# **1DR SERIES RELIEF VALVE**

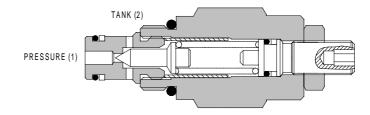


# **DIRECT ACTING**

#### **1DR2**

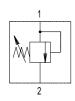
# **POPPET TYPE**

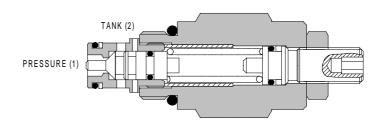




### 1DR30

#### **POPPET TYPE**





# **APPLICATION**

Both fitting the same cavity, the 1DR2 is ideally suited for use as a pilot valve or a thermal relief, whereas the 1DR30 is an economical solution for small flow systems where a fast response is required.

#### **OPERATION**

Pressure on the nose of the cartridge acts over the seat area moving the poppet against the spring, allowing relief flow to tank.

## **FEATURES**

#### 1DR2 Series:

Fast acting, good reseat, ideal for remote operation of larger valves.

### 1DR30 Series:

Fast acting, low pressure rise due to flow for a direct acting valve.

# **SPECIFICATIONS**

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

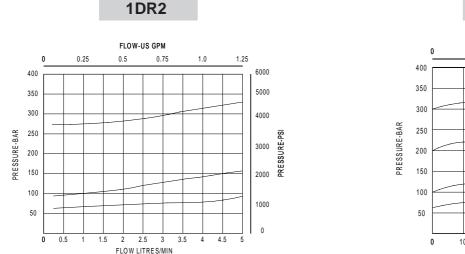
Rated Flow	1DR2/22 1.2 litres/min (0.3 US GPM) 1DR30/35 30 litres/min (8.0 US GPM)
Max Setting	400 bar (5800 psi)
Cartridge Material	Working parts hardened and ground steel. External surfaces zinc plated.
Body Material	Standard aluminium Add suffix '377' for steel option
Mounting Position	Unrestricted
Cavity Number	A879 (See Section 17)
Torque Cartridge into Cavity	45 Nm (33 lbs ft)
Weight	1DR2 0.14 kg (0.30 lbs) 1DR22 0.28 kg (0.60 lbs) 1DR30 0.17 kg (0.37 lbs) 1DR35 0.31 kg (0.67 lbs)
Seal Kit Number	1DR2/22 SK 187-02 (Nitrile) SK 187-02V (Viton) 1DR30/35 SK243 (Nitrile)
December ded	SK243V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Leakage	-20°C to +90°C
Operating Temp	0.3 millilitres/min nominal (5 dpm)
Nominal Viscosity Range	5 to 500 cSt

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## PRESSURE DROP



# FLOW-US GPM 12 6000 5000 4000 3000 2000 1000 30 40 50 20 FLOW LITRES/MIN

1DR30

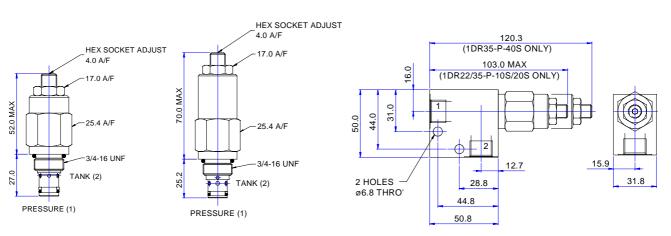
**CARTRIDGE ONLY** 

# **COMPLETE VALVE** 1/4" 3/8" PORTS

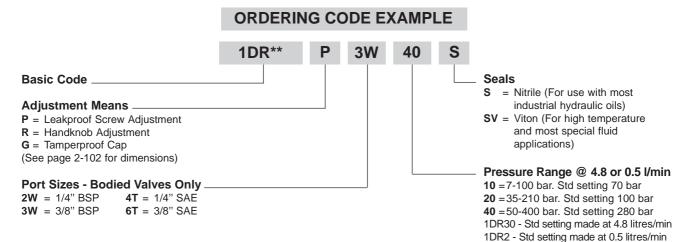
**BASIC CODE: 1DR2** 

**BASIC CODE: 1DR30** 

**BASIC CODE: 1DR22 OR 1DR35** 



Where measurements are critical request certified drawings



We reserve the right to change specifications without notice