

# **HYRV08 (Cartridge Direct Acting Relief Valve)**

## Description

A cartridge-style direct-acting poppet-type relief valve.

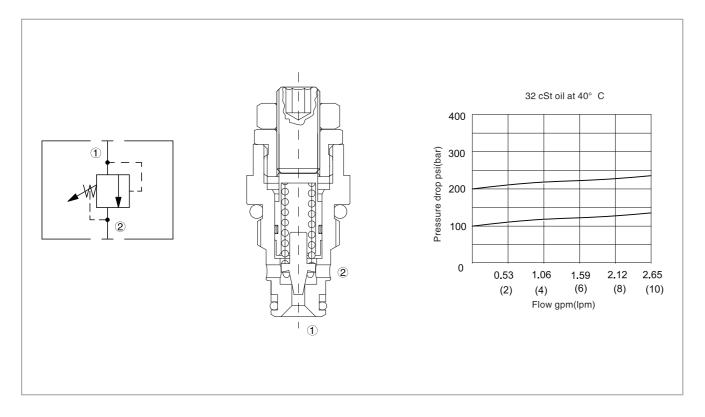
### Operation

The valve prevents flow from ① to ② until the set crack pressure at ① is achieved. The poppet then unseats allowing flow from ① to ② protecting the circuit from over pressurization.

### **Specifications**

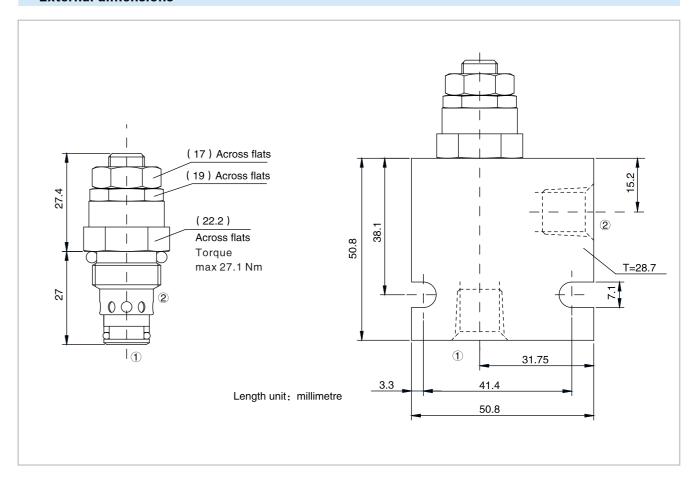
Operating pressure:	250 Bar
Standard spring ranges:	40 To 270 bar
Reseat pressure:	80% Of crack pressure (crack pressure at 0.95 lpm /0.25 gpm)
Flow:	See pressure drop vs.flow graph.
Internal leakage:	5 Drops/min. max. to 80% of nominal setting
Temperature:	(–30℃ To +120℃) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY08–2,see page H.1.2
Body material:	6061-T6 Aluminum alloy rated to 207 bar, 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: 0.17 kg (0.37 lb); Steel, the working face is duratected Surcace zine-plated; NBR material sealing and TEF material

check ring (standard), high-strength performance aluminum knob with anodic oxidation

Block:weight:0.16 kg (0.35 lb); High-strength performance aluminum alloy with anodic oxidation; #6061 T6;

Rated pressure up to 240 bar (3500 psi); See 8.010.1. Also available with ductile cast iron and steel material;

HYRV 08 - \*\* / \*\*\*\* - \*\* Bod porting -4T=SAE4 6T=SAE6 Direct acting 2G=G 1/4 3G=G 3/8 relief valve Onther poerting is available (Omit for cartridge only) Cavity-Setting in bar Spring range-Example:0160=160bar (Omir for standard) 6=210-610psi (15-42 bar) preset:430psi(30 bar) Size might be different, please consult factory. 10=290-1000psi(20-69 bar) preset: 720psi(50 bar) 23=580-2300psi(40-160 bar) preset:1600psi(110 bar) 36=1150-3600psi80-250 bar)preset:2300psi(160 bar)

D.2.1 D.2.2