

3/2 VALVES

PRESSURE OPERATED

Product Index



Quick Selection
Chart
page: II

Function	ΔP		Temperature		Pipe connections	Series	Page	
	min. (bar)	max. (bar)	min. (°C)	max. (°C)				
BRONZE BODY								
NC-NO	0	16	-10	+184	Threaded ports (IEC 61508)	1/2..2 E390	1	
NO	0	16	-10	+184	Threaded ports	1/2 .. 2 166 (AD/TBT)	17	
STAINLESS STEEL BODY								
	0	40	-25	+250	Threaded ports (IEC 61508)	1/2 .. 2 E398	3	
NC-NO	0	40	-25	+250	Flanged (DIN and ANSI Class 300) (IEC 61508)	DN 15..50 T398	7	
	0	40	-25	+250	Socket welding ends (IEC 61508)	DN 15..50 S398	11	
BRASS BODY								
NC-NO	0	40	-20	+100	Coaxial	3/8 .. 1 387	15	
ACCESSORIES AND OPTIONS								
Options and accessories for series 390						www.asco.com	Pressure Operated Valves (2/2)	▶ 37
Options and accessories, ATEX 2014/34/EU, for series 390						www.asco.com		▶ 43
Options and accessories for series 398						www.asco.com		▶ 65
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Air/oil exchanger for type AD valves						218		▶ 81
SOLENOID PILOT VALVES								
Valve piloting solutions						290/390	Pressure Operated Valves (2/2)	▶ 47
290/390: 189/banjo and 356 solenoid valves - 63 mm operator						www.asco.com		▶ 49
290/390: 356 and 314 solenoid valves - 90 and 125 mm operators						www.asco.com		▶ 51
298/398: 356 solenoid valves - 80 and 100 mm operators						www.asco.com		▶ 71
298/398: 314 and 356 solenoid valves - 150 and 200 mm operators						www.asco.com		▶ 73
314 solenoid valves - AD valve operators						www.asco.com		▶ 83

(Potentially explosive atmospheres, see page: II)

All leaflets are available on: www.asco.com

Pressure Operated Valves (3/2) - I

pipe connections										body material					max. operating pressure differential (bar)										fluid temperature range		series	I&M Sheet	page	
3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3		bronze	cast iron	carbon steel	stainless steel	st. steel, AISI 316L	DN	min. operating pressure differential (bar)	air, inert gases	aggressive fluids	water, oil liquids	aggressive liquids	vacuum (mbar)	hot water	steam	superheated water	max. allowable pressure (bar)	min. (°C)				max. (°C)
NORMALLY CLOSED (NC)															15 ↓ 50	0		16 ↓ 2		10 ²	16 ↓ 2	10		16	-10	+184	E390		1	
														10 ↓ 25	0	40 12	40 12			40 12	-				-	-20	+100	387		15 (coaxial)
NORMALLY OPEN (NO)															15 ↓ 50	0		16 ↓ 7		10 ²	16 ↓ 7	10 ↓ 7		16	-10	+184	E390		1	
														10 ↓ 25	0	40 12	40 12			40 12	-				-	-20	+100	387		15 (coaxial)
														15 ↓ 50	0	16	16			16	10				16	-10	+184	166		17 (AD/TBT)
UNIVERSAL (U)															15 ↓ 50	0	40	40		10 ²	40	-	-	-	40	-25	+250	E398		3
																								40	-25	+223	T398	7		
																								40	-25	+223	S398	11		

POTENTIALLY EXPLOSIVE ATMOSPHERES

			DN	group II								
				dusts		gas			dusts			gas
page	ATEX page	series	zone 22	zone 2			zone 21	zone 1			zones 0-20	
				IIA	IIB	IIC		IIA	IIB	IIC		
SERIES 390 VALVES ATEX 2014/34/EU												
1	43 ⁽¹⁾ www.asco.com	E290	15 → 50									⁽²⁾
SERIES 398 VALVES ATEX 2014/34/EU												
3		E398	15 → 50									-
7	67 ⁽¹⁾ www.asco.com	T398	15 → 50									-
11		S398	15 → 50									-
SERIES 387 VALVES ATEX 2014/34/EU												
15	www.asco.com	387	10 → 25									-
TYPE AD VALVES ATEX 2014/34/EU												
17	www.asco.com	166 - AD/TBT	15 → 50									-

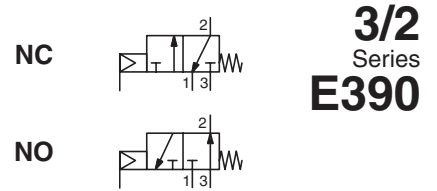
(1) See section: «Pressure Operated Valves (2/2)»

(2) Contact us.



VALVES

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



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 viscosity	600 cSt (mm ² /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] (www.asco.com)

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

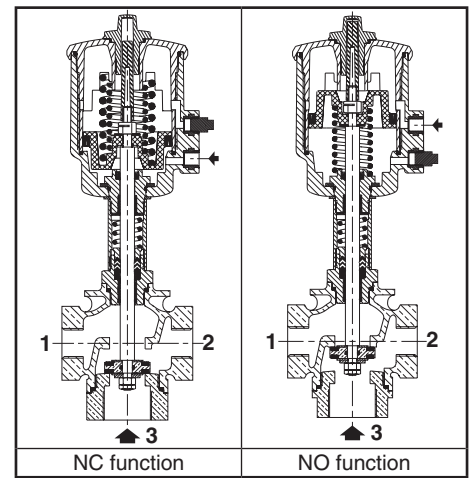
Operator	Glass fibre filled PA
Optical position indicator	PA 12, supplied standard on valves with 63, 90 and 125 mm operators

⁽¹⁾ For dia. 63, 90 and 125 mm operators: At service fluid temperatures inside the valve body above 100°C, it is prohibited to pilot the valve with water.

SPECIFICATIONS

piping (ISO 6708)		flow coefficient Kv				pilot pressure (bar)		operating pressure differential (bar)				operator diameter (mm)	catalogue number
pipe size (G*)	DN	3 → 2		2 → 1		min.		max.					
		(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	min.	max.	air gas (*)	water, oil, liquids (*)	steam (*) (≤184°C)			
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
						10	10	0	10	10	10	63	E390B010
1	25	16,2	270	12	200	5	10	0	16	16	10	90	E390B011
						3	10	0	5	5	5	63	E390B008
						11	11	10	90	E390B009			
						6	6	6	63	E390A016			
1 1/4	32	24	400	18	300	5	10	0	12	12	10	90	E390A017
						4	4	4	63	E390A020			
1 1/2	40	42,9	715	31,8	530	5	10	0	8	8	8	90	E390A021
						16	16	10	125	E390A482			
						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

(*) Minimum pilot pressure varies with differential pressure, see page: 7 [2/2 section] (www.asco.com)



OPTIONS AND ACCESSORIES [See "Pressure Operated Valves (2/2)", page 37 (www.asco.com) / page 43 (www.asco.com)]

- 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 (www.asco.com)
- Other pipe connections are available on request

INSTALLATION

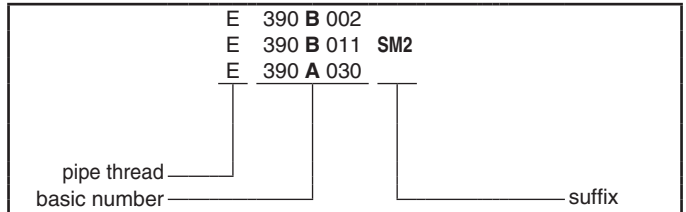
- The valves can be mounted in any position without affecting operation
- Compatible with ASTM 1, 2 and 3 oils
- Check temperature range of valve body and solenoid pilot valves for suitability. For probability of failure, contact us
- Pipe connections (G*) have standard combination thread according to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

SPARE PARTS KITS

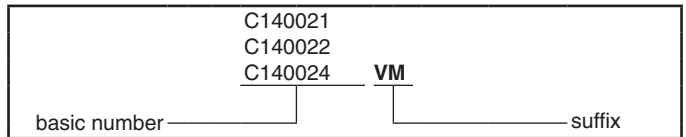
DN	spare parts kit no.
	Ø 63-90-125 mm
15	C140021 ⁽²⁾
20	C140022 ⁽²⁾
25	C140023 ⁽²⁾
32	C140024 ⁽²⁾
40	C140025 ⁽²⁾
50	C140026 ⁽²⁾

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

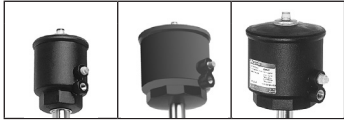
ORDERING EXAMPLES



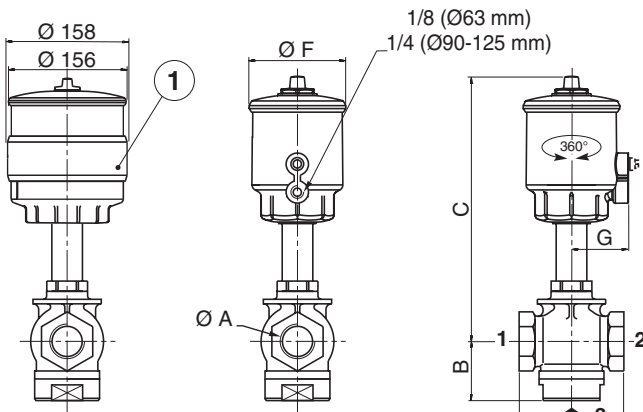
ORDERING EXAMPLES KITS:



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

⁽³⁾ Weight of valve without pilot. Add 0,2 for dia. 125 mm operator NO.

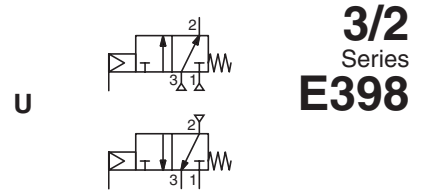
2/2 section: Solenoid pilot valves, see pages: 49 (www.asco.com) [63 mm operator]

51 (www.asco.com) [90 and 125 mm operators]



VALVES

pressure operated
stainless steel body
with threaded ports PN40, 1/2 to 2



FEATURES

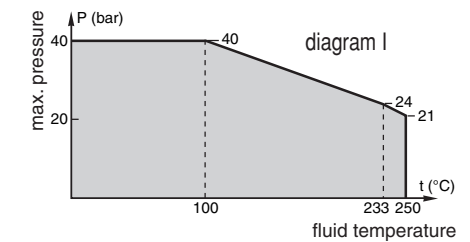
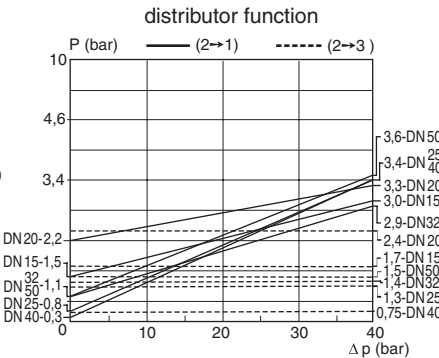
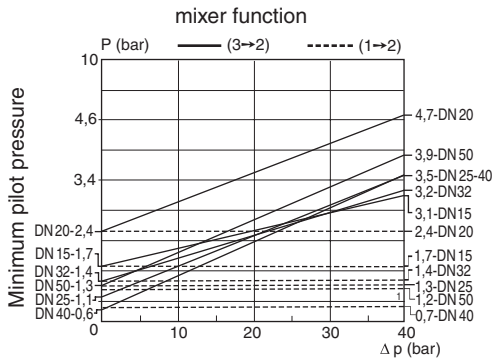
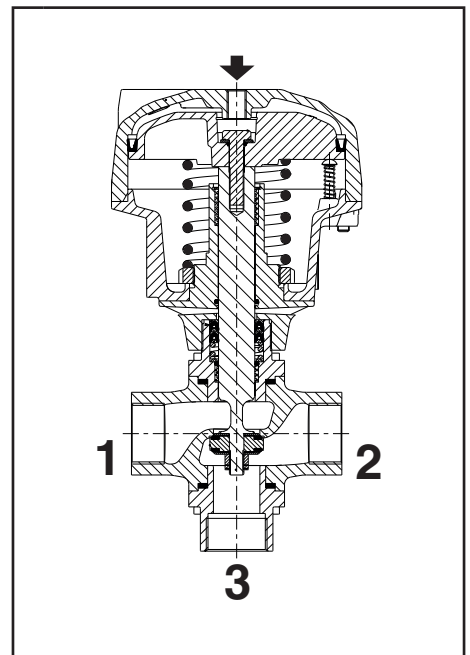
- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, maintenance-free stuffing box, resistant to thermal shock
- Mixer function (two pressure inlets at 1 or 3, one outlet at 2) or distributor function (one pressure inlet at 2, two outlets at 1 and 3)
- Vacuum operation up to 10^{-2} mbar (PTFE and PEEK discs)
- Optical position indicator as standard
- Autoclavable valve for use at high ambient temperatures (up to 180°C)
- The valves satisfy Pressure Equipment Directive 2014/64/EU
- 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	0 to 40 bar [1 bar =100 kPa]
Maximum allowable pressure	40 bar (within the specified limits, see diagram I)
Maximum back pressure	40 bar / 20 bar for PEEK sealing
Ambient temperature range	-20°C to +180°C [Option: -55°C to +70°C]
Maximum viscosity	5000 cSt (mm ² /s)
Pilot fluid	Air
Max. pilot pressure	10 bar
Min. pilot pressure	See graphs below



fluids (*)	temperature range	disc seal (*)
DN 15-20-25: air and gas groups 1 & 2 DN 32-40-50: air and gas group 2 all DN: water, oil, liquids groups 1 & 2 and steam	-10°C to +233°C	PEEK
	-10°C to +250°C	metal-to-metal
	-10°C to +180°C	PTFE



SPECIFICATIONS

Body connection	Threaded port, BSP DIN ISO 228/1 & ISO 7/1 NPTF ANSI B1.20.3
------------------------	---

GENERAL

MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body and plug	304 stainless steel
Stuffing box housing	304 stainless steel
Stem, disc	431 stainless steel
Stuffing box packing	PTFE chevrons
Disc seals	PEEK or PTFE or Stainless steel
Valve body seal	PTFE

OTHER MATERIALS

Operator	Aluminium, nickel plated
Screws	Galvanized steel

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

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OPTIONS

Low temperature (media and ambient temperature), PTFE disc seal (-55°C to +70°C), see "15-DIGIT PRODUCT CODE" (*) ⁽¹⁾
Oxygen service, max. fluid pressure 15 bar, max. fluid temperature 150°C, PTFE disc, see "15-DIGIT PRODUCT CODE"
Signalling box, see "15-DIGIT PRODUCT CODE": - Dual mechanical contacts or dual inductive contacts (PNP 3 wires) - Dual inductive contacts ATEX Ex ia (NAMUR 2 wires) - Dual mechanical contact ATEX Ex d IIC T6 (Crouzet contacts type 83101-I-W1, ambient temperature -20°C to +80°C) - Dual mechanical contact ATEX Ex d IIC T6 (Honeywell contact type 1HS1, ambient temperature -55°C to +70°C). Use for low temperature option
For use in explosive atmospheres, zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU: Ex IIC 2GD c x°C (Tx)
CUTR Certification (EAC), see "15-DIGIT PRODUCT CODE"
Valve seat leakage class VI as defined by FCI-2 ANSI B16.104 or Class A or B following EN 12266-1, contact us
Manual override on the top of the actuator (Manual safety device), contact us
Other flange types are available on request
Re-buildable valve program; rebuild services, contact us

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

⁽¹⁾ The minimum ambient temperature of the valve is determined by the limitations of minimum temperature indicated.

SPECIFICATIONS

piping (ISO 6708)		orifice size	flow coefficient Kv								pilot pressure (bar)		operating pressure differential (bar)	operator diameter (mm)	catalogue number			
pipe size	DN		mixer				distributor				min.	max.			disc sealing			
			3 → 2	1 → 2	2 → 3	2 → 1	PTFE	PEEK	metal-to-metal									
(G*)		(mm)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)						
U - Universal																		
1/2	15	15	3,3	54	4,4	73	3,5	59	4,6	78	*	10	40	80	E398B237UTA0000	E398B237UVA0000	E398B237UEA0000	
3/4	20	20	8,0	133	7,4	123	8,1	136	7,7	129	*	10	40	100	E398B24DUTA0000	E398B24DUVA0000	E398B24DUEA0000	
1	25	25	11,4	190	11,6	194	12,1	203	11,9	199	*	10	40	100	E398B25DUTA0000	E398B25DUVA0000	E398B25DUEA0000	
1 1/4	32	32	18,9	316	16,6	278	17,9	299	16,6	278	*	10	40	150	E398B26KUTA0000	E398B26KUVA0000	E398B26KUEA0000	
1 1/2	40	40	27	450	27	450	27	450	27	450	*	10	40	150	E398B27KUTA0000	E398B27KUVA0000	E398B27KUEA0000	
2	50	50	51	850	51	850	51	850	51	850	*	10	40	200	E398B28MUTA0000	E398B28MUVA0000	E398B28MUEA0000	

* Minimum pilot pressure varies with differential pressure. See piloting chart preceding page.

HOW TO ORDER

[Configurator - CAD Files](#)

15-DIGIT PRODUCT CODE

E 398 B 2 3 7 U V A00 00

Connection

E = ISO 228/1 & ISO 7/1
(combination thread, G*)
8 = NPTF (ANSI B1.20.3)

Product series

398

Revision letter

B = New Stuffing Box and Disc Materials

Function

2 = Universal

Diameter (mm)

3 = 15 mm
4 = 20 mm
5 = 25 mm
6 = 32 mm
7 = 40 mm
8 = 50 mm

Operator Dia. - Piloting Connection Dia.

7 = Ø80 mm - G 1/8
8 = Ø80 mm - NPT 1/8 ⁽¹⁾
D = Ø100 mm - G 1/8
E = Ø100 mm - NPT 1/8 ⁽¹⁾
K = Ø150 mm - G 1/4
L = Ø150 mm - NPT 1/4 ⁽¹⁾
M = Ø200 mm - G 1/4
N = Ø200 mm - NPT 1/4 ⁽¹⁾

⁽¹⁾ Connection = 8 [NPTF (ANSI B1.20.3)]

Options

A00 = Without
AT1 = ATEX zones 1/21
AT2 = ATEX zones 2/22
LTP = PTFE disc for low temperature (-55°C to +70°C)
MC2 = Dual mechanical Contacts
AD2 = Dual position Contact ATEX Ex d
1S2 = Dual position Contact NAMUR ATEX Ex i
1C2 = Dual inductive contacts PNP 3 wires
02S = PTFE disc for Oxygen service
124 = CUTR Certification
A24 = CUTR Certification for ATEX 1/21
LT1 = AT1 + LTP
LT2 = AT2 + LTP

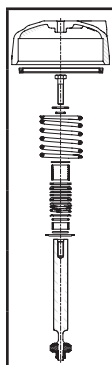
Disc Seal Material

T = PTFE
E = Metal-to-metal (stainless steel)
V = PEEK

Port Type

U = ISO 228/1 & ISO 7/1
8 = NPT ⁽¹⁾

SPARE PARTS KITS CODE (*)



		SPARE PARTS KITS CODE (*)	
		PTFE disc seal	PEEK disc version
DN 15 NC	M39852671700300	M39852671400300	
DN 20 NC	M39852671700600	M39852671400600	
DN 25 NC	M39852671700900	M39852671400900	
DN 32 NC	M39852671701200	M39852671401200	
DN 40 NC	M39852671701500	M39852671401500	
DN 50 NC	M39852671701800	M39852671401800	

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

INSTALLATION

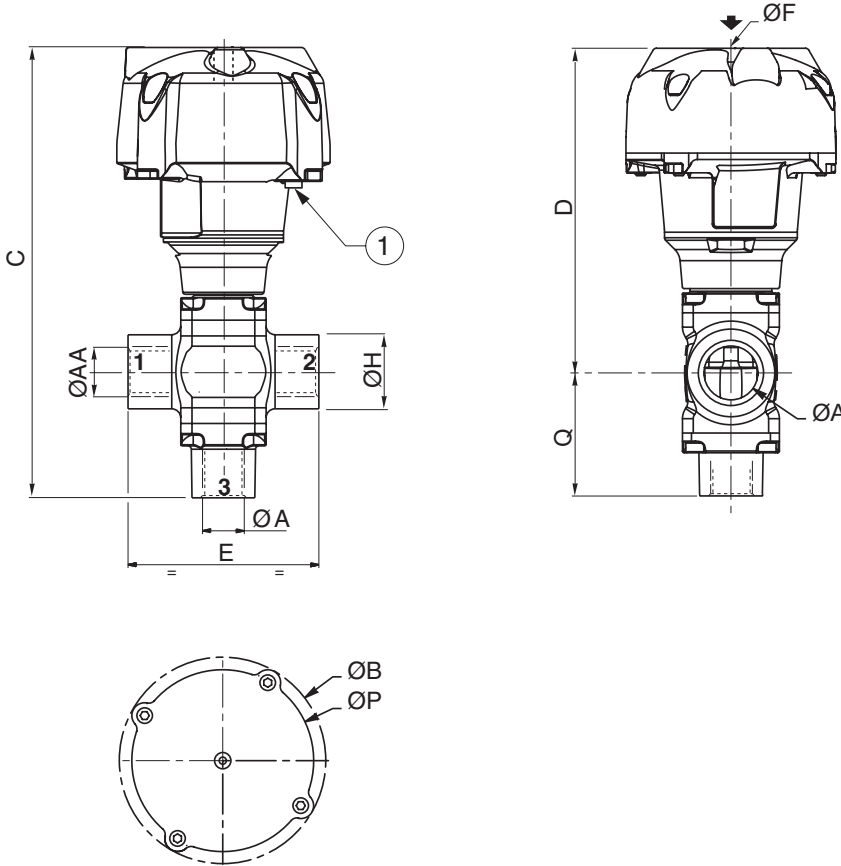
- The valves can be mounted in any position without affecting operation
- Compatible with ASTM 1, 2 and 3 oils
- Check temperature range of valve body and solenoid pilot valves for suitability. For probability of failure, contact us
- Piloting thread connection: Pipe connections (G*) have standard thread according to ISO 228/1 and ISO 7/1.
Pipe connections (G) have standard thread according to ISO 228/1
- Piloting thread connections have standard thread = NPTF (ANSI B1.20.3)
- Declarations of conformity are available on request
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

[Configurator - CAD Files](#)



TYPE 01-02-03-04
"E" threaded connection



① Optical position indicator

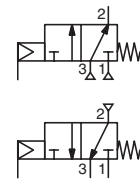
type	DN	operator diameter	ØA	ØAA	ØB	C	D	E	ØF	ØH	ØP	Q	weight
01	15	80	15	1/2"	110	203,1	151,6	85	G 1/8	33	95	51,5	1,88
02	20	100	20	3/4"	132,5	229,2	170,9	110	G 1/8	40	117	58,3	3,52
	25	100	25	1"	132,5	244,9	180,9	120	G 1/8	46	117	64	4,24
03	32	150	32	1"1/4	191	318,2	237,2	145	G* 1/4	57	172,5	81	9,38
	40	150	40	1"1/2	191	361,7	259,2	150	G* 1/4	65	172,5	102,5	11,9
04	50	200	50	2"	247	436	328,5	190	G* 1/4	75	230	107,5	23,66



VALVES

pressure operated
stainless steel body
with flanges PN40, DIN and ANSI Class 300, DN 15 to 50

U



3/2
Series
T398

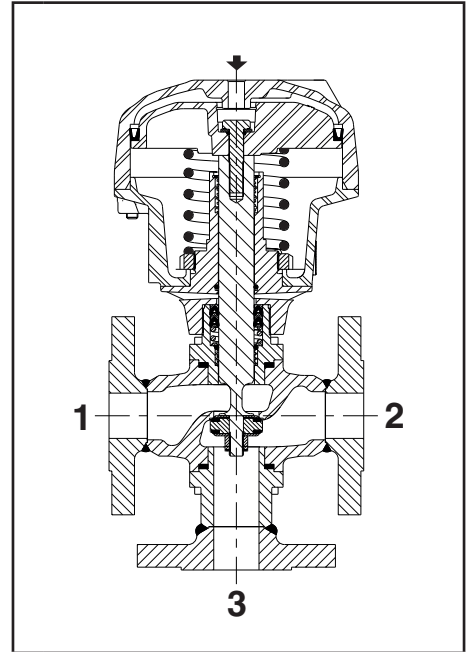
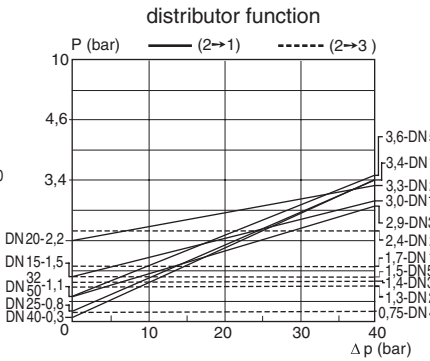
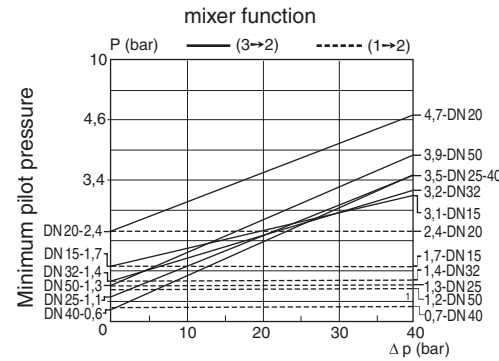
FEATURES

- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, maintenance-free stuffing box, resistant to thermal shock
- Mixer function (two pressure inlets at 1 or 3, one outlet at 2) or distributor function (one pressure inlet at 2, two outlets at 1 and 3)
- Vacuum operation up to 10^{-2} mbar (PTFE and PEEK discs)
- Optical position indicator as standard
- Autoclavable valve for use at high ambient temperatures (up to 180°C)
- The valves satisfy Pressure Equipment Directive 2014/64/EU
- 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	0 to 40 bar [1 bar =100 kPa]
Maximum allowable pressure	40 bar (within the specified limits, see diagram I)
Maximum back pressure	40 bar / 20 bar for PEEK sealing
Ambient temperature range	-20°C to +180°C [Option: -55°C to +70°C]
Maximum viscosity	5000 cSt (mm ² /s)
Pilot fluid	Air
Max. pilot pressure	10 bar
Min. pilot pressure	See graphs below

fluids (*)	temperature range	disc seal (*)
DN 15-20-25: air and gas groups 1 & 2 DN 32-40-50: air and gas group 2 all DN: water, oil, liquids groups 1 & 2 and steam	-10°C to +233°C	PEEK
	-10°C to +250°C	metal-to-metal
	-10°C to +180°C	PTFE



SPECIFICATIONS

Connection	Flanges PN40, type 21 (ISO 7005 / EN 1092-1) ANSI Class 300 ANSI B16-5
Face-to-face dimensions	EN 558-1
Face de joint	Type B

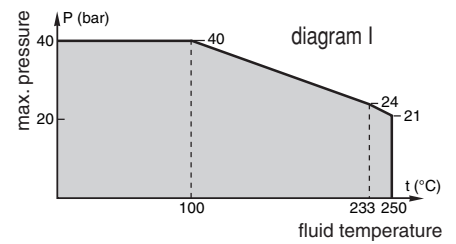
GENERAL

MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body and plug	304 stainless steel
Stuffing box housing	304 stainless steel
Stem, disc	431 stainless steel
Stuffing box packing	PTFE chevrons
Disc seals	PEEK or PTFE or Stainless steel
Valve body seal	PTFE

OTHER MATERIALS

Operator	Aluminium, nickel plated
Screws	Galvanized steel

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



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OPTIONS

Low temperature (media and ambient temperature), PTFE disc seal (-55°C to +70°C), see "15-DIGIT PRODUCT CODE" (*) ⁽¹⁾
Oxygen service, max. fluid pressure 15 bar, max. fluid temperature 150°C, PTFE disc, see "15-DIGIT PRODUCT CODE"
Signalling box, see "15-DIGIT PRODUCT CODE": - Dual mechanical contacts or dual inductive contacts (PNP 3 wires) - Dual inductive contacts ATEX Ex ia (NAMUR 2 wires) - Dual mechanical contact ATEX Ex d IIC T6 (Crouzet contacts type 83101-I-W1, ambient temperature -20°C to +80°C) - Dual mechanical contact ATEX Ex d IIC T6 (Honeywell contact type 1HS1, ambient temperature -55°C to +70°C). Use for low temperature option
For use in explosive atmospheres, zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU: Ex IIC 2GD c x°C (Tx)
CUTR Certification (EAC), see "15-DIGIT PRODUCT CODE"
Valve seat leakage class VI as defined by FCI-2 ANSI B16.104 or Class A or B following EN 12266-1, contact us
Manual override on the top of the actuator (Manual safety device), contact us
Other flange types are available on request
Re-buildable valve program; rebuild services, contact us

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

⁽¹⁾ The minimum ambient temperature of the valve is determined by the limitations of minimum temperature indicated.

SPECIFICATIONS

DN	orifice size	flow coefficient Kv								pilot pressure (bar)		operating pressure differential (bar)	operator diameter (mm)	catalogue number			
		mixer				distributor				min.	max.			disc sealing			
		3 → 2	1 → 2	2 → 3	2 → 1	PTFE			PEEK					metal-to-metal			
	(mm)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)								
U - Universal														Flanges DIN EN 1092-1			
15	15	3,3	54	4,4	73	3,5	59	4,6	78	※	10	40	80	T398B237DTA0000	T398B237DVA0000	T398B237DEA0000	
20	20	8,0	133	7,4	123	8,1	136	7,7	129	※	10	40	100	T398B24DDTA0000	T398B24DDVA0000	T398B24DDEA0000	
25	25	11,4	190	11,6	194	12,1	203	11,9	199	※	10	40	100	T398B25DDTA0000	T398B25DDVA0000	T398B25DDEA0000	
32	32	18,9	316	16,6	278	17,9	299	16,6	278	※	10	40	150	T398B26KDTA0000	T398B26KDVA0000	T398B26KDEA0000	
40	40	27	450	27	450	27	450	27	450	※	10	40	150	T398B27KDTA0000	T398B27KDVA0000	T398B27KDEA0000	
50	50	51	850	51	850	51	850	51	850	※	10	40	200	T398B28MDTA0000	T398B28MDVA0000	T398B28MDEA0000	
														Flanges ANSI 300			
15	15	3,3	54	4,4	73	3,5	59	4,6	78	※	10	40	80	T398B238PTA0000	T398B238PVA0000	T398B238PEA0000	
20	20	8,0	133	7,4	123	8,1	136	7,7	129	※	10	40	100	T398B24EPTA0000	T398B24EPVA0000	T398B24EPEA0000	
25	25	11,4	190	11,6	194	12,1	203	11,9	199	※	10	40	100	T398B25EPTA0000	T398B25EPVA0000	T398B25EPEA0000	
32	32	18,9	316	16,6	278	17,9	299	16,6	278	※	10	40	150	T398B26LPTA0000	T398B26LPVA0000	T398B26LPEA0000	
40	40	27	450	27	450	27	450	27	450	※	10	40	150	T398B27LPTA0000	T398B27LPVA0000	T398B27LPEA0000	
50	50	51	850	51	850	51	850	51	850	※	10	40	200	T398B28NPTA0000	T398B28NPVA0000	T398B28NPEA0000	

※ Minimum pilot pressure varies with differential pressure. See piloting chart preceding page.

HOW TO ORDER

[Configurator - CAD Files](#)

15-DIGIT PRODUCT CODE

T 398 B 0 3 7 D V A00 00

Connection
T = Flanges

Product series
398

Revision letter
B = New Stuffing Box and Disc Materials

Function
2 = Universal

Diameter (mm)

- 3 = 15 mm
- 4 = 20 mm
- 5 = 25 mm
- 6 = 32 mm
- 7 = 40 mm
- 8 = 50 mm

Operator Dia. - Piloting Connection Dia.

- 7 = Ø80 mm - G 1/8
- 8 = Ø80 mm - NPT 1/8 ⁽¹⁾
- D = Ø100 mm - G 1/8
- E = Ø100 mm - NPT 1/8 ⁽¹⁾
- K = Ø150 mm - G 1/4
- L = Ø150 mm - NPT 1/4 ⁽¹⁾
- M = Ø200 mm - G 1/4
- N = Ø200 mm - NPT 1/4 ⁽¹⁾

⁽¹⁾ Connection = NPTF (ANSI B1.20.3) / Flanges ANSI Class 300

Options

- A00 = Without
- AT1 = ATEX zones 1/21
- AT2 = ATEX zones 2/22
- LTP = PTFE disc for low temperature (-55°C to +70°C)
- MC2 = Dual mechanical Contacts
- AD2 = Dual position Contact ATEX Ex d
- 1S2 = Dual position Contact NAMUR ATEX Ex i
- 1C2 = Dual inductive contacts PNP 3 wires
- 02S = PTFE disc for Oxygen service
- 124 = CULTR Certification
- A24 = CULTR Certification for ATEX 1/21
- LT1 = AT1 + LTP
- LT2 = AT2 + LTP


Disc Seal Material

- T = PTFE
- E = Metal-to-metal (stainless steel)
- V = PEEK

Port Type

- D = Flanges DIN EN 1092-1 (ISO 7005) Standard
- P = Flanges ANSI Class 300
- E = Flanges DIN EN 1092-1 + Third way port threaded Gaz + Rp
- S = Flanges ANSI Class 300 + Third way port threaded NPT

SPARE PARTS KITS CODE (*)

		PTFE disc seal	PEEK disc version
	DN 15 NC	M39852671700300	M39852671400300
	DN 20 NC	M39852671700600	M39852671400600
	DN 25 NC	M39852671700900	M39852671400900
	DN 32 NC	M39852671701200	M39852671401200
	DN 40 NC	M39852671701500	M39852671401500
	DN 50 NC	M39852671701800	M39852671401800

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

INSTALLATION

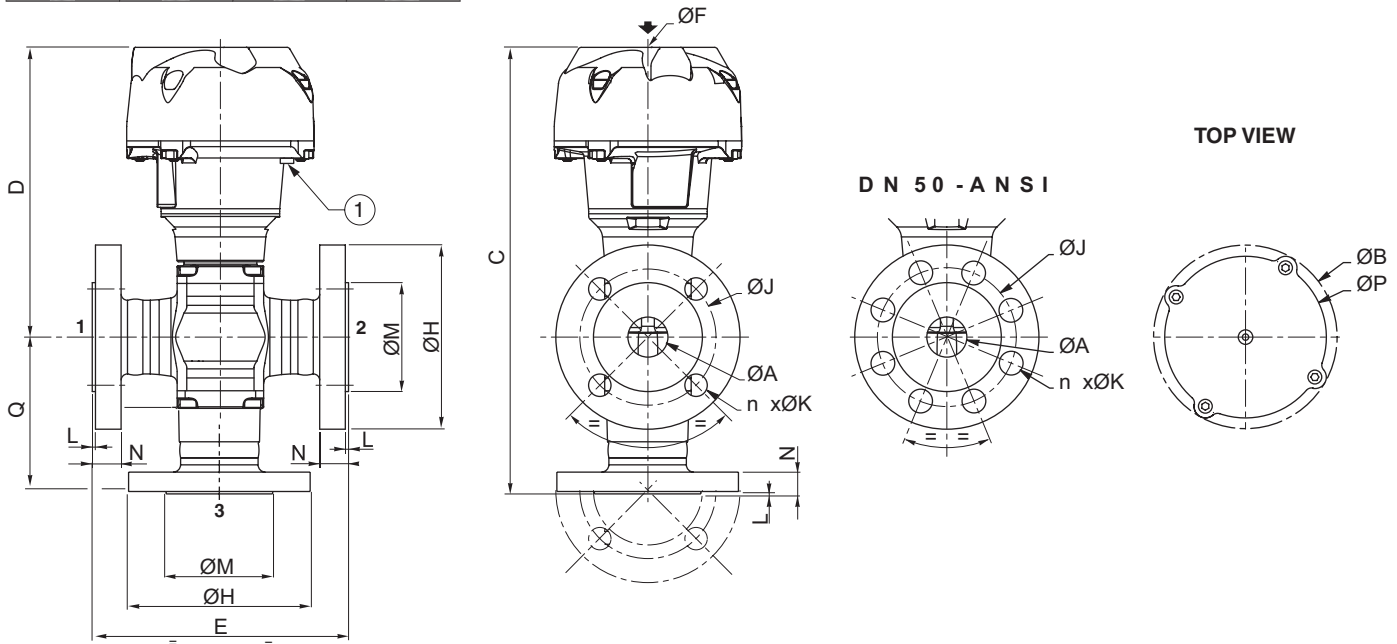
- The valves can be mounted in any position without affecting operation
- Compatible with ASTM 1, 2 and 3 oils
- Check temperature range of valve body and solenoid pilot valves for suitability. For probability of failure, contact us
- Piloting thread connection: Pipe connections (G*) have standard thread according to ISO 228/1 and ISO 7/1.
Pipe connections (G) have standard thread according to ISO 228/1
- Piloting thread connections have standard thread = NPTF (ANSI B1.20.3)
- Declarations of conformity are available on request
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

[Configurator - CAD Files](#)



TYPE 01-02-03-04
"T" flanges connection



① Optical position indicator

type	DN	operator diameter	ØA	ØB	C		D	E		ØF	ØF	
					DIN	ANSI		DIN	ANSI		DIN	ANSI
01	15	80	15	110	225,6	231,5	151,6	130	140	G 1/8	G 1/8	NPT 1/8
02	20	100	20	132,5	256,9		170,9	150		G 1/8	G 1/8	NPT 1/8
	25	100	25	132,5	275,9	280,9	180,9	160	170	G 1/8	G 1/8	NPT 1/8
03	32	150	32	191	346,2	351,2	237,2	180	190	G* 1/4	G* 1/4	NPT 1/4
	40	150	40	191	396,2		259,2	200		G* 1/4	G* 1/4	NPT 1/4
04	50	200	50	247	474		328,5	230		G* 1/4	G* 1/4	NPT 1/4

type	DN	operator diameter	ØH		ØJ		n x ØK		L		ØM		N		ØP	Q	
			DIN	ANSI	DIN	ANSI	DIN	ANSI	DIN	ANSI	DIN	ANSI	DIN	ANSI		DIN	ANSI
01	15	80	95		65	66,5	4 x 14	4 x 16	2	1,6	45	35	16	14,2	95	75	80
02	20	100	105	120	75	82,5	4 x 14	4 x 19	2	1,6	58	43	18	15,8	117	86	
	25	100	115	125	85	89	4 x 14	4 x 19	2	1,6	68	51	18	17,5	117	95	100
03	32	150	140	135	100	98,5	4 x 18	4 x 19	2	1,6	78	64	18	19,1	172,5	109	114
	40	150	150	155	110	114,5	4 x 18	4 x 22	2	1,6	88	73	18	20,6	172,5	137	
04	50	200	165		125	127	4 x 18	8 x 19	2	1,6	102	92	20	22,4	230	145,5	

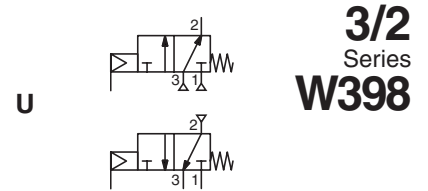
type	DN	operator diameter	weight	
			DIN	ANSI
01	15	80	4,1	3,9
	20	100	6,7	7,2
02	25	100	8,1	8,7
	32	150	15,1	15,2
03	40	150	20,1	20,9
	50	200	33,9	34,3

All leaflets are available on: www.asco.com



VALVES

pressure operated
stainless steel body
with socket welding ends PN40, DN 15 to 50



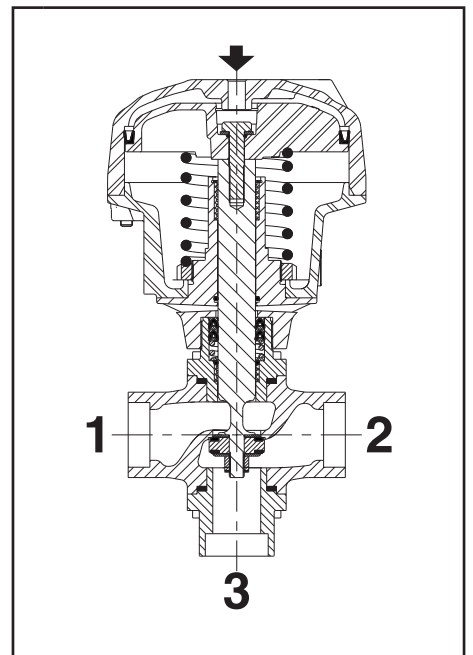
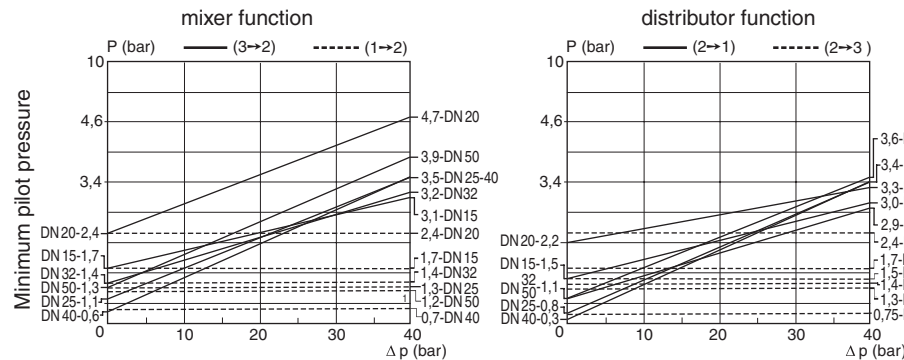
FEATURES

- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, maintenance-free stuffing box, resistant to thermal shock
- Mixer function (two pressure inlets at 1 or 3, one outlet at 2) or distributor function (one pressure inlet at 2, two outlets at 1 and 3)
- Vacuum operation up to 10^{-2} mbar (PTFE and PEEK discs)
- Optical position indicator as standard
- Autoclavable valve for use at high ambient temperatures (up to 180°C)
- The valves satisfy Pressure Equipment Directive 2014/64/EU
- 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	0 to 40 bar [1 bar =100 kPa]
Maximum allowable pressure	40 bar (within the specified limits, see diagram I)
Maximum back pressure	40 bar / 20 bar for PEEK sealing
Ambient temperature range	-20°C to +180°C [Option: -55°C to +70°C]
Maximum viscosity	5000 cSt (mm ² /s)
Pilot fluid	Air
Max. pilot pressure	10 bar
Min. pilot pressure	See graphs below

fluids (*)	temperature range	disc seal (*)
DN 15-20-25: air and gas groups 1 & 2 DN 32-40-50: air and gas group 2 all DN: water, oil, liquids groups 1 & 2 and steam	-10°C to +233°C	PEEK
	-10°C to +250°C	metal-to-metal
	-10°C to +180°C	PTFE



SPECIFICATIONS

Socket welding ends	EN 12760
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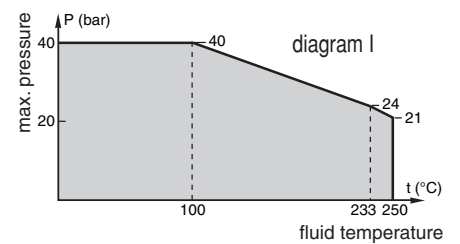
GENERAL

MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body and plug	304 stainless steel
Stuffing box housing	304 stainless steel
Stem, disc	431 stainless steel
Stuffing box packing	PTFE chevrons
Disc seals	PEEK or PTFE or Stainless steel
Valve body seal	PTFE

OTHER MATERIALS

Operator	Aluminium, nickel plated
Screws	Galvanized steel

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



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OPTIONS

Low temperature (media and ambient temperature), PTFE disc seal (-55°C to +70°C), see "15-DIGIT PRODUCT CODE" (*) ⁽¹⁾
Oxygen service, max. fluid pressure 15 bar, max. fluid temperature 150°C, PTFE disc, see "15-DIGIT PRODUCT CODE"
Signalling box, see "15-DIGIT PRODUCT CODE": - Dual mechanical contacts or dual inductive contacts (PNP 3 wires) - Dual inductive contacts ATEX Ex ia (NAMUR 2 wires) - Dual mechanical contact ATEX Ex d IIC T6 (Crouzet contacts type 83101-I-W1, ambient temperature -20°C to +80°C) - Dual mechanical contact ATEX Ex d IIC T6 (Honeywell contact type 1HS1, ambient temperature -55°C to +70°C). Use for low temperature option
For use in explosive atmospheres, zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU: Ex IIC 2GD c x°C (Tx)
CUTR Certification (EAC), see "15-DIGIT PRODUCT CODE"
Valve seat leakage class VI as defined by FCI-2 ANSI B16.104 or Class A or B following EN 12266-1, contact us
Manual override on the top of the actuator (Manual safety device), contact us
Other flange types are available on request
Re-buildable valve program; rebuild services, contact us

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

⁽¹⁾ The minimum ambient temperature of the valve is determined by the limitations of minimum temperature indicated.

SPECIFICATIONS

DN	ext. pipe diameter	flow coefficient Kv								pilot pressure (bar)		operating pressure differential (bar)	operator diameter (mm)	catalogue number		
		mixer				distributor								disc sealing		
		3 → 2	1 → 2	2 → 3	2 → 1	min.	max.	PTFE	PEEK	metal-to-metal						
U - Universal																
15	15	3,3	54	4,4	73	3,5	59	4,6	78	※	10	40	80	W398B237ATA0000	W398B237AVA0000	W398B237AEA0000
20	20	8,0	133	7,4	123	8,1	136	7,7	129	※	10	40	100	W398B24DATA0000	W398B24DAVA0000	W398B24DAEA0000
25	25	11,4	190	11,6	194	12,1	203	11,9	199	※	10	40	100	W398B25DATA0000	W398B25DAVA0000	W398B25DAEA0000
32	32	18,9	316	16,6	278	17,9	299	16,6	278	※	10	40	150	W398B26KATA0000	W398B26KAVA0000	W398B26KAEA0000
40	40	27	450	27	450	27	450	27	450	※	10	40	150	W398B27KATA0000	W398B27KAVA0000	W398B27KAEA0000
50	50	51	850	51	850	51	850	51	850	※	10	40	200	W398B28MATA0000	W398B28MAVA0000	W398B28MAEA0000

※ Minimum pilot pressure varies with differential pressure. See piloting chart preceding page.

HOW TO ORDER

[Configurator - CAD Files](#)

15-DIGIT PRODUCT CODE

W 398 B 2 3 7 A V A00 00

Connection

W = Socket Welded

Product series
398

Revision letter

B = New Stuffing Box and Disc Materials

Function

2 = Universal

Diameter (mm)

- 3 = 15 mm
- 4 = 20 mm
- 5 = 25 mm
- 6 = 32 mm
- 7 = 40 mm
- 8 = 50 mm

Operator Dia. - Piloting Connection Dia.

7 = Ø80 mm - G 1/8

8 = Ø80 mm - NPT 1/8 ⁽¹⁾

D = Ø100 mm - G 1/8

E = Ø100 mm - NPT 1/8 ⁽¹⁾

K = Ø150 mm - G 1/4

L = Ø150 mm - NPT 1/4 ⁽¹⁾

M = Ø200 mm - G 1/4

N = Ø200 mm - NPT 1/4 ⁽¹⁾

⁽¹⁾ Connection = NPTF (ANSI B1.20.3)

Options

A00 = Without

AT1 = ATEX zones 1/21

AT2 = ATEX zones 2/22

LTP = PTFE disc for low temperature (-55°C to +70°C)

MC2 = Dual mechanical Contacts

AD2 = Dual position Contact ATEX Ex d

1S2 = Dual position Contact NAMUR ATEX Ex i

1C2 = Dual inductive contacts PNP 3 wires

02S = PTFE disc for Oxygen service

124 = CUTR Certification

A24 = CUTR Certification for ATEX 1/21

LT1 = AT1 + LTP

LT2 = AT2 + LTP

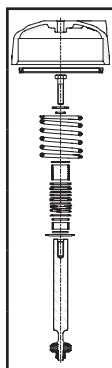
Disc Seal Material

T = PTFE

E = Metal-to-metal (stainless steel)

V = PEEK

SPARE PARTS KITS CODE (*)



		PTFE disc seal	PEEK disc version
DN 15 NC	M39852671700300	M39852671400300	
DN 20 NC	M39852671700600	M39852671400600	
DN 25 NC	M39852671700900	M39852671400900	
DN 32 NC	M39852671701200	M39852671401200	
DN 40 NC	M39852671701500	M39852671401500	
DN 50 NC	M39852671701800	M39852671401800	

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

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INSTALLATION

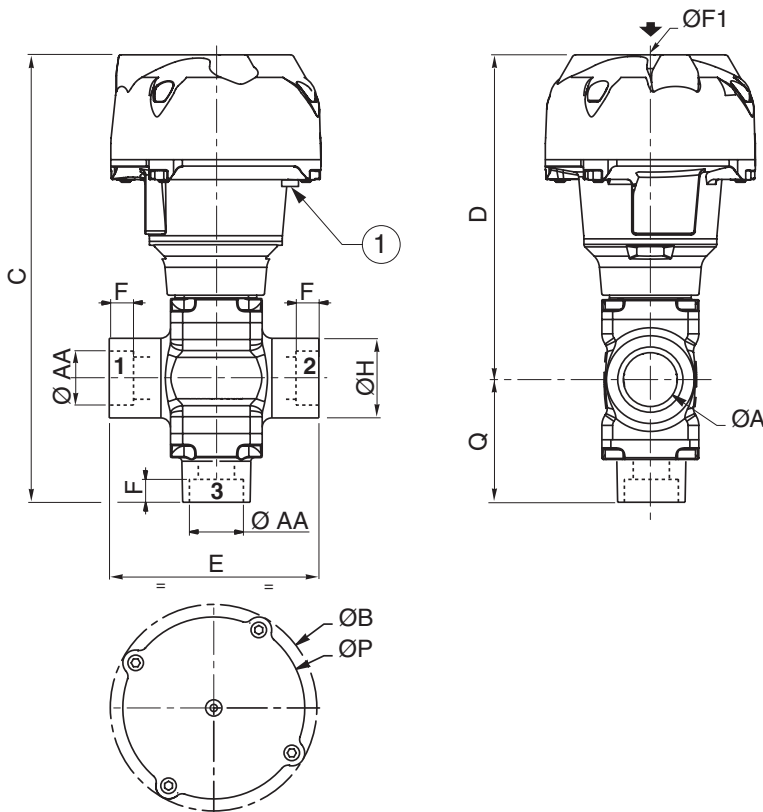
- The valves can be mounted in any position without affecting operation
- Compatible with ASTM 1, 2 and 3 oils
- Check temperature range of valve body and solenoid pilot valves for suitability. For probability of failure, contact us
- Piloting thread connection: Pipe connections (G*) have standard thread according to ISO 228/1 and ISO 7/1.
Pipe connections (G) have standard thread according to ISO 228/1
- Piloting thread connections have standard thread = NPTF (ANSI B1.20.3)
- Declarations of conformity are available on request
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

[Configurator - CAD Files](#)

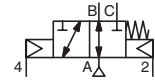
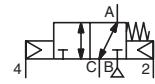


TYPE 01-02-03-04
"W" socked welded ends



① Optical position indicator

type	DN	operator diameter	ØA	ØAA	ØB	C	D	E	F	ØF1	ØH	ØP	Q	weight
01	15	80	15	22,4	110	203,1	151,6	85	9,5	G 1/8	33	95	51,5	1,87
02	20	100	20	27,7	132,5	229,2	170,9	110	11	G 1/8	40	117	58,3	3,51
	25	100	25	34,5	132,5	244,9	180,9	120	12,5	G 1/8	46	117	64	4,23
03	32	150	32	43,2	191	318,2	237,2	145	14,5	G* 1/4	57	172,5	81	9,37
	40	150	40	49,5	191	361,7	259,2	150	16	G* 1/4	65	172,5	102,5	11,9
04	50	200	50	62	247	436	328,5	190	17,5	G* 1/4	75	230	107,5	23,66



FEATURES

- Control of high-pressure fluids
- NAMUR interface pilot for 1/4" solenoid spool valve
- Coaxial-type valve designed for high flow rates with low pressure loss
- Compatible with viscous or abrasive gases and liquids
- Suitable for high pressure applications
- Valve without actuator gland designed for long service life
- Vacuum operation up to 10⁻⁴ mbar
- The valves satisfy article 4.3 of Pressure Equipment Directive 2014/68/EU

GENERAL

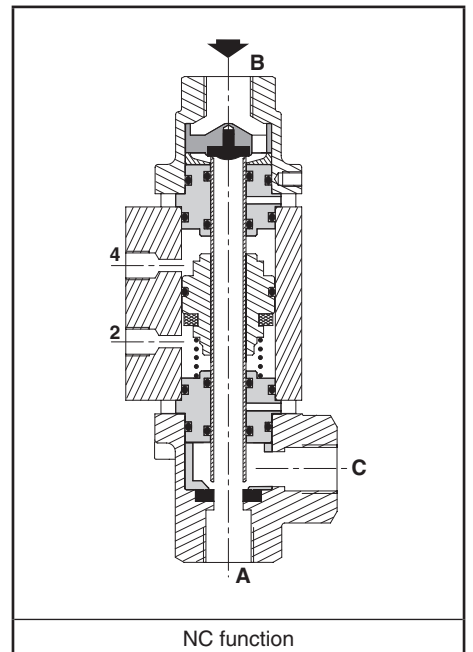
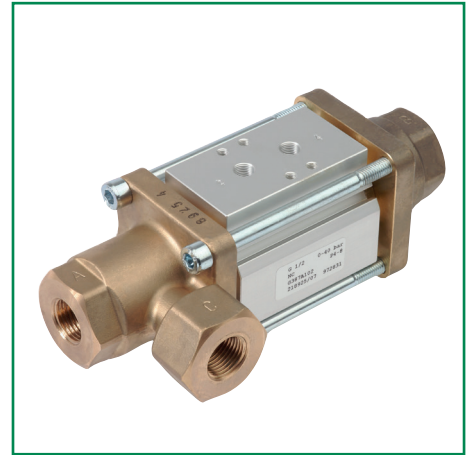
Differential pressure	[1 bar = 100 kPa]
pilot 3/2 NC	A → B : 40 bar, B → A : 12 bar
pilot 5/2	A → B : 40 bar, B → A : 40 bar
Ambient temperature range	- 20°C to + 100°C
Maximum viscosity	
pilot 3/2 NC	500 cSt (mm ² /s)
pilot 5/2	6000 cSt (mm ² /s)
Pilot fluid	Air or oil
Pilot pressure	4 to 8 bar
Pilot fluid temperature	0°C to +60°C
Response time (air operation ΔP = 4 bar)	
opening (ms)	3/8 1/2 3/4 1 30 35 40 50
closing (ms)	50 60 60 70

fluids (*)	temperature range (TS)	seal materials (*)
air and gas groups 1 & 2 water, oil, liquids groups 1 & 2	- 20°C to + 100°C	FPM (fluoroelastomer) PTFE

MATERIALS IN CONTACT WITH FLUID

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

Body	Brass
Internal parts	Brass
Tube	Stainless steel
Seals	FPM
Disc seal	PTFE



SPECIFICATIONS

pipe size	DN	flow coefficient Kv				operating pressure differential (bar)							catalogue number
						max. (PS)							
		A → B		A → C		min.	air/gas/water/oil (*)						
(m ³ /h)	(l/min)	(m ³ /h)	(l/min)		B → A	B → A ⁽¹⁾	A ↔ C	A → B					
NC - Normally closed													
3/8	10	2,2	36,6	1,6	26,6	0	12	40	40	40	40	G387A101	
1/2	15	5,2	86,6	3,6	60	0	12	40	40	40	40	G387A102	
3/4	20	7,5	125	5,6	93,3	0	12	40	40	40	40	G387A103	
1	25	12,2	203,3	10,2	170	0	12	40	40	40	40	G387A104	
NO - Normally open													
3/8	10	2,2	36,6	1,6	26,6	0	12	40	40	40	40	G387A105	
1/2	15	5,2	86,6	3,6	60	0	12	40	40	40	40	G387A106	
3/4	20	7,5	125	5,6	93,3	0	12	40	40	40	40	G387A107	
1	25	12,2	203,3	10,2	170	0	12	40	40	40	40	G387A108	

⁽¹⁾ Pilot 5/2.

OPTIONS

- ATEX 2014/34/EU versions for use in zones 1/21-2/22, categories 2-3, use suffix GD2 (example: G387A101GD2)
- Magnetic position detectors (MR) "T profile":
 - with 2 m PVC lead, 3 wires 0,14 mm², stripped and tinned ends, catalogue number: **88100737**
 - with 5 m PVC lead, 3 wires 0,14 mm², stripped and tinned ends, catalogue number: **88100738**
 - with 0,15 m PVC lead + plug-in male connector Ø M8 - 3 pins, catalogue number: **88100739**
 - with 0,15 m PVC lead + screw-type male connector Ø M12 - 3 pins, catalogue number: **88100740**

INSTALLATION

- The valves can be mounted in any position without affecting operation
- Valves have two mounting holes in body
- Pipe connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS & ACCESSORIES

catalogue number	spare parts kit no.	mounting bracket no.
G387A101/105	C140208	C140130
G387A102/106	C140210	C140131
G387A103/107	C140212	C140132
G387A104/108	C140214	C140133

ORDERING EXAMPLES:

	G 387 A 101
	G 387 A 105
	G 387 A 109
pipe thread	_____
basic number	_____

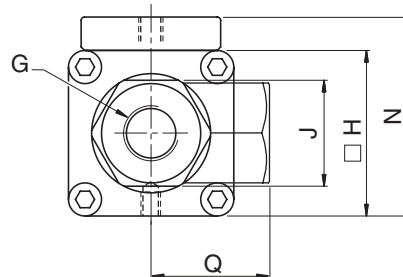
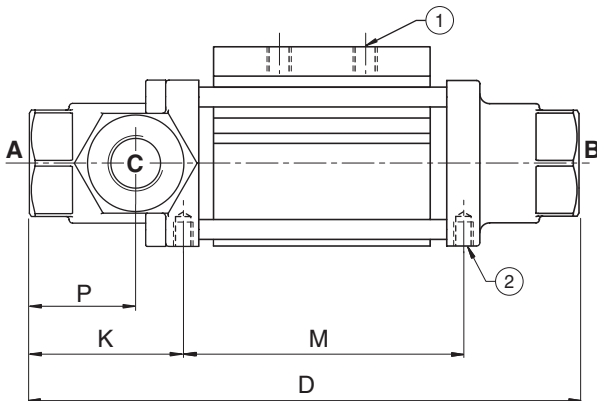
DIMENSIONS (mm), WEIGHT (kg)



TYPE 01
NAMUR interface pilot

ORDERING EXAMPLES KITS:

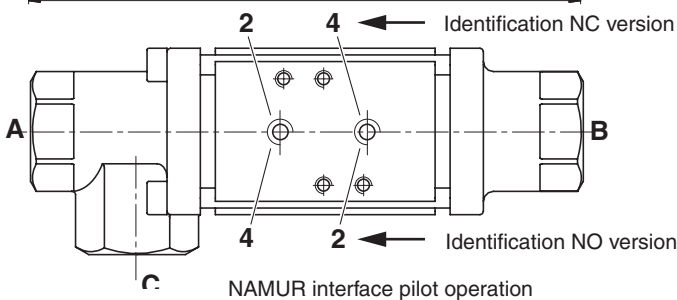
	C140208
	C140212
basic number	_____



Pressure inlet:

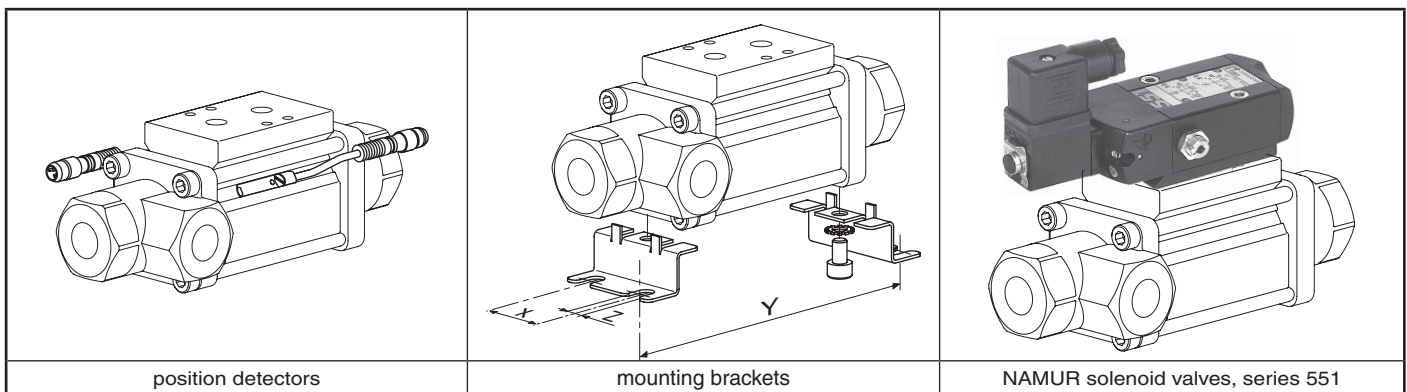
- NC function = port B
- NO function = port C

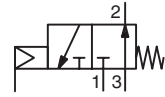
- ① 2 pilot ports G 1/8
- ② 2 mounting holes Ø M5, depth 7 mm



type	G	D	H	J	K	M	N	P	Q	X	Y	Z	weight ⁽¹⁾
01	3/8	166	50	32	46	85	60	32	37	24	111	6	1,5
	1/2	200	70	41	58	103	68	38,5	60	38	136	6	3,0
	3/4	229	80	46	71	111	78	45,5	72	45	151	7	4,4
	1	249	90	55	73	121	88	48	80	50	165	7	6,1

⁽¹⁾ Without mounting brackets.





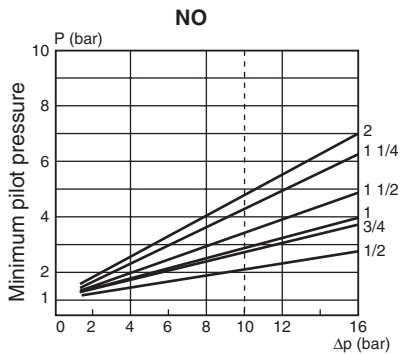
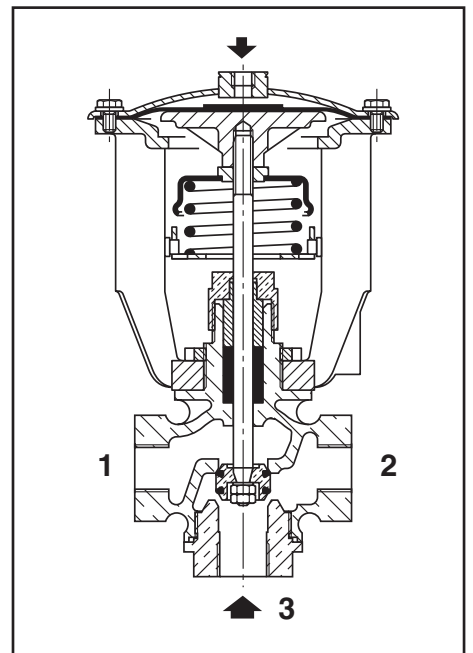
FEATURES

- Differential-action valve for high-pressure fluid control at reduced piloting pressure
- Heavy-duty valve recommended for demanding applications
- Available with several accessories and options to handle the majority of industrial applications
- The valves satisfy Pressure Equipment Directive 2014/68/EU, category 1 (DN > 25) or article 4.3 (DN ≤ 25)

GENERAL

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

Differential pressure	0 to 16 bar [1 bar =100 kPa]
Steam	0 to 10 bar
Maximum allowable pressure	16 bar
Ambient temperature range	-5°C to +60°C
Maximum viscosity	5000 cSt (mm ² /s)
Response time	See overleaf
Pilot fluid	Water, air, filtered
Max. pilot pressure	10 bar
Min. pilot pressure	See graphs (lower pressure: see Options)



MATERIALS IN CONTACT WITH FLUID

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

Valve body	Bronze
Stem	Stainless steel
Disc	Brass
Stuffing-box seal	Braided PTFE
Disc seal	PTFE
Valve body seal	FPM
Third flange connection	Brass or bronze

OTHER MATERIALS

Diaphragm (operator)	NBR
Bonnet (operator)	Steel

SPECIFICATIONS

piping (ISO 6708)		flow coefficient Kv				maximum allowable pressure (bar)	pilot pressure (bar)		catalogue number	reference
pipe size (G*)	DN	2 → 1 (m ³ /h) (l/min)		3 → 2 (m ³ /h) (l/min)			min.	max.		
NO - Normally open										
1/2	15	4,5	75	6	100	16	※	10	16600025	2703-TBT-D2
3/4	20	7,2	120	9,6	160	16	※	10	16600026	2704-TBT-D2
1	25	12	200	16,2	270	16	※	10	16600027	2705-TBT-D2
1 1/4	32	18	300	24	400	16	※	10	16600028	2706-TBT-D2
1 1/2	40	31,8	530	42,9	715	16	※	10	16600029	2707-TBT-D2
2	50	39	650	52,8	880	16	※	10	16600030	2708-TBT-D2

※ The minimum pilot pressure varies according to the differential pressure across the valve. See pilot graphs above.

OPTIONS AND ACCESSORIES

- Guard mounted on valves, 1/2 - 3/4: catalogue number **210555** / 1 - 1 1/4: catalogue number **210556** / 1 1/2 - 2: catalogue number **210557**
- Valves DN 15 to 50 to ATEX 2014/34/EU for categories 2 (II 2 GD c T6 T85°C) and 3 (II 3 GD c T6 T85°C X)
- Dry IP66 contacts
- 2 explosionproof switches with contacts for potentially explosive atmospheres to ATEX:

switch ambient temperature range	number of contacts	DN 15..32 catalogue number	DN 40..50 catalogue number
-20°C to +80°C	1	260657	260658
-20°C to +80°C	2	260660	260661
-55°C to +82°C	1	260663	260664
- Inductive M18 switch, IP66
- Inductive M18 switch, intrinsically safe to ATEX, II 1 GD EEx ia IIC T6 IP66 T85°C
- Manual override on the bonnet of the operator
- Accessories for adjustable response time (flow control, quick exhaust etc.)
- Anti-waterhammer device available with air-oil exchanger
- Backpressure applications possible by off-setting the yoke and using a reinforced spring
- Low pressure control (min. 1 bar) by off-setting the yoke
- Other types of stuffing-boxes are available depending on the nature of the fluid used
- Modifications for special environments (cold, hot, aggressive, marine etc.)
- Oxygen service, catalogue number **970509**, pressure/temperature limited to 15 bar / + 60°C
- Valve body degreased during assembly, catalogue number **970523**

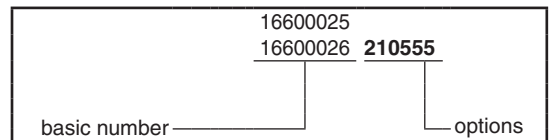
INSTALLATION

- The valves can be mounted in any position, except with the operator downwards
- Pipe connections (G*) have standard combination thread according to ISO 228/1 and ISO 7/1. Pipe connection (G) has standard thread according to ISO 228/1

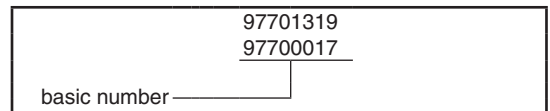
SPARE PARTS KIT & ACCESSORIES

DN	spare parts kit no.			guard catalogue number
	stem and disc unit	stuffing-box unit	NBR diaphragm	
15	97701319	97701320	97700017	88200035
20	97701321	97701320	97700017	88200035
25	97701322	97701320	97700018	88200036
32	97701323	97701324	97700018	88200036
40	97701325	97701324	97700019	88200037
50	97701326	97701327	97700019	88200037

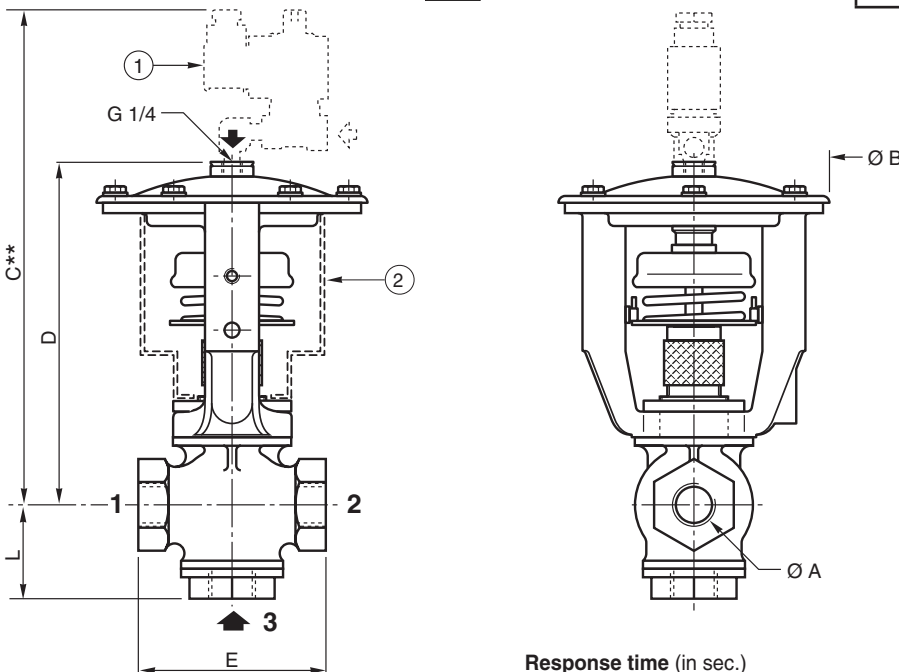
ORDERING EXAMPLES:



ORDERING EXAMPLES KITS:



DIMENSIONS (mm), WEIGHT (kg)



ØA (G*)	ØB	C**	D	E	L	weight ⁽¹⁾
1/2	127	284	165	68	39	3,5
3/4	127	289	170	84	44	4
1	156	306	187	92	52	6
1 1/4	156	311	192	110	57	6,5
1 1/2	200	343	224	125	63	12
2	200	353	234	145	71	15

Response time (in sec.)

ØA (G*)	pilot fluid (6 bar)			
	air		water	
	C	O	C	O
1/2	0,3	1	0,7	2
3/4	0,3	1	0,7	2
1	0,4	1,5	1,5	4
1 1/4	0,4	1,5	1,5	4
1 1/2	0,6	2,5	3	9
2	0,6	2,5	3	9

- ③ Solenoid pilot valves: see page : **83** ["Pressure Operated Valves (2/2)"] (www.asco.com)
- ④ Guard available as accessory, supplied separately or mounted on valve

⁽¹⁾ Weight of valve without pilot.
 ** Maximum value given for reference and related to choice of electric pilot.

- Response time is directly related to the Kv of the solenoid pilot valve. The time indicated at opening (O) and closing (C) of the valve is determined by a pilot (dia. 3 mm) with a Kv of 3,5.
- Consult us for shorter cycle times.