifications 210 BAR

(SIZE RANGE) DN10 TO DN100, 3/8" TO 1"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) BRASS PN 210
(BALL MATERIALS) BRASS
(SEALING MATERIALS) POM
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +80C

ART. VSFFAP Valvola a sfera Ottone 210 Bar - Ball valves 210 Bar

SIZE	3/8	1/2	3/4	1
PN	210	210	210	210
CODICE	VSFFAP-3/8	VSFFAP-1/2	VSFFAP-3/4	VSFFAP-1



ART. VSFFAP

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	3/8	1/2	3/4	1
PN	210	210	210	210
ATTUATORE	AT40DX	AT40DX	AT63DX	AT63DX
CODICE	VSFFAP3/8-AT40D	VSFFAP1/2-AT40D	VSFFAP3/4-AT63D	VSFFAP1-AT63D
KIT	K1BA0003	K1BA0003	K1BA0005	K1BA0005



ART. VSFFAP

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	3/8	1/2	3/4	1
PN	210	210	210	210
ATTUATORE	AT63SX	AT63SX	AT75SX	AT83SX
CODICE	VSFFAP3/8-AT63S	VSFFAP1/2-AT63S	VSFFAP3/4-AT75S	VSFFAP1-AT83S
KIT	K1BA0103	K1BA0103	K1BA0105	K1BA0105



ART. VSFFAP

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	3/8	1/2	3/4	1
PN	210	210	210	210
ATTUATORE	S20	S20	S55	S55
CODICE	VSFFAP3/8-S20	VSFFAP1/2-S20	VSFFAP3/4-S55	VSFFAP1-S55
KIT	K1BA0003	K1BA0003	K1BA0005	K1BA0005

3 - INOX BALL VALVES - VALVOLE IN ACCIAIO INOX

2 WAY BALL VALVE VSXFFISO



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 PN 63
(BALL MATERIALS) INOX 316
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +180C

ART. VSXFFISO Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
CODICE	VSXFFISO-1/4	VSXFFISO-3/8	VSXFFISO-1/2	VSXFFISO-3/4	VSXFFISO-1	VSXFFISO-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
CODICE	VSXFFISO-11/2	VSXFFISO-2	VSXFFISO-21/2	VSXFFISO-3	VSXFFISO-4	



ART. VSXDE Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTUATORE	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX
CODICE	VSXDE1/4-AT40DX	VSXDE3/8-AT40D	VSXDE1/2-AT40D	VSXDE3/4-AT40D	VSXDE1-AT52D	VSXDE114-AT52D
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATTUATORE	AT63DX	AT63DX	AT83DX	AT92DX	AT105DX	
CODICE	VSXDE112-AT63D	VSXDE2-AT63DX	VSXDE212-AT83D	VSXDE3-AT92DX	VSXDE4-AT105DX	



ART. VSXDE

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTUATORE	AT52SX	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX
CODICE	VSXDE1/4-AT52SX	VSXDE3/8-AT52S	VSXDE1/2-AT52S	VSXDE3/4-AT63S	VSXDE1-AT63S	VSXDE114-AT75S
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATTUATORE	AT75SX	AT83SX	AT105SX	AT125SX	AT140SX	
CODICE	VSXDE112-AT75S	VSXDE2-AT83S	VSXDE212-AT105S	VSXDE3-AT125S	VSXDE4AT140S	



ART. VSXDE

Valvola a sfera con attuatore UT Doppio Effetto

Ball valves with UT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTUATORE	UT10	UT10	UT10	UT10	UT10	UT13
CODICE	VSXDE1/4-UT10	VSXDE3/8-UT10	VSXDE1/2-UT10	VSXDE3/4-UT10	VSXDE1-UT10	VSXDE11/4-UT13
SIZE	1 1/2	2				
PN	63	63				
ATTUATORE	UT13	UT18				
CODICE	VSXDE11/2-UT13	VSXDE2-UT18				



ART. VSXDE

Valvola a sfera con attuatore UT Semplice Effetto

Ball valves with UT actuator S.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTUATORE	UT10S2	UT10S2	UT13S3	UT13S3	UT18S4	UT18S4
CODICE	VSXDE1/4-UT10S2	VSXDE-3/8UT10S2	VSXDE1/2-UT13S3	VSXDE3/4-UT13S3	VSXDE1-UT18S4	VSXDE114-UT18S4



ART. VSXDE

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTUATORE	S20	S20	S20	S20	S20	S20
CODICE	VSXDE1/4-S20	VSXDE3/8-S20	VSXDE1/2-S20	VSXDE3/4-S20	VSXDE1-S20	VSXDE11/4-S20
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATTUATORE	S35	S35	S85	S140	S300	
CODICE	VSXDE11/2-S35	VSXDE2-S35	VSXDE21/2-S85	VSXDE3-S140	VSXDE4-S300	

140 Bar



Specifications 140 BAR

(SIZE RANGE) DN08 TO DN80, 1/4" TO 3"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX PN 140
(BALL MATERIALS) INOX
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +150C

ART. VSX54 Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	140	140	140	140	140	140
CODICE	VSX54-1/4	VSX54-3/8	VSX54-1/2	VSX54-3/4	VSX54-1	VSX54-11/4
SIZE	1 1/2	2				
PN	140	140				
CODICE	VSX54-11/2	VSX54-2				



ART. VSX54 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	140	140	140	140	140	140
ATTUATORE	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX
CODICE	VSX54-1/4-AT40DX	VSX54-3/8-AT40D	VSX54-1/2-AT40D	VSX54-3/4-AT40D	VSX54-1-AT52D	VSX54-114-AT52D
SIZE	1 1/2	2				
PN	140	140				
ATTUATORE	AT63DX	AT83DX				
CODICE	VSX54-112-AT63D	VSX54-2-AT83DX				



ART. VSX54

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	140	140	140	140	140	140
ATTUATORE	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT75SX
CODICE	VSX54-1/4-AT52SX	VSX54-3/8-AT52S	VSX54-1/2-AT52S	VSX54-3/4-AT63S	VSX54-1-AT75S	VSX54-114-AT75S
SIZE	1 1/2	2				
PN	140	140				
ATTUATORE	AT83SX	AT92SX				
CODICE	VSX54-112- AT83SX	VSX54-2-AT92S				



ART. VSX54

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	140	140	140	140	140	140
ATTUATORE	S20	S20	S20	S20	S35	S35
CODICE	VSX54-1/4-S20	VSX54-3/8-S20	VSX54-1/2-S20	VSX54-3/4-S20	VSX54-1-S35	VSX54-11/4-S35
SIZE	1 1/2	2				
PN	140	140				
ATTUATORE	S55	S85				
CODICE	VSX54-11/2-S55	VSX54-2-S85				

200 Bar-
3000WOG



Specifications 200 BAR

(SIZE RANGE) DN10 TO DN25, 3/8" TO 1"
DN10-DN25 , 3/8-1
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX PN 3000 WOG-200 BAR
(BALL MATERIALS) INOX
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +150C

ART. VSX54E Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	3/8	1/2	3/4	1
PN	200	200	200	200
CODICE	VSX54E-3/8	VSX54E-1/2	VSX54E-3/4	VSX54E-1



ART. VSX54E Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	3/8	1/2	3/4	1
PN	200	200	200	200
ATTUATORE	AT40DX	AT52DX	AT63DX	AT63DX
CODICE	VSX54E-3/8-AT40D	VSX54E-1/2-AT52D	VSX54E-3/4-AT63D	VSX54E-1-AT63D



ART. VSX54E

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	3/8	1/2	3/4	1
PN	200	200	200	200
ATTUATORE	AT52SX	AT63SX	AT75SX	AT75SX
CODICE	VSX54E-3/8-AT52S	VSX54E-1/2-AT63S	VSX54E-3/4-AT75S	VSX54E-1-AT75S



ART. VSX54E

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	3/8	1/2	3/4	1
PN	200	200	200	200
ATTUATORE	S20	S20	S55	S55
CODICE	VSX54E-3/8-S20	VSX54E-1/2-S20	VSX54E-3/4-S55	VSX54E-1-S55

2 WAY BALL VALVE CAMVI20/20R



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) AISI 316 PN 100-64
(DISC MATERIALS) INOX 316
(SEALING MATERIALS) PTFE - DELRIN
(TEMPERATURE) -10 +180C

ON REQUEST:
800PSI-3000PSI
2500PSI-6000PSI
PTFE + CARBON GRAFITE
BSP OR NPT MALE AND FAMELE ENDS
SW-BW ENDS
FIRE SAFE
ANTISTATIC DEVICE
TA-LUFT EXECUTION
EXECUTION FOR GAS SERVICE
DEGREASING FOR OXIGEN

ART. CAMVI20 Valvola a sfera con leva - Ball valves with lever

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
CODICE	CAMVI20-1/4	CAMVI20-3/8	CAMVI20-1/2	CAMVI20-3/4	CAMVI20-1	CAMVI20-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	100	100	64	64	64	
CODICE	CAMVI20-11/2	CAMVI20-2	CAMVI20-21/2	CAMVI20-3	CAMVI20-4	





Mounting Bracket

ART. CAMVI20R Valvola a sfera ISO 5211 – Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
CODICE	CAMVI20R-1/4	CAMVI20R-3/8	CAMVI20R-1/2	CAMVI20R-3/4	CAMVI20R-1	CAMVI20R-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	100	100	64	64	64	
CODICE	CAMVI20R-11/2	CAMVI20R-2	CAMVI20R-21/2	CAMVI20R-3	CAMVI20R-4	



ART. CAMVI20R

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	AT52DX	AT52DX	AT63DX	AT63DX	AT63DX	AT92DX
CODICE	CVI20R-14-AT52D	CVI20R-38-AT52D	CVI20R-12-AT63D	CVI20R-34-AT63D	CVI20R-1-AT63D	CVI20R-114-AT92D
SIZE	1 1/2	2				
PN	100	100				
ATTU.	AT105DX	AT105DX				
CODICE	CVI20R-112-AT105D	CVI20R-2-AT105D				



ART. CAMVI20R

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX	AT105SX
CODICE	CVI20R-14-AT63S	CVI20R-38-AT63S	CVI20R-12-AT75S	CVI20R-34-AT75S	CVI20R-1-AT83S	CVI20R-114-AT105S
SIZE	1 1/2	2				
PN	100	100				
ATTU.	AT105SX	AT125SX				
CODICE	CVI20R-112-AT105S	CVI20R-2-AT125S				



ART. CAMVI20R

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C

Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	S35	S35	S35	S55	S55	S140
CODICE	CVI20R-14-S35	CVI20R-38-S35	CVI20R-12-S35	CVI20R-34-S55	CVI20R-1-S55	CVI20R-114-S140
SIZE	1 1/2	2				
PN	100	100				
ATTU.	S140	S300				
CODICE	CVI20R-112-S140	CVI20R-2-S300				

3 PZ BALL VALVE VSX3PISO



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 PN 63
(BALL MATERIALS) INOX 316
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -25 +180C

ART. VSX3PDE — **Valvola a sfera a 3 pezzi ISO 5211 filettata gas**
Ball valves with ISO 5211

ART. VSX3PSW — **Valvola a sfera a 3 pezzi ISO 5211 a saldare di tasca**
SW Ball valves with ISO 5211

ART. VSX3PBW — **Valvola a sfera a 3 pezzi ISO 5211 a saldare di testa**
BW Ball valves with ISO 5211



BW



SW

BW BUTT WELD CONNECTIONS **SW SOCKET WELD CONNECTION**

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
GAS	VSX3PISO-1/4	VSX3PISO-3/8	VSX3PISO-1/2	VSX3TISO-3/4	VSX3PISO-1	VSX3PISO-11/4
SW	VSX3PSW-1/4	VSX3PSW-3/8	VSX3PSW-1/2	VSX3PSW-3/4	VSX3PSW-1	VSX3PSW-11/4
BW	VSX3PBW-1/4	VSX3PBW-3/8	VSX3PBW-1/2	VSX3PBW-3/4	VSX3PBW-1	VSX3PBW-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
GAS	VSX3PISO-11/2	VSX3PISO-2	VSX3PISO-21/2	VSX3PISO-3	VSX3PISO-4	
SW	VSX3PSW-11/2	VSX3PSW-2	VSX3PSW-21/2	VSX3PSW-3	VSX3PSW-4	
BW	VSX3PBW-11/2	VSX3PBW-2	VSX3PBW-21/2	VSX3PBW-3	VSX3PBW-4	



ART. VSX3PDE Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX3PSW Ball valves with AT actuator D.E

ART. VSX3PBW

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATT	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX
GAS	VSX3PDE1/4-AT40D	VSX3PDE3/8-AT40D	VSX3PDE1/2-AT40D	VSX3PDE3/4-AT40D	VSX3PDE1-AT52D	VSX3PDE114-AT52D
SW	VSX3PSW1/4-AT40D	VSX3PSW3/8-AT40D	VSX3PSW1/2-AT40D	VSX3PSW3/4-AT40D	VSX3PSW1-AT52D	VSX3PSW114-AT52D
BW	VSX3PBW1/4-AT40D	VSX3PBW3/8-AT40D	VSX3PBW1/2-AT40D	VSX3PBW3/4-AT40D	VSX3PBW1-AT52D	VSX3PBW114-AT52D
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATT.	AT63DX	AT63DX	AT83DX	AT92DX	AT105DX	
GAS	VSX3PDE112-AT63D	VSX3PDE2-AT63D	VSX3PDE212-AT83D	VSX3PDE3-AT92D	VSX3PDE4AT105D	
SW	VSX3PSW112-AT63D	VSX3PSW2-AT63D	VSX3PSW212-AT83D	VSX3PSW3-AT92D	VSX3PSW4AT105D	
BW	VSX3PBW112-AT63D	VSX3PBW2-AT63D	VSX3PBW212-AT83D	VSX3PBW3-AT92D	VSX3PBW4AT105D	



ART. VSX3PDE Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

ART. VSX3PSW 10 Spring Single Acting

ART. VSX3PBW

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATT	AT52SX	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX
GAS	VSX3PDE1/4-AT52S	VSX3PDE3/8-AT52S	VSX3PDE1/2-AT52S	VSX3PDE3/4-AT63S	VSX3PDE1-AT63S	VSX3PDE114-AT75S
SW	VSX3PSW1/4-AT52S	VSX3PSW3/8-AT52S	VSX3PSW1/2-AT52S	VSX3PSW3/4-AT63S	VSX3PSW1-AT63S	VSX3PSW114-AT75S
BW	VSX3PBW1/4-AT52S	VSX3PBW3/8-AT52S	VSX3PBW1/2-AT52S	VSX3PBW3/4-AT63S	VSX3PBW1-AT63S	VSX3PBW114-AT75S
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATT.	AT75SX	AT83SX	AT105SX	AT125SX	AT140SX	
GAS	VSX3PDE112-AT75S	VSX3PDE2-AT83S	VSX3PDE212AT105S	VSX3PDE3-AT125S	VSX3PDE4-AT140S	
SW	VSX3PSW112-AT75S	VSX3PSW2-AT83S	VSX3PSW212AT105S	VSX3PSW3-AT125S	VSX3PSW4AT140S	
BW	VSX3PBW112-AT75S	VSX3PBW2-AT83S	VSX3PBW212AT105S	VSX3PBW3-AT125S	VSX3PBW4AT140S	



ART. VSX3PDE Valvola a sfera con attuatore J4C Elettrico

ART. VSX3PSW Ball valves with J4C Electric actuator

ART. VSX3PBW

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATT	S20	S20	S20	S20	S20	S20
GAS	VSX3PDE1/4-S20	VSX3PDE3/8-S20	VSX3PDE1/2-S20	VSX3PDE3/4-S20	VSX3PDE1-S20	VSX3PDE11/4-S20
SW	VSX3PSW1/4-S20	VSX3PSW3/8-S20	VSX3PSW1/2-S20	VSX3PSW3/4-S20	VSX3PSW1-S20	VSX3PSW11/4-S20
BW	VSX3PBW1/4-S20	VSX3PBW3/8-S20	VSX3PBW1/2-S20	VSX3PBW3/4-S20	VSX3PBW1-S20	VSX3PBW11/4-S20
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
ATT.	S35	S35	S85	S140	S300	
GAS	VSX3PDE11/2-S35	VSX3PDE2-S35	VSX3PDE21/2-S85	VSX3PDE3-S140	VSX3PDE4-S300	
SW	VSX3PSW11/2-S35	VSX3PSW2-S35	VSX3PSW21/2-S85	VSX3PSW3-S140	VSX3PSW4-S300	
BW	VSX3PBW11/2-S35	VSX3PBW2-S35	VSX3PBW21/2-S85	VSX3PBW3-S140	VSX3PBW4-S300	



Specifications PN 63

(SIZE RANGE) DN08 TO DN100,
1/4" TO 4" ISO 228-BSP
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 63-16
SANDBLASTEDS
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
BUTT WELDING
SOCKET WELDING
INTEGRAL SEAL
CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20-170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20+200C
CONNECTION : NPT

ART. VSX3PIT — Valvola a sfera a 3 pezzi ISO 5211 filettata gas

Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	40	40	25
CODICE	VSX3PIT-1/4	VSX3PIT-3/8	VSX3PIT-1/2	VSX3PIT-3/4	VSX3PIT-1	VSX3PIT-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	25	25	25	16	16	
CODICE	VSX3PIT-11/2	VSX3PIT-2	VSX3PIT-21/2	VSX3PIT-3	VSX3PIT-4	



ART. VSX3PIT — Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	40	40	25
ATT	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX
COD.	VSX3PIT1/4-AT40D	VSX3PIT3/8-AT40D	VSX3PIT1/2-AT40D	VSX3PIT3/4-AT40D	VSX3PIT1-AT52D	VSX3PIT114-AT52D
SIZE	1 1/2	2	2 1/2	3	4	
PN	25	25	25	16	16	
ATT.	AT63DX	AT63DX	AT83DX	AT92DX	AT105DX	
COD.	VSX3PIT 112-AT63D	VSX3PIT2-AT63D	VSX3PIT212-AT83D	VSX3PIT3-AT92D	VSX3PIT4AT105D	



ART. VSX3PIT

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	40	40	25
ATT	AT52SX	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX
COD.	VSX3PIT1/4-AT52S	VSX3PIT3/8-AT52S	VSX3PIT1/2-AT52S	VSX3PIT3/4-AT63S	VSX3PIT1-AT63S	VSX3PIT114-AT75S
SIZE	1 1/2	2	2 1/2	3	4	
PN	25	25	25	16	16	
ATT.	AT75SX	AT83SX	AT105SX	AT125SX	AT140SX	
COD.	VSX3PIT112-AT75S	VSX3PIT2-AT83S	VSX3PIT212AT105S	VSX3PIT3-AT125S	VSX3PIT4-AT140S	



ART. VSX3PIT

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	40	40	25
ATT	S20	S20	S20	S20	S20	S20
COD.	VSX3PIT1/4-S20	VSX3PIT3/8-S20	VSX3PIT1/2-S20	VSX3PIT3/4-S20	VSX3PIT1-S20	VSX3PIT11/4-S20
SIZE	1 1/2	2	2 1/2	3	4	
PN	25	25	25	16	16	
ATT.	S35	S35	S85	S140	S300	
COD.	VSX3PIT11/2-S35	VSX3PIT2-S35	VSX3PIT21/2-S85	VSX3PIT3-S140	VSX3PIT4-S300	



Specifications PN 100

(SIZE RANGE) DN08 TO DN100,
1/4" TO 4" ISO 228-BSP
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
BUTT WELDING
SOCKET WELDING
INTEGRAL SEAL
CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D
T4 ZONE 1-2
M.O.C.A. CE 1935/2004

ART. VSX64

Valvola a sfera ISO 5211 filettata gas

Ball valves with ISO 5211

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C
CONNECTION : NPT

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
CODICE	VSX64-1/4	VSX64-3/8	VSX64-1/2	VSX64-3/4	VSX64-1	VSX64-11/4
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
CODICE	VSX64-11/2	VSX64-2	VSX64-21/2	VSX64-3		



ART. VSX64

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATT	AT40DX	AT40DX	AT40DX	AT63DX	AT63DX	AT63DX
GAS	VSX64-1/4-AT40D	VSX64-3/8-AT40D	VSX64-1/2-AT40D	VSX64-3/4-AT63D	VSX64-1-AT63D	VSX64-11/4-AT63D
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
ATT.	AT63DX	AT75DX	AT83DX	AT92DX		
GAS	VSX64-11/2-AT63D	VSX64-2-AT75D	VSX64-21/2-AT83D	VSX64-3-AT92D		



ART. VSX64

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATT	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT75SX
COD.	VSX64-1/4-AT52S	VSX64-3/8-AT52S	VSX64-1/2-AT52S	VSX64-3/4-AT63S	VSX64-1-AT75S	VSX64-11/4-AT75S
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
ATT.	AT83SX	AT92SX	AT105SX	AT125SX		
COD.	VSX64-11/2-AT83S	VSX64-2-AT92S	VSX64-212-AT105S	VSX64-3-AT125S		



ART. VSX64

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATT	S20	S20	S20	S20	S35	S35
COD.	VSX64-1/4-S20	VSX64-3/8-S20	VSX64-1/2-S20	VSX64-3/4-S20	VSX64-1-S35	VSX64-11/4-S35
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
ATT.	S55	S55	S85	S140		
COD.	VSX64-11/2-S55	VSX64-2-S55	VSX64-21/2-S85	VSX64-3-S140		

Specifications PN 200 SABBIATA
Sandblasted



(SIZE RANGE) DN15 TO DN50,
1/2" TO 2" ISO 228 - BSP
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 PN 200-64
(BALL MATERIALS) INOX 316
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
BUTT WELDING
SOCKET WELDING
INTEGRAL SEAL
CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20 +200C
CONNECTION : NPT

ART. VSX65 — **Valvola a sfera ISO 5211 filettata gas**

Ball valves with ISO 5211

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	200	200	160	100	64	64
CODICE	VSX65-1/2	VSX65-3/4	VSX65-1	VSX65-11/4	VSX65-11/2	VSX65-2



ART. VSX65 — **Valvola a sfera con attuatore AT Doppio Effetto**

Ball valves with AT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	200	200	160	100	64	64
ATT	AT40DX	AT52DX	AT52DX	AT63DX	AT632DX	AT75DX
COD.	VSX65-1/2-AT40D	VSX65-3/4-AT52D	VSX65-1-AT52D	VSX65-11/4-AT63D	VSX65-11/2-AT63D	VSX65-2-AT75D



ART. VSX65

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	200	200	160	100	64	64
ATT	AT52SX	AT63SX	AT75SX	AT75SX	AT83SX	AT92SX
COD.	VSX65-1/2-AT52S	VSX65-3/4-AT63S	VSX65-1-AT75S	VSX65-11/4-AT75S	VSX65-11/2-AT83S	VSX65-2-AT92S



ART. VSX65

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	200	200	160	100	64	64
ATT	S20	S20	S35	S35	S55	S55
COD	VSX65-1/2-S20	VSX65-3/4-S20	VSX65-1-S35	VSX65-11/4-S35	VSX65-11/2-S55	VSX65-2-S55



Specifications PN 200 BAR

(SIZE RANGE) , 1/4" TO 1"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 200/160
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
BUTT WELDING
SOCKET WELDING
INTEGRAL SEAL
CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20 +200C
CONNECTION : NPT

ART. VSX52 Valvola a sfera ISO 5211 filettata gas Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1
PN	200	200	200	200	200
CODICE	VSX52-1/4	VSX52-3/8	VSX52-1/2	VSX52-3/4	VSX52-1



ART. VSX52 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1
PN	200	200	200	200	200
ATT	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
CODICE	VSX52-1/4-AT40D	VSX52-3/8-AT40D	VSX52-1/2-AT52D	VSX52-3/4-AT63D	VSX52-1-AT63D



ART. VSX52

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1
PN	200	200	200	200	20
ATT	AT63SX	AT63SX	AT63SX	AT75SX	AT83SX
CODICE	VSX52-1/4-AT63S	VSX52-3/8-AT63S	VSX52-1/2-AT63S	VSX52-3/4-AT75S	VSX52-1-AT83S



ART. VSX52

Valvola a sfera con attuatore J4C elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1
PN	200	200	200	200	200
ATT	S20	S20	S20	S35	S35
CODICE	VSX52-1/4-S20	VSX52-3/8-S20	VSX52-1/2-S20	VSX52-3/4-S35	VSX52-1-S35



Specifications PN 400 BAR

(SIZE RANGE) 1/4" TO 1"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) DEVLON (NO WATER)
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +125C

ON REQUEST:
PN 250 SEAL PTFE VSX-50P FOR WATER
ANTISTATIC DEVICE ATEX II 2 G-D T4
CONNECTION: NPT FEMALE/FEMALE THREAD

ART. VSX50 Valvola a sfera ISO 5211 filettata gas Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
CODICE	VSX50-1/4	VSX50-3/8	VSX50-1/2	VSX50-3/4	VSX50-1



ART. VSX50 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	AT63DX	AT63DX	AT63DX	AT75DX	AT75DX
CODICE	VSX50-1/4-AT63D	VSX50-3/8-AT63D	VSX50-1/2-AT63D	VSX50-3/4-AT75D	VSX50-1-AT75D



ART. VSX50

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	AT75SX	AT75SX	AT83SX	AT92SX	AT92SX
CODICE	VSX50-1/4-AT75S	VSX50-3/8-AT75S	VSX50-1/2-AT83S	VSX50-3/4-AT92S	VSX50-1-AT92S



ART. VSX50

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	S35	S35	S35	S55	S55
CODICE	VSX50-1/4-S35	VSX50-3/8-S35	VSX50-1/2-S35	VSX50-3/4-S55	VSX50-1-S55

ENOLOGICAL BALL VALVE PN 16

2 WAY BALL VALVE VSX72 - VSX73



Specifications PN 16/6
VSX72 AISI 304L VSX73 AISI 316L

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(CONNECTION:) CLAMP BS 4825
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16/6
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND ELECTRIC
ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX72 **Valvola a sfera CLAMP BS AISI 304** **Ball valves with ISO 5211**
ART. VSX73 **Valvola a sfera CLAMP BS AISI 316** **Ball valves with ISO 5211**

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	1	1 1/2	2	2 1/2	3	4
PN	16	16	16	16	10	10
CODICE	VSX72-1	VSX72-11/2	VSX72-2	VSX72-21/2	VSX72-3	VSX72-4



ART. VSX72 **Valvola a sfera con attuatore AT Doppio Effetto**

ART. VSX73 **Ball valves with AT actuator D.E**

SIZE	1	1 1/2	2	2 1/2	3	4
PN	16	16	16	16	10	10
ATT	AT52DX	AT63DX	AT75DX	AT83DX	AT83DX	AT105DX
CODICE	VSX72-1-AT52D	VSX72-11/2-AT63D	VSX72-2-AT75D	VSX72-21/2-AT83D	VSX72-3-AT83D	VSX72-4-AT105D



ART. VSX72 Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX73 Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1	1 1/2	2	2 1/2	3	4
PN	16	16	16	16	10	10
ATT	AT63SX	AT83SX	AT83SX	AT105SX	AT125SX	AT125SX
CODICE	VSX72-1-AT63S	VSX72-11/2-AT83S	VSX72-2-AT83S	VSX72-212-AT105S	VSX72-3-AT125S	VSX72-4-AT125S



ART. VSX72 Valvola a sfera con attuatore J4C Elettrico

ART. VSX73 Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1	1 1/2	2	2 1/2	3	4
PN	16	16	16	16	10	10
ATT	S20	S35	S55	S85	S85	S300
CODICE	VSX72-1-S20	VSX72-11/2-S35	VSX72-2-S55	VSX72-21/2-S85	VSX72-3-S85	VSX72-4-S300



Specifications PN 16/6
VSX72A AISI 304L VSX73A AISI 316L

(SIZE RANGE) DN10 TO DN100,
(CONNECTION:) CLAMP ISO 2852
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16/6
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX72A **Valvola a sfera CLAMP ISO 2852 AISI 304** **Ball valves with ISO 5211**
ART. VSX73A **Valvola a sfera CLAMP ISO 2852 AISI 316** **Ball valves with ISO 5211**

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	10/10	10/15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX72A-10	VSX72A-15	VSX72A-20	VSX72A-25	VSX72A-32	VSX72A-40
SIZE	50	65	80	100		
PN	16	10	10	10		
CODICE	VSX72A-50	VSX72A-65	VSX72A-80	VSX72A-100		



ART. VSX72A **Valvola a sfera con attuatore AT Doppio Effetto**

ART. VSX73A **Ball valves with AT actuator D.E**

SIZE	10/10	10/15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VSX72A-10-AT40D	VSX72A-15-AT40D	VSX72A-20-AT40D	VSX72A-25-AT52D	VSX72A-32-AT52D	VSX72A-40-AT63D
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	AT75DX	AT83DX	AT83DX	AT105DX		
CODICE	VSX72A-50-AT75D	VSX72A-65-AT83D	VSX72A-80-AT83D	VSX72A100-AT105D		



ART. VSX72A

ART. VSX73A

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	10/10	10/15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX	AT83SX
CODICE	VSX72A-10-AT52S	VSX72A-15-AT52S	VSX72A-20-AT63S	VSX72A-25-AT63S	VSX72A-32-AT75S	VSX72A-40-AT83S
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	AT83SX	AT105SX	AT125SX	AT125SX		
CODICE	VSX72A-50-AT83S	VSX72A-65-AT105S	VSX72A-80-AT125S	VSX72A100-AT125S		



ART. VSX72A

ART. VSX73A

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	10/10	10/15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	VSX72A-10-S20	VSX72A-15-S20	VSX72A-20-S20	VSX72A-25-S20	VSX72A-32-S35	VSX72A-40-S35
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	S55	S85	S85	S300		
CODICE	VSX72A-50-S55	VSX72A-65-S85	VSX72A-80-S85	VSX72A100-S300		

2 WAY BALL VALVE VSX72B-VSX73B



Specifications PN 16/6
VSX72B AISI 304L VSX73B AISI 316L

(SIZE RANGE) DN10 TO DN100
(CONNECTION:) CLAMP DIN32676
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16/6
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX72B **Valvola a sfera CLAMP DIN 32676 AISI 304** **Ball valves with ISO 5211**
ART. VSX73B **Valvola a sfera CLAMP DIN 32676 AISI 316** **Ball valves with ISO 5211**

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX72B-10	VSX72B-15	VSX72B-20	VSX72B-25	VSX72B-32	VSX72B-40
SIZE	50	65	80	100		
PN	16	10	10	10		
CODICE	VSX72B-50	VSX72B-65	VSX72B-80	VSX72B-100		



ART. VSX72B **Valvola a sfera con attuatore AT Doppio Effetto**

ART. VSX73B **Ball valves with AT actuator D.E**

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VSX72B-10-AT40D	VSX72B-15-AT40D	VSX72B-20-AT40D	VSX72B-25-AT52D	VSX72B-32-AT52D	VSX72B-40-AT63D
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	AT75DX	AT83DX	AT83DX	AT105DX		
CODICE	VSX72B-50-AT75D	VSX72B-65-AT83D	VSX72B-80-AT83D	VSX72B100-AT105D		



ART. VSX72B Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX73B Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX	AT83SX
CODICE	VSX72B-10-AT52S	VSX72B-15-AT52S	VSX72B-20-AT63S	VSX72B-25-AT63S	VSX72B-32-AT75S	VSX72B-40-AT83S
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	AT83SX	AT105SX	AT125SX	AT125SX		
CODICE	VSX72B-50-AT83S	VSX72B-65-AT105S	VSX72B-80-AT125S	VSX72B100-AT125S		



ART. VSX72B Valvola a sfera con attuatore J4C Elettrico

ART. VSX73B Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	VSX72B-10-S20	VSX72B-15-S20	VSX72B-20-S20	VSX72B-25-S20	VSX72B-32-S35	VSX72B-40-S35
SIZE	50	65	80	100		
PN	16	10	10	10		
ATTU.	S55	S85	S85	S300		
CODICE	VSX72B-50-S55	VSX72B-65-S85	VSX72B-80-S85	VSX72B100-S300		

MOCA



Specifications PN 16/6
VSX72 AISI 304L VSX73 AISI 316L

(SIZE RANGE)1/2" TO 4"
(CONNECTION)WELDING BS
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16/6
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX72W **Valvola a sfera WELDING BS AISI 304** **Ball valves with ISO 5211**
ART. VSX73W **Valvola a sfera WELDING BS AISI 316** **Ball valves with ISO 5211**

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	16	16	16	16	16	16
CODICE	VSX72W-1/2	VSX72W-3/4	VSX72W-1	VSX72W-11/2	VSX72W-2	VSX72W-21/2
SIZE	3	4				
PN	10	10				
CODICE	VSX72W-3	VSX72W-4				



ART. VSX72W **Valvola a sfera con attuatore AT Doppio Effetto**

ART. VSX73W **Ball valves with AT actuator D.E**

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	16	16	16	16	16	16
ATT	AT40DX	AT40DX	AT52DX	AT63DX	AT75DX	AT83DX
CODICE	VSX72W-1/2-AT40D	VSX72W-3/4-AT40D	VSX72W-1-AT52D	VSX72W-11/2-AT63D	VSX72W-2-AT75D	VSX72-21/2-AT83D
SIZE	3	4				
PN	10	10				
ATT	AT83DX	AT105DX				
CODICE	VSX72W-3-AT83D	VSX72W-4-AT105D				



ART. VSX72W Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX73W Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	16	16	16	16	16	16
ATT	AT52SX	AT52SX	AT63SX	AT83SX	AT83SX	AT105SX
CODICE	VSX72W-1/2-AT52S	VSX72W-3/4-AT52S	VSX72W-1-AT63S	VSX72W-11/2-AT83S	VSX72W-2-AT83S	VSX72W212-AT105S
SIZE	3	4				
PN	10	10				
ATT	AT125SX	AT125SX				
CODICE	VSX72W-3-AT125S	VSX72W-4-AT125S				



ART. VSX72W Valvola a sfera con attuatore J4C Elettrico

ART. VSX73W Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	16	16	16	16	16	16
ATT	S20	S20	S20	S35	S55	S85
CODICE	VSX72W-1/2-S20	VSX72W-3/4-S20	VSX72W-1-S20	VSX72W-11/2-S35	VSX72W-2-S55	VSX72W-212-S85
SIZE	3	4				
PN	10	10				
ATT	S85	S300				
CODICE	VSX72W-3-S85	VSX72W-4-S300				



SPECIFICATIONS
VSX74 AISI 304L VSX75 AISI 316L

(SIZE RANGE) 1/4" TO 4" ISO 228-BSP
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16/6
(DISC MATERIALS) INOX A304/A316
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C

ON REQUEST:
CONNECTION: ISO 228 FEMALE/MALE THREAD
CONNECTION: ISO 228 MALE/MALE THREAD
M.O.C.A. CE 1935/2004

ART. VSX74 Valvola a sfera aisi 304 ISO 5211 filettata gas — Ball valves with ISO 5211
ART. VSX75 Valvola a sfera aisi 316 ISO 5211 filettata gas — Ball valves with ISO 5211

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
CODICE	VSX74-1/4	VSX74-3/8	VSX74-1/2	VSX74-3/4	VSX74-1	VSX74-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
CODICE	VSX74-11/2	VSX74-2	VSX74-21/2	VSX74-3	VSX74-4	



ART. VSX74 Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX75 Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
ATT	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX
GAS	VSX74-1/4-AT40D	VSX74-3/8-AT40D	VSX74-1/2-AT40D	VSX74-3/4-AT40D	VSX74-1-AT52D	VSX74-11/4-AT52D
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
ATT.	AT63DX	AT75DX	AT83DX	AT92DX	AT105DX	
GAS	VSX74-11/2-AT63D	VSX74-2-AT75D	VSX74-21/2-AT83D	VSX74-3-AT92D	VSX74-4-AT105D	



ART. VSX74 — Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX75 — Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
ATT	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX	AT75SX
COD.	VSX74-1/4-AT52S	VSX74-3/8-AT52S	VSX74-1/2-AT63S	VSX74-3/4-AT63S	VSX74-1-AT75S	VSX74-11/4-AT75S
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
ATT.	AT83SX	AT83SX	AT105SX	AT125SX	AT125SX	
COD.	VSX74-11/2-AT83S	VSX74-2-AT83S	VSX74-212-AT105S	VSX74-3-AT125S	VSX74-4-AT125S	



ART. VSX74 — Valvola a sfera con attuatore J4C Elettrico

ART. VSX75 — Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
ATT	S20	S20	S20	S20	S35	S35
COD.	VSX74-1/4-S20	VSX74-3/8-S20	VSX74-1/2-S20	VSX74-3/4-S20	VSX74-1-S35	VSX74-11/4-S35
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
ATT.	S35	S55	S85	S140	S300	
COD.	VSX74-11/2-S35	VSX74-2-S55	VSX74-21/2-S85	VSX74-3-S140	VSX74-4-S300	



SPECIFICATIONS
VSX78 AISI 304L VSX79 AISI 316L

(SIZE RANGE) DN10 TO DN100, DIN11851
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND ELECTRIC
ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX78 Valvola a sfera DIN 11851 AISI 304 Ball valves with ISO 5211
ART. VSX79 Valvola a sfera DIN 11851 AISI 316 Ball valves with ISO 5211

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX78-10	VSX78-15	VSX78-20	VSX78-25	VSX78-32	VSX78-40
SIZE	50-45	50	60	65	80	100
PN	16	10	10	6	6	6
CODICE	VSX78-45	VSX78-50	VSX78-60	VSX78-65	VSX78-80	VSX78-100



ART. VSX78 Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX79 Ball valves with AT actuator D.E

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VSX78-10-AT40D	VSX78-15-AT40D	VSX78-20-AT40D	VSX78-25-AT52D	VSX78-32-AT52D	VSX78-40-AT63D
SIZE	50-45	50	60	65	80	100
PN	16	10	10	6	6	6
ATTU.	AT63DX	AT75DX	AT75DX	AT83DX	AT92DX	AT105DX
CODICE	VSX78-45-AT63D	VSX78-50-AT75D	VSX78-60-AT75D	VSX78-65-AT83D	VSX78-80-AT92D	VSX78-100-AT105D



ART. VSX78 Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX79 Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
CODICE	VSX78-10-AT52S	VSX78-15-AT63S	VSX78-20-AT63S	VSX78-25-AT75S	VSX78-32-AT75S	VSX78-40-AT83S
SIZE	50-45	50	60	65	80	100
PN	16	10	10	6	6	6
ATTU.	AT83SX	AT83SX	AT92SX	AT105SX	AT125S	AT125S
CODICE	VSX78-45-AT83S	VSX78-50-AT83S	VSX78-60-AT92S	VSX78-65-AT105S	VSX78-80-AT125S	VSX78100-AT125S



ART. VSX78 Valvola a sfera con attuatore J4C Elettrico

ART. VSX79 Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	VSX78-10-S20	VSX78-15-S20	VSX78-20-S20	VSX78-25-S20	VSX78-32-S35	VSX78-40-S35
SIZE	50-45	50	60	65	80	100
PN	16	10	10	6	6	6
ATTU.	S55	S55	S85	S85	S140	S300
CODICE	VSX78-45-S55	VSX78-50-S55	VSX78-60-S85	VSX78-65-S85	VSX78-80-S140	VSX78-100-S300

2 WAY BALL VALVE VSX78MF - VSX79MF



SPECIFICATIONS VSX78MF AISI 304L VSX79MF AISI 316L

(SIZE RANGE) DN10 TO DN80,MF DIN11851
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) PTFE +NBR
PTFE +FKM
PTFE +EPDM
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C

ART. VSX78MF Valvola a sfera DIN 11851 AISI 304 Ball valves with ISO 5211
ART. VSX79MF Valvola a sfera DIN 11851 AISI 316 Ball valves with ISO 5211

Suffix: C for PTFE+FKM E for PTFE+EPDM

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX78MF-10	VSX78MF-15	VSX78MF-20	VSX78MF-25	VSX78MF-32	VSX78MF-40
SIZE	50-45	50	60	65	80	
PN	16	10	10	6	6	
CODICE	VSX78MF-45	VSX78MF-50	VSX78MF-60	VSX78MF-65	VSX78MF-80	



ART. VSX78MF Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX79MF Ball valves with AT actuator D.E

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VSX78MF10-AT40D	VSX78MF15-AT40D	VSX78MF20-AT40D	VSX78MF25-AT52D	VSX78MF32-AT52D	VSX78MF40-AT63D
SIZE	50-45	50	60	65	80	
PN	16	10	10	6	6	
ATTU.	AT63DX	AT75DX	AT75DX	AT83DX	AT92DX	
CODICE	VSX78MF45-AT63D	VSX78MF50-AT75D	VSX78MF60-AT75D	VSX78MF65-AT83D	VSX78MF80-AT92D	



ART. VSX78MF Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX79MF Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
CODICE	VSX78MF10-AT52S	VSX78MF15-AT63S	VSX78MF20-AT63S	VSX78MF25-AT75S	VSX78MF32-AT75S	VSX78MF40-AT83S
SIZE	50-45	50	60	65	80	
PN	16	10	10	6	6	
ATTU.	AT83SX	AT83SX	AT92SX	AT105SX	AT125S	
CODICE	VSX78MF45-AT83S	VSX78MF50-AT83S	VSX78MF60-AT92S	VSX78MF65AT105S	VSX78MF80AT125S	



ART. VSX78MF Valvola a sfera con attuatore J4C Elettrico

ART. VSX79MF Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	VSX78MF-10-S20	VSX78MF-15-S20	VSX78MF-20-S20	VSX78MF-25-S20	VSX78MF-32-S35	VSX78MF-40-S35
SIZE	50-45	50	60	65	80	
PN	16	10	10	6	6	
ATTU.	S55	S55	S85	S85	S140	
CODICE	VSX78MF-45-S55	VSX78MF-50-S55	VSX78MF-60-S85	VSX78MF-65-S85	VSX78MF-80-S140	

2 WAY BALL VALVE VSX20 GAROLLA



Specifications PN 40

(SIZE RANGE) DN32 TO DN100, GAROLLA

CONNECTION: GAROLLA

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 40-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL

CONNECTION: KF
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20+200C



Specifications PN 100

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4" CLAMP BS (STANDARD)

CONNECTION: VSX66C
CLAMP NORMATIVE DIN 32676 TAB.4 REIHE C ACCORDING TO NORMATIVE ATIVE BS/OD (ASTM A270) FOR TUBE
VSX66A
CLAMP NORMATIVE DIN 32676 TAB.2 REIHE A ACCORDING TO NORMATIVE DIN 11850 FOR TUBE
VSX66B
CLAMP NORMATIVE DIN 32676 TAB.3 REIHE B ACCORDING TO NORMATIVE ISO 1127 FOR TUBE

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20+200C

WITH HEATING JACKET



2 WAY BALL VALVE VSX70



Specifications PN 100/25

(SIZE RANGE) DN10 TO DN100, DIN11851
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE)-20 +160C

ON REQUEST:
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C
SMS CONNECTION
INTEGRAL SEAL

2 WAY BALL VALVE VSX71



Specifications PN 100/25

(SIZE RANGE) DN10 TO DN100 DIN 11851
FEMALE/MALE
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) PTFE-G400
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 + 160C

ON REQUEST:
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20+200C
SMS CONNECTION
INTEGRAL SEAL

2 WAY BALL VALVE VSX172



Specifications PN 100/25

(SIZE RANGE) DN10 TO DN100, DIN 11851 MALE
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20 +200C
SMS CONNECTION
INTEGRAL SEAL



(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATUR) -20 +160C

ON REQUEST:
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20+180C
P.T.F.E. WITH INOX -20 +200C
INTEGRAL SEAL

Specifications PN 100/25

(SIZE RANGE) DN10 TO DN100

CONNECTION:
ASEPTIK NORMATIVA DIN 11864-3 REIHE A, NKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-A

ASEPTIK NORMATIVA DIN 11864-3 REIHE B, NKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-B

ASEPTIK NORMATIVA DIN 11864-3 REIHE C, NKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-C

ASEPTIK NORMATI-VA DIN 11864-3 REIHE A, BKS + NKS FORM A. PER TUBO IN ACCORDO CON NOR-MATIVA DIN 11866-A

ASEPTIK NORMATI-VA DIN 11864-3 REIHE B, BKS + NKS FORM A. PER TUBO IN ACCORDO CON NOR-MATIVA DIN 11866-B

ASEPTIK NORMATIVA DIN 11864-3 REIHE C, NKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-C

ASEPTIK NORMATIVA DIN 11864-3 REIHE A, BKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-AA

ASEPTIK NORMATIVA DIN 11864-3 REIHE B, BKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-B

ASEPTIK NORMATIVA DIN 11864-3 REIHE C, BKS FORM A. PER TUBO IN ACCORDO CON NORMATIVA DIN 11866-C

2 WAY BALL VALVE VSX110 WELDING



Specifications PN 100/25

(SIZE RANGE) DN10 TO DN100

CONNECTION:
BUTT-WELDING IN ACCORDING TO BS-OD ASTM A-270
BUTT-WELDING IN ACCORDING TO DIN 1185
BUTT-WELDING IN ACCORDING TO ISO 1127

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C
INTEGRAL SEAL

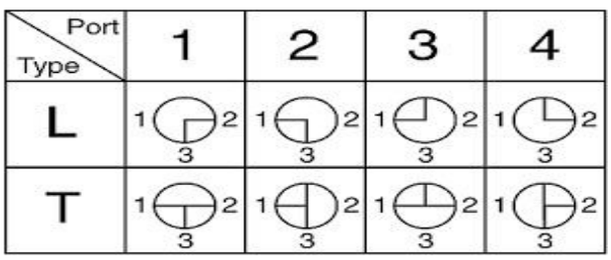
3/1 - 3WAY INOX BALL VALVES

3 WAY BALL VALVE VSX3LISO - VSX3TISO



Specifications

(SIZE RANGE) DN08 TO DN 50, 1/4" TO 2"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 PN 63
(BALL MATERIALS) INOX
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATUR) -25 +180C



ART. VSX3LISO-VSX3TISO Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
Art.T	VSX3TISO-1/4	VSX3TISO-3/8	VSX3TISO-1/2	VSX3TISO-3/4	VSX3TISO-1	VSX3TISO-11/4
Art.L	VSX3LISO-1/4	VSX3LISO-3/8	VSX3LISO-1/2	VSX3LISO-3/4	VSX3LISO-1	VSX3LISO-11/4
SIZE	1 1/2	2				
PN	63	63				
Art.T	VSX3TISO-11/2	VSX3TISO-2				
Art.L	VSX3LISO-11/2	VSX3LISO-2				



ART. VSX3TDE — Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX3LDE — Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTU.	AT40DX	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX
Art.T	VSX3TDE1/4-AT40D	VSX3TDE3/8-AT40D	VSX3TDE1/2-AT40D	VSX3TDE3/4-AT40D	VSX3TDE1-AT52D	VSX3TDE114-AT63D
Art.L	VSX3LDE1/4-AT40D	VSX3LDE3/8-AT40D	VSX3LDE1/2-AT40D	VSX3LDE3/4-AT40D	VSX3LDE1-AT52D	VSX3LDE114-AT63D
SIZE	1 1/2	2				
PN	63	63				
ATTU.	AT63DX	AT83DX				
Art.T	VSX3TDE112-AT63D	VSX3TDE2-AT83D				
Art. L	VSX3LDE112-AT63D	VSX3LDE2-AT83D				



ART. VSX3TDE — Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX3LDE — Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTU.	AT52SX	AT52SX	AT52SX	AT63SX	AT63SX	AT75SX
Art.T	VSX3TDE1/4-AT52S	VSX3TDE3/8-AT52S	VSX3TDE1/2-AT52S	VSX3TDE3/4-AT63S	VSX3TDE1-AT63S	VSX3TDE114-AT75S
Art.L	VSX3LDE1/4-AT52S	VSX3LDE3/8-AT52S	VSX3LDE1/2-AT52S	VSX3LDE3/4-AT63S	VSX3LDE1-AT63S	VSX3LDE114-AT75S
SIZE	1 1/2	2				
PN	63	63				
ATTU.	AT83SX	AT92SX				
Art.T	VSX3TDE112-AT83S	VSX3TDE2-AT92S				
Art.L	VSX3LDE112-AT83S	VSX3LDE2-AT92S				



ART. VSX3TDE Valvola a sfera con attuatore J4C Elettrico

ART. VSX3LDE Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
ATTU.	S20	S20	S20	S20	S35	S35
Art. T	VSX3TDE1/4-S20	VSX3TDE3/8-S20	VSX3TDE1/2-S20	VSX3TDE3/4-S20	VSX3TDE1-S35	VSX3TDE114-S35
Art. L	VSX3LDE1/4-S20	VSX3LDE3/8-S20	VSX3LDE1/2-S20	VSX3LDE3/4-S20	VSX3LDE1-S35	VSX3LDE114-S35
SIZE	1 1/2	2				
PN	63	63				
ATTU.	S55	S85				
Art.T	VSX3TDE112-S55	VSX3TDE2-S85				
Art. L	VSX3LDE112-S55	VSX3LDE2-S85				

3 WAY BALL VALVE VSX42T – VSX42L



Specifications

(SIZE RANGE) DN08 TO DN 50, 1/4" TO 4"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316L PN 100/16 FULL BORE
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE 4 SEALS
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL

CONNECTION:
ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

CONNECTION:
NPT FEMALE/FEMALE THREAD

ART. VSX42T - VSX42L Valvola a sfera con flangia ISO 5211 - Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
Art. T	VSX42T-1/4	VSX42T-3/8	VSX42T-1/2	VSX42T-3/4	VSX42T-1	VSX42T-11/4
Art. L	VSX42L-1/4	VSX42L-3/8	VSX42L-1/2	VSX42L-3/4	VSX42L-1	VSX42L-11/4
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
Art.T	VSX42T-11/2	VSX42T-2	VSX42T-21/2	VSX42T-3		
Art.L	VSX42L-11/2	VSX42L-2	VSX42L-21/2	VSX42L-3		



ART. VSX42T Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX42L Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATTU.	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX
Art. T	VSX42T-1/4-AT40D	VSX42T-3/8-AT40D	VSX42T-1/2-AT52D	VSX42T-3/4-AT63D	VSX42T-1-AT63D	VSX42T-11/4-AT75D
Art. L	VSX42L-1/4-AT40D	VSX42L-3/8-AT40D	VSX42L-1/2-AT52D	VSX42L-3/4-AT63D	VSX42L-1-AT63D	VSX42L-11/4-AT75D
SIZE	1 1/2	2	2 1/2	3		
PN	64	10	40	40		
ATTU.	AT75DX	AT83DX	AT83DX	AT92DX		
Art.T	VSX42T-11/2-AT75D	VSX42T-2-AT83D	VSX42T-21/2-AT83D	VSX42T-3-AT92D		
Art. L	VSX42L-11/2-AT75D	VSX42L-2-AT83D	VSX42L-21/2-AT83D	VSX42L-3-AT92D		



ART. VSX42T Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX42L Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATTU.	AT52SX	AT52SX	AT63SX	AT83SX	AT83SX	AT92SX
Art. T	VSX42T-1/4-AT52S	VSX42T-3/8-AT52S	VSX42T-1/2-AT63S	VSX42T-3/4-AT83S	VSX42T-1-AT83S	VSX42T-11/4-AT92S
Art. L	VSX42L-1/4-AT52S	VSX42L-3/8-AT52S	VSX42L-1/2-AT63S	VSX42L-3/4-AT83S	VSX42L-1-AT83S	VSX42L-11/4-AT92S
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
ATTU.	AT105SX	AT105SX	AT125SX	AT125SX		
Art.T	VSX42T-112-AT105S	VSX42T-2-AT105S	VSX42T-212-AT125S	VSX42T-3-AT125S		
Art. L	VSX42L-112-AT105S	VSX42L-2-AT105S	VSX42L-212-AT125S	VSX42L-3-AT125S		



ART. VSX42T Valvola a sfera con attuatore J4C Elettrico

ART. VSX42L Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
ATTU.	S20	S20	S20	S35	S35	S55
Art. T	VSX42T-1/4-S20	VSX42T-3/8-S20	VSX42T-1/2-S20	VSX42T-3/4-S35	VSX42T-1-S35	VSX42T-11/4-S55
Art. L	VSX42L-1/4-S20	VSX42L-3/8-S20	VSX42L-1/2-S20	VSX42L-3/4-S35	VSX42L-1-S35	VSX42L-11/4-S55
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
ATTU.	S55	S85	S85	S140		
Art.T	VSX42T-11/2-S55	VSX42T-2-S85	VSX42T-21/2-S85	VSX42T-3-S140		
Art. L	VSX42L-11/2-S55	VSX42L-2-S85	VSX42L-21/2-S85	VSX42L-3- S140		

3 WAY BALL VALVE VSX310T - VSX310L



Specifications

(SIZE RANGE) DN10 TO DN 100 DIN 11851
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316L PN 100/16 FULL BORE
(BALL MATERIALS) INOXL 4 SEALS
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C
SMS CONNECTION

ART. VSX310T - VSX310L Valvola a sfera DIN 11851 AISI 316 Ball valves with ISO 5211

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
Art. T	VSX310T-10	VSX310T-15	VSX310T-20	VSX310T-25	VSX310T-32	VSX310T-40
Art. L	VSX310L-10	VSX310L-15	VSX310L-20	VSX310L-25	VSX310L-32	VSX310L-40
SIZE	50	65	80	100		
PN	40	40	40	16		
Art. T	VSX310T-50	VSX310T-65	VSX310T-80	VSX310T-100		
Art. L	VSX310L-50	VSX310L-65	VSX310L-80	VSX310L-100		



ART. VSX310T — Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX310L — Ball valves with AT actuator D.E

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX	AT75DX
Art. T	VSX310T-10-AT40D	VSX310T-15-AT52D	VSX310T-20-AT63D	VSX310T-25-AT63D	VSX310T-32-AT75D	VSX310T-40-AT75D
Art. L	VSX310L-10-AT40D	VSX310L-15-AT52D	VSX310L-20-AT63D	VSX310L-25-AT63D	VSX310L-32-AT75D	VSX310L-40-AT75D
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	AT83DX	AT83DX	AT92DX	AT105DX		
Art. T	VSX310T-50-AT83D	VSX310T-65-AT83D	VSX310T-80-AT92D	VSX310T100AT105D		
Art. L	VSX310L-50-AT83D	VSX310L-65-AT83D	VSX310L-80-AT92D	VSX310L100AT105D		



ART. VSX310T — Valvola a sfera con attuatore AT semplice effetto

ART. VSX310L — Ball valves with AT actuator S.E.
10 SPRING SINGLE ACTING

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	AT52SX	AT63SX	AT83SX	AT83SX	AT92SX	AT105SX
Art. T	VSX310T-10-AT52S	VSX310T-15-AT63S	VSX310T-20-AT83S	VSX310T-25-AT83S	VSX310T-32-AT92S	VSX310T40AT105S
Art. L	VSX310L-10-AT52S	VSX310L-15-AT63S	VSX310L-20-AT83S	VSX310L-25-AT83S	VSX310L-32-AT92S	VSX310L40AT105S
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	AT105SX	AT125SX	AT125SX	AT140SX		
Art. T	VSX310T50-AT105S	VSX310T65AT125S	VSX310T80AT125S	VSX310T100AT140S		
Art. L	VSX310L50-AT105S	VSX310L65AT125S	VSX310L80AT125S	VSX310L100AT140S		



ART. VSX310T — Valvola a sfera con attuatore J4C Elettrico

ART. VSX310L — Ball valves with J4C Electric actuator

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	S20	S20	S35	S35	S55	S55
Art. T	VSX310T-10-S20	VSX310T-15-S20	VSX310T-20-S35	VSX310T-25-S35	VSX310T-32-S55	VSX310T-40-S55
Art. L	VSX310L-10-S20	VSX310L-15-S20	VSX310L-20-S35	VSX310L-25-S35	VSX310L-32-S55	VSX310L-40-S55
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	S85	S85	S300	S300		
Art. T	VSX310T-50-S85	VSX310T-65-S85	VSX310T-80-S300	VSX310T100-S300		
Art. L	VSX310L-50-S85	VSX310L-65-S85	VSX310L-80-S300	VSX310L100-S300		

3 WAY BALL VALVE VSX320T - VSX320L



Specifications

(SIZE RANGE) DN10 TO DN 100 DIN 11851
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316L PN 40/16 FULL BORE
(BALL MATERIALS) INOXL 4 SEALS
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C
SMS CONNECTION

ART. VSX320T - VSX320L Valvola a sfera DIN 11851 AISI 316 Ball valves with ISO 5211

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
Art. T	VSX320T-10	VSX320T-15	VSX320T-20	VSX320T-25	VSX320T-32	VSX320T-40
Art. L	VSX320L-10	VSX320L-15	VSX320L-20	VSX320L-25	VSX320L-32	VSX320L-40
SIZE	50	65	80	100		
PN	40	40	40	16		
Art. T	VSX320T-50	VSX320T-65	VSX320T-80	VSX320T-100		
Art. L	VSX320L-50	VSX320L-65	VSX320L-80	VSX320L-100		



ART. VSX320T Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX320L Ball valves with AT actuator D.E

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX	AT75DX
Art. T	VSX320T-10-AT40D	VSX320T-15 AT52D	VSX320T-20-AT63D	VSX320T-25-AT63D	VSX320T-32-AT75D	VSX320T-40-AT75D
Art. L	VSX320L-10-AT40D	VSX320L-15-AT52D	VSX320L-20-AT63D	VSX320L-25-AT63D	VSX320L-32-AT75D	VSX320L-40-AT75D
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	AT83DX	AT83DX	AT92DX	AT105DX		
Art. T	VSX320T-50-AT83D	VSX320T-65-AT83D	VSX320T-80-AT92D	VSX320T100AT105D		
Art. L	VSX320L-50-AT83D	VSX320L-65-AT83D	VSX320L-80-AT92D	VSX320L100AT105D		



ART. VSX320T Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX320L Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	AT52SX	AT63SX	AT83SX	AT83SX	AT92SX	AT105SX
Art. T	VSX320T-10-AT52S	VSX320T-15-AT63S	VSX320T-20-AT83S	VSX320T-25-AT83S	VSX320T-32-AT92S	VSX320T40AT105S
Art. L	VSX320L-10-AT52S	VSX320L-15-AT63S	VSX320L-20-AT83S	VSX320L-25-AT83S	VSX320L-32-AT92S	VSX320L40AT105S
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	AT105SX	AT125SX	AT125SX	AT140SX		
Art. T	VSX320T50-AT105S	VSX320T65AT125S	VSX320T80AT125S	VSX320T100AT140S		
Art. L	VSX320L50-AT105S	VSX320L65AT125S	VSX320L80AT125S	VSX320L100AT140S		



ART. VSX320T Valvola a sfera con attuatore J4C Elettrico

ART. VSX320L Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	10	15	20	25	32	40
PN	100	100	100	64	64	64
ATTU.	S20	S20	S35	S35	S55	S55
Art. T	VSX320T-10-S20	VSX320T-15-S20	VSX320T-20-S35	VSX320T-25-S35	VSX320T-32-S55	VSX320T-40-S55
Art. L	VSX320L-10-S20	VSX320L-15-S20	VSX320L-20-S35	VSX320L-25-S35	VSX320L-32-S55	VSX320L-40-S55
SIZE	50	65	80	100		
PN	40	40	40	16		
ATTU.	S85	S85	S300	S300		
Art. T	VSX320T-50-S85	VSX320T-65-S85	VSX320T-80-S300	VSX320T100-S300		
Art. L	VSX320L-50-S85	VSX320L-65-S85	VSX320L-80-S300	VSX320L100-S300		

3 WAY BALL VALVE VSX330T - VSX330L



Specifications PN100

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4" CLAMP BS

CONNECTION:
CLAMP NORMATIVE DIN 32676 TAB.4 REIHE C
ACCORDING TO NORMATIVE BS/OD (ASTM A270)
FOR TUBE
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L S SEAL
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C
ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

ART. VSX330T - VSX330L Valvola a sfera CLAMP BS Ball valves with ISO 5211

SIZE	1/2	3/4	1R-DN20	1	1 ½R DN32	1 1/2
PN	100	100	100	64	64	40
Art. T	VSX330T-1/2	VSX330T-3/4	VSX330T-1R	VSX330T-1	VSX330T-11/2R	VSX330T-11/2
Art. L	VSX330L-1/2	VSX330L-3/4	VSX330L-1R	VSX330L-1	VSX330L-11/2R	VSX330L-11/2
SIZE	2	2 1/2	3	4		
PN	40	40	40	16		
Art. T	VSX330T-2	VSX330T-21/2	VSX330T-3	VSX330T-4		
Art. L	VSX330L-2	VSX330L-21/2	VSX330L-3	VSX330L-4		



ART. VSX330T Valvola a sfera con attuatore AT Doppio Effetto

ART. VSX330L Ball valves with AT actuator D.E

SIZE	1/2	3/4	1R-DN20	1	1 ½R DN32	1 1/2
PN	100	100	100	64	64	64
ATTU.	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX	AT75DX
Art. T	VSX330T12-AT40D	VSX330T34-AT52D	VSX330T1R-AT63D	VSX330T-1-AT63D	VSX330T112RAT75D	VSX330T112-AT75D
Art. L	VSX330L12-AT40D	VSX330L34-AT52D	VSX330L1R-AT63D	VSX330L-1-AT63D	VSX330L112RAT75D	VSX330L112-AT75D
SIZE	2	2 1/2	3	4		
PN	40	40	40	16		
ATTU.	AT83DX	AT83DX	AT92DX	AT105DX		
Art. T	VSX330T-2-AT83D	VSX330T212AT83D	VSX330T-3-AT92D	VSX330T-4-AT105D		
Art. L	VSX330L-2-AT83D	VSX330L212AT83D	VSX330L-3-AT92D	VSX330L-4-AT105D		



ART. VSX330T Valvola a sfera con attuatore AT Semplice Effetto

ART. VSX330L Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1R-DN20	1	1 1/2R DN32	1 1/2
PN	100	100	100	64	64	64
ATTU.	AT52SX	AT63SX	AT83SX	AT83SX	AT92SX	AT105SX
Art. T	VSX330T12-AT52S	VSX330T34-AT63S	VSX330T1R-AT83S	VSX330T-1-AT83S	VSX330T112RAT92S	VSX330T112AT105S
Art. L	VSX330L12-AT52S	VSX330L34-AT63S	VSX330L1R-AT83S	VSX330L-1-AT83S	VSX330L112RAT92S	VSX330L112AT105S
SIZE	2	2 1/2	3	4		
PN	40	40	40	16		
ATTU.	AT105SX	AT125SX	AT125SX	AT140SX		
Art. T	VSX330T2-AT105S	VSX330T212A125S	VSX330T3-AT125S	VSX330T4-AT140S		
Art. L	VSX330L2-AT105S	VSX330L212A125S	VSX330L3-AT125S	VSX330L4-AT140S		



ART. VSX330T Valvola a sfera con attuatore J4C Elettrico

ART. VSX330L Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1R-DN20	1	1 1/2R DN32	1 1/2
PN	100	100	100	64	64	64
ATTU.	S20	S20	S35	S35	S55	S55
Art. T	VSX330T12-S20	VSX330T34-S20	VSX330T1R-S35	VSX330T-1-S35	VSX330T112R-S55	VSX330T112-S55
Art. L	VSX330L12-S20	VSX330L34-S20	VSX330L1R-S35	VSX330L-1-S35	VSX330L112R-S55	VSX330L112-S55
SIZE	2	2 1/2	3	4		
PN	40	40	40	16		
ATTU.	S85	S85	S300	S300		
Art. T	VSX330T-2-S85	VSX330T212-S85	VSX330T-3-S300	VSX330T-4-S300		
Art. L	VSX330L-2-S85	VSX330L212-S85	VSX330L-3-S300	VSX330L-4-S300		

3 WAY L BALL VALVE VSX44L



Specifications PN 400 BAR ONLY L

(SIZE RANGE) 1/4" TO 1" ISO 5211
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) DEVLON (NO WATER)
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +125C

ON REQUEST:
PN 250 SEAL PTFE VSX44LP
ANTISTATIC DEVICE ATEX II 2 G-D T4

CONNECTION: NPT FEMALE/FEMALE THREAD

ART. VSX44L Valvola a sfera ISO 5211 filettata gas Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
Art. L	VSX44L-1/4	VSX44L-3/8	VSX44L-1/2	VSX44L-3/4	VSX44L-1



ART. VSX44L Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	AT63DX	AT63DX	AT63DX	AT75DX	AT75DX
Art.L	VSX44L-1/4-AT63D	VSX44L-3/8-AT63D	VSX44L-1/2- AT63D	VSX44L-3/4- AT75D	VSX44L-1-AT75D



ART. VSX44L

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	AT75SX	AT75SX	AT83SX	AT92SX	AT92SX
Art. L	VSX44L-1/4-AT75S	VSX44L-3/8-AT75S	VSX44L-1/2-AT83S	VSX44L-3/4-AT92S	VSX44L-1-AT92S



ART. VSX44L

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1
PN	400	400	400	400	400
ATT	S35	S35	S35	S55	S55
Art. L	VSX44L-1/4-S35	VSX44L-3/8-S35	VSX44L-1/2-S35	VSX44L-3/4-S55	VSX44L-1-S55

3 WAY BALL VALVE VSX331T - VSX331L



Specifications PN100

(SIZE RANGE)DN08 TO DN100, 1/4" TO 4"
CLAMP DIN 32676

CONNECTION:
CLAMP NORMATIVE DIN 32676 TAB.2 REIHE A
ACCORDING TO NORMATIVE DIN 11850 FOR TUBE

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L S SEAL
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

3 WAY BALL VALVE VSX333T - VSX333L



Specifications PN100

(SIZE RANGE) DN08 TO DN100, 1/4"
TO 4" CLAMP ISO

CONNECTION:
CLAMP NORMATIVE DIN 32676 TAB.3 REIHE B
ACCORDING TO NORMATIVE ISO 1127 FOR TUBE

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100-25
(BALL MATERIALS) INOX 316 L S SEAL
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

3 WAY BALL VALVE VSX350 WELDING



Specifications PN 100/16

(SIZE RANGE) DN10 TO DN100,

CONNECTION:
BUTT-WELDING IN ACCORDING TO BS-OD
ASTM A-270
BUTT-WELDING IN ACCORDING TO DIN 1185
BUTT-WELDING IN ACCORDING TO ISO 1127

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN 100/16
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

3 WAY BALL VALVE VSX340T - VSX340L GAROLLA



Specifications PN 16/10

(SIZE RANGE) DN32 TO DN100, GAROLLA

CONNECTION: GAROLLA

(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN16/10
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

3 WAY BALL VALVE VSX300L



Specifications

(SIZE RANGE) DN08 TO DN 50, 1/4" TO 4"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316L PN 40/16
(BALL MATERIALS) INOXL
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL

CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

CONNECTION: NPT FEMALE/FEMALE THREAD

3 WAY L BALL VALVE VSX45L



Specifications PN 40/25 BAR ONLY L

(SIZE RANGE) 1/4" TO 2" ISO 5211
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316 L PN40/25
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

ON REQUEST:
INTEGRAL SEAL

CONNECTION: ISO 228 FEMALE/MALE THREAD
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

CONNECTION: NPT FEMALE/FEMALE THREAD

FLANGED BALL VALVE CAM685

Specifications

- (SIZE RANGE) DN15 TO DN150, EN1092/ISO7005
- (OPERATING PRESSURE) 8 BAR
- (BODY MATERIALS) INOX 316 PN 16
- (DISC MATERIALS) INOX 316
- (SEALING MATERIALS) PTFE
- (ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
- (TEMPERATURE) -25 +150C



ART. CAM685 Valvola a sfera con flangia ISO 5211 - Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAM685-15	CAM685-20	CAM685-25	CAM685-32	CAM685-40	CAM685-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAM685-65	CAM685-80	CAM685-100	CAM685-125	CAM685-150	



ART. CAM685 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
CODICE	CAM685-15-AT40D	CAM685-20-AT40D	CAM685-25-AT40D	CAM685-32-AT52D	CAM685-40-AT63D	CAM685-50-AT63D
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT83DX	AT92DX	AT105DX			
CODICE	CAM685-65-AT83D	CAM685-80-AT92D	CAM685100AT105D			



ART. CAM685

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
CODICE	CAM685-15-AT52S	CAM685-20-AT63S	CAM685-25-AT63S	CAM685-32-AT75S	CAM685-40-AT75S	CAM685-50-AT83S
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT105SX	AT125SX	AT140SX			
CODICE	CAM68565-AT105S	CAM68580-AT125S	CAM685100AT140S			



ART. CAM685

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	CAM685-15-S20	CAM685-20-S20	CAM685-25-S20	CAM685-32-S20	CAM685-40-S35	CAM685-50-S35
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAM685-65-S85	CAM685-80-S140	CAM685-100-S300			

FLANGED BALL VALVE CAM664



Specifications

- (SIZE RANGE) DN15 TO DN100 EN558/1 ISO5752
- (OPERATING PRESSURE) 8 BAR
- (BODY MATERIALS) CF8M PN 16
- (BALL MATERIALS) CF8M
- (STEM MATERIALS) CF8M
- (SEALING MATERIALS) PTFE
- (ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
- (EMPERATURE) -10 +120C

ART. CAM664 Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAM664-15	CAM664-20	CAM664-25	CAM664-32	CAM664-40	CAM664-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAM664-65	CAM664-80	CAM664-100	CAM664-125	CAM664-150	



ART. CAM664 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
CODICE	CAM664-15-AT40D	CAM664-20-AT40D	CAM664-25-AT40D	CAM664-32-AT52D	CAM664-40-AT63D	CAM664-50-AT63D
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT83DX	AT92DX	AT105DX			
CODICE	CAM664-65-AT83D	CAM664-80-AT92D	CAM664100AT105D			



ART. CAM664

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT52SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
CODICE	CAM664-15-AT52S	CAM664-20-AT63S	CAM664-25-AT63S	CAM664-32-AT75S	CAM664-40-AT75S	CAM664-50-AT83S
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT105SX	AT125SX	AT140SX			
CODICE	CAM66465-AT105S	CAM66480-AT125S	CAM664100AT140S			



ART. CAM664

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S20	S20	S35	S35
CODICE	CAM664-15-S20	CAM664-20-S20	CAM664-25-S20	CAM664-32-S20	CAM664-40-S35	CAM664-50-S35
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAM664-65-S85	CAM664-80-S140	CAM664-100-S300			

FLANGED BALL VALVE CAMVI10







Specifications

(SIZE RANGE) DN15 TO DN150, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) AISI 316 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE – PTFE CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C

ON REQUEST:
INTEGRAL SEAL
PN16-40-64-100
ANSI150-300-600
FIRE SAFE
ANTISTATIC DEVICE
DEGREASING FOR OXYGEN

SEALS MADE OF:
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
WITH HEATING JACKET CAMVI11

ART. CAMVI10 Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAMVI10-15	CAMVI10-20	CAMVI10-25	CAMVI10-32	CAMVI10-40	CAMVI10-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAMVI10-65	CAMVI10-80	CAMVI10-100	CAMVI10-125	CAMVI10-150	



ART. CAMVI10

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT52DX	AT63DX	AT63DX	AT63DX	AT75DX
CODICE	CAMVI10-15-AT40D	CAMVI10-20-AT52D	CAM VI10-25-AT63D	CAMVI10-32-AT63D	CAMVI10-40-AT63D	CAMVI10-50-AT75D
SIZE	65	80	100	125		
PN	16	16	16	16		
ATTU.	AT92DX	AT92DX	AT125DX	AT140DX		
CODICE	CAMVI10-65-AT92D	CAMVI10-80-AT92D	CAMVI10-100-AT125D	CAMVI10-125-AT140D		



ART. CAMVI10

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT63SX	AT63SX	AT83SX	AT92SX	AT92SX	AT105SX
CODICE	CAMVI10-15-AT63S	CAMVI10-20-AT63S	CAMVI10-25-AT83S	CAMVI10-32-AT92S	CAMVI10-40-AT92S	CAMVI1050-AT105S
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT125SX	AT140SX	AT160SX			
CODICE	CAMVI1065AT125S	CAMVI1080AT140S	CAMVI10100AT160S			

ATEX



ART. CAMVI10 Valvola a sfera con attuatore J4C elettrico

Ball valves with J4C ELECTRIC actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S55	S55	S55	S85
CODICE	CAMVI10-15-S20	CAMVI10-20-S20	CAMVI10-25-S55	CAMVI10-32-S55	CAMVI10-40-S55	CAMVI10-50-S85
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAMVI10-65-S85	CAMVI10-80-S140	CAMVI10-100-S300			

FLANGED SPLIT BODY BALL VALVES CAMVI60

Specifications

(SIZE RANGE) DN15 TO DN150, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) AISI 316 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE - PTFE CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C





ON REQUEST:
INTEGRAL SEAL
ANSI 150 CAMVI64 – ANSI 300 CAMVI68
ANSI 600 CAMVI70 – ANSI 1500 CAMVI80 – ANSI 2500 CAMVI90
FIRE SAFE
ANTISTATIC DEVICE
DEGREASING FOR OXYGEN
P.T.F.E. WITH CARBOGRAPHITE -20 +180C

ART. CAMVI60 Valvola a sfera con flangia ISO 5211 - Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAMVI60-15	CAMVI60-20	CAMVI60-25	CAMVI60-32	CAMVI60-40	CAMVI60-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAMVI60-65	CAMVI60-80	CAMVI60-100	CAMVI60-125	CAMVI60-150	



ART. CAMVI60 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT40DX	AT52DX	AT63DX	AT63DX	AT63DX	AT75DX
CODICE	CAMVI60-15-AT40D	CAMVI60-20-AT52D	CAMVI60-25-AT63D	CAMVI60-32-AT63D	CAMVI60-40-AT63D	CAMVI60-50-AT75D
SIZE	65	80	100	125		
PN	16	16	16	16		
ATTU.	AT92DX	AT92DX	AT125DX	AT140DX		
CODICE	CAMVI60-65-AT92D	CAMVI60-80-AT92D	CAMVI60-100-AT125D	CAMVI60-125-AT140D		



ART. CAMVI60

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	AT63SX	AT63SX	AT83SX	AT92SX	AT92SX	AT105SX
CODICE	CAMVI60-15-AT63S	CAMVI60-20-AT63S	CAMVI60-25-AT83S	CAMVI60-32-AT92S	CAMVI60-40-AT92S	CAMVI6050-AT105S
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
ATTU.	AT125SX	AT140SX	AT160SX	AT190SX		
CODICE	CAMVI6065AT125S	CAMVI6080AT140S	CAMVI60100AT160S			



ART. CAMVI60

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S55	S55	S55	S85
CODICE	CAMVI60-15-S20	CAMVI60-20-S20	CAMVI60-25-S55	CAMVI60-32-S55	CAMVI60-40-S55	CAMVI60-50-S85
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAMVI60-65-S85	CAMVI60-80-S140	CAMVI60-100-S300			

ON DEMAND

FLANGED BALL VALVE VSX400





Specifications

(SIZE RANGE) DN15 TO DN200,UNI EN1092-1
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX 316L PN 40/16
(DISC MATERIALS) INOX 316
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +160C

WITH HEATING JACKET

ON REQUEST:
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4 ZONE 1-2
M.O.C.A. CE 1935/2004

SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

FLANGED BALL CAMVI103T - CAMVI103L



Specifications

(SIZE RANGE)DN15 TO DN100, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE – PTFE CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C

FLANGED BALL VALVE C128



Specifications

(SIZE RANGE) DN15 TO DN200 EN1092 ISO7005
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) CF8M ANSI 150
(BALL MATERIALS) CF8M
(STEM MATERIALS) CF8M
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURA) -10 +120C

FLANGED BALL VALVE C129



Specifications

(SIZE RANGE) DN65 TO DN150
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) CF8M PN 40
(BALL MATERIALS) CF8M
(STEM MATERIALS) CF8M
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURA) -30 +180C

FLANGED BALL VALVE VSX60



Specifications PN 40/16

(SIZE RANGE) DN10 TO DN100 UNI EN 1092-1
(OPERATING PRESSURE) 6 BAR
(BODY MATERIALS) INOX 316 L
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURA) -20 +160C

ON REQUEST:
CONNECTION: EN 1759-1 CLASS 150 REVOLVING
THREADED FLANGES
CONNECTION: ANSI 300 REVOLVING THREADED
FLANGES
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200

FLANGED 3 WAY T/L BALL VALVE VSX46T - VSX46L



Specifications PN 40/16

(SIZE RANGE) DN10 TO DN100 UNI EN 1092-1
(OPERATING PRESSURE) 6 BAR
(BODY MATERIALS) INOX 316 L
(BALL MATERIALS) INOX 316 L
(SEALING MATERIALS) VIRGIN PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURA) -20 +160C

ON REQUEST:
CONNECTION: EN 1759-1 CLASS 150 REVOLVING
THREADED FLANGES
CONNECTION: ANSI 300 REVOLVING THREADED
FLANGES
INTEGRAL SEAL
ANTISTATIC DEVICE ATEX II 2 G-D T4
ZONE 1-2
M.O.C.A. CE 1935/2004
SEALS MADE OF:
P.T.F.E. WITH GLASS -20 +170C
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
P.T.F.E. WITH INOX -20 +200C

4 - BUTTERFLY SANITARY VALVES

2 WAY SANITARY VALVE VFX10B - VFX15B



Specifications PN 6 VFX10B AISI 304
VFX15B AISI 316L

(SIZE RANGE) 1/2" TO 4" CLAMP BS
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C FKM
-15 +200C EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

ART. VFX10B CLAMP BS AISI 304
ART. VFX15B CLAMP BS AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm

Butterfly valves with bracket



SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
CODICE	VFX10B-1/2	VFX10B-3/4	VFX10B-1	VFX10B-11/2	VFX10B-2	VFX10B-21/2
SIZE	3	4				
PN	7	7				
CODICE	VFX10B-3	VFX10B-4				



ART.VFX10B Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX15B Butterfly valves with AT actuator D.E

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
CODICE	VFX10B-1/2-AT40D	VFX10B-3/4-AT40D	VFX10B-1-AT40D	VFX10B-112-AT52D	VFX10B-2-AT63D	VFX10B-212-AT63D
SIZE	3	4				
PN	7	7				
ATT.	AT75DX	AT83DX				
CODICE	VFX10B-3-AT75D	VFX10B-4-AT83D				



ART.VFX10B Valvola a farfalla con attuatore AT SEMPLICE Effetto

ART.VFX15B Butterfly valves with AT actuator S.E

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
ATT.	AT52SX	AT52SX	AT52SX	AT75SX	AT83SX	AT92SX
CODICE	VFX10B-1/2-AT52S	VFX10B-3/4-AT52S	VFX10B-1-AT52S	VFX10B-112-AT75S	VFX10B-2-AT83S	VFX10B-212-AT92S
SIZE	3	4				
PN	7	7				
ATT.	AT105SX	AT125SX				
CODICE	VFX10B-3-AT105S	VFX10B-4-AT125S				



ART.VFX10B Valvola a farfalla con attuatore FM21-ED

ART.VFX15B Butterfly valves with AT actuator FM21-ED

Double Effect

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX10B1/2-FM21ED	VFX10B3/4-FM21ED	VFX10B-1-FM21ED	VFX10B112-FM21ED	VFX10B-2-FM21ED	VFX10B212-FM21ED
SIZE	3					
PN	7					
ATT.	FM21ED					
COD.	VFX10B-3-FM21ED					



ART. VFX10B Valvola a farfalla con attuatore FM21E Semplice Effetto

ART. VFX15B Butterfly valves with FM21E actuator S.E

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E	FM21E	FM21E
CODICE	VFX10B-1/2-FM21E	VFX10B-3/4-FM21E	VFX10B-1-FM21E	VFX10B112-FM21E	VFX10B-2-FM21E	VFX10B212-FM21E



ART. VFX10B Valvola a farfalla con attuatore J4C Elettrico

ART. VFX15B Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
ATT.	S20	S20	S20	S20	S35	S55
CODICE	VFX10B-1/2-S20	VFX10B-3/4-S20	VFX10B-1-S20	VFX10B-112-S20	VFX10B-2-S35	VFX10B-212-S55
SIZE	3	4				
PN	7	7				
ATT.	S85	S85				
CODICE	VFX10B-3-S85	VFX10B-4-S85				

2 WAY SANITARY VALVE VFX10I - VFX15I

Specifications PN 6 VFX10I AISI 304L
VFX15I AISI 316L



(SIZE RANGE) DN15 TO DN100, CLAMP ISO 2852
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15 +200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

ART. VFX10I CLAMP ISO 2852 AISI 304
ART. VFX15I CLAMP ISO 2852 AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm
Butterfly valves with bracket



SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX10I-15	VFX10I-20	VFX10I-25	VFX10I-32	VFX10I-40	VFX10I-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX10I-65	VFX10I-80	VFX10I-100			



ART.VFX10I Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX15I Butterfy valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VFX10I-15-AT40D	VFX10I -20-AT40D	VFX10I-25-AT40D	VFX10I-32-AT52D	VFX10I-40-AT52D	VFX10I-50-AT63D
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT63DX	AT75DX	AT83DX			
CODICE	VFX10I-65-AT63D	VFX10I-80-AT75D	VFX10I-100-AT83D			



ART.VFX10I Valvola a farfalla con attuatore AT Semplice Effetto

ART.VFX15I Butterfly valves with AT actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX
CODICE	VFX10I-15-AT52S	VFX10I-20-AT52S	VFX10I-25-AT52S	VFX10I-32-AT63S	VFX10I-40-AT75S	VFX10I-50-AT83S
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT92SX	AT105SX	AT125SX			
CODICE	VFX10I-65-AT92S	VFX10I-80-AT105S	VFX10I-100-AT125S			



ART.VFX10I Valvola a farfalla con attuatore FM21-ED

ART.VFX15I Butterfly valves with AT actuator FM21-ED

Double Effect

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX10I-15-FM21ED	VFX10I-20-FM21ED	VFX10I-25-FM21ED	VFX10I-32-FM21ED	VFX10I-40-FM21ED	VFX10I-50-FM21ED
SIZE	65					
PN	7					
ATT.	FM21ED					
COD.	VFX10I-65-FM21ED					



ART.VFX10I Valvola a farfalla con attuatore FM21E Semplice Effetto

ART.VFX15I Butterfly valves with FM21E actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E	FM21E	FM21E
CODICE	VFX10I-15-FM21E	VFX10I-20-FM21E	VFX10I-25-FM21E	VFX10I-32-FM21E	VFX10I-40-FM21E	VFX10I-50-FM21E



ART. VFX10I Valvola a farfalla con attuatore J4C Elettrico

ART. VFX15I Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	S20	S20	S20	S20	S20	S35
CODICE	VFX10I-15-S20	VFX10I-20-S20	VFX10I-25-S20	VFX10I-32-S20	VFX10I-40-S20	VFX10I-50-S35
SIZE	65	80	100			
PN	7	7	7			
ATT.	S55	S85	S85			
CODICE	VFX10I-65-S55	VFX10I-80-S85	VFX10I-100-S85			

2 WAY SANITARY VALVE VFX10 - VFX15

Specifications PN 6 VFX10 AISI 304L VFX15 AISI 316L



(SIZE RANGE) DN15 TO DN100, CLAMP DIN 32676
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15 +200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

ART. VFX10 CLAMP DIN 32676 AISI 304
ART. VFX15 CLAMP DIN 32676 AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm
Butterfly valves with bracket



SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX10-15	VFX10-20	VFX10-25	VFX10-32	VFX10-40	VFX10-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX10-65	VFX10-80	VFX10-100			



ART.VFX10 Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX15 Butterfy valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VFX10-15-AT40D	VFX10-20-AT40D	VFX10-25-AT40D	VFX10-32-AT52D	VFX10-40-AT52D	VFX10-50-AT63D
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT63DX	AT75DX	AT83DX			
CODICE	VFX10-65-AT63D	VFX10-80-AT75D	VFX10-100-AT83D			



ART.VFX10 Valvola a farfalla con attuatore AT Semplice Effetto

ART.VFX15 Butterfly valves with AT actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX
CODICE	VFX10-15-AT52S	VFX10-20-AT52S	VFX10-25-AT52S	VFX10-32-AT63S	VFX10-40-AT75S	VFX10-50-AT83S
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT92SX	AT105SX	AT125SX			
CODICE	VFX10-65-AT92S	VFX10-80-AT105S	VFX10100-AT125S			



ART.VFX10 Valvola a farfalla con attuatore FM21-ED

ART.VFX15 Butterfly valves with AT actuator FM21-ED

Double Effect

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX10-15-FM21ED	VFX10-20-FM21ED	VFX10-25-FM21ED	VFX10-32-FM21ED	VFX10-40-FM21ED	VFX10-212-FM21ED
SIZE	65					
PN	7					
ATT.	FM21ED					
COD.	VFX10-65-FM21ED					



ART.VFX10 Valvola a farfalla con attuatore FM21E Semplice Effetto

ART.VFX15 Butterfly valves with FM21E actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E	FM21E	FM21E
CODICE	VFX10-15-FM21E	VFX10-20-FM21E	VFX10-25-FM21E	VFX10-32-FM21E	VFX10-40-FM21E	VFX10-50-FM21E



ART. VFX10 Valvola a farfalla con attuatore J4C Elettrico

ART. VFX15 Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	S20	S20	S20	S20	S20	S35
CODICE	VFX10-15-S20	VFX10-20-S20	VFX10-25-S20	VFX10-32-S20	VFX10-40-S20	VFX10-50-S35
SIZE	65	80	100			
PN	7	7	7			
ATT.	S55	S85	S85			
CODICE	VFX10-65-S55	VFX10-80-S85	VFX10-100-S85			

2 WAY SANITARY VALVE VFX20D - VFX25D

Specifications PN 6 VFX20D AISI 304L
VFX25D AISI 316L

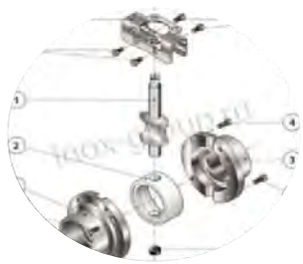


(SIZE RANGE) DN25 TO DN100 DIN 11851FF -
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15 +200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

ART. VFX20D DIN11851 AISI 304
ART. VFX25D DIN11851 AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm
Butterfly valves with bracket



SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX20D-15	VFX20D-20	VFX20D-25	VFX20D-32	VFX20D-40	VFX20D-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX20D-65	VFX20D-80	VFX20D-100			



ART.VFX20D Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX25D Butterfy valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VFX20D-15-AT40D	VFX20D-20-AT40D	VFX20D-25-AT40D	VFX20D-32-AT52D	VFX20D-40-AT52D	VFX20D-50-AT63D
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT63DX	AT75DX	AT83DX			
CODICE	VFX20D-65-AT63D	VFX20D-80-AT75D	VFX20D-100-AT83D			



ART.VFX20D Valvola a farfalla con attuatore AT Semplice Effetto

ART.VFX25D Butterfly valves with AT actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX
CODICE	VFX20D-15-AT52S	VFX20D-20-AT52S	VFX20D-25-AT52S	VFX20D-32-AT63S	VFX20D-40-AT75S	VFX20D-50-AT83S
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT92SX	AT105SX	AT125SX			
CODICE	VFX20D-65-AT92S	VFX20D-80-AT105S	VFX20D100-AT125S			



ART.VFX20D Valvola a farfalla con attuatore FM21-ED

ART.VFX25D Butterfly valves with AT actuator FM21-ED

Double Effect

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX20-15-FM21ED	VFX20-20-FM21ED	VFX20-25-FM21ED	VFX20-32-FM21ED	VFX20-40-FM21ED	VFX20-50-FM21ED
SIZE	65					
PN	7					
ATT.	FM21ED					
COD.	VFX20-65-FM21ED					



ART.VFX20D Valvola a farfalla con attuatore FM21E Semplice Effetto

ART.VFX25D Butterfly valves with FM21E actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E	FM21E	FM21E
CODICE	VFX20-15-FM21E	VFX20-20-FM21E	VFX20-25-FM21E	VFX20-32-FM21E	VFX20-40-FM21E	VFX20-50-FM21E



ART. VFX20D — **Valvola a farfalla con attuatore J4C Elettrico**

ART.VFX25D — **Butterfly valves with J4C Electric actuator**

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	S20	S20	S20	S20	S20	S35
CODICE	VFX20D-15-S20	VFX20D-20-S20	VFX20D-25-S20	VFX20D-32-S20	VFX20D-40-S20	VFX20D-50-S35
SIZE	65	80	100			
PN	7	7	7			
ATT.	S55	S85	S85			
CODICE	VFX20D-65-S55	VFX20D-80-S85	VFX20D-100-S85			

2 WAY SANITARY VALVE VFX20M - VFX25M

Specifications PN 6 VFX20M AISI 304L
VFX25M AISI 316L

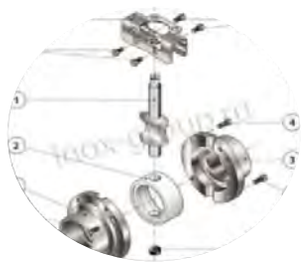


(SIZE RANGE) DN25 TO DN100 DIN 11851 MF -
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15 +200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATO

ART. VFX20M DIN MF 11851 AISI 304
ART. VFX25M DIN MF 11851 AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm
Butterfly valves with bracket



SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX20M-15	VFX20M-20	VFX20M-25	VFX20M-32	VFX20M-40	VFX20M-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX20M-65	VFX20M-80	VFX20M-100			



ART.VFX20M Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX25M Butterfy valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT52DX	AT63DX
CODICE	VFX20M-15-AT40D	VFX20M-20-AT40D	VFX20M-25-AT40D	VFX20M-32-AT52D	VFX20M-40-AT52D	VFX20M-50-AT63D
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT63DX	AT75DX	AT83DX			
CODICE	VFX20M-65-AT63D	VFX20M-80-AT75D	VFX20M-100AT83D			



ART.VFX20M Valvola a farfalla con attuatore AT Semplice Effetto

ART.VFX25M Butterfly valves with AT actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	AT52SX	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX
CODICE	VFX20M-15-AT52S	VFX20M-20-AT52S	VFX20M-25-AT52S	VFX20M-32-AT63S	VFX20M-40-AT75S	VFX20M-50-AT83S
SIZE	65	80	100			
PN	7	7	7			
ATT.	AT92SX	AT105SX	AT125SX			
CODICE	VFX20M-65-AT92S	VFX20M80-AT105S	VFX20M100-AT125S			



ART.VFX20M Valvola a farfalla con attuatore FM21-ED

ART.VFX25M Butterfly valves with AT actuator FM21-ED

Double Effect

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX20M-15-FM21ED	VFX20M-20-FM21ED	VFX20M-25-FM21ED	VFX20M-32-FM21ED	VFX20M-40-FM21ED	VFX20M-50-FM21ED
SIZE	65					
PN	7					
ATT.	FM21ED					
COD.	VFX20M-65-FM21ED					



ART.VFX20M Valvola a farfalla con attuatore FM21E Semplice Effetto

ART.VFX25M Butterfly valves with FM21E actuator S.E

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E	FM21E	FM21E
CODICE	VFX20M15 -FM21E	VFX20M20 -FM21E	VFX20M25-FM21E	VFX20M32-FM21E	VFX20M40-FM21E	VFX20M50-FM21E



ART. VFX20M Valvola a farfalla con attuatore J4C Elettrico

ART.VFX25M Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
ATT.	S20	S20	S20	S20	S20	S35
CODICE	VFX20M-15-S20	VFX20M-20-S20	VFX20M-25-S20	VFX20M-32-S20	VFX20M-40-S20	VFX20M-50-S35
SIZE	65	80	100			
PN	7	7	7			
ATT.	S55	S85	S85			
CODICE	VFX20M-65-S55	VFX20M-80-S85	VFX20M-100-S85			

2 WAY SANITARY VALVE VFX30 - VFX35

Specifications PN 6 VFX30 AISI 304L
VFX35 AISI 316L

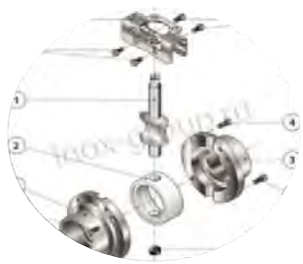


(SIZE RANGE) DN25 TO DN100 ISO 228-BSP
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316LPN 6
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15 +200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

ART. VFX30 228- BSP AISI 304
ART. VFX35 228- BSP AISI 316

Suffix: S = Silicone – MVQ F = Viton FKM E = Epdm
Butterfly valves with bracket



SIZE	1	1 1/2	2	2 1/2	3	4
PN	7	7	7	7	7	7
CODICE	VFX30-1	VFX30-11/2	VFX30-2	VFX30-21/2	VFX30-3	VFX30-4



ART.VFX30 Valvola a farfalla con attuatore AT Doppio Effetto

ART.VFX35 Butterfy valves with AT actuator DE

SIZE	1	1 1/2	2	2 1/2	3	4
PN	7	7	7	7	7	7
ATT.	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX	AT83DX
CODICE	VFX30-1-AT40D	VFX30-112-AT52D	VFX30-2-AT63D	VFX30-212-AT63D	VFX30-3-AT75D	VFX30-4-AT83D



ART.VFX30 Valvola a farfalla con attuatore AT Semplice Effetto

ART.VFX35 Butterfly valves with AT actuator S.E

SIZE	1	1 1/2	2	2 1/2	3	4
PN	7	7	7	7	7	7
ATT.	AT52SX	AT75SX	AT83SX	AT92SX	AT105SX	AT125SX
CODICE	VFX30-1-AT52S	VFX30-112-AT75S	VFX30-2-AT83S	VFX30-212-AT92S	VFX30-3-AT105S	VFX30-4-AT125S



ART.VFX30 Valvola a farfalla con attuatore FM21-ED

ART.VFX35 Butterfly valves with AT actuator FM21-ED

DoubleEeffect

SIZE	1	1 1/2	2	2 1/2	3
PN	7	7	7	7	7
ATT.	FM21ED	FM21ED	FM21ED	FM21ED	FM21ED
COD.	VFX30-1-FM21ED	VFX30-112-FM21ED	VFX30-2-FM21ED	VFX30-212-FM21ED	VFX30-3-FM21ED



ART.VFX30 Valvola a farfalla con attuatore FM21E Semplice Effetto

ART.VFX35 Butterfly valves with FM21E actuator S.E

SIZE	1	1 1/2	2	2 1/2
PN	7	7	7	7
ATT.	FM21E	FM21E	FM21E	FM21E
CODICE	VFX30-1-FM21E	VFX30-112-FM21E	VFX30-2-FM21E	VFX30-212-FM21E



ART. VFX30 Valvola a farfalla con attuatore J4C Elettrico

ART. VFX35 Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1	1 1/2	2	2 1/2
PN	7	7	7	7
ATT.	S20	S20	S35	S55
CODICE	VFX30-1-S20	VFX30-112-S20	VFX30-2-S35	VFX30-212-S55

ON DEMAND

2 WAY SANITARY VALVE VFX40 - VFX45



Specifications PN 6 VFX40 AISI 304L
VFX45 AISI 316L

(SIZE RANGE) VFX40 DN25 TO DN150 WELDING
DIN 11850
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) INOX A304L/A316L PN 16
(DISC MATERIALS) INOX A304L/A316L
(SEALING MATERIALS) MVQ -50 +200C
FKM -15+200C
EPDM -30 +140C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR

ON REQUEST:
M.O.C.A. CE 1935/2004
VERTICAL ACTUATOR

INOX ST ACTUATOR



2 WAY BALL VALVE C160



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 500
(DISC MATERIALS) A105
(SEALING MATERIALS) NBR
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -20 +100C



MOUNTING BRACKET

ART.C160 **Valvola a sfera A105 ISO 5211 – Ball valves with ISO 5211**

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
CODICE	C160-1/4	C160-3/8	C160-1/2	C160-3/4	C160-1



ART. C160 **Valvola a sfera con attuatore AT doppio effetto**

Ball valves with AT actuator DE

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUATORE	AT52DX	AT52DX	AT52DX	AT63DX	AT75DX
CODICE	C160-1/4-AT52DX	C160-3/8-AT52DX	C160-1/2-AT52DX	C160-3/4-AT63DX	C160-1-AT75DX



ART. C160 **Valvola a sfera con attuatore Semplice Effetto**

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUATORE	AT83SX	AT83SX	AT83SX	AT92SX	AT105SX
CODICE	C160-1/4-AT83SX	C160-3/8-AT83SX	C160-1/2-AT83SX	C160-3/4-AT92SX	C160-1-AT105S



ART. C160 **Valvola a sfera con attuatore J4C Elettrico**

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUATORE	S35	S35	S35	S55	S55
CODICE	C160-1/4-S35	C160-3/8-S35	C160-1/2-S35	C160-3/4-S55	C160-1-S55

3 WAY PNEUMATIC BALL VALVE C161L – C162T





Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 500
(DISC MATERIALS) A105
(SEALING MATERIALS) NBR
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -20 +100C

MOUNTING BRACKET
INGRESSO DALLA PORTA CENTRALE
INPUT CENTRAL PORT

ART.C161L Valvola a sfera A105 ISO 5211 – Ball valves with ISO 5211
ART.C162T Valvola a sfera A105 ISO 5211 – Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
161-L	C161L-1/4	C161L-3/8	C161L-1/2	C161L-3/4	C161L-1
162-T	C162T-1/4	C162T-3/8	C162T-1/2	C162T-3/4	C162T-1



ART. C161L Valvola a sfera con attuatore AT Doppio Effetto

ART.C162T Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUAT.	AT52DX	AT52DX	AT52DX	AT63DX	AT75DX
161-L	C161L-1/4-AT52DX	C161L-3/8-AT52DX	C161L-1/2-AT52DX	C161L-3/4-AT63DX	C161L-1-AT75DX
162-T	C162T-1/4-AT52DX	C162T-3/8-AT52DX	C162T-1/2-AT52DX	C162T-3/4-AT63DX	C162T-1-AT75DX



ART. C161L Valvola a sfera con attuatore Semplice Effetto

ART.C162T Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUAT.	AT83SX	AT83SX	AT83SX	AT92SX	AT105SX
161-L	C161L-1/4-AT83SX	C161L-3/8-AT83SX	C161L-1/2-AT83SX	C161L-3/4-AT92SX	C161L-1-AT105S
162-T	C162T-1/4-AT83SX	C162T-3/8-AT83SX	C162T-1/2-AT83SX	C162T-3/4-AT92SX	C162T-1-AT105S



ART. C161L **Valvola a sfera con attuatore J4C Elettrico**

ART.C162T **Ball valves with J4C Electric actuator**

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1
PN	500	500	500	400	350
ATTUAT.	S35	S35	S35	S55	S55
161-L	C161L-1/4-S35	C161L-3/8-S35	C161L-1/2-S35	C161L-3/4-S55	C161L-1-S55
162-T	C162T-1/4-S35	C162T-3/8-S35	C162T-1/2-S35	C162T-3/4-S55	C162T-1-S55

2 WAY BALL VALVE CAMVL20/20R



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) A106 PN 100-64
(DISC MATERIALS) INOX 316
(SEALING MATERIALS) PTFE/DELRIN
(TEMPERATURE) -20 +100C

ON REQUEST:
800PSI-3000PSI
2500PSI-6000PSI
PTFE + CARBON GRAFITE
BSP OR NPT MALE AND FAMELE ENDS
SW-BW ENDS
FIRE SAFE
ANTISTATIC DEVICE
TA-LUFT EXECUTION
EXECUTION FOR GAS SERVICE
DEGREASING FOR OXIGEN

ART. CAMVL20 Valvola a sfera con leva – Ball valves with level

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
CODICE	CAMVL20-1/4	CAMVL20-3/8	CAMVL20-1/2	CAMVL20-3/4	CAMVL20-1	CAMVL20-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	100	100	64	64	64	
CODICE	CAMVL20-11/2	CAMVL20-2	CAMVL20-21/2	CAMVL20-3	CAMVL20-4	



MOUNTING BRACKET

ART. CAMVL20R Valvola a sfera ISO 5211 Ball valves with ISO 5211

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
CODICE	CAMVL20R-1/4	CAMVL20R-3/8	CAMVL20R-1/2	CAMVL20R-3/4	CAMVL20R-1	CAMVL20R-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	100	100	64	64	64	
CODICE	CAMVL20R-11/2	CAMVL20R-2	CAMVL20R-21/2	CAMVL20R-3	CAMVL20R-4	



ART. CAMVL20R

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	AT52DX	AT52DX	AT63DX	AT63DX	AT63DX	AT92DX
COD.	CVL20R-14-AT52D	CVL20R-38-AT52D	CVL20R-12-AT63D	CVL20R-34-AT63D	CVL20R-1-AT63D	CVL20R-114-AT92D
SIZE	1 1/2	2				
PN	100	100				
ATTU.	AT105DX	AT105DX				
COD.	CVL20R-112-AT105D	CVL20R-2-AT105D				



ART. CAMVL20R

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX	AT105SX
COD.	CVL20R-14-AT63S	CVL20R-38-AT63S	CVL20R-12-AT75S	CVL20R-34-AT75S	CVL20R-1-AT83S	CVL20R-114-AT105S
SIZE	1 1/2	2				
PN	100	100				
ATTU.	AT105SX	AT125SX				
COD.	CVL20R-112-AT105S	CVL20R-2-AT125S				



ART. CAMVL20R

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	100	100
ATTU.	S35	S35	S35	S55	S55	S140
CODICE	CVL20R-14-S35	CVL20R-38-S35	CVL20R-12-S35	CVL20R-34-S55	CVL20R-1-S55	CVL20R-114-S140
SIZE	1 1/2	2				
PN	100	100				
ATTU.	S140	S300				
CODICE	CVL20R-112-S140	CVL20R-2-S300				

FLANGED BALL VALVE CAMVL10



Specifications

(SIZE RANGE) DN15 TO DN150, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE – PTFE
CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C

ON REQUEST:
INTEGRAL SEAL
PN16-40-64-100
ANSI150-300-600
FIRE SAFE
ANTISTATIC DEVICE
DEGREASING FOR OXYGEN

SEALS MADE OF:
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
HEATING JACKET

ART. CAMVL10 Valvola a sfera con flangia ISO 5211 – Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAMVL10-15	CAMVL10-20	CAMVL10-25	CAMVL10-32	CAMVL10-40	CAMVL10-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAMVL10-65	CAMVL10-80	CAMVL10-100	CAMVL10-125	CAMVL10-150	



ART. CAMVL10 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT40DX	AT52DX	AT63DX	AT63DX	AT63DX	AT75DX
COD.	CAMVL10-15-AT40D	CAMVL10-20-AT52D	CAMVL10-25-AT63D	CAMVL10-32-AT63D	CAMVL10-40-AT63D	CAMVL10-50-AT75D
SIZE	65	80	100	125		
PN	16	16	16	16		
ATT.	AT92DX	AT92DX	AT125DX	AT140DX		
COD.	CAMVL10-65-AT92D	CAMVL10-80-AT92D	CAMVL10100AT125D	CAMVL10125AT140D		



ART. CAMVL10 Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT83SX	AT92SX	AT92SX	AT105SX
COD.	CAMVL10-15-AT63S	CAMVL10-20-AT63S	CAMVL10-25-AT83S	CAMVL10-40-AT92S	CAMVL10-40-AT92S	CAMVL1050AT105S
SIZE	65	80	100			
PN	16	16	16			
ATT.	AT125SX	AT140SX	AT160SX			
COD.	CAMVL1065AT125S	CAMVL1080AT140S	CAMVL10100AT160S			



ART. CAMVL10 Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S55	S55	S55	S85
CODICE	CAMVL10-15-S20	CAMVL10-20-S20	CAMVL10-25-S55	CAMVL10-32-S55	CAMVL10-40-S55	CAMVL10-50-S85
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAMVL10-65-S85	CAMVL10-80-S140	CAMVL10-100-S300			

FLANGED SPLIT BODY BALL VALVE CAMVL60





Specifications

(SIZE RANGE) DN15 TO DN150, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE – PTFE CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C

ON REQUEST:
INTEGRAL SEAL
PN16-40-64-100
ANSI 150 CAMVL64 – ANSI 300 CAMVL68
ANSI 600 CAMVL70 – ANSI 1500 CAMVL80 – ANSI 2500 CAMVL90
FIRE SAFE
ANTISTATIC DEVICE
DEGREASING FOR OXYGEN
P.T.F.E. WITH CARBOGRAPHITE -20 +180C
HEATING JACKET

ART. CAMVL60 Valvola a sfera con ISO 5211 - Ball valves with ISO 5211

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAMVL60-15	CAMVL60-20	CAMVL60-25	CAMVL60-32	CAMVL60-40	CAMVL60-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	CAMVL60-65	CAMVL60-80	CAMVL60-100	CAMVL60-125	CAMVL60-150	



ART. CAMVL60

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT40DX	AT52DX	AT63DX	AT63DX	AT63DX	AT75DX
COD.	CAMVL60-15-AT40D	CAMVL60-20-AT52D	CAMVL60-25-AT63D	CAMVL60-32-AT63D	CAMVL60-40-AT63D	CAMVL60-50-AT75D
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
ATTU.	AT92DX	AT92DX	AT125DX	AT125DX		
COD.	CAMVL60-65-AT92D	CAMVL60-80-AT92D	CAMVL60100AT105D	CAMVL60125AT125D		



ART. CAMVL60

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT83SX	AT92SX	AT92SX	AT105SX
COD.	CAMVL60-15-AT63SX	CAMVL60-20-AT63S	CAMVL60-25-AT83S	CAMVL60-32-AT92S	CAMVL60-40-AT92S	CAMVL6050AT105S
SIZE	65	80	100			
PN	16	16	16			
ATTU.	AT125SX	AT140SX	AT160SX			
COD.	CAMVL6065AT125S	CAMVL6080AT140S	CAMVL60100AT160SX			



ART. CAMVL60 **Valvola a sfera con attuatore J4C Elettrico**

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTU.	S20	S20	S55	S55	S55	S55
CODICE	CAMVL60-15-S20	CAMVL60-20-S20	CAMVL60-25-S55	CAMVL60-32-S55	CAMVL60-40-S55	CAMVL60-50-S85
SIZE	65	80	100			
PN	16	16	16			
ATTU.	S85	S140	S300			
CODICE	CAMVL60-65-S85	CAMVL60-80-S140	CAMVL60-100-S300			

ON DEMAND

FLANGED BALL VALVE CAMVL103T - CAMVL103L



Specifications

(SIZE RANGE) DN15 TO DN100, UNI
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) A105 PN 16
(DISC MATERIALS) AISI 304-316
(SEALING MATERIALS) PTFE – PTFE CARBON GRAPHITE
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -25 +150C

2 WAY BALL VALVE B2



Specifications

(SIZE RANGE) DN15 TO DN250, EN1092/ISO7005
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) CAST IRON PN 16
(BALL MATERIALS) INOX 304
(SEALING MATERIALS) NBR
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C FKM -10+150C
(OPTIONS) -FOR GAS (DVGW) – BODY BRONZE O RING FKM

ART. B2.100 SFERA E ASTA IN OTTONE — **Ball Brass Steam Brass valves with ISO 5211**

ART. B2.110 SFERA AISI 304 E ASTA IN OTTONE — **Ball AISI 304 Steam Brass valves with ISO 5211**

ART. B2.111 SFERA E ASTA IN AISI 304 — **Ball AISI 304 Steam AISI 304 valves with ISO 5211**

ART. B2.121 SFERA E ASTA IN AISI 316 — **Ball AISI 316 Stem AISI 304 valves with ISO 5211**

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
B2.100	B2.100-15	B2.100-20	B2.100-25	B2.100-32	B2.100-40	B2.100-50
B2.110	B2.110-15	B2.110-20	B2.110-25	B2.110-32	B2.110-40	B2.110-50
B2.111	B2.111-15	B2.111-20	B2.111-25	B2.111-32	B2.111-40	B2.111-50
B2.121	B2.121-15	B2.121-20	B2.121-25	B2.121-32	B2.121-40	B2.121-50
SIZE	65	80	100	125		
PN	16	16	16	16		
B2.100	B2.100-65	B2.100-80	B2.100-100	B2.100-125		
B2.110	B2.110-65	B2.110-80	B2.110-100	B2.110-125		
B2.111	B2.111-65	B2.111-80	B2.111-100	B2.111-125		
B2.121	B2.121-65	B2.121-80	B2.121-100	B2.121-125		



ART. B2 Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT52DX	AT52DX	AT52DX	AT63DX	AT63DX	AT63DX
B2.100	B2.100-15-AT52D	B2.100-20-AT52D	B2.100-25-AT52D	B2.100-32-AT63D	B2.100-40-AT63D	B2.100-50-AT63D
B2.110	B2.110-15-AT52D	B2.110-20-AT52D	B2.110-25-AT52D	B2.110-32-AT63D	B2.110-40-AT63D	B2.110-50-AT63D
B2.111	B2.111-15-AT52D	B2.111-20-AT52D	B2.111-25-AT52D	B2.111-32-AT63D	B2.111-40-AT63D	B2.111-50-AT63D
B2.121	B2.121-15-AT52D	B2.121-20-AT52D	B2.121-25-AT52D	B2.121-32-AT63D	B2.121-40-AT63D	B2.121-50-AT63D
SIZE	65	80	100	125		
PN	16	16	16	16		
ATT.	AT75DX	AT92DX	AT105DX	AT125DX		
B2.100	B2.100-65-AT75D	B2.100-80-AT92D	B2.100100-AT105D	B2.100125-AT125D		
B2.110	B2.110-65-AT75D	B2.110-80-AT92D	B2.110100-AT105D	B2.110125-AT125D		
B2.111	B2.111-65-AT75D	B2.111-80-AT92D	B2.111100-AT105D	B2.111125-AT125D		
B2.121	B2.121-65-AT75D	B2.121-80-AT92D	B2.121100-AT105D	B2.121125-AT125D		



ART. B2 Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT75SX	AT75SX	AT75SX	AT75SX	AT83SX	AT83SX
B2.100	B2.100-15-AT75S	B2.100-20-AT75S	B2.100-25-AT75S	B2.100-32-AT75S	B2.100-40-AT83S	B2.100-50-AT83S
B2.110	B2.110-15-AT75S	B2.110-20-AT75S	B2.110-25-AT75S	B2.110-32-AT75S	B2.110-40-AT83S	B2.110-50-AT83S
B2.111	B2.111-15-AT75S	B2.111-20-AT75S	B2.111-25-AT75S	B2.111-32-AT75S	B2.111-40-AT83S	B2.111-50-AT83S
B2.121	B2.121-15-AT75S	B2.121-20-AT75S	B2.121-25-AT75S	B2.121-32-AT75S	B2.121-40-AT83S	B2.121-50-AT83S
SIZE	65	80	100	125		
PN	16	16	16	16		
ATT.	AT92SX	AT125SX	AT140SX	AT160SX		
B2.100	B2.100-65-AT92S	B2.10080-AT125S	B2.100100-AT140S	B2.100125-AT160S		
B2.110	B2.110-65-AT92S	B2.11080-AT125S	B2.110100-AT140S	B2.110125-AT160S		
B2.111	B2.111-65-AT92S	B2.11180-AT125S	B2.111100-AT140S	B2.111125-AT160S		
B2.121	B2.121-65-AT92S	B2.12180-AT125S	B2.121100-AT140S	B2.121125-AT160S		



ART. B2 Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	S35	S35	S35	S35	S35	S35
B2.100	B2.100-15-S35	B2.100-20-S35	B2.100-25-S35	B2.100-32-S35	B2.100-40-S35	B2.100-50-S35
B2.110	B2.110-15-S35	B2.110-20-S35	B2.110-25-S35	B2.110-32-S35	B2.110-40-S35	B2.110-50-S35
B2.111	B2.111-15-S35	B2.111-20-S35	B2.111-25-S35	B2.111-32-S35	B2.111-40-S35	B2.111-50-S35
B2.121	B2.121-15-S35	B2.121-20-S35	B2.121-25-S35	B2.121-32-S35	B2.121-40-S35	B2.121-50-S35
SIZE	65	80	100	125		
PN	16	16	16	16		
ATT.	S55	S140	S140	S300		
B2.100	B2.100-65-S55	B2.10080-S140	B2.100100-S140	B2.100125-S300		
B2.110	B2.110-65-S55	B2.11080-S140	B2.110100-S140	B2.110125-S300		
B2.111	B2.111-65-S55	B2.11180-S140	B2.111100-S140	B2.111125-S300		
B2.121	B2.121-65-S55	B2.12180-S140	B2.121100-S140	B2.121125-S300		



Specifications

(SIZE RANGE) DN20 TO DN100, EN1092/ISO7005
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) CAST IRON PN 16
(BALL MATERIALS) INOX 304
(SEALING MATERIALS) NBR
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C FKM -10+150C
(OPTIONS) O RING FKM

ART. B1.000 SFERA E ASTA IN OTTONE — **Ball Brass Steam Brass valves with ISO 5211**

ART. B1.010 SFERA AISI 304 E ASTA IN OTTONE — **Ball AISI 304 Steam Brass valves with ISO 5211**

ART. B1.011 SFERA E ASTA IN AISI 304 — **Ball AISI 304 Steam AISI 304 valves with ISO 5211**

SIZE	20	25	32	40	50	65
PN	16	16	16	16	16	16
B2.000	B1.000-20	B1.000-25	B1.000-32	B1.000-40	B1.000-50	B1.000-65
B1.010	B1.010-20	B1.010-25	B1.010-32	B1.010-40	B1.010-50	B1.010-65
B1.011	B1.011-20	B1.011-25	B1.011-32	B1.011-40	B1.011-50	B1.011-65
SIZE	80	100				
PN	16	16				
B1.000	B1.000-80	B1.000-100				
B1.010	B1.010-80	B1.010-100				
B1.011	B1.011-80	B1.011-100				



ART. B1 **Valvola a sfera con attuatore AT Doppio Effetto**

Ball valves with AT actuator D.E

SIZE	20	25	32	40	50	65
PN	16	16	16	16	16	16
ATT.	AT52DX	AT52DX	AT63DX	AT63DX	AT63DX	AT75DX
B1.000	B1.000-20-AT52D	B1.000-25-AT52D	B1.000-32-AT63D	B1.000-40-AT63D	B1.000-50-AT63D	B1.000-65-AT75D
B1.010	B1.010-20-AT52D	B1.010-25-AT52D	B1.010-32-AT63D	B1.010-40-AT63D	B1.010-50-AT63D	B1.010-65-AT75D
B1.011	B1.011-20-AT52D	B1.011-25-AT52D	B1.011-32-AT63D	B1.011-40-AT63D	B1.011-50-AT63D	B1.011-65-AT75D
SIZE	80	100				
PN	16	16				
ATT.	AT92DX	AT105DX				
B1.000	B1.000-80-AT92D	B1.000-100-AT105D				
B1.010	B1.010-80-AT92D	B1.010-100-AT105D				
B1.011	B1.011-80-AT92D	B1.011-100-AT105D				



ART. B1 Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	20	25	32	40	50	65
PN	16	16	16	16	16	16
ATT.	AT75SX	AT75SX	AT75SX	AT83SX	AT83SX	AT92SX
B1.000	B1.000-20-AT75S	B1.000-25-AT75S	B1.000-32-AT75S	B1.000-40-AT83S	B1.000-50-AT83S	B1.000-65-AT92S
B1.010	B1.010-20-AT75S	B1.010-25-AT75S	B1.010-32-AT75S	B1.010-40-AT83S	B1.010-50-AT83S	B1.010-65-AT92S
B1.011	B1.011-20-AT75S	B1.011-25-AT75S	B1.011-32-AT75S	B1.011-40-AT83S	B1.011-50-AT83S	B1.011-65-AT92S
SIZE	80	100				
PN	16	16				
ATT.	AT125SX	AT140SX				
B1.000	B1.000-80-AT125S	B1.000-100-AT140S				
B1.010	B1.010-80-AT125S	B1.010-100-AT140S				
B1.011	B1.011-80-AT125S	B1.011-100-AT140S				



ART. B1 Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	20	25	32	40	50	65
PN	16	16	16	16	16	16
ATT.	S35	S35	S35	S35	S35	S55
B1.000	B1.000-20-S35	B1.000-25-S35	B1.000-32-S35	B1.000-40-S35	B1.000-50-S35	B1.000-65-S55
B1.010	B1.010-20-S35	B1.010-25-S35	B1.010-32-S35	B1.010-40-S35	B1.010-50-S35	B1.010-65-S55
B1.011	B1.011-20-S35	B1.011-25-S35	B1.011-32-S35	B1.011-40-S35	B1.011-50-S35	B1.011-65-S55
SIZE	80	100				
PN	16	16				
ATT.	S140	S140				
B1.000	B1.000-80-S140	B1.000-100-S140				
B1.010	B1.010-80-S140	B1.010-100-S140				
B1.011	B1.011-80-S140	B1.011-100-S140				

ON DEMAND

3 WAY BALL VALVE T4



Specifications

(SIZE RANGE) DN50 TO DN150, EN1092/ISO7005
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) CAST IRON PN 16
(BALL MATERIALS) INOX 304
(SEALING MATERIALS) NBR
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C FKM -10 +150C
(OPTION) -Y TYPE AND T4.100
BALL AND STEM BRASS

2 WAY BALL VALVE B2.7



Specifications

(SIZE RANGE) DN15 TO DN250, EN1092/ISO7005
(OPERATING PRESSURE) 8 BAR
(BODY MATERIALS) BRONZE
(BALL MATERIALS) INOX 316
(SEALING MATERIALS) PTFE
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +100C FKM -10 +150C
(OPTION) B2.300 BALL AND STEM BRASS
B2.377 BALL AND STEAM BRONZE
ALLUMINIUM
S2 ANSI 150 FULL BORE
B2.7 BRONZE -ALLUMINIUM

CAST IRON WAFER BUTTERFLY VALVE J9

DM 174



Specifications

(SIZE RANGE) DN25 TO DN600
(OPERATING PRESSURE) 1.0 TO 1.6MPA
(BODY MATERIALS) DUCTILE IRON, STAINLESS STEEL PN16
(DISC MATERIALS)CAST IRON, STAINLESS STEEL, ALLUMINIUM -BRONZE
(SEALING MATERIALS) NBR, EPDM, FKM (VITON), PTFE (TEFLON)
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +150C
(OPTIONS) SEAL EPDM HT – PTFE+EPDM – NYLON 11 FOR GAS / FOR DRINKING WATER

ART. J9.100 GHISA-EPDM
ART. J9.101 GHISA-NBR LEVA GIALLA PER GAS
ART. J9.102 GHISA -FKM
ART. J9.120 INOX- EPDM
ART. J9.121 INOX-NBR LEVA GIALLA PER GAS
ART. J9.122 INOX -FKM
ART. J9.128 INOX- GOMMA WRAS
ART. J9.170 BRONZO ALLUMINIO- EPDM
ART. J9.171 BRONZO ALLUMINIO- NBR
ART. J9.172 BRONZO ALLUMINIO- FKM

TEMPERATURE

EPDM -10 +120C
EPDM WRAS -10 +80C
NBR -10 +80C
FKM -10 +150C

DAL DN 300 AL DN 600 COMPLETE DI RIDUTTORE RM FROM DN 300 TO DN 600 WITH GEAR BOX

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
J9.100	J9.100-25	J9.100-32	J9.100-40	J9.100-50	J9.100-65	J9.100-80
J9.101	J9.101-25	J9.101-32	J9.101-40	J9.101-50	J9.101-65	J9.101-80
J9.102			J9.102-40	J9.102-50	J9.102-65	J9.102-80
J9.120	J9.120-25	J9.120-32	J9.120-40	J9.120-50	J9.120-65	J9.120-80
J9.121	J9.121-25	J9.121-32	J9.121-40	J9.121-50	J9.121-65	J9.121-80
J9.122			J9.122-40	J9.122-50	J9.122-65	J9.122-80
J9.128			J9.128-40	J9.128-50	J9.128-65	J9.128-80
J9.170			J9.170-40	J9.170-50	J9.170-65	J9.170-80
J9.171			J9.171-40	J9.171-50	J9.171-65	J9.171-80
J9.172			J9.172-40	J9.172-50	J9.172-65	J9.172-80
SIZE	100	125	150	200	250	300
PN	16	16	16	16		
J9.100	J9.100-100	J9.100-125	J9.100-150	J9.100-200	J9.100-250	J9.100-300
J9.101	J9.101-100	J9.101-125	J9.101-150	J9.101-200	J9.101-250	J9.101-300
J9.102	J9.102-100	J9.102-125	J9.102-150	J9.102-200	J9.102-250	J9.102-300
J9.120	J9.120-100	J9.120-125	J9.120-150	J9.120-200	J9.120-250	J9.120-300
J9.121	J9.121-100	J9.121-125	J9.121-150	J9.121-200	J9.121-250	J9.121-300
J9.122	J9.122-100	J9.122-125	J9.122-150	J9.122-200	J9.122-250	J9.122-300
J9.128	J9.128-100	J9.128-125	J9.128-150	J9.128-200	J9.128-250	J9.128-300
J9.170	J9.170-100	J9.170-125	J9.170-150	J9.170-200	J9.170-250	J9.170-300
J9.171	J9.171-100	J9.171-125	J9.171-150	J9.171-200	J9.171-250	J9.171-300
J9.172	J9.172-100	J9.172-125	J9.172-150	J9.172-200	J9.172-250	J9.172-300



ART.J9 Valvola a farfalla Wafer con attuatore AT Doppio effetto

Wafer Butterfly with AT actuator D.E

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
J9.100	J9.100-25-AT40DX	J9.100-32-AT40DX	J9.100-40-AT40DX	J9.100-50-AT52DX	J9.100-65-AT63DX	J9.100-80-AT63DX
J9.101	J9.101-25-AT40DX	J9.101-32-AT40DX	J9.101-40-AT40DX	J9.101-50-AT52DX	J9.101-65-AT63DX	J9.101-80-AT63DX
J9.102			J9.102-40-AT40DX	J9.102-50-AT52DX	J9.102-65-AT63DX	J9.102-80-AT63DX
J9.120	J9.120-25-AT40DX	J9.120-32-AT40DX	J9.120-40-AT40DX	J9.120-50-AT52DX	J9.120-65-AT63DX	J9.120-80-AT63DX
J9.121	J9.121-25-AT40DX	J9.121-32-AT40DX	J9.121-40-AT40DX	J9.121-50-AT52DX	J9.121-65-AT63DX	J9.121-80-AT63DX
J9.122			J9.122-40-AT40DX	J9.122-50-AT52DX	J9.122-65-AT63DX	J9.122-80-AT63DX
J9.128			J9.128-40-AT40DX	J9.128-50-AT52DX	J9.128-65-AT63DX	J9.128-80-AT63DX
J9.170			J9.170-40-AT40DX	J9.170-50-AT52DX	J9.170-65-AT63DX	J9.170-80-AT63DX
J9.171			J9.171-40-AT40DX	J9.171-50-AT52DX	J9.171-65-AT63DX	J9.171-80-AT63DX
J9.172			J9.172-40-AT40DX	J9.172-50-AT52DX	J9.172-65-AT63DX	J9.172-80-AT63DX
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	AT75DX	AT92DX	AT92DX	AT125DX	AT140DX	AT160DX
J9.100	J9.100-100-AT75D	J9.100-125-AT92D	J9.100-150-AT92D	J9.100200-AT125D	J9.100250-AT140D	J9.100300-AT160D
J9.101	J9.101-100-AT75D	J9.101-125-AT92D	J9.101-150-AT92D	J9.101200-AT125D	J9.101250-AT140D	J9.101300-AT160D
J9.102	J9.102-100-AT75D	J9.102-125-AT92D	J9.102-150-AT92D	J9.102200-AT125D	J9.102250-AT140D	J9.102300-AT160D
J9.120	J9.120-100-AT75D	J9.120-125-AT92D	J9.120-150-AT92D	J9.120200-AT125D	J9.120250-AT140D	J9.120300-AT160D
J9.121	J9.121-100-AT75D	J9.121-125-AT92D	J9.121-150-AT92D	J9.121200-AT125D	J9.121250-AT140D	J9.121300-AT160D
J9.122	J9.122-100-AT75D	J9.122-125-AT92D	J9.122-150-AT92D	J9.122200-AT125D	J9.122250-AT140D	J9.122300-AT160D
J9.128	J9.128-100-AT75D	J9.128-125-AT92D	J9.128-150-AT92D	J9.128200-AT125D	J9.128250-AT140D	J9.128300-AT160D
J9.170	J9.170-100-AT75D	J9.170-125-AT92D	J9.170-150-AT92D	J9.170200-AT125D	J9.170250-AT140D	J9.170300-AT160D
J9.171	J9.171-100-AT75D	J9.171-125-AT92D	J9.171-150-AT92D	J9.171200-AT125D	J9.171250-AT140D	J9.171300-AT160D
J9.172	J9.172-100-AT75D	J9.172-125-AT92D	J9.172-150-AT92D	J9.172200-AT125D	J9.172250-AT140D	J9.172300-AT160D



ART.J9

Valvola a farfalla Wafer con attuatore AT Semplice Effetto

Wafer Butterfly with AT actuator S.E

10 Spring Single Acting

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX	AT92SX
J9.100	J9.100-25-AT52SX	J9.100-32-AT52SX	J9.100-40-AT63SX	J9.100-50-AT75SX	J9.100-65-AT83SX	J9.100-80-AT92SX
J9.101	J9.101-25-AT52SX	J9.101-32-AT52SX	J9.101-40-AT63SX	J9.101-50-AT75SX	J9.101-65-AT83SX	J9.101-80-AT92SX
J9.102			J9.102-40-AT63SX	J9.102-50-AT75SX	J9.102-65-AT83SX	J9.102-80-AT92SX
J9.120	J9.120-25-AT52SX	J9.120-32-AT52SX	J9.120-40-AT63SX	J9.120-50-AT75SX	J9.120-65-AT83SX	J9.120-80-AT92SX
J9.121	J9.121-25-AT52SX	J9.121-32-AT52SX	J9.121-40-AT63SX	J9.121-50-AT75SX	J9.121-65-AT83SX	J9.121-80-AT92SX
J9.122			J9.122-40-AT63SX	J9.122-50-AT75SX	J9.122-65-AT83SX	J9.122-80-AT92SX
J9.128			J9.128-40-AT63SX	J9.128-50-AT75SX	J9.128-65-AT83SX	J9.128-80-AT92SX
J9.170			J9.170-40-AT63SX	J9.170-50-AT75SX	J9.170-65-AT83SX	J9.170-80-AT92SX
J9.171			J9.171-40-AT63SX	J9.171-50-AT75SX	J9.171-65-AT83SX	J9.171-80-AT92SX
J9.172			J9.172-40-AT63SX	J9.172-50-AT75SX	J9.172-65-AT83SX	J9.172-80-AT92SX
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	AT105SX	AT125SX	AT140SX	AT160SX	AT190SX	AT210SX
J9.100	J9.100100-AT105S	J9.100125-AT125S	J9.100150-AT140S	J9.100200-AT160S	J9.100250-AT190S	J9.100300-AT210S
J9.101	J9.101100-AT105S	J9.101125-AT125S	J9.101150-AT140S	J9.101200-AT160S	J9.101250-AT190S	J9.101300-AT210S
J9.102	J9.102100-AT105S	J9.102125-AT125S	J9.102150-AT140S	J9.102200-AT160S	J9.102250-AT190S	J9.102300-AT210S
J9.120	J9.120100-AT105S	J9.120125-AT125S	J9.120150-AT140S	J9.120200-AT160S	J9.120250-AT190S	J9.120300-AT210S
J9.121	J9.121100-AT105S	J9.121125-AT125S	J9.121150-AT140S	J9.121200-AT160S	J9.121250-AT190S	J9.121300-AT210S
J9.122	J9.122100-AT105S	J9.122125-AT125S	J9.122150-AT140S	J9.122200-AT160S	J9.122250-AT190S	J9.122300-AT210S
J9.128	J9.128100-AT105S	J9.128125-AT125S	J9.128150-AT140S	J9.128200-AT160S	J9.128250-AT190S	J9.128300-AT210S
J9.170	J9.170100-AT105S	J9.170125-AT125S	J9.170150-AT140S	J9.170200-AT160S	J9.170250-AT190S	J9.170300-AT210S
J9.171	J9.171100-AT105S	J9.171125-AT125S	J9.171150-AT140S	J9.171200-AT160S	J9.171250-AT190S	J9.171300-AT210S
J9.172	J9.172100-AT105S	J9.172125-AT125S	J9.172150-AT140S	J9.172200-AT160S	J9.172250-AT190S	J9.172300-AT210S



ART. J9 Valvola a farfalla Wafer con attuatore J4C Elettrico

Wafer Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S20	S35	S55
J9.100	J9.100-25-S20	J9.100-32-S20	J9.100-40-S20	J9.100-50-S20	J9.100-65-S35	J9.100-80-S55
J9.101	J9.101-25-S20	J9.101-32-S20	J9.101-40-S20	J9.101-50-S20	J9.101-65-S35	J9.101-80-S55
J9.102			J9.102-40-S20	J9.102-50-S20	J9.102-65-S35	J9.102-80-S55
J9.120	J9.120-25-S20	J9.120-32-S20	J9.120-40-S20	J9.120-50-S20	J9.120-65-S35	J9.120-80-S55
J9.121	J9.121-25-S20	J9.121-32-S20	J9.121-40-S20	J9.121-50-S20	J9.121-65-S35	J9.121-80-S55
J9.122			J9.122-40-S20	J9.122-50-S20	J9.122-65-S35	J9.122-80-S55
J9.128			J9.128-40-S20	J9.128-50-S20	J9.128-65-S35	J9.128-80-S55
J9.170			J9.170-40-S20	J9.170-50-S20	J9.170-65-S35	J9.170-80-S55
J9.171			J9.171-40-S20	J9.171-50-S20	J9.171-65-S35	J9.171-80-S55
J9.172			J9.172-40-S20	J9.172-50-S20	J9.172-65-S35	J9.172-80-S55
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	S85	S140	S140	S300		
J9.100	J9.100-100-S85	J9.100-125-S140	J9.100-150-S140	J9.100-200-S300	RIC.	
J9.101	J9.101-100-S85	J9.101-125-S140	J9.101-150-S140	J9.101-200-S300		
J9.102	J9.102-100-S85	J9.102-125-S140	J9.102-150-S140	J9.102-200-S300		
J9.120	J9.120-100-S85	J9.120-125-S140	J9.120-150-S140	J9.120-200-S300		
J9.121	J9.121-100-S85	J9.121-125-S140	J9.121-150-S140	J9.121-200-S300		
J9.122	J9.122-100-S85	J9.122-125-S140	J9.122-150-S140	J9.122-200-S300		
J9.128	J9.128-100-S85	J9.128-125-S140	J9.128-150-S140	J9.128-200-S300		
J9.170	J9.170-100-S85	J9.170-125-S140	J9.170-150-S140	J9.170-200-S300		
J9.171	J9.171-100-S85	J9.171-125-S140	J9.171-150-S140	J9.171-200-S300		
J9.172	J9.172-100-S85	J9.172-125-S140	J9.172-150-S140	J9.172-200-S300		

CAST IRON LUG BUTTERFLY VALVE L9

DM 174



Specifications

(SIZE RANGE) DN25 TO DN600
(OPERATING PRESSURE) 1.0 TO 1.6MPA
(BODY MATERIALS) DUCTILE IRON, STAINLESS STEEL PN16
(DISC MATERIALS) CAST IRON, STAINLESS STEEL, ALLUMINIUM -BRONZE
(SEALING MATERIALS) NBR, EPDM, FKM (VITON), PTFE (TEFLON)
(ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
(TEMPERATURE) -10 +150C
(OPTIONS) SEAL EPDM HT – PTFE+EPDM – DISK INOX/PTFE FOR GA S / FOR DRINKING WATER

DAL DN 200 AL DN 600 SPECIFICARE SE PN16 O PN 10
FROM DN 200 TO DN 600 SPECIFY IF PN 10 OR PN 16

ART. L9.100 GHISA-EPDM
ART. L9.101 GHISA-NBR LEVA GIALLA PER GAS
ART. L9.102 GHISA -FKM
ART. L9.120 INOX- EPDM
ART. L9.121 INOX-NBR LEVA GIALLA PER GAS
ART. L9.122 INOX -FKM
ART. L9.128 INOX- GOMMA WRAS
ART. L9.170 BRONZO ALLUMINIO- EPDM
ART. L9.171 BRONZO ALLUMINIO- NBR
ART. L9.172 BRONZO ALLUMINIO- FKM

TEMPERATURE

EPDM -10 +120C
EPDM WRAS -10 +80C
NBR -10 +80C
FKM -10 +150C

DAL DN 300 AL DN 600 COMPLETE DI RIDUTTORE RM
FROM DN 300 TO DN 600 WITH GEAR BOX

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
L9.100	L9.100-25	L9.100-32	L9.100-40	L9.100-50	L9.100-65	L9.100-80
L9.101	L9.101-25	L9.101-32	L9.101-40	L9.101-50	L9.101-65	L9.101-80
L9.102			L9.102-40	L9.102-50	L9.102-65	L9.102-80
L9.120	L9.120-25	L9.120-32	L9.120-40	L9.120-50	L9.120-65	L9.120-80
L9.121	L9.121-25	L9.121-32	L9.121-40	L9.121-50	L9.121-65	L9.121-80
L9.122			L9.122-40	L9.122-50	L9.122-65	L9.122-80
L9.128			L9.128-40	L9.128-50	L9.128-65	L9.128-80
L9.170			L9.170-40	L9.170-50	L9.170-65	L9.170-80
L9.171			L9.171-40	L9.171-50	L9.171-65	L9.171-80
L9.172			L9.172-40	L9.172-50	L9.172-65	L9.172-80
SIZE	100	125	150	200	250	300
PN	16	16	16	16		
L9.100	L9.100-100	L9.100-125	L9.100-150	L9.100-200	L9.100-250	L9.100-300
L9.101	L9.101-100	L9.101-125	L9.101-150	L9.101-200	L9.101-250	L9.101-300
L9.102	L9.102-100	L9.102-125	L9.102-150	L9.102-200	L9.102-250	L9.102-300
L9.120	L9.120-100	L9.120-125	L9.120-150	L9.120-200	L9.120-250	L9.120-300
L9.121	L9.121-100	L9.121-125	L9.121-150	L9.121-200	L9.121-250	L9.121-300
L9.122	L9.122-100	L9.122-125	L9.122-150	L9.122-200	L9.122-250	L9.122-300
L9.128	L9.128-100	L9.128-125	L9.128-150	L9.128-200	L9.128-250	L9.128-300
L9.170	L9.170-100	L9.170-125	L9.170-150	L9.170-200	L9.170-250	L9.170-300
L9.171	L9.171-100	L9.171-125	L9.171-150	L9.171-200	L9.171-250	L9.171-300
L9.172	L9.172-100	L9.172-125	L9.172-150	L9.172-200	L9.172-250	L9.172-300



ART.L9 Valvola a farfalla Lug con attuatore AT Doppio Effetto

Lug Butterfly with AT actuator D.E

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	AT40DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
L9.100	L9.100-25-AT40DX	L9.100-32-AT40DX	L9.100-40-AT40DX	L9.100-50-AT52DX	L9.100-65-AT63DX	L9.100-80-AT63DX
L9.101	L9.101-25-AT40DX	L9.101-32-AT40DX	L9.101-40-AT40DX	L9.101-50-AT52DX	L9.101-65-AT63DX	L9.101-80-AT63DX
L9.102			L9.102-40-AT40DX	L9.102-50-AT52DX	L9.102-65-AT63DX	L9.102-80-AT63DX
L9.120	L9.120-25-AT40DX	L9.120-32-AT40DX	L9.120-40-AT40DX	L9.120-50-AT52DX	L9.120-65-AT63DX	L9.120-80-AT63DX
L9.121	L9.121-25-AT40DX	L9.121-32-AT40DX	L9.121-40-AT40DX	L9.121-50-AT52DX	L9.121-65-AT63DX	L9.121-80-AT63DX
L9.122			L9.122-40-AT40DX	L9.122-50-AT52DX	L9.122-65-AT63DX	L9.122-80-AT63DX
L9.128			L9.128-40-AT40DX	L9.128-50-AT52DX	L9.128-65-AT63DX	L9.128-80-AT63DX
L9.170			L9.170-40-AT40DX	L9.170-50-AT52DX	L9.170-65-AT63DX	L9.170-80-AT63DX
L9.171			L9.171-40-AT40DX	L9.171-50-AT52DX	L9.171-65-AT63DX	L9.171-80-AT63DX
L9.172			L9.172-40-AT40DX	L9.172-50-AT52DX	L9.172-65-AT63DX	L9.172-80-AT63DX
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	AT75DX	AT92DX	AT92DX	AT125DX	AT140DX	AT160DX
L9.100	L9.100-100-AT75D	L9.100-125-AT92D	L9.100-150-AT92D	L9.100200-AT125D	L9.100250-AT140D	L9.100300-AT160D
L9.101	L9.101-100-AT75D	L9.101-125-AT92D	L9.101-150-AT92D	L9.101200-AT125D	L9.101250-AT140D	L9.101300-AT160D
L9.102	L9.102-100-AT75D	L9.102-125-AT92D	L9.102-150-AT92D	L9.102200-AT125D	L9.102250-AT140D	L9.102300-AT160D
L9.120	L9.120-100-AT75D	L9.120-125-AT92D	L9.120-150-AT92D	L9.120200-AT125D	L9.120250-AT140D	L9.120300-AT160D
L9.121	L9.121-100-AT75D	L9.121-125-AT92D	L9.121-150-AT92D	L9.121200-AT125D	L9.121250-AT140D	L9.121300-AT160D
L9.122	L9.122-100-AT75D	L9.122-125-AT92D	L9.122-150-AT92D	L9.122200-AT125D	L9.122250-AT140D	L9.122300-AT160D
L9.128	L9.128-100-AT75D	L9.128-125-AT92D	L9.128-150-AT92D	L9.128200-AT125D	L9.128250-AT140D	L9.128300-AT160D
L9.170	L9.170-100-AT75D	L9.170-125-AT92D	L9.170-150-AT92D	L9.170200-AT125D	L9.170250-AT140D	L9.170300-AT160D
L9.171	L9.171-100-AT75D	L9.171-125-AT92D	L9.171-150-AT92D	L9.171200-AT125D	L9.171250-AT140D	L9.171300-AT160D
L9.172	L9.172-100-AT75D	L9.172-125-AT92D	L9.172-150-AT92D	L9.172200-AT125D	L9.172250-AT140D	L9.172300-AT160D



ART.L9 Valvola a farfalla Lug con attuatore AT Semplice Effetto

Lug Butterfly with AT actuator S.E

10 Spring Single Acting

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	AT52SX	AT52SX	AT63SX	AT75SX	AT83SX	AT92SX
L9.100	L9.100-25-AT52SX	L9.100-32-AT52SX	L9.100-40-AT63SX	L9.100-50-AT75SX	L9.100-65-AT83SX	L9.100-80-AT92SX
L9.101	L9.101-25-AT52SX	L9.101-32-AT52SX	L9.101-40-AT63SX	L9.101-50-AT75SX	L9.101-65-AT83SX	L9.101-80-AT92SX
L9.102			L9.102-40-AT63SX	L9.102-50-AT75SX	L9.102-65-AT83SX	L9.102-80-AT92SX
L9.120	L9.120-25-AT52SX	L9.120-32-AT52SX	L9.120-40-AT63SX	L9.120-50-AT75SX	L9.120-65-AT83SX	L9.120-80-AT92SX
L9.121	L9.121-25-AT52SX	L9.121-32-AT52SX	L9.121-40-AT63SX	L9.121-50-AT75SX	L9.121-65-AT83SX	L9.121-80-AT92SX
L9.122			L9.122-40-AT63SX	L9.122-50-AT75SX	L9.122-65-AT83SX	L9.122-80-AT92SX
L9.128			L9.128-40-AT63SX	L9.128-50-AT75SX	L9.128-65-AT83SX	L9.128-80-AT92SX
L9.170			L9.170-40-AT63SX	L9.170-50-AT75SX	L9.170-65-AT83SX	L9.170-80-AT92SX
L9.171			L9.171-40-AT63SX	L9.171-50-AT75SX	L9.171-65-AT83SX	L9.171-80-AT92SX
L9.172			L9.172-40-AT63SX	L9.172-50-AT75SX	L9.172-65-AT83DX	L9.172-80-AT92SX
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	AT105SX	AT125SX	AT140SX	AT160SX	AT190SX	AT210SX
L9.100	L9.100-100-AT105SX	L9.100-125-AT125SX	L9.100-150-AT140SX	L9.100200-AT160SX	L9.100250-AT190SX	L9.100300-AT210SX
L9.101	L9.101-100-AT105SX	L9.101-125-AT125SX	L9.101-150-AT140SX	L9.101200-AT160SX	L9.101250-AT190SX	L9.101300-AT210SX
L9.102	L9.102-100-AT105SX	L9.102-125-AT125SX	L9.102-150-AT140SX	L9.102200-AT160SX	L9.102250-AT190SX	L9.102300-AT210SX
L9.120	L9.120-100-AT105SX	L9.120-125-AT125SX	L9.120-150-AT140SX	L9.120200-AT160SX	L9.120250-AT190SX	L9.120300-AT210SX
L9.121	L9.121-100-AT105SX	L9.121-125-AT125SX	L9.121-150-AT140SX	L9.121200-AT160SX	L9.121250-AT190SX	L9.121300-AT210SX
L9.122	L9.122-100-AT105SX	L9.122-125-AT125SX	L9.122-150-AT140SX	L9.122200-AT160SX	L9.122250-AT190SX	L9.122300-AT210SX
L9.128	L9.128-100-AT105SX	L9.128-125-AT125SX	L9.128-150-AT140SX	L9.128200-AT160SX	L9.128250-AT190SX	L9.128300-AT210SX
L9.170	L9.170-100-AT105SX	L9.170-125-AT125SX	L9.170-150-AT140SX	L9.170200-AT160SX	L9.170250-AT190SX	L9.170300-AT210SX
L9.171	L9.171-100-AT105SX	L9.171-125-AT125SX	L9.171-150-AT140SX	L9.171200-AT160SX	L9.171250-AT190SX	L9.171300-AT210SX
L9.172	L9.172-100-AT105SX	L9.172-125-AT125SX	L9.172-150-AT140SX	L9.172200-AT160SX	L9.172250-AT190SX	L9.172300-AT210SX



ART. L9 Valvola a farfalla Lug con attuatore J4C Elettrico

Lug Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	25	32	40	50	65	80
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S20	S35	S55
L9.100	L9.100-25-S20	L9.100-32-S20	L9.100-40-S20	L9.100-50-S20	L9.100-65-S35	L9.100-80-S55
L9.101	L9.101-25-S20	L9.101-32-S20	L9.101-40-S20	L9.101-50-S20	L9.101-65-S35	L9.101-80-S55
L9.102			L9.102-40-S20	L9.102-50-S20	L9.102-65-S35	L9.102-80-S55
L9.120	L9.120-25-S20	L9.120-32-S20	L9.120-40-S20	L9.120-50-S20	L9.120-65-S35	L9.120-80-S55
L9.121	L9.121-25-S20	L9.121-32-S20	L9.121-40-S20	L9.121-50-S20	L9.121-65-S35	L9.121-80-S55
L9.122			L9.122-40-S20	L9.122-50-S20	L9.122-65-S35	L9.122-80-S55
L9.128			L9.128-40-S20	L9.128-50-S20	L9.128-65-S35	L9.128-80-S55
L9.170			L9.170-40-S20	L9.170-50-S20	L9.170-65-S35	L9.170-80-S55
L9.171			L9.171-40-S20	L9.171-50-S20	L9.171-65-S35	L9.171-80-S55
L9.172			L9.172-40-S20	L9.172-50-S20	L9.172-65-S35	L9.172-80-S55
SIZE	100	125	150	200	250	300
PN	16	16	16	16-10	16-10	16-10
ATT.	S85	S140	S140	S300		
L9.100	L9.100-100-S85	L9.100-125-S140	L9.100-150-S140	L9.100-200-S300	RIC.	
L9.101	L9.101-100-S85	L9.101-125-S140	L9.101-150-S140	L9.101-200-S300		
L9.102	L9.102-100-S85	L9.102-125-S140	L9.102-150-S140	L9.102-200-S300		
L9.120	L9.120-100-S85	L9.120-125-S140	L9.120-150-S140	L9.120-200-S300		
L9.121	L9.121-100-S85	L9.121-125-S140	L9.121-150-S140	L9.121-200-S300		
L9.122	L9.122-100-S85	L9.122-125-S140	L9.122-150-S140	L9.122-200-S300		
L9.128	L9.128-100-S85	L9.128-125-S140	L9.128-150-S140	L9.128-200-S300		
L9.170	L9.170-100-S85	L9.170-125-S140	L9.170-150-S140	L9.170-200-S300		
L9.171	L9.171-100-S85	L9.171-125-S140	L9.171-150-S140	L9.171-200-S300		
L9.172	L9.172-100-S85	L9.172-125-S140	L9.172-150-S140	L9.172-200-S300		



RIDUTTORE MANUALE

ARTICOLO	RM0250	RM0750	RM1200
DN	25-150	200	250-400
	F5/F7	F10	F12
	☒ 17	☒ 22	☒ 27

ON DEMAND

DECLUTCHABLE GEAR BOXEX GD ADE





Specifications

(SIZE RANGE) 180NM-3000NM
(BODY MATERIALS) DUCTILE IRON

ARTICOLO	GD.ADEO18	GD.ADE030	GD.ADE120
DN	25-150	200	250-400
LATO VALVOLA	F05/F07	F07/F10	F10/F14
LATO ATTUATORE	F05/F07	F07/F10	F12/F14
	☒ 14	☒ 17	☒ 27

7/1 - BUTTERFLY VALVES SEAL PTFE

CAST IRON WAFER BUTTERFLY VALVE J9

DM 174



L9.123 LUG- GHISA-INOX-PTFE LUG DUCTIL IRON -DISC INOX -SEAL PTFE

J9.123 WAFER- GHISA – INOX-PTFE WAFER DUCTIL IRON -DISC INOX-SEAL PTFE

J9.623 WAFER-INOX-PTFE WAFER BODY INOX- DISC INOX - PTFE

Temp -10 +120C

DAL DN 125 AL DN 300 COMPLETE DI RIDUTTORE RM
FROM DN 125 TO DN 300 WITH GEAR BOX

BUTTERFLY LUG

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
L9.123	L9.123-40	L9.123-50	L9.123-65	L9.123-80	L9.123-100	L9.123-125
SIZE	150	200	250	300		
PN	16	16	16	16		
L9.123	L9.123-150	L9.123-200	L9.123-250	L9.123-300		

BUTTERFLY WAFER

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
J9.123	J9.123-40	J9.123-50	J9.123-65	J9.123-80	J9.123-100	J9.123-125
J9.623	J9.623-40	J9.623-50	J9.623-65	J9.623-80	J9.623-100	
SIZE	150	200	250	300		
PN	16	16	16	16		
J9.123	J9.123-150	J9.123-200	J9.123-250	J9.123-300		



ART. L9.123

LUG GHISA-INOX-PTFE
J9.123 WAFER GHISA-INOX-PTFE
J9.623 WAFER INOX-INOX-PTFE

Valvola a farfalla con attuatore AT Doppio Effetto

Butterfly with AT actuator D.E

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	AT52DX	AT63DX	AT63DX	AT75DX	AT83DX	AT92DX
J9.123	J9.123-40-AT52D	J9.123-50-AT63D	J9.123-65-AT63D	J9.123-80-AT75D	J9.123-100-AT83D	J9.123-125-AT92D
J9.623	J9.623-40-AT52D	J9.623-50-AT63D	J9.623-65-AT63D	J9.623-80-AT75D	J9.623-100-AT83D	
L9.123	L9.123-40-AT52D	L9.123-50-AT63D	L9.123-65-AT63D	L9.123-80-AT75D	L9.123-100-AT83D	L9.123-125-AT92D
SIZE	150	200	250			
PN	16	16-10	16-10			
ATT.	AT125DX	AT125DX	AT140DX			
J9.123	J9.123150-AT125D	J9.123200-AT125D	J9.123250-AT140D			
L9.123	L9.123150-AT125D	L9.123200-AT125D	L9.123250-AT140D			



ART. L9.123

LUG GHISA-INOX-PTFE
J9.123 WAFER GHISA-INOX-PTFE
J9.623 WAFER INOX-INOX-PTFE

Valvola a farfalla con attuatore AT Semplice Effetto

Butterfly with AT actuator S.E

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	AT83SX	AT83SX	AT83SX	AT92SX	AT105X	AT125SX
J9.123	J9.123-40-AT83S	J9.123-50-AT83S	J9.123-65-AT83S	J9.123-80-AT92S	J9.123100-AT105S	J9.123125-AT125S
J9.623	J9.623-40-AT83S	J9.623-50-AT83S	J9.623-65-AT83S	J9.623-80-AT92S	J9.623100-AT105S	
L9.123	L9.123-40-AT83S	L9.123-50-AT83S	L9.123-65-AT83S	L9.123-80-AT92S	L9.123100-AT105S	L9.123125-AT125S
SIZE	150	200	250			
PN	16					
ATT.	AT160SX					
J9.123	J9.123150-AT160S					
L9.123	L9.123150-AT160S					



ART. L9.123

LUG GHISA-INOX-PTFE
J9.123 WAFER GHISA-INOX-PTFE
J9.623 WAFER INOX-INOX-PTFE

Valvola a farfalla con attuatore J4C Elettrico

Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	S20	S35	S35	S55	S85	S140
J9.123	J9.123-40-S20	J9.123-50-S35	J9.123-65-S35	J9.123-80-S55	J9.123-100-S85	J9.123-125-S140
J9.623	J9.623-40-S20	J9.623-50-S35	J9.623-65-S35	J9.623-80-S55	J9.623-100-S85	
L9.123	L9.123-40-S20	L9.123-50-S35	L9.123-65-S35	L9.123-80-S55	L9.123-100-S85	L9.123-125-S140
SIZE	150	200				
PN	16	16-10				
ATT.	S140	S300				
J9.123	J9.123-150-S140	J9.123-200-S300				
L9.123	L9.123-150-S140	L9.123-200-S300				

CAST IRON WAFER BUTTERFLY VALVE J9.150



Specifications

(SIZE RANGE) DN40 TO DN150
(OPERATING PRESSURE) 1.0 TO 1.6MPA
(BODY MATERIALS) DUCTILE IRON,
STAINLESS STEEL PN16
(DISC MATERIALS) STAINLESS STEEL + PTFE
(SEALING MATERIALS) PTFE (TEFLON)
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) -10 +150C

DAL DN 125 AL DN 300 COMPLETE DI RIDUTTORE RM FROM DN 125 TO DN 300 WITH GEAR BOX

A LEVA - WITH LEVEL

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
J9.150	J9.150-40	J9.150-50	J9.150-65	J9.150-80	J9.150-100	J9.150-125
SIZE	150					
PN	16					
J9.123	J9.150-150					

CON RIDUTTORE- WITH GEAR BOX

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
J9.150	J9.150-40RM	J9.150-50RM	J9.150-65RM	J9.150-80RM	J9.150-100RM	J9.150-125RM
SIZE	150					
PN	16					
J9.150	J9.150-150RM					



ART. J9.150

WAFER GHISA-INOX-PTFE
WAFER DUCTIL IRON-INOX-PTFE

Valvola a farfalla con attuatore AT Doppio Effetto

Butterfly with AT actuator D.E

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	AT52DX	AT63DX	AT63DX	AT75DX	AT83DX	AT92DX
J9.150	J9.150-40-AT52D	J9.150-50-AT63D	J9.150-65-AT63D	J9.150-80-AT75D	J9.150-100-AT83D	J9.150-125-AT92D
SIZE	150					
PN	16					
ATT.	AT125DX					
J9.123	J9.150150-AT125D					



ART. J9.150 WAFER GHISA-INOX

Valvola a farfalla con attuatore AT Semplice Effetto

Butterfly with AT actuator S.E

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	AT83SX	AT83SX	AT83SX	AT92SX	AT105X	AT125SX
J9.150	J9.150-40-AT83S	J9.150-50-AT83S	J9.150-65-AT83S	J9.150-80-AT92S	J9.150100-AT105S	J9.150125-AT125S
SIZE	150	200	250			
PN	16					
ATT.	AT160SX					
J9.150	J9.150150-AT160S					



ART. J9.150 WAFER GHISA-INOX-PTFE

Valvola a farfalla Wafer con attuatore J4C Elettrico

Wafer Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
ATT.	S20	S35	S35	S55	S85	S140
J9.150	J9.150-40-S20	J9.150-50-S35	J9.150-65-S35	J9.150-80-S55	J9.150-100-S85	J9.150-125-S140
SIZE	150	200				
PN	16	16-10				
ATT.	S140	S300				
J9.150	J9.150-150-S140	J9.150-200-S300				

8 - KNIFE GATE VALVES DUCTIL IRON

BIDIRECTIONAL KNIFE GATE VALVE L13



Specifications

(SIZE RANGE) DN50 TO DN1200
(BODY MATERIALS) DUCTIL IRON GG25 PN 10
(GATE MATERIALS) INOX316
(SEALING MATERIALS) NBR
(TEMPERATURE) -30 +90C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
(OPERATING PRESSURE) 1.0 TO 1.6MPA
(SEALING MATERIALS) EPDM L13EP

(OPTIONS)
PNEUMATIC ACTUATOR AP
LIMIT SWITCH

SIZE	50	65	80	100	125	150
PN	10	10	10	10	10	10
L13	L13-50	L13-65	L13-80	L13-100	L13-125	L13-150
L13EP	L13EP-50	L13EP-65	L13EP-80	L13EP-100	L13EP-125	L13EP-150
L13-AP	L13-50-AP	L13-65-AP	L13-80-AP	L13-100-AP	L13-125-AP	L13-150-AP
L13EP-AP	L13EP-50-AP	L13EP-65-AP	L13EP-80-AP	L13EP-100-AP	L13EP-125-AP	L13EP-150-AP
SIZE	200	250	300	350	400	450
PN	10	10	6	6	6	5
L13	L13-200	L13-250	L13-300	L13-350	L13-400	L13-450
L13EP	L13EP-200	L13EP-250	L13EP-300	L13EP-350	L13EP-400	L13EP-450
L13AP	L13-200-AP	L13-250-AP	L13-300-AP	L13-350-AP	L13-400-AP	L13-450-AP
L13EP-AP	L13EP-200-AP	L13EP-250-AP	L13EP-300-AP	L13EP-350-AP	L13EP-400-AP	L13EP-450-AP

UNIDIRECIONAL KNIFE GATE VALVE L20



Specifications

(SIZE RANGE) DN50 TO DN600
(BODY MATERIALS) DUCTIL IRON GG25 PN 10
(BODY MATERIALS) INOX316 LX20
(GATE MATERIALS) AISI304
(GATE MATERIALS) INOX316 LX20I
(GATE MATERIALS) AISI316L LX20L
(SEALING MATERIALS) NBR
(SEALING MATERIALS) EPDM EP
(SEALING MATERIALS) VITON V
(TEMPERATURE) -30 +90C
(ACTING MODE) PNEUMATIC DOUBLE ACTING
(OPERATING PRESSURE) 1.0 TO 1.6MPA
(OPTIONS)
(SEALING MATERIALS) SILICONE PTFE METAL/METAL
PNEUMATIC ACTUATOR AP
LIMIT SWITCH
(GATE MATERIALS) INOX316 AISI 316L

SIZE	50	65	80	100	125	150
PN	10	10	10	10	10	10
L20	L20-50	L20-65	L20-80	L20-100	L20-125	L20-150
L20EP	L20EP-50	L20EP-65	L20EP-80	L20EP-100	L20EP-125	L20EP-150
L20-AP	L20-50-AP	L20-65-AP	L20-80-AP	L20-100-AP	L20-125-AP	L20-150-AP
L20EP-AP	L20EP-50-AP	L20EP-65-AP	L20EP-80-AP	L20EP-100-AP	L20EP-125-AP	L20EP-150-AP
SIZE	200	250	300	350	400	450
PN	10	10	6	6	6	5
L20	L20-200	L20-250	L20-300	L20-350	L20-400	L20-450
L20EP	L20EP-200	L20EP-250	L20EP-300	L20EP-350	L20EP-400	L20EP-450
L20AP	L20-200-AP	L20-250-AP	L20-300-AP	L20-350-AP	L20-400-AP	L20-450-AP
L20EP-AP	L20EP-200-AP	L20EP-250-AP	L20EP-300-AP	L20EP-350-AP	L20EP-400-AP	L20EP-450-AP

FOR OTHER SOLUTION PLEASE CALL

UNIDIRECTIONAL KNIFE GATE VALVE SERIE 19E.101



Specifications

(SIZE RANGE) DN50 TO DN600,
(BODY MATERIALS) DUCTIL IRON PN 10/16
DN 200 >PN10
(GATE MATERIALS) INOX316
(SEALING MATERIALS) NBR
(TEMPERATURE) -30 +80C
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
(OPERATING PRESSURE)1.0 TO 1.6MPA
(OPTIONS)
PNEUMATIC ACTUATOR AP

SIZE	50	65	80	100	125	150
PN	10	10	10	10	10	10
19E.101	19E.101-50	19E.101-65	19E.101-80	19E.101-100	19E.101-125	19E.101-150
19E.101-AP	19E.101-50-AP	19E.101-65-AP	19E.101-80-AP	19E.101-100-AP	19E.101-125-AP	19E.101-150-AP
SIZE	200	250	300	350	400	450
PN	10	10	6	6	6	5
19E.101	19E.101-200	19E.101-250	19E.101-300	19E.101-350	19E.101-400	19E.101-450
19E.101AP	19E.101-200-AP	19E.101-250-AP	19E.101-300-AP	19E.101-350-AP	19E.101-400-AP	19E.101-450-AP

UNIDIRECTIONAL KNIFE GATE VALVE SERIE 19E.109



Specifications

(SIZE RANGE) DN50 TO DN600,
(BODY MATERIALS) DUCTIL IRON PN 16
(GATE MATERIALS) INOX316
(SEALING MATERIALS) EPDM
(TEMPERATURE) -30 +90C
(ACTING MOD) EPNEUMATIC DOUBLE ACTING,
(OPERATING PRESSURE)1.0 TO 1.6MPA
(OPTIONS)
PNEUMATIC ACTUATOR AP

SIZE	50	65	80	100	125	150
PN	10	10	10	10	10	10
19E.109	19E.109-50	19E.109-65	19E.109-80	19E.109-100	19E.109-125	19E.109-150
19E.109-AP	19E.109-50-AP	19E.109-65-AP	19E.109-80-AP	19E.109-100-AP	19E.109-125-AP	19E.109-150-AP
SIZE	200	250	300	350	400	450
PN	10	10	6	6	6	5
19E.109	19E.109-200	19E.109-250	19E.109-300	19E.109-350	19E.109-400	19E.109-450
19E.109AP	19E.109-200-AP	19E.109-250-AP	19E.109-300-AP	19E.109-350-AP	19E.109-400-AP	19E.109-450-AP

PLASTIC 2 WAY BALL VALVE-CP120I



Specifications

(SIZE RANGE) DN20 TO DN63
(OPERATING PRESSURE)1.0MPA
(BODY MATERIALS) PVC-U GAS OR PLAIN ENDS
(DISC MATERIALS) PVC-U
(SEALING MATERIALS) EPDM – FPM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) 0 +60C
(OPTIONS) PVC – C PVDF SOCKET WELDING

ART. CP120I Valvola a sfera INCOLLAGGIO – BONDING Ball valves

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
KIT MONT.	MM00200	MM00202	MM00203	MM00205	MM00206	MM00207
CODICE	CP120I-20	CP120I-25	CP120I-32	CP120I-40	CP120I-50	CP120O-63



ART. CP120I Valvola a sfera con attuatore UT Doppio Effetto

Ball valves with UT actuator D.E

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTUATORE	UT10	UT10	UT13	UT13	UT18	UT18
CODICE	CP120I-20-UT10	CP120I-25-UT10	CP120I-32-UT13	CP120I-40-UT13	CP120I-50-UT18	CP1201-63-UT18



ART. CP120I

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT32DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
COD.	CP120I-20-AT32DX	CP120I-25-AT40DX	CP120I-32-AT40DX	CP120I-40-AT52DX	CP120I-50-AT63DX	CP120I-63-AT63DX



ART. CP120I

Valvola a sfera con attuatore UT a Semplice Effetto
Ball valves with UT actuator S.E

SIZE	20	25	32	40	50
DN	15	20	25	32	40
PN	16	16	16	16	16
ATTUATORE	UT13S4	UT13S4	UT18S4	UT18S4	UT18S4
CODICE	CP120I-20-UT13S4	CP120I-25-UT13S4	CP120I-32-UT18S4	CP120I-40-UT18S4	CP120I-50-UT18S4



ART. CP120I

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
COD.	CP120I-20-AT63SX	CP120I-25-AT63SX	CP120I-32-T63SX	CP120I-40-AT75SX	CP120I-50-AT75SX	CP120I-63-83SX



ART.CP120I **Valvola a sfera con attuatore Elettrico J4C**
Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S35	S35	S35
COD.	CP120I-20-S20	CP120I-25-S20	CP120I-32-S20	CP120I-40-S35	CP120I-50-S35	CP120I-63-S35

PLASTIC 2 WAY BALL VALVE - CP120F



Specifications

(SIZE RANGE) DN15 TO DN50, 1/2" TO 2" GAS
(OPERATING PRESSURE)1.0MPA
(BODY MATERIALS) PVC-U GAS OR PLAIN ENDS
(DISC MATERIALS) PVC-U
(SEALING MATERIALS) EPDM – FPM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) 0 +60C
(OPTIONS) PVC – C PVDF SOCKET WELDING

ART. CP120F **Valvola a sfera FILETTATA – Ball valves THREADED**

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
KIT MONT.	MM00200	MM00202	MM00203	MM00205	MM00206	MM00207
CODICE	CP120F-15	CP120F-20	CP120F-25	CP120F-32	CP120F-40	CP120O-50



ART. CP120F

Valvola a sfera con attuatore UT Doppio Effetto

Ball valves with UT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTUATORE	UT10	UT10	UT13	UT13	UT18	UT18
CODICE	CP120F-15-UT10	CP120F-20-UT10	CP120F-25-UT13	CP120F-32-UT13	CP120F-40-UT18	CP120F-50-UT18



ART. CP120F

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT32DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
COD.	CP120F-15-AT32DX	CP120F-20-AT40DX	CP120F-25-AT40DX	CP120F-32-AT52DX	CP120F-40-AT63DX	CP120F-50-AT63DX



ART. CP120F

Valvola a sfera con attuatore UT Semplice Effetto

Ball valves with UT actuator S.E

SIZE	1/2	3/4	1	1 1/4	1 1/2
DN	15	20	25	32	40
PN	16	16	16	16	16
ATTUATORE	UT13S4	UT13S4	UT13S4	UT18S4	UT18S4
CODICE	CP120F-15-UT13S4	CP120F-20-UT13S4	CP120F-25-UT13S4	CP120F-32-UT18S4	CP120F-40-UT18S4



ART. CP120F Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
COD.	CP120F-15-AT63SX	CP120F-20-AT63SX	CP120F-25-AT63SX	CP120F-32-AT75SX	CP120F-40-AT75SX	CP120F-50-AT83SX



ART. CP120F Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4CElectric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

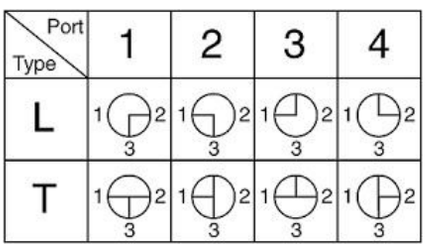
SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S20	S35	S35
COD.	CP120F-15-S20	CP120F-20-S20	CP120F-25-S20	CP120F-32-S20	CP120F-40-S35	CP120F-50-S35

PLASTIC 3 WAY BALL VALVE CP131LI - CP131TI



Specifications

- (SIZE RANGE) DN20 TO DN63
- (OPERATING PRESSURE) 1.0MPA
- (BODY MATERIALS) PVC-U GAS OR PLAIN ENDS
- (DISC MATERIALS) PVC-U
- (SEALING MATERIALS) EPDM - FPM
- (STRUCTURE) 3 WAY T PORT, L PORT ARE AVAILABLE
- (ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
- (TEMPERATURE) 0 +60C
- (OPTIONS) PVC – C - PVDF SOCKET WELDING



CP131LI

CP131TI

ART. CP131I Valvola a sfera INCOLLAGGIO – BONDING Ball valves

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
KIT MONT.	MM00200	MM00202	MM00203	MM00205	MM00206	MM00207
131L	CP131LI-20	CP131LI-25	CP131LI-32	CP131LI-40	CP131LI-50	CP131LI-63
131T	CP131TI-20	CP131TI-25	CP131TI-32	CP131TI-40	CP131TI-50	CP131TI-63



ART. CP131I Valvola a sfera con attuatore UT Doppio Effetto

Ball valves with UT actuator D.E

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTUATORE	UT10	UT10	UT13	UT13	UT13	UT18
131L	CP131LI-20-UT10	CP131LI-25-UT10	CP131LI-32-UT13	CP131LI-40-UT13	CP131LI-50-UT13	CP131LI-63-UT18
131T	CP131TI-20-UT10	CP131TI-25-UT10	CP131TI-32-UT13	CP131TI-40-UT13	CP131TI-50-UT13	CP131LI-63-UT18



ART. CP131I

Valvola a sfera con attuatore AT Doppio Effetto

Ball valves with AT actuator D.E

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT32DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
131L	CP131LI-20-AT32D	CP131LI-25-AT40D	CP131LI-32-AT40D	CP131LI-40-AT52D	CP131LI-50-AT63D	CP131LI-63-AT63D
131T	CP131TI-20-AT32D	CP131TI-25-AT40D	CP131TI-32-AT40D	CP131TI-40-AT52D	CP131TI-50-AT63D	CP131TI-63-AT63D



ART.CP131I

Valvola a sfera con attuatore UT Semplice Effetto

Ball valves with UT actuator S.E

SIZE	20	25	32	40	50
DN	15	20	25	32	40
PN	16	16	16	16	16
ATTUATORE	UT13S4	UT13S4	UT18S4	UT18S4	UT18S4
131L	CP131LI20-UT13S4	CP131LI25-UT13S4	CP131LI32-UT18S4	CP131LI40-UT18S4	CP131LI50-UT18S4
131T	CP131TI20-UT13S4	CP131TI25-UT13S4	CP131TI32-UT18S4	CP131TI40-UT18S4	CP131LI50-UT18S4



ART. CP131I

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
131L	CP131LI20-AT63SX	CP131LI25-AT63SX	CP131LI32-AT63SX	CP131LI40-T75SX	CP131LI50-T75SX	CP131LI63-T83SX
131T	CP131TI20-AT63SX	CP131TI25-AT63SX	CP131TI32-AT63SX	CP131TI40-T75SX	CP131TI50-T75SX	CP131TI63-T83SX

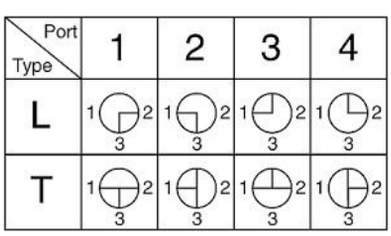


ART.CP131I Valvola a sfera con attuatore J4C Elettrico
Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	20	25	32	40	50	63
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S35	S35	S55
131L	CP131LI-20-S20	CP131LI-25-S20	CP131LI-32-S20	CP131LI-40-S35	CP131LI-50-S35	CP131LI-63-S55
131T	CP131TI-20-S20	CP131TI-25-S20	CP131TI-32-S20	CP131TI-40-S35	CP131TI-50-S35	CP131TI-63-S55





PLASTIC 3 WAY BALL VALVE CP131LF - CP131TF

Specifications

- (SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
- (OPERATING PRESSURE) 1.0MPA
- (BODY MATERIALS) PVC-U GAS OR PLAIN ENDS
- (DISC MATERIALS) PVC-U
- (SEALING MATERIALS) EPDM - FPM
- (STRUCTURE) 3 WAY T PORT, L PORT ARE AVAILABLE
- (ACTING MODE) PNEUMATIC DOUBLE ACTING, SINGLE ACTING AND ELECTRIC ACTUATOR
- (TEMPERATURE) 0 +60C
- (OPTIONS) PVC – C - PVDF SOCKET WELDING

ART. CP131F Valvola a sfera FILETTATA Ball valves THREADED

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
KIT MONT.	MM00200	MM00202	MM00203	MM00205	MM00206	MM00207
131L	CP131LF-15	CP131LF-20	CP131LF-25	CP131LF-32	CP131LF-40	CP131LF- 50
131T	CP131TF-15	CP131TF-20	CP131TF-25	CP131TF-32	CP131TF-40	CP131TF- 50



ART. CP131F

Valvola a sfera con attuatore UT Doppio Effetto

Ball valves with UT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATTUATORE	UT10	UT10	UT13	UT13	UT18	UT18
131L	CP131LF-15-UT10	CP131LF-20-UT10	CP131LF-25-UT13	CP131LF-32-UT13	CP131LF-40-UT18	CP131LF-50-UT18
131T	CP131TF-15-UT10	CP131TF-20-UT10	CP131TF-25-UT13	CP131TF-32-UT13	CP131TF-40-UT18	CP131TF-50-UT18



ART. CP131F

Valvola a sfera con attuatore a doppio effetto

Ball valves with AT actuator D.E

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT32DX	AT40DX	AT40DX	AT52DX	AT63DX	AT63DX
131L	CP131LF-15-AT32D	CP131LF-20-AT40D	CP131LF-25-AT40D	CP131LF-32-AT52D	CP131LF-40-AT63D	CP131LF-50-AT63D
131T	CP131TF-15-AT32D	CP131TF-20-AT40D	CP131TF-25-AT40D	CP131TF-32-AT52D	CP131TF-40-AT63D	CP131TF-50-AT63D



ART. CP131F

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

SIZE	1/2	3/4	1	1 1/4	1 1/2
DN	15	20	25	32	40
PN	16	16	16	16	16
ATTUATORE	UT13S4	UT13S4	UT18S4	UT18S4	UT18S4
131L	CP131LF15-UT13S4	CP131LF20-UT13S4	CP131LF25-UT18S4	CP131LF32-UT18S4	CP131LF40-UT18S4
131T	CP131TF15-UT13S4	CP131TF20-UT13S4	CP131TF25-UT18S4	CP131TF32-UT18S4	CP131TF40-UT18S4



ART. CP131F

Valvola a sfera con attuatore AT Semplice Effetto

Ball valves with AT actuator S.E

10 Spring Single Acting

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT63SX	AT75SX	AT75SX	AT83SX
131L	CP131LF15-AT63SX	CP131LF20-AT63SX	CP131LF25-AT63SX	CP131LF32-AT75SX	CP131LF40-AT75SX	CP131LF50-AT83SX
131T	CP131TF15-AT63SX	CP131TF20-AT63SX	CP131TF25-AT63SX	CP131TF32-AT75SX	CP131TF40-AT75SX	CP131TF50-AT83SX



ART. CP131F

Valvola a sfera con attuatore J4C Elettrico

Ball valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
PN	16	16	16	16	16	16
ATT.	S20	S20	S20	S35	S35	S55
131L	CP131LF-15-S20	CP131LF-20-S20	CP131LF-25-S20	CP131LF-32-S35	CP131LF-40-S35	CP131LF-50-S55
131T	CP131TF-15-S20	CP131TF-20-S20	CP131TF-25-S20	CP131TF-32-S35	CP131TF-40-S35	CP131TF-50-S55

PLASTIC PNEUMATIC BUTTERFLY VALVE FT



Specifications

(SIZE RANGE) DN40 TO DN200,
(OPERATING PRESSURE) 1.0MPA
(BODY MATERIALS) PVC-U WAFER TYPE
(DISC MATERIALS) PVC-U
(SEALING MATERIALS) EPDM – FPM
(ACTING MODE) PNEUMATIC DOUBLE ACTING,
SINGLE ACTING AND
ELECTRIC ACTUATOR
(TEMPERATURE) 0 +60C
(OPTIONS) PVDF

SIZE	40/50	50/65	65/75	80-90	100/110	125/140
PN	10	10	10	10	10	10
COD.	FT40	FT50	FT65	FT80	FT100	FT125
SIZE	150/160	200/225				
PN	10	10				
COD.	FT150	FT200				



ART.FT **Valvola a farfalla con attuatore UT Doppio Effetto**

Butterfly with UT actuator D.E

SIZE	40/50	50/65	65/75	80-90	100/110
PN	10	10	10	10	16
ATT.	UT13	UT13	UT13	UT18	UT18
COD.	FT40-UT13	FT50-UT13	FT65-UT13	FT80-UT18	FT100-UT18



ART. FT **Valvola a farfalla con attuatore UT Semplice Effetto**

Butterfly valves with UT actuator S.E

SIZE	40/50	50/65	65/75	80-90
PN	10	10	10	10
ATT.	UT13S4	UT18S4	UT18S4	UT18S4
COD.	FT40-UT13S4	FT50-UT18S4	FT65-UT18S4	FT80-UT18S4



ART.FT Valvola a farfalle con attuatore AT Doppio Effetto

Butterfly with AT actuator D.E

SIZE	40/50	50/65	65/75	80-90	100/110	125/140
PN	16	16	16	16	16	10
ATT.	AT40DX	AT52DX	AT63DX	AT63DX	AT75DX	AT83DX
COD.	FT40-AT40DX	FT50-AT52DX	FT65-AT63DX	FT80-AT63DX	FT100-AT75DX	FT 125- AT83DX
SIZE	150/160	200/225				
PN	16	16				
ATT.	AT92DX	AT105DX				
COD.	FT150-AT92DX	FT200-AT105DX				



ART.FT Valvola a Farfalla con attuatore AT Semplice Effetto

Butterfly with AT actuator S.E

10 Spring Single Acting

SIZE	40/50	50/65	65/75	80-90	100/110	125/140
PN	16	16	16	16	16	16
ATT.	AT63SX	AT63SX	AT75SX	AT83SX	AT92SX	AT105SX
COD.	FT40-AT63S	FT50-AT63S	FT65-AT75S	FT80	FT100-AT92S	FT125-AT105S
SIZE	150/160	200/225				
PN	16	16				
ATT.	AT125SX	AT140SX				
COD.	FT150-AT125S	FT200-AT140S				



ART. FT Valvola a farfalla con attuatore J4C Elettrico

Butterfly valves with J4C Electric actuator

FOR THE OPTIONS SEE THE ACTUATOR DATA SHEET
PER LE OPZIONI CONSULTARE LA SCHEDA DEL MOTORE

SIZE	40/50	50/65	65/75	80-90	100/110	125/140
PN	16	16	16	16	16	16
ATT.	S20	S20	S35	S35	S55	S85
COD.	FT40-S20	FT50-S20	FT65-S35	FT80-S35	FT100-S55	FT125-S85
SIZE	150/160	200/225				
PN	16	16				
ATT.	S140	S300				
COD.	FT150-S140	FT200-S300				

10 - BOX- LIMIT SWITCH - POSITIONER NAMUR SOLENOID VALVES - PNEUMATIC VALVES

LIMIT SWITCH BOX APL - 210N



Specifications

(MODEL) APL-210N 2 MECHANICAL SWITCHES
IP66/IP67 DIN EN60529
(BODY MATERIALS) ALUMINIUM

LIMIT SWITCH BOX BE45 - BS45 - BX45 - BE48





Specifications

(MODEL) BE45-220M03 2 SILVER PLATED SPDT 250 VAC-30VDC
BS45-220MA3 2 INDUCTIVE PROXIMITY NC 2 WIRES

ATEX II 3D
BE45-220M03X 2 SILVER PLATED SPDT 250 VAC-30VDC

ATEX EEXIA IIB/IIC T6
BX45-220MS3 2 SILVER PLATED SPDT 250 VAC-30VDC
BX45-220MA3 2 INDUCTIVE PROXIMITY NC 2 WIRES

ATEX EEXD IIC T6
BE48-220M03 2 SILVER PLATED SPDT 250 VAC-30VDC
BS48-220MA3 2 INDUCTIVE PROXIMITY NC 2 WIRES
BS48-220MB3 2 INDUCTIVE PROXIMITY NO PNP 3 WIRES

(BODY MATERIALS) ALUMINIUM
(OPTIONS) MORE PROXIMITY
IP2M01-KIT BLU EXTENSION AP
PROLUNGHE MONTAGGIO AP

LIMIT SWITCH BOX IP2M01 - IP2I01



Specifications

(MODEL) IP2M01 2 MECHANICAL SWITCHES IP66/IP67 DIN EN60529
IP2I01 2 INDUCTIVE PROXIMITY SWITCHES IP66/IP67 DIN EN60529

(BODY MATERIALS)PA66
(OPTION) MORE CONNECTIONS

LIMIT SWITCH BOX EPP2M01



Specifications

(MODEL) EP2M01 2 MECHANICAL SWITCHES IP66/IP67 DIN EN60529
(MODEL) EP2I01 2 INDUCTIVE PROXIMITY SWITCHES IP66/IP67 DIN EN60529
(MODEL) EP2R01-614 2 MAGNETIC REED SENSORS IP66/IP67 DIN EN60529
(BODY MATERIALS) PA66 (AVAILABLE ALUMINIUM)
(CONNECTIONS) : 2X M20X1,5
(OPTIONS) VISUAL INDICATORS-MORE CONNECTIONS- BRACKET AISI 304

LIMIT SWITCH BOX IV2M01 - G - IA



Specifications

(MODEL) IV2M01-G-IA 2 MECHANICAL SWITCHES IP66/IP67 DIN EN60529
(BODY MATERIALS) VESTAMID / POLYCARBONATE COVER
(ATEX) II GD EX IA - ZONE 1 - 21
(OPTIONS) MORE CONNECTIONS

LIMIT SWITCH BOX IV2I01 - IA



Specifications

(MODEL) IV2I01 2 INDUCTIVE PROXIMITY SWITCHES IP66/IP67 DIN EN60529
(BODY MATERIALS) VESTAMID / POLYCARBONATE COVER
(ATEX) II GD EX IA - ZONE 1 - 21
(OPTIONS) MORE CONNECTIONS

LIMIT SWITCH BOX EVE201 - IA - 3D



Specifications

(MODEL) EVE2I01-IA-3D 2 INDUCTIVE PROXIMITY SWITCHES IP66/IP67 DIN EN60529
(BODY MATERIALS)PA66 (AVAILABLE ALUMINIUM)
(CONNECTIONS): 2X M20X1,5
(BRACKET MATERIALS) AISI 304
(ATEX) II GD EX IA - ZONE 1 - 21
(OPTIONS) MORE CONNECTIONS

LIMIT SWITCH BOX EVE2M01 - 551 - ED - 3D



Specifications

(MODEL) EVE2M01-551-ED -3D 2 MECHANICAL SWITCHES IP66/IP67 DIN EN60529
(BODY MATERIALS) VESTAMID / POLYCARBONATE (AVAILABLE ALUMINIUM)
(CONNECTIONS) : 2X M20X1,5
(BRACKET MATERIALS) AISI 304
(ATEX) II GD EX E / EX T - ZONE 1 - 21
(OPTIONS) MORE CONNECTIONS

LIMIT SWITCH BOX DA2M01 - D



Specifications

(MODEL) DA2M01-D 2 MECHANICAL SWITCHES IP66/IP67 DIN EN60529
(BODY MATERIALS) ALUMINIUM COPPER FREE
(CONNECTIONS): 3X M20X1,5
(BRACKET MATERIALS) AISI 304
(ATEX) II GD EX D EX T– ZONE 1 - 21

LIMIT SWITCH BOX NEK2M01 - 551 - ED



Specifications

(MODEL) NEK2M01-551-ED 2 MECHANICAL SWITCHES
IP65/IP66 DIN EN60529
(BODY MATERIALS) AISI 316 TI
(CONNECTIONS) 2X M20X1,5
(BRACKET MATERIALS)AISI 316 TI
(ATEX) II GD EX E / EX T - ZONE 1 - 21
(OPTIONS) MORE CONNECTIONS

KIT SWITCH BOX MSH



MSH0503-M5 **KIT F03-M5**
MSH0505-M5 **KIT F05-M5**
MSH0507-M5 **KIT F07-M5**
MSH0510-M5 **KIT F10-M5**

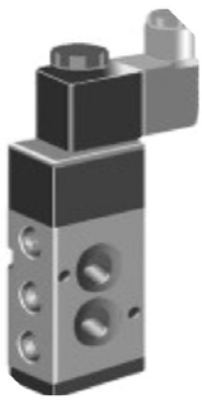
KIT INDUCTIVE SWITCH





ACTUATOR	**AT40**	**KIT-40-MICRO**
	AT52	**KIT-52-MICRO**
	AT63	**KIT-63-MICRO**

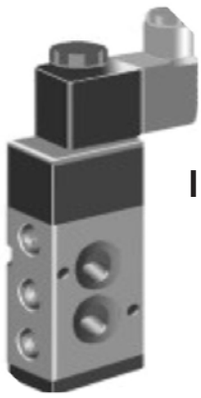
5/2 WAY SOLENOID NAMUR 4M310 - 08 4M320 - 08



Specifications

(MODEL) 4M310-08 MONOSTABLE 4M320-08 BISTABLE
(OPERATING PRESSURE) 2 TO 10 BAR
(AIR FLOW) 950L /MIN
(AIR SUPPLY PORT) G 1/4"
(NUMBER OF WAYS) 3/2-5/2
(BODY MATERIALS) ALLUMINIUM
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +50C
(VOLTAGE) DC:12V-24V-48V AC: 24V-48V- 115V-230V IP65

5/2 WAY SOLENOID NAMUR 4M310 - 08X - 4M320 - 08X



INOX

Specifications

(MODEL) 4M310-08X MONOSTABLE 4M320-08X BISTABLE
(OPERATING PRESSURE) 2 TO 10 BAR
(AIR FLOW) 950L /MIN
(AIR SUPPLY PORT) G 1/4"
(NUMBER OF WAYS) 3/2-5/2
(BODY MATERIALS) INOX 316,
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +50C
(VOLTAGE) DC:12V-24V-48V AC: 24V-48V- 115V-230V IP65

5/2 WAY SOLENOID NAMUR MULTIFUNCTION



Specifications

(MODEL) 01.202.3 MONOSTABLE 01.204.3 BISTABLE
(PRESSURE) 2 TO 10 BAR
(AIR FLOW) 950L /MIN
(AIR SUPPLY PORT) G 1/4"
(NUMBER OF WAYS) 5/2 2/2NC/NA 3/2NC/NA
(BODY MATERIALS) ALLUMINIUM
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +50C
(VOLTAGE) DC:12V-24V-48V AC: 24V-48V- 115V-230V IP65

WITH MAGNETIC SENSOR

5/2 WAY SOLENOID VALVE NAMUR 582MEX - 582EEX



Specifications

(MODEL) 582MEX MONOSTABLE 582 EEX BISTABLE
(OPERATING PRESSURE) 2 TO 8 BAR
(AIR FLOW) 950L /MIN
(AIR SUPPLY PORT) G 1/4"
(NUMBER OF WAYS) 3/2-5/2
(BODY MATERIALS) ALLUMINIUM
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +50C
(VOLTAGE)DC:24V
(ATEX) II 2G Ex h IIC T6 Gb

II3G EX NA IIC TX GC/ II 3D EX TC IIIC TX°C DC



Model	Tension	Power
AZ00.470.0X	24 VDC	3W
AZ00.476.0X	24 VAC	8,5 Va
AZ00.477.0X	110 VAC	8,5 Va

II2G EX IA IIC T6 GA/ II 2D EX TB IIIC T80°C DB IP65



Model	Tension	Power
AZ00.525.0	24 VDC	1,6W

II2G EX MB IIC T5 GB/ II 2D EX TB IIIC T95°C DB IP65



Model	Tension	Cable length
AZ00.284.0x	24 VDC	3 mt
AZ00.305.0X	24VDC	5 mt
AZ00.332.0X	24 VAC	3 mt
AZ00.393.0X	24 VAC	5 mt
AZ00.333.0X	110 VAC	3 mt
AZ00.336.0X	110 VAC	5 mt
AZ00.392.0X	220 VAC	3 mt
AZ00.370.0X	220 VAC	5 mt

5/2 WAY SOLENOID VALVE NAMUR MNF532 - IA



Specifications

- (MODEL) MNF532-IA
- (OPERATING PRESSURE) 2 TO 8 BAR
- (AIR FLOW) 950L /MIN
- (AIR SUPPLY PORT) G 1/4"
- (NUMBER OF WAYS) 3/2-5/2
- (BODY MATERIALS) ALLUMINIUM
- (SEALING MATERIALS) NBR
- (TEMPERATURE) -20 +50C
- (VOLTAGE) DC:24V
- (ATEX) II GD EX IA – ZONE 1 – 21 / ZONE: 21-22
  IP65

OPTIONS : BODY AISI 316L
MNF532-DM II GD EX DB, TB - ZONE 1 - 21 / ZONE: 21-22

5/2 WAY SOLENOID VALVE NAMUR MNF532 - D





Specifications

- (MODEL) MNF532-D
- (OPERATING PRESSURE) 2 TO 10 BAR
- (AIR FLOW) 950L /MIN
- (AIR SUPPLY PORT) G 1/4"
- (NUMBER OF WAYS) 3/2-5/2
- (BODY MATERIALS) ALLUMINIUM
- (SEALING MATERIALS) NBR
- (TEMPERATURE) -20 +50C
- (VOLTAGE) DC:24V AC: 110V-230V
- (ATEX) II GD EX D, TD – ZONE 1 – 21
  IP65

PLASTIC ADAPTER PLATE FROM 5/2 - 3/2



Specifications

(MODEL) B6001H
(OPERATING PRESSURE) 0.5 TO 10 BAR
(AIR FLOW) 650L /MIN
(NUMBER OF WAYS) 3/2-5/2-5/3

PLASTIC SPACER PLAIT COIL 30 MM



Specifications

(MODEL) D000NH
(OPERATING PRESSURE) 0.5 TO 10 BAR

ALLUMINIUM SPACER PLAIT COIL 30 MM



Specifications

(MODEL) 01.055.2
(OPERATING PRESSURE) 0.5 TO 10 BAR

SPEED REGULATOR PLATES 01.107.3



Specifications

(MODEL) 01.107.3 5/2 WHIT EXTERNAL HANDLES DE
(OPERATING PRESSURE)0.5 TO 10 BAR
(AIR FLOW) 650L /MIN
(NUMBER OF WAYS) 5/2-5/3
(BODY MATERIALS) ALLUMINIUM
(TEMPERATURE) -10 +50C

SPEED REGULATOR PLATES SC3 - M



Specifications

(MODEL) SC3-M 3/2 WHIT EXTERNAL HANDLES SE
(OPERATING PRESSURE) 0.5 TO 10 BAR
(AIR FLOW) 650L /MIN
(NUMBER OF WAYS) 3/2
(BODY MATERIALS) ALLUMINIUM
(TEMPERATURE) -10 +50C

BREATHER BLOCK 1/4 ALLUMINIUM



Specifications

(MODEL) SC6M01
(OPERATING PRESSURE) 0.5 TO 10 BAR
(BODY MATERIALS) ALLUMINIUM

BREATHER BLOCK 1/4 ALLUMINIUM



Specifications

(MODEL) SC6M01
(OPERATING PRESSURE) 0.5 TO 10 BAR
(BODY MATERIALS) ALLUMINIUM

ROTARY VALVE POSITIONER PEP - PET

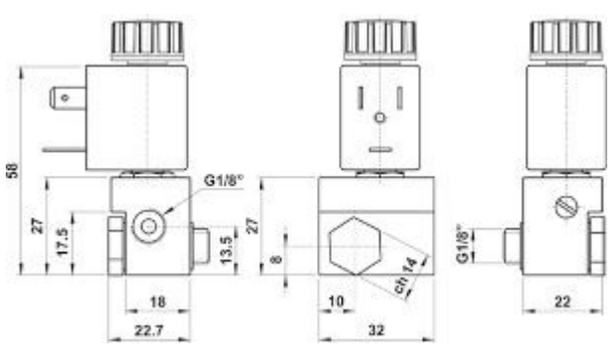


Specifications

(MODEL) PEP - PET
(PEP) 3-15 PSI PNEUMATIC POSITIONER
(PET60-RN4NS0000) ELETTRO-PNEUMATIC 4-20MA
(PET60-RE4NS0001)ELETTRO-PNEUMATIC 4-20MA EXD MB IIB T5 ATEX II 2 G
(PET600-RN4NS0M00) 4-20MA ELECTRO PNEU.WITH 2 INTERNAL SWITCHES SPDT
(PET60-RN4NS1000) 4-20MA ELECTRO PNEU.WITH 2 INTERNAL SWITCHES SPDT AND POSITION TRANSMITTER 4-20MA

ELECTRIC VALVES

SOLENOID VALVE AZ11.095.3 NC 3/2



Specifications

(MODEL) 11.095.3
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) 1/8" T
(OPERATING PRESSURE) 0 TO 7 BAR
(TEMPERATURE) -10 +80C FKM
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 3/2 VALVE,
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) NBR

CODICE	VOLTAGE	ATTACCO	CONNECTOR
AZ00.028.0	24 VDC 6 WATT	22 MM	22C
AZ00.029.0	24 VAC 8 VA	22 MM	22C
AZ00.030.0	110 VAC 10 VA	22 MM	22C
AZ00.031.0	220 VAC 8 VA	22 MM	22C

3/2 - 5/2 SOLENOID VALVE



Specifications

(MODEL) CS3V210-06 3/2 NC 1/8 MONOSTABLE
CS4V210-06 5/2 1/8 MONOSTABLE
CS4V220-06 5/2 1/8 BISTABLE
CS4V310-08 5/2 1/4 MONOSTABLE
CS4V320-08 5/2 1/4 BISTABLE
CS4V410-15 5/2 1/2 MONOSTABLE
CS4V420-15 5/2 1/2 BISTABLE
(OPERATING PRESSURE) 2 TO 10 BAR
(AIR FLOW) 1/8 500 L/MIN - 1/4 950 L/MIN - 1/2 4000 L/MIN
(AIR SUPPLY PORT) G 1/8"- G 1/4" - G 1/2 "
(NUMBER OF WAYS) 3/2-5/2
(BODY MATERIALS) ALLUMINIUM,
(SEALING MATERIALS) NBR
(TEMPERATURE) -20°C +50°C
(VOLTAGE) DC:12V-24V-48V
AC: 24V-115V-230V
IP65

COIL MORE CONNECTOR LED VDR

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CS00.028.0LV	24 VDC 6 WATT	22 MM	22C
CS00.029.0LV	24 VAC 8 VA	22 MM	22C
CS00.030.0LV	110 VAC 10 VA	22 MM	22C
CS00.031.0LV	220 VAC 8 VA	22 MM	22C

3/2 - 5/2 WAY PNEUMATIC VALVE



Specifications

(MODEL) CS3A210-06 3/2 NC 1/8 MONOSTABLE
CS4A210-06 5/2 1/8 MONOSTABLE
CS4A220-06 5/2 1/8 BISTABLE
CS4A310-08 5/2 1/4 MONOSTABLE
CS4A320-08 5/2 1/4 BISTABLE
CS4A410-15 5/2 1/2 MONOSTABLE
CS4A420-15 5/2 1/2 BISTABLE
(OPERATING PRESSURE) 2 TO 10 BAR
(AIR FLOW) 1/8 500 L/MIN - 1/4 950 L/MIN - 1/2 4000 L/MIN
(AIR SUPPLY PORT) G 1/8"- G 1/4" - G 1/2 "
(NUMBER OF WAYS) 3/2-5/2

SOLENOID VALVE SERIE 85 NC 2/2



Specifications

(MODEL) SERIE 85
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/2"
(OPERATING PRESSURE) 0 TO 20 BAR
(TEMPERATURE)-10 +155C FKM (1/8-1/4)
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) FKM
(OPTIONS)
(SEALING MATERIALS) NBR-EPDM-PTFE

NSF
NPT
ATEX
FOR OXYGEN
HIGT PRESSURE
PROPORTIONAL ACTING
PINCH SOLENOID VALVES

PILOTA AVVITATO SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S85-R2ABCAGV20	1/8	2	12	10	FKM	2800	22C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR2801	24 VDC 6 WATT	22 MM	22C
CAMR2808	24 VAC 8 VA	22 MM	22C
CAMR280D	110 VAC 10 VA	22 MM	22C
CAMR280E	220 VAC 8 VA	22 MM	22C

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S85-R2ACCAGV25	1/8	2,5	16	15	FKM	3000	30C
S85-R2ACCBGV25	1/4	2.5	16	15	FKM	3000	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR3001	24 VDC 10 WATT	30 MM	30C
CAMR300B	24 VAC 15 VA	30 MM	30C
CAMR300D	110 VAC 15	30 MM	30C
CAMR300E	220 VAC 15 VA	30 MM	30C



Specifications

(MODEL) SERIE 85
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/2"
(OPERATING PRESSURE) 0 TO 20 BAR
(TEMPERATURE) -10 +155C FKM (1/8-1/4)
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) FKM
(OPTIONS)
(SEALING MATERIALS) NBR-EPDM-PTFE

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S85-R2ACCBGV45	1/4	4,5	14	13	FKM	3600	30C
S85-R2ACCGGV45	3/8	4.5	14	13	FKM	3600	30C
S85-R2ACCDGV45	1/2	4.5	14	13	FKM	3600	30C
S85-R2ACCDGV52	1/2	5.2	10	9	FKM	3600	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR3601	24 VDC 24 WATT	30 MM	30C
CAMR360B	24 VAC 36 VA	30 MM	30C
CAMR360D	110 VAC 36 VA	30 MM	30C
CAMR360E	220 VAC 30 VA	30 MM	30C

SOLENOID VALVE SERIE 88 NA 2/2



Specifications

(MODEL) SERIE 88
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/4"
(OPERATING PRESSURE) 0 TO 7 BAR
(VALVE OPERATION TYPE) NORMALLY OPEN (NA)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS)BRASS,
(SEALING MATERIALS) FKM

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S88-R2ACAAGV25/R	1/8	2,5	12	12	FKM	3000	30C
S88-R2ACABGV25	1/4	2.5	12	12	FKM	3000	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR3001	24 VDC 10 WATT	30 MM	30C
CAMR300B	24 VAC 15 VA	30 MM	30C
CAMR300D	110 VAC 15 VA	30 MM	30C
CAMR300E	220 VAC 15 VA	30 MM	30C

SOLENOID VALVE SERIE 89 NC 3/2



Specifications

(MODEL) SERIE 89
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/4"
(OPERATING PRESSURE) 0 TO 20 BAR
(TEMPERATURE) -10 +155C FKM (1/8-1/4)
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
UNIVERSAL NC/NA
(NUMBER OF WAYS) 3/2 VALVE,
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) FKM

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S89-R2ACTAGV15	1/8	1,5	20	20	FKM	3000	30C
S89-R2ACTBGV25	1/4	2.5	10	10	FKM	3000	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR3001	24 VDC 10 WATT	30 MM	30C
CAMR300B	24 VAC 15 VA	30 MM	30C
CAMR300D	110 VAC 15 VA	30 MM	30C
CAMR300E	220 VAC 15 VA	30 MM	30C

SOLENOID VALVE SERIE 84 NC



Specifications

(MODEL) SERIE 84
(STRUCTURE) DIRECT
(SIZE RANGE) DN10 TO DN25, 3/8" TO 1"
(OPERATING PRESSURE) 0-10 BAR
(TEMPERATURE) -20 +90C NBR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) FKM -10+155,

(OPTIONS)
(SEALING MATERIALS) NBR-EPDM

NPT
ATEX
FOR OXYGEN

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S84-R2MHCCGV12	3/8	13	12	12	FKM	3600	30C
S84-R2MHCDGV12	1/2	13	12	12	FKM	3600	30C
S84-R2MHCEGV18	3/4	19	12	12	FKM	3600	30C
S84-R2MHCFGV25	1	25	10	6	FKM	3600	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR3601	24 VDC 24 WATT	30 MM	30C
CAMR360B	24 VAC 36 VA	30 MM	30C
CAMR360D	110 VAC 36 VA	30 MM	30C
CAMR360E	220 VAC 30 VA	30 MM	30C



Specifications

(MODEL) SERIE 86
(STRUCTURE) PISTON PILOTED
(SIZE RANGE) DN10 TO DN50, 3/8" TO 2"
(OPERATING PRESSURE) 0.1 TO 18 BAR
(TEMPERATURE) -20 +90C NBR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) BRASS,
(SEALING MATERIALS) NBR

(OPTION)
(SEALING MATERIALS) FKM-EPDM
NSF
NPT
ATEX
FOR OXYGEN
HIGT PRESSURE

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S86-R2SPCCGB12	3/8	13	16	16	NBR	2800	22C
S86-R2SPCDGB12	1/2	13	16	16	NBR	2800	22C
S86-R2SPCEGB18	3/4	19	16	16	NBR	2800	22C
S86-R2SPCFGB25	1	25	16	16	NBR	2800	22C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR2801	24 VDC 6 WATT	22 MM	22C
CAMR2808	24 VAC 8 VA	22 MM	22C
CAMR280D	110 VAC 10 VA	22 MM	22C
CAMR280E	220 VAC 8 VA	22 MM	22C

SOLENOID VALVE SERIE 87 NA



Specifications

(MODEL) SERIE 87	
(STRUCTURE) PISTON PILOTED	
(SIZE RANGE) DN10 TO DN50, 3/8" TO 2"	
(OPERATING PRESSURE) 0.1 TO 16 BAR	
(TEMPERATURE) -20 +90C NBR	
(VALVE OPERATION TYPE) NORMALLY OPEN (NA)	
(NUMBER OF WAYS)	2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS)	BRASS,
(SEALING MATERIALS) NBR	

(OPTIONS)
(SEALING MATERIALS) FKM-EPDM
NSF
NPT
ATEX
FOR OXYGEN
HIGT PRESSURE

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S87-R2SPACGB12	3/8	13	16	16	NBR	2800	22C
S87-R2SPADGB12	1/2	13	16	16	NBR	2800	22C
S87-R2SPAEGB18	3/4	19	16	16	NBR	2800	22C
S87-R2SPAFGB25	1	25	16	16	NBR	2800	22C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMR2801	24 VDC 6 WATT	22 MM	22C
CAMR2808	24 VAC 8 VA	22 MM	22C
CAMR280D	110 VAC 10 VA	22 MM	22C
CAMR280E	220 VAC 8 VA	22 MM	22C

INOX 304 SOLENOID VALVE SERIE 102



Specifications

(MODEL) SERIE 102
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/2"
(OPERATING PRESSURE) 0 TO 10 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) STAINLESS STEEL 304
(SEALING MATERIALS) PTFE -10+180C

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S102-2LH-1/8-20T	1/8	2	20	20	PTFE	CDA	PL2925M-P1
S102-2LH-1/4-20T	1/4	2	20	20	PTFE	CDA	PL2925M-P1

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CDA116B-24VDC	24 VDC 10 WATT	30 MM	PL2925M-P1
CDA116E-24VAC	24 VAC 15 VA	30 MM	PL2925M-P1
CDA116C-110VAC	110 VAC 15 VA	30 MM	PL2925M-P1
CDA116A-220VAC	220 VAC 15 VA	30 MM	PL2925M-P1

INOX 304 SOLENOID VALVE SERIE 103



Specifications

(MODEL) SERIE 103
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/2"
(OPERATING PRESSURE) 0 TO 7 BAR
(VALVE OPERATION TYPE) NORMALLY OPEN (NA)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) STAINLESS STEEL 304
(SEALING MATERIALS) PTFE -10+180C

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S103-2KH-1/8-20T	1/8	2	15	15	PTFE	CDA	PL2925M-P1
S103-2KH-1/4-20T	1/4	2	15	15	PTFE	CDA	PL2925M-P1

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CDA116B-24VDC	24 VDC 10 WATT	30 MM	PL2925M-P1
CDA116E-24VAC	24 VAC 15 VA	30 MM	PL2925M-P1
CDA116C-110VAC	110 VAC 15 VA	30 MM	PL2925M-P1
CDA116A-220VAC	220 VAC 15 VA	30 MM	PL2925M-P1

INOX 304 SOLENOID VALVE SERIE 100



Specifications

(MODEL) SERIE 100
(STRUCTURE) PISTON PILOTED
(SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 0.1 TO 7 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) INOX 304,
(SEALING MATERIALS) PTFE -10 +180C

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S100-2L-1/2-15T	1/2	15	15	10	PTFE	CDA	PL2925M-P1
S100-2L-3/4-20T	3/4	20	15	10	PTFE	CDA	PL2925M-P1
S100-2L-1-25T	1	25	15	10	PTFE	CDA	PL2925M-P1

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CDA116B-24VDC	24 VDC 10 WATT	30 MM	PL2925M-P1
CDA116E-24VAC	24 VAC 15 VA	30 MM	PL2925M-P1
CDA116C-110VAC	110 VAC 15 VA	30 MM	PL2925M-P1
CDA116A-220VAC	220 VAC 15 VA	30 MM	PL2925M-P1

INOX 316 SOLENOID VALVE SERIE 90



Specifications

(MODEL) SERIE 90
(STRUCTURE) DIRECT ACTING
(SIZE RANGE) DN06 TO DN15, 1/8" TO 1/2"
(OPERATING PRESSURE) 0 TO 25 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) STAINLESS STEEL 316
(SEALING MATERIALS) FKM -10+155C

(OPTIONS)
NSF

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S90-42MR-1/8-15V	1/8	1,5	40	15	FKM	SM6-1	30C
S90-43MR-1/4-25V	1/4	2,5	25	12	FKM	SM6-1	30C
S90-43MR-1/4-4V	1/4	4	12	6	FKM	SM6-1	30C
S90-44MR-3/8-V	3/8	5	8	5	FKM	SM6-1	30C
S90-44MR-3/8-64V	3/8	6,4	6	4	FKM	SM6-1	30C
S90-45MR-1/2-64V	1/2	6,4	6	4	FKM	SM6-1	30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMSM6/1-24VDC	24 VDC 24 WATT	30 MM	30C
CAMSM6/1-24VAC	24 VAC 36 VA	30 MM	30C
CAMSM6/1-110VAC	110 VAC 36 VA	30 MM	30C
CAMSM6/1-220VAC	220 VAC 30 VA	30 MM	30C

INOX 316 SOLENOID VALVE SERIE 86 NC



Specifications

(MODEL) SERIE 86 INOX
(STRUCTURE) PISTON PILOTED
(SIZE RANGE) DN15 TO DN25, 1/2" TO 1"
(OPERATING PRESSURE) 0.15 TO 15 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(NUMBER OF WAYS) 2/2 VALVE, TWO WAY TWO POSITION
(BODY MATERIALS) INOX 316,
(SEALING MATERIALS) PTFE -20 +125C

(OPTIONS)
NPT

PILOTA SOLENOID VALVE

CODICE	FILETTO	FORO mm	BAR -Vac	BAR- Vcc	SEAL	COIL	CONNECTOR
S86INOX-1/2-12T	1/2	13	20	20	PTFE		30C
S86INOX-3/4-19T	3/4	19	20	20	PTFE		30C
S86INOX-1-25T	1	25	20	20	PTFE		30C

COIL

CODICE	VOLTAGE	ATTACCO	CONNECTOR
CAMBDA24VDC	24 VDC 10 WATT	30 MM	30C
CAMBDA24VAC	24 VAC 15 VA	30 MM	30C
CAMBDA110VAC	110 VAC 15 VA	30 MM	30C
CAMBDA220VAC	220 VAC 15 VA	30 MM	30C

PNEUMATIC ANGLE SEAT VALVE SSJZF - LUC



Specifications

- (SIZE RANGE) DN10 TO DN50, 3/8" TO 2"
- (OPERATING PRESSURE) 0 TO 1.6MPA
- (VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
- (ACTUATOR MATERIALS) STAINLESS STEEL D28-40-50-63-90
- (BODY MATERIALS) STAINLESS STEEL
- (SEALING MATERIALS), PTFE (TEFLON) -10 -180C
- (PISTON SEALING MATERIALS), FKM (VITON)
- (TEMPERATURE) -10 /+180C PTFE
- (ATEX) II 2GD C IIC TX

LUCIDE - POLISHED **DESIGNED TO PREVENT WATER HAMMER**
PRESSURE BELOW MAIN SEAT

CODICE	FILETTO	FORO mm	BAR Max	ACTUATOR	SEAL
SSJZF10-28LUC	3/8	13	7	28	PTFE
SSJZF15-28LUC	1/2	13	7	28	PTFE
SSJZF15-40LUC	1/2	13	13	40	PTFE
SSJZF15-50LUC	1/2	13	14	50	PTFE
SSJZF20-50LUC	3/4	18	14	50	PTFE
SSJZF25-50LUC	1	24	8	50	PTFE
SSJZF25-63LUC	1	24	13	63	PTFE
SSJZF32-63LUC	1 1/4	31	6	63	PTFE
SSJZF32-90LUC	1 1/4	31	16	90	PTFE
SSJZF40-63LUC	1 1/2	35	5	63	PTFE
SSJZF40-90LUC	1 1/2	35	16	90	PTFE
SSJZF50-90LUC	2	45	10	90	PTFE

Model	Orifice(mm)	Port size	Actuator(mm)	Kv (m^3/h)	Max. working pressure(bar)				Min. control pressure(bar)
					Single, NC	Single, NO	Double	NC, under seat	NC, under seat
SSJZF-40-15	14	G1/2″	40	4	16	8	16	4,5	5
SSJZF-50-15	14	G1/2″	50	4	16	16	16	11	5
SSJZF-50-20	18	G3/4″	50	6	16	16	16	9	5
SSJZF-50-25	25	G1″	50	14	16	10	16	6	6
SSJZF-63-25	25	G1″	63	14	16	16	16	11	5,5
SSJZF-63-32	31	G1 1/4″	63	20	16	12	16	6	5,5
SSJZF-63-40	35	G1 1/2″	63	21	16	10	16	5	5,5
SSJZF-80-40	35	G1 1/2″	80	21	16	16	16	8	5
SSJZF-80-50	45	G2″	80	35	16	8	16	—	—
Model	Orifice(mm)	Port size	Actuator(mm)	Kv (m^3/h)	Max. working pressure(bar)				Min. control pressure(bar)
					Single, NC	Single, NO	Double	NC, under seat	NC, under seat
SSJZF-LUC40-15	14	G1/2″	40	4	16	8	16	13	6
SSJZF-LUC50-15	14	G1/2″	50	4	16	16	16	14	6
SSJZF-LUC50-20	18	G3/4″	50	6	16	16	16	14	6
SSJZF-LUC50-25	25	G1″	50	14	16	10	16	8	6
SSJZF-LUC63-25	25	G1″	63	14	16	16	16	13	6
SSJZF-LUC63-32	31	G1 1/4″	63	20	16	12	16	6	6
SSJZF-LUC63-40	35	G1 1/2″	63	21	16	10	16	5	6
SSJZF-LUC90-40	35	G1 1/2″	90	21	16	16	16	16	6
SSJZF-LUC90-50	45	G2″	90	35	16	8	16	10	6

PNEUMATIC ANGLE SEAT VALVE SSJZF



Specifications

(SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL D27-40-50-63-80
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) PTFE (TEFLON) -10 -180C
(PISTON SEALING MATERIALS), FKM (VITON)
(TEMPERATURE) -10 +180C PTFE

OPACHE - RAW MATTE PRESSURE ABOVE MAIN SEAT

CODICE	FILETTO	FORO mm	BAR Max	BAR Max Abowe seat	ACTUATOR	SEAL
SSJZF15-27	1/2	13	8	8	27	PTFE
SSJZF15-40	1/2	13	16	16	40	PTFE
SSJZF20-50	3/4	18	16	16	50	PTFE
SSJZF25-50	1	24	13	16	50	PTFE
SSJZF25-63	1	24	16	16	63	PTFE
SSJZF32-63	1 1/4	31	16	16	63	PTFE
SSJZF40-63	1 1/2	35	13	16	63	PTFE
SSJZF40-80	1 1/2	35	16	16	80	PTFE
SSJZF50-80	2	45	16	16	80	PTFE



SSJZ15-27 ONLY DOUBLE EFFECT

PNEUMATIC ANGLE SEAT VALVE SSJPL



Specifications

(SIZE RANGE) DN15 TO DN50, 3/8" TO 2"
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL D40-50-63-80
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) PTFE (TEFLON) -10 -180C
(PISTON SEALING MATERIALS) FKM (VITON)
(TEMPERATURE) -10 +180C PTFE

PRESSURE ABOVE MAIN SEAT

CODICE	FILETTO	FORO mm	BAR Max	BAR Max Abowe seat	ACTUATOR	SEAL
SSJZF15-40	1/2	13	16	16	40	PTFE
SSJZF15-50	3/4	18	16	16	50	PTFE
SSJZF20-50	1	24	13	16	50	PTFE
SSJZF25-63	1	24	16	16	63	PTFE
SSJZF25-63	1 1/4	31	16	16	63	PTFE
SSJZF32-63	1 1/2	35	13	16	63	PTFE
SSJZF40-80	2	45	16	16	80	PTFE

POSITION INDICATOR INOX 316 CS685



Specifications

(SIZE RANGE) DN10 TO DN50, 1/2" TO 2"
(BODY MATERIALS) STAINLESS STEEL
(TEMPERATURE) -20 +70C

POSITION INDICATOR PG-1435 FOR SSJZF





Specifications

(SIZE RANGE) DM40-50-63-80
(STROKE) 5-35 MM
(AMPERE) 25MA A 24VDC
(TEMPERATURE) -20 +70C
(MECCANICAL SWITCH) SPDM
(PROTECTION) IP 65

FOR SSJZF-15-40LUC ASSEMBLING IN FACTORY

POSSIMITY SENSOR FOR SSJZF





Specifications

(SIZE RANGE) DM40-50-63-80
(OUPUT TYPE) NPN-PNP

PNEUMATIC ANGLE SEAT VALVE SSJAP



Specifications

(SIZE RANGE) DN10 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 0 TO 40 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) GLASS FIBRE PA 66
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) FKM (VITON),
PTFE (TEFLON) -40 +180C
(PISTON SEALING MATERIALS) NBR, FKM (VITON)

40 BAR

PNEUMATIC ANGLE SEAT VALVE SSJZFP



Specifications

(SIZE RANGE) DN10 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 0 TO 16 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) GLASS FIBRE PA 66
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) PTFE (TEFLON) -40 +180C
(PISTON SEALING MATERIALS) PTFE
(ATEX) II 2GD C IIC TX

C21IZ1 Series compliant with MOCA Regulations

CAM informs about the introduction of the C21IZ1 Series version compliant with European Regulation 1935/2004 (MOCA) in the pneumatic valves range.





The product compliant with EC Regulation 1935/2004 can to be used in the Food & Beverage sector, where is very important to guarantee the composition and organoleptic properties of the food fluid are not altered / contaminated by contact with the internal com- ponents of the valve.

EC regulation 1935/2004 guarantees the suitability of materials
(valve components) that come into contact with food products.

P Compliance identifier
CE 1935/2004

The C21IZ1 valve compliant with CE 1935/2004 is designed with materials (parts in contact with the fluid) suitable for food sector use. In particular, in addition to the AISI 316 steel body, the stem seal is made of PEEK and the shutter in virgin PTFE.

C21	IZ1	CS	1	A	T	P	1/2	40	BP
C21	IZ1	CS	1	A	T	P	3/4	50	BP
C21	IZ1	CS	1	A	T	P	1	50	BP

PNEUMATIC ANGLE SEAT VALVE SSJZMOD



Specifications

- (SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
- (OPERATING PRESSURE) 0 TO 1.6MPA
- (VALVE OPERATION TYPE) NC
- (ACTUATOR MATERIALS) STAINLESS STEEL
- (BODY MATERIALS) STAINLESS STEEL
- (SEALING MATERIALS) EPDM -FKM-PEEK
- (TEMPERATURE) -10 +180C PTFE

CODICE	FILETTO	FORO mm	BAR Max	ACTUATOR	SEAL
SSJZMOD-20-63	3/4	18	13	63	FKM
SSJZMOD-25-63	1	24	12	63	FKM
SSJZMOD-32-90	1 1/4	31	9	90	FKM
SSJZMOD-40-90	1 1/2	35	10	90	FKM



POSITIONER CAM 1500

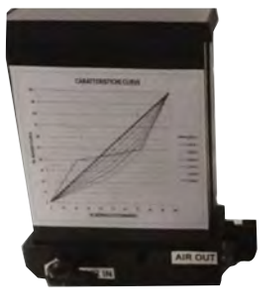


Specifications

- (MODEL) CAM 1500
- (ALIMENTATION) 24 VDC
- (SEGNAL) 4-20MA
- (PNEUMATIC SEGNAL) 5-8 BAR
- (PROTECTION) IP 66



ELECTRONIC CONTROL ITB - DRIVE



Specifications

(MODEL) ITB-DRIVE
(ALIMENTATION) 24 VDC
(SEGNAL) 0-10V/ 4-20MA
(PNEUMATIC SEGNAL) 5-8 BAR
(PROTECTION) IP 54

PNEUMATIC ANGLE SEAT VALVE SSJMINI

PRODOTTO IMPORT IMPORTATO



Specifications

(SIZE RANGE) 1/2" TO 1"
(OPERATING PRESSURE) 0 TO 10 BAR
(VALVE OPERATION TYPE) NC
(ACTUATOR MATERIALS) ALLUMINIUM
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) VITON
(TEMPERATURE) -10 +150
PRESSURE ABOVE SHETTER

CODICE	FILETTO	FORO mm	BAR Max	ACTUATOR	SEAL
SSJMINI-15	1/2	13	10	37	VITON
SSJMINI-20	3/4	18	10	37	VITON
SSJMINI-25	1	24	10	37	VITON

PNEUMATIC ANGLE SEAT VALVE RQ22HD



Specifications

(SIZE RANGE) DN15 TO DN25, 1/2" TO 1"
(OPERATING PRESSURE) 0 TO 12 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) ALLUMINIUM
(BODY MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(PISTON SEALING MATERIALS) NBR
(TEMPERATURE) -10 +90C

CODICE	FILETTO	FORO mm	BAR Max	ACTUATOR	SEAL
RQ22HD-15	1/2	13	10	37	PTFE
RQ22HD-20	3/4	18	10	37	PTFE
RQ22HD-25	1	24	10	37	PTFE

ON DEMAND

PNEUMATIC ANGLE SEAT VALVE SSJZF - FL



Specifications

(SIZE RANGE) DN10 TO DN100 DIN 2576
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL
(BODY MATERIALS) STAINLESS STEEL
(SEALING MATERIALS) FKM (VITON),
PTFE (TEFLON) -10 +180C
(PISTON SEALING MATERIALS) NBR, FKM (VITON)

PNEUMATIC ANGLE SEAT VALVE SSJZF - WL



Specifications

(SIZE RANGE) DN15 TO DN80,
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL
(BODY MATERIALS) STAINLESS STEEL DIN 11850-2
(SEALING MATERIALS) FKM (VITON),
PTFE (TEFLON) -10 +180C
(PISTON SEALING MATERIALS) NBR, FKM (VITON)

PNEUMATIC ANGLE SEAT VALVE SSJZF - CLAMP



Specifications

(SIZE RANGE) DN15 TO DN50,
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL
(BODY MATERIALS) STAINLESS STEEL TRI-CLAMP
ISO2852-1993
(SEALING MATERIALS) FKM (VITON),
PTFE (TEFLON) -10 +180C
(PISTON SEALING MATERIALS) NBR, FKM (VITON)

PNEUMATIC ANGLE SEAT VALVE SSJMO



Specifications

(SIZE RANGE) DN15 OR DN25,
(OPERATING PRESSURE) 0 TO 1.6MPA
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) STAINLESS STEEL
(BODY MATERIALS) STAINLESS STEEL GAS
(SEALING MATERIALS) FKM (VITON),
PTFE (TEFLON) -10 +180C
(PISTON SEALING MATERIALS) NBR, FKM (VITON)

PNEUMATIC ANGLE SEAT VALVE VBR5NC



Specifications

(SIZE RANGE) DN10 TO DN50, 1/2" TO 2"
(OPERATING PRESSURE) 0 TO 12 BAR
(VALVE OPERATION TYPE) NORMALLY CLOSED (NC)
(ACTUATOR MATERIALS) ALLUMINIUM
(BODY MATERIALS) BRASS
(SEALING MATERIALS) FKM (VITON) -20 +60C
(PISTON SEALING MATERIALS) FKM
(ACTING MODE) DOUBLE ACTING,
SINGLE ACTING NA
(SPRING RETURN)

PINCH VALVES OV



Specifications

(SIZE RANGE) DN15-DN250 PN10
(OPERATING PRESSURE) 5 BAR
(VALVE OPERATION TYPE) DE-NC
(BODY MATERIALS)ALLIMINIUM
(SEALING MATERIALS)RUBBER-EPDM

PINCH VALVES VF



Specifications

(SIZE RANGE) DN10-DN250 PN10
(OPERATING PRESSURE) 5 BAR
(VALVE OPERATION TYPE)DE-NC
(BODY MATERIALS) ALLIMINIUM POM-INOX
(SEALING MATERIALS) RUBBER-EPDM

11 - BALL VALVES FULL BORE BRASS

2 WAY BALL VALVE F/F VSFF954PLUS



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VS954PLUS-1/4	VS954PLUS-3/8	VS954PLUS-1/2	VS954PLUS-3/4	VS954PLUS-1	VS954PLUS-11/4
SIZE	1 1/2	2				
PN	32	32				
CODICE	VS954PLUS-11/2	VS954PLUS-2				

2 WAY BALL VALVE M/F VSMF956PLUS



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSMF956PLUS-1/4	VSMF956PLUS-3/8	VSMF956PLUS-1/2	VSMF956PLUS-3/4	VSMF956PLUS-1	VSMF956PLUS-11/4
SIZE	1 1/2	2				
PN	32	32				
CODICE	VSMF956PLUS-11/2	VSMF956PLUS-2				

2 WAY BALL VALVE M/M VSMM957PLUS



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSMM957PLUS-1/4	VSMM957PLUS-3/8	VSMM957PLUS-1/2	VSMM957PLUS-3/4	VSMM957PLUS-1	VSMM957PLUS-11/4
SIZE	1 1/2	2				
PN	32	32				
CODICE	VSMM957PLUS-11/2	VSMM957PLUS-2				

2 WAY BALL VALVE F/F CAM954 RED HANDLE



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSFF954-1/4	VSFF954-3/8	VSFF954-1/2	VSFF954-3/4	VSFF954-1	VSFF954-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	VSFF954-11/2	VSFF954-2	VSFF954-21/2	VSFF954-3	VSFF954-4	

CAM 954 LB BLUE HANDLE



CAM 954 LN BLACK HANDLE



2 WAY BALL VALVE F/F CAM954A RED BUTTERFLY



Specifications

(SIZE RANGE) DN08 TO DN32, 1/4" TO 11/4"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSFF954A-1/4	VSFF954A-3/8	VSFF954A-1/2	VSFF954A-3/4	VSFF954A-1	VSFF954A-11/4

CAM 954/A FB BLUE BUT



CAM 954/AFN BLACK BUT



2 WAY BALL VALVE M/F CAM956 RED HANDLE



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSMF956-1/4	VSMF956-3/8	VSMF956-1/2	VSMF956-3/4	VSMF956-1	VSMF956-11/4
SIZE	1 1/2	2				
PN	32	32				
CODICE	VSMF956-11/2	VSMF956-2				

CAM 956 LB BLUE HANDLE



CAM 956 LN BLACK HANDLE



2 WAY BALL VALVE M/F CAM956A RED BUTTERFLY



Specifications

(SIZE RANGE) DN08 TO DN32, 1/4" TO 11/4"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSFF956A-1/4	VSFF956A-3/8	VSFF956A-1/2	VSFF956A-3/4	VSFF956A-1	VSFF956A-11/4

CAM 956/A FB BLUE BUT



CAM 956/A FN BLACK BUT



2 WAY BALL VALVE M/M CAM957 RED HANDLE



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSMM957-1/4	VSMM957-3/8	VSMM957-1/2	VSMM957-3/4	VSMM957-1	VSMM957-11/4
SIZE	1 1/2	2				
PN	32	32				
CODICE	VSMM957-11/2	VSMM957-2				

CAM 957 LB BLUE HANDLE



CAM 957 LN BLACK HANDLE



2 WAY BALL VALVE M/M CAM957A RED BUTTERFLY



Specifications

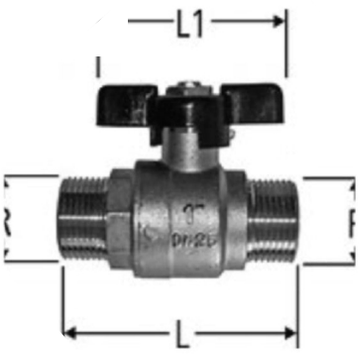
(SIZE RANGE) DN08 TO DN25, 1/4" TO 1"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSMM957A-1/4	VSMM957A-3/8	VSMM957A-1/2	VSMM957A-3/4	VSMM957A-1	VSMM957A-11/4

CAM 957/A FB BLUE BUT



CAM 957/AFN BLACK BUT



OND DEMAND
GAS VALVES WITH YELLOW BUTTERFLY APPROVED DVGW HTB



DVGW



2 WAY BALL VALVE F/F VSFF45 NPT



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4" NPT
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSFF45-1/4	VSFF45-3/8	VSFF45-1/2	VSFF45-3/4	VSFF45-1	VSFF45-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	VSFF45-11/2	VSFF45-2	VSFF45-21/2	VSFF45-3	VSFF45-4	

2 WAY BALL VALVE F/F VSFF45/A NPT



Specifications

(SIZE RANGE) DN08 TO DN25, 1/4" TO 1" NPT
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	
PN	50	50	50	50	40	
CODICE	VSFF45A-1/4	VSFF45A-3/8	VSFF45A-1/2	VSFF45A-3/4	VSFF45A-1	

BALL VALVES STANDARD BORE BRASS

2 WAY BALL VALVE F/F CAM918 RED HANDLE



Specifications

(SIZE RANGE) DN15 TO DN100, 1/2" TO 4"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -10 +150C

SIZE			1/2	3/4	1	1 1/4
PN			50	50	40	40
CODICE			VSFF918-1/2	VSFF918-3/4	VSFF918-1	VSFF918-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	VSFF918-11/2	VSFF918-2	VSFF918-21/2	VSFF918-3	VSFF918-4	

CAM 918 LB BLUE HANDLE



CAM 918 LN BLACK HANDLE



2 WAY BALL VALVE M/F CAM919 RED HANDLE

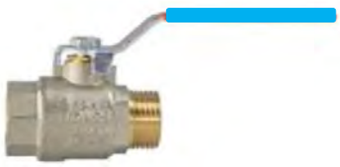


Specifications

(SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -10 +150C

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	50	50	40	40	32	32
CODICE	VSMF919-1/2	VSMF919-3/4	VSMF919-1	VSMF919-11/4	VSMF919-11/2	VSMF919-2

CAM 919 LB BLUE HANDLE



CAM 919 LN BLACK HANDLE



2 WAY BALL VALVE M/F CAM919A RED BUTTERFLY



Specifications

- (SIZE RANGE) DN15 TO DN25, 1/2" TO 1"
- (BODY MATERIALS) BRASS PN 40
- (BALL MATERIALS) BRASS
- (SEALING MATERIALS) PTFE
- (TEMPERATURE) -10 +150C

SIZE	1/2	3/4	1
PN	50	50	40
CODICE	VSMF919A-1/2	VSMF919A-3/4	VSMF919A-1

CAM 919/A FB BLUE BUT



CAM 919/AFN BLACK BUT



2 WAY BALL VALVE M/F CAM920 RED BUTTERFLY



Specifications

(SIZE RANGE) DN15 TO DN20, 1/2" TO 3/4"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -10 +150C

SIZE	1/2	3/4	
PN	50	50	
CODICE	VSMM920-1/2	VSMM920-3/4	

CAM 920/A RED BUT



SIZE	1/2	3/4	
PN	50	50	
CODICE	VSMM920A-1/2	VSMM920A-3/4	

BALL VALVES 3 WAY STANDARD BORE BRASS

3 WAY VS3FF - L OR T F/F RED HANDLE



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +150C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
ART. L	V3SFFL-1/4	V3SFFL-3/8	V3SFFL-1/2	V3SFFL-3/4	V3SFFL-1	V3SFFL-11/4
SIZE	1 1/2	2				
PN	32	32				
ART. L	V3SFFL-11/2	V3SFFL-2				

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
ART. T	V3SFFT-1/4	V3SFFT-3/8	V3SFFT-1/2	V3SFFT-3/4	V3SFFT-1	V3SFFT-11/4
SIZE	1 1/2	2				
PN	32	32				
ART. T	V3SFFT-11/2	V3SFFT-2				

ON DEMAND

3 WAY CAM72 - T CAM73-L RED HANDLE



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +150C

MINIBALL BRASS

MINIBALL F/F MVSFF - ES BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/4"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8	1/2	3/4
PN	16	16	16	16	16
CODICE	MVSFF-1/8ES	MVSFF-1/4ES	MVSFF-3/8ES	MVSFF-1/2ES	MVSFF-3/4ES

MINIBALL M/F MVSMF - ES BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/4"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8	1/2	3/4
PN	16	16	16	16	16
CODICE	MVSMF-1/8ES	MVSMF-1/4ES	MVSMF-3/8ES	MVSMF-1/2ES	MVSMF-3/4ES

MINIBALL M/M MVSMM - ES BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/4"
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8	1/2	3/4
PN	16	16	16	16	16
CODICE	MVSMM-1/8ES	MVSMM-1/4ES	MVSMM-3/8ES	MVSMM-1/2ES	MVSMM-3/4ES

MINIBALL F/F MVFF - BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 1/2"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8	1/2
PN	20	20	20	20
CODICE	MVFF-1/8	MVFF-1/4	MVFF-3/8	MVFF-1/2

MINIBALL F/F MVFFSF - 3 WAY BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/8"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8
PN	20	20	20
CODICE	MVFFSF-1/8	MVFFSF-1/4	MVFFSF-3/8

MINIBALL F/F MVMF BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 1/2"
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4	3/8	1/2	1/4 1/8	3/8 1/4
PN	20	20	20	20	20	20
CODICE	MVMF-1/8	MVMF-1/4	MVMF-3/8	MVMF-1/2	MVMF-1/4-1/8	MVMF3/8-1/4

MINIBALL M/AR BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/8 TUBE 4/6/8
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8-4	1/4-4	1/8-6	1/4-6	3/8-6	1/4-8
PN	20	20	20	20	20	20
ART. L	MVM/AR-184	MVM/AR144	MVM/AR186	MVM/AR146	MVM/AR386	MVM/AR148
SIZE	3/8-8					
PN	20					
ART. L	MVM/AR388					

MINIBALL MVAR BLACK BUTTERFLY



Specifications

(SIZE RANGE) 4/6/8
(BODY MATERIALS) BRASS PN 50
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	4	6	8
PN	20	20	20
CODICE	MVAR4	MVAR6	MVAR8

MINIBALL MVBB BLACK BUTTERFLY



Specifications

(SIZE RANGE) 4/6/8
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	6-6	6-8	8-8
PN	20	20	20
CODICE	MVBB66	MVBB6-8	MVBB88

MINIBALL MV M/B BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 3/8 TUBE 4/6/8
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8-6	1/4-6	1/8-8	1/4-8	3/8-8
PN	20	20	20	20	20
ART. L	MVMB-186	MVMB-146	MVMB-188	MVMB-148	MVMB-388

MINIBALL MV M/BAIO BLACK BUTTERFLY



Specifications

(SIZE RANGE) 1/8" TO 1/4
(BODY MATERIALS) BRASS PN 40
(BALL MATERIALS) BRASS
(SEALING MATERIALS) NBR
(TEMPERATURE) -20 +90C

SIZE	1/8	1/4
PN	20	20
CODICE	MVM/BAIO1/8	MVM/BAIO1/4

LEVE DISPONIBILI – LEVEL ON DEMAND



STRAINER BRASS

Y STRAINER VSY924



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) BRASS PN 16
(MESH) INOX

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	40	40
CODICE	VSY924-1/4	VSY924-3/8	VSY924-1/2	VSY924-3/4	VSY924-1	VSY924-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	VSY924-11/2	VSY924-2	VSY924-21/2	VSY924-3	VSY924-4	

STRAINER CAM995L



Specifications

(SIZE RANGE) 3/8" TO 4"
(BODY MATERIALS) NYLON
(MESH) INOX

SIZE			1/2	3/4	1	1 1/4
PN			50	50	40	40
CODICE			CAM995L-1/2	CAM995L-3/4	CAM995L-1	CAM995L-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	CAM995L-11/2	CAM995L-2	CAM995L-21/2	CAM995L-3	CAM995L-4	

STRAINER CAM98



Specifications

(SIZE RANGE) 3/8" TO 4"
(BODY MATERIALS) BRASS
(MESH) INOX

SIZE			1/2	3/4	1	1 1/4
PN			50	50	40	40
CODICE			CAM98-1/2	CAM98-3/4	CAM98-1	CAM98-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	CAM98-11/2	CAM98-2	CAM98-21/2	CAM98-3	CAM98-4	

CYLINDRICAL FOOT VALVE CAM90



Specifications

(SIZE RANGE) 3/4" TO 4"
(BODY MATERIALS) BRASS

SIZE				3/4	1	1 1/4
PN				50	40	40
CODICE				CAM90-3/4	CAM90-1	CAM90-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	CAM90-11/2	CAM90-2	CAM90-21/2	CAM90-3	CAM90-4	

FOOT VALVE CAM994



Specifications

(SIZE RANGE)3/4" TO 4"
(BODY MATERIALS) BRASS

SIZE			1/2	3/4	1	1 1/4
PN			50	50	40	40
CODICE			CAM994-1/2	CAM994-3/4	CAM994-1	CAM994-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	32	32	16	16	16	
CODICE	CAM994-11/2	CAM994-2	CAM994-21/2	CAM994-3	CAM994-4	

SWING CHECK CAM993TG



Specifications

(SIZE RANGE) DN08 TO DN100, 1/2" TO 4"
(BODY MATERIALS) BRASS
(SEAT) RUBBER SEAT

SIZE			1/2	3/4	1	1 1/4
PN			16	16	16	16
CODICE			CAM993TG-1/2	CAM993TG-3/4	CAM993TG-1	CAM993TG-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	16	16	16	
CODICE	CAM993TG-11/2	CAM993TG-2	CAM993TG-21/2	CAM993TG-3	CAM993TG-4	

SWING CHECK CAM993TM



Specifications

(SIZE RANGE) DN08 TO DN100, 1/2" TO 4"
(BODY MATERIALS) BRASS
(SEAT) METAL SEAT

SIZE			1/2	3/4	1	1 1/4
PN			16	16	16	16
CODICE			CAM993TM-1/2	CAM993TM-3/4	CAM993TM-1	CAM993TM-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	16	16	16	
CODICE	CAM993TM-11/2	CAM993TM-2	CAM993TM-21/2	CAM993TM-3	CAM993TM-4	

CHECK VALVES VSRT-999H



Specifications

(SIZE RANGE) 3/8" TO 4"
(BODY MATERIALS) BRASS PN25
(SHUTTER) INOX

SIZE		3/8	1/2	3/4	1	1 1/4
PN		25	25	25	25	16
CODICE		VSRT-999H-3/8	VSRT-999H-1/2	VSRT-999H-3/4	VSRT-999H-1	VSRT-999H-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
CODICE	VSRT-999H-11/2	VSRT-999H-2	VSRT-999H-21/2	VSRT-999H-3	VSRT-999H-4	

CHECK VALVES VSRT-999L



Specifications

(SIZE RANGE) 3/8" TO 4"
(BODY MATERIALS) BRASS PN 16
(SHUTTER) NYLON

SIZE		3/8	1/2	3/4	1	1 1/4
PN		25	25	25	25	16
CODICE		VSRT-999L-3/8	VSRT-999L-1/2	VSRT-999L-3/4	VSRT-999L-1	VSRT-999L-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
CODICE	VSRT-999L-11/2	VSRT-999L-2	VSRT-999L-21/2	VSRT-999L-3	VSRT-999L-4	

CHECK VALVES VSRT-999H



Specifications

(SIZE RANGE) 3/8" TO 4"
(BODY MATERIALS) BRASS
(BUIL-OM MESH) INOX

SIZE			1/2	3/4	1	1 1/4
PN			25	25	25	16
CODICE			VSRT-923-1/2	VSRT-923-3/4	VSRT-923-1	VSRT-923-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
CODICE	VSRT-923-11/2	VSRT-923-2	VSRT-923-21/2	VSRT-923-3	VSRT-923-4	

GATE VALVES

GATE VALVE CAM140



Specifications

(SIZE RANGE) DN10 TO DN100, 3/8" TO 4"
(BODY MATERIALS) BRASS PN 20

SIZE		3/8	1/2	3/4	1	1 1/4
PN		20	20	20	20	20
CODICE		CAM140-3/8	CAM140-1/2	CAM140-3/4	CAM140-1	CAM140-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	20	20	20	20	20	
CODICE	CAM140-11/2	CAM140-2	CAM140-21/2	CAM140-3	CAM140-4	

GATE VALVE CAM605



Specifications

(SIZE RANGE) DN15 TO DN150, 1/2" TO 6"
(BODY MATERIALS) BRASS PN 16

SIZE	3/8	1/2	3/4	1	1 1/4	1 1/2
PN	16	16	16	16	16	16
CODICE	CAM605-3/8	CAM605-1/2	CAM605-3/4	CAM605-1	CAM605-11/4	CAM605-11/2
SIZE	2	2 1/2	3	4	5	6
PN	16	16	16	16	16	16
CODICE	CAM605-2	CAM605-21/2	CAM605-3	CAM605-4	CAM605-5	CAM605-6

GATE VALVE CAM600



Specifications

(SIZE RANGE) DN15 TO DN50, 1/2" TO 2"
(BODY MATERIALS) BRASS PN 10

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	10	10	10	10	10	10
CODICE	CAM600-1/2	CAM600-3/4	CAM600-1	CAM600-11/4	CAM600-11/2	CAM600-2

PRESSURE REDUCING VALVES

PRESSURE REDUCING CAM302



Specifications

(SIZE RANGE) DN 25, 1/2"

SIZE	1/2
PN	20
CODICE	CAM302-1/2

PRESSURE REDUCING CAM304



Specifications

(SIZE RANGE) 3/8" TO 3/4"
(BODY MATERIALS) BRASS
(GAUGES CONNECTION) 1/4

SIZE	3/8	1/2	3/4
PN	10	10	10
CODICE	CAM304-3/8	CAM304-1/2	CAM304-3/4

PRESSURE REDUCING CAM305



Specifications

(SIZE RANGE) 1/2" TO 3"
(BODY MATERIALS) BRASS
(GAUGES CONNECTION) 1/4

SIZE		1/2	3/4	1	1 1/4	1 1/2
PN		25	25	25	25	25
CODICE		CAM305-1/2	CAM305-3/4	CAM305-1	CAM305-11/4	CAM305-11/2
SIZE	2	2 1/2	3			
PN	25	25	25			
CODICE	CAM305-2	CAM305-21/2	CAM305-3			

PRESSURE REDUCING CAM303



Specifications

(SIZE RANGE) 1/2" TO 3"
(BODY MATERIALS) BRASS
(GAUGES CONNECTION) 1/4
(SEAT) INOX

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	25	25	25	25	25	25
CODICE	CAM303-1/2	CAM303-3/4	CAM303-1	CAM303-11/4	CAM303-11/2	CAM303-2

PRESSURE REDUCING CAM300 MM



Specifications

(SIZE RANGE) 1/2" TO 3"
(BODY MATERIALS) BRASS M/M
(GAUGES CONNECTION) 1/4
(SEAT) INOX

SIZE	1/2	3/4	1	1 1/4	1 1/2	2
PN	25	25	25	25	25	25
CODICE	CAM300-1/2	CAM300-3/4	CAM300-1	CAM300-11/4	CAM300-11/2	CAM300-2

MINIBALL F/F MVSX FF BLUE BUTTERFLY



Specifications

(SIZE RANGE) 1/4" TO 1/2"
(BODY MATERIALS) INOX PN 40
(BALL MATERIALS) INOX
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +120C

SIZE		1/4	3/8	1/2
PN		40	40	40
CODICE		MVSXFF-1/4	MVSXFF-3/8	MVSXFF-1/2

MINIBALL F/F MVSX MF BLUE BUTTERFLY



Specifications

(SIZE RANGE) 1/4" TO 1/2"
(BODY MATERIALS) INOX PN 40
(BALL MATERIALS) INOX
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +120C

SIZE		1/4	3/8	1/2
PN		40	40	40
CODICE		MVSXMF-1/4	MVSXMF-3/8	MVSXMF-1/2

BALL VALVES INOX

2 WAY BALL VALVE F/F VSXFF



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) INOX PN 64
(BALL MATERIALS) INOX316
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +180C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	63	63	63	63	63	63
CODICE	VSXFF-1/4	VSXFF-3/8	VSXFF-1/2	VSXFF-3/4	VSXFF-1	VSXFF-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	63	63	63	63	63	
CODICE	VSXFF-11/2	VSXFF-2	VSXFF-21/2	VSXFF-3	VSXFF-4	

2 WAY BALL VALVE VSX64 - MAN - MM-MF



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) IN0X 316L PN 100
(BALL MATERIALS) INOX316
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C
(OPTIONS)
MALE / FAMALE MF
MALE/MALE MM

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	100	100	100	100	64	64
CODICE	VSX64MAN-1/4	VSX64MAN-3/8	VSX64MAN-1/2	VSX64MAN-3/4	VSX64MAN-1	VSX64MAN-11/4
SIZE	1 1/2	2	2 1/2	3		
PN	64	40	40	40		
CODICE	VSX64MAN-11/2	VSX64MAN-2	VSX64MAN-21/2	VSX64MAN-3		

2 WAY BALL VALVE VSX52MAN



Specifications

(SIZE RANGE) DN08 TO DN25, 1/4" TO 1"
(BODY MATERIALS) IN0X 316L PN 200
(BALL MATERIALS) INOX316
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

SIZE	1/4	3/8	1/2	3/4	1	
PN	200	200	200	200	200	
CODICE	VSX52MAN-1/4	VSX52MAN-3/8	VSX52MAN-1/2	VSX52MAN-3/4	VSX52MAN-1	

2 WAY BALL VALVE VSX72MAN CLAMP



Specifications

(SIZE RANGE) DN10 TO DN100
1"-4"
(BODY MATERIALS) IN0X 304-316 PN 16
(BALL MATERIALS) INOX304 -316
(SEALING MATERIALS) PTFE
(TEMPERATURE) -10 +100C

ART. VSX72MAN VALVOLA A SFERA CLAMP BS AISI 304 BALL VALVES
ART. VSX73MAN VALVOLA A SFERA CLAMP BS AISI 316 BALL VALVES

SUFFIX: C FOR PTFE+FKM E FOR PTFE+EPDM

SIZE	1	11/2	2	21/2	3	4
PN	16	16	16	16	10	10
CODICE	VSX72MAN-1	VSX72MAN-11/2	VSX72MAN-2	VSX72MAN-21/2	VSX72MAN-3	VSX72MAN-4

ART. VSX72AMAN VALVOLA A SFERA CLAMP ISO2852 AISI 304 BALL VALVES
ART. VSX73AMAN VALVOLA A SFERA CLAMP ISO2852 AISI 316 BALL VALVES

SIZE	10/10	10/15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX72AMAN-10	VSX72AMAN-15	VSX72AMAN-20	VSX72AMAN-25	VSX72AMAN-32	VSX72AMAN-40
SIZE	50	65	80	100		
PN	16	10	10	10		
CODICE	VSX72AMAN-50	VSX72AMAN-65	VSX72AMAN-80	VSX72AMAN-100		

ART. VSX72BMAN **VALVOLA A SFERA CLAMP DIN32676 AISI 304** **BALL VALVES**
ART. VSX73BMAN **VALVOLA A SFERA CLAMP DIN32676 AISI 316** **BALL VALVES**

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX72BMAN-10	VSX72BMAN-15	VSX72BMAN-20	VSX72BMAN-25	VSX72BMAN-32	VSX72BMAN-40
SIZE	50	65	80	100		
PN	16	10	10	10		
CODICE	VSX72BMAN-50	VSX72BMAN-65	VSX72BMAN-80	VSX72BMAN-100		

2 WAY BALL VALVE VSX78MAN DIN 11851 MF - MM



Specifications

- (SIZE RANGE) DN10 TO DN100
- (BODY MATERIALS) IN0X 304 -316 PN 16
- (BALL MATERIALS) INOX304-316
- (SEALING MATERIALS) PTFE
- (TEMPERATURE) -10 +100C

ART. VSX78MAN **VALVOLA A SFERA DIN 11851 AISI 304** **BALL VALVES**
ART. VSX79MAN **VALVOLA A SFERA DIN 11851 AISI 316** **BALL VALVES**

SUFFIX: C FOR PTFE+FKM E FOR PTFE+EPDM

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX78MAN-10	VSX78MAN-15	VSX78MAN-20	VSX78MAN-25	VSX78MAN-32	VSX78MAN-40
SIZE	50-45	50	60	65	80	100
PN	16	10	10	6	6	6
CODICE	VSX78MAN-45	VSX78MAN-50	VSX78MAN-60	VSX78MAN-65	VSX78MAN-80	VSX78MAN-100

ART. VSX78MFMAN **VALVOLA A SFERA DIN 11851 AISI 304** **BALL VALVES**
ART. VSX79MFMAN **VALVOLA A SFERA DIN 11851 AISI 316** **BALL VALVES**

SIZE	10	15	20	25	32	40
PN	16	16	16	16	16	16
CODICE	VSX78MFMAN-10	VSX78MFMAN-15	VSX78MFMAN-20	VSX78MFMAN-25	VSX78MFMAN-32	VSX78MFMAN-40
SIZE	50-45	50	60	65	80	
PN	16	10	10	6	6	
CODICE	VSX78MFMAN-45	VSX78MFMAN-50	VSX78MFMAN-60	VSX78MFMAN-65	VSX78MFMAN-80	

2 WAY BALL VALVE VSX74MAN



Specifications

- (SIZE RANGE)1/4" TO 4" BSP
- (BODY MATERIALS) IN0X 304 -316 PN 16
- (BALL MATERIALS) INOX304-316
- (SEALING MATERIALS) PTFE
- (TEMPERATURE) -10 +100C

ART. VSX74MAN **VALVOLA A SFERA AISI 304 FILETTATA GAS** **BALL VALVES**
ART. VSX75MAN **VALVOLA A SFERA AISI 316 FILETTATA GAS** **BALL VALVES**

SUFFIX: C FOR PTFE+FKM E FOR PTFE+EPDM

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
CODICE	VSX74MAN-1/4	VSX74MAN-3/8	VSX74MAN-1/2	VSX74MAN-3/4	VSX74MAN-1	VSX74MAN-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	16	16	10	10	10	
CODICE	VSX74MAN-11/2	VSX74MAN-2	VSX74MAN-21/2	VSX74MAN-3	VSX74MAN-4	

ON DEMAND

2 WAY BALL VALVE VSX20MAN - GAROLLA



Specifications

- (SIZE RANGE) DN32 TO DN100
- (BODY MATERIALS) IN0X 316L PN 40
- (BALL MATERIALS) INOX316
- (SEALING MATERIALS) PTFE
- (TEMPERATURE) -20 +160C

3 WAY BALL VALVE VSX45LMAN



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) IN0X 316L PN 40
(BALL MATERIALS) INOX316 L PORT
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

3 WAY BALL VALVE VSX42MAN L OR T



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 4"
(BODY MATERIALS) IN0X 316L PN 100
(BALL MATERIALS) INOX316 L OR T PORT
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

2 WAY BALL VALVE FLANGED VSX60MAN



Specifications

(SIZE RANGE) DN10 TO D100,
(BODY MATERIALS) INOX PN 40
(BALL MATERIALS) INOX316L
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

3 WAY BALL VALVE FLANGED T OR L VSX46MAN



Specifications

(SIZE RANGE) DN10 TO D100,
(BODY MATERIALS) INOX PN 40
(BALL MATERIALS) INOX316L
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +160C

F/F USX PIN VALVES



Specifications

(SIZE RANGE) 1/4" TO 11/2"
(BODY MATERIALS) INOX 316L PN 100
(TEMPERATURE) -20 +160C

F/F USX-PP PIN VALVES PANELING



Specifications

(SIZE RANGE) 1/4" TO 11/2"
(BODY MATERIALS) INOX 316L PN 100
(TEMPERATURE) -20 +160C

2 WAY BALL VALVE F/F BUTTERFLY VSXFF - F

PRODOTTO IMPORT IMPORTATO



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 1"
(BODY MATERIALS) INOX PN 64
(BALL MATERIALS) INOX316
(SEALING MATERIALS) PTFE
(TEMPERATURE) -20 +180C

BUTTERFLY SANITARY VALVES INOX

BUTTERFLY VALVES CLAMP VFX10MAN - VFX15MAN



Specifications

(SIZE RANGE) DN15 TO D100,1/2-4
(BODY MATERIALS) INOX PN 6
(BALL MATERIALS) INOX304/316
(SEALING MATERIALS) MSV-FKM-EPDM
(TEMPERATURE) -50 +200C

ART. VFX10BMAN CLAMP BS AISI 304
ART. VFX15BMAN CLAMP BS AISI 316

SUFFIX: S = SILICONE – MVQ F = VITON FKM E = EPDM

BUTTERFLY VALVES

SIZE	1/2	3/4	1	1 1/2	2	1 1/2
PN	7	7	7	7	7	7
CODICE	VFX10BMAN-1/2	VFX10BMAN-3/4	VFX10BMAN-1	VFX10BMAN-11/2	VFX10BMAN-2	VFX10BMAN-21/2
SIZE	3	4				
PN	7	7				
COD	VFX10BMAN-3	VFX10BMAN-4				

ART. VFX10IMAN CLAMP ISO 2852 AISI 304
ART. VFX15IMAN CLAMP ISO 2852 AISI 316

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX10IMAN-15	VFX10IMAN-20	VFX10IMAN-25	VFX10IMAN-32	VFX10IMAN-40	VFX10IMAN-50
SIZE	65	80	100			
PN	7	7	7			
COD	VFX10IMAN-65	VFX10IMAN-80	VFX10IMAN-100			

ART. VFX10MAN CLAMP DIN 32676 AISI 304
ART. VSX15MAN CLAMP DIN 32676 AISI 316

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX10MAN-15	VFX10MAN-20	VFX10MAN-25	VFX10MAN-32	VFX10MAN-40	VFX10MAN-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX10MAN-65	VFX10MAN-80	VFX10MAN-100			

BUTTERFLY VALVES DIN 11851 VFX20DMAN - VFX25DMAN



Specifications

(SIZE RANGE) DN15 TO D100,
(BODY MATERIALS) INOX PN 6
(BALL MATERIALS) INOX304/316
(SEALING MATERIALS) MSV-FKM-EPDM
(TEMPERATURE) -50 +200C

ART. VFX20DMAN DIN11851 AISI 304
ART. VFX25DMAN DIN11851 AISI 316

SUFFIX: S = SILICONE – MVQ F = VITON FKM E = EPDM

BUTTERFLY VALVES WITH BRACKET

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX20DMAN-15	VFX20DMAN-20	VFX20DMAN-25	VFX20DMAN-32	VFX20DMAN-40	VFX20DMAN-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX20DMAN-65	VFX20DMAN-80	VFX20DMAN-100			

ART. VFX20MMAN DIN MF 11851 AISI 304
ART. VFX25MMAN DIN MF 11851AISI 316

SIZE	15	20	25	32	40	50
PN	7	7	7	7	7	7
CODICE	VFX20MMAN-15	VFX20MMAN-20	VFX20MMAN-25	VFX20MMAN-32	VFX20MMAN-40	VFX20MMAN-50
SIZE	65	80	100			
PN	7	7	7			
CODICE	VFX20MMAN-65	VFX20MMAN-80	VFX20MMAN-100			

BUTTERFLY VALVES ISO228 BSP VFX30MAN - VFX35MAN



Specifications

(SIZE RANGE) DN25 TO D100,
(BODY MATERIALS) INOX PN 6
(BALL MATERIALS) INOX304/316
(SEALING MATERIALS) MSV-FKM-EPDM
(TEMPERATURE) -50 +200C

ART. VFX30MAN **BSP AISI 304** **BALL VALVES**
ART. VFX35MAN **BSP AISI 316** **BALL VALVES**

SIZE	1/2	3/4	1	1 1/2	2	2 1/2
PN	7	7	7	7	7	7
CODICE	VFX30-1/2MAN	VFX30-3/4MAN	VFX30-1	VFX30-11/2MAN	VFX30-2MAN	VFX30-21/2MAN
SIZE	3	4				
PN	7	7				
CODICE	VFX30-3MAN	VFX30-4MAN				

HANDLE FOR BUTTERFLY VALVES



100% INOX COLD SWAGED HANDLE 1.110.99.00-A



MULTIPOSITIONS-LOCKING HANDLE INOX 1.160.99.00-A
BACHELITE 1.160.99.10-A



HANDLE WITH TRACTION RELEASER INOX 1.150.99.10-A
BACHELITE BLUE 1.150.99.00-A

ON DEMAND

BUTTERFLY VALVES WELDED VFX40MAN - VFX45MAN



Specifications

(SIZE RANGE) DN25 TO D100
(BODY MATERIALS) INOX PN 6
(BALL MATERIALS) INOX304/316
(SEALING MATERIALS) MSV-FKM-EPDM
(TEMPERATURE) -50 +200C

STRAINER INOX

Y STRAINER VSYX - 657



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 2"
(BODY MATERIALS) INOX PN 50
(MESH) INOX
(TEMPERATURE) -20 +180C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	50	50
CODICE	VSYX-657-1/4	VSYX-657-3/8	VSYX-657-1/2	VSYX-657-3/4	VSYX-657-1	VSYX-657-11/4
SIZE	1 1/2	2				
PN	50	50				
CODICE	VSYX-657-11/2	VSYX-657-2				

CHECK VALVES INOX

Y CHECK VALVES XYDC



Specifications

(SIZE RANGE) DN08 TO DN100, 1/4" TO 2"
(BODY MATERIALS) INOX PN 50
(TEMPERATURE) -20 +180C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	50	50	50	50	50	50
CODICE	XYDC-1/4	XYDC-3/8	XYDC-1/2	XYDC-3/4	XYDC-1	XYDC-11/4
SIZE	1 1/2	2				
PN	50	50				
CODICE	XYDC-11/2	XYDC-2				

DISC WAFER CAM656



Specifications

(SIZE RANGE) DN15 TO DN200,
(BODY MATERIALS) INOX PN 40
(TEMPERATURE) -20 +350C

SIZE	15	20	25	32	40	50
PN	40	40	40	40	40	40
CODICE	CAM656-15	CAM656-20	CAM656-25	CAM656-32	CAM656-40	CAM656-50
SIZE	65	80	100	125	150	200
PN	40	40	40	40	40	40
CODICE	CAM656-65	CAM656-80	CAM656-100	CAM656-125	CAM656-150	CAM656-200

SWING CHECK VALVES CAM654



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) INOX PN 16
(TEMPERATURE) -20 +180C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	16	16	16	16	16	16
CODICE	CAM654-1/4	CAM654-3/8	CAM654-1/2	CAM654-3/4	CAM654-1	CAM654-11/4
SIZE	1 1/2	2				
PN	16	16				
CODICE	CAM654-11/2	CAM654-2				

DUAL - PLATE WAFER D6.622



Specifications

(SIZE RANGE) D40 TO DN600,
(BODY MATERIALS) INOX PN 16
(SEAL) FKM
(TEMPERATURE) -20 +100C
OPTIONS
(SEAL) METAL/METAL D6.626

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	D6.622-40	D6.622-50	D6.622-65	D6.622-80	D6.622-100	D6.622-125
SIZE	150	200	250	300	350	400
PN	16	16	16	16	16	16
CODICE	D6.622-150	D6.622-200	D6.622-250	D6.622-300	D6.622-350	D6.622-400

SWING WAFER CAM687 WITHOUT SPRING



Specifications

(SIZE RANGE) DN32 TO DN300,
(BODY MATERIALS) INOX PN 16
(SEAL) FKM
(TEMPERATURE) -20 +150C

SIZE	32	40	50	65	80	100
PN	16	16	16	16	16	16
CODICE	CAM687-32	CAM687-40	CAM687-50	CAM687-65	CAM687-80	CAM687-100
SIZE	125	150	200	250	300	
PN	16	16	16	16	16	16
CODICE	CAM687-125	CAM687-150	CAM687-200	CAM687-250	CAM687-300	

SWING WAFER M6.622 WITH SPRING



Specifications

(SIZE RANGE) DN32 TO DN300,
(BODY MATERIALS) INOX PN 16
(SEAL) FKM
(TEMPERATURE) -20 +150C

SIZE	32	40	50	65	80	100
PN	16	16	16	16	16	16
CODICE	M6.622-32	M6.622-40	M6.622-50	M6.622-65	M6.622-80	M6.622-100
SIZE	125	150	200	250	300	
PN	16	16	16	16	16	
CODICE	M6.622-125	M6.622-150	M6.622-200	M6.622-250	M6.622-300	

CHECK VALVES XDC



Specifications

(SIZE RANGE)1/8-1/2,
(BODY MATERIALS) INOX316L PN 10
(SEAL) FKM
(TEMPERATURE) -20 +150C

SIZE	1/8	1/4	3/8	1/2
PN	10	10	10	10
CODICE	XDC-1/8	XDC-1/4	XDC-3/8	XDC-1/2

CHECK VALVES CAM655



Specifications

(SIZE RANGE) 1/4- 4",
(BODY MATERIALS) INOX PN 64
(SEAL) PTFE
(TEMPERATURE) -25 +180C

SIZE	1/4	3/8	1/2	3/4	1	1 1/4
PN	64	64	64	64	64	64
CODICE	CAM655-1/4	CAM655-3/8	CAM655-1/2	CAM655-3/4	CAM655-1	CAM655-11/4
SIZE	1 1/2	2	2 1/2	3	4	
PN	64	64	64	64	64	
CODICE	CAM655-11/2	CAM655-2	CAM655-21/2	CAM655-3	CAM655-4	

SWIVEL - BELLOW - GLOBE VALVES CAST IRON

SWIVEL GLOBE SHUT - OFF VALVE CAM281



Specifications

(SIZE RANGE) DN15 TO DN250
(BODY MATERIALS) CAST IRON PN 16
(PAKING) GRAPHITE
(TEMPERATURE) -10 +120C

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAM281-15	CAM281-20	CAM281-25	CAM281-32	CAM281-40	CAM281-50
SIZE	65	80	100	125	150	200
PN	16	16	16	16	16	16
CODICE	CAM281-65	CAM281-80	CAM281-100	CAM281-125	CAM281-150	CAM281-200

BELLOW GLOBE SHUT - OFF VALVE CAM288



Specifications

(SIZE RANGE) DN15 TO DN200
(BODY MATERIALS) CAST IRON PN 16
(PAKING) GRAPHITE
(TEMPERATURE) -10 +350C

SIZE	15	20	25	32	40	50
PN	16	16	16	16	16	16
CODICE	CAM288-15	CAM288-20	CAM288-25	CAM288-32	CAM288-40	CAM288-50
SIZE	65	80	100	125	150	200
PN	16	16	16	16	16	16
CODICE	CAM288-65	CAM288-80	CAM288-100	CAM288-125	CAM288-150	CAM288-200

CHECK VALVES CAST IRON

CAST IRON SPRIN CHECK VALVES SERIE F5



Specifications

(SIZE RANGE) DN 16 TO DN300,
(BODY MATERIALS) CAST IRON PN 16
(TRIM MATERIALS) BRASS-AISI316
(SEALING MATERIALS) NBR – FKM - RUBBER
(TEMPERATURE) -10 +70C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	F5.000-40	F5.000-50	F5.000-65	F5.000-80	F5.000-100	F5.000-125
SIZE	150	200	250	300		
PN	16	16	16	16		
CODICE	F5.000-150	F5.000-200	F5.000-250	F5.000-300		

THREADED CHECK VALVES SERIE T5.000



Specifications

(SIZE RANGE) DN50 TO DN100,
(BODY MATERIALS) CAST IRON PN16
(SEALING MATERIALS) NBR
(TRIM MATERIALS) BRASS
(TEMPERATURE) -10 +70C
OPTIONS
(SEALING MATERIALS) T5.002 FKM

SIZE	2	2 1/2	3	4
PN	16	16	16	16
CODICE	T5.000-2	T5.000-21/2	T5.000-3	T5.000-4

DISC WAFER CHECK VALVES W6.020



Specifications

(SIZE RANGE) DN32 TO DN125,
(BODY MATERIALS) CAST IRON PN16
(SEALING MATERIALS) NBR
(DISK MATERIALS) INOX
(TEMPERATURE) -10 +70C

SIZE			25	32	40	50
PN			16	16	16	16
CODICE			W6.020-25	W6.020-32	W6.020-40	W6.020-50
SIZE	65	80	100	125	150	
PN	16	16	16	16	16	
CODICE	W6.020-65	W6.020-80	W6.020-100	W6.020-125	W6.020-150	

DUAL PLATE WAFER CHECK VALVES D6.021



Specifications

(SIZE RANGE) DN16 TO DN600,
(BODY MATERIALS) CAST IRON PN16
(SEALING MATERIALS) EPDM
(DISK MATERIALS) INOX 316
(TEMPERATURE) -10 +70C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	D6.021-40	D6.021-50	D6.021-65	D6.021-80	D6.021-100	D6.021-125
SIZE	150	200	250	300	350	400
PN	16	16	16	16	16	16
CODICE	D6.021-150	D6.021-200	D6.021-250	D6.021-300	D6.021-350	D6.021-400

DUAL PLATE WAFER CHECK VALVES D6.031



Specifications

(SIZE RANGE) DN16 TO DN600,
(BODY MATERIALS) CAST IRON PN16
(SEALING MATERIALS) EPDM
(DISK MATERIALS) IRON
(TEMPERATURE) -10 +70C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	D6.031-40	D6.031-50	D6.031-65	D6.031-80	D6.031-100	D6.031-125
SIZE	150	200	250	300	350	400
PN	16	16	16	16	16	16
CODICE	D6.031-150	D6.031-200	D6.031-250	D6.031-300	D6.031-350	D6.031-400

BALL CHECK INSPECTION COVER F7.100



Specifications

(SIZE RANGE) DN50 TO DN500,
(BODY MATERIALS) CAST IRON PN16
(BALL MATERIALS) NBR
(TEMPERATURE) -10 +70C

SIZE		50	65	80	100	125
PN		16	16	16	16	16
CODICE		F7.100-50	F7.100-65	F7.100-80	F7.100-100	F7.100-125
SIZE	150	200	250	300	350	400
PN	16	16	16	16	16	16
CODICE	F7.100-150	F7.100-200	F7.100-250	F7.100-300	F7.100-350	F7.100-400

BALL CHECK INSPECTION COVER T7.100



Specifications

(SIZE RANGE) DN25 TO DN50 THREADED
(BODY MATERIALS) CAST IRON PN16
(BALL MATERIALS) NBR
(TEMPERATURE) -10 +70C

SIZE	1	1 1/4	1 1/2	2	2 1/2	3
PN	16	16	16	16	16	16
CODICE	T7.100-1	T7.100-11/4	T7.100-11/2	T7.100-2	T7.100-21/2	T7.100-3

SWING WAFER CHECK VALVE S6.000



Specifications

(SIZE RANGE) DN40 TO DN300,
(BODY MATERIALS) CAST IRON PN16/10
(SEALING MATERIALS) EPDM
(TEMPERATURE) -10 +100C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	S6.000-40	S6.000-50	S6.000-65	S6.000-80	S6.000-100	S6.000-125
SIZE	150	200	250	300		
PN	16	16	16	16		
CODICE	S6.000-150	S6.000-200	S6.000-250	S6.000-300		

VENTURI CHECK VALVE SERIE M16.000



Specifications

(SIZE RANGE) DN40 TO DN600,
(BODY MATERIALS) CAST IRON PN16
(SHUTTER MATERIALS) AISI 304
(TEMPERATURE) 0 +90C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	M16.000-40	M16.000-50	M16.000-65	M16.000-80	M16.000-100	M16.000-125
SIZE	150	200	250	300	350	400
PN	16	16	16	16		
CODICE	M16.000-150	M16.000-200	M16.000-250	M16.000-300	M16.000-350	M16.000-400

SOFT GATE VALVES DUCTILE IRON

SOFT SEATED GATE VALVE 20.900



Specifications

(SIZE RANGE) DN16 TO DN300
(BODY MATERIALS) DUCTIL IRON PN 16
DN200-DN250-DN300 PN16/PN10
(STEAM) AISI 420
(SEALING MATERIALS) EPDM
(TEMPERATURE) -10 +85C
OPTIONS
(SEALING MATERIALS) 20.901 NBR

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	20.900-40	20.900-50	20.900-65	20.900-80	20.900-100	20.900-125
SIZE	150	200	250	300		
PN	16	16/10	16/10	16/10		
CODICE	20.900-150	20.900-200	20.900-250	20.900-300		

SOFT SEATED GATE VALVE 20E900



Specifications

(SIZE RANGE) DN16 TO DN300
(BODY MATERIALS) DUCTIL IRON PN 16
(STEAM) AISI 420
(SEALING MATERIALS) EPDM
(TEMPERATURE) -10 +85C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	20E900-40	20E900-50	20E900-65	20E900-80	20E900-100	20E900-125
SIZE	150	200	250	300		
PN	16	16	16	16		
CODICE	20E900-150	20E900-200	20E900-250	20E900-300		

SOFT SEATED GATE VALVE 21.900



Specifications

(SIZE RANGE) DN16 TO DN300
(BODY MATERIALS) DUCTIL IRON
(STEAM) AISI 420
(SEALING MATERIALS) EPDM
(TEMPERATURE) -10 +85C

SIZE	40	50	65	80	100	125
PN	16	16	16	16	16	16
CODICE	21.900-40	21.900-50	21.900-65	21.900-80	21.900-100	21.900-125
SIZE	150	200	250	300		
PN	16	16	16	16		
CODICE	21.900-150	21.900-200	21.900-250	21.900-300		

2 WAY BALL VALVE C160MAN



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) A105 PN 500
(DISC MATERIALS) A105
(SEALING MATERIALS) POM
(TEMPERATURE) -20 +100C

ART.C160MAN VALVOLA A SFERA A105 – BALL VALVES

SIZE	1/4	3/8	1/2	3/4	1	
PN	500	500	500	400	400	
CODICE	C160MAN-1/4	C160MAN-3/8	C160MAN-1/2	C160MAN-3/4	C160MAN-1	

3 WAY BALL VALVE C161LMAN - C162TMAN



Specifications

(SIZE RANGE) DN08 TO DN50, 1/4" TO 2"
(BODY MATERIALS) A105 PN 500
(DISC MATERIALS) A105
(SEALING MATERIALS) POM
(TEMPERATURE) -20 +100C

ART.C161LMAN-162TMAN VALVOLA A SFERA A105 – BALL VALVES

SIZE	1/4	3/8	1/2	3/4	1	
PN	500	500	500	400	400	
161-L	C161LMAN-1/4	C161LMAN-3/8	C161LMAN-1/2	C161LMAN-3/4	C161LMAN-1	
162-T	C162TMAN-1/4	C162TMAN-3/8	C162TMAN-1/2	C162TMAN-3/4	C162TMAN-1	

RUBBER

SOLID RUBBER JOINT EPDM CAM287



Specifications

(SIZE RANGE) DN32 TO DN150,
(BODY MATERIALS) EPDM PN10/16

SIZE	32	40	50	65	80	100
PN	16	16	16	16	16	16
CODICE	CAM287-32	CAM287-40	CAM287-50	CAM287-65	CAM287-80	CAM287-100
SIZE	125	150				
PN	16	16				
CODICE	CAM287-125	CAM287-150				

FLANGED RUBBER FLEXIBLE JOINT CAM697



Specifications

(SIZE RANGE) DN32 TO DN300,
(BODY MATERIALS) EPDM PN 16

SIZE	32	40	50	65	80	100
PN	16	16	16	16	16	16
CODICE	CAM287-32	CAM287-40	CAM287-50	CAM287-65	CAM287-80	CAM287-100
SIZE	125	150				
PN	16	16				
CODICE	CAM287-125	CAM287-150				

THREADED RUBBER JOINT CAM 696



Specifications

(SIZE RANGE) 3/4 TO 3",
(BODY MATERIALS) EPDM PN10

SIZE				3/4	1	1 1/4
PN				16	16	16
CODICE				CAM696-3/4	CAM696-1	CAM696-11/4
SIZE	1 1/2	2	2 1/2	3		
PN	16	16	16	16		
CODICE	CAM696-11/2	CAM696-2	CAM696-21/2	CAM696-3		

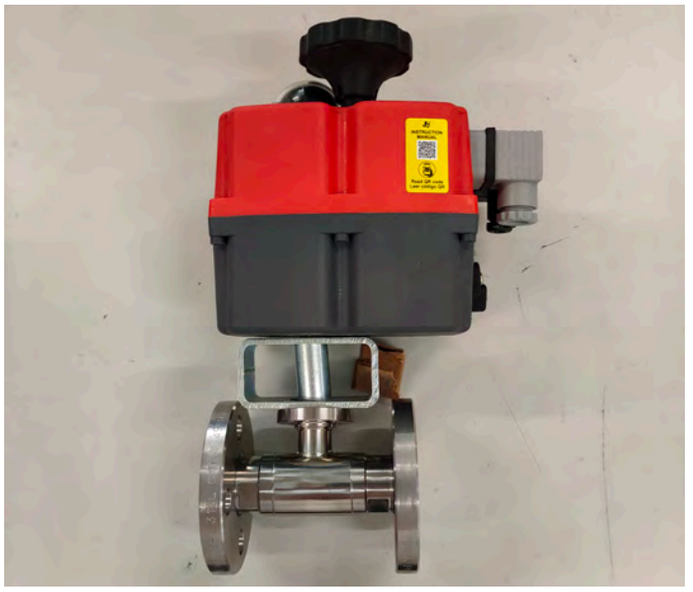

CAM
AT 40 DX
4-M5
2-G1/4
A
B




CAM


CAM






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TECNICAL INFORMATION

AISI 316 and CF-8M Stainless steel. Magnetic test.

Regarding the magnetic test used to discriminate AISI 316 Stainless Steel from other types of SS (typically from AISI 304), must be considered that this test is efficient only for product obtained by forging or hot forming (rolling, extrusion, etc.); castings grade ASTM A351 CF-8M, which can be considered equivalent to AISI 316 for corrosion resistance and mechanical properties can show a magnetic behavior (magnet sticks).

To clarify what said above we shall consider that magnetic behavior depends on steel microstructure. Austenitic microstructure means non-magnetic material (magnet does not stick), while a steel with ferritic microstructure shows magnetic properties (magnet sticks).

Grade 316 stainless steel is obtained from hot forming or forging (e.g. tubes, bars, plates, sheets)and has a composition optimized to produce a fully austenitic microstructure, because this type of microstructure is more ductile and this makes the forming process easier and lesser energy demanding. Hardening and grain sizes refining given by forming process increase mechanical strength and corrosion resistance, which are lower for austenitic structures compared to ferritic ones, due mainly to lower Cr content.

For casting grade CF-8M, composition is slightly different compared to 316, with lower content of Nickel and Manganese (which have and austenitizing effect), and an higher content of Chrome (which promote the formation of a ferritic structure), and therefore in A351 CF-8M cast products a certain amount of ferrite is present (5-20%). Ferrite is useful because it increase mechanical strength and corrosion resistance, and helps to prevent cracks formation during material solidification, cooling and shrinkage. On the other hand this makes the material magnetic.

For comparISOn the tipical chemical composition of AISI 316 and CF-8M

	Carbon C	Manganese Mn	Silicone Si	Phospor P	Sulphur S	Nickel Ni	Chrome Cr	Molybdenum Mo
AISI 316	0.08 max	2.00 max	1.00 max	0.045 max	0.03 max	10-14	16-18	2-3
CF-8M	0.08 max	1.50 max	1.50 max	0.040 max	0.04 max	9-12	18-21	2-3

Acciai inox AISI 316 e CF-8M. Caratterizzazione. Prova della calamita

Riguardo alla prova della calamita per distinguere l'acciaio inox AISI 316 da altri tipi di acciaio inossidabile (tipicamente dall'AISI 304) occorre considerare che questa prova è valida solo su prodotti ottenuti per formatura a caldo (trafilatura, laminazione estrusione) o forgiatura; su particolari ottenuti da fusione ad esempio secondo lo standard ASTM A351 CF8-M, ha caratteristiche similari per quanto riguarda resistenza meccanica e alla corrosione, ed è talvolta definito genericamente "316" è possibile riscontrare comunque un comportamento magnetico e ciò può portare ad avviare reclami o scartare il materiale anche in presenza di materiale conforme.

Prima di chiarire quanto detto sopra occorre considerare che il comportamento magnetico o meno dipende dalla microstruttura. Se austenitica il comportamento è non magnetico, mentre se ferritica (in tutto o in parte) si riscontra un comportamento magnetico.

L'acciaio inox tipo 316 propriamente detto è quello ottenuto per formatura o forgiatura, quindi per prodotti come barre, tubolari, piatti, lamiere etc. Gli acciai di grado 316 per lavorazione a caldo hanno una composizione bilanciata in modo da renderli completamente austenitici; questo perché la microstruttura austenitica è più duttile e meno dura è ciò rende le lavorazioni per deformazione plastica più facili ed energicamente più convenienti. L'incrudimento del materiale e l'affinamento del grano cristallino, propri della lavorazione per deformazione, migliorano la minor resistenza meccanica ed alla corrosione che è minore per la microstruttura austenitica rispetto alla ferritica, dovuto in larga parte al minor contenuto di Cromo.

Per il grado da fusione CF-8M, invece, la composizione è differente rispetto al grado 316, con un minor contenuto di Nichel e Manganese (elementi di lega con effetto austenitizzante) ed un maggior contenuto di Cromo (elemento di lega che favorisce la formazione di ferrite), e pertanto nei particolari fusi è presente una percentuale di ferrite che può andare dal 5 al 20%. La presenza di ferrite è utile perché oltre a migliorare la resistenza meccanica e la resistenza alla corrosione, riduce il rischi di formazione di cricche e fessurazioni durante il raffreddamento dei pezzi. Questo d'altra parte rende il prodotto da fusione magnetico.

A titolo esemplificativo riportiamo per confronto le composizioni tipiche per i due tipi.

	Carbonio C	Manganese Mn	Silicio Si	Fosforo P	Zolfo S	Nickel Ni	Cromo Cr	Molibdeno Mo
AISI 316	0.08 max	2.00 max	1.00 max	0.045 max	0.03 max	10-14	16-18	2-3
CF-8M	0.08 max	1.50 max	1.50 max	0.040 max	0.04 max	9-12	18-21	2-3

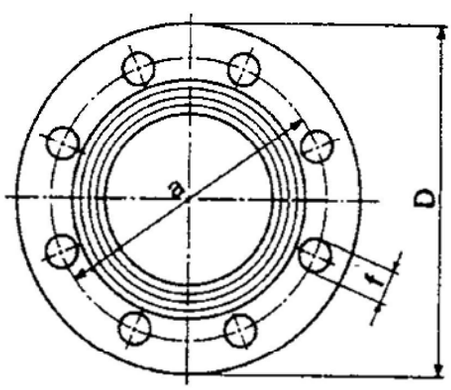
Dimensioni di accoppiamento (in mm) delle flange pe pressioni nominali

FLANGE UNI-DIN

	PN6				PN10				PN16				PN25				PN40				PN63				PN100				PN160			
		FORI				FORI				FORI				FORI				FORI				FORI				FORI				FORI		
DN	D	N.	f	a	D	N.	f	a	D	N.	f	a	D	N.	f	a	D	N.	f	a	D	N.	f	a	D	N.	f	a	D	N.	f	a
10	75	4	11	50	90	4	14	60	90	4	14	60	90	4	14	60	90	4	14	60	100	4	14	70	100	4	14	70	100	4	14	70
15	80	4	11	55	95	4	14	65	95	4	14	65	95	4	14	65	95	4	14	65	105	4	14	75	105	4	14	75	105	4	14	75
20	90	4	11	65	105	4	14	75	105	4	14	75	105	4	14	75	105	4	14	75	130	4	18	90	130	4	18	90	130	4	18	90
25	100	4	11	75	115	4	14	85	115	4	14	85	115	4	14	85	115	4	14	85	140	4	18	100	140	4	18	100	140	4	18	100
32	120	4	14	90	140	4	18	100	140	4	18	100	140	4	18	100	140	4	18	100	155	4	22	110	155	4	22	110	155	4	22	110
40	130	4	14	100	150	4	18	110	150	4	18	110	150	4	18	110	150	4	18	110	170	4	22	125	170	4	22	125	170	4	22	125
50	140	4	14	110	165	4	18	125	165	4	18	125	165	4	18	125	165	4	18	125	180	4	22	135	195	4	25	145	195	4	25	145
65	160	4	14	130	185	4	18	145	185	4	18	145	185	8	18	145	185	8	18	145	205	8	22	160	220	8	25	170	220	8	25	170
80	190	4	18	150	200	8	18	160	200	8	18	160	200	8	18	160	200	8	18	160	215	8	22	170	230	8	25	180	230	8	25	180
100	210	4	18	170	220	8	18	180	220	8	18	180	235	8	22	190	235	8	22	190	250	8	25	200	265	8	30	210	265	8	30	210
125	240	8	18	200	250	8	18	210	250	8	18	210	270	8	26	220	270	8	26	220	295	8	30	240	315	8	33	250	315	8	33	250
150	265	8	18	225	285	8	22	240	285	8	22	240	300	8	26	250	300	8	26	250	345	8	33	280	355	12	33	290	355	12	33	290
200	320	8	18	280	340	8	22	295	340	12	22	295	360	12	26	310	375	12	30	320	415	12	36	345	430	12	36	360	430	12	36	360
250	375	12	18	335	395	12	22	350	405	12	26	355	425	12	30	370	450	12	33	385	470	12	36	400	505	12	39	430	515	12	42	430
300	440	12	22	395	445	12	22	400	460	12	26	410	485	16	30	430	515	16	33	450	530	16	36	460	585	16	42	500	585	16	42	500
350	490	12	22	445	505	16	22	460	520	16	26	470	555	16	33	490	580	16	36	510	600	16	39	525	655	16	48	560				
400	540	16	22	495	565	16	26	515	580	16	30	525	620	16	36	550	660	16	39	585	670	16	42	585	715	16	48	620				
(450)	595	16	22	550	615	20	26	565	640	20	30	585	670	20	36	600	685	20	39	610	715	20	42	630	770	20	48	675				
500	645	20	22	600	670	20	26	620	715	20	33	650	730	20	36	660	755	20	42	670	800	20	48	705	870	20	56	760				
600	755	20	25	705	780	20	30	725	840	20	36	770	845	20	39	770	890	20	48	795	930	20	56	820	990	20	62	875				

FLANGE ANSI

	ANSI 150				ANSI 300				ANSI 600			
		FORI				FORI				FORI		
pollici	D	N.	f	a	D	N.	f	a	D	N.	f	a
1/2	89	4	16	61	95	4	16	67	95	4	16	67
3/4	98	4	16	70	118	4	19	83	118	4	19	83
1	108	4	16	80	124	4	19	89	124	4	19	89
11/4	118	4	16	89	133	4	19	99	133	4	19	99
11/2	127	4	16	99	156	4	23	115	156	4	23	115
2	150	4	19	121	165	8	19	127	165	8	19	127
21/2	178	4	19	140	191	8	23	150	191	8	23	150
3	191	4	19	153	210	8	23	169	210	8	23	169
4	229	8	19	191	254	8	23	200	273	8	26	216
5	254	8	23	216	279	8	23	235	330	8	29	267
6	279	8	23	242	318	12	23	270	356	12	29	293
8	343	8	23	299	381	12	26	331	419	12	32	350
10	406	12	26	362	445	16	29	388	508	16	35	432
12	483	12	26	432	521	16	32	451	559	20	35	489
14	533	12	29	477	584	20	32	515	603	20	38	527
16	597	16	29	540	648	20	35	572	686	20	42	604
18	635	16	32	578	711	24	35	629	743	20	45	654
20	699	20	32	635	775	24	35	686	813	24	45	724
24	813	20	35	750	914	24	42	813	940	24	51	839



Compatibilità chimica dei materiali rispetto alle sostanze chimiche indicate

Legenda
A Nessun effetto - Raccomandato
B Attacco leggero - Buono
C Attacco moderato - Modesto
D Attacco forte - Non adatto

	PTFE	NBR	VITON	EPDM	CR (NEOPRENE)	VMQ (SILICONE)	NORYL	GG25	GGG40	OTTONE	BRONZO	BRONZO ALLUMINIO	ACCIAIO CARBONIO	AISI 304	AISI 316
Acetilene	A	A	A	A	B	A		A	A	B	C	C	A	A	A
Acetone	A	D	D	A	C	D	D	B	A	A	A	A	B	A	A
Acidi Grassi	A	C	A	C	B	C	C	D	D	C	C	B	C	A	A
Acido Acetico	A	D	C	B	C	B	B	D	D	C	C	C	D	B	A
Acido Carbonico	A	B	A	A	A	A	A	D	D		C		D	A	B
Acido Citrico	A	D	A	A	A	A	A	D	D	C	C	B	C	A	A
Acido Cloridrico (20%)	A	C	A	A	C	C	D	D	D	D	C	A	D	D	D
Acido Cloridrico (37% Caldo)	A	D	B	C	D	C	D	D	D	D	C	B	D	D	D
Acido Cloridrico (37% Freddo)	A	C	A	C	C	C	D	D	D	D	C	A	D	D	D
Acido Fluoridrico (20%)	A	D	A	A	C	D		D	D	D	C		D	D	D
Acido Fluoridrico (75%)	A	D	A	C	C	D		D	D	D	C		D	D	D
Acido Fluoridrico (100% Freddo)	A	D	A	C	D	D		D	D	D	C		D	D	D
Acido Fluoridrico (100% Caldo)	A	D	B	D	D	D		D	D	D	C		D	D	D
Acido Formico	A	D	C	A	D	B	A	D	D	B	B	B	B	A	B
Acido Fosforico (40%)	A	D	A	B	D	D	A	D	D	D	C	D	C	B	A
Acido Fosforico (40-100%)	A	D	B	B	D	D	A	D	D	D	C	D	C	C	B
Acido Fosforico (Crudo)	A	D	A	B	D	D	A	C	D	D	C	D	C	D	C
Acido Nitrico (5-10%)	A	D	A	B	D	D	A	D	D	D	C	D	C	A	A
Acido Nitrico (20%)	A	D	A	D	D	D	A	D	D	D	C	D	C	A	A
Acido Nitrico (50%)	A	D	A	D	D	D	A	D	D	D	C	D	C	A	A
Acido Nitrico (Concentrato)	A	D	B	D	D	D	C	D	D	D	C	D	C	D	B
Acido Nitroso	A	D	B	D	D	D		D	D	D	C	D	D	A	A
Acido Solforico (10%)	A	C	A	D	C	C	A	D	D	D	B	B	C	C	C
Acido Solforico (10-75%)	A	D	A	D	C	D	B	D	D	D	B	B	C	C	C
Acido Solforico (75-100%)	A	D	B	D	D	D	D	D	D	D	B	B	C	C	C
Acido Solforoso	A	C	A	B	B	B		C	D	C	B	C	C	B	B
Acqua Ammoniacale	A	B	C	A	A	A	A	B	A	D		B	C	A	A
Acqua di Mare	A	A	A	A	B	A	A	D	D	C	B	A	D	A	A
Acqua di Piscina	A	B	A	A	C						A	A	A	A	A
Acqua distillata, demineralizzata, de-ionizzata	A	A	A	A	B	A	A	D	D	A	A		D	A	A
Acqua emulsionata (acqua bianca)	A	A	A	D	B	C		A	A	A	A	A	A	A	A
Acqua Saponata - Soluzioni di Sapone	A	A	A	A	B	A		B	B	A			A	A	A
Acque Acide	A	A	C	A	B	D	A	D	C	D	C		D	A	A
Acque Bianche (da Cartiera)	A		A		A									A	A
Alcol Etilico	A	A	A	B	A	A	A	B	A	B	A	B	B	A	A
Alcol Metilico	A	B	B	A	A	A	A	B	A	B	A	B	B	A	A
Alcol Propilico	A	A	A	A	A	A	A	B	B	A	A	B	B	A	A
Ammine	A	D	D	B	B	A		A	A	B			A	A	A
Ammoniaca (10%)	A	D	D	A	A	A	A	A	A	D	C	B	A	A	A
Ammoniaca, Anidra	A	B	D	A	A	A		B	D	D	A	B	C	B	A
Anilina	A	D	C	B	D	B	D	B	B	D	C	C	C	A	A
Antigelo	A	A	A	A	C	A	A		A					A	A
Bagni per Placcature: Argentatura	A	A	A	A	A	D									A
Bagni per Placcature: Cromatura	A	D	C	A	D	D									C
Bagni per Placcature: Nichelatura	A	A	A		A	D									C
Benzene	A	D	A	D	D	D	D	B	B	B	A	A	A	A	A
Benzina	A	C	A	D	D	D	D	B	A	A	A	A	B	A	A
Benzolo, Alcool Benzilico	A	D	A	B	B	B	A	B	A	B	A		B	A	A
Bicarbonato di Potassio	A	A	A	A	A	A	A	B	D	B	B	B	B	A	B
Bicarbonato di Sodio	A	A	A	A	A	A		C	C	B	B	A	C	A	A
Biossido di Carbonio	A	A	B	B	B	A	A	B	D	A	B		C	A	A
Biossido di Zolfo	A	D	A	A	B	B	D		A	D	B		C	A	A
Butano	A	A	A	D	B	A	D	A	C	A	A	A	A	A	A
Candeggina	A	C	A	B	B	D			D					A	A
Carburante Avio (JP3, JP4, JP5)	A	A	A	D	D	D	D	B	A	A	B	A	A	A	A
Cherosene	A	A	A	D	D	D	D	B	A	A	B	A	B	A	A
Chetoni	A	D	D	D	D	D	D	A	A	A	B		A	A	A
Cloro (Liquido Anidro)	A	D	A	B	D	D		C	C	D	C		C	D	D
Detergenti	A	A	A	A	B	C		B	C	B				A	A
Diserbanti	A	B	A		C									A	A
Esano	A	A	A	D	B	B	D	B	B	A	A	A	A	A	A
Etano	A	A	A	D	B	B	D	B	B	B	A	A	A	B	A
Freon 11	A	C	B	D	D	C		C	C	B	A		A	A	A

Legenda
A Nessun effetto - Raccomandato
B Attacco leggero - Buono
C Attacco moderato - Modesto
D Attacco forte - Non adatto

	PTFE	NBR	VITON	EPDM	CR (NEOPRENE)	VMQ (SILICONE)	NORYL	GG25	GGG40	OTTONE	BRONZO	BRONZO ALLUMINIO	ACCIAIO CARBONIO	AISI 304	AISI 316
Freon 113	A	A	B	D	A	D		C		B	A		A	A	A
Freon 12 (Soluzione Acquosa)	A	A	A	B	B	D		B		A	A		A	A	D
Freon 22	A	D	D	A	A	D		B		A	A		A	A	A
Freon T.F.	D	A	A	D	A	D		C		B	A		A	A	A
Fluoro	A	D	B	C	C	D			D		C		B	D	D
Formaldeide	A	C	D	B	D	B	A	C	D	A	A	A	B	A	A
Gasolio (Diesel)	A	B	A	D	D	D	C	A	A	A	B		C	A	A
Glicerina	A	A	A	A	A	A	A	B	B	B	A	B	B	A	A
Glicole, Glicole Etilenico	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A
Glicole Propilenico	A	A	A	A	C	A	A	B	B	B	A		B	B	A
Idrocarburi Aromatici	A	D	A	D	D	D	D	A	A	A	A	A	A	A	A
Idrogeno Gas	A	A	A	B	A	C			B		A	D	D	A	A
Idrogeno Solforato (Secco)	A		D	A	C	C		C	B	C	A		C	C	A
Idrogeno Solforato (Soluzione Acquosa)	A	C	D	A	B	C		D	D	D	C		D	A	A
Idrossido di Potassio	A	B	D	A	A	C		C	C	D	B		B	B	B
Idrossido di Sodio (Soda Caustica, 20%)	A	A	B	A	B	A	A	B	A	A	B	D	B	A	A
Idrossido di Sodio (Soda Caustica, 50%)	A	D	C	A	C	A	A	B	B	A	B	D	B	A	B
Idrossido di Sodio (Soda Caustica, 80%)	A	D	C	C	C	A	A	B	C	B	B	D	B	A	C
Inchiostro	A	A	A	A	A	A		D	D				D	A	A
Inibitori della ruggine	A	A	A		C				A					A	A
Ipoclorito di Sodio (20%)	A	C	A	A	D	B		D	D	D	C	D	D	C	C
Ipoclorito di Sodio	A	B	A	A	D	B		D	D	D	C	D	D	D	A
Lacche, Vernici	A	D	D	D	D	D		C	C	A	A		C	A	A
Liquidi base Tannino, per Concia	A	C	A	B	A	B					B	A	C	A	A
Liquidi Zuccherini	A	A	A	C	B	A	A	C	B	A	A		D	A	A
Lubrificanti	A	A	A	D	D	B	D	A	A	B	B	B	A	A	A
Metano	A	A	A	D	B	B	D	B	B	B	A	A	A	B	A
Nafta	A	B	A	D	D	D	D	B	B	B	B	A	B	A	A
Naftalene (Naftalina)	A	D	A	D	D	D	D	B	B	B	B	A	B	A	B
Oli Combustibili	A	A	A	D	B	D	D	B	B	B	B		C	A	A
Oli Idraulici (base Petrolio)	A	A	A	D	B	B	D	B	A	B	B	B	A	A	A
Oli Idraulici (base Sintetica)	A	C	A	C	B	B	D	B	A	B	B	B	A	A	A
Oleum (Acido Solforico Fumante 25%)	A	D	A	D	D	C		C	D	C	C	C	C	B	B
Olio di Colza	A	B	A	A	D	A	D	B	B	B	B	B	B	A	A
Olio da taglio (integrale)	A	B	A	D	D	D		A	A	A	A	A	A	A	A
Olio da taglio (emulsionato)	A	A	A	D	B	C		A	A	A	A	A	A	A	A
Olio Diatermico (per trasformatori)	A	A	A	D	B	B	D	B	B	B	B	A	A	A	A
Olio Minerale	A	A	A	D	B	B	D	B	A	B	B	B	A	A	A
Olio di Oliva	A	A	A	A	B	B	D	B	A	C	B	B	B	A	A
Olio di Palma	A	A	A	B	D	A	D	C	C	B		B	C	A	A
Oli Siliconici	A	A	A	A	A	D	A		A					A	A
Olio per Trasformatori	A	A	A	D	B	B	D	B	B	B	B	A	A	A	A
Paraffina	A	A	A	D	C	A	C	B	B	A	A	A	B	A	A
Pentano	A	A	A	D	B	C	D	B	B	A	A	A	A	C	C
Permanganato di Potassio	A	A	A	A	A	D		B	B	B	B		B	A	B
Perossido di Idrogeno (Acqua Ossigenata, 10%)	A	A	A	C	D	A	A	D	D	C	C	D	C	C	C
Perossido di Idrogeno (Acqua Ossigenata, 30%)	A	D	B	C	C	A	C	D	D	D	C	D	C	C	B
Perossido di Idrogeno (Acqua Ossigenata, 50%)	A	D	B	C	C	A	C	D	D	D	C	D	C	C	B
Perossido di Sodio	A	C	A	A	B	D		C	D	D	C		C	A	A
Petrolio greggio sour (S>1%)	A	C	A	D	C			C	C	C			B	A	A
Petrolio greggio sweet (S<1%)	A	C	A	D	C			C	B	B			B	A	A
Potassa	A	A	A	B	B	D	A		B	D		B		A	A
Propano - GPL (Liquefatto)	A	A	A	D	B	C	D	B	B	A	A	A	B	A	A
Salamoia	A	A	A	B	C			D	C	B	B	A	C	B	A
Soda Caustica (Idrossido di Sodio, 20%)	A	A	B	A	B	A	C	B	A	A	B	D	B	A	A
Soda Caustica (Idrossido di Sodio, 50%)	A	D	C	A	C	A	C	B	B	A	B	D	B	A	B
Soda Caustica (Idrossido di Sodio, 80%)	A	D	C	C	C	A	C	B	C	B	B	D	B	A	C
Solventi per Lacche, Vernici	A	D	D	A	D	D		C	C	A	A		C	A	A
Tinture	A	D	A	D	C				A	C	D	B	A	A	A
Trementina	A	D	A	D	D	D	D	B	B	B	A	B	B	A	A
Urina, Urea	A	A	A	A	D	A		C	B	B		B	C	A	A
Vernici (Usare Viton per Aromatici)	A	B	A	B	D	D		D	C	A	A		A	A	A

Tabella Vapore Saturo - Saturated Steam Table

Pr	Pressione relativa – gauge pressure	**Esen**	Entalpia specifica liquido (calore sensibile liquido) – specific enthalpy of liquid
Pa	Pressione assoluta – absolute pressure	**Elat**	Entalpia specifica di vaporizzazione (calore latente) - specific enthalpy of vap.
T	temperatura - temperature	**Etot**	Entalpia specifica del vapore saturo (calore totale) - specific enthalpy of saturated steam
V	Volume specifico – specific volume		

Pr		**Pa**		**T**		**V**	**Esen**		**Elat**		**Etot**	
bar	**kg/cm²**	**bar**	**kg/cm²**	**°C**	**°K**	**m³/kg**	**kJ/kg**	**kcal/kg**	**kJ/kg**	**kcal/kg**	**kJ/kg**	**kcal/kg**
0	0	1,013	1,033	**100,0**	373,2	1,673	419,1	100,1	2258	539,4	2678	639,5
0,10	0,102	1,113	1,135	**102,6**	375,75	1,533	430,4	102,8	2251,2	537,7	2681,6	640,5
0,20	0,204	1,213	1,237	**106,2**	379,35	1,414	440,9	105,3	2245,0	536,2	2685,8	641,5
0,30	0,306	1,313	1,339	**107,4**	380,55	1,312	450,5	107,6	2238,7	534,7	2689,2	642,3
0,40	0,408	1,413	1,441	**109,5**	382,65	1,225	459,7	109,8	2232,8	533,3	2692,5	643,1
0,50	0,510	1,513	1,543	**111,6**	384,75	1,149	468,5	111,9	2227,0	531,9	2695,5	643,8
0,60	0,612	1,613	1,645	**113,5**	386,65	1,038	476,5	113,8	2221,5	530,6	2698,0	644,4
0,80	0,816	1,813	1,849	**117,1**	390,25	0,971	491,9	117,5	2211,9	528,3	2703,8	645,8
1,00	1,020	2,013	2,053	**120,4**	393,55	0,881	505,8	120,8	2202,3	526,0	2708,0	646,8
1,20	1,224	2,213	2,257	**123,4**	396,55	0,806	519,2	124,0	2194,3	524,1	2713,5	648,1
1,40	1,428	2,413	2,461	**126,3**	399,45	0,743	530,9	126,8	2186,3	522,2	2717,2	649,0
1,60	1,632	2,613	2,664	**128,9**	402,05	0,689	542,2	129,5	2178,8	520,4	2721,0	649,9
1,80	1,835	2,813	2,868	**131,4**	404,55	0,643	552,7	132,0	2171,3	518,6	2723,9	650,6
2,00	2,039	3,013	3,072	**133,7**	406,85	0,603	562,7	134,4	2164,6	517,0	2727,3	651,4
3,00	3,059	4,013	4,092	**143,7**	416,85	0,461	605,8	144,7	2134,8	509,9	2740,7	654,6
4,00	4,079	5,013	5,112	**152,0**	425,15	0,374	641,0	153,1	2109,3	503,8	2750,3	656,9
5,00	5,099	6,013	6,131	**158,9**	432,05	0,315	671,1	160,3	2087,1	498,5	2758,3	658,8
6,00	6,118	7,013	7,151	**165,0**	438,15	0,272	697,9	166,7	2067,4	493,8	2765,4	660,5
7,00	7,138	8,013	8,171	**170,5**	443,65	0,240	721,8	172,4	2049,0	489,4	2770,8	661,8
8,00	8,158	9,013	9,191	**175,4**	448,55	0,215	743,6	177,6	2032,3	485,4	2775,8	663,0
10,00	10,197	11,013	11,230	**184,1**	457,25	0,177	782,1	186,8	2001,3	478,0	2783,4	664,8
12,00	12,236	13,013	13,269	**191,7**	464,85	0,151	815,6	194,8	1973,7	471,4	2789,2	666,2
14,00	14,276	15,013	15,309	**198,3**	471,45	0,132	845,7	202,0	1948,1	465,3	2793,9	667,3
16,00	16,315	17,013	17,348	**204,4**	477,55	0,117	872,9	208,5	1924,7	459,7	2797,6	668,2
18,00	18,355	19,013	19,388	**209,9**	483,05	0,105	897,6	214,4	1902,5	454,4	2800,1	668,8
20,00	20,394	21,013	21,427	**215,0**	488,15	0,095	921,1	220,0	1881,5	449,4	2802,6	669,4
25,00	25,493	26,013	26,525	**226,1**	499,25	0,077	972,6	232,3	1832,6	437,7	2805,2	670,0
30,00	30,591	31,013	31,624	**235,7**	508,85	0,0645	1017,1	242,9	1786,2	426,5	2803,3	669,4
35,00	35,690	36,013	36,722	**244,2**	517,35	0,0555	1057,4	252,5	1744,8	416,6	2802,2	669,1
40,00	40,788	41,013	41,821	**252,0**	525,05	0,0485	1094,4	261,3	1705,6	407,3	2800,0	668,6
45,00	45,886	46,013	46,919	**259,0**	532,00	0,0431	1128,6	269,1	1668,3	398,3	2796,9	667,9
50,00	50,985	51,013	52,018	**265,2**	538,35	0,0386	1160,5	277,1	1632,3	389,8	2792,8	666,9




















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