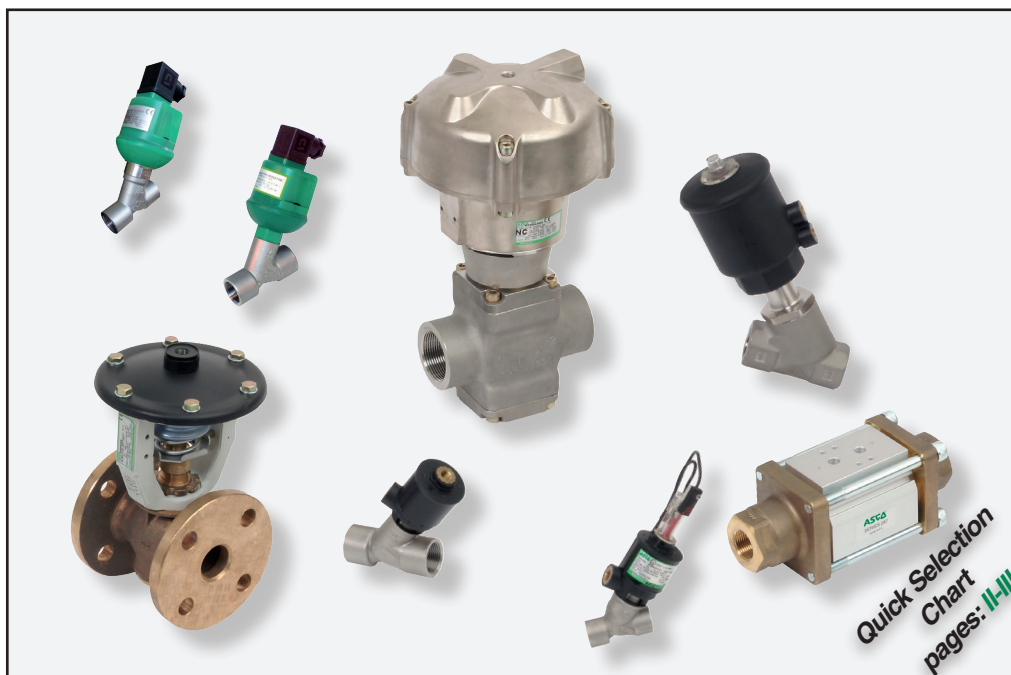


2/2 VALVES PRESSURE OPERATED MOTORISED OPERATED

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)	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		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	
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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pipe connections					body material					max. operating pressure differential (bar)			fluid temperature range		power consumption		series	I&M Sheet	page																						
- internal thread		- flanged		- external thread		- clamp		- butt welding		- socket welding ends		- external thread DIN 11851		°C		(W)																									
3/8 (RD28x1/8)	- 10	1/2 (RD34x1/8)	- 15	3/4 (RD44x1/8)	- 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	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		
MOTORISED 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	-	-	165	79 (AD/BBT)		
																											10	0	40	40	40	-	-	-20	+100	-	-	287	75 (coaxial)		

pipe connections				body material				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																								
3/8 (RD28x1/8)	1/2 (RD34x1/8)	3/4 (RD44x1/6)	1	1 1/4	1 1/2	2	2 1/2	3	100	125	150	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 (W)	hold (W)	series	I&M Sheet	page	
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	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 (=)	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	
	356	5	6,9	☒						4/6,9	
51	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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IV - Pressure Operated Valves (2/2)



青岛秉诚自动化设备有限公司
地址：中国·青岛市重庆南路99号海尔云街甲3号楼7F

服务热线：4006-918-365
网址：<http://www.ivalve.com>

传真：(86-532)585-10-365
Email：sales@bechinas.com