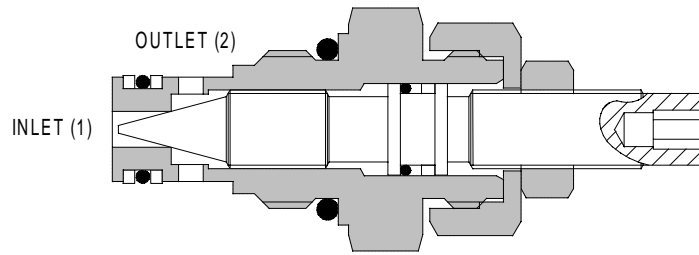
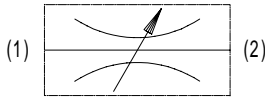




2CN SERIES NEEDLE VALVE

FINE ADJUSTMENT - POSITIVE SHUT OFF

2CN20



APPLICATION

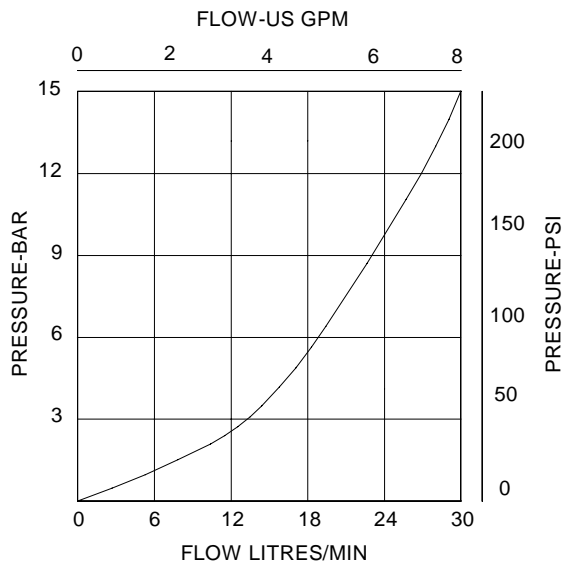
The cartridge needle valves can be set and locked to restrict flow in both directions. A typical use is the speed control of cylinders or other actuators. (For pressure compensated flow control valves see Section 9). The fine adjustment and complete shut-off allow the valves to be used for snubbing pressure gauges and for use as shut-off valves.

8

OPERATION

Rotation of the adjustment screw varies the valve opening to give a flow path approximately proportional to the turns of the screw.

PRESSURE DROP



FEATURES

All steel construction with hardened and ground adjustment needle. Cartridge construction for versatility in applications. Sealed adjuster for leak-free adjustment.

SPECIFICATIONS

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

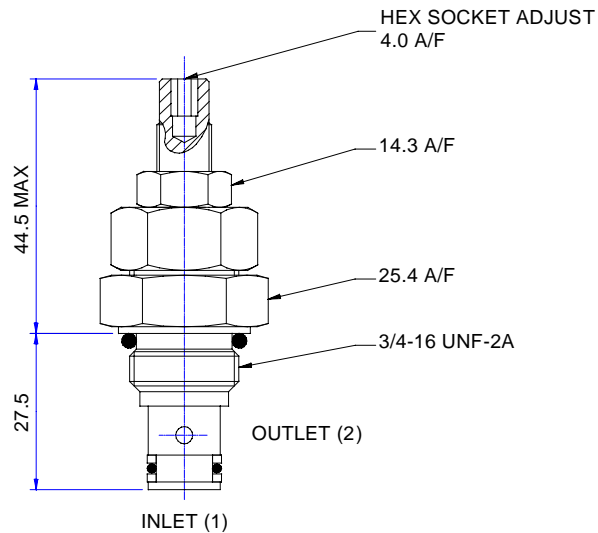
Rated Flow	20 litres/min (5 US GPM)	
Max Pressure	350 bar (5000 psi)	
Cartridge Material	External parts zinc plated	
Body Material	Standard aluminium Add suffix '377' for steel option.	
Mounting Position	Unrestricted	
Cavity Number	A879 (See Section 17)	
Torque Cartridge into Cavity	30 Nm (22 lbs ft)	
Weight	2CN20	0.12 kg (0.26 lbs)
	2CN25	0.40 kg (0.87 lbs)
Seal Kit Number	SK446 (Nitrile)	SK446V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)	
Operating Temp	-20°C to +90°C	
Leakage	0.3 millilitres/min nominal (closed)	
Nominal Viscosity Range	5 to 500 cSt	

Integrated Hydraulics Limited

Collins Road, Heathcote Industrial Estate, Warwick, CV34 6TF, England.
Tel: +44 (0) 1926 881171 Fax: +44 (0) 1926 315729 Website: www.integratedhydraulics.com

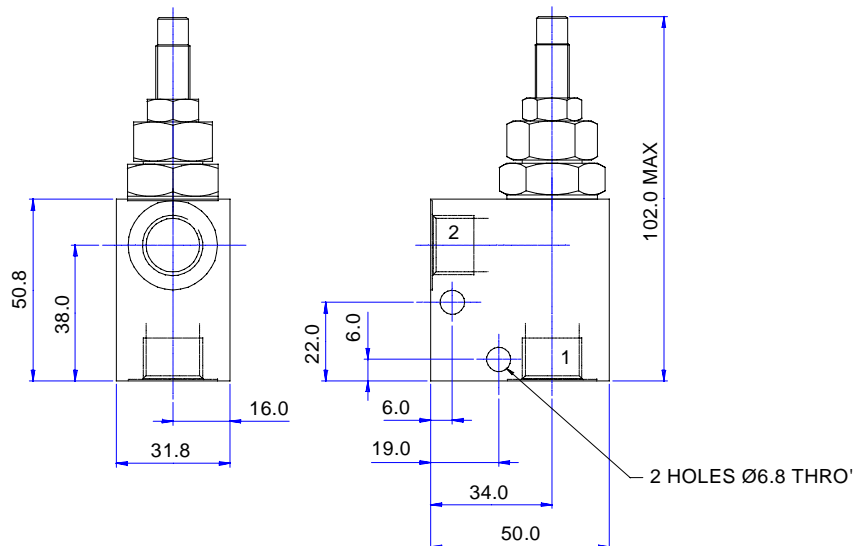
CARTRIDGE ONLY

BASIC CODE: 2CN20



COMPLETE VALVE 1/4" 3/8" PORTS

BASIC CODE: 2CN25



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

2CN**

P

2W

S

Basic Code

Adjustment Means

P = Leakproof Screw Adjustment
R = Handknob Adjustment
(See page 8-102 for dimensions)

Port Sizes - Bodied Valves Only

2W = 1/4" BSP 4T = 1/4" SAE
3W = 3/8" BSP 6T = 3/8" SAE

Seals

S = Nitrile (For use with most industrial hydraulic oils)
SV = Viton (For high temperature and most special fluid applications)

We reserve the right to change specifications without notice