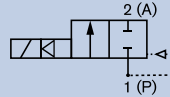


# 2/2-way hard-coupled Solenoid Valve

0290

## NPT 1/2" - NPT 2"

- Switches without differential pressure
- Operates on vacuum
- Process proven rugged and reliable design



One of the ever reliable workhorses of the Burkert solenoid range this hard-coupled solenoid valve with plunger piloted rugged diaphragm seal is perfect for vacuum, neutral gases and liquids. The high-performance design is available in brass and stainless steel with a range of diaphragm and seal materials.

### Technical Data

<b>Medium temperature <sup>1)</sup></b>	NBR	14 °F to 176 °F (-10 °C to +80 °C)
	FKM	32 °F to 248 °F (0 °C to +120 °C)
	EPDM	-22 °F to 248 °F (-30 °C to +120 °C)
<b>Ambient temperature</b>	131 °F (+55 °C), max.	
<b>Voltage tolerance</b>	±10%	
<b>Duty cycle</b>	100% continuous rating	
<b>Body material</b>	Brass, stainless steel 1.4581	
<b>Seal material</b>	FKM (NBR or EPDM on request)	
<b>Coil material</b>	Epoxy (Class H)	
<b>Protection class</b>	IP65 (with cable plug)	
<b>Electrical connection</b>	Cable plug acc. to DIN EN 175301-803, Form A (included)	
<b>Accreditations</b>	UL Listed	

<sup>1)</sup> Max. medium temperature for versions with high power electronics (with coding... /UC) withstands 194 °F (90 °C)

Orifice [mm]	Power consumption		Response times <sup>2)</sup>	
	UC [W]	UC [W]	Opening [ms]	Closing [ms]
12	120	8.5	100	700
20	145	10	to	
25	145	10	250	2000

<sup>2)</sup> Measured at valve outlet at 87 PSI (6 bar) and 68 °F (+20 °C), pressure rise 0 to 90%, pressure drop 100 to 10%

### Ordering Chart

Port connection [inch]	Orifice [mm]	Cv	Pressure range [PSI]	Power consumption		Item no. Voltage/Frequency [V/Hz]	
				Inrush [W]	Hold [W]	24 V AC/DC	120 V AC/DC
<b>Brass</b>							
NPT 1/2	12	2.1	0-232	100	25	298 109	298 110
NPT 3/4	20	5.8	0-232	120	32	298 115	298 116
NPT 1	25	11.7	0-232	120	32	298 119	298 120
<b>Stainless steel</b>							
NPT 1/2	12	2.1	0-232	100	25	298 112	298 113
NPT 3/4	20	5.8	0-232	120	32	298 117	298 118
NPT 1	25	11.7	0-232	120	32	298 122	298 123

= Quick Delivery Items

### Envelope Dimensions [inch] (see datasheet for details)

2509 cable plug  
Form A included

Size	A	B	C
NPT 1/2"	2.93	2.75	3.75
NPT 3/4"	3.93	2.75	4.80
NPT 1"	4.52	2.75	5.15
NPT 1 1/4"	4.96	2.75	5.70
NPT 1 1/2"	4.96	2.75	6.06
NPT 2"	6.45	2.75	8.30

### Options

- Cable plug with LED and varistor
- Oxygen version
- UR/cURus approval
- Flange connection acc. to DIN 2501 (DN25-50 mm)
- 24V/60 Hz, 240V/60 Hz