

HYPS10-36 (Sequence Valve Pilot Operated)

Description

A cartridge-style pilot-operated spool-type sequence valve with internal pilot and spring chamber drain.

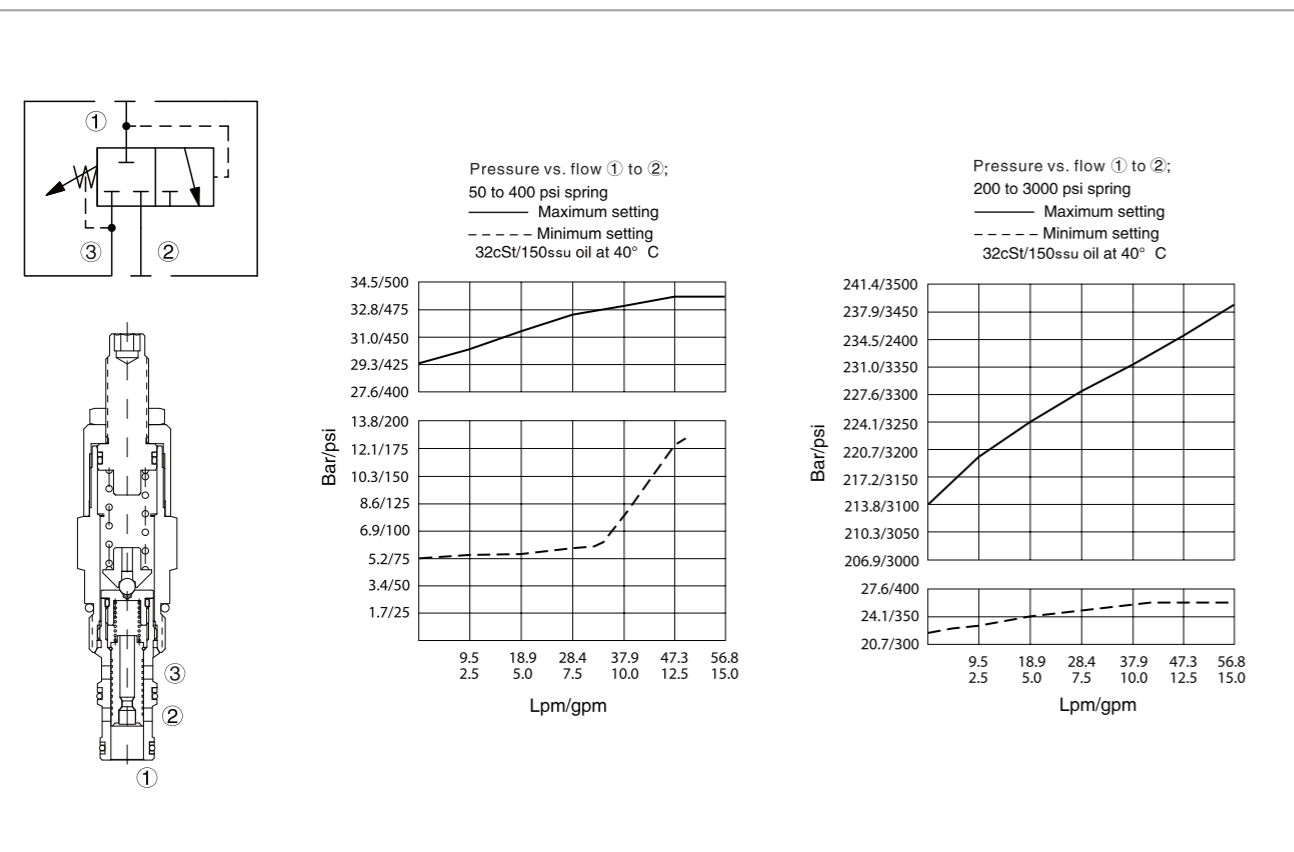
Operation

In its steady state, the valve blocks flow from ① to ②, with the spring chamber drained at ③. On attainment of a pre-determined pressure at ①, the cartridge shifts to open ① to ②. Note that back-pressure on ③ adds to the spring setting value.

Specifications

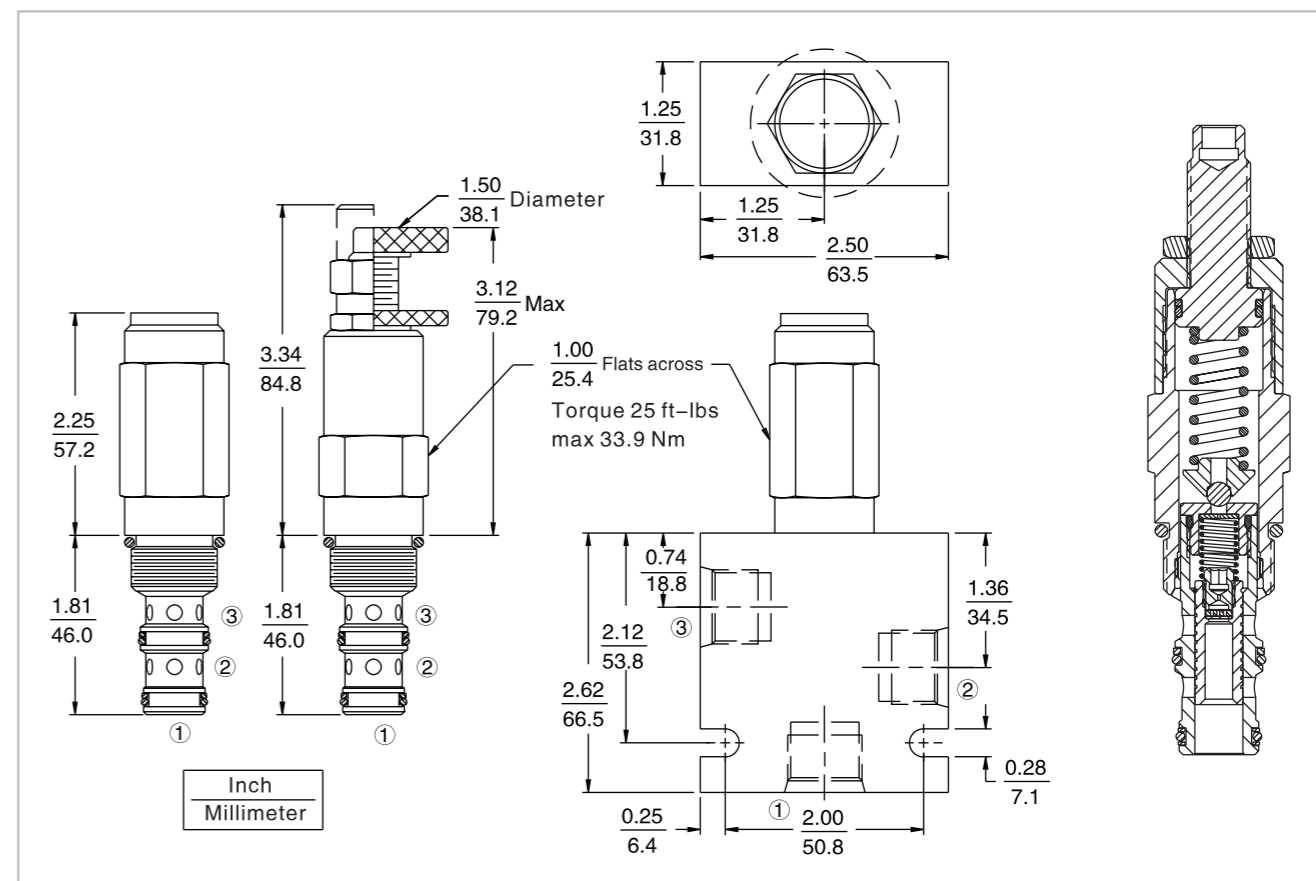
Operating pressure:	350 Bar on port ① and ②; 240 bar on port ③
Flow:	See pressure drop vs. flow graph
Internal leakage:	82 cc/min. max. to 85% of nominal setting
Standard spring ranges:	3.4 ~ 27.6 Bar 10.3 ~ 103.4 Bar 27.6 ~ 206.9 Bar
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-3, see page G.1.4
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: 0.27 kg (0.60 lb);
Steel, the working face is duratected
Surface zinc-plated;
NBR material sealing and check
ring (standard);
Aluminum knob with anodicoxidation
and cover cap.

Block: weight :0.36 kg (0.80 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;
Size might be different, please
consult factory.

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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
- (See 6.003.1)
- Option C w/lockwire holes L

Porting

- Cartridge only 0
- SAE 6 6T
- SAE 8 8T
- 1/4 Inch BSP* 2B
- 3/8 Inch BSP* 3B

BSP body: U.K. Mfr. only

Seals

- Buna N (std.) N
- Fluorocarbon V

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
- 21.0 2100 Psi

Spring range

- 04 3.4 To 27.6 bar (50 To 400 psi)
- 15 10.3 To 103.4 bar (150 To 1500 psi)
- 30 27.6 To 206.9 bar (400 To 3000 psi)

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