

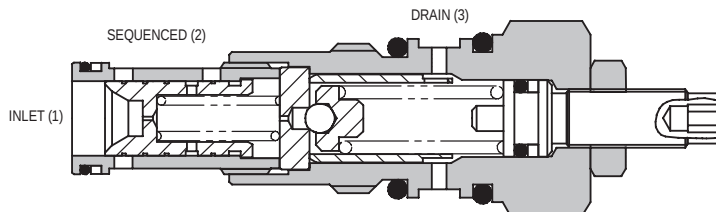
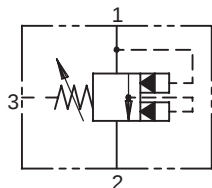


1UPS SERIES SEQUENCE VALVE

UNLOADING - PILOT OPERATED

1UPS100

SLIDING SPOOL TYPE



4

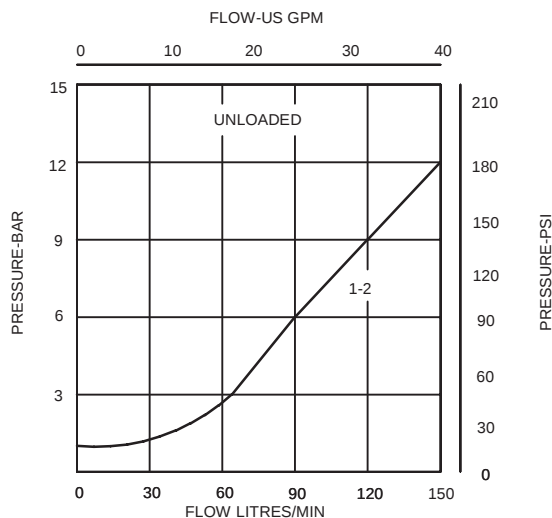
APPLICATION

An off-loading sequence valve opens fully to pass flow to a secondary circuit when the valve pressure setting is reached. This allows flow to the secondary circuit with a minimal pressure drop.

OPERATION

Inlet pressure acts on the pilot section of the valve. When the valve setting is reached, the pilot section opens and pilot flow causes the spool to move back uncovering the radial vent port. The main section then opens fully with pilot flow passing through the vent. The valve remains open until flow to the sequenced port ceases and inlet pressure drops to zero.

PRESSURE DROP



FEATURES

Hardened steel working parts give long, trouble-free life. Selectively matched honed assemblies give accurate performance.

SPECIFICATIONS

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

Rated Flow	150 litres/min (40 US GPM)
Max Setting	350 bar (5000 psi)
Cartridge Material	Working parts hardened and ground steel. External surfaces zinc plated
Body Material	Standard aluminium (up to 210 bar*) Add Suffix '377' for steel option
Mounting Position	Unrestricted
Cavity Number	A880 (See Section 17)
Torque Cartridge into Cavity	60 Nm (44 lbs ft)
Weight	1PSC100 0.17 kg (0.37 lbs) 1PSC145 0.56 kg (1.23 lbs) 1PSC150 0.78 kg (1.72 lbs) 1PSC155 1.05 kg (2.30 lbs)
Seal Kit Number	SK177 (Nitrile) SK177V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	100 millilitres/min nominal
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

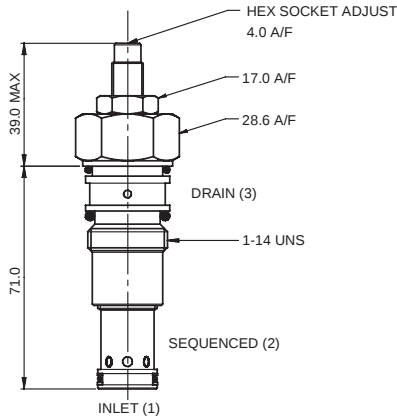
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CARTRIDGE ONLY

BASIC CODE: 1UPS100



COMPLETE VALVE

3/8" 1/2" 3/4" PORTS

BASIC CODE: 1UPS145

(WITHOUT BUILT-IN CHECK)

Body ONLY part numbers

BSP, aluminium

1/2" B4821

3/4" B5466

SAE, aluminium

3/8" B10793

1/2" B6584

3/4" B7883

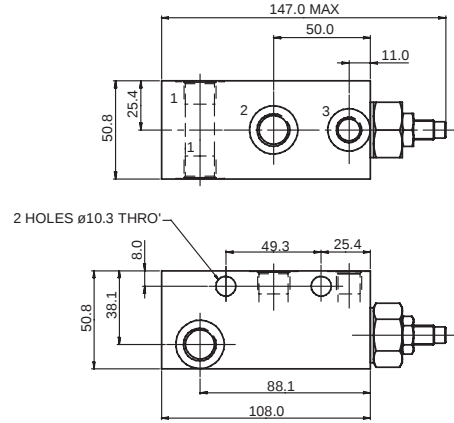
BSP, steel

1/2" B4527

3/4" B4403

SAE, steel

3/4" B11379



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COMPLETE VALVE

3/4" PORTS

BASIC CODE: 1UPS155 (WITH BUILT-IN CHECK)

Sub-assembly part numbers

BSP, aluminium

3/4" BXP23867-6W-S

SAE, aluminium

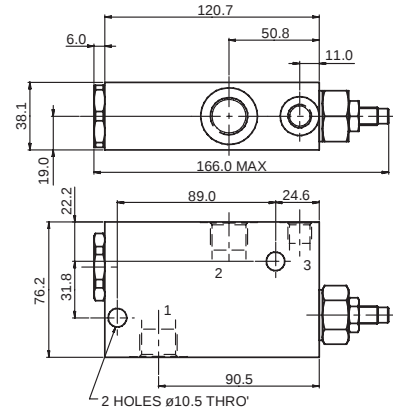
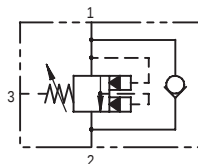
3/4" BXP23867-12T-S

BSP, steel

3/4" BXP23867-6W-S-377

SAE, steel

3/4" BXP23867-12T-S-377



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

1UPS***

P

3W

35

S

Basic Code

1UPS100

= Cartridge Only

1UPS145

= Cartridge and Body

1UPS155

= Cartridge, Body and Check

Adjustment Means

P = Leakproof Screw Adjustment

R = Handknob Adjustment

G = Tamperproof Cap

(See page 4-102 for dimensions)

Port Sizes - Bodied Valves Only

6T = 3/8" SAE

8T = 1/2" SAE

12T = 3/4" SAE

4W = 1/2" BSP

6W = 3/4" BSP

1/4" BSP Drain Ports **1/4" SAE Drain Ports**

Seals

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

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

Pressure Range @ 14 l/min

20 = 10-210 bar. Std setting 100 bar

35 = 50-350 bar. Std setting 210 bar

Std setting made at 14 litres/min

We reserve the right to change specifications without notice