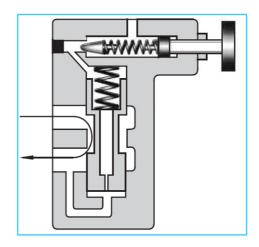
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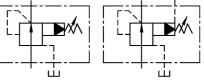
Pressure Reducing Valves

Pressure reducing valves are used to set the pressure of a hydraulic circuit below that of the main circuit. Operation under remote control is also possible by using the remote control port.





Graphic Symbols



Specifications

Remote control connection

Valve	Model 1	Numbers	Max.	Max. Fl	ow ^{*1}	Drain ^{*2}	Mass (Approx.)Kg.	
Name	Threaded Connection	Sub-plate Mounting	Oper. Pressure Kgf/cm ²	Setting Pressure Kgf/cm ²	Max. Flow L/min.	Flow L/min.	Threaded Connection	Sub-plate Mounting
	RT-03-※-2280	RG-03-※-2280	210	7 - 10	40	0.8 - 1.0	4.3	4.5
				10 - 205	50	0.8 - 1.0	4.5	
	RT-06-※-2280	RG-06-Ж-2280	210	7 - 10	50			6.8
Pressure				10 - 15	100	0.8 - 1.1	6.9	
Reducing				15 - 205	125			
Valve				7 - 10	130			
	RT-10-※-2280	RG-10-Ж-2180	210	10 - 15	180	1.2 - 1.5 12	12.0	11.0
	K1-10- ⁻ -2280			15 - 105	220	1.2 - 1.3	12.0	
				105 - 205	250			

*1 The max. flow rates are those shown at the primary pressure at 210 Kgf/cm².

*2 The drain flow rates are equal to pilot flow rates when differential pressure between primary and secondary pressure is at 205 Kgf/cm².

EIC-C-1004-0

Model Number Designation

F-	R	Т	-03	-В	-22	80
Special Seals	Series Number	Type of Mounting	Valve Size	Pres.Adj. Range Kgf/cm ²	Design Number	Design Standard
F:		T: ^{*1}	03			
Special		Threaded	06		22	
Seals For Phosphate	R: Pressure	Connection	10	B: 7-70		00
Ester Type Fluids	Reducing Valve	G:	03	C: 35-140 H: 70-205	22	80
(Omit if not	Valve	Sub-Plate	06	II. 70-203	22	
required)		Mounting	10		21	

*1 Consult YUKEN for availability.

Attachment

Mounting Bolts

Valve Model Numbers	Socket Head Cap Screw	Qty.	Bolt Kit Model Number
RG-03	M10 x 501 a	4	BKRG-03-2280
RG-06	M10 x 50Lg.	4	BKKG-03-2280
RG-10	M10 x 50Lg.	6	BKRG-10-2180

Sub-plate

Valve Model Number	Sub – Plate Model Numbers	Thread Size	Mass Kg.
RG-03	HGM-03-2080	3/8 BSP.F	1.6
KG-05	HGM-03X-2080	1/2 BSP.F	1.0
RG-06	HGM-06-2080	3/4 BSP.F	2.4
KG-00	HGM-06X-2080	1 BSP.F	3.0
RG-10	HGM-10-2080	1-1/4 BSP.F	4.8
KO-10	HGM-10X-2080	1-1/2 BSP.F	5.7

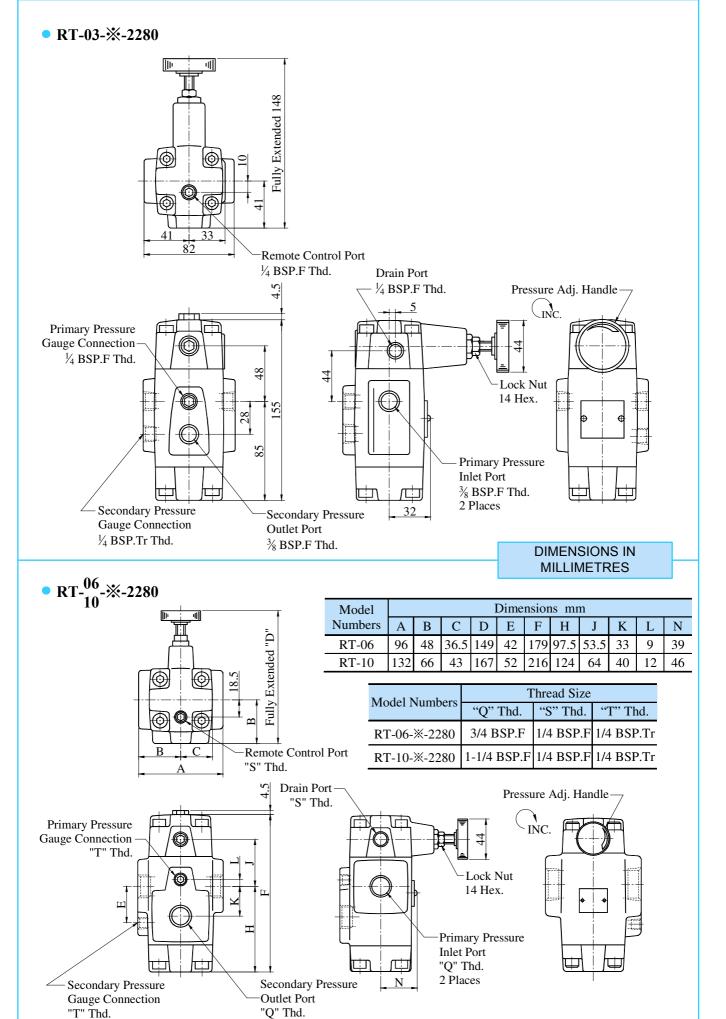
[•] Sub-plates are available. Specify sub-plate model number from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

• The sub-plates are the same as those for HC type pressure control valves. With the reducing and check valve, the sub-plate is used in position 180[°] turned (upside down) from the normal position. When mounting the sub-plate, be sure to bring the valve locating pin to the sub-plate pin hole. For HGM 06/06X/10/10X dimensions, see page 287 & 294 in EIC-C-1003.

Instructions

- To adjust the pressure, loosen the lock nut and turn the pressure adjustment handle slowly clockwise for higher pressures and anti-clockwise for lower pressures. After adjustments, do not forget to tighten the lock nut.
- Connect the drain port directly to the tank in which case the pressure at the drain port should be kept at a low back pressure close to the atmospheric pressure.
- In case of "Threaded Connections", there are two threaded connections type primary pressure ports. They can be connected each other in-line; one as an inlet and the other as an outlet or the valve can be used by plugging one of the pressure ports.

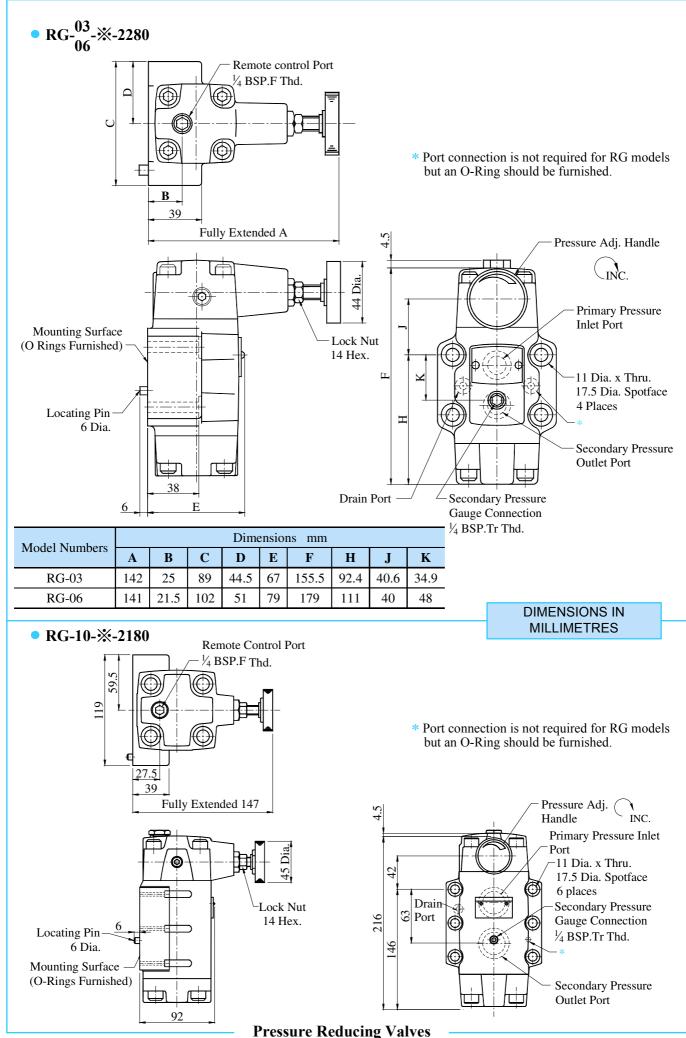


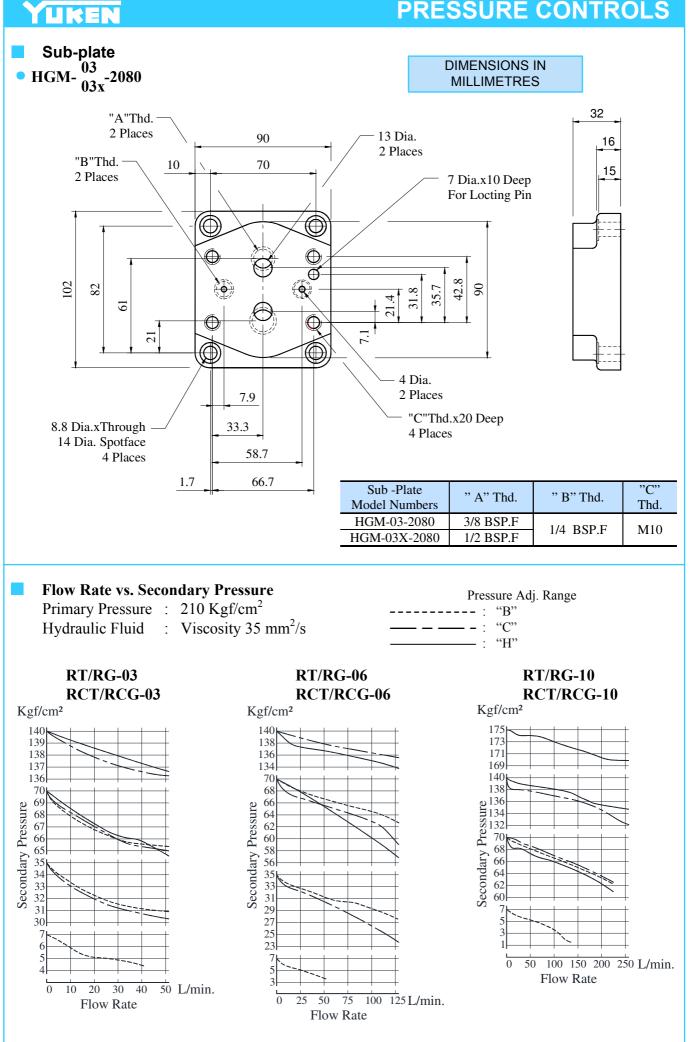


Pressure Reducing Valves

YUKEN

PRESSURE CONTROLS





Pressure Reducing Valves

Spare Parts List

List of Seals

<u>C1</u>			Part Numbers	Quantity			
Sl. No.	Name of Parts	RT RG ⁻⁰³	RT RG ⁻⁰⁶	RT RG ⁻¹⁰	RT-Ж	RG-Ж	RG-10
1	O - Ring	SO-NB-P6	SO-NB-P6	SO-NB-P6	4	4	3
2	O - Ring	SO-NA-P9	SO-NA-P9	SO-NA-P9	1	1	1
3	O - Ring	SO-NB-P9	SO-NB-P9	SO-NB-P9	-	2	1
4	O - Ring	SO-NB-P18	SO-NB-P28	SO-NB-P32	-	2	2
5	O - Ring	SO-NB-P22	SO-NB-P28	SO-NB-P36	2	2	2
6	Bonded Seal	SG-FB-1/4	SG-FB-1/4	SG-FB-1/4	1	1	1

Note: When ordering the seals, please specify the seal kit number from the table below.

List of Seal Kits

Valve Model Numbers	Seal Kit Numbers
RT-03-※-2280	KS-RT-03-22
RT-06-※-2280	KS-RT-06-22
RT-10-※-2280	KS-RT-10-22
RG-03-※-2280	KS-RG-03-22
RG-06-※-2280	KS-RG-06-22
RG-10-※-2180	KS-RG-10-21

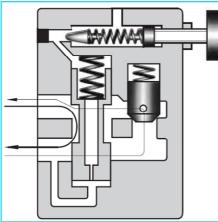
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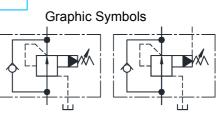
PRESSURE CONTROLS

Pressure Reducing and Check Valves

Pressure reducing and check valves are used to set the pressure of a hydraulic circuit below that of the main circuit. They have check valves, which allow a free flow from the secondary side to the primary. Operating under remote control is also possible by using the remote control port.







Remote Control Connection

Specifications

	Model N	Numbers	Max.	Max. fl	ow ^{*1}	*2	Mass Kg.	
Valve Name	Threaded Connection	Sub-plate Mounting	Operating Pressure Kgf/cm ²	Set Pressure Kgf/cm ²	Max. Flow L/min.	Drain Flow ² L/min.	Threaded Connection	Sub-plate Mounting
Pressure	RCT-03-※-22	RCG-03-%-22	210	7 - 10	40	0.8 - 1.0	4.8	5.4
		RCG-05-%-22		10 - 205	50	0.0 - 1.0 4.0		5.4
	RCT-06-Ж-22	RCG-06-Ж-21	210	7 - 10	50			8.1
Reducing				10 - 15	100	0.8 - 1.1	7.8	
and				15 - 205	125			
Check				7 - 10	130			
Valve		RCG-10-Ж-21	210	10 - 15	180	1.2 - 1.5 13.8	12.0	12.0
	RCT-10-X-22			15 - 105	220		13.8	13.8
				105 - 205	250			

*1 The max. flow rates are those shown at the primary pressure at 210 Kgf/cm².

*2 The drain flow rates are equal to pilot flow rates when differential pressure between primary and secondary pressure is at 205 Kgf/cm².

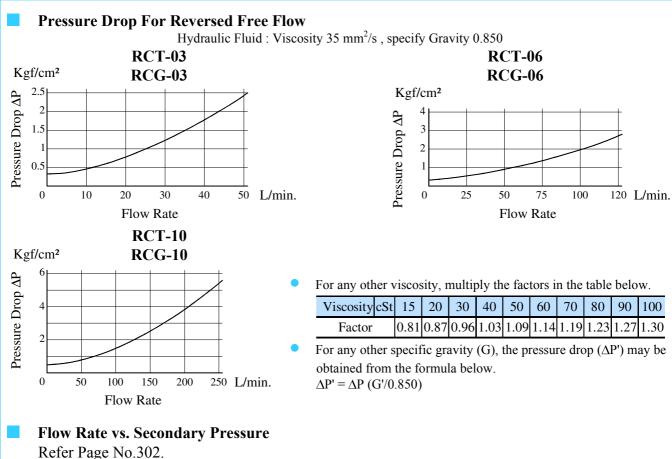
Model Number Designation

F-	R	Т	-03	-B	-22	80	
Special Seals	Series Number	Type of Mounting	Valve Size	Pres. Adj. Range Kgf/cm ²	Design Number	Design Standard	
Ester Type Reducin		T: *1	03		22		
	Pressure Reducing and Check	Threaded Connection	06	D . 7. 70	22		
			10	B: 7 - 70	22	80	
		G: Sub-Plate	03	C: 35 - 140 H: 70 - 205	22	80	
			06	11. 70 - 205	21		
		Mounting	10		21		

*1 Consult YUKEN for availability.

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PRESSURE CONTROLS



Sub-plate

Valve Model Number	Sub-plate Model Numbers	Thread Size	Mass Kg.
RCG-03	HGM-03-2080	3/8 BSP.F	1.6
	HGM-03X-2080	1/2 BSP.F	1.0
RCG-06	HGM-06-2080	3/4 BSP.F	2.4
KCG-00	HGM-06X-2080	1 BSP.F	3.0
RCG-10	HGM-10-2080	1-1/4 BSP.F	4.8
KCG-10	HGM-10X-2080	1-1/2 BSP.F	5.7

Attachment

RCG-10

Mounting			
Valve Model	Socket Head	Qty.	Bolt Kit
Numbers	Cap Screw	Qıy.	Model Number
RCG-03	M10 x 70Lg.	4	BKSRG-06-40
RCG-06	M10 x 80Lg.	4	BKHCG-06-20

6

M10 x 90Lg.

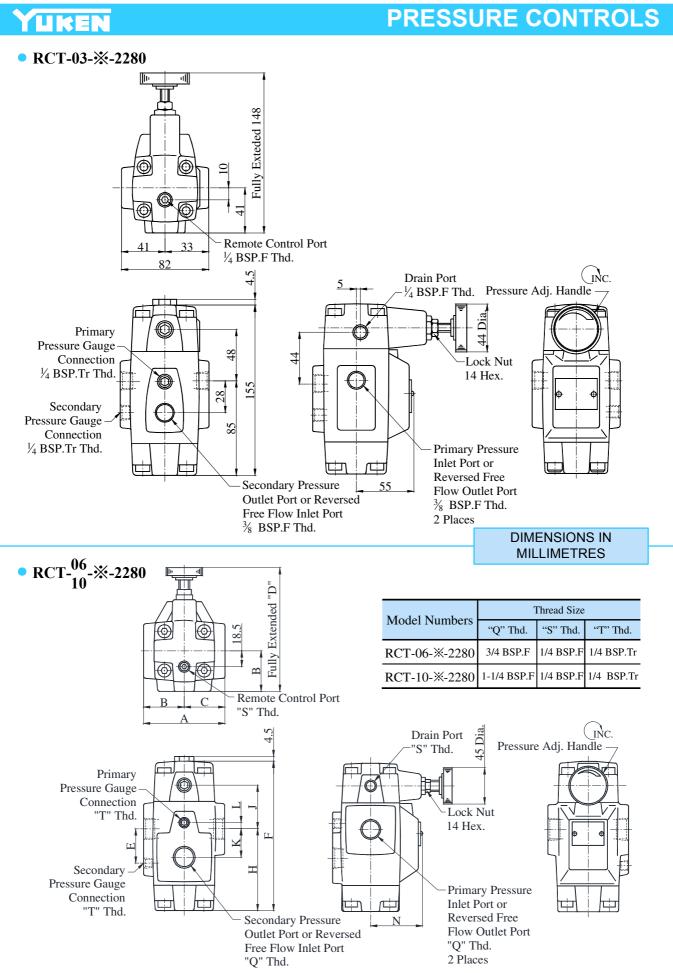
• Sub-plates are available. Specify sub-plate model number from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

• The sub-plates are the same as those for H and HC type pressure control valves. With the reducing and check valve, the sub-plate is used in position 180⁰ turned (upside down) from the normal position. When mounting the sub-plate, be sure to bring the valve locating pin to the sub-plate pin hole. For HGM 03/03X dimensions see page 5 and for HGM 06/06X/10/10X dimensions, see page 287 & 294 in EIC-C-1003.

Instructions

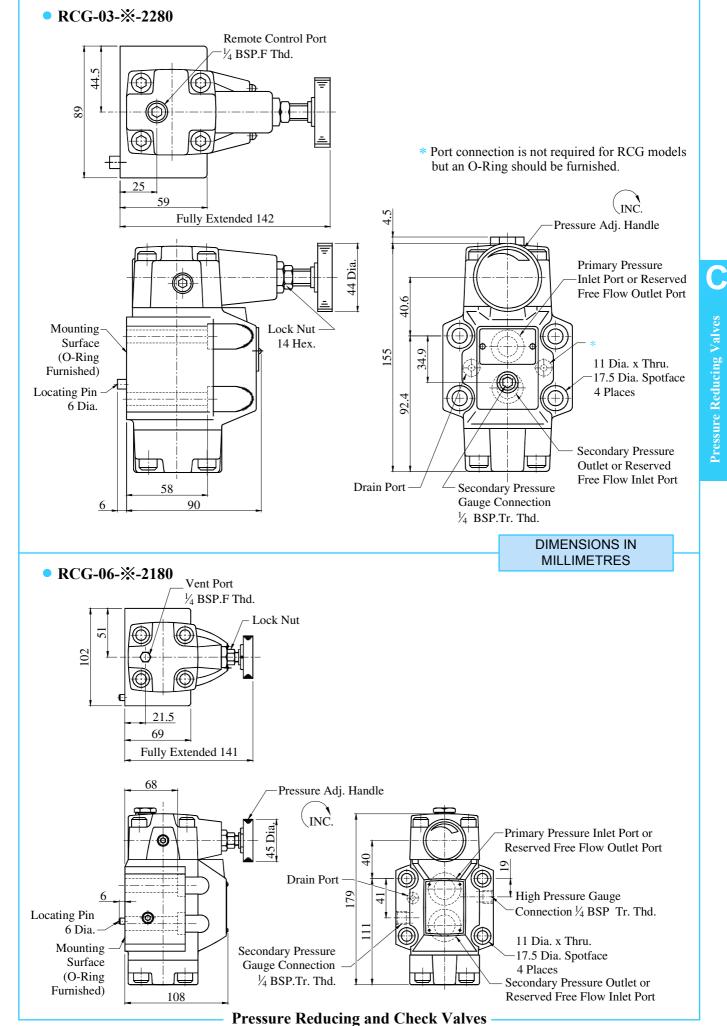
- To adjust the pressure, loosen the lock nut and turn the pressure adjustment handle slowly clockwise for higher pressures and anti-clockwise for lower pressures. After adjustments, do not forget to tighten the lock nut.
- Connect the drain port directly to the tank in which case the pressure at the drain port should be kept at a low back pressure close to the atmospheric pressure.
- In case of "Threaded Connections", there are two threaded connections type primary pressure ports. They can be connected each other in-line; one as an inlet and the other as an outlet or the valve can be used by plugging one of the pressure ports.

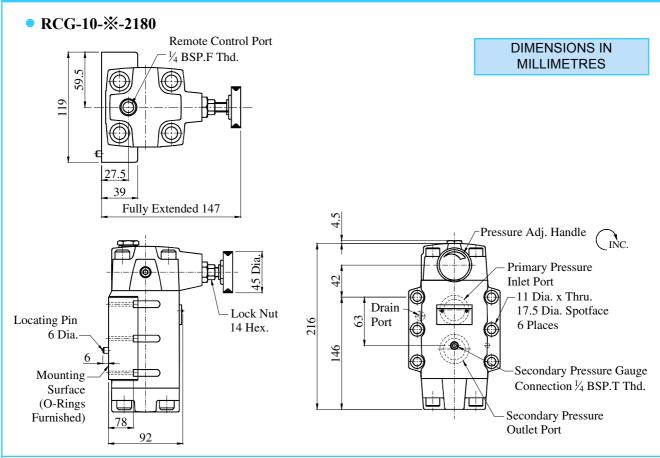
BKHCG-10-20



Model Numbers					Dime	ensions	mm				
Wodel Numbers	А	В	С	D	Е	F	Н	J	K	L	N
RCT-06	96	48	36.5	149	42	179	97.5	53.5	33	9	68
RCT-10	132	66	43	167	52	216	124	64	40	12	86

PRESSURE CONTROLS





Spare Parts List

I KEN

List of Seals

01			Part Numbers	Quantity				
Sl. No.	Name of Parts	RCT RCG ⁻⁰³	RCT RCG ⁻⁰⁶	RCT RCG ⁻¹⁰	RCT-Ж	RCG-Ж	RCG-06	RCG-10
1	O - Ring	SO-NB-P6	SO-NB-P6	SO-NB-P6	4	4	4	4
2	O - Ring	SO-NA-P9	SO-NA-P9	SO-NA-P9	1	1	1	1
3	O - Ring	SO-NB-P9	SO-NB-P9	SO-NB-P9	-	2	2	1
4	O - Ring	SO-NB-P12	SO-NB-P18	SO-NB-P22A	1	1	1	1
5	O - Ring	SO-NB-P18	SO-NB-P28	SO-NB-P32	-	2	2	2
6	O - Ring	SO-NB-P22	30-MB-F28	SO-NB-P36	2	2	2	2
7	O - Ring	-	SO-NB-G30	_	-	-	2	-
8	Bonded Seal	SG-FB-1/4	SG-FB-1/4	SG-FB-1/4	1	1	1	1

Note: When ordering the seals, please specify the seal kit number from the table below.

List of Seals Kits

Valve Model Numbers	Seal Kit Numbers
RCT-03-X-2280	KS-RCT-03-22
RCT-06-X-2280	KS-RCT-06-22
RCT-10-X-2280	KS-RCT-10-22
RCG-03-※-2280	KS-RCG-03-22
RCG-06-※-2180	KS-RCG-06-21
RCG-10-※-2180	KS-RCG-10-21