

# **MINI-VALVES**

pressure operated stainless steel body

food connections to DIN 11851 - DN 10 to 20

NC



NO



## **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<sup>-2</sup> 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 2014/68/EU, article 4.3
- The valves in conformity with IEC 61508 Standard (2010 route 2<sub>H</sub> version) certified with integrity levels: SIL 2 for HFT = 0

#### **GENERAL**

See «SPECIFICATIONS» [1 bar =100 kPa] **Differential pressure** 

Maximum allowable pressure 16 bar

Ambient temperature range -10°C to +60°C **Maximum viscosity** 600 cSt (mm<sup>2</sup>/s) Pilot fluid Filtered air or water (1)

Max. pilot pressure 10 bar Min. pilot pressure See below -10°C to +60°C Pilot fluid temperature

Response time See page 7 (www.asco.com)

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** AISI 316L Stuffing box packing PTFE chevrons

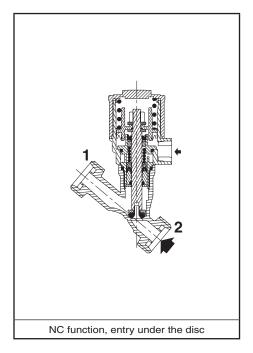
Wiper seal **FPM** Disc seal **PTFE** Valve body seal **PTFF** 

**OTHER MATERIALS** 

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

- 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 pressure				ating pressure erential (bar)	operator	catalogue	
nine		coefficient						max.		diameter	number
pipe size	DN	Kv		(0)	(bar)		air, inert gas, aggressive fluids	water, oil,	steam (*)		
DIN 11851	]	(m³/h)	(l/min)	min.	. max.		(*)	aggressive liquids (*)	(≤184°C)	(mm)	
NC - Normally closed, entry under the disc ®											
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		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 (*)	10	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: 7 (www.asco.com)

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All leaflets are available on: www.asco.com

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Calculation of the minimum pilot pressure at max.  $\Delta P$  with allowable backpressure, contact us (backpressure not recommended with liquids as waterhammer may



# OPTIONS AND ACCESSORIES [see pages: 37 (www.asco.com) / 43 (www.asco.com)]

- · Optical position indicator, NC function
- Oxygen service, pressure limited to 15 bar, temperature limited to + 60°C
- Vacuum applications up to 1,33 10<sup>-3</sup> mbar
- ATEX 2014/34/EU versions for potentially explosive atmospheres (www.asco.com)
- Other pipe connections are available on request

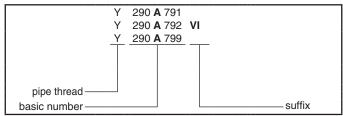
### **INSTALLATION**

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

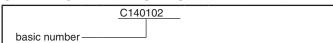
#### **SPARE PARTS KITS**

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

#### **ORDERING EXAMPLES:**



#### **ORDERING EXAMPLES KITS:**

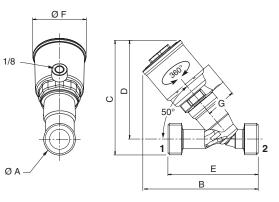


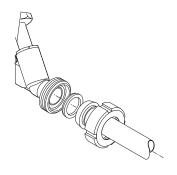
## **DIMENSIONS** (mm), **WEIGHT** (kg)





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

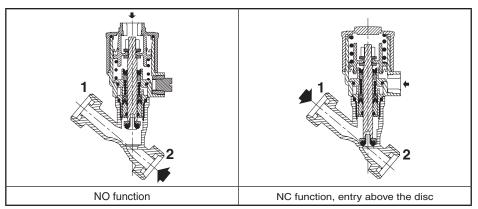




type	operator diameter	ØA	В	С	D	E	ØF	G	weight (1)
01		RD 28 x 1/8	102,5	101,7	87,7	80	43,5	27	0,41
	32 mm	RD 34 x 1/8	104,9	105,8	88,8	90	43,5	27	0,46
		RD 44 x 1/6	109,6	110,4	88,4	110	43,5	27	0,68

<sup>(1)</sup> Weight of valve without pilot.

Solenoid pilot valves, see page: 49 (www.asco.com) [32 mm operator]



All leaflets are available on: www.asco.com

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