

FEATURES

Options available:

- 075RV - stand-alone, spring loaded
- 075RS - spring loaded with solenoid control

Standard Features:

- 6 Pressure relief settings from 20 to 150 psi
- FFKM and PPS fluid path
- Minimal internal volume

Series 075RS Solenoid Features:

- Isolated solenoid
- Continuous duty coil
- Low power consumption
- Fast response time
- High cycle life

SPECIFICATIONS

| SERIES | 075RV / 075RS | |
|-------------------------------|----------------------------------|--------|
| Orifice diameter: | 0.062" (1.57mm) | |
| Flow rate: | $C_v = 0.030 \pm 0.005$ | |
| Internal volume: | 54 μ l | |
| Ports: | 1/4"-28 Flat Bottom | |
| SERIES | 075RS | |
| Voltage: | 12 VDC | 24 VDC |
| Power Watts @ 70° F (21° C) : | 2.8 | 2.8 |
| Current Amps @ 70° F (21° C): | 0.23 | 0.12 |
| Lead Wires: | 15" (381mm) 26 Gauge PTFE Coated | |

STANDARD PRESSURE CONFIGURATIONS

| Operating Pressure | Relief Pressure |
|--------------------|-----------------|
| 0 - 17 psig | 20 +/- 3 psi |
| 0 - 31 psig | 35 +/- 4 psi |
| 0 - 54 psig | 60 +/- 6 psi |
| 0 - 77 psig | 85 +/- 8 psi |
| 0 - 100 psig | 110 +/- 10 psi |
| 0 - 138 psig | 150 +/- 12 psi |



The 075RV / 075RS relief valve series is ideally suited for use with aggressive and high-purity fluids. Wetted parts consist of a PPS valve body and an FFKM diaphragm. The unique Bio-Chem Valve™ diaphragm retention design ensures reliable performance and long life.

The solenoid operated, normally closed 075RS relief valve provides dual functionality as a solenoid valve with pressure relief function. This provides flow control and the capability to periodically purge the system.

Customized configurations are available, including:

- Broad range of wetted materials including PTFE, ETFE, PFA, PEEK™, POM, EPDM, FKM
- Port threads such as M6, 10-32
- Larger or smaller orifice sizes
- Alternate port configurations, including 3-port designs
- Special relief and/or operating pressure settings
- Mounting options including manifold mountable configurations

Please contact Bio-Chem Fluidics to discuss your custom requirements.

Materials:

EPDM = ethylene-propylene-diene
 ETFE = ethylene tetrafluoroethylene
 FFKM = perfluoroelastomer
 FKM = fluoroelastomer

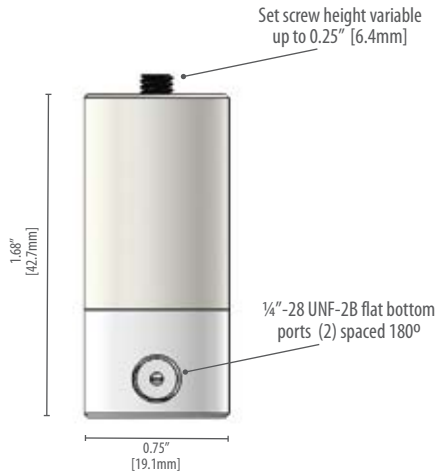
PEEK™ = polyetheretherketone
 PFA = perfluoroalkoxy
 POM = polyoxymethylene
 PPS = polyphenylene sulphide
 PTFE = polytetrafluoroethylene

Trademarks:

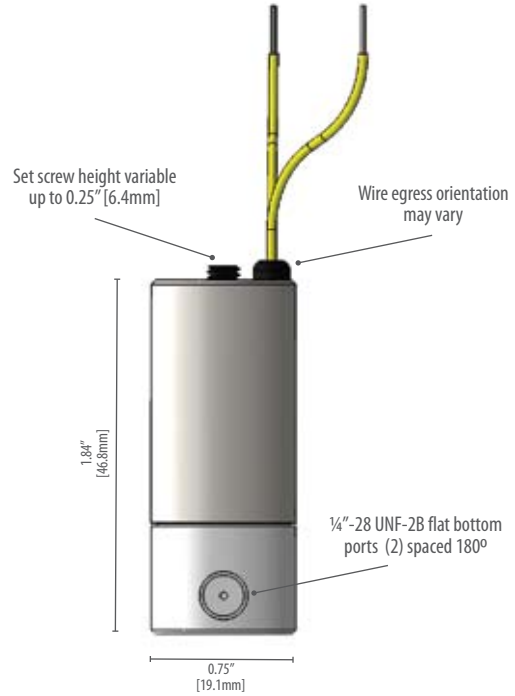
Bio-Chem Valve™ is a trademark of Bio-Chem Fluidics Inc.
 PEEK™ is a registered trademark of Victrex plc.

INSTALLATION INSTRUCTIONS

Series 075RV relief valve



Series 075RS relief valve with solenoid



Ordering Information:

Series 075RV relief valve

Spring loaded only

| PART NO. | SET PRESSURE (psig) | BODY MATERIAL | DIAPHRAGM MATERIAL |
|--------------|---------------------|---------------|--------------------|
| 075RV-62-20 | 20 | PPS | FFKM |
| 075RV-62-35 | 35 | PPS | FFKM |
| 075RV-62-60 | 60 | PPS | FFKM |
| 075RV-62-85 | 85 | PPS | FFKM |
| 075RV-62-110 | 110 | PPS | FFKM |
| 075RV-62-150 | 150 | PPS | FFKM |

Series 075RS relief valve

Spring loaded with 12VDC solenoid

| PART NO. | SET PRESSURE (psig) | BODY MATERIAL | DIAPHRAGM MATERIAL |
|----------------|---------------------|---------------|--------------------|
| 075RS12-62-20 | 20 | PPS | FFKM |
| 075RS12-62-35 | 35 | PPS | FFKM |
| 075RS12-62-60 | 60 | PPS | FFKM |
| 075RS12-62-85 | 85 | PPS | FFKM |
| 075RS12-62-110 | 110 | PPS | FFKM |
| 075RS12-62-150 | 150 | PPS | FFKM |

NOTE: For 24 VDC, replace 075RS12 with 075RS24 in any of the part numbers listed.

**BIO-CHEM
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