






## Servo-assisted 2/2 way valve diaphragm valve



- Servo-assisted diaphragm valve with diameter of up to DN65
- Separating diaphragm for aggressive and contaminated media
- Adjustable switching times
- Explosion proof version (Cat.2)
- Service-friendly manual override
- Approvals:     

The 5282 valve is a servo-assisted diaphragm valve. A minimum differential pressure is required for the valve to function. Various diaphragm material combinations and methods of operation are available depending on the application. The housing offering is completed with stainless steel and grey cast iron versions.

The 3/2 way pilot valve can be easily converted from NC to NO functioning principle by rotating it on the armature. The solenoid coils are moulded with a chemically resistant epoxy. The 5282 is equipped with manual override for commissioning and testing. In combination with a plug in accordance with DIN EN 175301-803 Form A and stainless steel housing the valves satisfy protection class NEMA 4X.

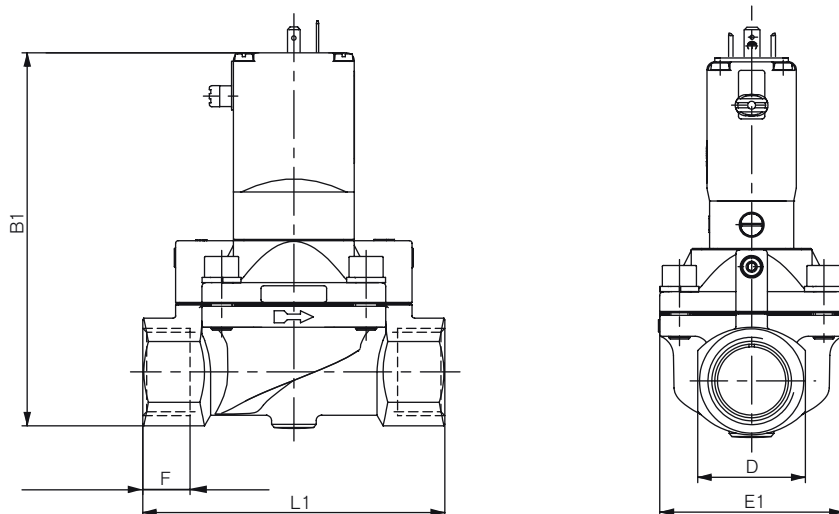
Power consumption		
Inrush	Hold	
AC [VA]	AC [VA/W]	DC cold/warm [W]
24	14/8	11/8

A differential pressure of 7 PSI (0.5 bar) is required to open the full orifice. The response times can be changed by turning the restrictor screws (in the body cover).

Technical data	
<b>Orifice</b>	1/2" - 2" (DN 13 - 65 mm)
<b>Body material</b>	
Threaded port	Brass, stainless steel 1.4581
Flange	Stainless steel 1.4541
<b>Seal material</b>	NBR, FKM, EPDM (on request)
<b>Media</b>	
NBR	Neutral fluid, e.g compressed air, water, hydraulic oil,
EPDM	Oil and fat-free fluid, e.g. alkaline solutions, hot water
FKM	Hot air, peracetic acid, hot oil
<b>Media temperature</b>	
NBR	32°F to 176°F (0°C to +80°C)
EPDM	-13°F to 194°F (-25°C to +90°C)
FKM	32°F to 194°F (0°C to +90°C)
<b>Ambient temperature</b>	Max. 131°F (+55°C)
<b>Voltage tolerance</b>	±10%
<b>Duty cycle</b>	100% continuous rating
<b>Electrical connection</b>	Tag connector acc. DIN 175301-803 Form A (previously DIN 43650)
<b>Protection class</b>	IP 65 with cable plug NEMA 4X units with stainless steel housing
<b>Installation</b>	As required, preferably with actuator upright
<b>Coil insulation class</b>	H

## Dimensions [mm]

Threaded port



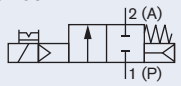
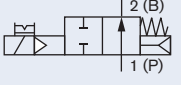
① only brass thread port version

② only stainless steel thread port version

Threaded port					
DN	D	B1	E1	F	L1
① 13	NPT 1/2	123.0	40	14	65
② 13	NPT 1/2	124.0	40	14	65
② 20	NPT 1/2	131.0	60	14	100
20	NPT 3/4	131.0	60	16	100
25	NPT 1	141.0	70	18	115
32	NPT 1 1/4	147.0	85	20	126
40	NPT 1 1/2	156.0	85	22	126
50	NPT 2	177.5	115	24	164
65	NPT 2 1/2	185.0	115	27	180

**Ordering chart for valves (other versions on request)**

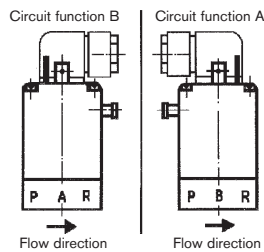
UL recognized/CSA/CE - Manual override, supplied without cable plug, different seal materials on request

Circuit function	Orifice [mm]	Port connection	C <sub>v</sub> value water [GPM]	Nominal Pressure [PSI]	Voltage/frequency [V/Hz]	Item no. Seal material NBR Seal Brass Body	Item no. Seal material FKM Seal Stainless Steel Body
<b>A</b> 2/2 way servo-controlled solenoid valve, normally closed, with manual override 	13.0 (Brass) 20.0 (SS)	NPT 1/2	4.7	2.8 – 145	024/VDC	456 890	456 914
					024/50-60	456 891	456 915
					120/60	456 892	456 916
					240/60	456 893	456 917
	20.0	NPT 3/4	7.5	2.8 – 145	024/VDC	456 894	456 918
					024/50-60	456 895	456 919
					120/60	456 896	456 920
					240/60	456 897	456 921
	25.0	NPT 1	11.7	2.8 – 145	024/VDC	456 898	456 922
					024/50-60	456 899	456 923
					120/60	456 900	456 924
					240/60	456 901	456 925
<b>B</b> 2/2 way servo-controlled solenoid valve, normally open, with manual override 	32.0	NPT 1 1/4	23.5	2.8 – 145	024/VDC	456 902	456 926
					024/50-60	456 903	456 927
					120/60	456 904	456 928
					240/60	456 905	456 929
	40.0	NPT 1 1/2	23.5	2.8 – 145	024/VDC	456 906	456 930
					024/50-60	456 907	456 931
					120/60	456 908	456 932
					240/60	456 909	456 933
	50.0	NPT 2	47.0	2.8 – 145	024/VDC	456 910	456 934
					024/50-60	456 911	456 935
					120/60	456 912	456 936
					240/60	456 913	456 937

Delivered as circuit function A. Change to the circuit function B by turning the pilot drive by 180°.

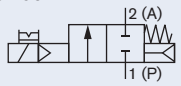
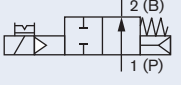
**Mounting instructions:**

Arrangement of the pilot control



### Ordering chart for valves (other versions on request)

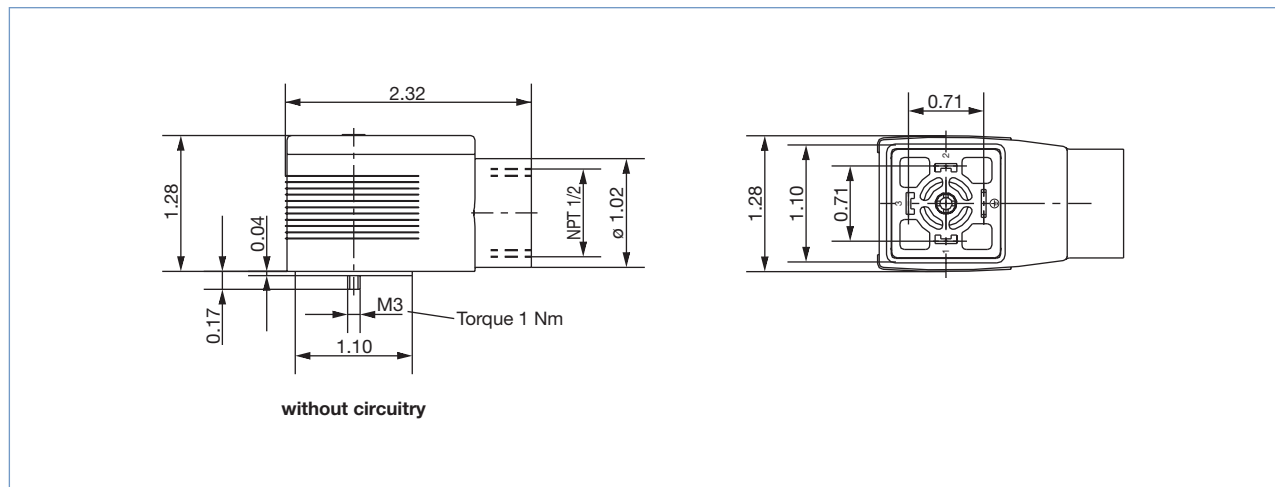
UL listed/CE - Manual override, supplied with cable plug type 2509, different seal materials on request

Circuit function	Orifice [mm]	Port connection	C <sub>v</sub> value water [GPM]	Nominal Pressure [PSI]	Voltage/frequency [V/Hz]	Item no. Seal material NBR Seal Brass Body	Item no. Seal material FKM Seal Stainless Steel Body
<b>A</b> 2/2 way servo-controlled solenoid valve, normally closed, with manual override  or by turning the pilot drive through 180°	13.0 (Brass) 20.0 (SS)	NPT 1/2	4.7	2.8 – 145	024/VDC	329 291	329 304
					024/50-60	329 331	-
					120/60	329 285	329 282
					240/60	329 325	-
	20.0	NPT 3/4	7.5	2.8 – 145	024/VDC	329 299	329 294
					024/50-60	-	-
					120/60	329 293	329 314
					240/60	329 326	-
	25.0	NPT 1	11.7	2.8 – 145	024/VDC	329 288	329 310
					024/50-60	329 327	-
					120/60	329 286	329 290
					240/60	-	-
<b>B</b> 2/2 way servo-controlled solenoid valve, normally open, with manual override 	32.0	NPT 1 1/4	23.5	2.8 – 145	024/VDC	-	329 337
					024/50-60	-	-
					120/60	329 333	329 328
					240/60	329 334	-
	40.0	NPT 1 1/2	23.5	2.8 – 145	024/VDC	329 303	329 305
					024/50-60	-	-
					120/60	329 311	329 292
					240/60	-	-
50.0	NPT 2	47.0	2.8 – 145	024/VDC	329 298	329 323	
				024/50-60	-	-	
				120/60	329 284	329 324	
				240/60	-	-	

Delivered as circuit function A. Change to the circuit function B by turning the pilot drive by 180°.

**NOTE:** All UL listed valves include Type 2509 1/2" conduit cable plug.

### Type 2509 Dimensions [mm]



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