

H Type Pressure Control Valves HC Type Pressure Control Valves

Max. Pressure 21 MPa

B



HG Type



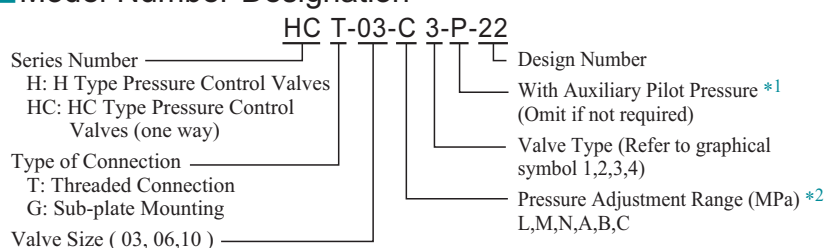
HCG Type

These valves are pressure control valves directly operated with hydraulic buffer, which can be actuated by internal or external pilot pressure. The valves with an integral check valve are also available. These valves can be used in such a case where free reverse flow from the secondary port to primary port is required. There are various type of valves available including sequence, counterbalance, unloading and low pressure relief valves, all of which are operated by a pressure rise in the circuit being sensed either internally or remotely. (Please refer to Graphic Symbol)

Rating

Valve Size	Model No.	Pressure Adjustment MPa (kgf/cm ²)	Max. Flow L/min	Mass kg
3/8	HT-03-※※※-22	L : 0.25 ~ 0.45 (2.5 ~ 4.5)	50	3.7
	HG-03-※※※-22			4.0
	HCT-03-※※※-22	M : 0.45 ~ 0.9 (4.5~9)		4.1
	HCG-03-※※※-22			4.8
3/4	HT-06-※※※-22	N : 0.9 ~ 1.8 (9 ~ 18)	125	6.2
	HG-06-※※※-22			6.1
	HCT-06-※※※-22	A : 1.8 ~ 3.5 (18 ~ 35)		7.1
	HCG-06-※※※-22			7.4
1-1/4	HT-10-※※※-22	B : 3.7 ~ 7.0 (35 ~ 70)	250	12.0
	HG-10-※※※-22			11.0
	HCT-10-※※※-22	C : 7.0 ~ 14 (70 ~ 140)		13.8
	HCG-10-※※※-22			13.8

Model Number Designation



*1. Models with auxiliary pilots are used where valves must be operated under a lower external pilot pressure than the adjusted pressure. This does not apply to pressure adjustment ranges L, M and H of valve type 1.

*2. In addition, type 1 is only possible for pressure adjustment ranges L and M. (applicable only for H type)

Graphic Symbol

Series No.	Valve Type	Auxiliary Port	
		Without	With (P)
H※	Type 1 Low Pressure Relief Valve		—
	Type 2 Sequence Valve		
	Type 3 Sequence Valve		
	Type 4 Unloading valve		
HC※	Type 1 Counterbalance Valve		
	Type 2 Sequence and Check Valve		
	Type 3 Sequence and Check Valve		
	Type 4 Counterbalance Valve		

Mounting Bolts (Attachment)

Model No.	Socket Head Cap	Screw Q'ty	Tightening Torque N•m
HG-03	M10 x 50 Lg	4	60~74
HCG-03	M10 x 70 Lg	4	
HG-06	M10 x 50 Lg	4	
HCG-06	M10 x 80 Lg	4	
HG-10	M10 x 50 Lg	6	
HCG-10	M10 x 90 Lg	6	

Sub-plate

Valve Model No.	Sub-plate Model No.	Piping Size Rc	Mass kg
HG -03-※※※-22	HGM-03-20	3/8	1.6
HCG -03-※※※-22	HGM-03X-20	1/2	
HG -03-※※※-P-22	HGM-03-P-20	3/8	2.0
HCG -03-※※※-P-22	HGM-03X-P-20	1/2	
HG -06-※※※-22	HGM-06-20	3/4	2.4
HCG -06-※※※-22	HGM-06X-20	1	3.0
HG -06-※※※-P-22	HGM-06-P-20	3/4	2.4
HCG -06-※※※-P-22	HGM-06X-P-20	1	3.0
HG -10-※※※-22	HGM-10-20	1-1/4	4.8
HCG -10-※※※-22	HGM-10X-20	1-1/2	5.7
HG -10-※※※-P-22	HGM-10-P-20	1-1/4	4.8
HCG -10-※※※-P-22	HGM-10X-P-20	1-1/2	5.7

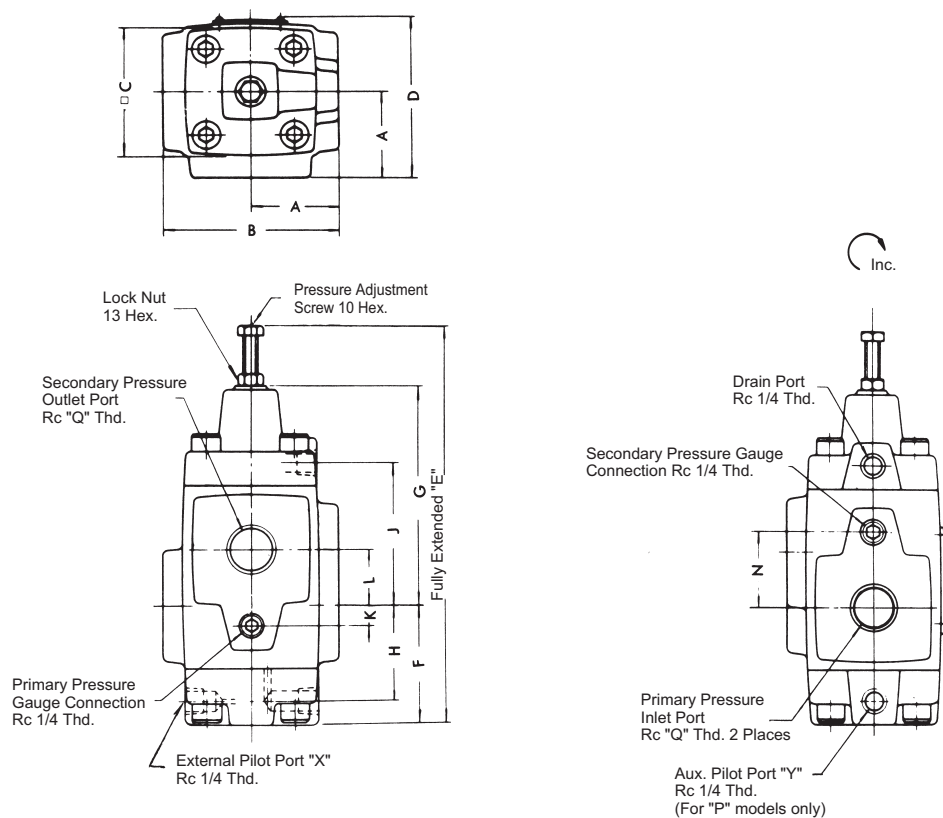
Sub-plates are available. When ordering, please specify sub-plate model from the table above (page 66).

H Type Pressure Control Valves

Max. Pressure 21 MPa

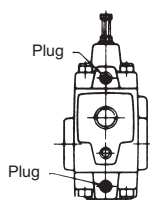
HT-03, 06, 10

Type 3: Sequence Valve
(External Pilot, External Drain)

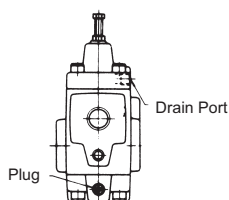


Model No.	A	B	C	D	E	F	G	H	J	K	L	N	Q
HT-03	41	82	60	74	191	57	106	43	70	0	28	28	3/8
HT-06	48	96	73	87	221	64.5	123.5	50.5	80.5	9	33	42	3/4
HT-10	66	132	86	112	272	84	149	66	98	12	40	52	1-1/4

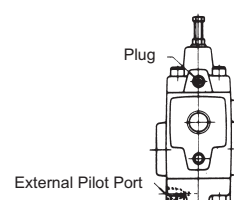
Type 1: Low Pressure Relief Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence Valve
(Internal Pilot, External Drain)



Type 4: Unloading Valve
(External Pilot, Internal Drain)



H Type Pressure Control Valves

Max. Pressure 21 MPa

B

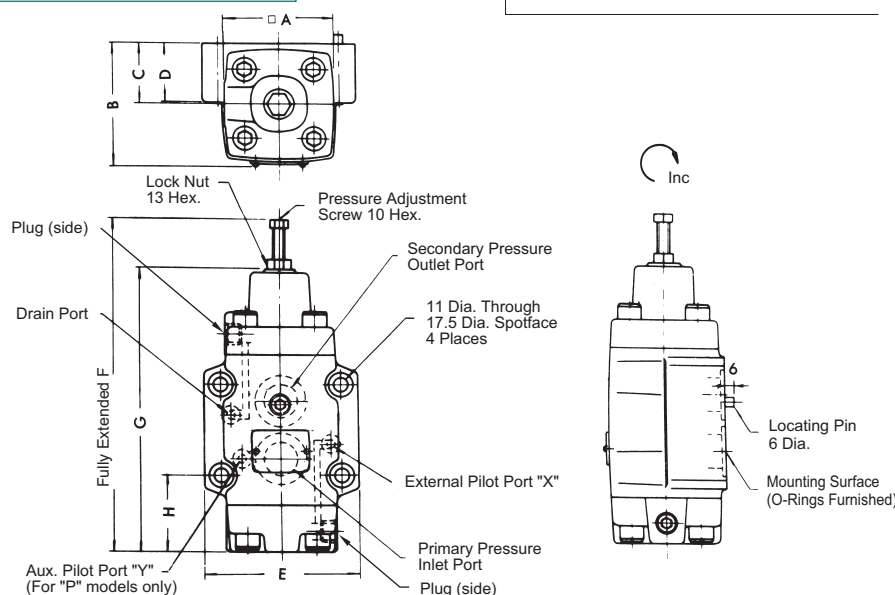
HG-03, 06

Type 3: Sequence Valve
(External Pilot, External Drain)

Mounting Surface:

HG-03: ISO 5781-AG-06-2-A-87

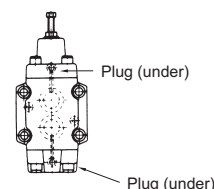
HG-06: ISO 5781-AH-08-2-A-87



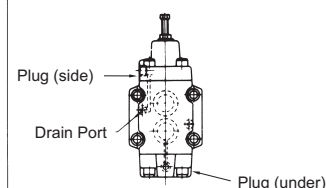
Model No.	A	B	C	D	E	F	G	H
HG-03	60	67	35	39	89	191	163	49.6
HG-06	73	79	40	39	102	221	188	51

Note: For dimensions of mounting surface, please refer to HGM-03 & 06 type sub-plate. (page 66)

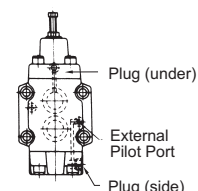
Type 1: Low Pressure Relief Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence Valve
(Internal Pilot, External Drain)



Type 4: Unloading Valve
(External Pilot, Internal Drain)

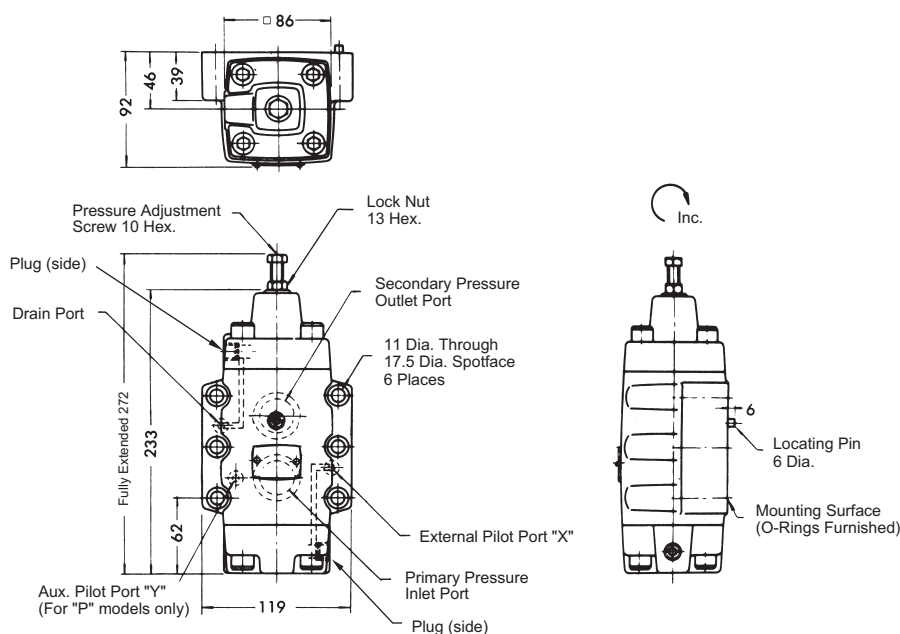


HG-10

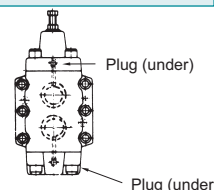
Type 3: Sequence Valve
(External Pilot, External Drain)

Mounting Surface: ISO 5781-AJ-10-2-A-87

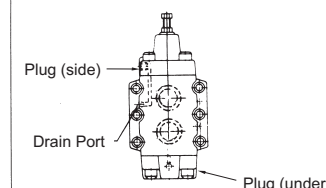
Note: For dimensions of mounting surface, please refer to HGM-10 type sub-plate. (page 66)



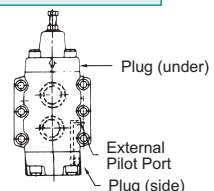
Type 1: Low Pressure Relief Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence Valve
(Internal Pilot, External Drain)



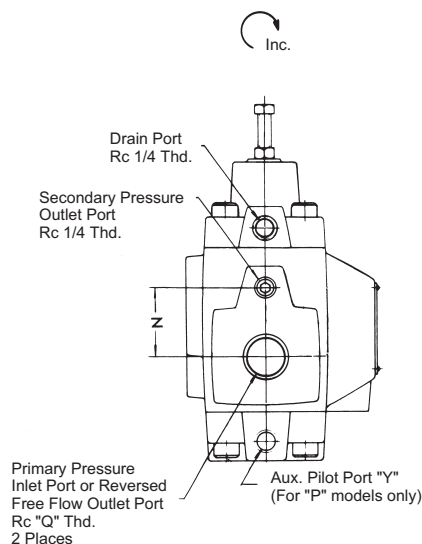
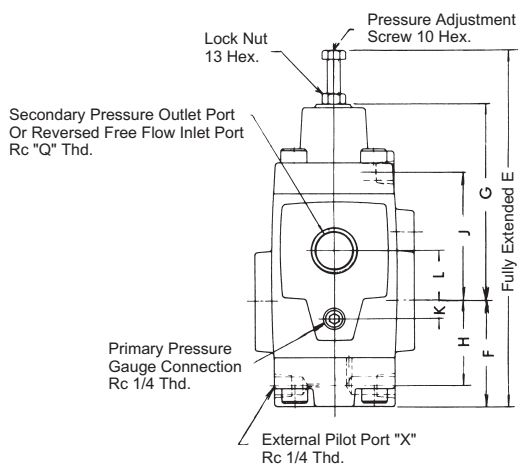
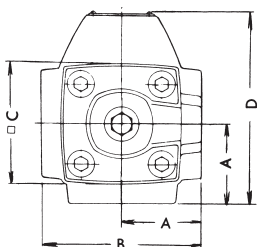
Type 4: Unloading Valve
(External Pilot, Internal Drain)



HC Type Pressure Control Valves Max. Pressure 21 MPa

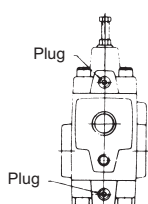
HCT-03, 06, 10

Type 3: Sequence and Check Valve
(External Pilot, External Drain)

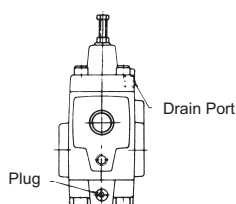


Model No.	A	B	C	D	E	F	G	H	J	K	L	N	Q
HCT-03	41	82	60	96	191	57	106	43	70	0	28	28	3/8
HCT-06	48	96	73	116	221	64.5	123.5	50.5	80.5	9	33	42	3/4
HCT-10	66	132	86	152	272	84	149	66	98	12	40	52	1-1/4

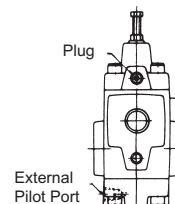
Type 1: Counterbalance Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence and Check Valve
(Internal Pilot, External Drain)



Type 4: Counterbalance Valve
(External Pilot, Internal Drain)



HC Type Pressure Control Valves Max. Pressure 21 MPa

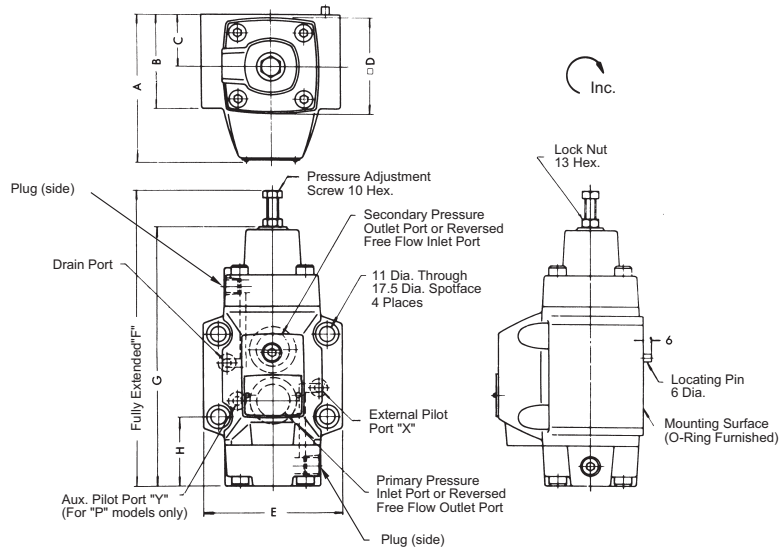
HCG-03, 06

Type 3: Sequence and Check Valve
(External Pilot, External Drain)

Mounting Surface:

HCG-03: ISO 5781-AG-06-2-A-87

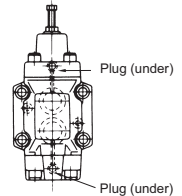
HCG-06: ISO 5781-AH-08-2-A-87



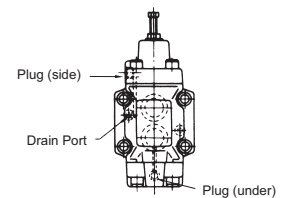
Model No	A	B	C	D	E	F	G	H
HCG-03	90	59	35	60	89	191	163	49.6
HCG-06	108	69	40	73	102	221	188	51

Note: For dimensions of mounting surface, please refer to HGM-03 & 06 type sub-plate (page 66).

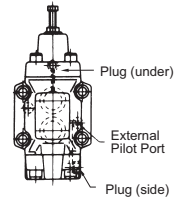
Type 1: Counterbalance Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence and Check Valve
(Internal Pilot, External Drain)



Type 4: Counterbalance Valve
(External Pilot, Internal Drain)

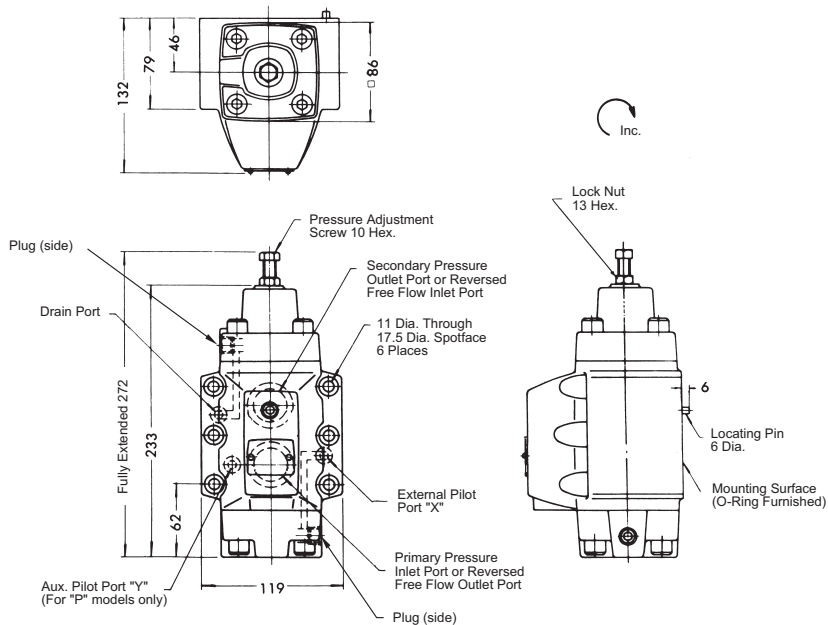


HCG-10

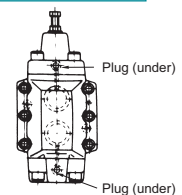
Type 3: Sequence and Check Valve
(External Pilot, External Drain)

Mounting Surface: ISO 5781-AJ-10-2-A-87

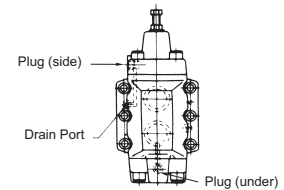
Note: For dimensions of mounting surface,
please refer to HGM-10 type sub-plate (page 66).



Type 1: Counterbalance Valve
(Internal Pilot, Internal Drain)



Type 2: Sequence and Check Valve
(Internal Pilot, External Drain)



Type 4: Counterbalance Valve
(External Pilot, Internal Drain)

