HYRV16–26 (Pilot Operated Relief Valve)

Description

A cartridge–style pilot–operated spool–type relief valve.

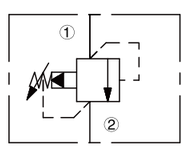
Operation

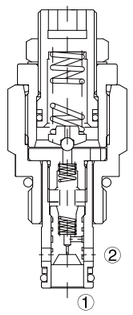
The valve prevents flow from ① to ② until pressure at ① exceeds the set crack pressure and opens the pilot section. The pilot flow creates a pressure differential across the spool which causes the valve to open allowing flow from ① to ② protecting the circuit from over pressurization. This cartridge relief valve offers a smooth transition in response to a load change in a hydraulic circuit.

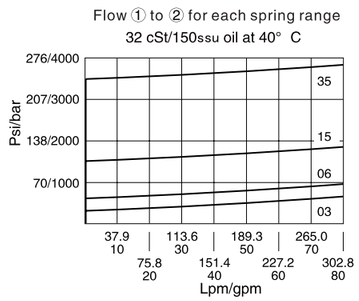
Specifications

Operating pressure:	240 Bar
Flow:	See pressure drop vs.flow graph
Internal leakage:	At 85% of crack pressure setting below 138 bar,maximum internal leakage is115 m/min;at 85% of crack pressure setting above 138 bar, maximum internal leakage is 197 m/min.
Reseat pressure:	90% Of crack pressure (crack pressure at 0.95 lpm /0.25 gpm)
Standard spring ranges:	03：9.66 Bar to 20.7 bar
	06：15.87 Bar to 41.4 bar
	15：36.63 Bar to 103.52 bar
	35：82.82 Bar to 241.55 bar
Temperature:	(–40℃ To +120℃) with NBR material seals
Fluids:	Mineral–based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY16–2,see page H.1.5
Body material:	Steel & ductile iron rated to 350 bar

Code symbol 、profile and pressure drop vs.flow







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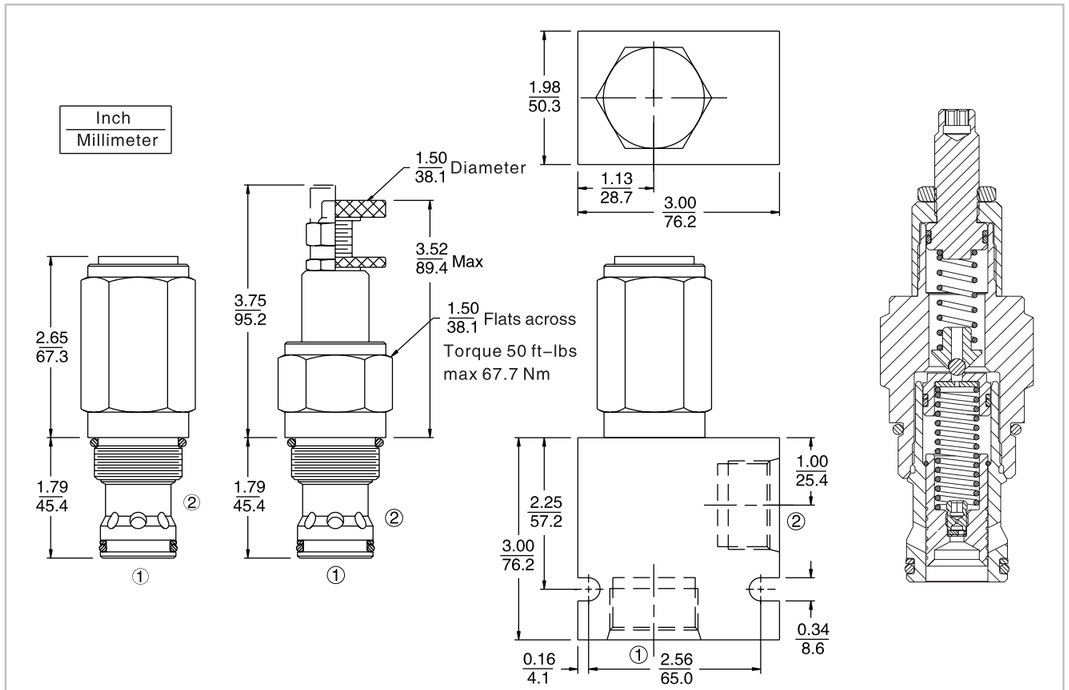
External dimensions



Material science and order model

Cartridge: weight：0.73 kg (1.60 lbs);
Steel,the working face is duratected
Surcace zine–plated;
NBR material sealing and check ring (standard)；
Aluminum knob with anodicoxidation.

Block:weight :0.57 kg (1.25 lbs);
High–strength performance aluminum alloy with anodic oxidation;#6061 T6;
Rated pressure up to 240 bar (3500 psi);
See 8.016.1.Also available with ductile cast iron and steel material;
Size might be different,please consult factory.

HYRV16–26 – ____ – ____ – ____ / ____

Adjustment option
1/4 In.hex allen head A
1–1/2 In.dia.alum.knob B
Option A w/cover cap C
Factory preset non– adjustment F
Factory preset hidden adjustment H

Porting
Cartridge only 0
SAE 12 12T
SAE 16 16T
3/4 Inch BSP* 6B
1 Inch BSP* 8B
BSP body:U.K.Mfr.only

Seals
Pressure on P only
N Buna N (std.)
V Fluorocarbon

Setting in bar †
Blank For adjustable,or specify,for example:
M25 25 Bar
M100 100 Bar

Setting in psi †
Blank For adjustable,or specify,for example:
9.0 900 Psi
23.5 2350 Psi

Spring range
03 9.7 To 20.7 bar (140 To 300 psi)
06 15.9 To 41.4 bar (230 To 600 psi)
15 36.6 To 103.5 bar (530 To 1500 psi)
35 82.8 To 241.6 bar (1200 To 3500 psi)

† Adjustable valves will be preset to approx.50% of spring max.potential.