

Needle Valves

Used as stop valves for pressure gauge lines and small-capacity line. Also can be used as restrictors for regulating flow rates in pilot lines.

Specifications

Model Numbers		Max. Flow L/min	Max. Operating Pressure MPa	Mass kg
In-Line Type	Angle Type			
GCT-02-34	GCTR-02-34	★	35	0.34

★ Depends on allowable pressure drops. See Adjustment Handle Position vs. Flow characteristics and Pressure Drop at Fully Open characteristics.



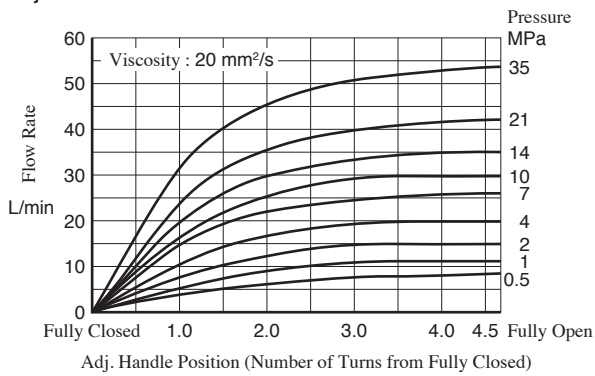
Model Number Designation

GCT	-02	-34
Series Number	Valve Size	Design Number
GCT : In-line Type Needle Valve, Threaded Connection	02	34
GCTR : Angle Type Needle Valve, Threaded Connection		

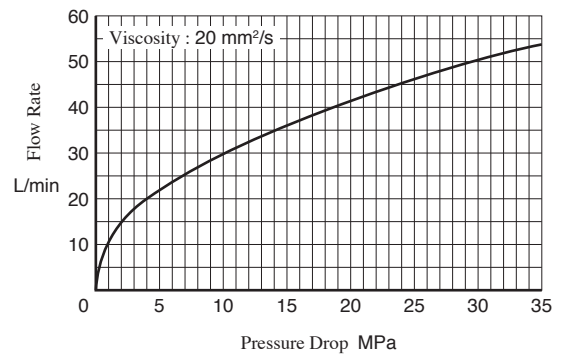
Graphic Symbol



Adjustment Handle Position vs. Flow



Pressure Drop at Fully Open

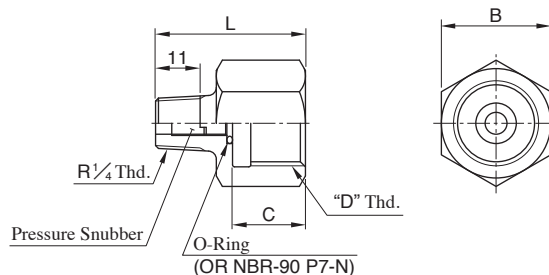


Adapter

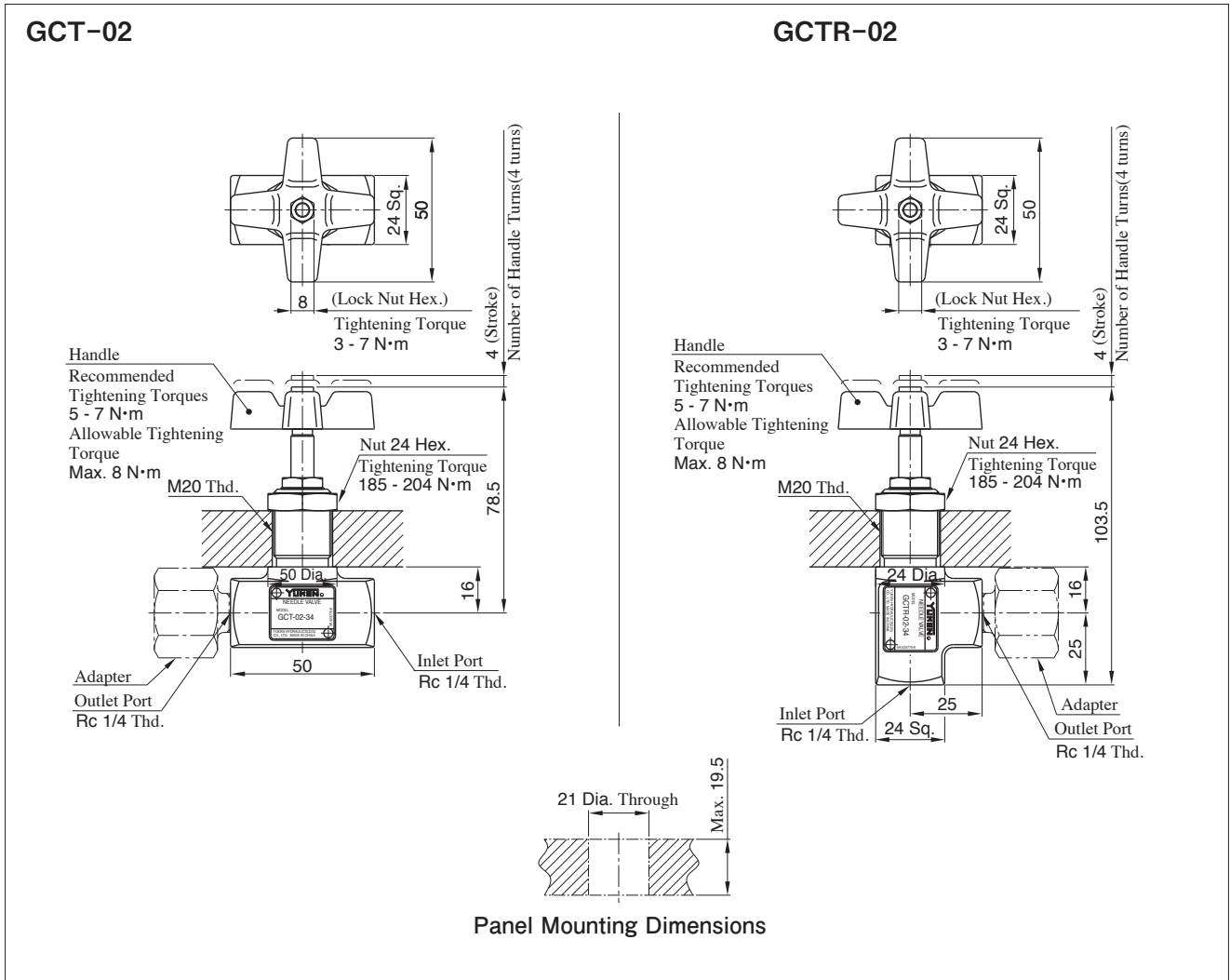
Used where pressure gauges are attached directly to needle valves. Equipped with pressure snubber for reducing harmful surges to protect pressure gauges. Adapters are not accessories to needle valves. Order them referring to the table below.

Adapter Type	Thread Size "D" Thd.	B	C	L	Mass kg
AG-02S	G $\frac{1}{4}$	24	14	32	0.075
AG-03S	G $\frac{3}{8}$	24	16	35	0.075
AG-04S	G $\frac{1}{2}$	27	18	37	0.08

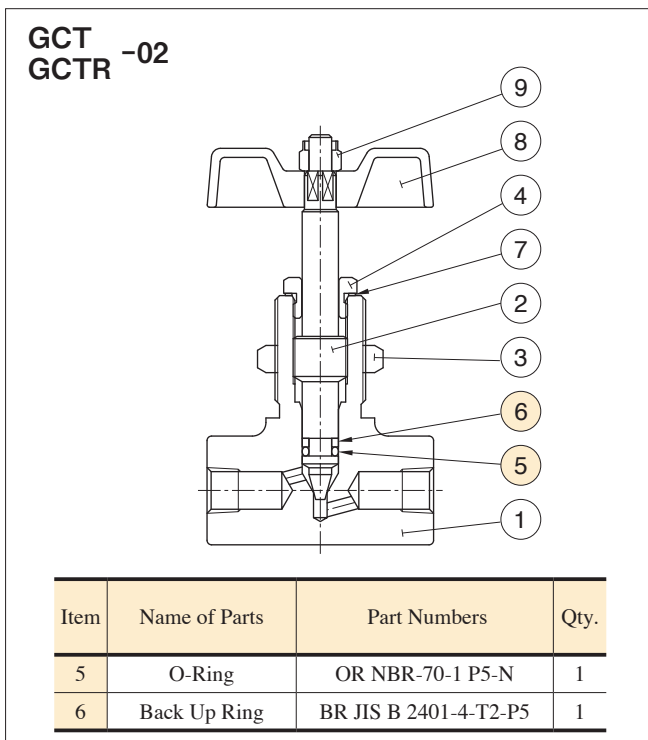
AG-02S, 03S, 04S



Note: See table above for dimensions.



■ List of Seals



■ Installation

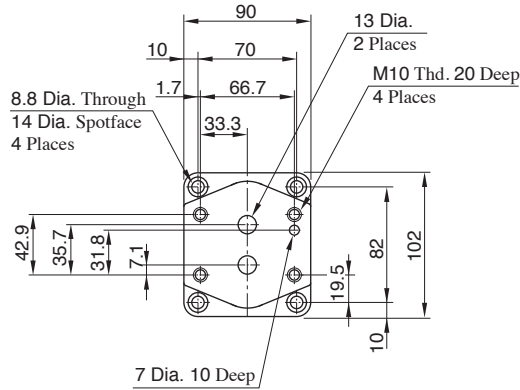
Refer to the following procedures to fit the valve with a panel. Figure in a circle below is shown on the left drawing.

1. Remove the nut (9) then take off the handle (8).
2. Take off the nut (3).
3. Insert the needle valve to a panel hole.
4. Screw the nut (3) on to the valve and fix the valve with the panel.
5. Fit the handle (8) and fix it with the nut (9).

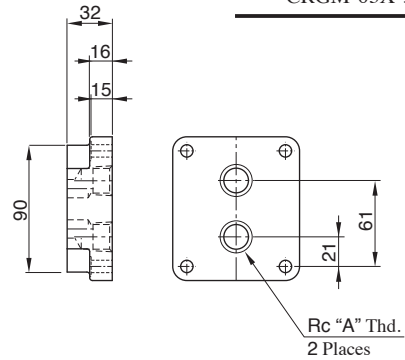
■ Interchangeability in Installation between Current and New Design

The needle valve has changed model from a 33 to a 34 design to improve assembly workability. There are no changes in specifications, external dimensions, or installation. The nameplate mounting position is on the opposite face of the current design.

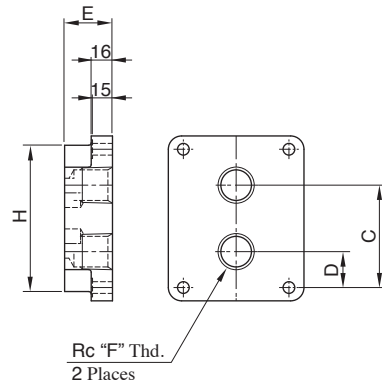
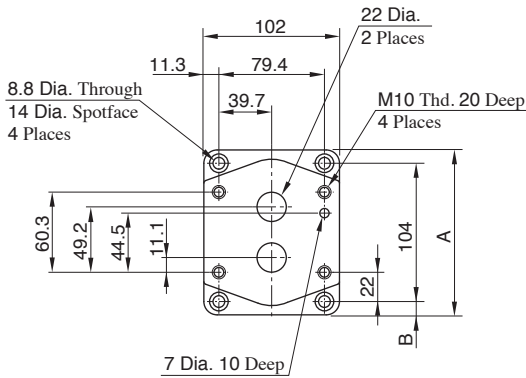
● **Sub-Plate**
CRGM - 03, 03X



Sub-Plate Model Numbers	A
CRGM-03-50	3/8
CRGM-03X-50	1/2

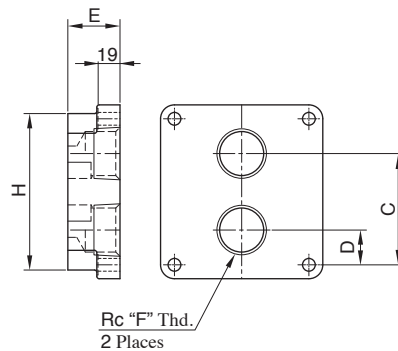
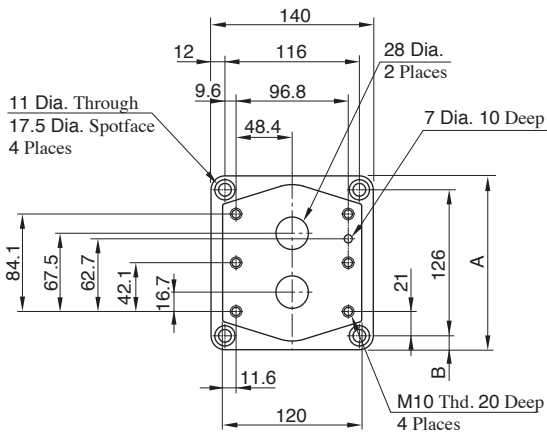


CRGM - 06, 06X



Sub-Plate Model Numbers	A	B	C	D	E	F	H
CRGM-06-50	124	10	77	27	36	3/4	110
CRGM-06X-50	136	16	82.3	22	45	1	130

CRGM - 10, 10X



Sub-Plate Model Numbers	A	B	C	D	E	F	H
CRGM-10-50	150	12	96	30	45	1 1/4	135
CRGM-10X-50	177	25.5	104	22	50	1 1/2	167