**PS08-32 Sequence, External Pilot, Internal Drain**

**DESCRIPTION**
A screw-in, cartridge-style, direct-acting, spool-type, hydraulic sequence valve with external pilot and internal spring chamber drain.

**OPERATION**
In its steady state, the PS08-32 blocks flow from ➁ to ➂. On attainment of a pre-determined pressure at ➀, the valve shifts to open ➀ to ➂. Back pressure at ➂ will have a direct (1:1) effect on the valve’s setting because the spring chamber is vented out ➁.

**FEATURES**
- Adjustments cannot be backed out of the valve.
- Adjustments prohibit springs from going solid.
- Optional spring ranges to 165.5 bar (2400 psi).
- Hardened spool and cage for long life.
- Compact size.

**RATINGS**
- **Operating Pressure:** 240 bar (3500 psi)
- **Flow:** See Performance Chart
- **Internal Leakage:** 82 cc/minute (5 cu. in./minute) max. to 90% of nominal setting
- **Standard Spring Ranges:**
  - 3.4 to 20.7 bar (50 to 300 psi);
  - 6.9 to 41.4 bar (100 to 600 psi);
  - 10.3 to 89.7 bar (150 to 1300 psi);
  - 20.7 to 165.5 bar (300 to 2400 psi)
- **Temperature:** -40 to 120°C with standard Buna seals
- **Filtration:** See page 9.010.1
- **Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity page 9.060.1
- **Installation:** No restrictions; See page 9.020.1
- **Cavity:** VC08-3; See page 9.108.1
- **Cavity Tool:** CT08-3XX; See page 8.600.1
- **Seal Kit:** SK08-3X-TB; See page 8.650.1
DIMENSIONS

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
3 3.5 to 20.7 bar (50 to 300 psi)
6 6.9 to 41.1 bar (100 to 600 psi)
13 10.3 to 89.7 bar (150 to 1300 psi)
24 20.7 to 165.5 bar (300 to 2400 psi)

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-Adj. F
Factory Preset Hidden Adj. H
(See page 8.003.1)
Option C w/ Lockwire Holes L

Cartridge: Weight: 0.25 kg. (0.55 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and back-ups standard.

Standard Ported Body: Weight:
0.27 kg. (0.60 lbs.) Anodized high-
strength 6061 T6 aluminum alloy,
rated to 207 bar (3000 psi). Ductile
iron bodies available; dimensions
may differ. See page 8.008.1

MATERIALS

Cartridge:
- Weight: 0.25 kg. (0.55 lbs.)
- Steel with hardened work surfaces.
- Zinc-plated exposed surfaces.
- Buna N O-rings and back-ups standard.

Standard Ported Body:
- Weight: 0.27 kg. (0.60 lbs.)
- Anodized high-strength 6061 T6 aluminum alloy,
rated to 207 bar (3000 psi).
- Ductile iron bodies available; dimensions
  may differ. See page 8.008.1

Seals
- Buna N (Std.) N
- Fluorocarbon V

Porting
- Cartridge Only 0
- SAE 4 4T
- SAE 6 6T
- 3/8 in. BSP* 3B

Setting in bar† for Adjustable, or
Specify, for example:
M25 25 bar
M100 100 bar

Setting in psi† for Adjustable, or
Specify, for example:
9.0 900 psi
23.5 2350 psi

Spring Range
3 3.5 to 20.7 bar (50 to 300 psi)
6 6.9 to 41.1 bar (100 to 600 psi)
13 10.3 to 89.7 bar (150 to 1300 psi)
24 20.7 to 165.5 bar (300 to 2400 psi)

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

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

U.K. Mfr. Only

HYDRAFORCE.com