

DESCRIPTION

A screw-in, cartridge-style, variable orifice, hydraulic flow restrictor valve.

OPERATION

The INN12-20 increases the size of its orifice from fully closed to fully open with counter clockwise adjustment rotation.

FEATURES

- Adjustments cannot be backed out of the valve.
- Desired settings may be locked down.
- Hardened parts for long life.
- Industry common cavity.
- Aluminum knob option.
- Positive shut-off..
- Linear adjustment.

RATINGS

Operating Pressure:240 bar (3500 psi)

Flow:

113.6 lpm (30 gpm) nominal at 7 bar (100 psi) at full open 4.5 turns

Internal Leakage:

0.15 ml/minute (3 drops/minute) max. at shut-off

Adjustment Torque Required:0.

17 Nm (1.5 lb.-in.) at 7 bar (100 psi);

16.9 Nm (150 lb.-in.) at 207 bar (3000 psi)

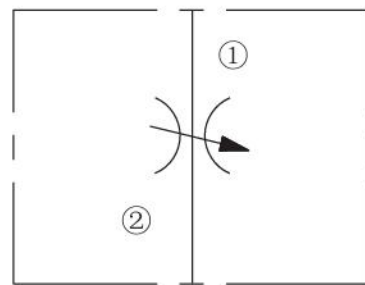
Temperature:-40°C ~ 120°C

Fluids:Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)

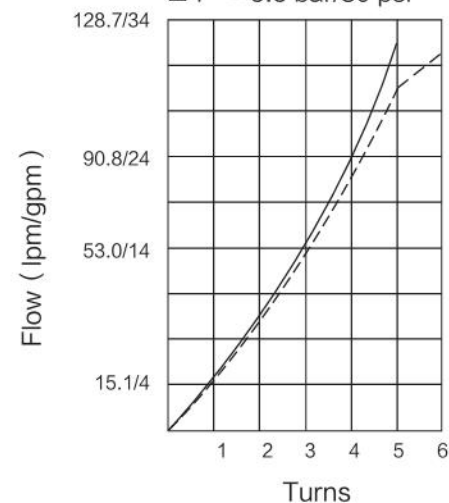
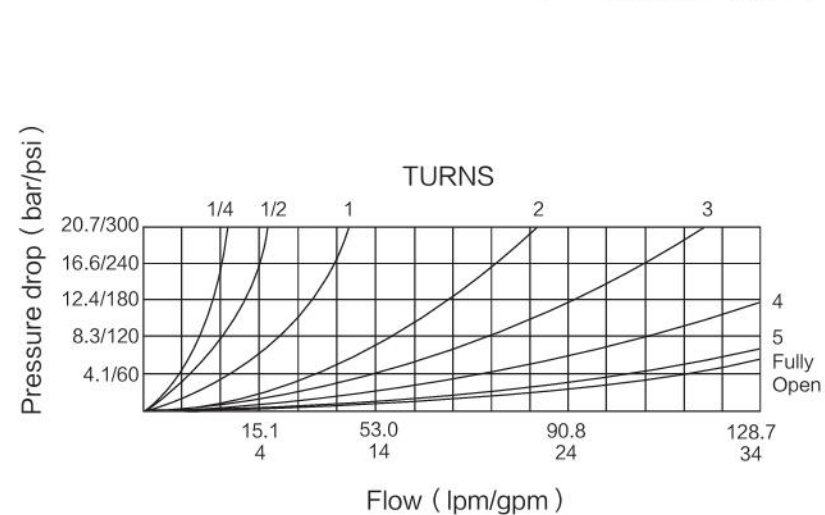
Cavity: T12-2A; See bottom of this catalog.

$\Delta P = 6.9 \text{ bar}/100 \text{ psi}$ —
 $\Delta P = 5.5 \text{ bar}/80 \text{ psi}$ - - -

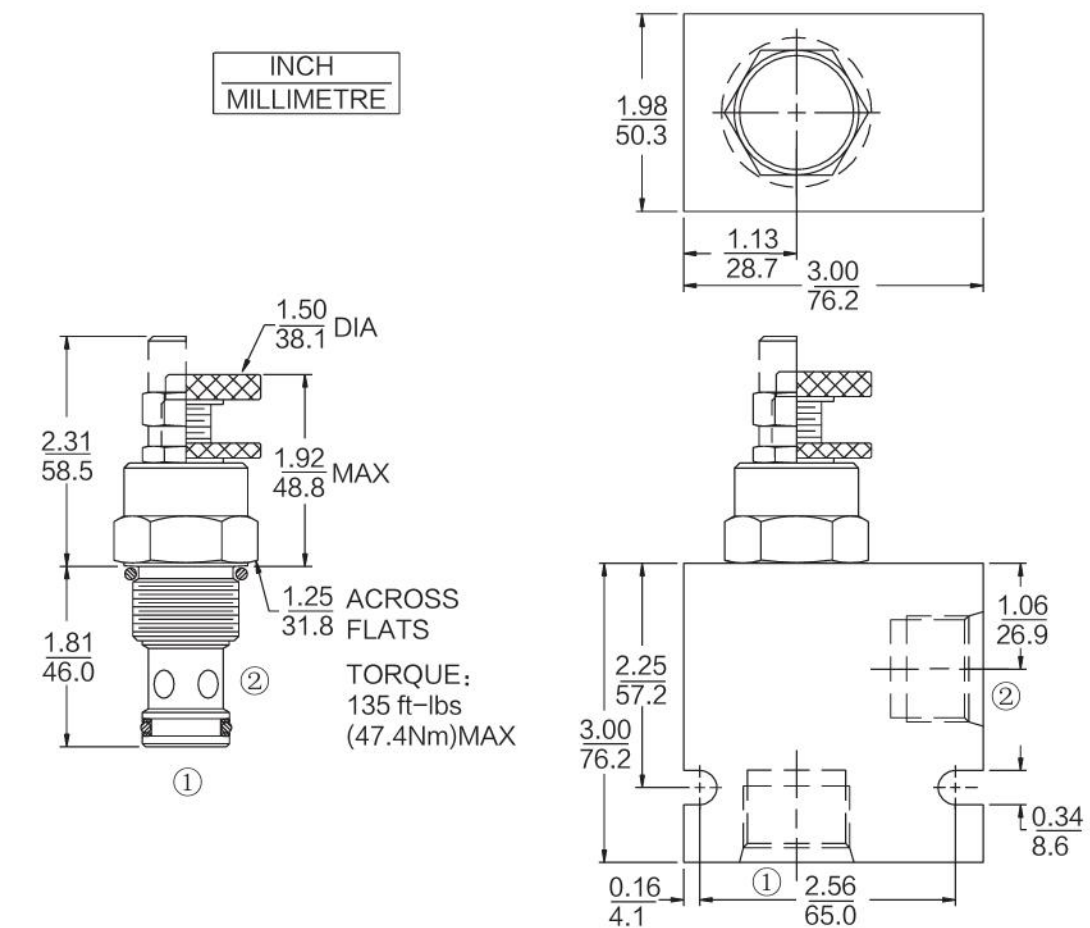
ISO SYMBOL



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

Cartridge: Weight:0.20kg (0.45 lbs) ;
 Steel with hardened work surfaces.
 Zinc-plated exposed surfaces.
 Buna N O-rings and polyester elastomer back-ups standard.
 Anodized aluminum knobs.

BODY:Weight:
 0.57kg (1.25 lbs) ;
 Anodized high-strength aluminum alloy, rated to 240 bar (3500 psi).
 Ductile iron bodies available; dimensions may differ.

TO ORDER

Adjustment Option		Seals	
1/4 in. Hex Allen	A	N	Buna N (Std.)
Head 1-1/2 in. Dia. Alum.	B	V	Fluorocarbon
Knobs Option A with Cover	C		
Cap Top Knob with Lock	D		
Nut Top Knob Only	E		
Porting			
	0		Cartridge Only
	10T		SAE 10
	12T		SAE 12
	16T		SAE 16
	4B		1/2 in. BSP*
	6B		3/4 in. BSP*
	8B		1 in. BSP*