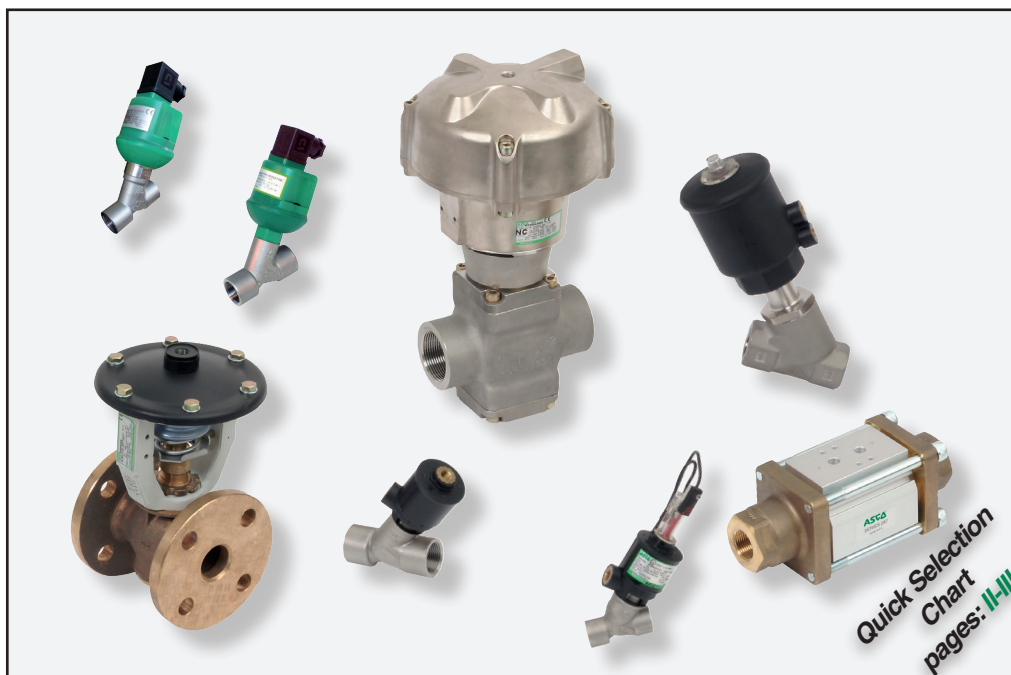


2/2 VALVES PRESSURE OPERATED MOTORISED OPERATED

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	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)

All leaflets are available on: www.asco.com

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

pipe connections				body material				max. operating pressure differential (bar)				fluid temperature range		power consumption		series	I&M Sheet	page														
38 (RD28x1/8)	1/2 (RD34x1/8)	3/4 (RD44x1/6)	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	DN	min. operating pressure differential (bar)	air, inert gases	water, oil	liquids	vacuum (mbar)	hot water	steam	superheated water	max. allowable pressure (bar)	min. (°C)	max. (°C)	mean
MOTORIZED VALVES (HOLDING POSITION)																																
																	10	0	6	10 ²	-	-	-	10	-10	+90	12	0	E290		9	
NORMALLY CLOSED (NC)																																
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	E290		15	
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	E290		19	
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	U290		23	
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	Y290		25	
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	S290		27	
																	10	0	16	10 ²	16	10	-	16	-10	+184	-	-	S290		31	
																	25	0	16	16	-	16	10	-	16	-10	+184	-	-	T290		35
																	15	0	40	40	10 ²	40	-	40	-25	+250	-	-	E298		53	
																	15	0	-	-	-	24	24	40	-25	+223	-	-	T298		57	
																	15	0	-	-	-	-	-	-	-	-	-	-	S298		61	
																	15	0	16	16	16	10	16	-10	+184	-	-	165		77 (AD/TBT)		
																	15	0	16	16	16	10	16	-10	+184	-	-			79 (AD/BBT)		
																	10	0	40	40	40	-	-	-20	+100	-	-	287		75 (coaxial)		

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pipe connections			body material		max. operating pressure differential (bar)		max. allowable pressure (bar)		fluid temperature range		power consumption		series	I&M Sheet	page					
3/8 (RD28x1/8)	1/2 (RD34x1/8)	3/4 (RD44x1/6)	bronze	cast iron	air, inert gases	water, oil liquids	vacuum (mbar)	hot water	steam	superheated water	min. (°C)	max. (°C)				mean (W)	hold			
- 10	- 15	- 20	- 25	- 32	- 40	- 50	- 65	- 80	- 100	- 125	- 150	pipe connections		body material						
1	1 1/4	1 1/2	2	2 1/2	3	min. operating pressure differential (bar)		max. operating pressure differential (bar)		max. allowable pressure (bar)		fluid temperature range		power consumption						
- internal thread	- external thread	- butt welding	- external thread DIN 11851	- flanged	- clamp	- socket welding ends														
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	-	-	-	24	24	40	-25	+223	-	-	T298	57
							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 zones 2 - 22		zones 1 - 21					
page	series	power coil (W)		3 D Ex tc	IIC T115°C Dc IP65X		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	
		AC (~)	DC (=)	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	10,5				10,5
71	356	4	6,9	☒			11,2	11,2				4/6,9
73	314	10,1	11,6			☒	10,5	10,5				10,5
83	314	10,1	11,6			☒	11,2	11,2				11,2
						☒	10,5	10,5				10,5
			11,6			☒	11,2	11,2				11,2