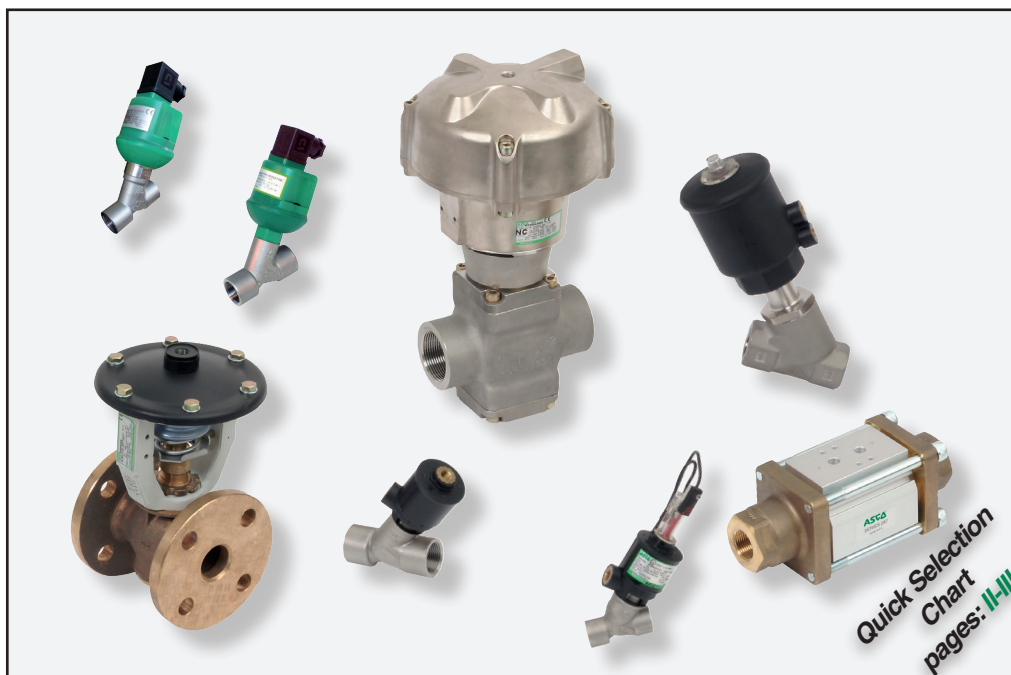


2/2 VALVES PRESSURE OPERATED MOTORISED OPERATED

Product Index



Function	ΔP		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	E290	9
PRESSURE OPERATED							
Ranges/Technical information/Applications						290/390/298/398	1
BRONZE BODY							
NC-NO	0	16	-10	+184	(IEC 61508)	E290	15
NC-NO	0	16	-10	+184	Flanged (IEC 61508)	T290	35
NC-NO	0	16	-10	+184		165 (AD/TBT)	77
NC	0	16	-10	+184	Flanged	165 (AD/BBT)	79
STAINLESS STEEL BODY							
NC-NO	0	16	-10	+184		E290	15
NC-NO	0	16	-10	+184	External thread (IEC 61508)	U290	23
NC-NO	0	16	-10	+184	External thread, food connections DIN 11851 (IEC 61508)	Y290	25
NC-NO	0	16	-10	+184	Clamp / butt welding (IEC 61508)	S290	27
NC-NO	0	40	-25	+250	(IEC 61508)	E298	53
NC-NO	0	40	-25	+250	Flanged (DIN and ANSI Class 300) (IEC 61508)	T298	57
NC-NO	0	40	-25	+250	Socket welding ends (IEC 61508)	S298	61
NC-NO	0	40	-20	+100	Coaxial	287	75
STAINLESS STEEL BODY, IN CONFORMITY WITH REGULATION (EC) no. 1935-2004							
NC-NO	0	16	-10	+184		E290	19
NC-NO	0	16	-10	+184	Clamp / butt welding (IEC 61508)	S290	31
BRASS BODY							
NC-NO	0	40	-20	+100	Coaxial	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
Air/oil exchanger for type AD valves						218	81
SOLENOID PILOT VALVES							
Valve piloting solutions						290/390	47
290/390: 189/banjo and 356 solenoid valves - 32, 50 and 63 mm operators / 356 and 314 solenoid valves - 90 and 125 mm operators						www.asco.com / www.asco.com	49/51
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)							

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Pressure Operated Valves (2/2) / Motorised Operated Valves (2/2) - I

pipe connections			body material			DN	min. operating pressure differential (bar)	max. operating pressure differential (bar)					max. allowable pressure (bar)	fluid temperature range (°C)		power consumption (W)		series	I&M Sheet	page		
- internal thread - external thread - butt welding - external thread DIN 11851			- flanged - clamp - socket welding ends					air, inert gases	water, oil liquids	vacuum (mbar)	hot water	steam		superheated water	min.	max.	mean				hold	
3/8 (RD28x1/8)	- 10		bronze	cast iron	carbon steel	stainless steel	st. steel, AISI 316L															
MOTORISED 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			165		77 (AD/TBT)	
							15 ↓ 80	0	16	16	16	10		16	-10	+184					79 (AD/BBT)	
							10 ↓ 25	0	40 12	40 12	40 12	-	-	-	-20	+100	-	-	287		75 (coaxial)	

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pipe connections				body material		max. operating pressure differential (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) min. _____ max. _____		(W) mean _____ hold _____		series	I&M Sheet	page
3/8 (RD28x1/8)	- 10			bronze		DN	min. operating pressure differential (bar)	air, inert gases	water, oil	liquids	vacuum (mbar)	hot water	steam	superheated water	max. allowable pressure (bar)	min.	max.	mean	hold	series	I&M Sheet	page
1/2 (RD34x1/8)	- 15			cast iron																		
3/4 (RD44x1/6)	- 20			carbon steel																		
1	- 25			stainless steel																		
1 1/4	- 32			st. steel, AISI 316L																		
1 1/2	- 40																					
2	- 50																					
2 1/2	- 65																					
3	- 80																					
	- 100																					
	- 125																					
	- 150																					
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
							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)

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PRESSURE OPERATED VALVES

		I&M Sheet	DN	group II								
				dusts zone 22	gas zone 2			dusts zone 21	gas zone 1			dusts 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 zone 22	gas / dusts					
page	series	power coil (W)		3 D Ex tc	zones 2 - 22	zones 1 - 21				
		AC (~)	DC (=)			2 G Ex d 2 D Ex tb	2 G Ex e mb 2 D Ex tb			
				IIC T115°C Dc IP65X		IIC T6..T4 Gb /IIC Db IP66/67	IIC T6..T3 Gb /Ex tb IIC Db IP66/67	V1035 (IIC T5..T3 Gb /IIC Db IP67)		
		SG (XM5)	SG (C25)	SG (MXX-I)		(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	11,6			10,5 11,2	10,5 11,2			10,5 11,2
71	356	4	6,9							4/6,9
73	314	10,1	11,6			10,5 11,2	10,5 11,2			10,5 11,2
83	314	10,1				10,5 11,2	10,5 11,2			10,5 11,2
			11,6							