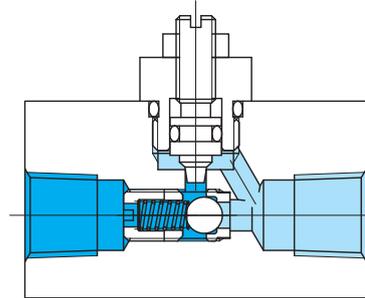
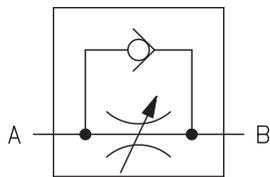


One way restrictors FN(1)



Functional Symbol



- Valves integrate restrictor and check valve functions to provide metered flow in one direction and free flow in the reverse direction.

Model Code

(F3)-FN(1)-4(K)-20-JA-J

1 2 3 4

- 1 Hydraulic fluid
Omit: mineral oil based fluid, water-glycol based fluid
F3: phosphate ester fluid
- 2 One-way restrictor (threaded connection)
FN: tapered needle (standard)
FN1: notched needle (fine adjustment)

- 3 Adjuster
Omit: slotted adjustment screw
K: micrometer knob
- 4 Design no.

Specifications

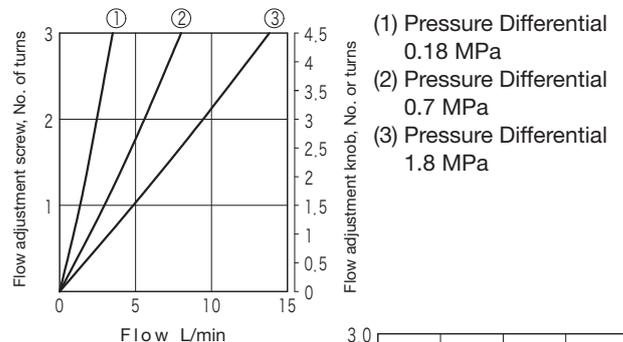
Model Code	Working Pressure MPa	Rated Flow L/min	Cracking Pressure in Free Flow Direction MPa	Weight kg
FN(1)	14	9	0.07	0.25

Notes on Operation

- Turning the flow adjustment screw or knob clockwise will reduce flow and counterclockwise will increase flow.
- Tapered needle type valves provide linear flow over the entire 0 ~ 9 L/min range as long as the differential pressure across the valve remains constant.
- Needle type valves with notches are ideal for control of small flows (0 ~ 2 L/min).

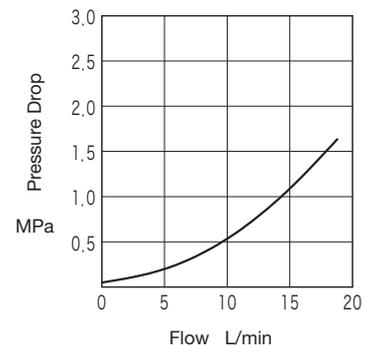
Characteristics Curve (at 20 mm²/s) (typical examples)

● Valve Opening - Flow Characteristics (tapered needle)

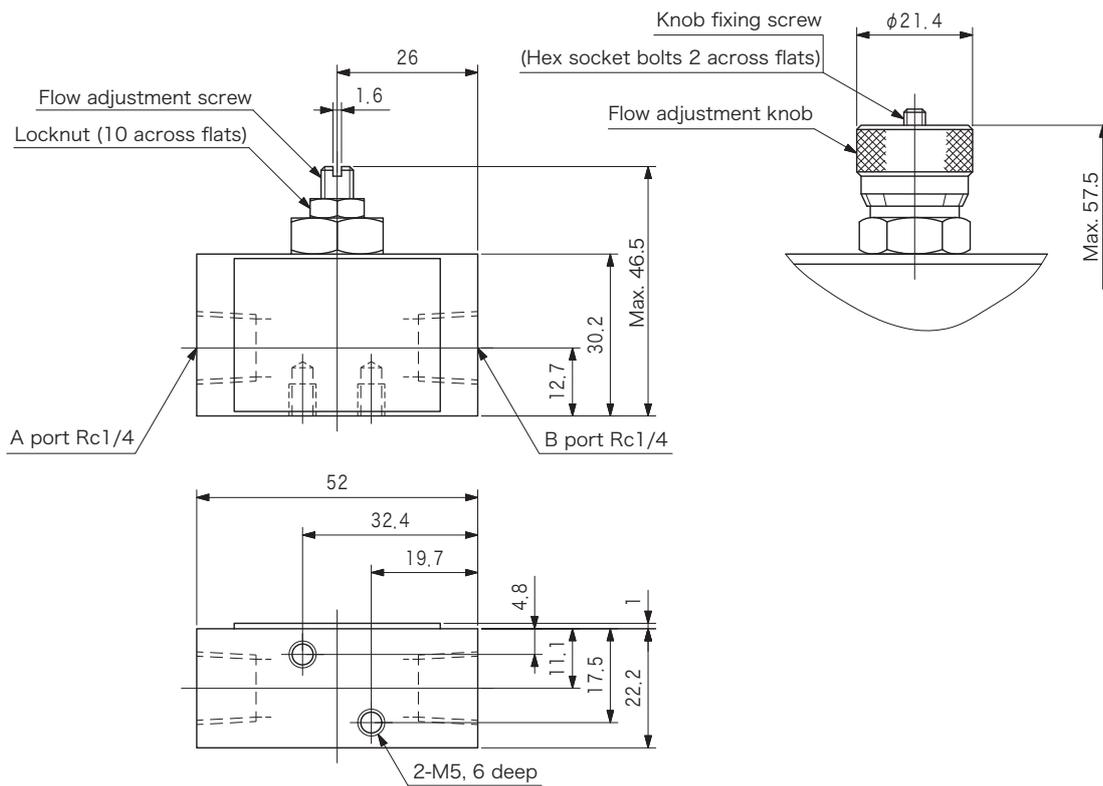


- (1) Pressure Differential 0.18 MPa
- (2) Pressure Differential 0.7 MPa
- (3) Pressure Differential 1.8 MPa

Pressure Drop Characteristics in Free Flow Direction



Dimensions



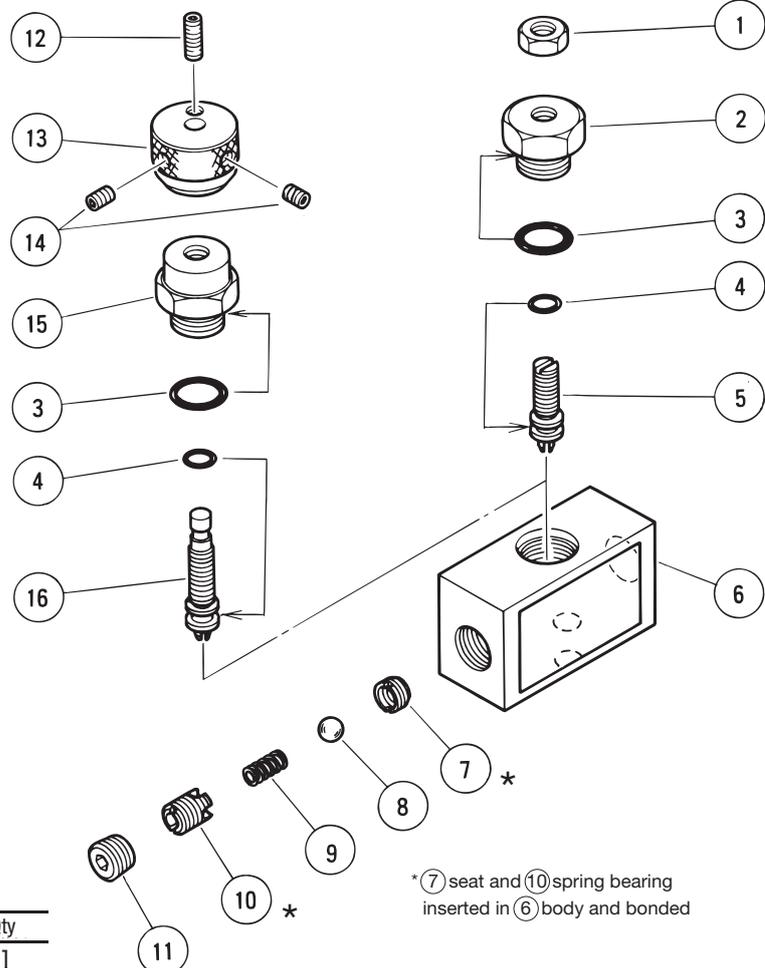
D
1-2

Flow Control Valves

Construction

K: Knob

Omitted for slotted adjustment screw



O-ring

No.	Part Number	Standard	Qty
3	007901317	AS568-013 (NBR, Hs70)	1
4	007900819	AS568-008 (NBR, Hs90)	1

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