BERMAD Irrigation

Solenoids

2-Way Solenoid Valve

Servo-Assisted Diaphragm Actuated

Burkert Model 281

This is a diaphragm actuated, servo-assisted pilot operated 2-Way solenoid valve. It is available in two versions:

- Normally Closed (Model: 5281A)
- Normally Open (Model: 0281B)

Features

High flow rates (low head loss)

Normally Open or Closed versions

Technical Data

Standard materials:

Body: Brass Elastomers: NBR Enclosure: Molded epoxy Internals: Stainless Steel

Ports: 1/2", 3/4" NPT

Temperature:

Nominal ambient: 0.5 to 55°C; 33 to 131°F(1) Maximum fluid: 0 to 90°C; 32 to 194°F

Enclosure type:

One-piece molded epoxy. General purpose: IP 65 with DIN, cable plug

Electrical data:

Voltages:⁽²⁾

(ac): 24, 110, 220 (50Hz) (ac): 24, 120, 240 (60Hz) (dc): 24, 110, 220 Tolerance: ±10%

Power consumption:

(ac): 21 VA, inrush; 12 VA (8W), holding (dc): 8W

Hydraulic data:

Port Size	Orifice DN	Flow Factor		Pressure Range ⁽³⁾	
mm	mm	Κv	C۷	Bar	psi
1/2"	13	4.0	4.7	0.2-16	3-230
3/4"	20	5.0	5.8	0.2-16	3-230

Circuit functions



2-Wav Normally Closed



Normally Open



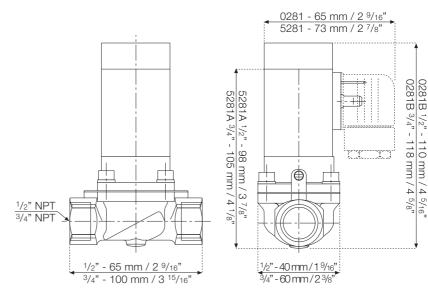


Model 5281A **Normally Closed**

Model 0281B Normally open

1/2" - 110 mm / 4 5/16

. 5/8"



Notes:

- (1) Max. ambient temperature is detemined under continuously energized conditions, and with max. fluid temperature.
- (2) 5281A AC coils can be replaced with AC or DC coils; DC coils can be replaced only with other DC coils. 0281B coils are not replaceable.
- ⁽³⁾ A minimal pressure differential of 0.5 bar (7.5 psi) is required for complete opening.



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