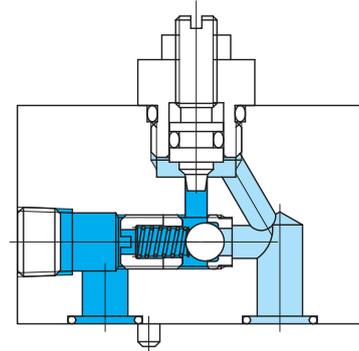
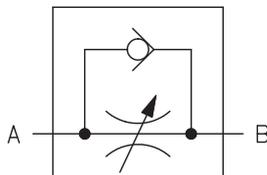


# One way restrictors FN(1)G



## Functional Symbol



- Valves integrate restrictor and check valve functions to provide metered flow in one direction and free flow in the reverse direction.
- Valve (S8 type) available for flow control in both directions.

## Model Code

(F3)-FN(1)G-3(K)-JA-30-(S8)

1 2 3 4 5

### 1 Hydraulic fluid

Omit: mineral oil based fluid, water-glycol based fluid  
F3: phosphate ester fluid

### 2 One-way restrictor (gasket mounting)

FNG: tapered needle (standard)  
FN1G: notched needle (fine adjustment)

### 3 Adjuster

Omit: slotted adjustment screw  
K: micrometer knob

### 4 Design no.

### 5 Special feature

S8: two way restrictor

## Specifications

Model Code	Working Pressure MPa	Rated Flow L/min	Cracking Pressure in Free Flow Direction MPa	Weight kg
FN(1)G	14	9	0.07	0.35

## Notes on Operation

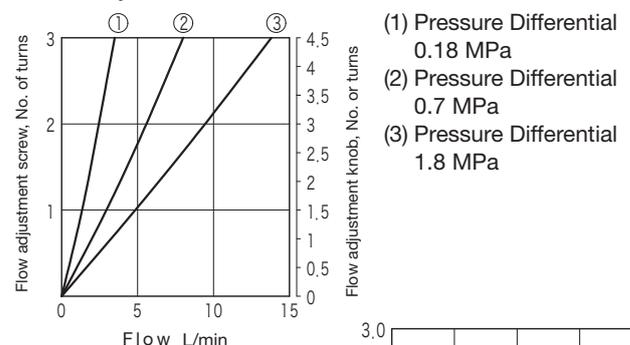
- Turning the flow adjustment screw or knob clockwise will reduce flow and counterclockwise will increase flow.
- Tapered needle type valves provide linear flow over the entire 0 ~ 9 L/min range as long as the differential pressure across the valve remains constant.
- Needle type valves with notches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

## Mounting Bolts (JIS B 1176, Strength Class 12.9)

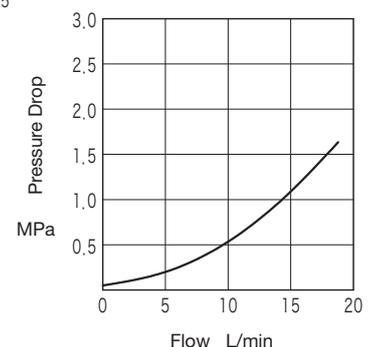
- M6x35 or 1/4-20UNCx38.1 4 pcs
- Tightening torque of mounting bolts: 8 to 10 N·m

## Characteristics Curve (at 20 mm<sup>2</sup>/s) (typical examples)

### ● Valve Opening - Flow Characteristics (tapered needle)



### Pressure Drop Characteristics in Free Flow Direction



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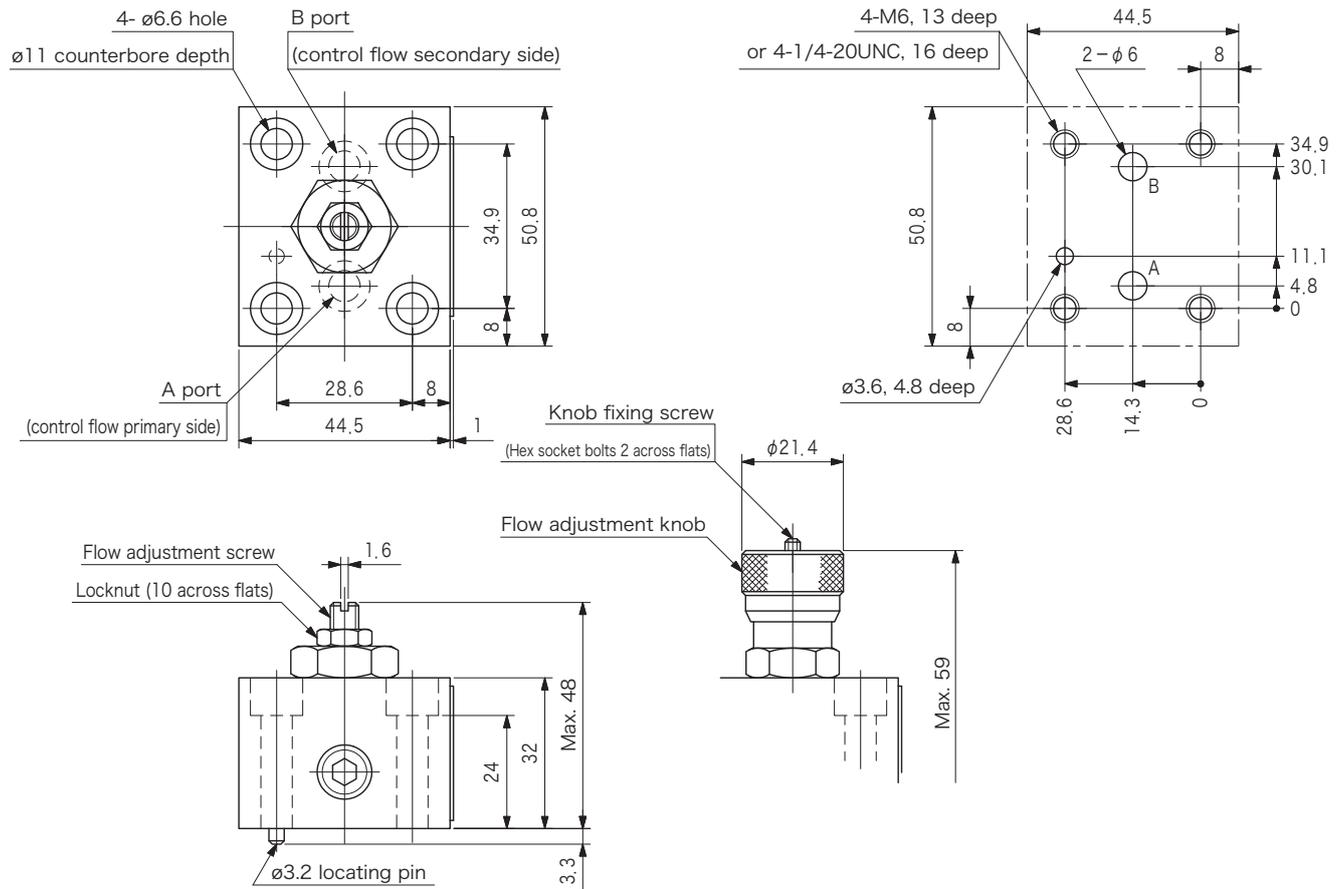
D  
2-1

Flow Control Valves

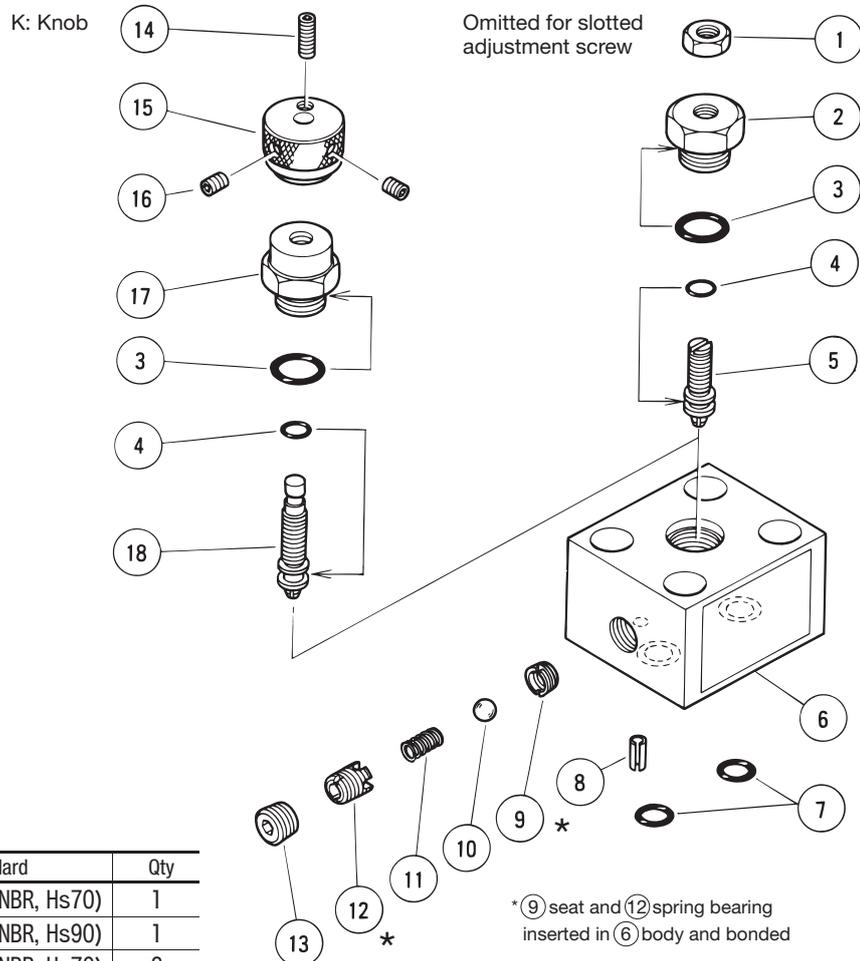
# Dimensions

D  
2-2  
Flow Control Valves

## ● Mounting dimensions



# Construction



### O-ring

No.	Part Number	Standard	Qty
3	007901317	AS568-013 (NBR, Hs70)	1
4	007900819	AS568-008 (NBR, Hs90)	1
7	007901117	AS568-011 (NBR, Hs70)	2