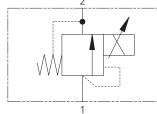
IRV1-10 - Proportional Valve

Proportional inverse relief, poppet 1 L/min (.25 USgpm) • 210 bar (3000 psi)



Sectional View

Description

This is a proportionally controlled inverse pilot poppet relief valve. Ideal for use with logic elements to control fan or brush pressure where full speed or force is required under electrical failure.

Operation

Performance Data

Ratings and Specifications

The IRV1-10 proportional relief is spring biased closed to the highest setting. Increasing current to the coil will proportionally decrease the pressure setting.

When the pressure at port 1 (inlet) is enough to overcome the spring force, the poppet lifts and allows flow from port 1 to port 2 (outlet).

Features

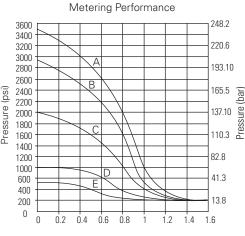
Hardened and ground components for accurate consistent control and a long life. IP69K Tough coil compatibility continuously rated.

Performance data is typical with fluid at	1,8 cST (105 SUS) and 49°C (120°F)	
Typical application pressure	210 bar (3000 psi)	
Cartridge endurance rating	1 million cycles	
Cartridge fatigue pressure rating (NFPA/	2.6.1 R2-2000) 210 bar (3000 psi)	
Maximum pressure setting range	35-210 bar (3000 psi)	
Rated flow	1 L/min, (0.25 USgpm)	
Nominal supply voltage	12/24 V	
Temperature range	-30° to 90°C (-22° to 194°F)	
Maximum oil temperature		
Maximum internal oil temperature		
Cavity	C-10-2	
Fluids All ge	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.	
Filtration	Cleanliness code 18/16/13	
Housing material (standard)	Aluminum	
Hysterisis	100 psi with dither	
Weight cartridge only	0,13 kg (.3 lbs)	
Seal kit	565803 (Buna-N), 566086 (Viton˚)	

Viton is a registered trademark of E.I. DuPont

Endurance tested to 1 million cycles at full rated flow and pressure.

Pressure Drop



Amps

Pressure Differential A - 3500 psi B - 3000 psi C - 2000 psi

- D 1000 psi
- E 500 psi

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



IRV1-10 - Proportional Valve

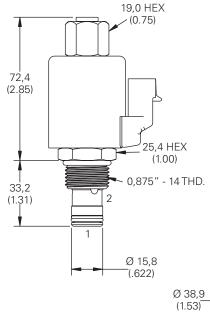
Proportional inverse relief, poppet 1 L/min (.25 USgpm) • 210 bar (3000 psi)

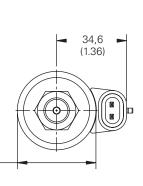
Model Code	IRV1 10 - * - ** - * - ** - ** - * - * - 1 2 3 4 5 6 7 8	- * _ * _ * _ ** - * _ * _ * _ ** 9 10 11 12
1 Function IRV1 - Inverse proportional relief	6 Port Size <u>Code Port Size Housing Number</u> Aluminum Single Aluminum Single	9Connector TypeBlank - No coilG -ISO 4400 DIN 43650Q -Spade TerminalsW -Flying LeadN -Deutsch (DC only)Y -Amp JR (DC only)P -ConduitForcoilpartnumbersanddimensionssee section C.10Coil SeriesBlank - No coilJ - J Series, 20 WForcoilpartnumbersanddimensionssee section C.11Coil Special FeaturesBlank - No coil00 -No special featuresBlank - No coil00 -No special featuresBlank - No coil12Valve Special FeaturesBlank - No coil
2 Size 10 - 10 size	Light Duty Fatigue Rated 0 Cartridge only	
3 Seal Material Blank - Buna-N V - Viton°	6T SAE 6 566150 8T SAE 8 566151 2G 1/4" BSPP 5986433-001 3G 3/8" BSPP 876703	
 Factory Set Pressure User requested in 100 psi increments. Max pressure setting range 500 - 3000 psi Example 15 - 1500 psi 30 - 3000 psi Housing Material Blank - Cartridge only A - Aluminum 	6HSAE 68767008HSAE 8876701See section J for housing details.	
	7Coil Voltage8Type of Power00 -No coilBlank -No coil010 -10VDCD -DC w/o diode012 -12VDCB -DC with diode024 -24VDC	

Dimensions

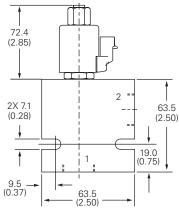
mm (inch)

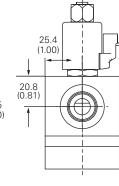
Cartridge Only





Installation Drawing







Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

В