DIRECT ACTING

1DS30

SLIDING SPOOL TYPE

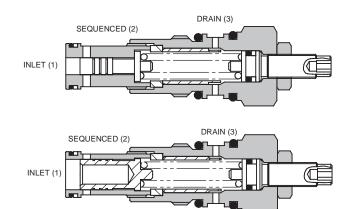


1DS100

4

SLIDING SPOOL TYPE





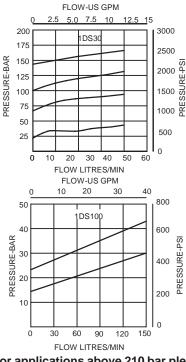
APPLICATION

Direct acting sequence valves are ideal for diverting oil to a second circuit at a predetermined pressure as in clamp and drill circuits, or as a relief where the back pressure varies. 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.

PRESSURE DROP



FEATURES

Stable, quiet operation. Cartridge construction gives maximum flexibility in mounting. Offering good repeatability and reseat.

SPECIFICATIONS

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

	1
Rated Flow	1DS30 30 litres/min (8 US GPM) 1DS100 150 litres/min (40 US GPM)
Max Setting	1DS30 140 bar (2000 psi) 1DS100 40 bar (600 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 steel option
Mounting Position	Unrestricted
Cavity Number	A880 (See Section 17)
Torque Cartridge into Cavity	60 Nm (44 lbs ft)
Weight	1DS30/1DS100 0.28 kg (0.62 lbs) 1DS35/1DS145 0.88 kg (1.94 lbs) 1DS36/1DS150 0.71 kg (1.57 lbs) 1DS155 1.17 kg (2.60 lbs)
Seal Kit Number	SK177 (Nitrile) SK177V (Viton)
Filtration	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	25 millilitres/min nominal 15 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.

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Website: www.integratedhydraulics.com

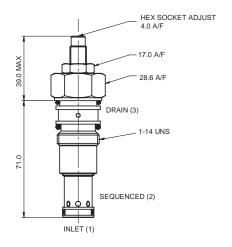
Integrated Hydraulics Inc

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



CARTRIDGE ONLY

BASIC CODE: 1DS30 1DS100

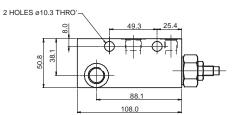


COMPLETE VALVE

BASIC CODE: 1DS35 3/8" 1/2" PORTS 1DS145 3/8" 1/2" **3/4" PORTS**

Body ONLY part numbers

BSP, aluminium SAE, aluminium BSP. steel SAE, steel B10793 3/8" B4821 1/2" B6584 1/2" B4527 3/4" B5466 3/4" B7883 3/4" B4403 3/4" B11379 147.0 MAX 50.0



COMPLETE VALVE

(WITH BUILT-IN CHECK)

3/4" PORTS BASIC CODE: 1DS155

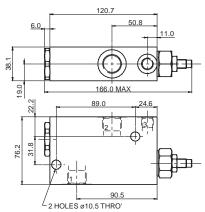
Sub-assembly part numbers

6W = 3/4" BSP

12T = 3/4" SAE

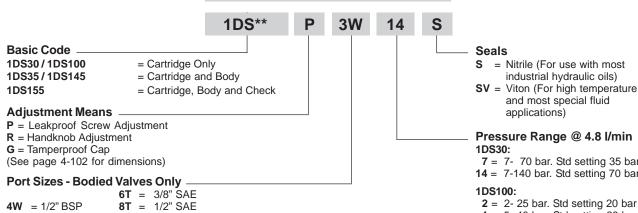
1/4" BSP Drain Ports 1/4" SAE Drain Ports

BSP, aluminium SAE, steel BSP, steel SAE, aluminium BXP23867-6W-S 3/4" BXP23867-12T-S 3/4" BXP23867-6W-S-377 3/4" BXP23867-12T-S-377



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE



We reserve the right to change specifications without notice

Pressure Range @ 4.8 I/min 1DS30:

applications)

industrial hydraulic oils)

and most special fluid

7 = 7- 70 bar. Std setting 35 bar **14** = 7-140 bar. Std setting 70 bar

1DS100:

2 = 2-25 bar. Std setting 20 bar **4** = 5- 40 bar. Std setting 28 bar Std setting made at 4.8 litres/min