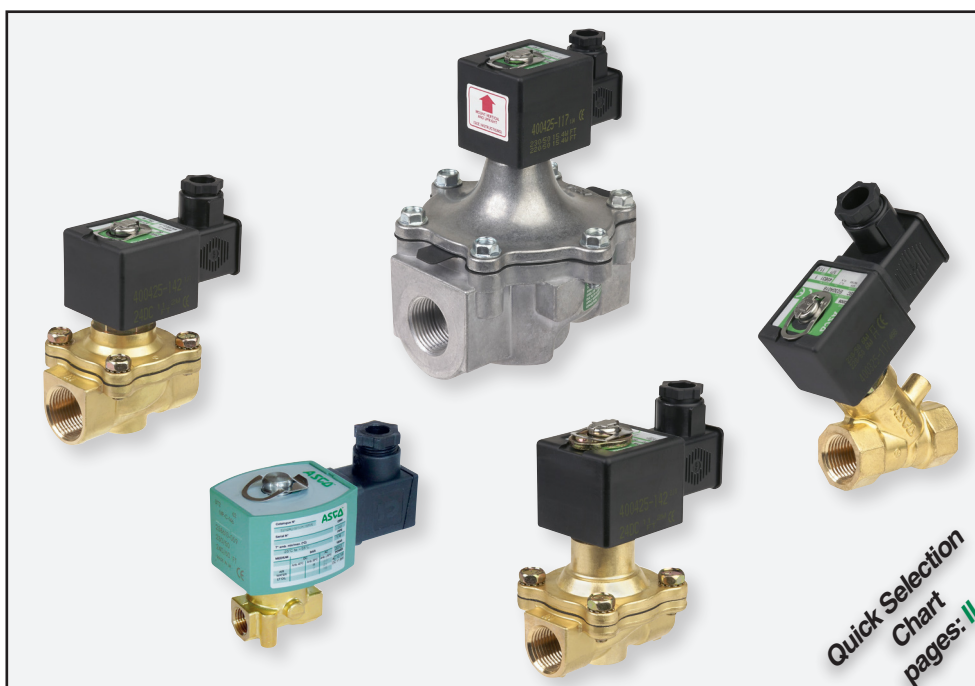


# SPECIAL FLUIDS VACUUM SERVICE

## Product Index



Fonction	Abs. pressure		Temperature		Pipe connections	Series	page	
	min. (mbar)	min. (Torr)	min. (°C)	max. (°C)				
<b>SOLENOID VALVES, BRASS BODY</b>								
NC	1,33.10 <sup>-6</sup>	10 <sup>-6</sup>	-25	+80	1/4	<a href="#">262</a>	<b>1</b>	
	1,33.10 <sup>-6</sup>	10 <sup>-6</sup>	-20	+90	3/8 - 1/2	<a href="#">030</a>	<b>5</b>	
NC-NO	1,33.10 <sup>-6</sup>	10 <sup>-6</sup>	-20	+90	3/8 .. 3/4	<a href="#">210</a>	<b>7</b>	
2/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">287</a> <sup>(1)</sup>	
3/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">387</a> <sup>(3)</sup>	
<b>SOLENOID VALVES, ALUMINIUM BODY</b>								
NC	1,33.10 <sup>-6</sup>	10 <sup>-6</sup>	-20	+90	1 .. 2	<a href="#">215</a>	<b>9</b>	
<b>SOLENOID VALVES, STAINLESS STEEL BODY</b>								
2/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">287</a> <sup>(1)</sup>	
<b>VALVES, BRASS BODY</b>								
2/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">287</a> <sup>(2)</sup>	
3/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">387</a> <sup>(4)</sup>	
<b>VALVES, BRONZE BODY</b>								
2/2 NC-NO	1,33.10 <sup>-3</sup>	10 <sup>-3</sup>	-10	+184	Threaded ports <sup>(1)</sup>	3/8 .. 2 1/2	<a href="#">E290</a> <sup>(2)</sup>	
					Flanged <sup>(1)</sup>	DN 25..50	<a href="#">T290</a> <sup>(2)</sup>	
3/2 NC-NO	1,33.10 <sup>-3</sup>	10 <sup>-3</sup>	-10	+184	Threaded ports <sup>(1)</sup>	1/2 .. 2	<a href="#">E390</a> <sup>(4)</sup>	
<b>VALVES, STAINLESS STEEL BODY</b>								
2/2 NC-NO	10 <sup>-4</sup>	7,5.10 <sup>-5</sup>	-20	+100	Coaxial	3/8 .. 1	<a href="#">287</a> <sup>(2)</sup>	
					Threaded ports <sup>(1)</sup>	1/2 .. 2 1/2	<a href="#">E290</a> <sup>(2)</sup>	
	1,33.10 <sup>-3</sup>	10 <sup>-3</sup>	-10	+184	External thread <sup>(1)</sup>	1/2..1	<a href="#">U290</a> <sup>(2)</sup>	
					Ext. thread, foods connections DIN 11851 <sup>(1)</sup>	RD 28x1/8 .. 44x1/6	<a href="#">Y290</a> <sup>(2)</sup>	
					Clamp / Butt welding <sup>(1)</sup>	DN 10..65	<a href="#">S290</a> <sup>(2)</sup>	
					Threaded ports (PN40)	1/2 .. 2	<a href="#">E298</a> <sup>(2)</sup>	
		10 <sup>-2</sup>	10 <sup>-2</sup>	-25	+250	Flanged (DIN and ANSI Class 300)	DN 15..50	<a href="#">T298</a> <sup>(2)</sup>
						Socket welding ends	DN 15..50	<a href="#">S298</a> <sup>(2)</sup>
		10 <sup>-2</sup>	10 <sup>-2</sup>	-25	+250	Threaded ports (PN40)	1/2 .. 2	<a href="#">E398</a> <sup>(4)</sup>
						Flanged (DIN and ANSI Class 300)	DN 15..50	<a href="#">T398</a> <sup>(4)</sup>
3/2 U	10 <sup>-2</sup>	10 <sup>-2</sup>	-25	+250	Socket welding ends	DN 15..50	<a href="#">S398</a> <sup>(4)</sup>	

<sup>(1)</sup> With FPM disc, see: [Pressure Operated Valves \(2/2\)](#), [www.asco.com](http://www.asco.com).

Solenoid Valves (2/2) ◀<sup>(1)</sup>  
 Pressure Operated Valves (2/2) ◀<sup>(2)</sup>  
 Solenoid Valves / Pneumatic Valves (3/2) ◀<sup>(3)</sup>  
 Pressure Operated Valves (3/2) ◀<sup>(4)</sup>

(Potentially explosive atmospheres, see page: II)

All leaflets are available on: [www.asco.com](http://www.asco.com)

Vacuum Service - I

pipe connections ☒ - internal thread										body material		minimum absolute vacuum pressure (mbar)						pipe connections (°C)		power coil (W)		series	page			
M5	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	brass	aluminium	orifice size (mm)	vacuum ≤ 25 Torr	vacuum ≤ 10 <sup>-3</sup> Torr AC (⌋)	vacuum ≤ 10 <sup>-6</sup> Torr	vacuum ≤ 25 Torr	vacuum ≤ 10 <sup>-3</sup> Torr DC (⌋)	vacuum ≤ 10 <sup>-6</sup> Torr	min.	max.	AC (~)	DC (=)	series	page
<b>NORMALLY CLOSED (NC)</b>														7,1	33,3	-	1,33 10 <sup>-6</sup>	33,3	-	1,33 10 <sup>-6</sup>	-25	+80	8,1	10,6	<b>262</b>	<b>1</b>
														9	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+90	10,5	-	<b>030</b>	<b>5</b>
														11	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	15,4	-	<b>210</b>	<b>7</b>
														19	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	10,5	-	<b>215</b>	<b>9</b>
														41	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	15,4	-	<b>215</b>	<b>9</b>
														53	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	15,4	-	<b>215</b>	<b>9</b>
<b>NORMALLY OPEN (NO)</b>														16	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	10,5	-	<b>210</b>	<b>7</b>
														19	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	10,5	-	<b>210</b>	<b>7</b>
														41	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	15,4	-	<b>215</b>	<b>9</b>
														53	33,3	1,33 10 <sup>-3</sup>	1,33 10 <sup>-6</sup>	-	-	-	-20	+85/90	15,4	-	<b>215</b>	<b>9</b>

page	series	power coil (W)	operators (See Explosionproof Solenoids section)	group II																					
				dusts					gas / dusts																
				zone 22					zones 1 - 21					zones 0 - 20											
				3 D Ex tc					2 G Ex db 2 D Ex tb		2 G Ex eb mb 2 D Ex tb		2 G Ex mb 2 D Ex mb												
				IIIC T115°C Dc IP65X					IIC T6..T4 Gb /IIIC Db IP66/67		IIC T6..T3 Gb /Ex tb IIIC Db IP66/67		IC T5..T3 Gb /IIIC Db IP67												
				SG (M6-II)					NF (MXX) NF (M12) WSNF (MXX) WSNF (M12)		EM (M6) EM (MXX) EM (M12) WSEM (M6) WSEM (MXX) WSEM (M12)		PV (EM5) PV (EMXX)												
<b>1</b>	<b>262</b>	8,1 10,6																							
<b>5</b>	<b>030</b>	10,5 15,4																							
<b>7</b>	<b>210</b>	10,5																							
<b>9</b>	<b>215</b>	15,4																							