






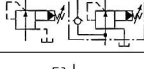




# C

## PRESSURE CONTROLS

Valve Type	KS Graphic Symbols	Max.oper ating Pressure MPa {kgf/cm <sup>2</sup> }	Max. Flow L/min														Page
			1	2	3	5	10	20	30	50	100	200	300	500	1000	2000	
Remote Cont. Relief Valves		25 {255}	01														C-3
Direct Type Relief Valves		21 {214}	02														C-5
Pilot Operated Relief Valves		25 {255}					03					06	10				C-7
Low Noise Type Pilot Relief Valves		25 {255}					03					06					C-11
Sol. Cont. Relief Valves		25 {255}					03					06	10				C-14
H Type Press. Cont. Valves		21 {214}	03									06	10				C-23
HC Type Press. Cont. Valves		21 {214}	03									06	10				C-29
Press. Reducing & Check Valves		21 {214}	03									06					C-34
Press. Reducing & Relieving Valves		03:14 {143}	03														C-40
Unloading Relief Valves		21 {214}	06														C-43

## Hydraulic Fluids

### 1. Fluid Types

Any type of hydraulic fluid, listed in the table below can be used.

Petroleum based oil	Use fluids equivalent to ISO VG32 or VG46.
Synthetic fluids	Use phosphate ester or polyol ester fluid. When phosphate ester fluid is to be used, prefix "F-" to the model number because a special seal (fluororubber) will be used.
Water containig fluids	Use water - glycol fluid.

Note: For use with hydraulic fluids other than those listed above, please consult your SEWON represestatives in acvance.

### 2. Recommended Fluid Viscosity and Temperature

Use under conditions where the viscosity and temperature of the hydraulic fluid remain in the ranges indicated in the following table.

Name		Viscosity	Temperature
Remote Control Relief Valves	H Type Presure Control Valves	15~400mm <sup>2</sup> /s{cSt}	-15~+70℃
Direct Type Relief Valves	HC Type Pressure Control Valves		
Pilot Operated Relief Valves	Pressure Reducing Valves		
Low Noise Type Pilot Operated Relief	Valves Pressure Reducing and Check Valves		
Solenoid Controlled Relief Valves	Pressure Reducing and Relieving Valves		

\* If the valve is provided with a vent ristrictor (ex.: A-BSG-03), the viscosity range should be 15-200cSt (80-900 SSU).

### 3. Control of Contamination

Due caution must be paid to maintaining control over contamination of the hydraulic fluids which may otherwise lead to breakdowns and shorten the life of the valve. Please maintain the degree of contamination within NAS 1638-Grade 11. Use 25μm or finer line filter.

### 4. Drain Piping

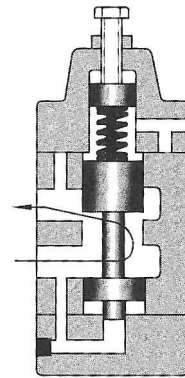
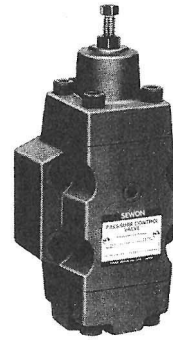
Drain port must be connected directly to the tank in condition back pressure is lower than the atmospheric pressure. That line pressure can be increased infinitely can be caused a serious accident.

## H Type Pressure Control Valves

These valves are hydraulically damped, direct operated, pressure control valves which can be actuated by internal or external pilot pressure. There are various types of valve including sequence, unloading and low pressure relief valves, all of which are operated by a pressure rise in the circuit, sensed either internally or remotely.

### Ratings

Model Numbers		Max. Operating Pressure MPa {kgf/cm <sup>2</sup> }	Max. Flow l/min	Mass kg	
Threaded Connection	Sub-Plate Mounting			HT type	HG type
HT-03-※※※-22	HG-03-※※※-22	21 {214}	50	3.7	4.0
HT-06-※※※-22	HG-06-※※※-22		125	6.2	6.1
HT-10-※※※-22	HG-10-※※※-22		250	12.0	11.0



**C**  
H Type Pressure Control Valves

### Model Number Designation

H	T	-03	-C	3	-P	-22
Series Number	Type of Mounting	Valve Size	Pres. Adj. Range MPa {kgf/cm <sup>2</sup> }	Valve Type* <sup>1</sup>	With Auxiliary* <sup>2</sup> Pilot Pressure	Design Number
H : H Type Pressure Control Valves	T : Threaded Connection	03	L : 0.25~0.45 {2.6~4.6} M : 0.45~0.9 {4.6~9.2} N : 0.9~1.8 {9.2~18.4} A : 1.8~3.5 {18.4~35.7} B : 3.5~7.0 {35.7~71.4} C : 7.0~14 {71.4~143}	1	P : With Auxiliary Pilot Pressure	22
		06		2		22
		10		3		22
	G : Sub-Plate Mounting	03		4		22
		06				22
		10				22

★1. For the details of valve types, see the following page.

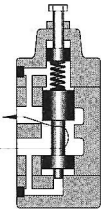
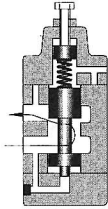
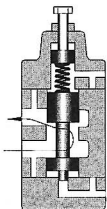
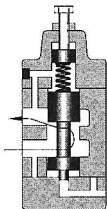

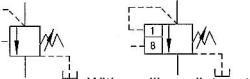
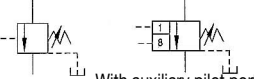
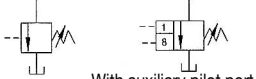
★2. Models with auxiliary Pilots are used where valves must be operated under a lower external pilot pressure than the adjusted pressure (types N,A and B: about 1/8 of adjusted pressure; type C: about 1/16). This does not apply to pressure adjustment ranges L and M and valve type 1.

Refer to the below table.

#### Pres. Adj. Range & "P" Aux. Pilot Table

Valve Type Pres. Adj. Range	Type 1		Type 2		Type 3		Type 4	
	Aux.	Normal	Aux.	Normal	Aux.	Normal	Aux.	Normal
L	○	-	○	-	○	-	○	-
M	○	-	○	-	○	-	○	-
N	-		○	○	○	○	○	○
A	-		○	○	○	○	○	○
B	-		○	○	○	○	○	○
C	-		○	○	○	○	○	○

## Valve Types

Valve Type	Type1: Low Pres. Relief Valve	Type2: Sequence Valve	Type3: Sequence Valve	Type4: Unloading Valve
Pilot-Drain Type	Internal Pilot-Internal Drain	Internal Pilot-External Drain	External Pilot-External Drain	External Pilot-Internal Drain
Operations				
KS Graphic Symbols				
Descriptions	Can be used as low-pressure relief valve, but be careful to occurrence of surge pressure.	Used to control the operational sequence of 2 or more actuators. If primary pressure setting, effective fluid is delivered to the secondary side.	Used for the same purposes as for the type 2. Operated by external pilot pressure irrespective of primary pressure.	Used as unloading valve. If external pilot pressure exceeds the pressure setting, the pump is turned no-load by releasing all fluid to the tank.

## Introductions

- To adjust the pressure, loosen the lock nut and turn the pressure adjustment screw slowly clockwise for higher pressures or anti-clockwise for lower pressure. After adjustments, do not forget to tighten the lock nut.
- Connect the secondary side pressure ports of types 1 and 4(internal drain) and the drain ports of types 2 and 3(external drain) directly to the tanks with a back pressure close to the atmospheric pressure.

## Attachment

- Mounting Bolts

Valve Model Numbers	Socket Head Cap Screw
HG-03	M10 × 50L.....4pcs
HG-06	M10 × 50L.....4pcs
HG-10	M10 × 50L.....6pcs

## Sub-Plate

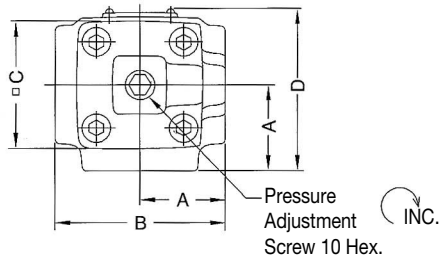
Model Numbers	Sub-Plate Model Numbers	Piping Size	Mass kg
HG-03-※※-22	HGM-03-20	Rc 3/8	1.6
	HGM-03X-20	Rc 1/2	
HG-03-※※-P-22	HGM-03-P-20	Rc 3/8	2.0
	HGM-03X-P-20	Rc 1/2	
HG-06-※※-22	HGM-06-20	Rc 3/4	2.4
	HGM-06X-20	Rc 1	3.0
HG-06-※※-P-22	HGM-06-P-20	Rc 3/4	2.4
	HGM-06X-P-20	Rc 1	3.0
HG-10-※※-22	HGM-10-20	Rc 1 1/4	4.8
	HGM-10X-20	Rc 1 1/2	5.7
HG-10-※※-P-22	HGM-10-P-20	Rc 1 1/4	4.8
	HGM-10X-P-20	Rc 1 1/2	5.7

- Sub-Plates are available, Specify sub-plate model from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

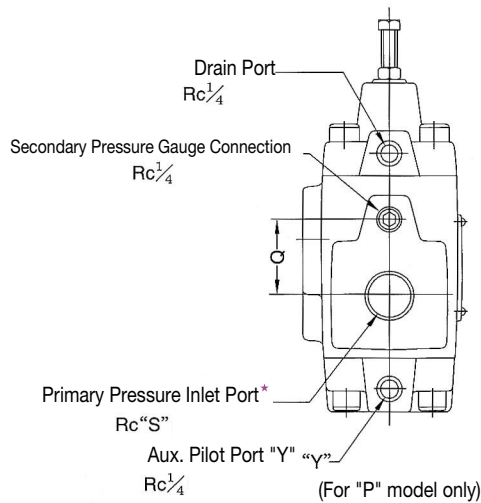
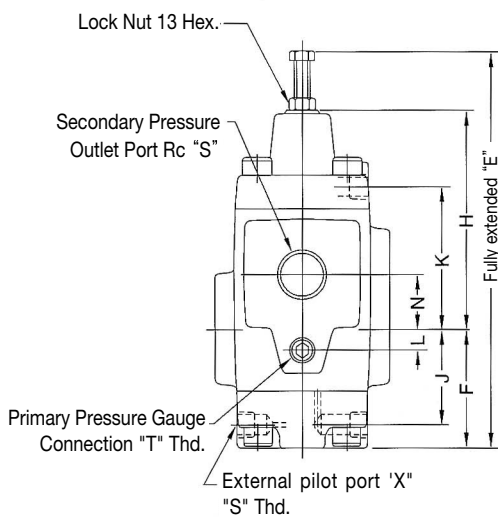
HT-03,06,10

## Type 3: Sequence Valve

(External Pilot, External Drain)



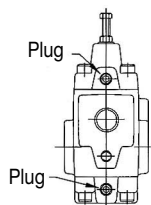
★ There are two threaded connection pressure ports. They can be connected each other in-line: one as inlet and the other as outlet or the valve can be used by plugging one of the pressure ports.



Model Numbers	A	B	C	D	E	F	H	J	K	L	N	Q	S
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

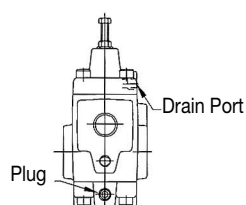
### Type1: Low Pressure Relief Valve

( Internal Pilot, Internal Drain)



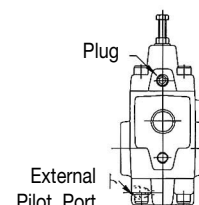
### Type2: Sequence Valve

( Internal Pilot, External Drain)



### Type3: Unloading Valve

(External Pilot, Internal Drain)



## HG-03,06

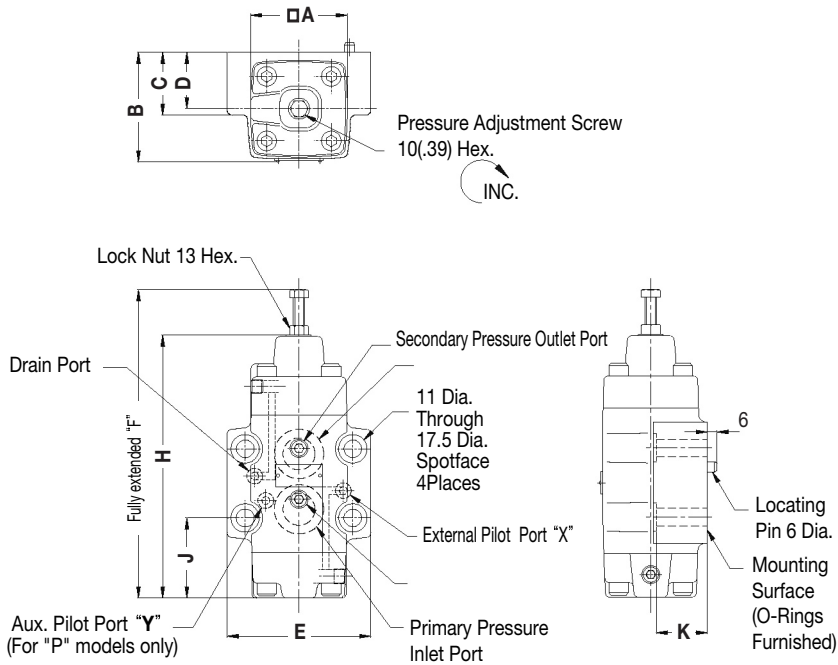
### Type3: Sequence Valve

(External Pilot, External Drain)

### Mounting Surface

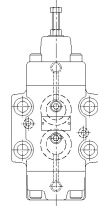
HG-03:ISO 5781-AG-06-2-A

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

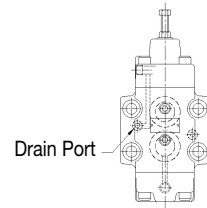


Model Numbers	A	B	C	D	E	F	H	J	K
HG-03	60	67	35	39	89	191	163	49.6	38
HG-06	73	79	40	39	102	221	188	51	38

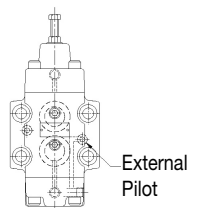
### Type1: Low Pressure Relief Valve (Internal Pilot, Internal Drain)



### Type2: Sequence Valve (Internal Pilot, External Drain)



### Type4: Unloading Valve (External Pilot, Internal Drain)

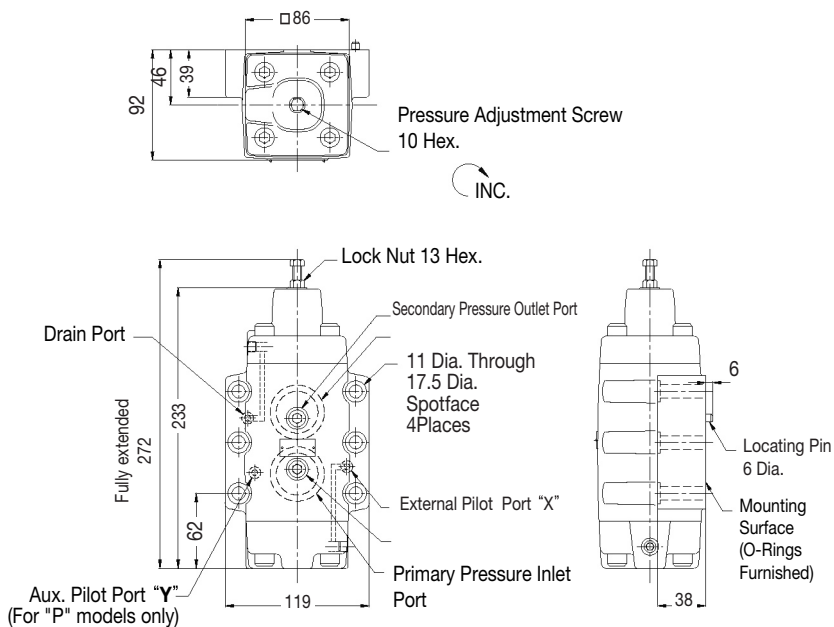


## HG-10

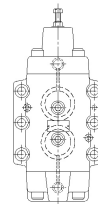
### Type3: Sequence Valve

(External Pilot, External Drain)

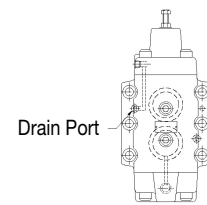
### Mounting Surface : ISO 5781-AJ-10-2-A



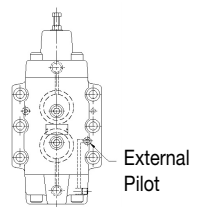
### Type1: Low Pressure Relief Valve (Internal Pilot, Internal Drain)



### Type2: Sequence Valve (Internal Pilot, External Drain)



### Type4: Unloading Valve (External Pilot, Internal Drain)



2-Port Thread size  
(Refer to the right table)

2-Rc1/4

8.8 Dia. Through 14 Dia. Spotface  
4 Places

7 Dia. 10 Deep  
For Locating Pin

4 Dia. Through 2 Places

4-M10 20 Dia. Deep

13 Dia. 2 Places

Rc1/4  
4 Dia. Through

Auxiliary Pilot Pressure  
Port Models Only

Sub-Plate  
Model Num

HGM-03-2

HGM-03-X

HGM-03-P

HGM-03-X

Sub-Plate Model Numbers	Thread Size Rc	A	B	C	D	E	F	H
HGM-03-20	$\frac{3}{8}$	61	21	40.9	-	35	9.6	32
HGM-03X-20	$\frac{1}{2}$							
HGM-03-P-20	$\frac{3}{8}$	69.5	12.5	53.5	28.5	35	11.5	36
HGM-03X-P-20	$\frac{1}{2}$	67.5	14.5			41		

[illegible]

Sub-Plate Model Numbers	Thread Size Rc	A	B	C	D	E	F	H	J	K
HGM-06-20	$\frac{3}{4}$	124	10	77	27	61.7	-	73	6.4	36
HGM-06X-20	1	136	16	82.3	22	61.7	-	75	6.4	45
HGM-06-P-20	$\frac{3}{4}$	124	10	77	27	64	39	73	3	36
HGM-06X-P-20	1	136	16	82.3	22	64	39	75	3	45

2-Port Thread size  
(Refer to the right table)

Rc $\frac{1}{4}$  2Places

11 Dia. Through 17.5 Dia.  
Spotface 4Places

7 Dia. 10 Deep  
For Locating Pin

140  
120  
116  
10  
H  
A  
126  
C  
E  
D  
16.7  
24.6  
42.1  
59.5  
62.7  
67.5  
84.1  
16.5  
117  
5 Dia. 2Places  
6-M10 20 Dia. Deep 6 Places  
28 Dia. 2 Places  
9.6  
48.4  
92.9  
96.8  
4  
15  
5 Dia. Deep  
Rc $\frac{1}{4}$

Sub-Plat  
Model N

HGM-10

HGM-10

HGM-10

HGM-10

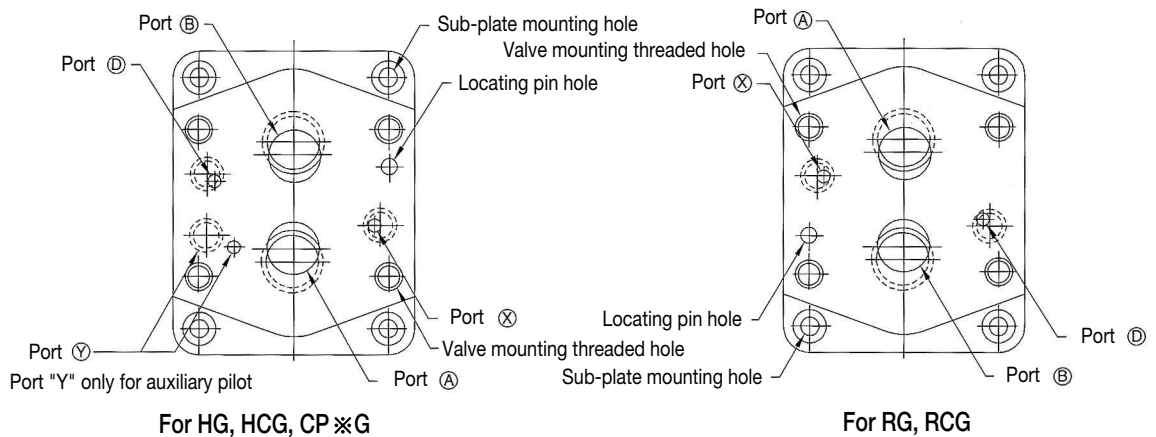
Auxiliary Pilot  
Pressure Port  
Models Only

Sub-Plate Model Numbers	Thread Size Rc	A	B	C	D	E	F	H
HGM-10-20	1¼	150	12	96	30	-	45	13.6
HGM-10X-20	1½	177	25.5	104	22	-	50	13.6
HGM-10-P-20	1¼	150	12	96	30	43	45	9.6
HGM-10X-P-20	1½	177	25.5	104	22	43	50	9.6



## How use HGM Sub-plates in other control valves

To use HGM sub-plates in other control valves , follow the descriptions in the table below.



### How to use ports

Valve Model Numbers	Name of Valve	Name of Ports				
		Port "A"	Port "B"	Port "D"	Port "X"	Port "Y"
03 HG - 06 10	H Type Pressure Control Valves	Primary Pressure port	Secondary pressure port	Drain port	External pilot port	Auxiliary pilot port (Model Number "P")
03 HCG - 06 10	HC Type Pressure Control Valves	Primary Pressure port or free flow outlet port	Secondary pressure port or free flow inlet port	Drain port	External pilot port	Auxiliary pilot port (Model Number "P")
03 R G - 06 10	Pressure Reducing Valves	Primary Pressure port	Secondary pressure port	Not used	Drain port	_____
03 RCG - 06 10	Pressure Reducing and Check Valves	Primary Pressure port or free flow outlet port	Secondary pressure port or free flow inlet port	Not used	Drain port	_____
03 CP※G - 06 10	Pilot Controlled Check Valves	Free flow inlet or reversed controlled flow outlet port	Free flow outlet or reversed controlled flow inlet port	Drain port*	Pilot port	_____

\* If this sub-plate is used in the internal drain type of a pilot operated check valve, be sure to drain port "D" of the sub-plate.

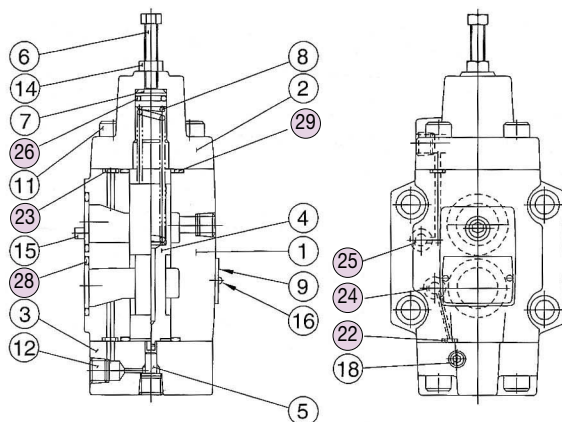
### CAUTION

When making replacement of seals, please do it carefully after reading through the relevant instructions in the Operator's Manual.

### List of Seals

HT-03,06,10

HG-03,06,10



Item	Name of Parts	Part Numbers			Quantity	
		HT HG-03	HT HG-06	HT HG-10	HT-※	HG-※
22	O-Ring	JIS B 2401 -1B-P4	JIS B 2401 -1B-P4	JIS B 2401 -1B-P4	-	3*
23	O-Ring	JIS B 2401 -1B-P6	JIS B 2401 -1B-P6	JIS B 2401 -1B-P6	4	4
24	O-Ring	JIS B 2401 -1B-P9	JIS B 2401 -1B-P9	JIS B 2401 -1B-P9	-	1*
25	O-Ring	JIS B 2401 -1B-P9	JIS B 2401 -1B-P9	JIS B 2401 -1B-P9	-	2
26	O-Ring	JIS B 2401 -1A-P11	JIS B 2401 -1A-P15	JIS B 2401 -1A-P20	1	1
28	O-Ring	JIS B 2401 -1B-P18	JIS B 2401 -1B-P28	JIS B 2401 -1B-P32	-	2
29	O-Ring	JIS B 2401 -1A-P22	JIS B 2401 -1B-P28	JIS B 2401 -1B-P36	2	2

\* Used only for HG type auxiliary pilot(P).



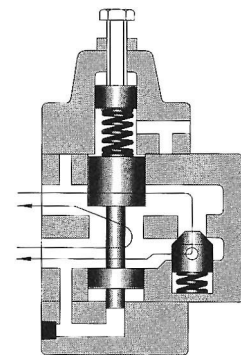
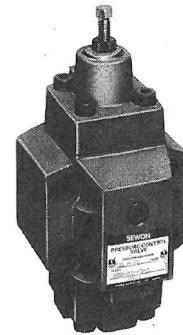
## HC Type Pressure Control Valves

These valves are hydraulically damped, direct operated, pressure control valves which can be actuated by internal or external pilot pressure. They are available with integral check valves for use when free reverse flow from the secondary port to the primary port is desired. There are various types of valve including sequence, counterbalance valves, all of which are operated by a pressure rise in the circuit, sensed either internally or remotely.

### Ratings

Model Numbers		Max. Operating Pres. MPa {kgf/cm <sup>2</sup> }	Max. Flow L/min	Mass kg	
Threaded connection	Sub-Plate Mounting			HCT type	HCG type
HCT-03-※※※-22	HCG-03-※※※-22	21 {214}	50	4.1	4.8
HCT-06-※※※-22	HCG-06-※※※-22		125	7.1	7.4
HCT-10-※※※-22	HCG-10-※※※-22		250	13.8	13.8

● For check valve pressure drops, see free flow pressure drop characteristics.



C



HC Type Pressure Control Valves

### Model Number Designation

HC	T	-03	-C	3	-P	-22
Series Number	Type of Mounting	Valve Size	Prel. Adj. Range MPa {kgf/cm <sup>2</sup> }	Valve Type *1	With Auxiliary *2 Pilot Pressure	Design Number
HC : HC Type Pressure Control Valves	T : Threaded Connection	03	L : 0.25~0.45 {2.6~4.6} M : 0.45~0.9 {4.6~9.2} N : 0.9~1.8 {9.2~18.4} A : 1.8~3.5 {18.4~35.7} B : 3.5~7.0 {35.7~71.4} C : 7.0~14 {71.4~143}	1  2  3  4	P : With Auxiliary Pilot Pressure	22
		06				22
		10				22
	G : Sub-Plate Mounting	03				22
		06				22
		10				22

★1. For details of valve types, see the following page.

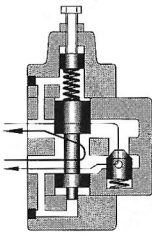
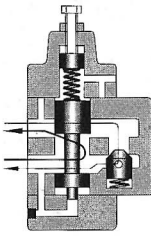
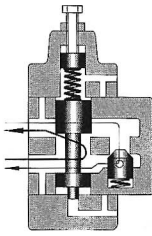
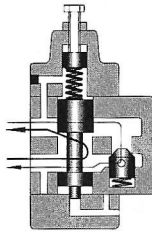
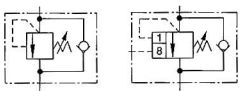
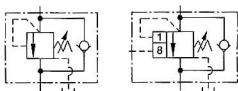
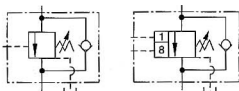
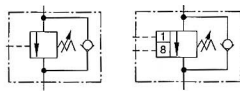
★2. Models with auxiliary pilots are used where valves must be operated under a lower external pilot pressure than the adjusted pressure (types N,A and B: above 1/8 of adjusted pressure; type C: above 1/16). This does not apply to pressure adjustment ranges L and M and valve type 1.

Refer to the table below.

### Pres. Adj. Range & "P" Aux. Pilot Table

Valve Type Pres. Adj. Range	Type 1		Type 2		Type 3		Type 3	
	PX	PO	PX	PO	PX	PO	PX	PO
L	○	-	○	-	○	-	○	-
M	○	-	○	-	○	-	○	-
N	○	○	○	○	○	○	○	○
A	○	○	○	○	○	○	○	○
B	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○

## Valve Types

Valve Type	Type1: Counterbalance Valve	Type2: Sequence and check Valve	Type3: Sequence and check Valve	Type4: Counterbalance Valve
Pilot-Drain Type	Internal Pilot-Internal Drain	Internal Pilot-External Drain	External Pilot-External Drain	External Pilot-Internal Drain
Operations				
KS Graphic Symbols	 With auxiliary pilot port	 With auxiliary pilot port	 With auxiliary pilot port	 With auxiliary pilot port
Descriptions	Used to prevent gravitational falls by generating a pressure on the actuator return side. If primary pressure exceeds the pressure setting, fluid is released to keep the pressure constant.	Used to control the operating sequence of 2 or more actuators. If primary pressure exceeds the pressure setting, effective fluid is delivered to the secondary side. Reversed flow is free by check valve.	Used for the same purposes as for the type 2. Operated by external pilot pressure irrespective of primary pressure. Reversed flow is free by check valve.	Used for the same purposes as for the type 1. Operated by external pilot pressure irrespective of primary pressure. Reversed flow is free by check valve.

## Introductions

- To adjust the pressure, loosen the lock nut and turn the pressure adjustment screw slowly clockwise for higher pressures or anti-clockwise for lower pressures.  
After adjustments, do not forget to tighten the lock nut.
- Connect the secondary side pressure ports of types 1 and 4(internal drain) and the drain ports of types 2 and 3(external drain) directly to the tanks with a back pressure close to the atmospheric pressure.

## Attachment

### Mounting Bolts

Valve Model Numbers	Socket Head Cap Screw
HCG-03	M10 × 70L .....4pcs
HCG-06	M10 × 80L .....4pcs
HCG-10	M10 × 90L .....6pcs

## Sub-Plate

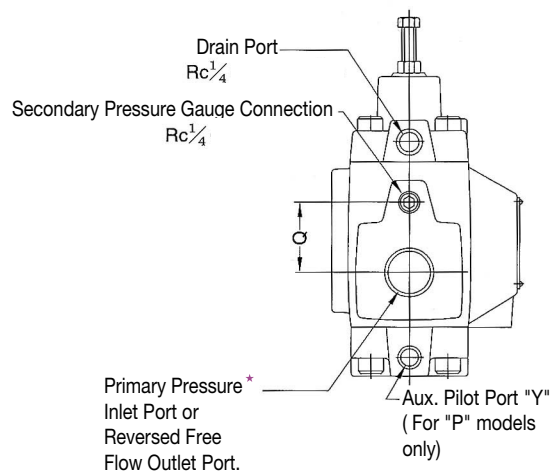
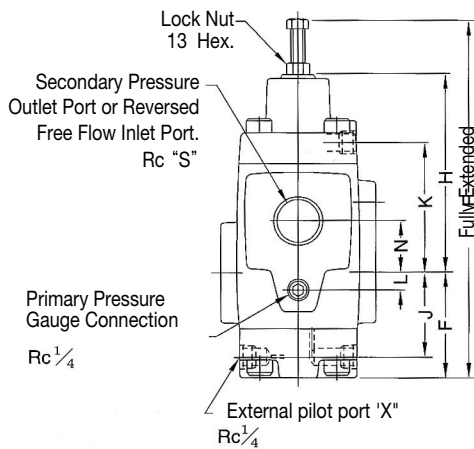
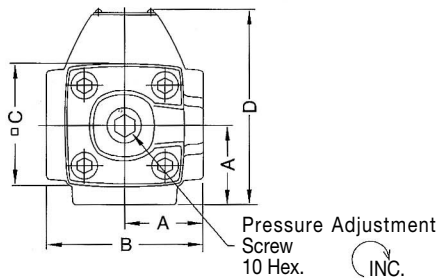
Model Numbers	Sub-Plate Model Numbers	Piping Size	Mass kg
HCG-03- ※ ※ -22	HGM-03-20	Rc 3/8	1.6
	HGM-03X-20	Rc 1/2	
HCG-03- ※ ※ -P-22	HGM-03-P-20	Rc 3/8	2.0
	HGM-03X-P-20	Rc 1/2	
HCG-06- ※ ※ -22	HGM-06-20	Rc 3/4	2.4
	HGM-06X-20	Rc 1	3.0
HCG-06- ※ ※ -P-22	HGM-06-P-20	Rc 3/4	2.4
	HGM-06X-P-20	Rc 1	3.0
HCG-10- ※ ※ -22	HGM-10-20	Rc 1 1/4	4.8
	HGM-10X-20	Rc 1 1/2	5.7
HCG-10- ※ ※ -P-22	HGM-10-P-20	Rc 1 1/4	4.8
	HGM-10X-P-20	Rc 1 1/2	5.7

- Sub-Plates are available, Specify sub-plate model from the table above.  
When sub-plates are not used, the mounting surface should have a good machined finish.
- Sub-plates are those for H type pressure control valves. For dimensions, see page C-29.

## HCT-03,06,10

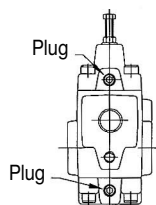
### Type 3: Sequence and Check Valve (External Pilot, External Drain)

★ There are two threaded connection pressure ports. They can be connected each other in-line: one as an inlet and the other as outlet or the valve can be used by plugging one of the pressure ports.

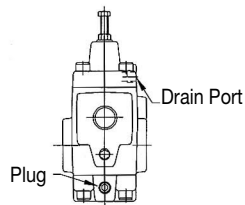


Model Numbers	A	B	C	D	E	F	H	J	K	L	N	Q	S
HCT-03	41	82	60	96	191	57	106	43	70	0	28	28	3/8
HCT-06	48	96	73	116	221	64.5	123.5	50.5	80.5	9	33	42	3/4
HCT-10	66	132	86	152	272	84	149	66	98	12	40	52	1 1/4

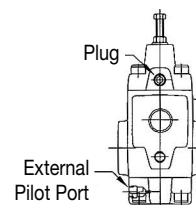
#### Type1: Counterbalance Valve (Internal Pilot, Internal Drain)



#### Type2: Sequence and Check Valve (Internal Pilot, External Drain)



#### Type4: Counterbalance Valve (External Pilot, Internal Drain)



C

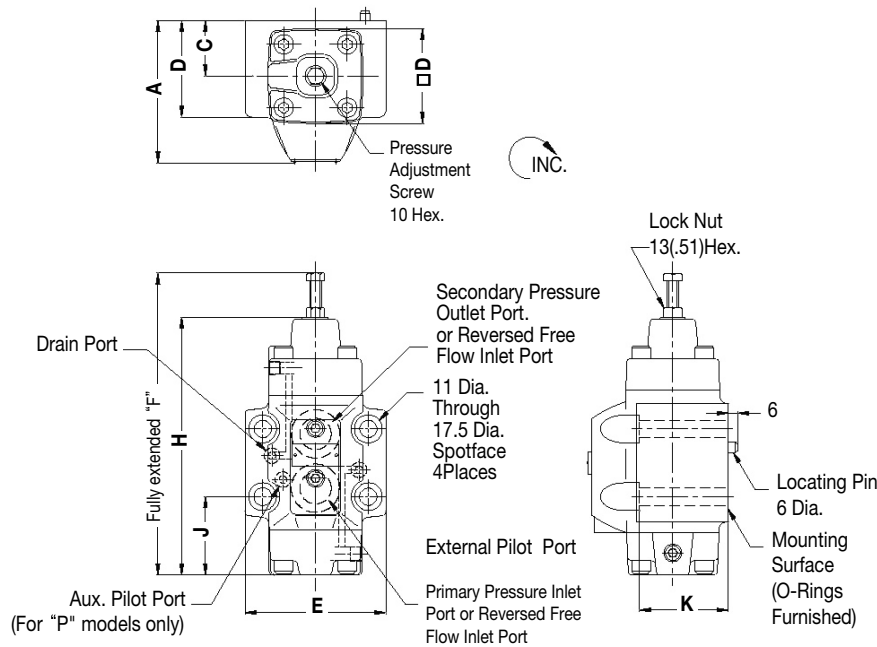


HC Type Pressure Control Valves

## HCG-03, 06

**Type3: Sequence and Check Valve**  
(External Pilot, External Drain)

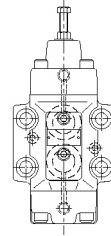
**Mounting Surface**  
HCG-03:ISO 5781-AG-06-2-A  
HCG-06:ISO 5781-AH-08-2-A



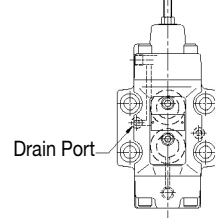
Model Numbers	A	B	C	D	E	F	H	J	K
HCG-03	90	59	35	60	89	191	163	49.6	58
HCG-06	108	69	40	73	102	221	188	51	68

Note: For dimensions of the valve mounting surface see the dimensional drawing(C-27) of the sub-place used together.

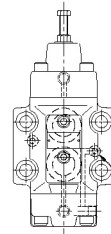
**Type1: Counterbalance Valve**  
(Internal Pilot, Internal Drain)



**Type2: Sequence and Check Valve**  
(Internal Pilot, External Drain)



**Type4: Counterbalance Valve**  
(External Pilot, Internal Drain)

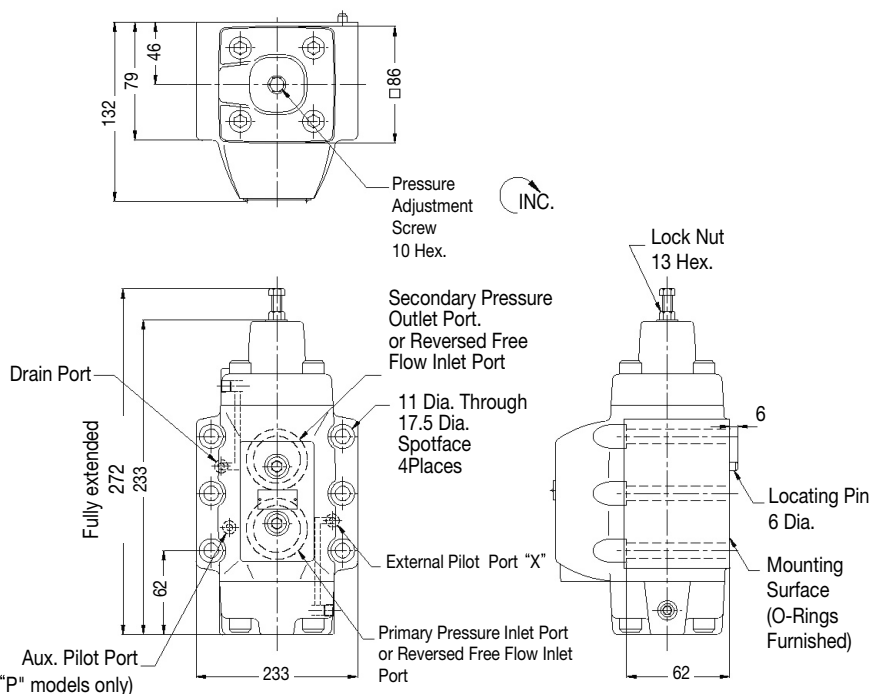


External Pilot Port

## HCG-10

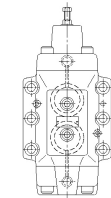
**Type3: Sequence and Check Valve**  
(External Pilot, External Drain)

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

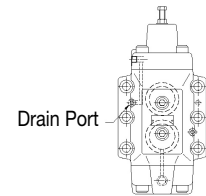


Note: For dimensions of the valve mounting surface see the dimensional drawing(C-27) of the sub-place used together.

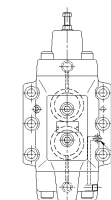
**Type1: Counterbalance Valve**  
(Internal Pilot, Internal Drain)



**Type2: Sequence and Check Valve**  
(Internal Pilot, External Drain)



**Type4: Counterbalance Valve**  
(External Pilot, Internal Drain)

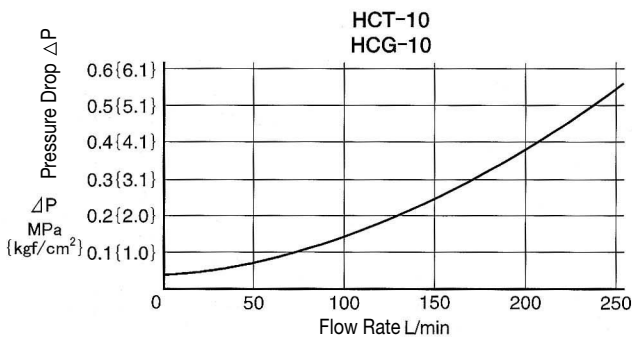
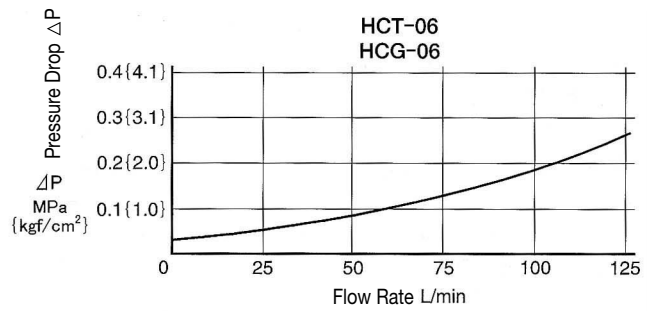
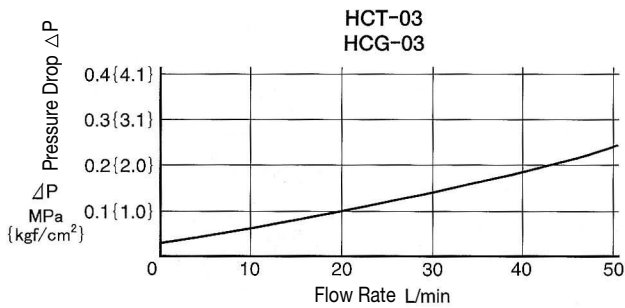


External Pilot Port

# PRESSURE CONTROLS

## Pressure Drop for Free Flow

Hydraulic fluid : Viscosity 35mm<sup>2</sup>/s{cSt}  
Specific Gravity 0.850



● For any other viscosity, multiply the factors in the table below.

Viscosity	mm <sup>2</sup> /s{cSt}	15	20	30	40	50	60	70	80	90	100
SSU		77	98	141	186	232	278	324	371	417	464
Factor 0.81		0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30	

● For any other specific gravity(G), the pressure drop ( $\Delta P'$ ) may be obtained from the formula below.

$$\Delta P' = \Delta P (G' / 0.850)$$

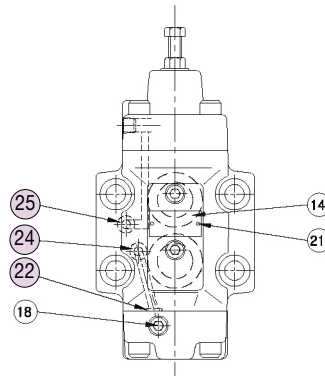
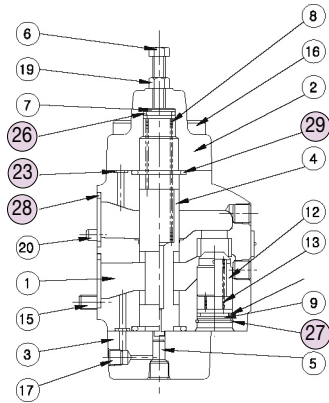


### CAUTION

When making replacement of seals, please do it carefully after reading through the relevant instructions in the Operator's Manual.

## List of Seals

### HCG-03,06



Item	Name of Parts	Part Numbers			Quantity	
		HCT HCG-03	HCT HCG-06	HCT HCG-10	HCT-※	HCG-※
22	O-Ring	JIS B 2401-1B-P 4	JIS B 2401-1B-P 4	JIS B 2401-1B-P 4	-	3*
23	O-Ring	JIS B 2401-1B-P 6	JIS B 2401-1B-P 6	JIS B 2401-1B-P 6	4	4
24	O-Ring	JIS B 2401-1B-P 9	JIS B 2401-1B-P 9	JIS B 2401-1B-P 9	-	1*
25	O-Ring	JIS B 2401-1B-P 9	JIS B 2401-1B-P 9	JIS B 2401-1B-P 9	-	2
26	O-Ring	JIS B 2401-1A-P11	JIS B 2401-1A-P15	JIS B 2401-1A-P20	1	1
27	O-Ring	JIS B 2401-1B-P12	JIS B 2401-1B-P18	JIS B 2401-1B-P22A	1	1
28	O-Ring	JIS B 2401-1B-P18	JIS B 2401-1B-P28	JIS B 2401-1B-P32	-	2
29	O-Ring	JIS B 2401-1B-P22	JIS B 2401-1B-P28	JIS B 2401-1B-P36	2	2

★ Used only for HCG type auxiliary pilot (P).

C



HC Type Pressure Control Valves