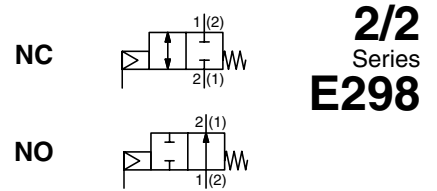




VALVES

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



2/2
Series
E298

FEATURES

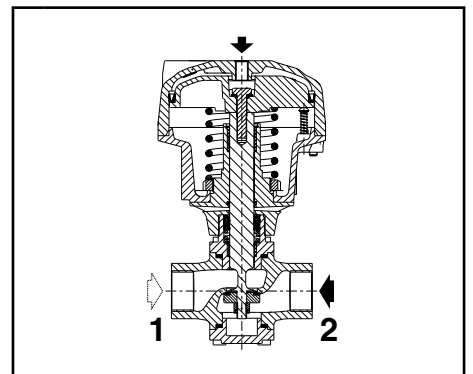
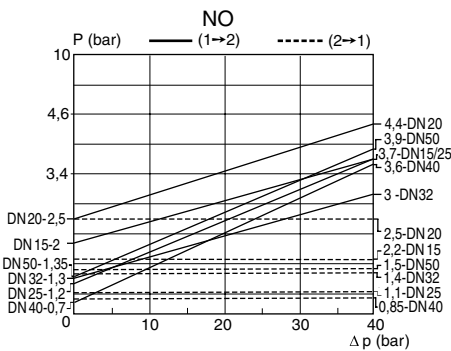
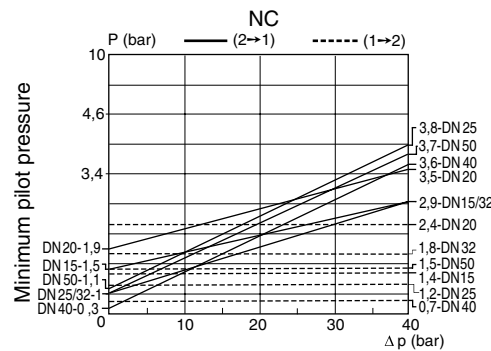
- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, maintenance-free stuffing box, resistant to thermal shock
- Pressure can be applied to any port as needed by the process
- Anti-waterhammer design (fluid entry at orifice 1), recommended for use with liquids
- 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



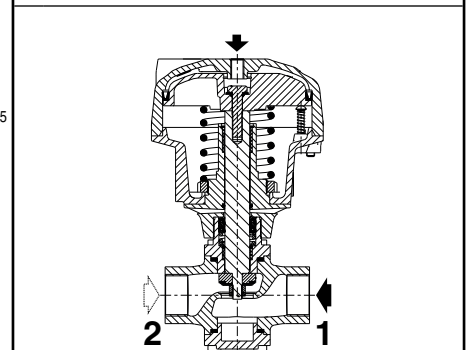
GENERAL

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	-10°C to +233°C	PEEK
DN 32-40-50: air and gas group 2	-10°C to +250°C	metal-to-metal
all DN: water, oil, liquids groups 1 & 2 and steam	-10°C to +180°C	PTFE



NC function



NO function

SPECIFICATIONS

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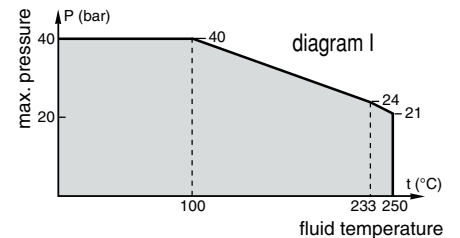
GENERAL

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

piping (ISO 6708)		orifice size	flow coefficient Kv				pilot pressure (bar)		operating pressure differential (bar)	operator diameter (mm)	catalogue number		
pipe size	DN		1 → 2		2 → 1		min.	max.			disc sealing		
(G*)		(mm)	(m³/h)	(l/min)	(m³/h)	(l/min)				PTFE	PEEK	metal-to-metal	
NC - Normally closed													
1/2	15	15	4,4	73	5	83	*	10	40	80	E298B0370TA0000	E298B0370VA0000	E298B0370EA0000
3/4	20	20	7,7	128	8,5	142	*	10	40	100	E298B04D0TA0000	E298B04D0VA0000	E298B04D0EA0000
1	25	25	11,5	192	12	200	*	10	40	100	E298B05D0TA0000	E298B05D0VA0000	E298B05D0EA0000
1 1/4	32	32	18	300	18	300	*	10	40	150	E298B06K0TA0000	E298B06K0VA0000	E298B06K0EA0000
1 1/2	40	40	29	483	29	483	*	10	40	150	E298B07K0TA0000	E298B07K0VA0000	E298B07K0EA0000
2	50	50	57	950	57	950	*	10	40	200	E298B08M0TA0000	E298B08M0VA0000	E298B08M0EA0000
NO - Normally open													
1/2	15	15	3,5	58	3,5	58	*	10	40	80	E298B1370TA0000	E298B1370VA0000	E298B1370EA0000
3/4	20	20	7,2	120	7	117	*	10	40	100	E298B14D0TA0000	E298B14D0VA0000	E298B14D0EA0000
1	25	25	11	183	11	183	*	10	40	100	E298B15D0TA0000	E298B15D0VA0000	E298B15D0EA0000
1 1/4	32	32	18	300	15	250	*	10	40	150	E298B16K0TA0000	E298B16K0VA0000	E298B16K0EA0000
1 1/2	40	40	28,2	470	28,2	470	*	10	40	150	E298B17K0TA0000	E298B17K0VA0000	E298B17K0EA0000
2	50	50	53	883	53	883	*	10	40	200	E298B18M0TA0000	E298B18M0VA0000	E298B18M0EA0000

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

HOW TO ORDER

[Configurator - CAD Files](#)

15-DIGIT PRODUCT CODE

E 298 B 0 3 7 0 V A00 00

Connection

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

Product series

298

Revision letter

B = New Stuffing Box and
Disc Materials

Function

0 = Normally closed
1 = Normally open

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)]

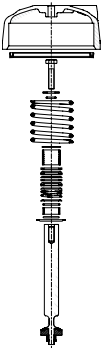
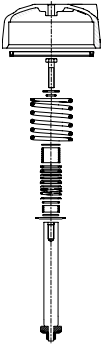
Options

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

SPARE PARTS KITS CODE (*)

		PTFE disc seal	PEEK disc version
	DN 15 NC	M29852671700100	M29852671400100
	DN 20 NC	M29852671700400	M29852671400400
	DN 25 NC	M29852671700700	M29852671400700
	DN 32 NC	M29852671701000	M29852671401000
	DN 40 NC	M29852671701300	M29852671401300
	DN 50 NC	M29852671701600	M29852671401600
	DN 15 NO	M29852671700200	M29852671400200
	DN 20 NO	M29852671700500	M29852671400500
	DN 25 NO	M29852671700800	M29852671400800
	DN 32 NO	M29852671701100	M29852671401100
	DN 40 NO	M29852671701400	M29852671401400
	DN 50 NO	M29852671701700	M29852671401700

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

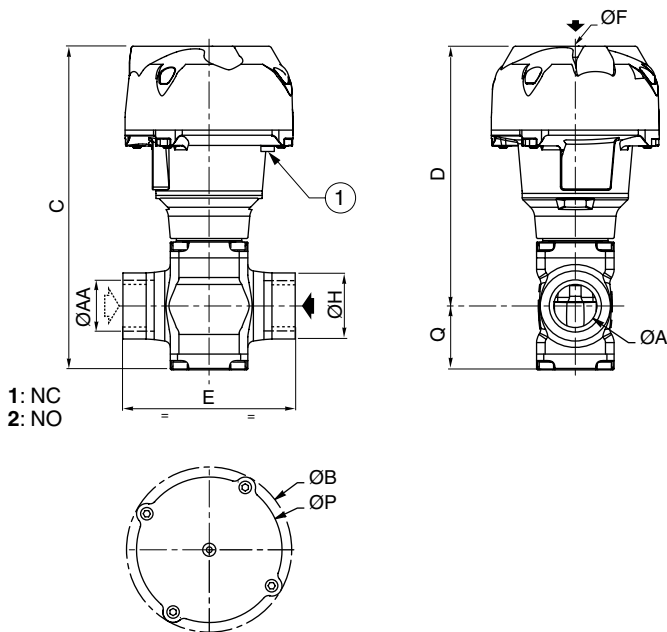
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INSTALLATION

- 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
 "E" threaded connection

 1: NC
 2: NO

① Optical position indicator

type	DN	operator diameter	ØA	ØAA	ØB	C	D	E	ØF	ØH	ØP	Q	weight	
													NC	NO
01	15	80	15	1/2"	110	184,1	151,6	85	G 1/8	33	95	32,5	1,82	1,80
02	20	100	20	3/4"	132,5	209,9	170,9	110	G 1/8	40	117	39	3,44	3,46
	25	100	25	1"	132,5	225,4	180,9	120	G 1/8	46	117	44,5	4,16	4,12
03	32	150	32	1"1/4	191	291,2	237,2	145	G* 1/4	57	172,5	54	9,32	9,26
	40	150	40	1"1/2	191	325,7	259,2	150	G* 1/4	65	172,5	66,5	11,38	11,36
04	50	200	50	2"	247	409	328,5	190	G* 1/4	75	230	80,5	23,48	21,68