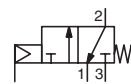




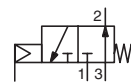
VALVES

pressure operated
bronze body
threaded ports, 1/2 to 2

NC



NO



3/2
Series
E390

FEATURES

- Remote-controlled valves with disc for industrial fluids
- Anti-waterhammer design (fluid entry under the disc)
- Vacuum operation up to 10^{-2} mbar
- Wide range of piston-type operators (63 - 90 - 125 mm dia.) rotatable through 360° , for maximum performance at different minimum pilot pressures
- High performance, maintenance-free stuffing box
- The valves satisfy Pressure Equipment Directive 2014/68/EU, category 1 (DN > 25) or article 4.3 (DN ≤ 25)
- The valves in conformity with IEC 61508 Standard (2010 route 2_H version) certified with integrity levels: SIL 2 for HFT = 0

GENERAL

Differential pressure

See «SPECIFICATIONS» [1 bar = 100 kPa]

Maximum allowable pressure

16 bar

Ambient temperature range

-10°C to +60°C

Maximum viscosity600 cSt (mm²/s)**Pilot fluid**Filtered air or water ⁽¹⁾**Max. pilot pressure**

10 bar

Min. pilot pressure

See below and following page

Pilot fluid temperature

-10°C to +60°C

Response time

See page 7 [2/2 section]

fluids (*)	temperature range	disc seal (*)
air and gas groups 1 & 2	- 10°C to + 184°C	PTFE
water, oil, liquids groups 1 & 2 and steam		

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Valve body

Bronze

Stuffing box housing

Brass

Stem

Stainless steel

Disc

Stainless steel

Stuffing box packing

PTFE chevrons

Wiper seal

FPM

Disc seal

PTFE

Valve body seal

PTFE

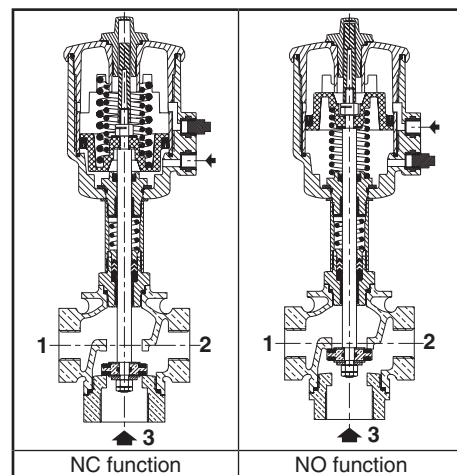
OTHER MATERIALS

Operator

Glass fibre filled PA

Optical position indicator

PA 12, supplied standard on valves with 63, 90



piping (ISO 6708)		flow coefficient Kv				pilot pressure (bar)		operating pressure differential (bar)				operator diameter	catalogue number
pipe size	DN							min.					
		3 → 2		2 → 1				air gas (*)	water, oil, liquids (*)	steam (*) (≤184°C)			
(G*)	(m³/h)	(l/min)	(m³/h)	(l/min)	min.	max.	(mm)						
NC - Normally closed, entry under the disc													
1/2	15	6	100	4,5	75	3	10	0	16	16	10	63	E390B002
						2	10	0	4	4	4	63	E390B001
3/4	20	9,6	160	7,2	120	5	10	0	16	16	10	63	E390B005
1	25	16,2	270	12	200	5	10	0	10	10	10	63	E390B010
									16	16	10	90	E390B011
						3	10	0	5	5	5	63	E390B008
									11	11	10	90	E390B009
1 1/4	32	24	400	18	300	5	10	0	6	6	6	63	E390A016
									12	12	10	90	E390A017
1 1/2	40	42,9	715	31,8	530	5	10	0	4	4	4	63	E390A020
									8	8	8	90	E390A021
									16	16	10	125	E390A482
2	50	52,8	880	39	650	5	10	0	6	6	6	90	E390A025
NO - Normally open, entry under the disc													
1/2	15	6	100	4,5	75	II (*)	10	0	16	16	10	63	E390B026
3/4	20	9,6	160	7,2	120	II (*)	10	0	16	16	10	63	E390B027
1	25	16,2	270	12	200	II (*)	10	0	16	16	10	63	E390B028
1 1/4	32	24	400	18	300	III (*)	10	0	16	16	10	90	E390A031
1 1/2	40	42,9	715	31,8	530	II (*)	10	0	11	11	10	63	E390A032
						IV (*)	10	0	16	16	10	125	E390A489
2	50	52,8	880	39	650	IV (*)	10	0	16	16	10	125	E390A490

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OPTIONS AND ACCESSORIES [See "Pressure Operated Valves (2/2)",

- Signaling box or compact signaling unit
- Stroke limiter for opening
- Adapter plate for NAMUR pad mounting pilot
- Oxygen service, pressure limited to 15 bar, temperature limited to + 60°C
- Vacuum applications up to 1,33 10⁻³ mbar
- 3/2 version for mixing or distributing operations
- ATEX 2014/34/EU versions for potentially explosive atmospheres
- Other pipe connections are available on request

INSTALLATION

- The valves can be mounted in any position without affecting operation
- Compatible with ASTM 1, 2 and 3 oils
- Check temperature range of valve body and solenoid pilot valves for suitability. For probability of failure, contact us
- Pipe connections (G*) have standard combination thread according to ISO 228/1 and ISO 7/1
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS

DN	spare parts kit no.
	Ø 63-90-125 mm
15	C140021 ⁽²⁾
20	C140022 ⁽²⁾
25	C140023 ⁽²⁾
32	C140024 ⁽²⁾
40	C140025 ⁽²⁾
50	C140026 ⁽²⁾

⁽²⁾ Standard suffix VM also applies to kits.
[see page: 37, 2/2 section]

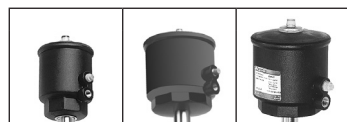
ORDERING EXAMPLES

E	390	B	002	
E	390	B	011	SM2
E	390	A	030	
pipe thread			suffix	
basic number				

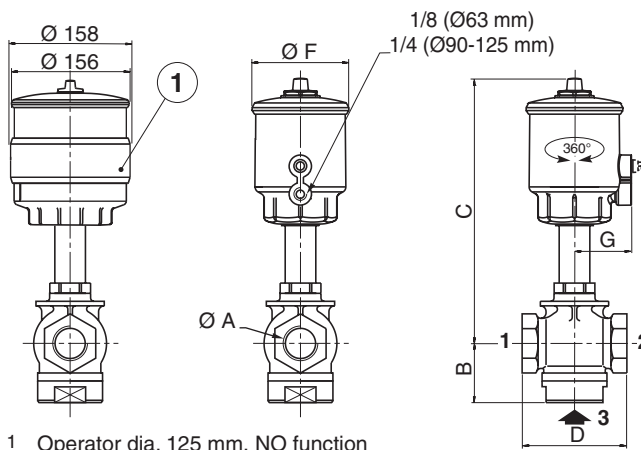
ORDERING EXAMPLES KITS:

C140021	
C140022	
C140024	VM
basic number	
suffix	

DIMENSIONS (mm), WEIGHT (kg)



TYPE 01-02-03
63, 90 and 125 mm operators
Fluid entry:
under the disc at 3



1 Operator dia. 125 mm, NO function

type	operator diameter	ØA	B	C	D	ØF	G	weight ⁽³⁾
01	63 mm	1/2	39	198	68	85	50,5	1,6
		3/4	44	203	84	85	50,5	1,9
		1	52	212	92	85	50,5	2,6
		1 1/4	57	237	110	85	50,5	3,2
		1 1/2	61	244	125	85	50,5	4,5
02	90 mm	1	52	223,5	92	118	67	3,2
		1 1/4	57	248	110	118	67	3,7
		1 1/2	61	255	125	118	67	5,2
		2	69	264	145	118	67	6,2
03	125 mm	1 1/2	61	309	125	156	86	7,7
		2	69	318	145	156	86	8,7

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