

MINI-VALVES

pressure operated stainless steel body threaded ports, G 1/2 to 1 NC

NO



FEATURES

- · High flow due to angled seat design
- Anti-waterhammer design (fluid entry under the disc)
- External threads to ISO 228/1 for industrial applications
- Vacuum operation up to 10⁻² mbar
- Piston-type operators 32 mm dia. rotatable through 360°
- 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_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 -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

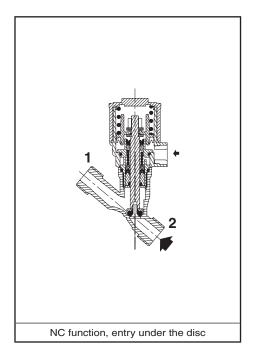
Valve body AISI 316L Stuffing box housing AISI 316L Stem Stainless steel Disc Stainless steel Stuffing box packing PTFE chevrons

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

OTHER MATERIALS

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





SPECIFICATIONS

piping (ISO 6708)		flow		pilot pressure			0	operator diameter	catalogue		
nine		coefficient Kv									
pipe size	DN	KV.		(bar)		min	air, inert gas, aggressive fluids	water, oil, liquids,	steam (*)		number
(G)		(m³/h) (l/min)		min.	max.		(*)	aggressive liquids (*)	(≤184°C)	(mm)	
NC - No	NC - Normally closed, entry under the disc ®										
1/2	10	2,8	47	4	10	0	16	16	10	32	U290A791
3/4	15	4,1	68	4	10	0	12	12	10	32	U290A792
1	20	6,5	108	4 10		0	6	6	6	32	U290A793
NO - No	NO - Normally open, entry under the disc										
1/2	10	2,8	47	IX (*)		0	16	16	10	32	U290A794
3/4	15	4,1	68	IX (*)	10	0	16	16	10	32	U290A795
1	20	6,5	108	IX (*)	10	0	16	16	10	32	U290A796
NC - No	NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)										
1/2	10	2,8	47	X (*)		0	10	-	10	32	U290A797
3/4	15	4,1	68	X (*)	10	0	10	-	10	32	U290A798
1	20	6,5	108	X (*)	10	0	10	-	10	32	U290A799

(*) Minimum pilot pressure varies with differential pressure, see page: 7 (www.asco.com)

 $^{^{(1)}}$ For dia. 32 operators: At service fluid temperatures inside the valve body above 100°C, it is prohibited to pilot the valve with water.

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 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 10⁻³ mbar
- · NET-INOX passivation treatment
- 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 connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

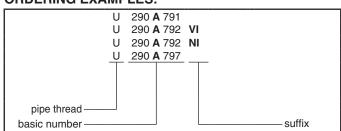
SPARE PARTS KITS

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

ORDERING EXAMPLES:

ORDERING EXAMPLES KITS:

basic number-



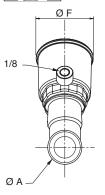
C140102

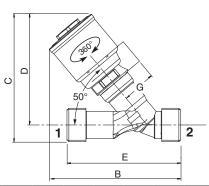
DIMENSIONS (mm), **WEIGHT** (kg)





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	1/2	102,5	98,2	87,7	80	43,5	27	0,36
		3/4	104,9	102	88,8	90	43,5	27	0,43
		1	109,5	104,9	88,4	110	43,5	27	0,54

⁽¹⁾ Weight of valve without pilot.

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

