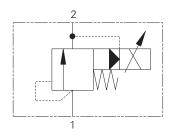
3.8 - 6.0 L/min (1 - 15 USgpm) • 240 bar (3500 psi)



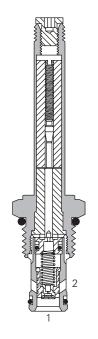
Operation

This valve remains closed between port 1 and 2 until the predetermined pressure setting has been reached at port 1, overcoming the electrical force and opening the spool to allow flow from port 1 to port 2.

Features

Hardened and ground components for accurate consistent control and a long life. Pilot style to give accurate pressure control over varying flows. IP69K Tough coil compatibility continuously rated.

Sectional View



Performance Data

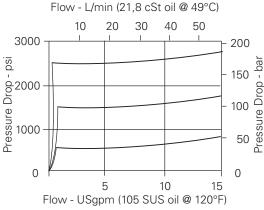
Ratings and	l Specifications
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Performance data is typical wit	h fluid at 21,8 cST (105 SUS) an	d 49°C (120°F)
Typical application pressure (all ports)		2-240 bar (30-3500 psi)
Cartridge fatigue pressure (infi	nite life)	240 bar (3500 psi)
Rated flow		3.8-60,0 L/min (1-15 USgpm)
Temperature range		-40° to 120°C (-40° to 248°F)
Cavity		C-10-2
Fluids	All general purpose hydrau	lic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration		Cleanliness code 18/16/13
Housing material (standard)		Aluminum
Weight including coil		0,44 kg (.98 lbs)
Seal kit		565803 (Buna-N), 565086 (Viton°)

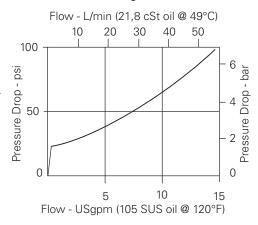
Viton is a registered trademark of E.I. DuPont

Pressure Drop Curves

Pressure override, energized



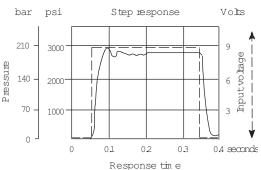
Pressure override, de-energized

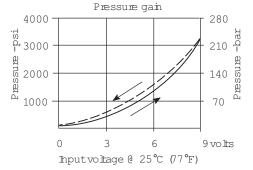


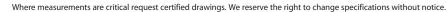
cartridge. Ideal for the control of pressure under varying flow Performance Curves

Cartridges only

Zero outlet pressure











Description

conditions.

This is a proportional internally pilot operated screw in

cartridge relief valve. Good

for the physical size of the

control over large flows

ERV1-10 - Proportional Valve

Proportional relief, spool 3.8 - 6.0 L/min (1 - 15 USgpm) • 240 bar (3500 psi)

Model Code

ERV1 - 10 - (V) - ** - ** - *** - * - 00

1 Function

ERV1 - Proportional relief valve

2 Size

10 - 10 size

3 Seal Material

Blank - Buna-N V - Viton°

4 Maximum Pressure
Customer to specify settings
in increments of 7 bar (100 psi)
and coded in hundreds of psi
within the 35-210 bar range

Example: 5-35,0 (500 psi)

(500-3000 psi) range.

5 Port Size

Port Size	Housing Number
	Aluminum Single
Cartridge only	
SAE 6	566151*
1/4" BSPP	876702*
3/8" BSPP	876703
SAE 6	876700
SAE 8	876701
	Cartridge only SAE 6 1/4" BSPP 3/8" BSPP SAE 6

*Light duty housing.
See section J for housing details.

6 Voltage Rating

00 - No coil

12D - 12VDC

24D - 24VDC

12B - 12VDC/w diode*

24B - 24VDC/w diode*

7 Connector Types

Blank - No coil

G - DIN 43650

Q - Spade Terminals

W - Flying Lead

N - Deutsch Y - Amp JR

For coil part numbers and dimensions see section C.

8 Special Features

00 - None

Only required if valve has special features, omitted if "00."

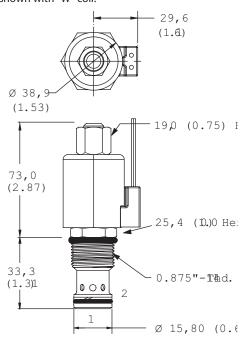
Dimensions

mm (inch)

Torque cartridge in aluminum housing 47-54 Nm (35-40 ft lbs)

Cartridge Only

Valve is shown with "W" coil.



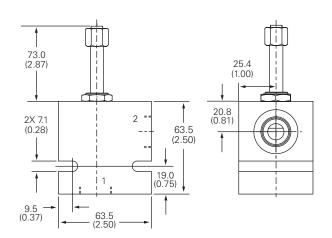
Installation Drawing

*Optional arc suppression diode.

Note: This valve uses the standard

J series coils, see section C for coil

part numbers and specifications.





WARNING Maintain 5-8 Nm (4-6 ft lbs) maximum

torque on valve tube nut. Over tightening may cause valve failure.



