

2/2 VALVES PRESSURE OPERATED MOTORISED OPERATED

Product Index



Function	Δ P		Temperature			Pipe connections	Series	Page
	min. (bar)	max. (bar)	min. (°C)	max. (°C)				
----- MOTORISED OPERATED -----								
STAINLESS STEEL BODY								
-	0	6	-10	+90/+145	Motorised valves	3/8..3/4	E290	9
PRESSURE OPERATED								
Ranges/Technical information/Applications							290/390/298/398	1
----- BRONZE BODY -----								
NC-NO	0	16	-10	+184	(IEC 61508)	3/8..2 1/2	E290	15
NC-NO	0	16	-10	+184	Flanged (IEC 61508)	DN 25..50	T290	35
NC-NO	0	16	-10	+184		1/2 .. 2	165 (AD/TBT)	77
NC	0	16	-10	+184	Flanged	DN 15..80	165 (AD/BBT)	79
STAINLESS STEEL BODY								
NC-NO	0	16	-10	+184		1/2..2 1/2	E290	15
NC-NO	0	16	-10	+184	External thread (IEC 61508)	1/2..1	U290	23
NC-NO	0	16	-10	+184	External thread, food connections DIN 11851 (IEC 61508)	RD 28x1/8 .. 44x1/6	Y290	25
NC-NO	0	16	-10	+184	Clamp / butt welding (IEC 61508)	DN 10..65	S290	27
NC-NO	0	40	-25	+250	(IEC 61508)	1/2 .. 2	E298	53
NC-NO	0	40	-25	+250	Flanged (DIN and ANSI Class 300) (IEC 61508)	DN 15..50	T298	57
NC-NO	0	40	-25	+250	Socket welding ends (IEC 61508)	DN 15..50	S298	61
NC-NO	0	40	-20	+100	Coaxial	3/8 .. 1	287	75
STAINLESS STEEL BODY, IN CONFORMITY WITH REGULATION (EC) no. 1935-2004								
NC-NO	0	16	-10	+184		1/2..2 1/2	E290	19
NC-NO	0	16	-10	+184	Clamp / butt welding (IEC 61508)	DN 10..65	S290	31
BRASS BODY								
NC-NO	0	40	-20	+100	Coaxial	3/8 .. 1	287	75
ACCESSORIES AND OPTIONS								
Options and accessories for series 290/390 (standard/ATEX 2014/34/EU)							www.asco.com / www.asco.com	37/43
Options and accessories for series 298/398 (standard/ATEX 2014/34/EU)							www.asco.com / www.asco.com	65/67
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SOLENOID PILOT VALVES								
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298/398: 356 solenoid valves - 80 and 100 mm operators / 314 and 356 solenoid valves - 150 and 200 mm operators							www.asco.com / www.asco.com	71/73
314 solenoid valves - AD valve operators							AD	83
(Potentially explosive atmospheres, see page: IV)								

(Potentially explosive atmospheres, see page: IV)

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pipe connections										body material	DN	min. operating pressure differential (bar)	max. operating pressure differential (bar)						max. allowable pressure (bar)	fluid temperature range		power consumption		series	I&M Sheet	page									
- internal thread - external thread - butt welding - external thread DIN 11851													- flanged - clamp - socket welding ends							min. (°C)	max.	mean	hold												
3/8 (RD28x1/8)	- 10	1/2 (RD34x1/8)	- 15	3/4 (RD44x1/6)	- 20	1	- 25	1 1/4	- 32	1 1/2	- 40	2	- 50	2 1/2	- 65	3	- 80	- 100	- 125	- 150	bronze	cast iron	carbon steel	stainless steel	st. steel, AISI 316L										
MOTORIZED VALVES (HOLDING POSITION)																																			
													10 ↓ 20	0	6 ↓ 4	10 ⁻²	-	-	-	10	-10	+90	12	0	E290									9	
NORMALLY CLOSED (NC)																																			
													10 ↓ 65	0	16 ↓ 2	10 ⁻²	16 ↓ 2	10 ↓ 2	-	16	-10	+184	-	-	E290									15	
													10 ↓ 65	0	16 ↓ 2	10 ⁻²	16 ↓ 2	10 ↓ 2	-	16	-10	+184	-	-	E290									19	
													10 ↓ 20	0	16 ↓ 6	10 ⁻²	16 ↓ 6	10 ↓ 6	-	16	-10	+184	-	-	U290									23	
													10 ↓ 20	0	16 ↓ 6	10 ⁻²	16 ↓ 6	10 ↓ 6	-	16	-10	+184	-	-	Y290									25	
													10 ↓ 65	0	16 ↓ 1	10 ⁻²	16 ↓ 1	10 ↓ 1	-	16	-10	+184	-	-	S290									27	
													10 ↓ 65	0	16 ↓ 1	10 ⁻²	16 ↓ 1	10 ↓ 1	-	16	-10	+184	-	-	S290									31	
													25 ↓ 50	0	16 ↓ 2,5	16 ↓ 2,5	-	16 ↓ 2,5	10	-	16	-10	+184	-	-	T290									35
																						-	-	E298										53	
													15 ↓ 50	0	40	40	10 ⁻²	40	-	40	-25	+250	-	-	T298										57
															-	-	-	24	24	40	-25	+223	-	-	S298										61
													15 ↓ 50	0	16	16		16	10		16	-10	+184	-	-										77 (AD/TBT)
													15 ↓ 80	0	16	16		16	10		16	-10	+184	-	-	165								79 (AD/BBT)	
													10 ↓ 25	0	40 12	40 12		40 12	-		-	-20	+100	-	-	287									75 (coaxial)

pipe connections										body material		DN	min. operating pressure differential (bar)	max. operating pressure differential (bar)						max. allowable pressure (bar)	fluid temperature range		power consumption		series	I&M Sheet	page										
- internal thread - external thread - butt welding - external thread DIN 11851														- flanged - clamp - socket welding ends							(°C)		(W)														
3/8 (RD28x18)	- 10	1/2 (RD34x18)	- 15	3/4 (RD44x16)	- 20	- 25	- 32	- 40	- 50	- 65	- 80	- 100	- 125	- 150	bronze	cast iron	carbon steel	stainless steel	st. steel, AISI 316L	air, inert gases	water, oil	liquids	vacuum (mbar)	hot water	steam	superheated water	max. min.	min. max.	mean	hold	series						
NORMALLY OPEN (NO)																																					
																				10 ↓ 65	0	16 ↓ 7	10 ⁻²	16 ↓ 7	10 ↓ 7		16	-10	+184	-		-	E290		15		
																				10 ↓ 65	0	16 ↓ 7	10 ⁻²	16 ↓ 7	10 ↓ 7		16	-10	+184	-		-	E290		19		
																				10 ↓ 20	0	16	10 ⁻²	16	10		16	-10	+184	-		-	Y290		25		
																				10 ↓ 65	0	16 ↓ 7	10 ⁻²	16 ↓ 7	10 ↓ 7		16	-10	+184	-		-	S290		27		
																				10 ↓ 65	0	16 ↓ 7	10 ⁻²	16 ↓ 7	10 ↓ 7		16	-10	+184	-		-	S290		31		
																				25 ↓ 50	0	16 ↓ 7	16 ↓ 7	-	-	16 ↓ 7	10 ↓ 7		16	-10	+184	-		-	T290		35
																					15 ↓ 50	0	40	40	10 ⁻²	40	-	-	40	-25	+250	-		-	E298		53
																							-	-	24	24	40	-25	+223	-		-	T298		57		
																							-	-			40	-25	+223	-		-	S298		61		
																					15 ↓ 50	0	16	16		16	10		16	-10	+184	-		-	165		77 (AD/TBT)
																					10 ↓ 25	0	40 12	40 12		40 12	-		-	-20	+100	-		-	287		75 (coaxial)

PRESSURE OPERATED VALVES

		I&M Sheet	DN	group II									
				dusts	gas			dusts	gas			dusts	gas
				zone 22	zone 2			zone 21	zone 1			zones 0-20	
page	series			IIA	IIB	IIC		IIA	IIB	IIC			
SERIES 290 VALVES ATEX 2014/34/EU (see page: 43)													
15	E290		10 → 65									-	
19	E290		10 → 65								-	-	
23	U290		10 → 20									-	
25	Y290		10 → 20									-	
27	S290		10 → 65									-	
31	S290		10 → 65								-	-	
35	T290		25 → 50									-	
SERIES 298 VALVES ATEX 2014/34/EU (see page: 67)													
53	E298		15 → 50									-	
57	T298		15 → 50									-	
61	S298		15 → 50									-	
SERIES 287 VALVES ATEX 2014/34/EU (see page: 75)													
75	287		10 → 25									-	
TYPE AD VALVES ATEX 2014/34/EU (see pages: 77/79)													
77	165 - AD/TBT		15 → 50									-	
79	165 - AD/BBT		15 → 80									-	

SOLENOID PILOT VALVES

  		operators (See Explosionproof Solenoids section)		group II										
				dusts		gas / dusts								
				zone 22		zones 2 - 22		zones 1 - 21						
				3 D Ex tc				2 G Ex d 2 D Ex tb		2 G Ex e mb 2 D Ex tb			2 G Ex mb 2 D Ex mb	
page	series	power coil (W)		IIC T115°C Dc IP65X		IIC T6..T4 Gb /IIIC Db IP66/67		IIC T6..T3 Gb /Ex tb IIIC Db IP66/67			V1035 (IIC T5..T3 Gb /IIIC Db IP67)			
		AC (~)	DC (=)	SG (XM5)	SG (C25)	SG (MXX-II)	(WS)NF (MXX)		(WS)EM (MXX)				PV (EM5)	PV (EMXX)
49	189 banjo	2,5	3										4/3	
	356	4	6,9										4/6,9	
51	356	5	6,9										4/6,9	
	314	10,1						10,5		10,5				10,5
			11,6					11,2		11,2				11,2
71	356	4	6,9										4/6,9	
73	314	10,1						10,5		10,5				10,5
			11,6					11,2		11,2				11,2
83	314	10,1						10,5		10,5				10,5
			11,6					11,2		11,2				11,2

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