

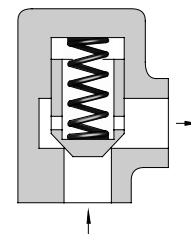
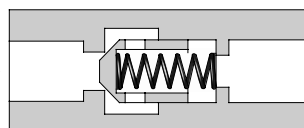
Up to 25 MPa (3630 PSI), 1300 L/min (343 U.S.GPM)

These valves allow free flow in one direction and prevent flow in the reverse direction. Cracking pressure specified is the pressure required to open the valve and allow free flow.

In-Line Check Valves and Right Angle Check Valves are available.

■ In-Line Check Valves....Page 2

■ Right Angle Check Valves....Page 4



Graphic Symbol



Graphic Symbol



■ Hydraulic Fluids

● Fluid Types

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

Petroleum base oils	Use fluids equivalent to ISO VG 32 or VG 46.
Synthetic fluids	Use phosphate ester or polyol ester fluid. When phosphate ester fluid is used, prefix "F-" to the model number because the special seals (fluororubber) are required to be used.
Water containing fluids	Use water-glycol fluid.

Note: For use with hydraulic fluids other than those listed above, please consult your Yuken representatives in advance.

● Recommended Viscosity and Oil Temperatures

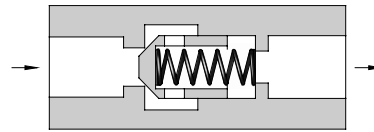
Viscosity ranging between 15 - 400 mm²/s (77 - 1800 SSU).

Oil temperatures between -15/+70°C (5 - 158°F).

Use hydraulic fluids which satisfy the recommended viscosity and oil temperatures given above.

● 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 valves. Please maintain the degree of contamination within NAS 1638-Grade 12. Use 25 μm or finer line filter.



Specifications

Model Numbers	Rated Flow* L/min (U.S.GPM)	Max. Operating Pres. MPa (PSI)	Cracking Pres. MPa (PSI)	Approx. Mass kg (lbs.)
CIT-02-*50/5080/5090	16 (4.23)	25 (3630)	0.04 (6) 0.35 (50) 0.5 (70)	0.1 (.22)
CIT-03-*50/5080/5090	30 (7.93)			0.3 (.66)
CIT-06-*50/5080/5090	85 (22.5)			0.8 (1.8)
CIT-10-*50/5080/5090	230 (60.8)			2.3 (5.1)

★ Rated flow is the approximate flow rate, when there is a free flow pressure drop of maximum 0.3 MPa (44 PSI), the fluid has a specific gravity of 0.85 and a kinematic viscosity of 20 mm²/s (98 SSU), and the cracking pressure is 0.04 MPa (6 PSI).

Model Number Designation

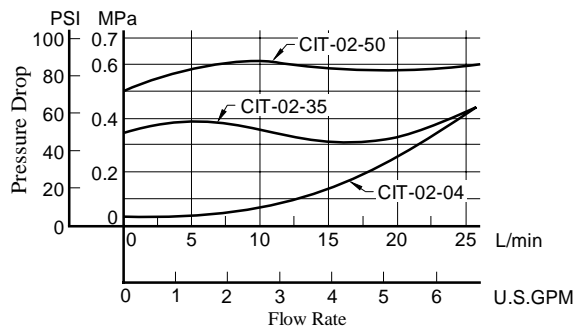
CI	T	-03	-04	-50	*
Series Number	Type of Connection	Valve Size	Cracking Pressure MPa (PSI)	Design Number	Design Standards
CI: In-Line Check Valve	T: Threaded Connection	02	04: 0.04 (6) 35: 0.35 (50) 50: 0.5 (70)	50	None: Japanese Std. "JIS" 80: European Design Std. 90: N. American Design Std.
		03		50	
		06		50	
		10		50	

Note: For In-Line Check Valves, standard type (for petroleum base oils) can be used phosphate ester type fluid.

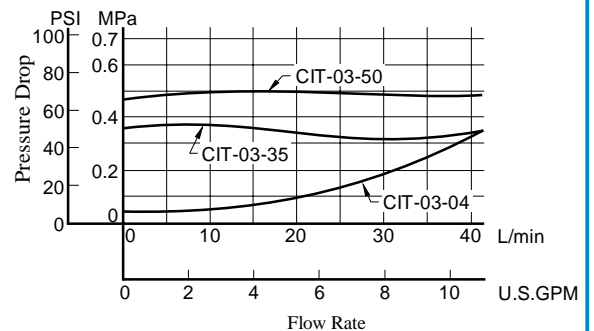
Pressure Drop

Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU) , Specific Gravity 0.850

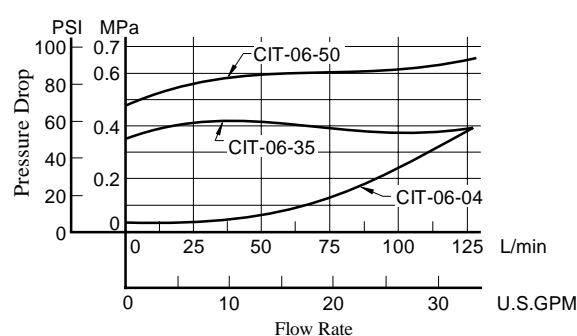
● CIT-02



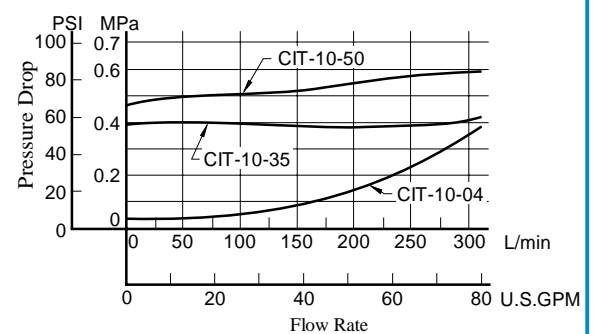
● CIT-03



● CIT-06

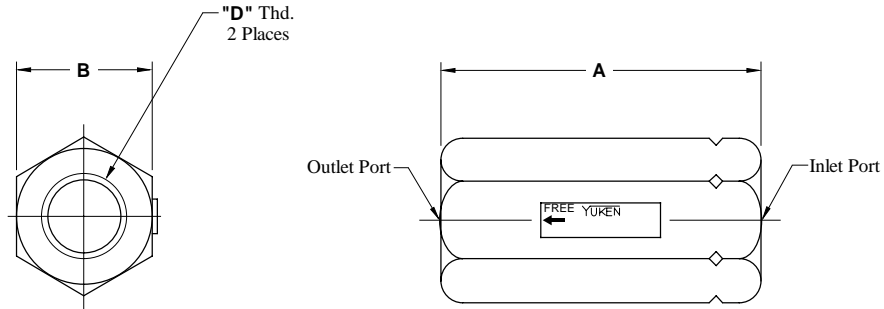


● CIT-10

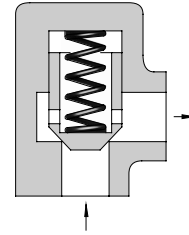


CIT-02-*-50/5080/5090
CIT-03-*-50/5080/5090
CIT-06-*-50/5080/5090
CIT-10-*-50/5080/5090

DIMENSIONS IN
MILLIMETRES (INCHES)



Model Numbers	mm (Inches)		"D" Thd.
	A	B	
CIT-02-*-50	58 (2.28)	19 (.75)	Rc 1/4
CIT-02-*-5080	65 (2.56)	22 (.87)	1/4 BSP.F
CIT-02-*-5090	58 (2.28)	19 (.75)	1/4 NPT
CIT-03-*-50	76 (2.99)	27 (1.06)	Rc 3/8
CIT-03-*-5080	83 (3.27)		3/8 BSP.F
CIT-03-*-5090	76 (2.99)		3/8 NPT
CIT-06-*-50	95 (3.74)	41 (1.61)	Rc 3/4
CIT-06-*-5080	102(4.02)		3/4 BSP.F
CIT-06-*-5090	95 (3.74)		3/4 NPT
CIT-10-*-50	133(5.24)	60 (2.36)	Rc 1-1/4
CIT-10-*-5080			1-1/4 BSP.F
CIT-10-*-5090			1-1/4 NPT



Specifications

Model Numbers		Rated Flow* L/min (U.S.GPM)	Max. Operating Pres. MPa (PSI)	Cracking Pres. MPa (PSI)	Approx. Mass kg (lbs.)
Threaded Connection	CRT-03-*-50/5080/5090	40 (10.6)	25 (3630)	0.04 (6)	0.9 (2.0)
	CRT-06-*-50/5080/5090	125 (33)		0.35 (50)	1.7 (3.7)
	CRT-10-*-50/5080/5090	250 (66)		0.5 (70)	5.6 (12.3)
Sub-plate Mounting	CRG-03-*-50/5090	40 (10.6)	25 (3630)	0.04 (6)	1.7 (3.7)
	CRG-06-*-50/5090	125 (33)		0.35 (50)	2.9 (6.4)
	CRG-10-*-50/5090	250 (66)		0.5 (70)	5.5 (12.1)

* Rated flow is the approximate flow rate, when there is a free flow pressure drop of maximum 0.3 MPa (44 PSI), the fluid has a specific gravity of 0.85 and a kinematic viscosity of 20 mm²/s (98 SSU), and the cracking pressure is 0.04 MPa (6 PSI).

Model Number Designation

F-	CR	T	-03	-04	-50	*
Special Seals	Series Number	Type of Connection	Valve Size	Cracking Pressure MPa (PSI)	Design Number	Design Standards
F: Special seals for phosphate ester type fluids (Omit if not required)	CR: Right Angle Check Valve	T: Threaded Connection	03	04:0.04 (6)	50	None: Japanese Std. "JIS" 80: European Design Std. 90: N. American Design Std.
			06	35:0.35 (50)	50	
			10	50:0.5 (70)	50	
		G: Sub-plate Mounting	03	04:0.04 (6)	50	None: Japanese Std. "JIS" & European Design Std. 90: N. American Design Std.
			06	35:0.35 (50)	50	
			10	50:0.5 (70)	50	

Sub-plate

Valve Model Numbers	Japanese Standard "JIS"		European Design Standard		N.American Design Standard		Approx. Mass kg (lbs.)
	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	
CRG-03	CRGM-03-50	Rc 3/8	CRGM-03-5080	3/8 BSP.F	CRGM-03-5090	3/8 NPT	1.6 (3.5)
	CRGM-03X-50	Rc 1/2	CRGM-03X-5080	1/2 BSP.F	CRGM-03X-5090	1/2 NPT	1.6 (3.5)
CRG-06	CRGM-06-50	Rc 3/4	CRGM-06-5080	3/4 BSP.F	CRGM-06-5090	3/4 NPT	2.4 (5.3)
	CRGM-06X-50	Rc 1	CRGM-06X-5080	1 BSP.F	CRGM-06X-5090	1 NPT	3.0 (6.6)
CRG-10	CRGM-10-50	Rc 1-1/4	CRGM-10-5080	1-1/4 BSP.F	CRGM-10-5090	1-1/4 NPT	4.8 (10.6)
	CRGM-10X-50	Rc 1-1/2	CRGM-10X-5080	1-1/2 BSP.F	CRGM-10X-5090	1-1/2 NPT	5.7 (12.6)

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

Yuken can offer flanged connection valves described below.

For details, contact us.

Model No.	Rated Flow L/min (U.S.GPM)	Max. Operating Pressure MPa (PSI)
CRF-10-*-50*	300 (79.3)	25 (3630)
CRF-16-*-50*	600 (159)	
CRF-24-*-50*	1300 (343)	

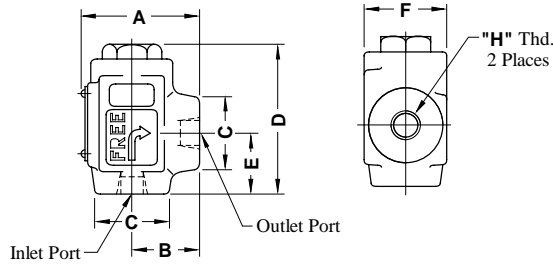
Mounting Bolts

Socket head cap screws in the table below are included.

Valve Model Numbers	Socket Head Cap Screw		Qty.
	Japanese Standard "JIS" European Design Standard	N.American Design Standard	
CRG-03	M10 × 45 Lg.	3/8-16 UNC × 1-3/4 Lg.	4
CRG-06	M10 × 50 Lg.	3/8-16 UNC × 2 Lg.	4
CRG-10	M10 × 55 Lg.	3/8-16 UNC × 2-1/4 Lg.	6

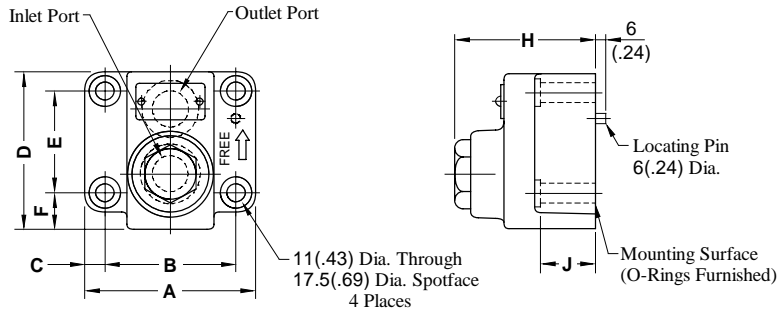
CRT-03-*-50/5080/5090
 CRT-06-*-50/5080/5090
 CRT-10-*-50/5080/5090

**DIMENSIONS IN
MILLIMETRES (INCHES)**



Model Numbers	Dimensions mm (Inches)						"H" Thd.
	A	B	C	D	E	F	
CRT-03-*-50	62	36	38	80.5	33	44	Rc 3/8
CRT-03-*-5080	(2.44)	(1.42)	(1.50) Dia	(3.17)	(1.30)	(1.73)	3/8 BSP.F
CRT-03-*-5090							3/8 NPT
CRT-06-*-50	74	45	54	104.5	49	54	Rc 3/4
CRT-06-*-5080	(2.91)	(1.77)	(2.13) Dia.	(4.11)	(1.93)	(2.13)	3/4 BSP.F
CRT-06-*-5090							3/4 NPT
CRT-10-*-50	107	65	80	130	65	80	Rc 1-1/4
CRT-10-*-5080	(4.21)	(2.56)	(3.15) SQ.	(5.12)	(2.56)	(3.15)	1-1/4 BSP.F
CRT-10-*-5090							1-1/4 NPT

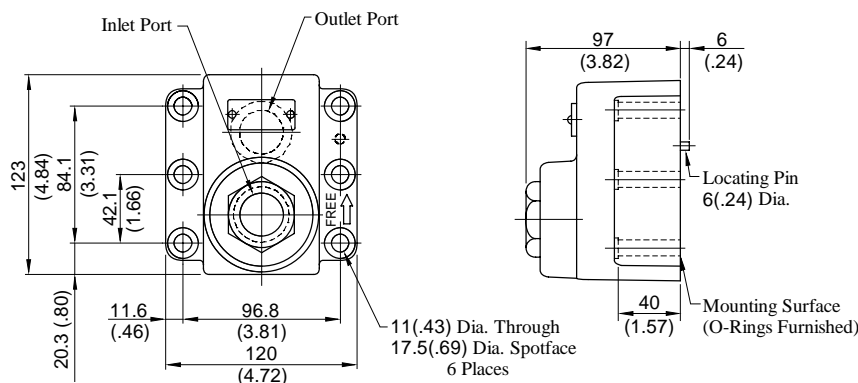
CRG-03-*-50/5090
 CRG-06-*-50/5090



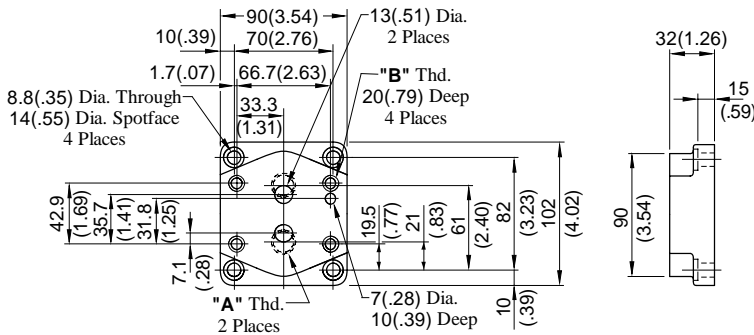
Model Numbers	Dimensions mm (Inches)								Mounting Surface
	A	B	C	D	E	F	H	J	
CRG-03	90	66.7	11.7	72	42.9	17.5	72.5	30	ISO 5781-AG-06-2-A
	(3.54)	(2.63)	(.46)	(2.83)	(1.69)	(.69)	(2.85)	(1.18)	
CRG-06	102	79.4	11.3	93	60.3	21.4	84.5	35	ISO 5781-AH-08-2-A
	(4.02)	(3.13)	(.44)	(3.66)	(2.37)	(.84)	(3.33)	(1.38)	

CRG-10-*-50/5090

Mounting surface: ISO 5781-AJ-10-2-A



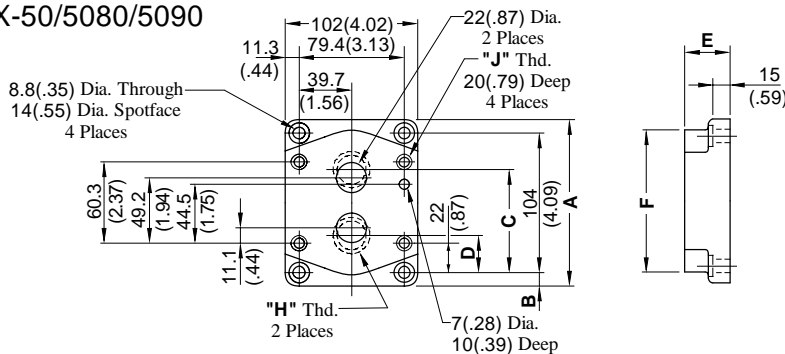
CRGM-03-50/5080/5090
CRGM-03X-50/5080/5090



Sub-plate Model Numbers	Thread Size	
	"A" Thd.	"B" Thd.
CRGM-03-50	Rc 3/8	M10
CRGM-03-5080	3/8 BSP.F	
CRGM-03-5090	3/8 NPT	3/8-16 UNC
CRGM-03X-50	Rc 1/2	M10
CRGM-03X-5080	1/2 BSP.F	
CRGM-03X-5090	1/2 NPT	3/8-16 UNC

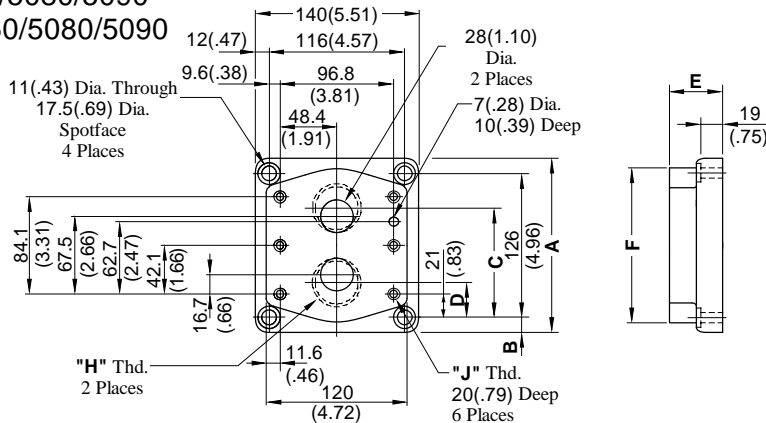
DIMENSIONS IN MILLIMETRES (INCHES)

CRGM-06-50/5080/5090
CRGM-06X-50/5080/5090



Sub-plate Model Numbers	Dimensions mm (Inches)						Thread Size	
	A	B	C	D	E	F	"H" Thd.	"J" Thd.
CRGM-06-50	124 (4.88)	10 (.39)	77 (3.03)	27 (1.06)	36 (1.42)	110 (4.33)	Rc 3/4	M10
CRGM-06-5080							3/4 BSP.F	
CRGM-06-5090							3/4 NPT	3/8-16 UNC
CRGM-06X-50	136 (5.35)	16 (.63)	82.3 (3.24)	22 (.87)	45 (1.77)	130 (5.12)	Rc 1	M10
CRGM-06X-5080			80 (3.15)	24 (.94)			1 BSP.F	
CRGM-06X-5090			82.3 (3.24)	22 (.87)			1 NPT	3/8-16 UNC

CRGM-10-50/5080/5090
CRGM-10X-50/5080/5090

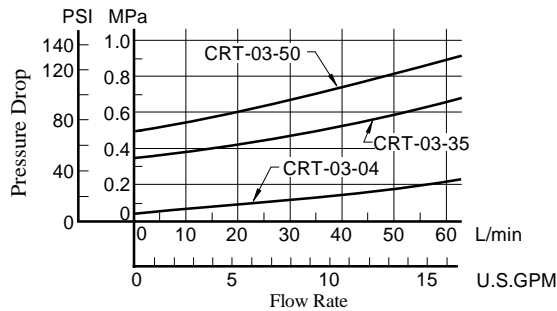


Sub-plate Model Numbers	Dimensions mm (Inches)						Thread Size	
	A	B	C	D	E	F	"H" Thd.	"J" Thd.
CRGM-10-50	150 (5.91)	12 (.47)	96 (3.78)	30 (1.18)	45 (1.77)	135 (5.31)	Rc 1-1/4	M10
CRGM-10-5080							1-1/4 BSP.F	
CRGM-10-5090							1-1/4 NPT	3/8-16 UNC
CRGM-10X-50	177 (6.97)	25.5 (1.00)	104 (4.09)	22 (.87)	50 (1.97)	167 (6.57)	Rc 1-1/2	M10
CRGM-10X-5080							1-1/2 BSP.F	
CRGM-10X-5090							1-1/2 NPT	3/8-16 UNC

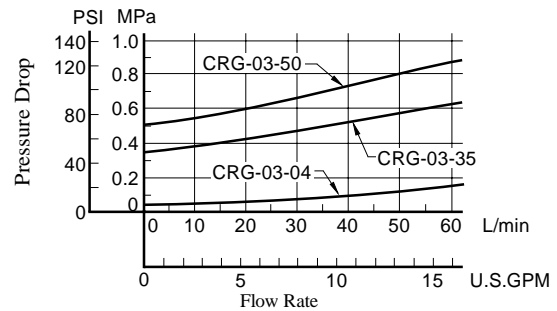
Pressure Drop

Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU) , Specific Gravity 0.850

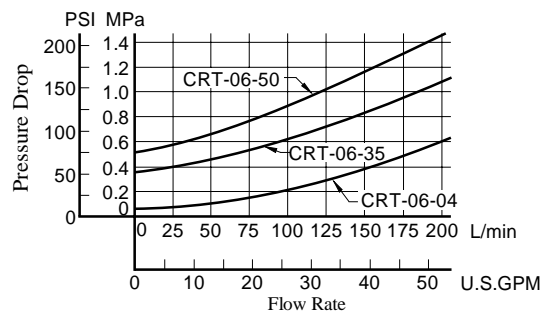
● CRT-03



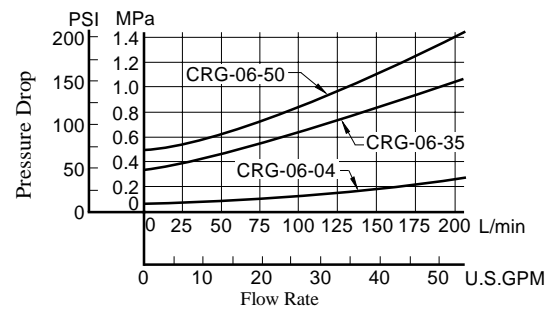
● CRG-03



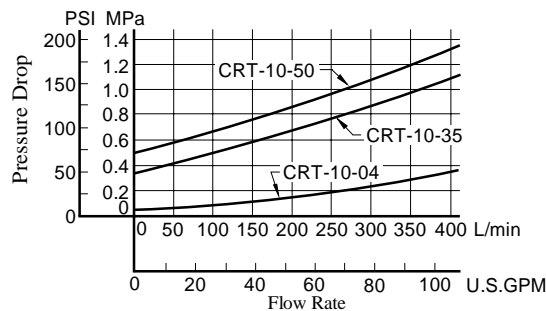
● CRT-06



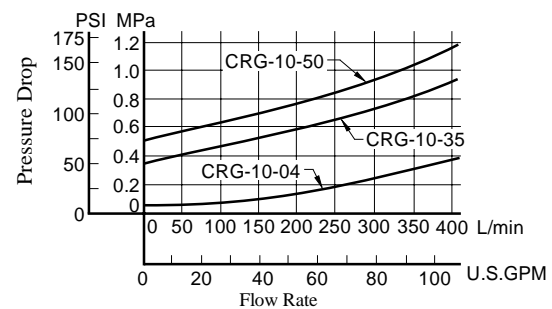
● CRG-06



● CRT-10

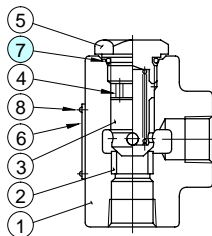


● CRG-10

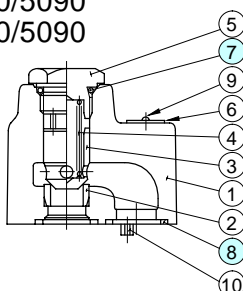


Spare Parts List

CRT-03-50/5080/5090
CRT-06-50/5080/5090
CRT-10-50/5080/5090



CRG-03-50/5090
CRG-06-50/5090
CRG-10-50/5090



CAUTION

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

● List of Seals & Seal Kits

Item	Name of Parts	Part Numbers			Qty.
		CRT-03	CRT-06	CRT-10	
7	O-Ring	SO-NB-P21	SO-NB-P24	SO-NB-P32	1
★	Seal Kit	KS-CRT-03-50	KS-CRT-06-50	KS-CRT-10-50	—

★ When ordering the O-Rings, please specify the seal kit number from the table above.

● List of Seals & Seal Kits

Item	Name of Parts	Part Numbers			Qty.
		CRG-03	CRG-06	CRG-10	
7	O-Ring	SO-NB-P21	SO-NB-P24	SO-NB-P32	1
8	O-Ring	SO-NB-P18	SO-NB-P28	SO-NB-P32	2
★	Seal Kit	KS-CRG-03-50	KS-CRG-06-50	KS-CRG-10-50	—

★ When ordering the O-Rings, please specify the seal kit number from the table above.



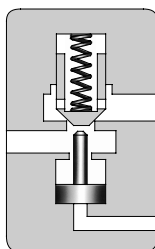


PILOT CONTROLLED CHECK VALVES
CPT / CPG-03 / 06 / 10 (3/8,3/4,1-1/4)
DECOMPRESSION TYPE
PILOT CONTROLLED CHECK VALVES
CPDT / CPDG-03 / 06 / 10 (3/8,3/4,1-1/4)
Threaded Connections / Sub-plate Mounting

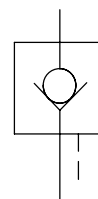
DIRECTIONAL CONTROLS

Up to 25 MPa (3630 PSI), 600 L/min (159 U.S.GPM)

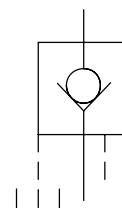
These check valves allow flow in one direction and prevent flow in the reverse direction, until operated by pilot pressure to allow free reverse flow. The specified cracking pressure is required to open the valve to allow free flow direction.



Graphic Symbols



Internal Drain Type



External Drain Type

Specifications

Model Numbers		Rated Flow* L/min (U.S.GPM)	Max. Operating Pres. MPa (PSI)	Cracking Pres. MPa (PSI)	Approx. Mass kg (lbs.)
Threaded Connection	CPT/CPDT-03-*-*-50*	40 (10.6)	25 (3630)	0.04 (6)	3.0 (6.6)
	CPT/CPDT-06-*-*-50*	125 (33)		0.2 (29)	5.5 (12.1)
	CPT/CPDT-10-*-*-50*	250 (66)		0.35 (50)	9.6 (21.2)
Sub-plate Mounting	CPG/CPDG-03-*-*-50*	40 (10.6)	25 (3630)	0.04 (6)	3.3 (7.3)
	CPG/CPDG-06-*-*-50*	125 (33)		0.2 (29)	5.4 (11.9)
	CPG/CPDG-10-*-*-50*	250 (66)		0.35 (50)	8.5 (18.7)

★ Rated flow is the approximate flow rate, when there is a free flow pressure drop of maximum 0.3 MPa (44 PSI), the fluid has a specific gravity of 0.85 and a kinematic viscosity of 20 mm²/s (98 SSU), and the cracking pressure is 0.04 MPa (6 PSI).

Model Number Designation

F-	CP	T	03	-E	-04	-50	*
Special Seals	Series Number	Type of Connection	Valve Size	Drain Connection	Cracking Pres. MPa (PSI)	Design Number	Design Standards
F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	CP: Pilot Controlled Check Valve	T: Threaded Connection	03	None: Internal Drain	04:0.04 (6)	50	None: Japanese Std. "JIS" 80: European Design Std. 90: N. American Design Std.
			06			50	
			10			50	
	CPD: Decompression Type Pilot Controlled Check Valve	G: Sub-plate Mounting	03	E: External Drain	35:0.35 (50) 50:0.5 (70)	50	None: Japanese Std. "JIS" & European Design Std. 90: N. American Design Std.
			06			50	
			10			50	

Mounting Bolts

Socket head cap screws in the table below are included.

Valve Model Numbers	Socket Head Cap Screw		Qty.
	Japanese Standard "JIS" & European Design Standard	N.American Design Standard	
CP*G-03	M10 × 45 Lg.	3/8-16 UNC × 1-3/4 Lg.	4
CP*G-06	M10 × 50 Lg.	3/8-16 UNC × 2 Lg.	4
CP*G-10	M10 × 55 Lg.	3/8-16 UNC × 2-1/4 Lg.	6

Yuken can offer flanged connection valves described below.

For details, contact us.

Model Numbers	Rated Flow L/min (U.S.GPM)	Max. Operating Pressure MPa (PSI)
CP*F-10-*-*-50*	250 (66)	25 (3630)
CP*F-16-*-*-50*	600 (159)	25 (3630)



Hydraulic Fluids

Fluid Types

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

Petroleum base oils	Use fluids equivalent to ISO VG 32 or VG 46.
Synthetic fluids	Use phosphate ester or polyol ester fluid. When phosphate ester fluid is used, prefix "F-" to the model number because the special seals (fluororubber) are required to be used.
Water containing fluids	Use water-glycol fluid.

Note: For use with hydraulic fluids other than those listed above, please consult your Yuken representatives in advance.

Recommended Viscosity and Oil Temperatures

Viscosity ranging between 15 - 400 mm²/s (77 - 1800 SSU).

Oil temperatures between -15/+70°C (5 - 158°F).

Use hydraulic fluids which satisfy the recommended viscosity and oil temperatures given above.

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 valves. Please maintain the degree of contamination within NAS 1638-Grade 12. Use 25 μm or finer line filter.

Sub-plate

Valve Model Numbers	Japanese Standard "JIS"		European Design Standard		N. American Design Standard		Approx. Mass kg (lbs.)
	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	
CP*G-03	HGM-03-20	Rc 3/8	HGM-03-2080	3/8 BSP.F	HGM-03-2090	3/8 NPT	1.6 (3.5)
	HGM-03X-20	Rc1/2	HGM-03X-2080	1/2 BSP.F	HGM-03X-2090	1/2 NPT	1.6 (3.5)
CP*G-06	HGM-06-20	Rc 3/4	HGM-06-2080	3/4 BSP.F	HGM-06-2090	3/4 NPT	2.4 (5.3)
	HGM-06X-20	Rc 1	HGM-06X-2080	1 BSP.F	HGM-06X-2090	1 NPT	3.0 (6.6)
CP*G-10	HGM-10-20	Rc 1-1/4	HGM-10-2080	1-1/4 BSP.F	HGM-10-2090	1-1/4 NPT	4.8 (10.6)
	HGM-10X-20	Rc 1-1/2	HGM-10X-2080	1-1/2 BSP.F	HGM-10X-2090	1-1/2 NPT	5.7 (12.6)

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

Instructions

Operation of internal and external drain types

When the outlet side P1 is directly connected to the tank in reversed free flow (Fig. a), the internal drain type is normally used. When the back pressure is applied to the outlet side P1 (Fig. b), be sure to use the external drain type.

Minimum pilot pressure characteristics

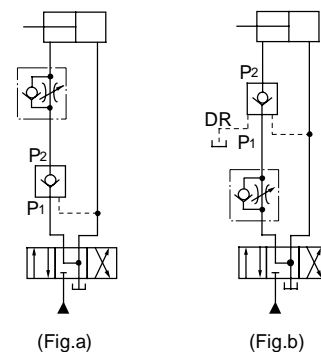
That depends on the pressure of the inlet side P2 in the reversed free flow.

This value can be determined from the characteristics chart.

Cautions on replacement of 20 design low cracking pressure type valves with 50 design valves.

In 20 design valve with cracking pressure of 0.035 MPa (5 PSI) (Code "5"), for closing the valve completely and certainly, it was necessary to introduce the pressurized oil into the drain port to push down the piston compulsory.

While in 50 design valve with cracking pressure of 0.04 MPa (6 PSI) (Code "6"), it has such structure that the valve can be closed completely and certainly without introducing the pressurized oil into the drain port. On the contrary, what is worse is that if the pressurized oil is introduced into the drain port, the oil acts towards the direction of opening the valve, which is very dangerous and has to be absolutely avoided. Therefore, please do not supply any pressurized oil into the drain port in case of using 50 design valve.



(Fig.a)

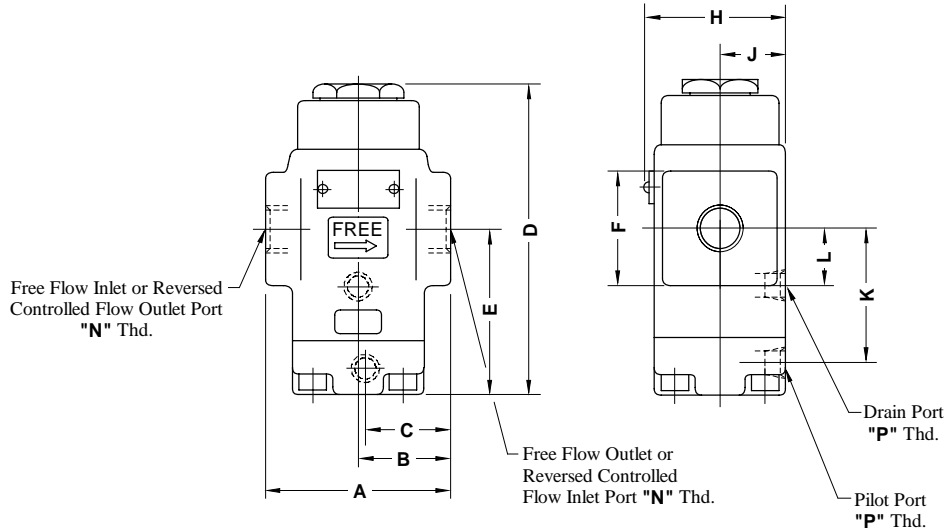
(Fig.b)

WARNING

The machinery, if misused due to failure to observe the "Cautions" on the left, may perform unforeseeable movements, resulting in a disastrous accident.

Installation Drawings

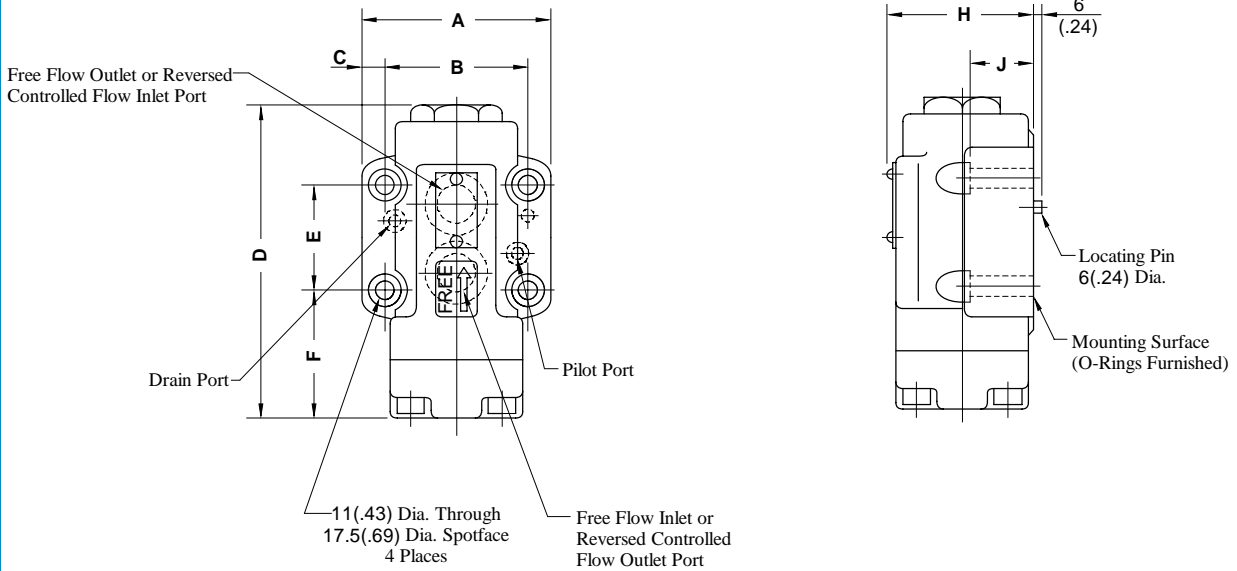
CPT/CPDT-03-**-50/5080/5090
 CPT/CPDT-06-**-50/5080/5090
 CPT/CPDT-10-**-50/5080/5090



Model Numbers	Dimensions mm (Inches)										Thread Size	
	A	B	C	D	E	F	H	J	K	L	"N" Thd.	"P" Thd.
CPT/CPDT-03-**-50	80 (3.15)	40 (1.57)	39 (1.54)	150.5 (5.93)	84.5 (3.33)	38 (1.50) Dia.	60 (2.36)	29 (1.14)	67.5 (2.66)	26.5 (1.04)	Rc 3/8	Rc 1/4
CPT/CPDT-03-**-5080											3/8 BSP.F	1/4 BSP.F
CPT/CPDT-03-**-5090											3/8 NPT	1/4 NPT
CPT/CPDT-06-**-50	96 (3.78)	48 (1.89)	47 (1.85)	171.5 (6.75)	92.5 (3.64)	62 (2.44) SQ.	72 (2.83)	35 (1.38)	75.5 (2.97)	31 (1.22)	Rc 3/4	Rc 1/4
CPT/CPDT-06-**-5080											3/4 BSP.F	1/4 BSP.F
CPT/CPDT-06-**-5090											3/4 NPT	1/4 NPT
CPT/CPDT-10-**-50	140 (5.51)	70 (2.76)	64 (2.52)	203.5 (8.01)	113 (4.45)	80 (3.15) SQ.	82 (3.23)	40 (1.57)	96 (3.78)	43 (1.69)	Rc 1-1/4	Rc 1/4
CPT/CPDT-10-**-5080											1-1/4 BSP.F	1/4 BSP.F
CPT/CPDT-10-**-5090											1-1/4 NPT	1/4 NPT



CPG/CPDG-03-*-50/5090
CPG/CPDG-06-*-50/5090

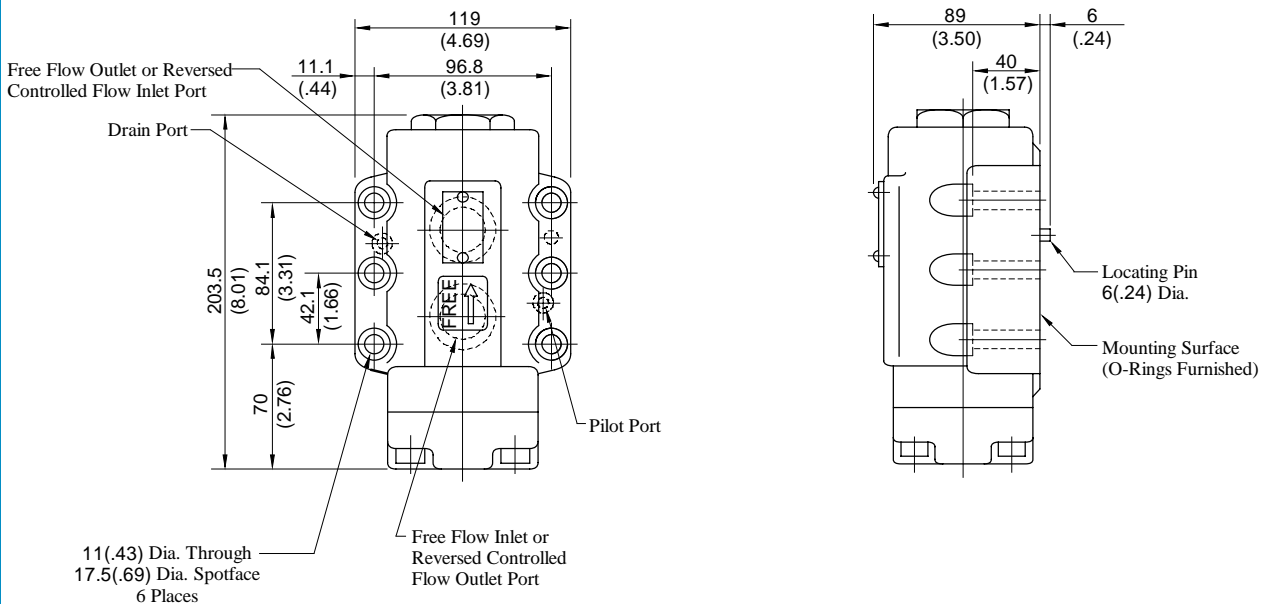


Model Numbers	Dimensions mm (Inches)								Mounting Surface
	A	B	C	D	E	F	H	J	
CPG/CPDG-03-*-50/5090	90 (3.54)	66.7 (2.63)	11.7 (.46)	150.5 (5.93)	42.9 (1.69)	66 (2.60)	62 (2.44)	30 (1.18)	ISO 5781-AG-06-2-A
CPG/CPDG-06-*-50/5090	102 (4.02)	79.4 (3.13)	11.3 (.44)	171.5 (6.75)	60.3 (2.37)	67.5 (2.66)	74 (2.91)	35 (1.38)	ISO 5781-AH-08-2-A

CPG/CPDG-10-*-50/5090

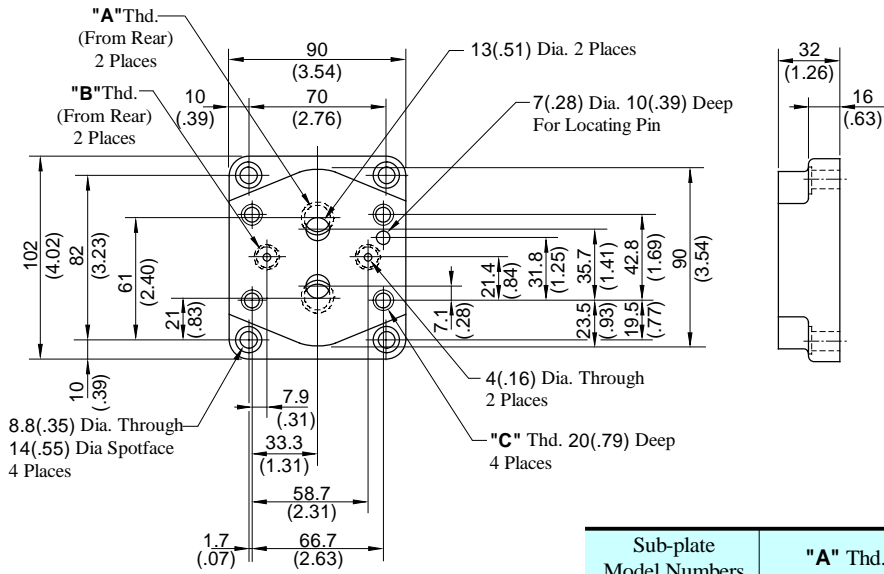
Mounting surface: ISO 5781-AJ-10-2-A

**DIMENSIONS IN
MILLIMETRES (INCHES)**



HGM-03-20/2080/2090
HGM-03X-20/2080/2090

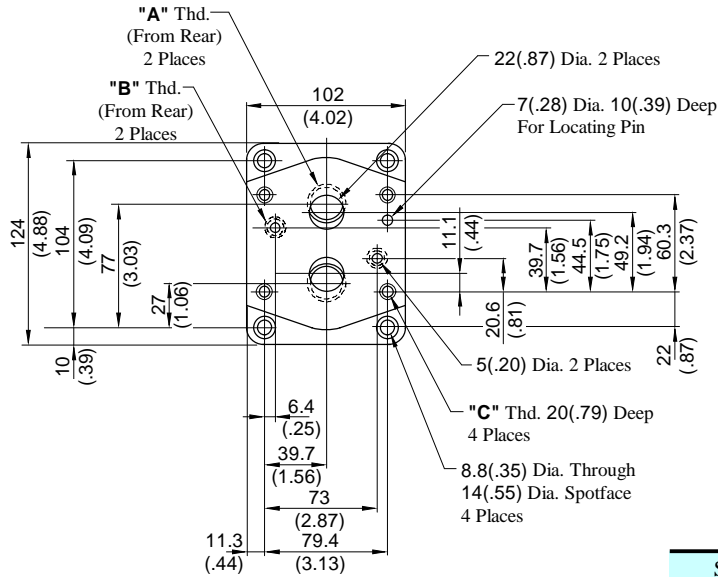
DIMENSIONS IN MILLIMETRES (INCHES)



Sub-plate Model Numbers	"A" Thd.	"B" Thd.	"C" Thd.
HGM-03-20	Rc 3/8	Rc 1/4	M10
HGM-03X-20	Rc 1/2		
HGM-03-2080	3/8 BSP.F	1/4 BSP.F	
HGM-03X-2080	1/2 BSP.F		
HGM-03-2090	3/8 NPT	1/4 NPT	3/8-16 UNC
HGM-03X-2090	1/2 NPT		



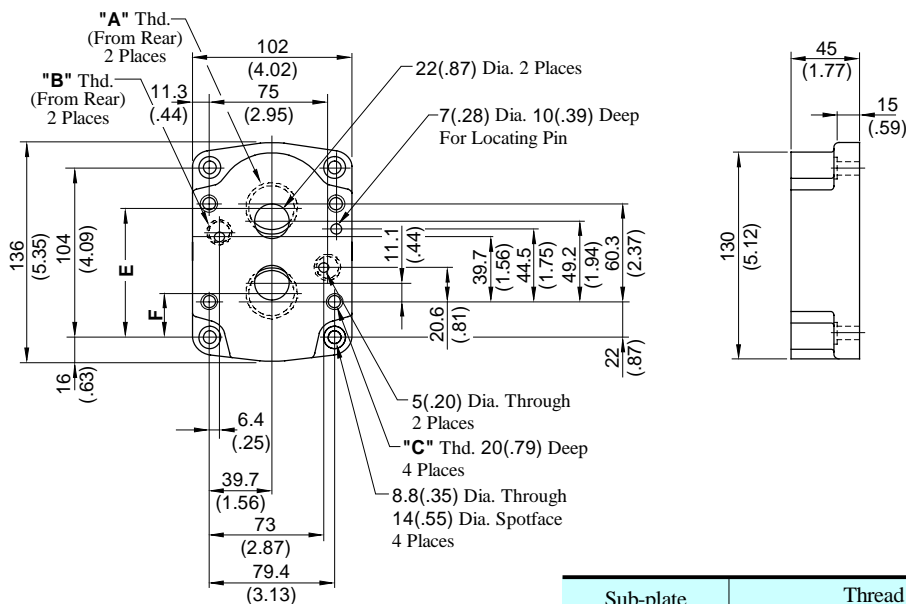
HGM-06-20/2080/2090



DIMENSIONS IN MILLIMETRES (INCHES)

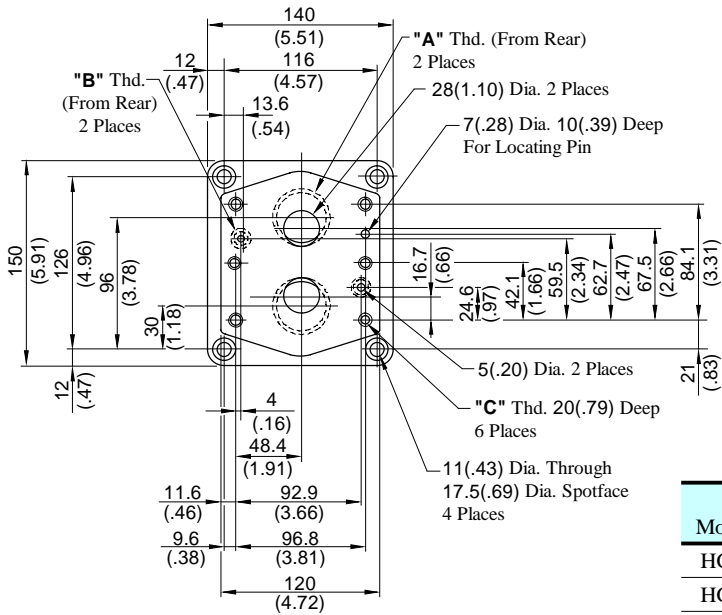
Sub-plate Model Numbers	"A" Thd.	"B" Thd.	"C" Thd.
HGM-06-20	Rc 3/4	Rc 1/4	M10
HGM-06-2080	3/4 BSP.F	1/4 BSP.F	
HGM-06-2090	3/4 NPT	1/4 NPT	3/8-16 UNC

HGM-06X-20/2080/2090



Sub-plate Model Numbers	Thread Size			mm (Inches)	
	"A" Thd.	"B" Thd.	"C" Thd.	E	F
HGM-06X-20	Rc 1	Rc 1/4	M10	82.3 (3.24)	22 (.87)
HGM-06X-2080	1 BSP.F	1/4 BSP.F		80 (3.15)	24 (.94)
HGM-06X-2090	1 NPT	1/4 NPT	3/8-16 UNC		

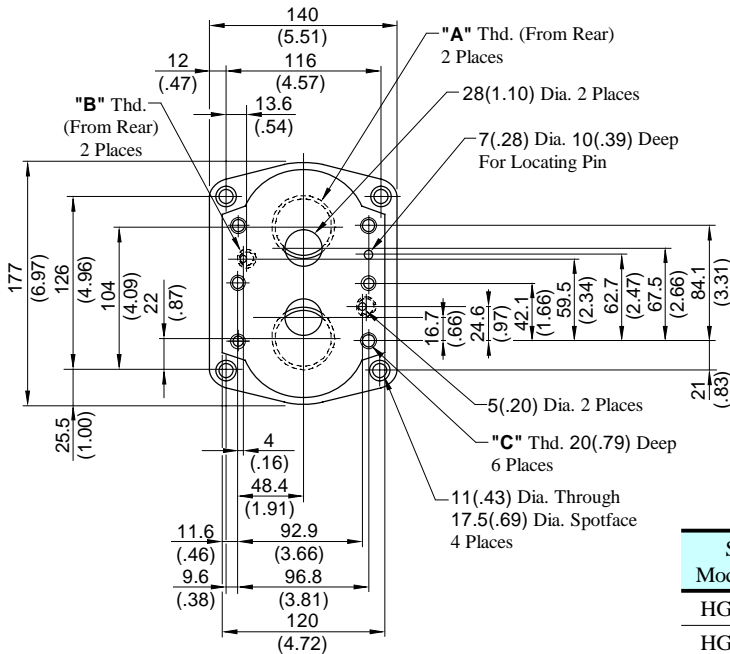
HGM-10-20/2080/2090



DIMENSIONS IN MILLIMETRES (INCHES)

Sub-plate Model Numbers	"A" Thd.	"B" Thd.	"C" Thd.
HGM-10-20	Rc 1-1/4	Rc 1/4	M10
HGM-10-2080	1-1/4 BSP.F	1/4 BSP.F	
HGM-10-2090	1-1/4 NPT	1/4 NPT	3/8-16 UNC

HGM-10X-20/2080/2090



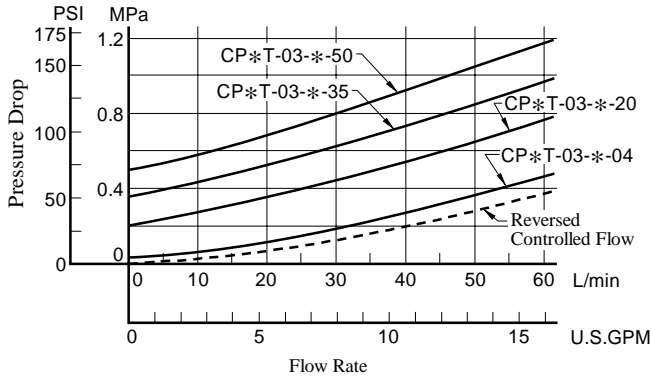
Sub-plate Model Numbers	"A" Thd.	"B" Thd.	"C" Thd.
HGM-10X-20	Rc 1-1/2	Rc 1/4	M10
HGM-10X-2080	1-1/2 BSP.F	1/4 BSP.F	
HGM-10X-2090	1-1/2 NPT	1/4 NPT	3/8-16 UNC



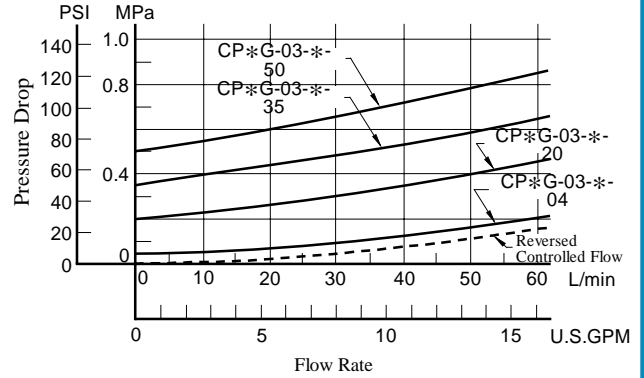
Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU) , Specific Gravity 0.850

■ Pressure Drop

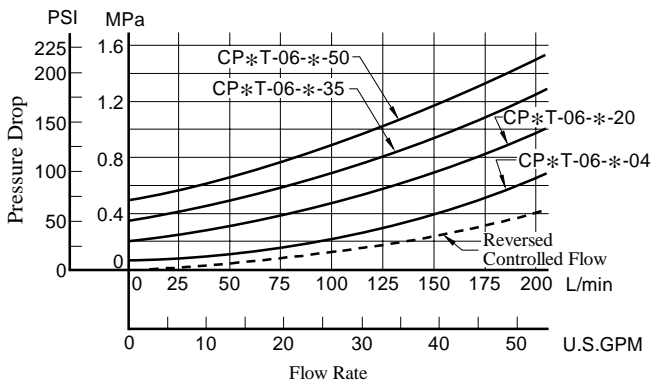
● CPT-03, CPDT-03



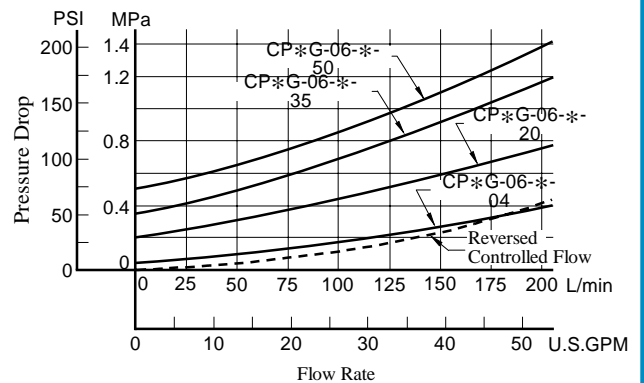
● CPG-03, CPDG-03



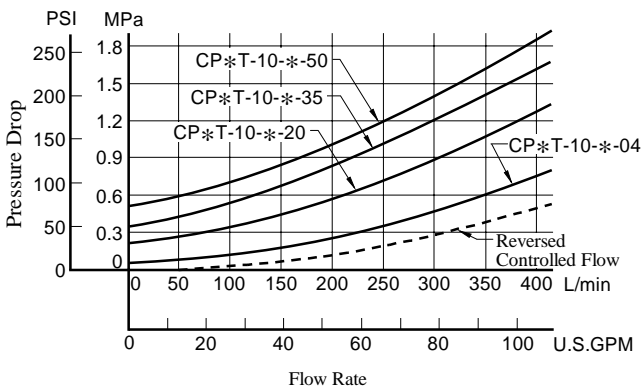
● CPT-06, CPDT-06



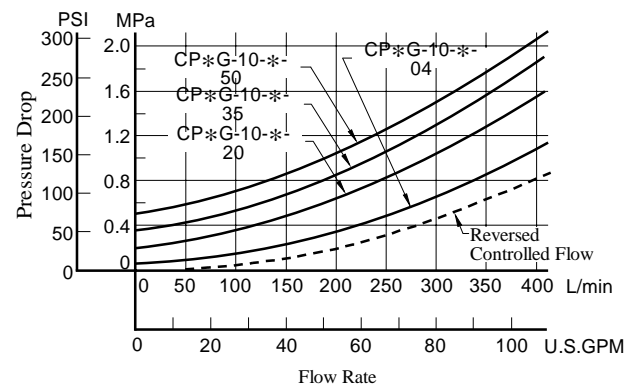
● CPG-06, CPDG-06



● CPT-10, CPDT-10

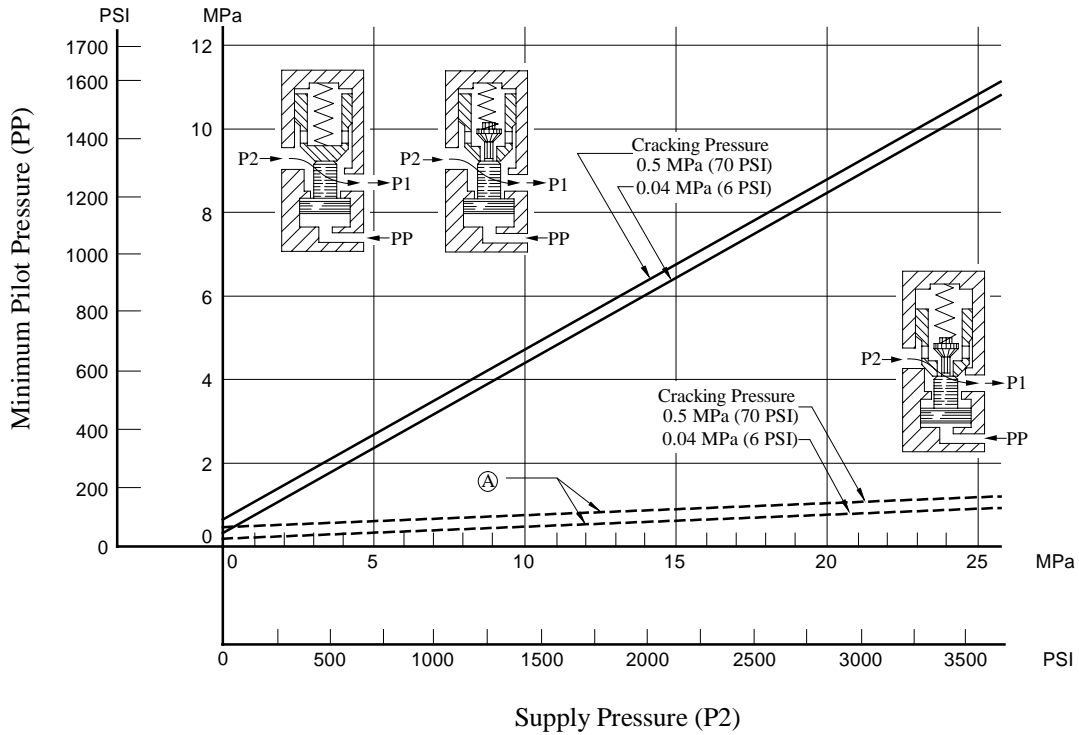


● CPG-10, CPDG-10



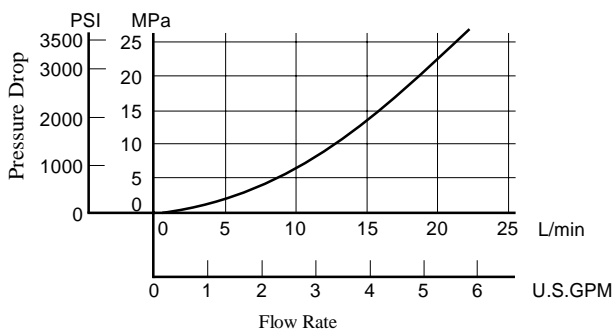
Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU) , Specific Gravity 0.850

■ Min. Pilot Pressure Chart

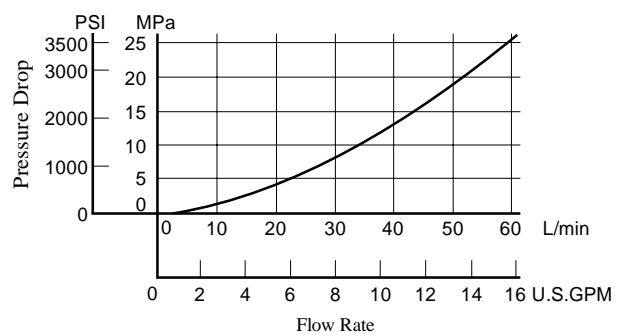


■ Pressure Drop for Reversed Controlled Flow Only when Decompression Valve is Opened

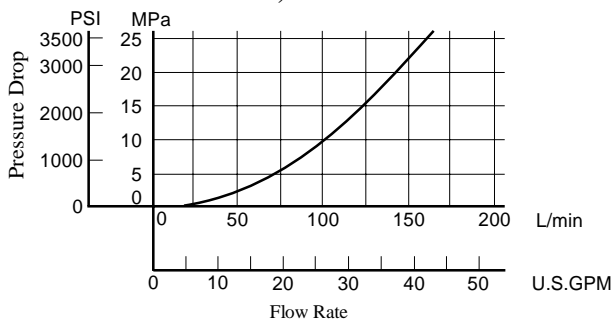
● CPDT-03, CPDG-03



● CPDT-06, CPDG-06



● CPDT-10, CPDG-10

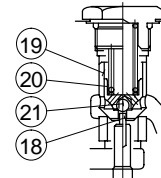
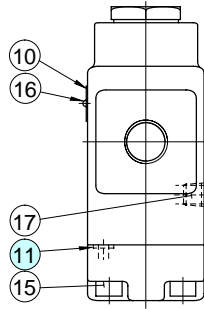
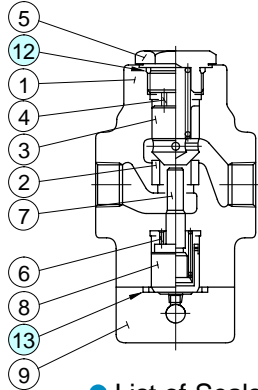


Spare Parts List

CPT/CPDT-03-*-50/5080/5090
CPT/CPDT-06-*-50/5080/5090
CPT/CPDT-10-*-50/5080/5090

CAUTION

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



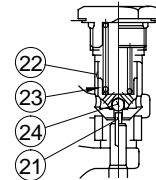
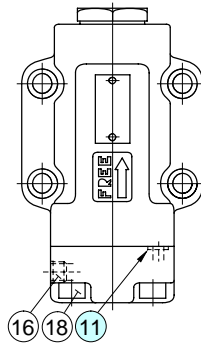
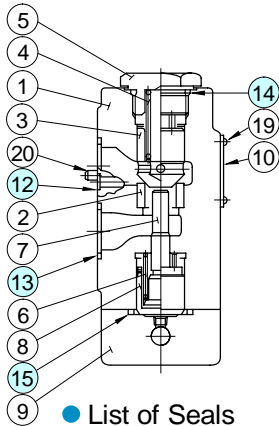
CPDT-03/06/10

List of Seals

Item	Name of Parts	Part Numbers			Qty.
		CPT/CPDT-03	CPT/CPDT-06	CPT/CPDT-10	
11	O-Ring	SO-NB-P7	SO-NB-P9	SO-NB-P9	1
12	O-Ring	SO-NB-P21	SO-NB-P29	SO-NB-P36	1
13	O-Ring	SO-NB-G25	SO-NB-P32	SO-NB-P42	1

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

CPG/CPDG-03-*-50/5090
CPG/CPDG-06-*-50/5090
CPG/CPDG-10-*-50/5090



CPDG-03/06/10

List of Seals

Item	Name of Parts	Part Numbers			Qty.
		CPG/CPDG-03	CPG/CPDG-06	CPG/CPDG-10	
11	O-Ring	SO-NB-P7	SO-NB-P9	SO-NB-P9	1
12	O-Ring	SO-NB-P9	SO-NB-P9	SO-NB-P9	2
13	O-Ring	SO-NB-P18	SO-NB-P28	SO-NB-P32	2
14	O-Ring	SO-NB-P21	SO-NB-P29	SO-NB-P36	1
15	O-Ring	SO-NB-G25	SO-NB-P32	SO-NB-P42	1

Note: When ordering the O-Rings, please specify the seal kit number from the table below.

List of Seal Kits

Model Numbers	Seal Kit Numbers
CPT/CPDT-03-*-50/5080/5090	KS-CPT-03-50
CPT/CPDT-06-*-50/5080/5090	KS-CPT-06-50
CPT/CPDT-10-*-50/5080/5090	KS-CPT-10-50
CPG/CPDG-03-*-50/5090	KS-CPG-03-50
CPG/CPDG-06-*-50/5090	KS-CPG-06-50
CPG/CPDG-10-*-50/5090	KS-CPG-10-50