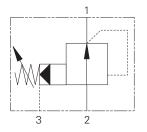
# 1PA200 - Pressure Reducing Valve

Spool, pilot operated 200 L/min (52 USgpm) • 350 bar (5000 psi)



#### Operation

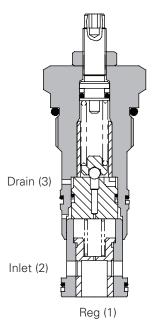
This valve is normally open, allowing oil from the inlet to pass through to the regulated port of the cartridge.

When the regulated pressure reaches the valve setting, the pilot section opens causing a pressure imbalance across the main spool which moves, throttling the inlet flow, preventing any further pressure rise in the regulated line.

#### **Features**

Internal parts hardened, match ground and honed to give long, trouble-free life. Pilot style design allows for high flows and accurate performance.

## Sectional View



#### Performance Data

Ratings	and	Specifications

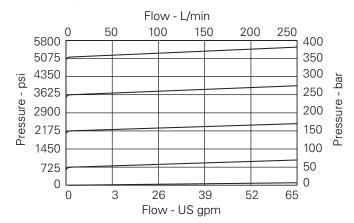
200 L/min (52 USgpm)
Inlet 350 bar (5000 psi) Reg 30–350 bar (435–5000 psi)
210 bar (3000 psi) between 1 and 2
Working parts hardened and ground steel. External surfaces zinc plated.
Standard aluminium (up to 210 bar*). Add suffix "377" for steel option.
Unrestricted
A16102 (See Section 17)
100 Nm (76 lbs ft)
1PA200 0.72 kg (1.59 lbs) 1PA250 1.06 kg (2.34 lbs)
SK173 (Nitrile) SK173V (Viton®)
BS5540/4 Class 18/13 (25 micron nominal)
-30°C to +90°C (-22°C to 194°F)
550 milliliters/min @ standard setting
5 to 500 cSt

Viton is a registered trademark of E.I. DuPont

## Description

This is a pilot operated pressure reducing valve designed to maintain a constant downstream pressure lower than the inlet pressure. Ideal for use in two pressure systems or to protect low pressure actuators such as brake cylinders.

## Pressure Drop Curve





## 1PA200 - Pressure Reducing Valve

16T

Spool, pilot operated 200 L/min (52 USgpm) • 350 bar (5000 psi)

#### **Model Code**

1PA\*\*\* - P 8W - 35 S

1 Basic Code

1PA200 - Cartridge Only 1PA250 - Cartridge and Body

2 Adjustment Means

- P Leakproof Screw Adjustment
- R Handknob Adjustment
- G Tamperproof Cap (See page E-7 for dimensions)

3 Port Sizes - Bodied Valves Only

1" SAE 1/4" SAE Drain Port

 Code
 Port Size Housing Number
 Aluminium Single
 Steel Single

 8W
 1" BSP 1/4" BSP Drain Port
 B3496
 B3497

 12T
 3/4" SAE 1/4" BSP Drain Port
 B10786

4 Pressure Range @ zero flow

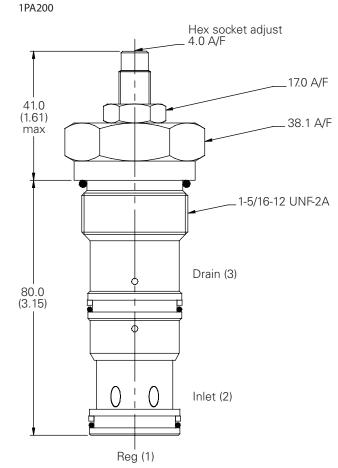
Note: Code based on pressure in bar.

- 20 10–210 bar Std setting 100 bar
- 35 30-350 bar Std setting 280 bar Std setting made at zero flow (dead head)
- 5 Seals
- S Nitrile (For use with most industrial hydraulic oils)
- SV Viton\* (For high temperature and most special fluid applications)

## **Dimensions**

mm (inch)

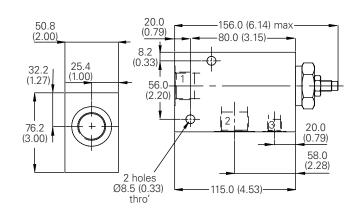
Cartridge Only Basic Code



Complete Valve 1PA250

B6807

B11555



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

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



