HY-TS10-26 (Proportional Relief Valve)

External dimensions

A.6.3



Specification performance



HY-TS10-27 (Proportional Pilot-operated Relief Valve)

Introduction



Technical specification (for application beyond these parameters, please contact with us)

Model	
Installation position	When p reserve prevent mount t
Storage temperature ($^{\circ}C$)	
Ambient temperature ($^{\circ}$ C)	

Hydraulic specification

Max.operating pressure	241 Bar(350
Minimum operating dither/ pulse frequency	75.7 Lpm (20 gpm),DP=14.8 b ① to ②, coil energized
Flow path	Free flow: ① to ② coil e Relieving: ① to ② coil d
Max. pilot flow	0.76 Lpm (0.2
Hysteresis	Less than
Hydraulic fluid	Mineral oil, phosph
Fluids	7.4~420 cSt (5
Temperature	-40℃~+120℃(-40~250°F)
Cavity	HY10-2,see p

Electrical specification

Max. control current	12 VDC 24 VDC
Relief pressure range (from zero to max. control current)	A:207–10.3 ba B:138–10.3 ba C:69–10.3 bar



Description:

A screw-in, cartridge-style, pilot-operated, hydraulic pressure relief valve, which can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is inversely proportional to DC current input. This valve is intended for use as a pressure limiting device in demanding applications.

Opeartion:

The TS10-27 blocks flow from 1 to 2 until sufficient pressure is present at ? to open the valve by overcoming the preset induced spring force. With no current applied, the valve will relieve at 1 50psi of the spring maximum. Applying current to the coil reduces the induced spring force thereby reducing the valve setting. The regulated pressure is inversely proportional to the input electrical current. Note: This valve is ideal for hydraulic fan drive applications. Please contact the manufactory for more information about electronic controller for fan drive applications.

HY-TS10-27

possible, the valve should be mounted below the oir oil level. This will maintain oil in the armature nting trapped air instability. If this is not feasible, the valve horizontally for best results.

-20℃ To +55℃

-20℃ To +50℃

00 psi)

bar(215 psi) cartridge only,

energized;

de-energized

2 gpm) n 3%

hate-ester

50~2000 sus)

, With NBR seals

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coils:1.10A; coils:0.55A

oar (3000-150 psi); oar (2000-150 psi); ar (1000–150 psi)

A.7.1

HY-TS10-27 (Proportional Pilot-operated Relief Valve)

Model instruction



Code symbol



HY-TS10-27 (Proportional Pilot-operated Relief Valve)

External dimensions



Specification performance







A.7.3