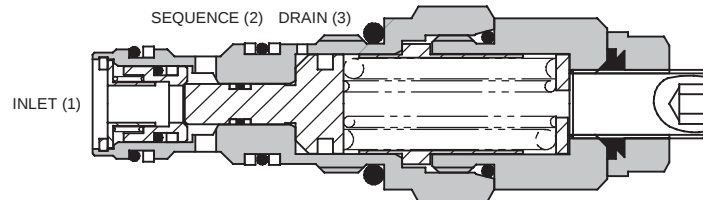
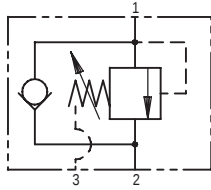




1PSC30 SERIES SEQUENCE VALVE

DIRECT ACTING COMPLETE WITH CHECK VALVE

1PSC30



4

APPLICATION

Sequence valves provide ordered sequencing of two or more operations as with clamp and drill circuits. They can also be used as relief valves where the downstream pressure is high or changes during operation. By taking the drain line directly to tank, back pressure effects are negated.

OPERATION

As with the direct acting relief valves, when the pressure exceeds the spring force, the spool moves back, opening the inlet to outlet.

FEATURES

Match ground and honed hardened working parts give long, trouble-free life. Consistent stable operation providing low pressure rise due to increasing flow. Cartridge construction gives maximum flexibility in mounting. Steel valve bodies available on request.

SPECIFICATIONS

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

Rated Flow	30 litres/min (8 US GPM)
Max Setting	350 bar (5000 psi)
Cartridge Material	Working parts hardened and ground steel. External steel surfaces zinc plated
Body Material	Standard aluminium (up to 210 bar*) Add Suffix '377' for option
Mounting Position	Unrestricted
Cavity Number	A6610 (See Section 17)
Torque Cartridge into Cavity	45 Nm (33 lbs ft)
Weight	PSC30 0.15 kg (0.33 lbs) PSC35 0.41kg (0.90 lbs)
Seal Kit Number	SK395 (Nitrile) SK395V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	0.3 millilitres/min nominal (5 dpm)
Nominal Viscosity Range	5 to 500 cSt

*For applications above 210 bar please consult our technical department or use the steel body option.

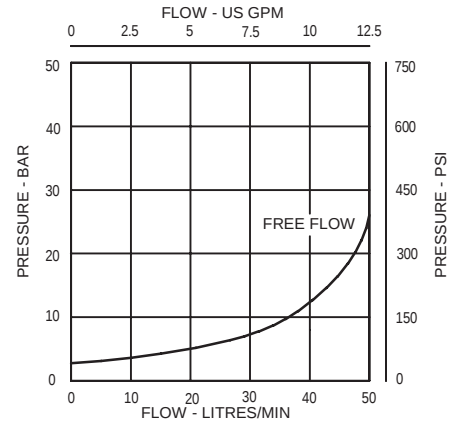
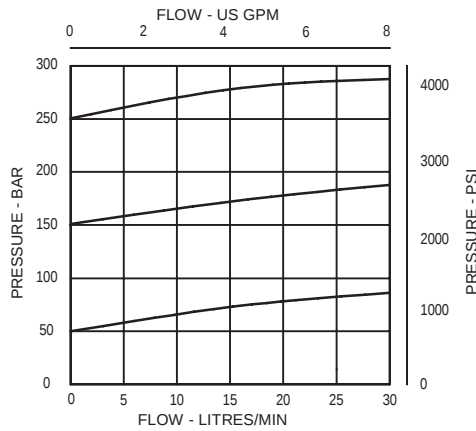
Integrated Hydraulics Ltd

Collins Road, Heathcote Ind. Est., Warwick, CV34 6TF, UK.
Tel: +44 (0) 1926 881171 Fax: +44 (0) 1926 315729
Website: www.integratedhydraulics.com

Integrated Hydraulics Inc

7047 Spinach Drive, Mentor, Ohio 44060, USA
Tel: (440) 974 3171 Fax: (440) 974 3170
Website: www.integratedhydraulics.com

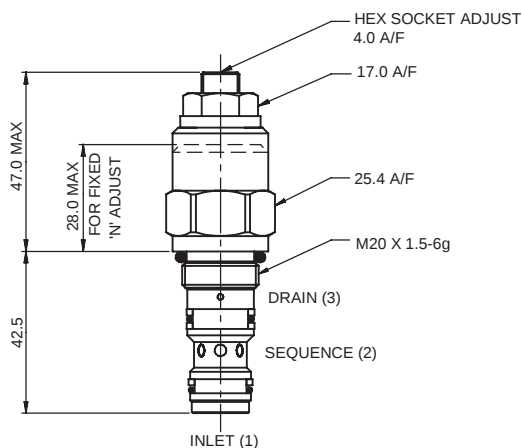
PRESSURE DROP



4

CARTRIDGE ONLY

BASIC CODE: 1PSC30



Tightening torque of "F" adjuster locknut - 20 to 25 Nm

COMPLETE VALVE

3/8" 1/2" PORTS

BASIC CODE: 1PSC35

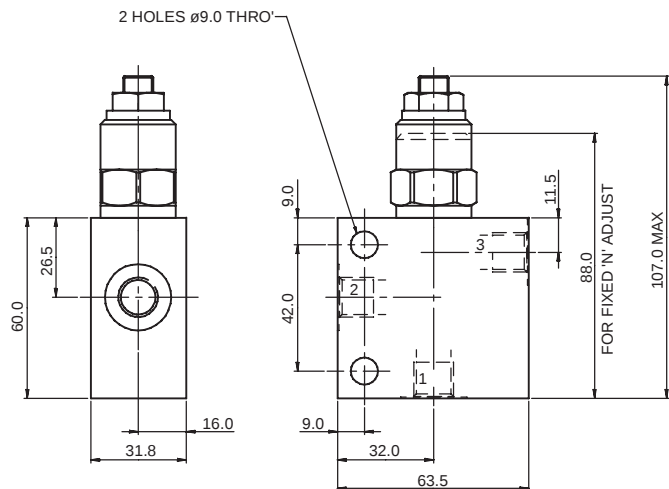
Body ONLY part numbers

BSP, aluminium
3/8" B6743

SAE, aluminium
3/8" B10536
1/2" B7884

BSP, steel
3/8" B12823

SAE, steel
1/2" B11811



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

1PSC F 3W 20 S**

Basic Code

1PSC30 = Cartridge Only

1PSC35 = Cartridge and Body

Adjustment Means

F = Screw Adjustment

N = Fixed - State pressure setting required

Port Sizes - Bodied Valves Only

3W = 3/8" BSP Valve & Cyl Port. 1/4" BSP Pilot Port

6T = 3/8" SAE Valve & Cyl Port. 1/4" SAE Pilot Port

8T = 1/2" SAE Valve & Cyl Port. 1/4" SAE Pilot Port

Seals

S = Nitrile (For use with most industrial hydraulic oils)

SV = Viton (For high temperature and most special fluid applications)

Pressure Range @ 4.8 l/min

10 = 10-100 bar. Std setting 70 bar

20 = 60-210 bar. Std setting 100 bar

35 = 70-350 bar. Std setting 210 bar

Std setting made at 4.8 litres/min

We reserve the right to change specifications without notice