1PA100

SLIDING SPOOL TYPE





APPLICATION

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.

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.

SPECIFICATIONS

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

Rated Flow		
Rated Flow	100 litres/min (26 US GPM)	
Pressure Range	10 to 350 bar (150 to 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	A880 (See Section 17)	
Torque Cartridge into Cavity	60 Nm (44 lbs ft)	
Weight	1PA1000.17 kg (0.37 lbs)1PA1500.60 kg (1.32 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	
Pilot Flow	500 millilitres/min @ standard setting	
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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COMPLETE VALVE

BASIC CODE:	1PA150			
Body ONLY part numbers				
BSP, aluminium	SAE, aluminium			
1/2" B4821	1/2" B6584			

3/4"

B5466

3/4"

B7883

1	BSP, s	BSP, steel	
	1/2"	B4	
	3/4"	B44	

SAE. steel 3/4" B11379

1/2" 3/4" PORTS

B4527

B4403



2 HOLES ø10.3 THRO'-

REG (1)



Where measurements are critical request certified drawings



We reserve the right to change specifications without notice