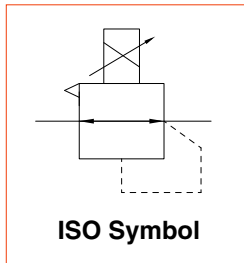


New Product Introduction

Electro-Pneumatic Proportional Valves Series RER1



ISO Symbol



Proportional Valve



Proportional Valve with
Booster

STANDARD SPECIFICATIONS

Common Specifications:

Analog Monitor Signal:

Voltage: 0 – 10 volts DC@20 mA maximum.

Current: 4 – 20 mA sinking (sourcing optional).

Ambient/Media Temperature: 32° to 158°F (0° to 70°C).

Body and Dome: Zinc.

Command Signal Impedance:

Voltage: 4.7 kΩ .

Current: 100Ω.

Command Signal Voltage/Current: 0 – 10 volts DC/4 – 20 mA.

Electrical Connector: 6-pin Brad Harrison or 5-pin M12.

Fluid Media: Compressed Air.

Housing: Aluminum; powder coated.

Input Pressure: 29.9 in Hg to 300 psig (760 mm Hg to 20.7 bar).

Manifold: Brass.

Output Pressure: 0 to 200 psi (0 to 13.8 bar).

Seals: Fluorocarbon.

Supply Voltage/Current: 15 – 24 volts DC/250 mA (required).

Transducer: Silicon, aluminum.

Valves: Nickel-plated brass.

For Proportional Valve with Booster only:

Accuracy: < ± 2.5% F.S.

Linearity/Hysteresis: < ± 2.0% F.S. BFSL.

Repeatability: < ± 0.6% F.S.

For Proportional Valve only:

Accuracy: < ± .25% F.S.

Linearity/Hysteresis: < ± .2% F.S. BFSL.

Repeatability: < ± .2% F.S.

Note: High-pressure Proportional valve ≥ 175 psi (12 bar) - inlet and exhaust ports reversed from picture shown.

GENERAL:

The Series RER1 Proportional valve is ROSS CONTROLS' latest product using closed loop control technology. It incorporates many important standard features.

Standard flow rate of the valve is typically one scfm maximum. When used with a volume booster a flow rate in excess of 1,000 scfm can be achieved.

Check the items below to see how cost-effective these valves can be in your plant.

FEATURES:

- Fits into very small space
- Accurate to < ± 2.5% F.S.
- 0 – 10 volts DC analog monitor output
- NEMA 4 1P65 rating
- Accepts analog command signal inputs
- Proportional valve with regulator: control pressure ranges from vacuum to 300 psig (20.7 bar)
- Flow rates can exceed 1,000 scfm
- Valve is insensitive to shock, vibration, or mounting position
- Easily repairable in the field

ORDERING INFORMATION

For **PROPORTIONAL-VALVE ONLY** - Change the letters in the sample model number below to specify the proportional valve you want.

RER1 A 1 A 100

CONNECTOR

A – 6-Pin Brad Harrison
B – 5-Pin M12

COMMAND INPUT

1 – 0–10 volts DC
2 – 4–20 mA

MONITOR SIGNAL

A – 0–10 volts DC
B – 4–20 mA - sinking
C – 4–20 mA - sourcing

MAXIMUM CALIBRATED PRESSURE RANGE

030 – 0-30 psig (0 to 2.1 bar)
050 – 0-50 psig (0 to 3.5 bar)
100 – 0-100 psig (0 to 6.9 bar)
200 – 0-200 psig (0 to 13.8 bar)
300 – 0-300 psig (0 to 20.7 bar)
V20 – 0-20 in Hg (vacuum)
For any other pressure ranges, consult ROSS.

Brass Inlet Filter (R37-R288) is included when purchasing a proportional-valve.

NOTE: Cable must be ordered separately. See choices below.

For **PROPORTIONAL-VALVE with VOLUME BOOSTER** - Change the letters in the sample model number below to specify the proportional valve you want.

RB 1 2 ARER1 A 1 A 100

REGULATOR

1 – 1/4 to 3/4 ports Regulator
2 – 3/4 to 1½ ports- High Flow Regulator
3 – 1/4 to 1/2 ports- High Relief Regulator
4 – 3/4 to 1¼ ports- High Flow/High Relief Regulator

PRESSURE GAUGE

A – No Gauge
B – 200-BDD Gauge 0 to 200 psig (0 to 14 bar)
C – 600-BDD Gauge 0 to 600 psig (0 to 40 bar)
D – 30-BDD Gauge 0 to 30 psig (0 to 2 bar)
E – 60-BDD Gauge 0 to 60 psig (0 to 4 bar)
For Electronic Gauge, consult ROSS.

REGULATOR PRESSURE

Port Size Model	Inlet	Outlet	Relief
RB1 - RB2	300 psi (20.7 bar)	200 psi (13.8 bar)	10 scfm
RB3 - RB4	400 psi (27.6 bar)	250 psi (17.3 bar)	200 scfm

INLET/OUTLET PORTS

2 – 1/4 NPTF	B – 1/4 BSPP
3 – 3/8 NPTF	C – 3/8 BSPP
4 – 1/2 NPTF	D – 1/2 BSPP
6 – 3/4 NPTF	E – 3/4 BSPP
8 – 1 NPTF	F – 1 BSPP
J – 1¼ NPTF	G – 1¼ BSPP

NOTE: Cable must be ordered separately. See choices below.

ACCESSORIES

MOUNTING BRACKETS

Order mounting brackets separately.

Bracket for proportional valve only:
Model Number **RER-BRK-1**.

Brackets for proportional valve with volume booster:
Model Number **R-A37-381** (shown on the right).



CABLES

Cable Length

6 feet (1.8 meters)
12 feet (3.7 meters)
25 feet (7.5 meters)

Part Number

RER-CBL-6
RER-CBL-12
RER-CBL-25

WARRANTY and CAUTIONS Standard ROSS warranty and cautions apply, available upon request or at www.rosscontrols.com.



Consider it **DONE!**



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