

MINI-VALVES

pressure operated stainless steel body

food connections to DIN 11851 - DN 10 to 20

NC













NC function, entry under the disc

FEATURES

- High flow due to angled seat design
- Anti-waterhammer design (fluid entry under the disc)
- External threads to DIN 11851
- Vacuum operation up to 10⁻² mbar
- Piston-type operators 32 mm dia. rotatable through 360°
- Valve body pickled in nitric/fluoric acid bath (NET-INOX passivation treatment)
- High performance, maintenance-free stuffing box
- The valves satisfy Pressure Equipment Directive 97/23/EC, article 3.3 The valves in conformity with IEC 61508 Standard (2010 route $2_{\rm H}$ 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 (mm²/s) Pilot fluid Filtered air or water (1)

Max. pilot pressure 10 bar Min. pilot pressure See below Pilot fluid temperature -10°C to +60°C Response time See page V402-7

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	

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified All AISI 316L

Valve body AISI 316L (2) Stuffing box housing AISI 316L Stem AISI 316L Disc Stuffing box packing AISI 316L PTFE chevrons

Wiper seal **FPM** Disc seal **PTFE** Valve body seal **PTFE**

OTHER MATERIALS

Operator Glass fibre filled PA Optical position indicator Optional on NC valves

For dia. 32 operators: At service fluid temperatures inside the valve body above 100°C, it is prohibited to pilot the valve with water.

(2) NET-INOX passivation treatment included.

SPECIFICATIONS

piping			flow		pilot		•	rating pressure erential (bar)	operator diameter	catalogue	
nine		coefficient		pressure				max.		number	
pipe size	DN		Kv		(bar)		air, inert gas, aggressive fluids	water, oil, liquids,	steam (*)		
DIN 11851		(m³/h)	(l/min)	min.	max.		(*)	aggressive liquids (*)	(≤184°C)	(mm)	
NC - Normally closed, entry under the disc (9)											
RD 28 x 1/8	10	2,8	47	4	10	0	16	16	10	32	Y290A791
RD 34 x 1/8	15	4,1	68	4	10	0	12	12	10	32	Y290A792
RD 44 x 1/6	20	6,5	108	8 4 10		0	6	6	6	32	Y290A793
NO - Normally open, entry under the disc											
RD 28 x 1/8	10	2,8	47	IX (*)	10	0	16	16	10	32	Y290A794
RD 34 x 1/8	15	4,1	68	IX (*)		0	16	16	10	32	Y290A795
RD 44 x 1/6	20	6,5	108	IX (*)	10	0	16	16	10	32	Y290A796
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)											
RD 28 x 1/8	10	2,8	47	X (*)	10	0	10	-	10	32	Y290A797
RD 34 x 1/8	15	4,1	68	X (*)	10	0	10	-	10	32	Y290A798
RD 44 x 1/6	20	6,5	108	X (*)	10	0	10	-	10	32	Y290A799

^(*) Minimum pilot pressure varies with differential pressure, see page V402-7.

Calculation of the minimum pilot pressure at max. ΔP with allowable backpressure, contact us (backpressure not recommended with liquids as waterhammer may occur).



OPTIONS AND ACCESSORIES (see page V435/V436)

- Optical position indicator, NC function
- Oxygen service, pressure limited to 15 bar, temperature limited to + 60°C
- Vacuum applications up to 1,33 10⁻³ mbar
- ATEX 94/9/EC versions for potentially explosive atmospheres
- · Other pipe connections are available on request

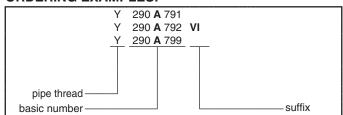
INSTALLATION

- 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 have standard threads to DIN 11851
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS

DN	spare parts kit no.
	Ø 32 mm
10	C140100
15	C140101
20	C140102

ORDERING EXAMPLES:



ORDERING EXAMPLES KITS:

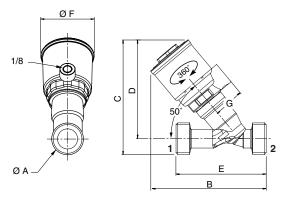
C140102 basic number-

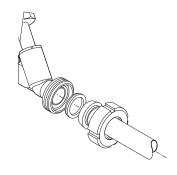
DIMENSIONS (mm), **WEIGHT** (kg) □





TYPE 01 32 mm operator Fluid entry: under the disc at 2 above the disc at 1





type	operator diameter	ØA	В	С	D	E	ØF	G	weight (1)
01 32 mm		RD 28 x 1/8	102,5	101,7	87,7	80	43,5	27	0,41
	32 mm	RD 34 x 1/8	104,9	105,8	88,8	90	43,5	27	0,46
		RD 44 x 1/6	109,6	110,4	88,4	110	43,5	27	0,68

⁽¹⁾ Weight of valve without pilot.

Solenoid pilot valves: see V439 (32 mm operator)

