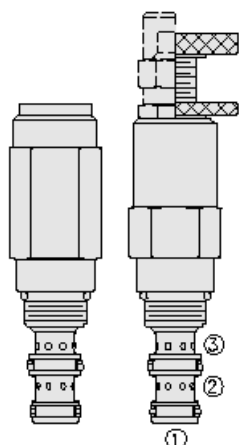




Overview



Description

The pr58-38xxx is a screw in, cartridge style, direct acting, spool type, hydraulic pressure reducing/relieving valve with internal spring chamber drain, and spool damping chamber

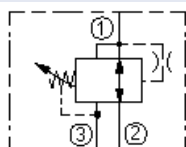
Operation

It is designed to act as a pressure regulating device for secondary circuits. In its steady state, the pr58-38xxx allows flow to pass bidirectionally from port 2 to port 1 with the spring chamber constantly drained at port 3. Upon attainment of a predetermined pressure at port 1, the cartridge shifts to block flow at port 2, thereby regulating pressure at port 1. In this mode, the valve will also relieve port 1 to port 3.. Port 2 may be protected by a 60 x 60 mesh screen

Features

- Adjustments cannot be backed out of the valve.
- Adjustments prohibit springs from going solid.
- Optional spring ranges to 248 bar (4200 psi)
- Optional 233 micron screen.
- Hardened spool and cage for long life.
- Compact, industry-common size.

Symbol



Ratings

Pressure Ratings

Pressure rating	344.7 bar (5000 psi)
Proof pressure	379.2 bar (5500 psi)
Burst pressure	896.3 bar (13000 psi)
Maximum tank port pressure	68.9 bar (1000 psi)

Flow Ratings

Flow rating	18.9 lpm (5 gpm)
-------------	------------------

Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	- Note: With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- Note: With fluorocarbon seals
	-54 to 107 °C (-65 to 225 °F)	- Note: With polyurethane and urethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

Operating Parameters

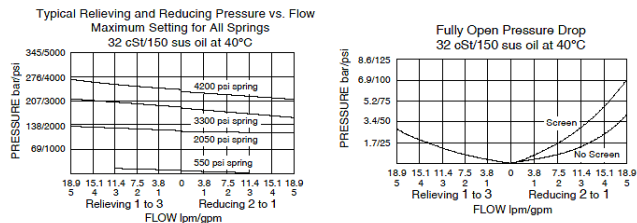
Fluids	Mineral based or synthetic with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	20/18/14 per ISO 4406 (tank port pressure is additive to pressure setting at ratio of 1:1)

Properties

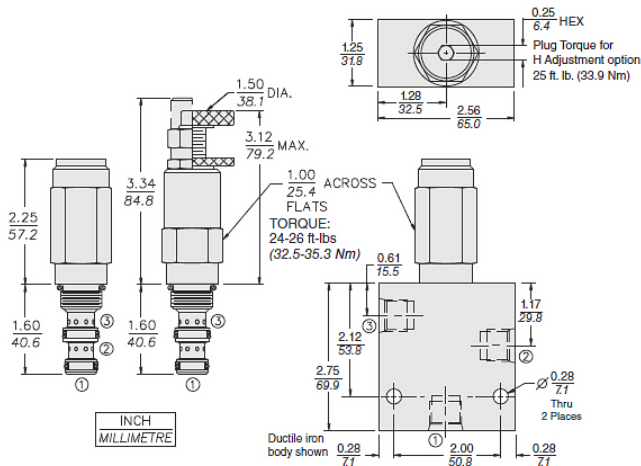
Unit weight	0.23 kg (0.52 lb)	- Note: A
	0.26 kg (0.57 lb)	- Note: B
	0.28 kg (0.61 lb)	- Note: C I
	0.22 kg (0.49 lb)	- Note: F h
Internal wetted surface area	141 cm ² (21.9 in ²)	- Note: A b c I
	166 cm ² (25.7 in ²)	- Note: F h



Performance



Dimensions



Materials

Materials

Cartridge: Weight: 0.23 kg (0.52 lb) with A option; 0.26 kg (0.57 lb) with B option; 0.28 kg (0.61 lb) with C and L options; 0.22 kg (0.49 lb) with F and H options. Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard. Anodized aluminum knob.

Standard Ported Body: Ductile iron (code D) bodies are required for operation over 207 bar (3000 psi). Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi) also available, dimensions may differ.

Adjustment Option Details: See [adjustment options](#)

Note: Orifice Disc should not be used with this valve

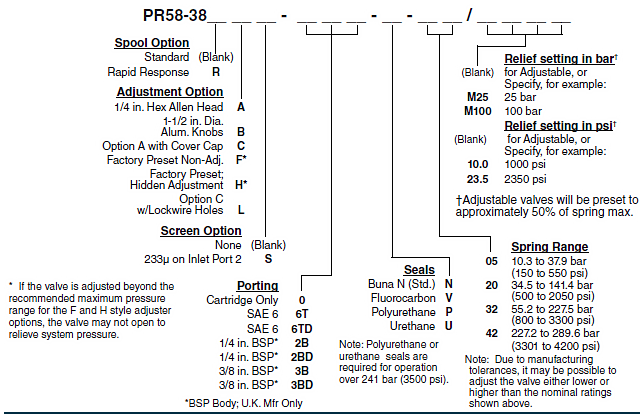
Installation Specifications

Cavity	VC08-3
Cartridge installation torque	32.5 to 35.3 N-m (24 to 26 ft-lb) 47.5 N-m (35 ft-lb) - Note: Maximum
Plug torque	47.5 N-m (25 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK08-3X-BM - Note: X = seal option SK08-3U-OO - Note: X = seal option
Housings	

Order Code



POSITION	CODE	DESCRIPTION
		PR58-38DFG-H-J-R/S
D		Rapid Response Option
D	BLANK	Standard
D	R	Rapid Response
F		Adjustment Option
F	A	1/4" Hex Allen Head
F	B	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
F	C	1/4" Hex Allen Head with Cover Cap
F	F	Factory Preset Non-Adjustable
F	H	Factory Preset Hidden Adjustment
F	L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes
G		Screen
G	BLANK	NONE
G	S	60 Mesh Screen
H		Line Body
H	0	No Body
H	4T	Aluminum SAE 4
H	6T	Aluminum SAE 6
H	6TD	Ductile Iron SAE 6
H	8TD	Ductile Iron SAE 8
H	3B	Aluminum BSPP 3/8" (3)
H	3BD	Ductile Iron BSPP 3/8" (3)
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	P	Polyurethane
J	U	PPDI Urethane
R		Spring
R	05	10.3 to 37.9 bar (150 to 550 psi) Spring Range
R	20	34.5 to 141.3 bar (500 to 2050 psi) Spring Range
R	32	55.2 to 227.5 bar (800 to 3300 psi) Spring Range
R	42	227.6 to 289.6 bar (3301 to 4200 psi) Spring Range
S		Setting
S	MXXX	Spring Setting in XXX bar



POSITION	CODE	DESCRIPTION
S	XX	Spring Setting in XX psi (x 100)