

PND Series

Pneutronics New Dump Valve



The PND Series is a miniature, low cost, application-specific, two-way Normally Open exhaust or "dump" valve. Perfect for safety-oriented applications that require pressure relief to atmosphere upon power loss.

Features

- ◆ Normally Open exhaust valve in a small package size.
- ◆ Works well in miniature applications such as in Non-Invasive Blood Pressure (NIBP) devices.
- ◆ Provides small size and low cost.
- ◆ Offers low holding voltage.

Physical Properties

Valve Type:

2-Way Normally Open

Media:

Non-corrosive gases

Operating Environment:

0 to 45°C

Storage Temperature:

-25 to 70°C

Length:

1.01 in (25.6 mm)

Width:

0.394 in (10 mm)

Height:

0.472 in (12 mm)

Porting:

1 port, 0.118" (3 mm) O.D.; suitable for 0.078 I.D.; Urethane tubing

Weight:

.27 oz (7.71 grams)

Internal Volume:

0.026 cm³

Filtration:

None required

Lubrication:

None required

Electrical

Power:

0.5 Watt or less

Voltage:

3, 6, 12 VDC

Wetted Materials

Elastomer:

Silicon; Nickel-Plated Steel

Frame:

SPCC (Treatment: MFZn2-c)

All Other:

Polybutylene Terephthalate (PBT);
304 Series Stainless Steel

Performance Characteristics

Leak Rate:

0.016 sccm (bubble tight)

Response:

<100 msec cycling

Pressure:

0 to 6 psig holding

Vacuum:

0-27 in Hg

Orifice Sizes/Equivalent C_v:

0.030"/0.017 C_v

0.050"/0.035 C_v

Larger sizes available in
15 mm frame

Ordering Information

Sample Part ID	PND	-	05	A	-	12
Description	Series	-	Watts (Rated Power at 20°C)	Orifice Size	-	Voltage
Options			05: 0.5 Watt	D: 0.030" A: 0.050"		03: 3 VDC 06: 6 VDC 12: 12 VDC
				Note: With Orifice Size at 0.050", the frame width and height increases 0.118" (3mm)		

NOTE: Please consult Parker Life Sciences for other considerations. For more detailed information, visit us on the Web, or call and refer to Performance Spec. #790-002198-001 and Drawing #s: PND-05A-DWG and PND-05D-DWG.

Dimensions

