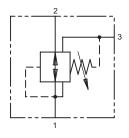
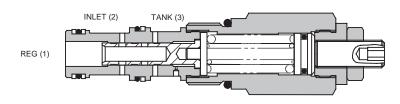
1PD SERIES PRESSURE REDUCING VALVE

DIRECT ACTING WITH REVERSE RELIEF

1PD20

SLIDING SPOOL TYPE





APPLICATION

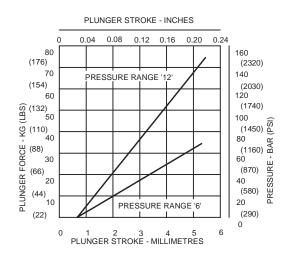
5

To provide an adjustable regulated pressure which is lower than supply pressure, as when more than one operating pressure is required from one pump. Direct acting models are suited to lower flow applications and regulated pressures to 140 bar (2000 psi). This valve also acts as a relief valve, relieving from regulated line to tank if shock or surge pressures occur in the regulated line.

OPERATION

Normally open, the valve throttles or closes to maintain constant pressure in the regulated line. As in the other direct acting valves, the spring force holds the valve open.

PLUNGER ADJUSTMENT RANGE



FEATURES

Hardened steel working parts are individually match ground to assure long life, reliability and high accuracy.

SPECIFICATIONS

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

Rated Flow	30 litres/min (8 US GPM)
Max Setting	Up to 140 bar (2000 psi)
Max Inlet Pressure	350 bar (5000 psi)
Max Differential	210 bar (3000 psi) between 1 and 2
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	A5572 (See Section 17)
Torque Cartridge into Cavity	60 Nm (44 lbs ft)
Weight	1PD20 0.24 kg (0.53 lbs) 1PD25 1.15 kg (2.53 lbs) 1PDC25 1.25 kg (2.75 lbs)
Seal Kit Number	SK339 (Nitrile) SK339V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	35 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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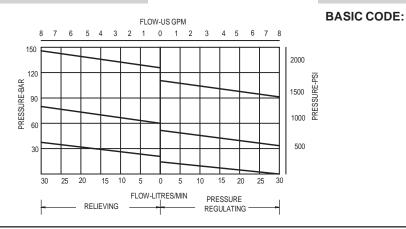
Website: www.integratedhydraulics.com

Integrated Hydraulics Inc

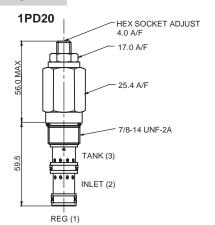
7047 Spinach Drive, Mentor, Ohio 44060, USA Tel: (440) 974 3171 Fax: (440) 974 3170 Website: www.integratedhydraulics.com



PRESSURE DROP



CARTRIDGE ONLY



COMPLETE VALVE

3/8" 1/2" PORTS

1PD25

Body ONLY part numbers

BSP, aluminium SAE, aluminium B13837 3/8"

BASIC CODE:

B10645 B7784 1/2"

BSP, steel 3/8"

SAE, steel B13838 1/2" B11805

COMPLETE VALVE

3/8" 1/2" PORTS

(WITH REVERSE FLOW CHECK)

1PDC25 BASIC CODE: Sub-assembly part numbers

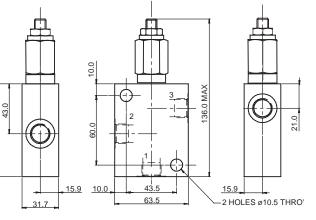
BSP, aluminium 3/8" BXP21795-3W-S

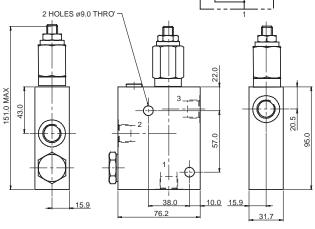
BSP. steel 3/8" BXP21795-3W-S-377

SAE, aluminium 3/8" BXP21795-6T-S 1/2" BXP21795-8T-S

SAE, steel

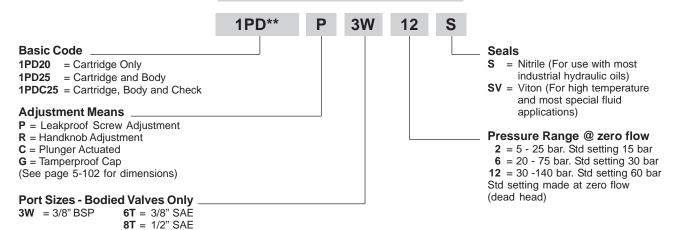
1/2" BXP21795-8T-S-377





Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE



We reserve the right to change specifications without notice