HY-EHPR08-33 (Proportional Pressure Reducing/ Relief Valve)

Introduction



Description:

A screw-in, cartridge-style, direct-acting, spool-type hydraulic pressure reducing/relieving valve, which can be infinitely adjusted across prescribed range using a variable electric input. Pressure output is to DC current input. This valve is intended for use as a pressure limiting device in demanding applications.

Opeartion:

The HY-EHPR08-33 free flow from ① to ③ when no current is applied to the coil.When the coil is energized, 2 is connected to 1. Increasing current to the coil will increase the control (reduced) pressure proportional. If pressure at ① exceeds the setting induced by the coil, pressure from ① relieved to 3.

Note: Back pressure on ③ becomes additive to the pressure setting at a 1:1 ratio.

Technical specification (For application beyond these parameters, please contactwith us)

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Model	HY-EHPR08-33
Installation position	Unlimited
Storage temperature ($^{\circ}$ C)	−20℃ To +55℃
Ambient temperature ($^{\circ}\!$	−20℃ To +50℃

Hydraulic specification

Max. inlet pressure	207 Bar (3000 psi)
Rated flow	4.0 Lpm(1.05gpm),DP=6 bar(87psi),cartridge only, ① to ③, coil de-energized;
Flow path	Free flow : ① to ③ coil de-energized; Reducing: ② to ① coil energized; Relieving: ① to ③ coil energized. ① is not plumbed externally
Hydraulic fluid	Mineral oil, phosphate-ester
Fluids	7.4~420 cSt
Temperature	-40℃~+120℃, With NBR seals
Cavity	HY08–3,see page H.1.2

Electrical specification

Max. control current	12 VDC coils: 1.2A 24 VDC coils: 0.6A For other voltages, please consult factory
Reducing/relieving pressure range (from zero to max. control current)	0–26 Bar (0 to 375 psi)
Hysteresis	Less than 3%
Dither frequency required	200 Hz
Step response	T on <30 ms; T off <12 ms

Model instruction



Code symbol





A.11.2

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External dimensions

HY-EHPR08-33 (Proportional Pressure Reducing/ Relief Valve)

Specification performance







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