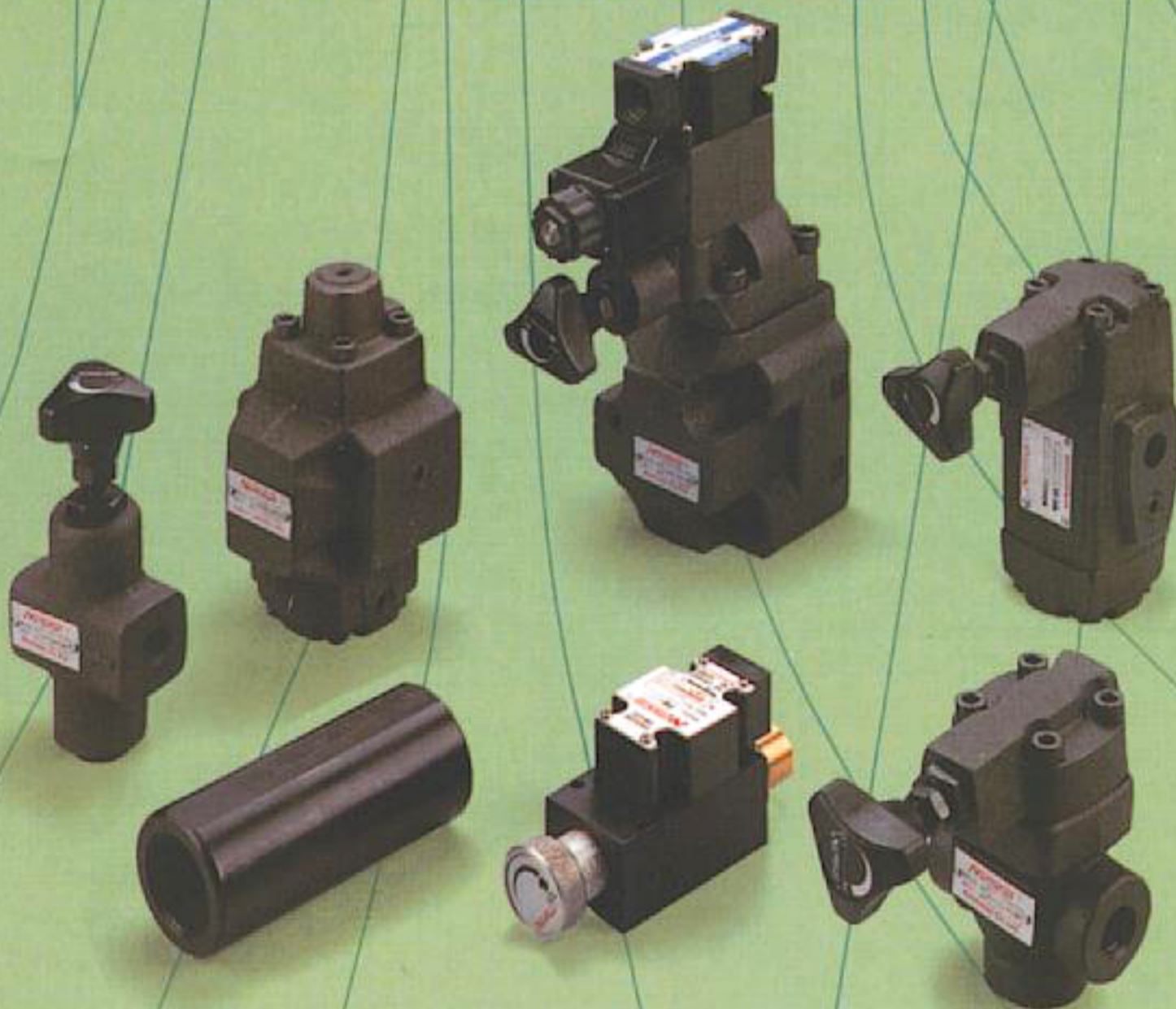


Northman



**HYDRAULIC
CONTROL VALVE**

INDEX

PRESSURE CONTROLS

REMOTE CONTROL RELIEF VALVE.....	1-1-1
DIRECT TYPE RELIEF VALVE.....	1-2-1
PILOT OPERATED RELIEF VALVE	1-3-1
LOW NOISE TYPE PILOT OPERATED RELIEF VALVE	1-4-1
SOLENOID CONTROLLED RELIEF VALVE.....	1-5-1
LOW NOISE TYPE SOLENOID CONTROLLED RELIEF VALVE	1-6-1
H & HC TYPE PRESSURE CONTROL VALVE	1-7-1
PRESSURE REDUCING VALVE	1-8-1

FLOW CONTROLS

RESTRICTORS	2-1-1
SOLENOID OPERATED FLOW CONTROL VALVE	2-2-1

DIRECTIONAL CONTROLS

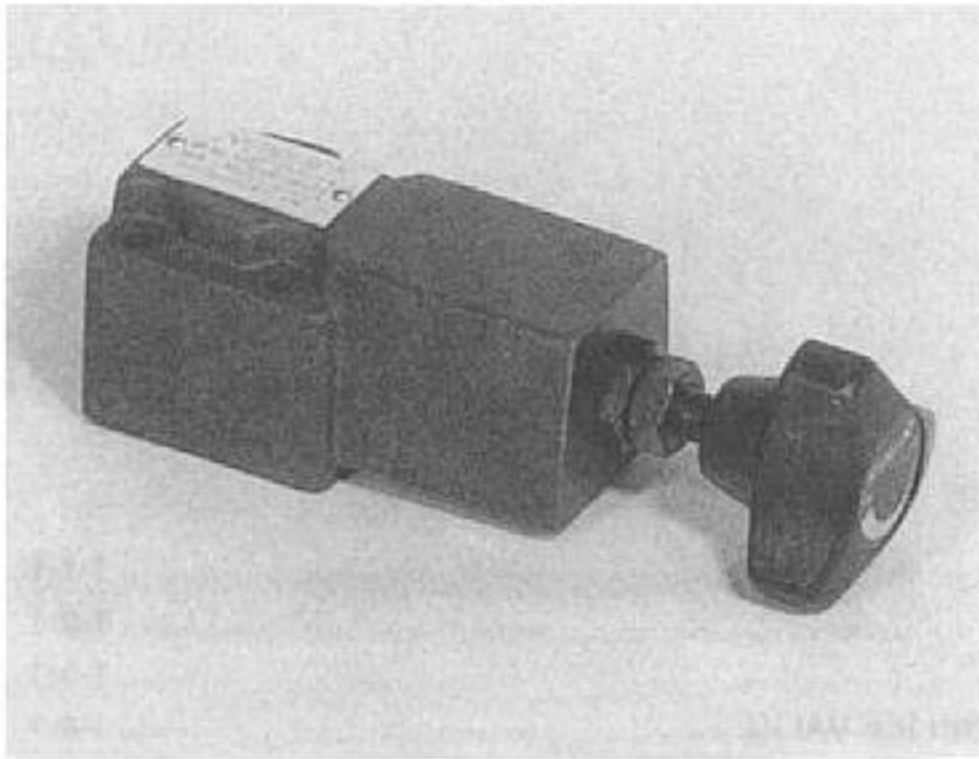
MANUALLY OPERATED DIRECTIONAL VALVES.....	3-1-1
CAM OPERATED DIRECTIONAL VALVES.....	3-2-1
PILOT CONTROLLED CHECK VALVES	3-3-1
IN-LINE CHECK VALVES	3-4-1
RIGHT ANGLE CHECK VALVES.....	3-5-1

ACCESSORIES & OTHERS

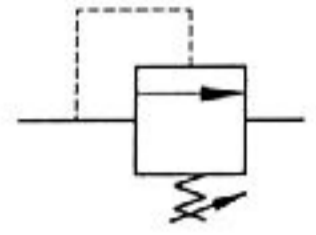
LIFT VALVE.....	4-1-1
PISTON TYPE PRESSURE SWITCH.....	4-2-1
CARTRIDGE PRESSURE RELIEF	4-3-1
OIL HEAT EXCHANGER	4-4-1
SUCTION STRAINERS.....	4-5-1
RESERVOIR LEVEL INDICATOR	4-6-1
GAUGE COCK.....	4-7-1
PRESSURE GAGE	4-8-1
FILTRATION CARTS	4-9-1

PRESSURE CONTROLS

REMOTE CONTROL RELIEF VALVE



SYMBOL

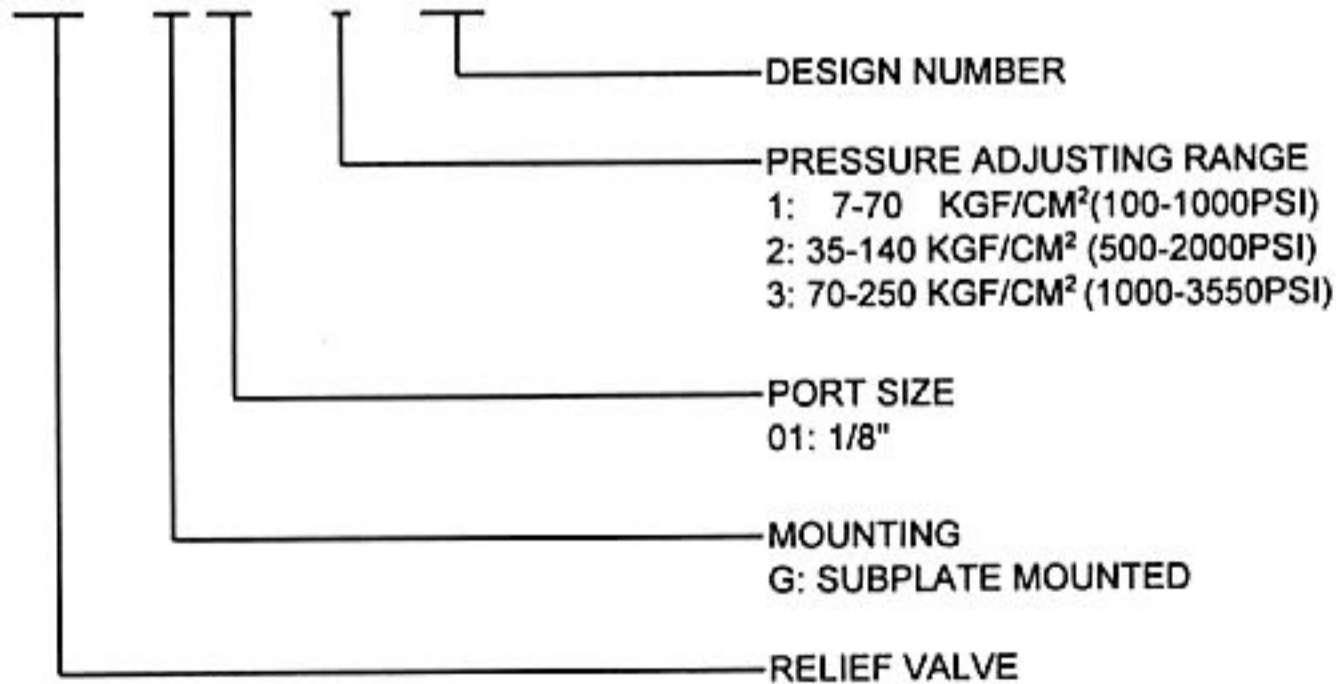


SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ² (PSI)	PRESSURE ADJ. RANGE KGF/CM ² (PSI)	RATE FLOW LPM(GPM)	MOUNTED BOLT METER(INCH)
RF-G01	250(3550)	1:7-70(100-1000) 2:35-140(500-2000) 3:70-250(1000-3550)	2(0.5)	M5x40L 4 PCS #10-24UNC-1 1/2" 4 PCS

HOW TO ORDER

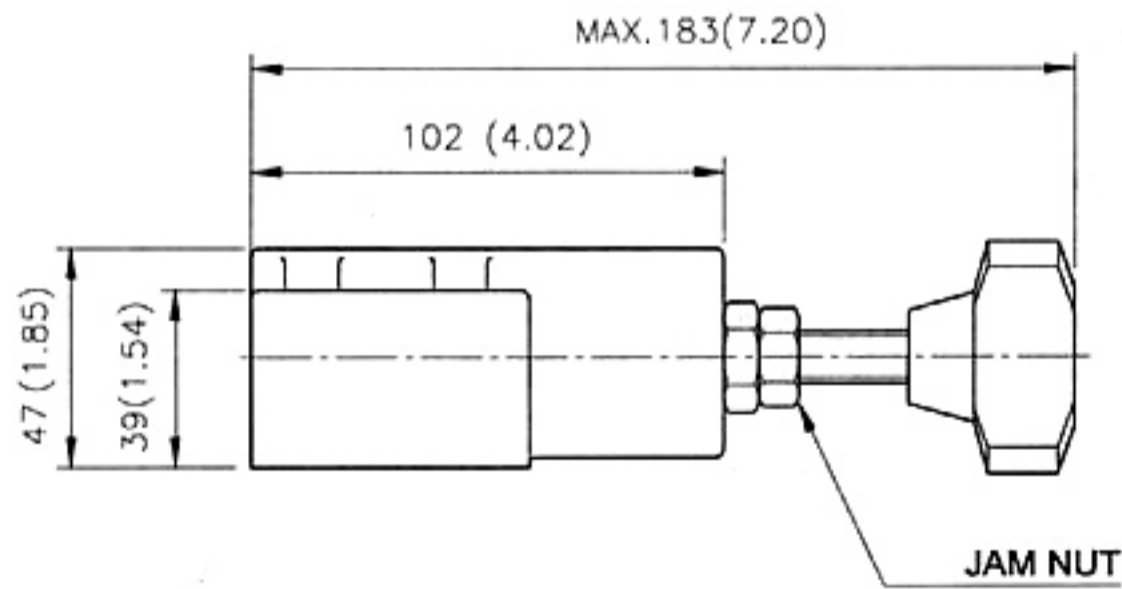
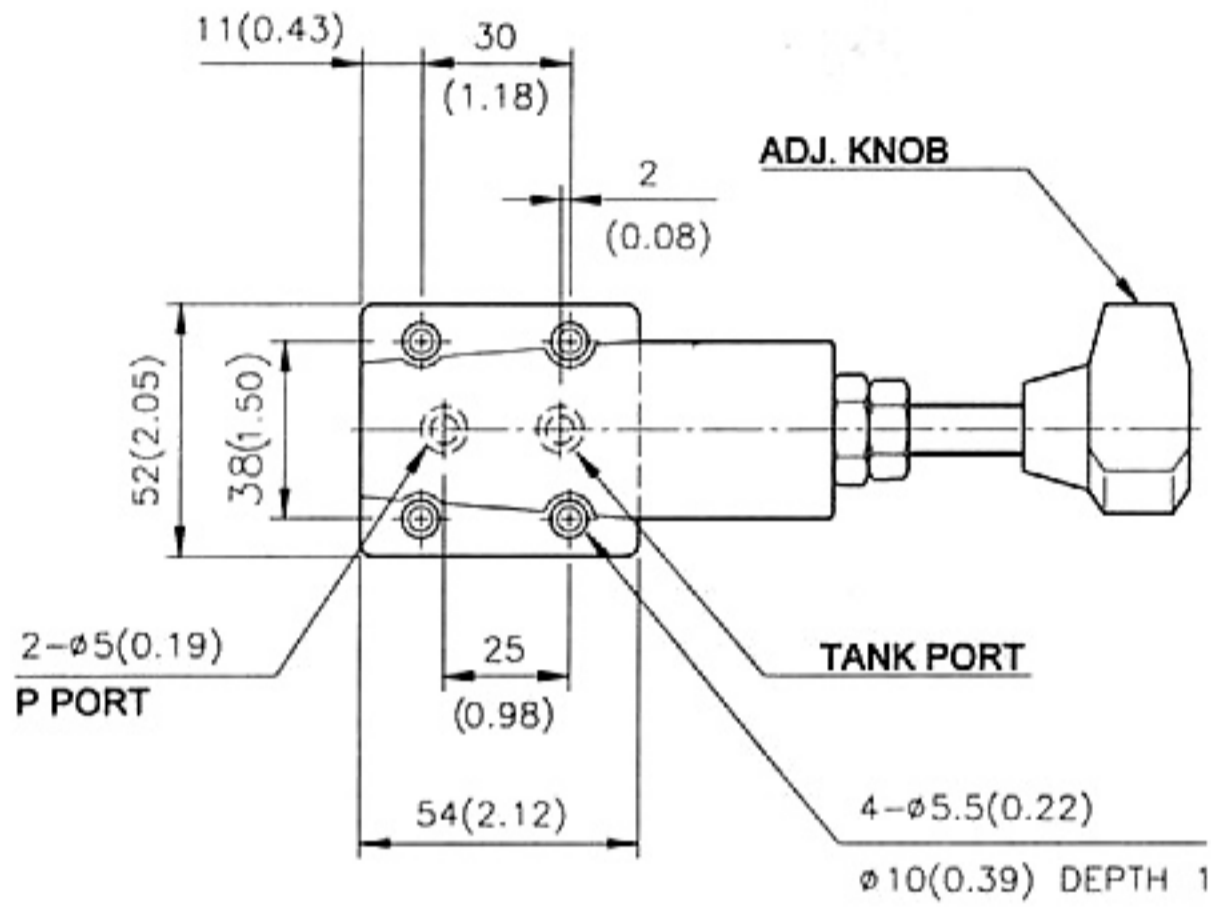
RF - G01 - 1 - 10



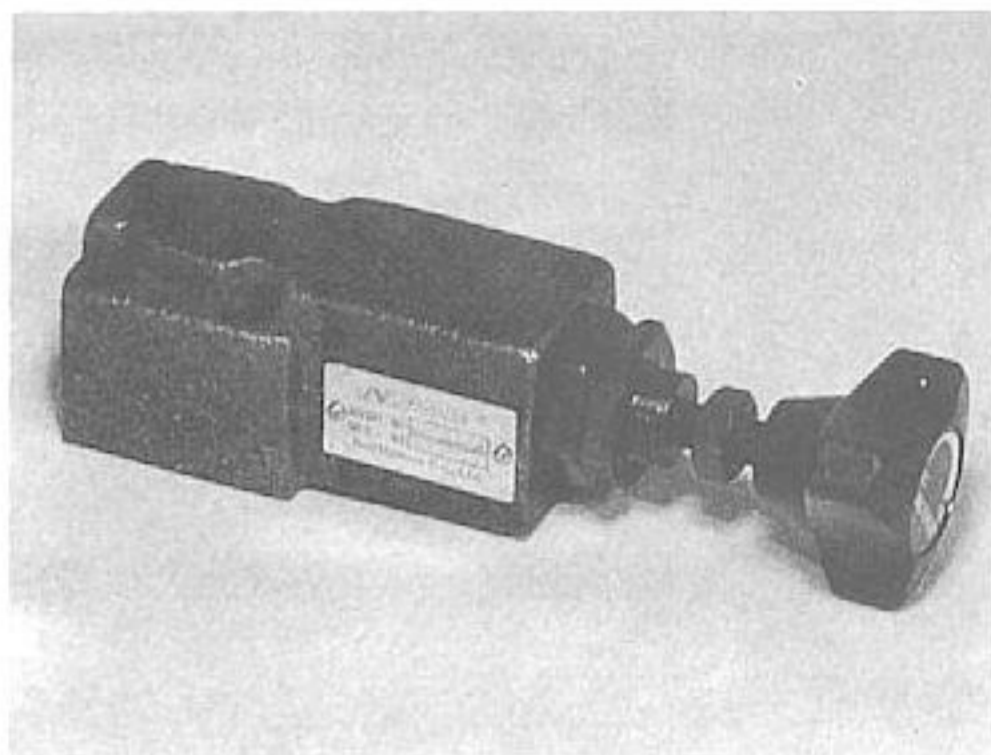
INSTALLATION DIMENSIONS

UNIT : mm(inch)
 WEIGHT : 1.5kgs(3.4lbs)

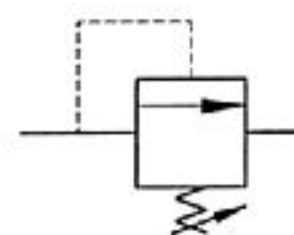
RF-G01



PRESSURE CONTROLS
DIRECT TYPE RELIEF VALVE



SYMBOL

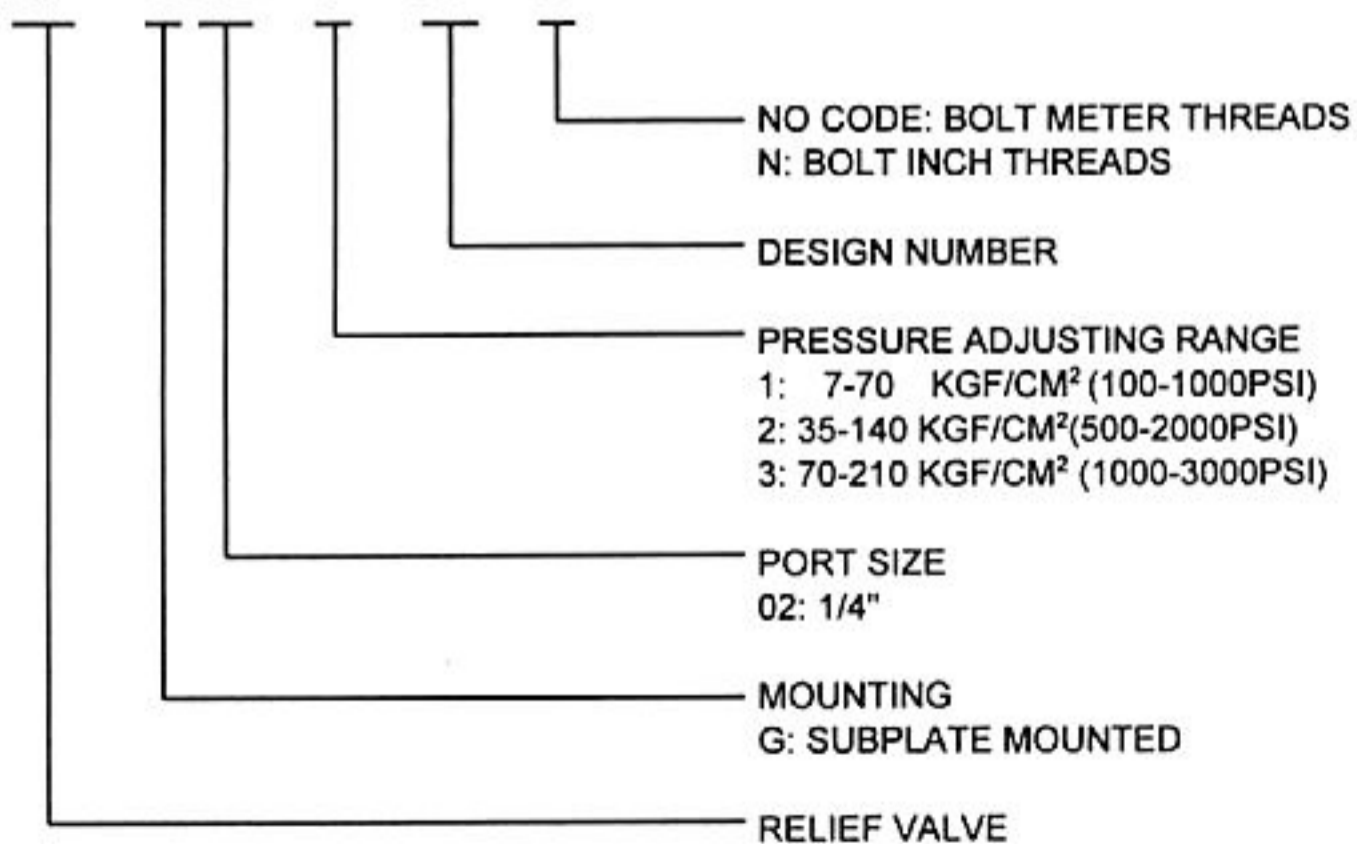


SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ² (PSI)	PRESSURE ADJ. RANGE KGF/CM ² (PSI)	RATE FLOW LPM(GPM)	BOLT METER(INCH)
RF-G02	210(3000)	1: 7-70(100-1000)	16(4.2)	M5x40L 4 PCS (#10-24UNC-1 1/2")
		2: 35-140(500-2000)		
		3: 70-210(1000-3000)		

HOW TO ORDER

RF - G02 - 1 - 10 - N

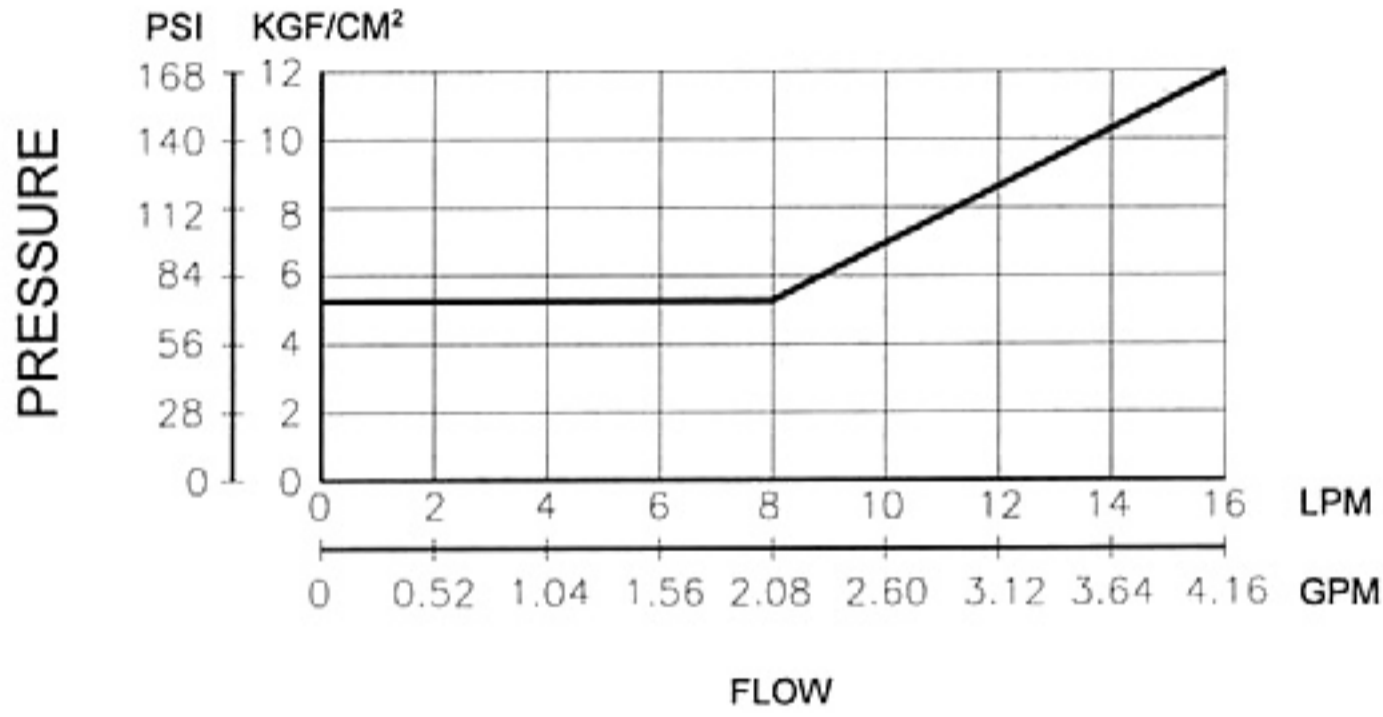




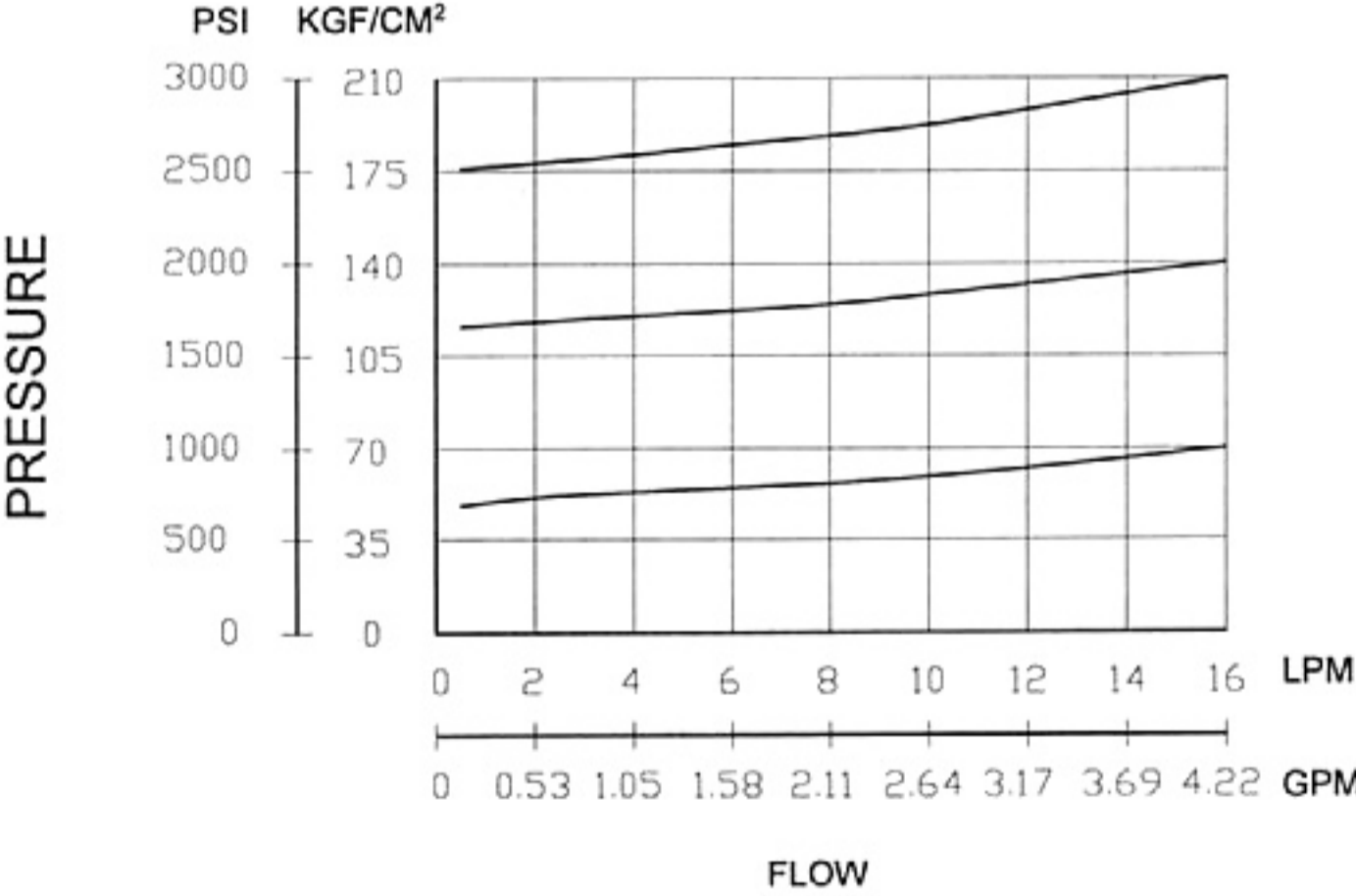
PERFORMANCE CURVES

TEST FLUID VISCOSITY : 35 CST (175 SSU)
TEST TEMPERATURE : 50°C (122°F)

Min. Adj. PRESSURE



NOMINAL OVERRIDE

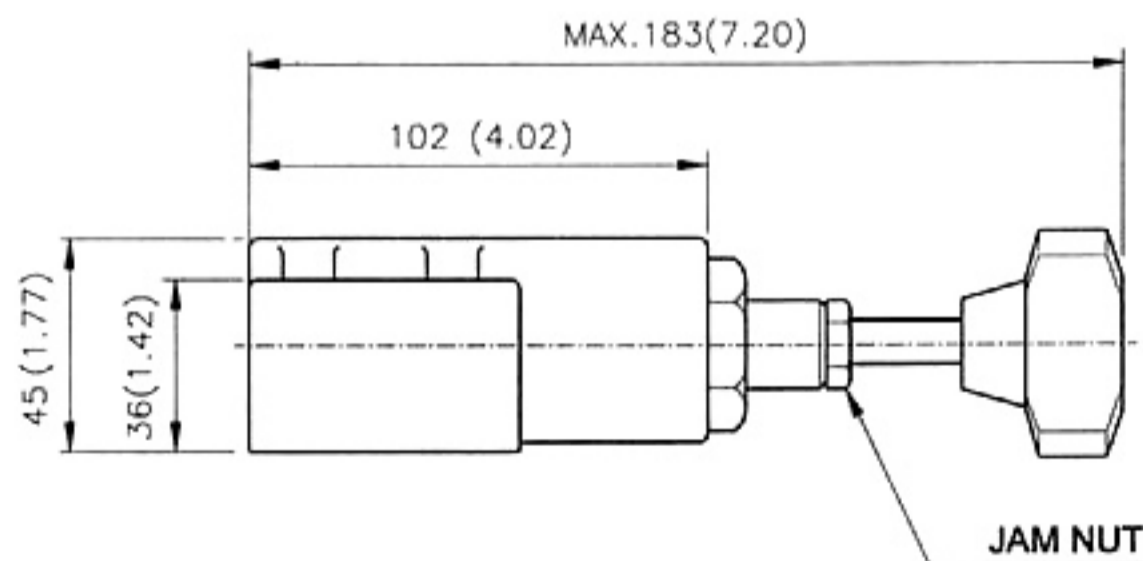
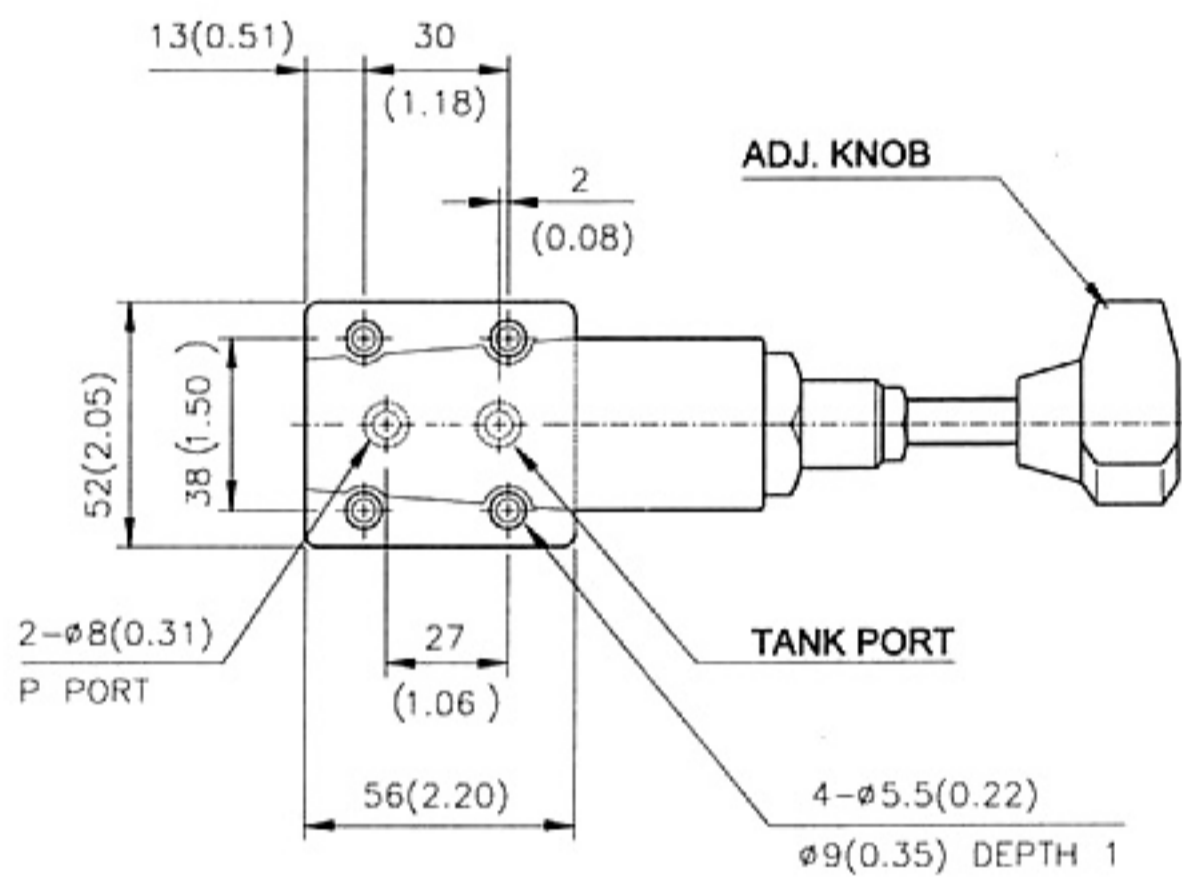


PRESSURE CONTROLS
DIRECT TYPE RELIEF VALVE

INSTALLATION DIMENSIONS

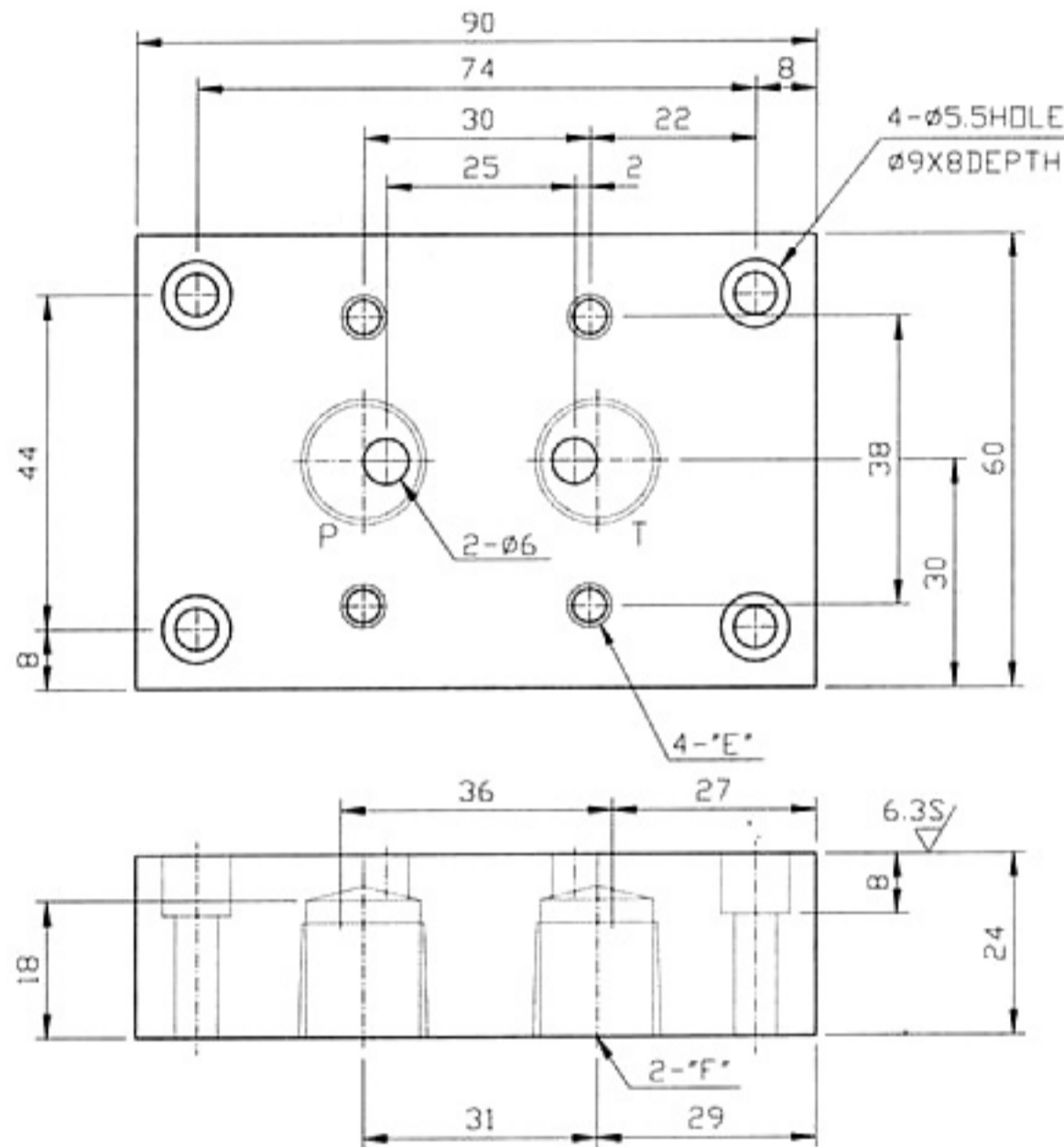
UNIT : mm(inch)
WEIGHT : 1.5kgs(3.4lbs)

RF-G02



INSTALLATION DIMENSIONS

UNIT : mm(inch)

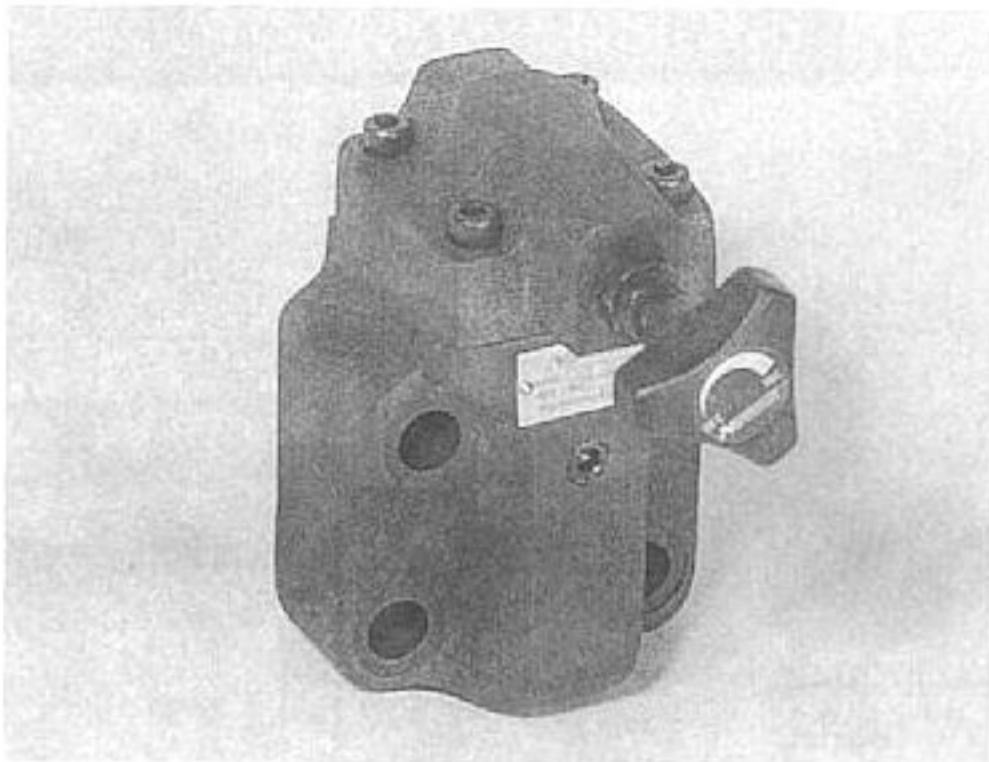


SUBPLATE FOR RF-G01 & RF-G02 SERIES

MODEL	PARTS No.	E	F
MF-02-02	61002259	M5x08Px12L	1/4PT
MF-02-02-N	61002260	#10-24UNCx12L	1/4NPT
MF-02-03	61002261	M5x08PX12L	3/8PT
MF-02-03-N	61002262	#10-24UNCx12L	3/8NPT

PRESSURE CONTROLS

PILOT OPERATED RELIEF VALVE

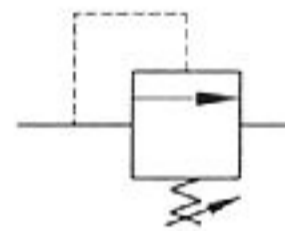


FEATURES

- RF series relief valve is designed on the theory of differential pressure created by flow across the orifice of the balance piston. This differential pressure acts to open the piston against the spring, permitting enough fluid vented to tank at the set pressure.
- Piston moves smoothly, and controlled by pilot pressure, provides stable pressure control and good repeatability.
- Special internal passage design keeps flow noise to minimum.

Remarks: NPT ports for RF-T series can be made by special order

SYMBOL

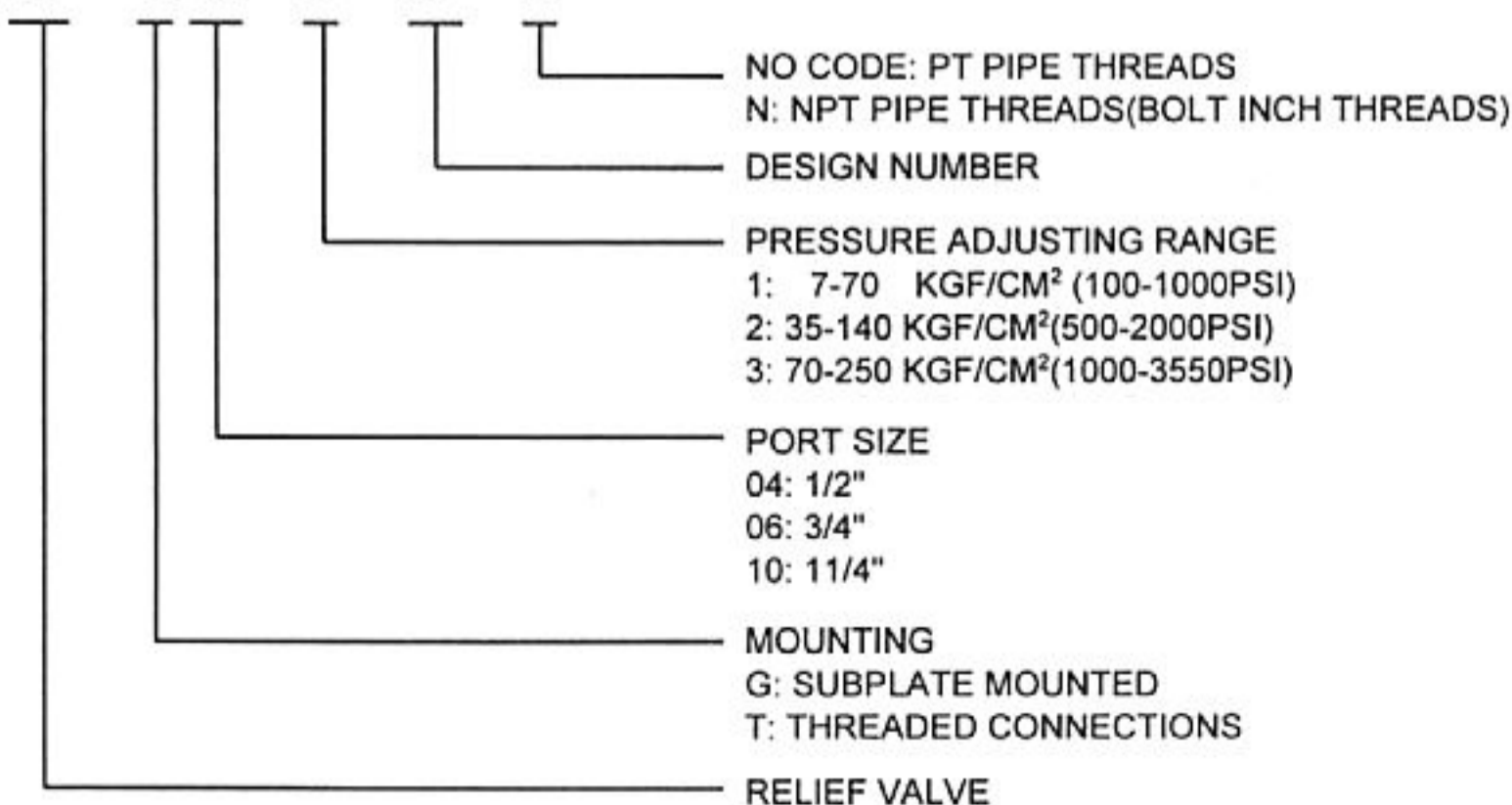


SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ² (PSI)	PRESSURE ADJ. RANGE KGF/CM ² (PSI)	MAX. FLOW LPM(GPM)	MOUNTED BOLD(FOR G TYPE) METER(INCH)
RF-*04	250 (3550)	1:7-70(100-1000)	100 (26.4)	M12x70L(1/2"-2 3/4")2PCS M12x90L(1/2"-3 1/2") 2PCS
RF-*06		2:35-140(500-1000)	200 (52.8)	M16x60L(5/8"-2 1/4") 2PCS M16x80L(5/8"-3 1/4") 2PCS
RF-*10		3:70-250(1000-3550)	400 (105.6)	M20x70L(3/4"-2 3/4") 2PCS M20x90L(3/4"-3 1/2") 2PCS

HOW TO ORDER

RF - G06 - 3 - 30 - N





PERFORMANCE CURVES

TEST FLUID VISCOSITY : 35 CST (175 SSU)

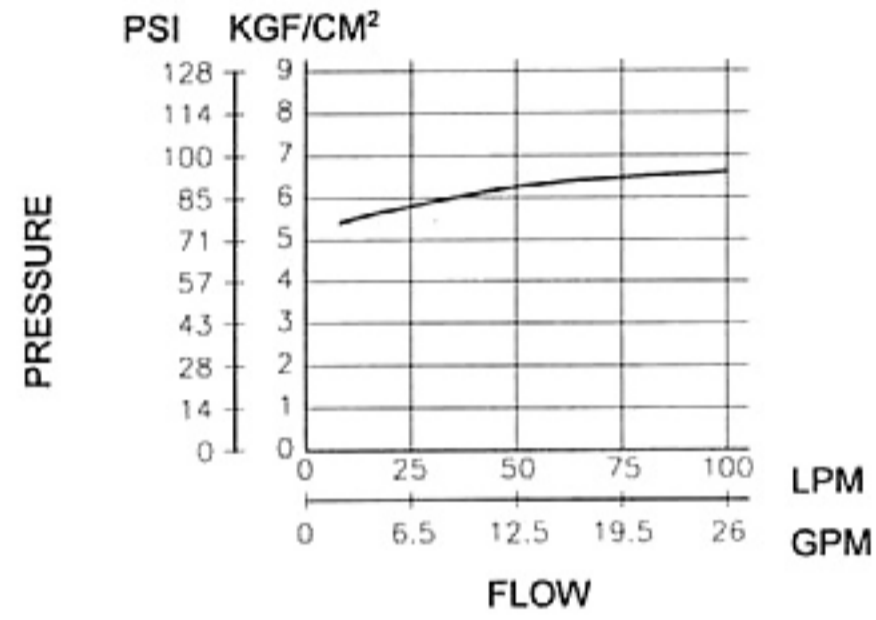
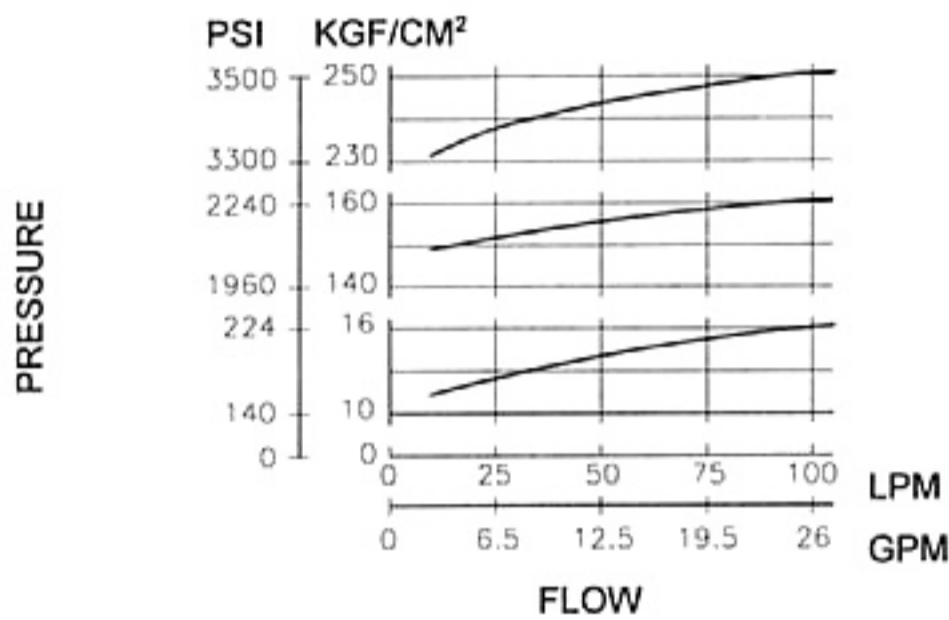
TEST TEMPERATURE : 50° C (122° F)

NOMINAL OVERRIDE

Min. Adj. PRESSURE

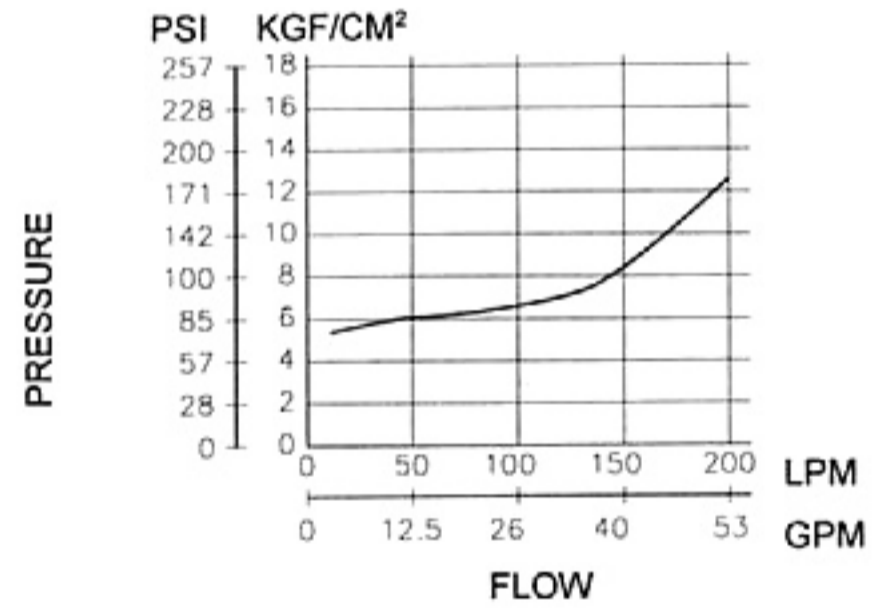
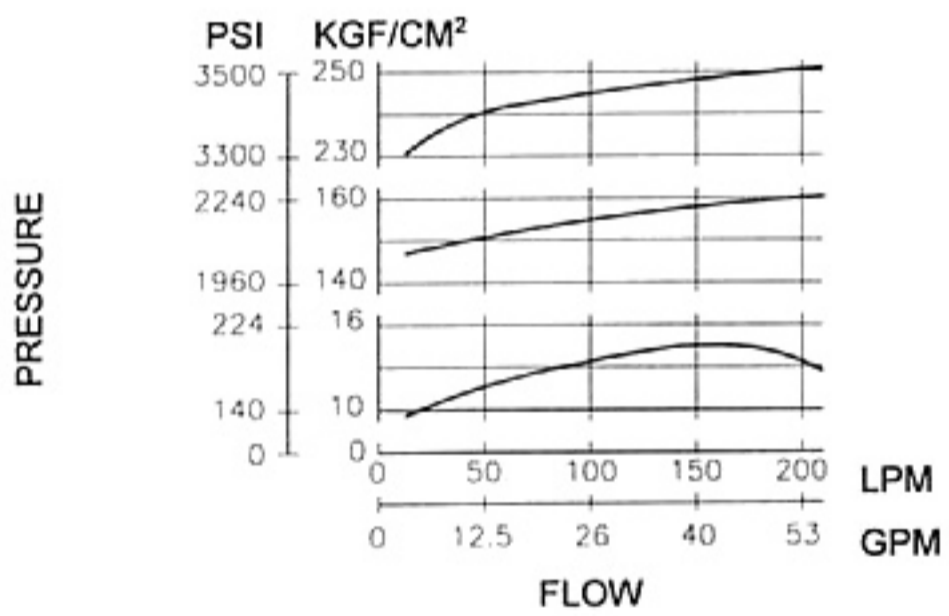
RF-G04, RF-T04

RF-G04, RF-T04



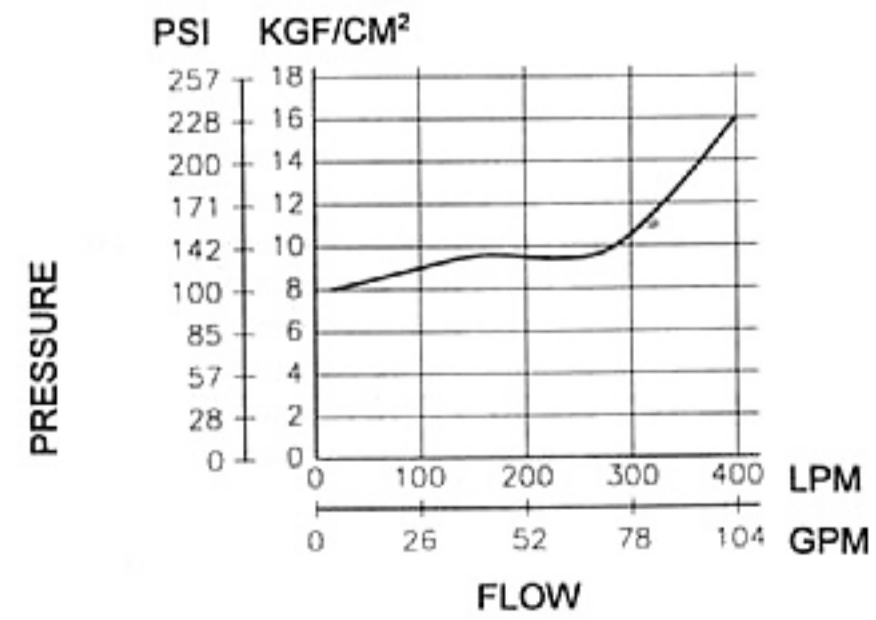
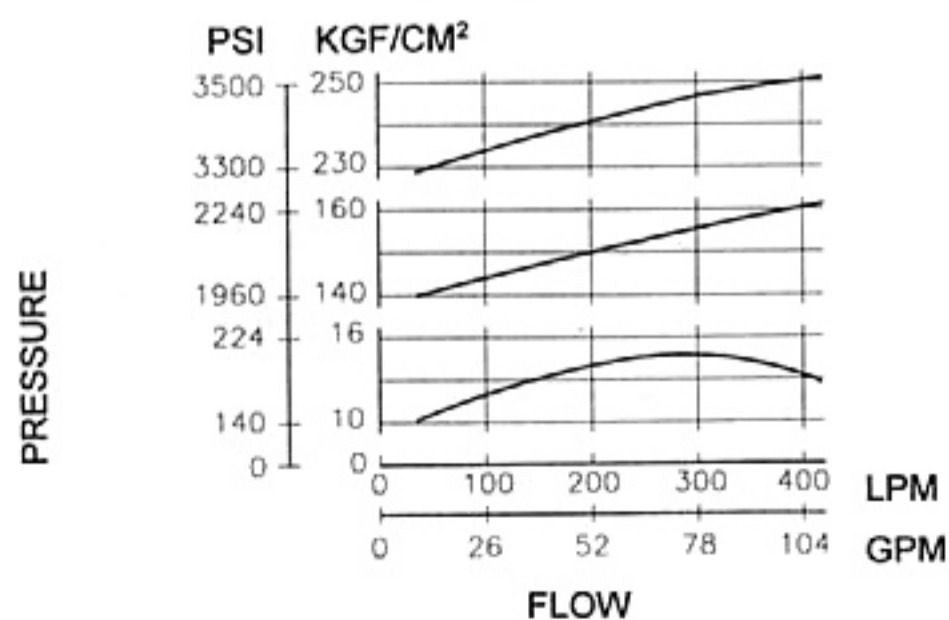
RF-G06, RF-T06

RF-G06, RF-T06



RF-G10, RF-T10

RF-G10, RF-T10



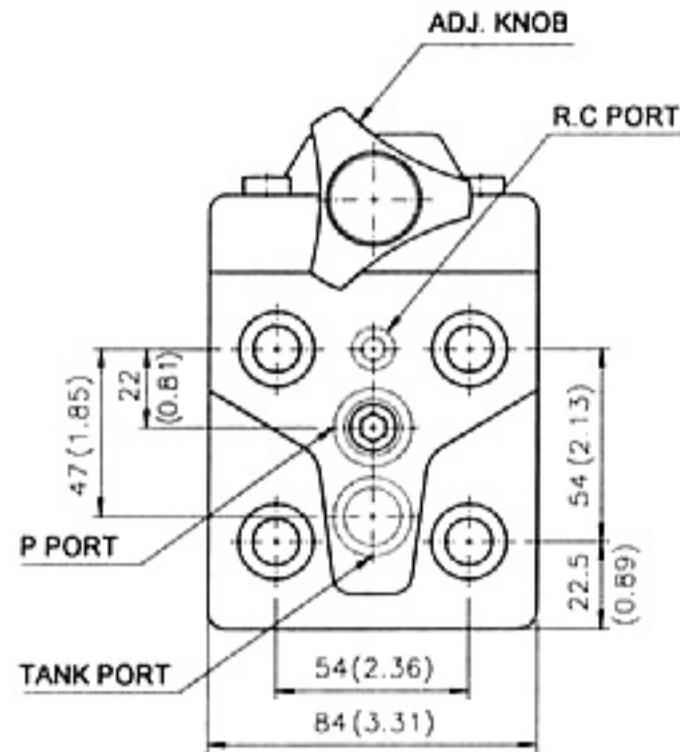
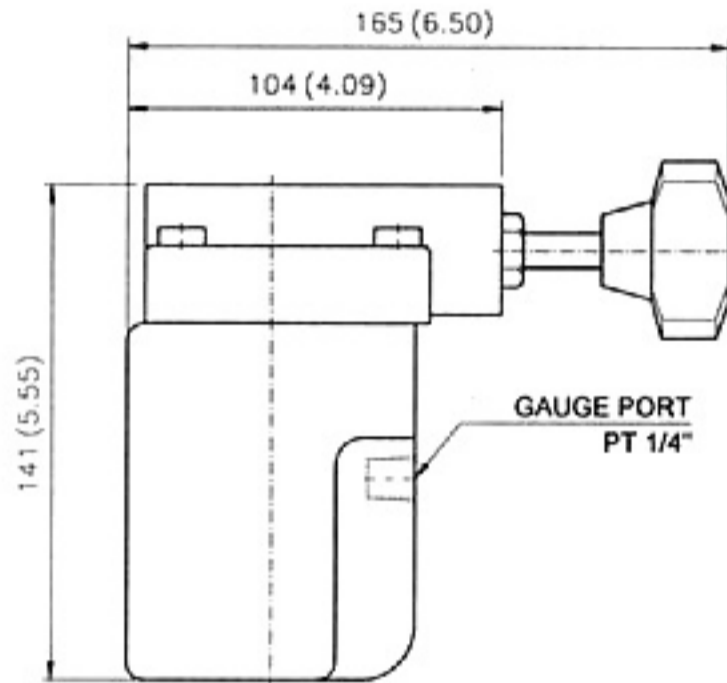
PRESSURE CONTROLS
PILOT OPERATED RELIEF VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

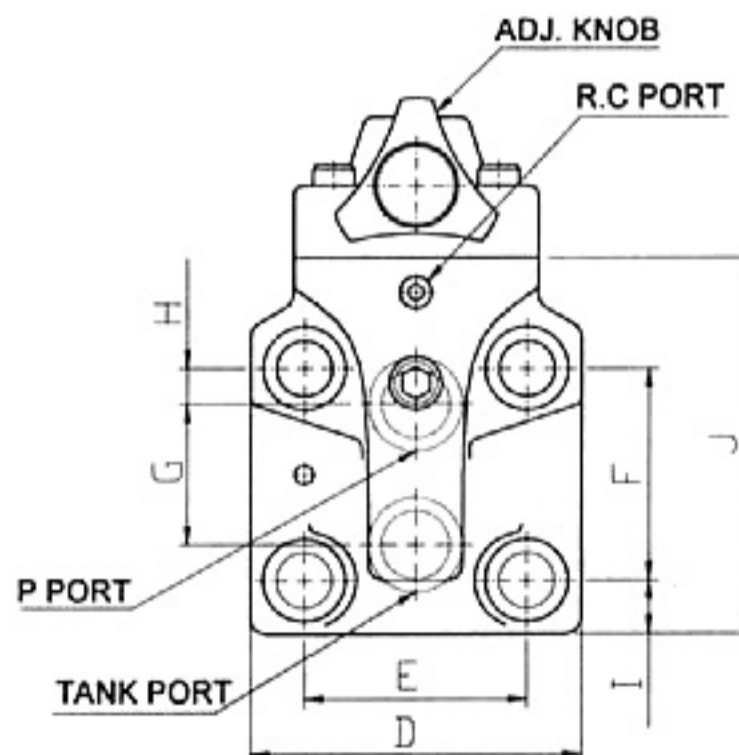
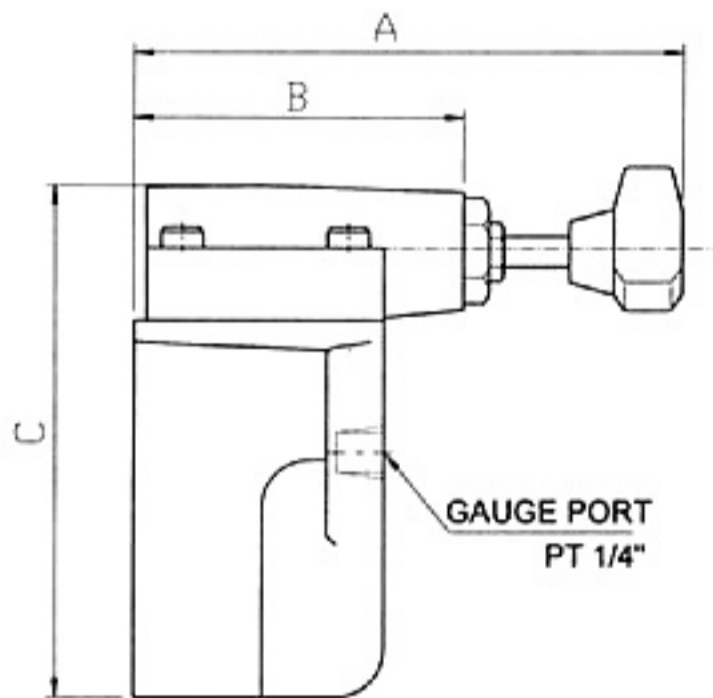
RF-G04

RF-G04 : ISO 6264-AR-06-2-A
 WEIGHT 5.5kgs(12.1lbs)



RF-G06/10

06 : ISO 6264-AS-08-2-A
 10 : ISO 6264-AT-10-2-A



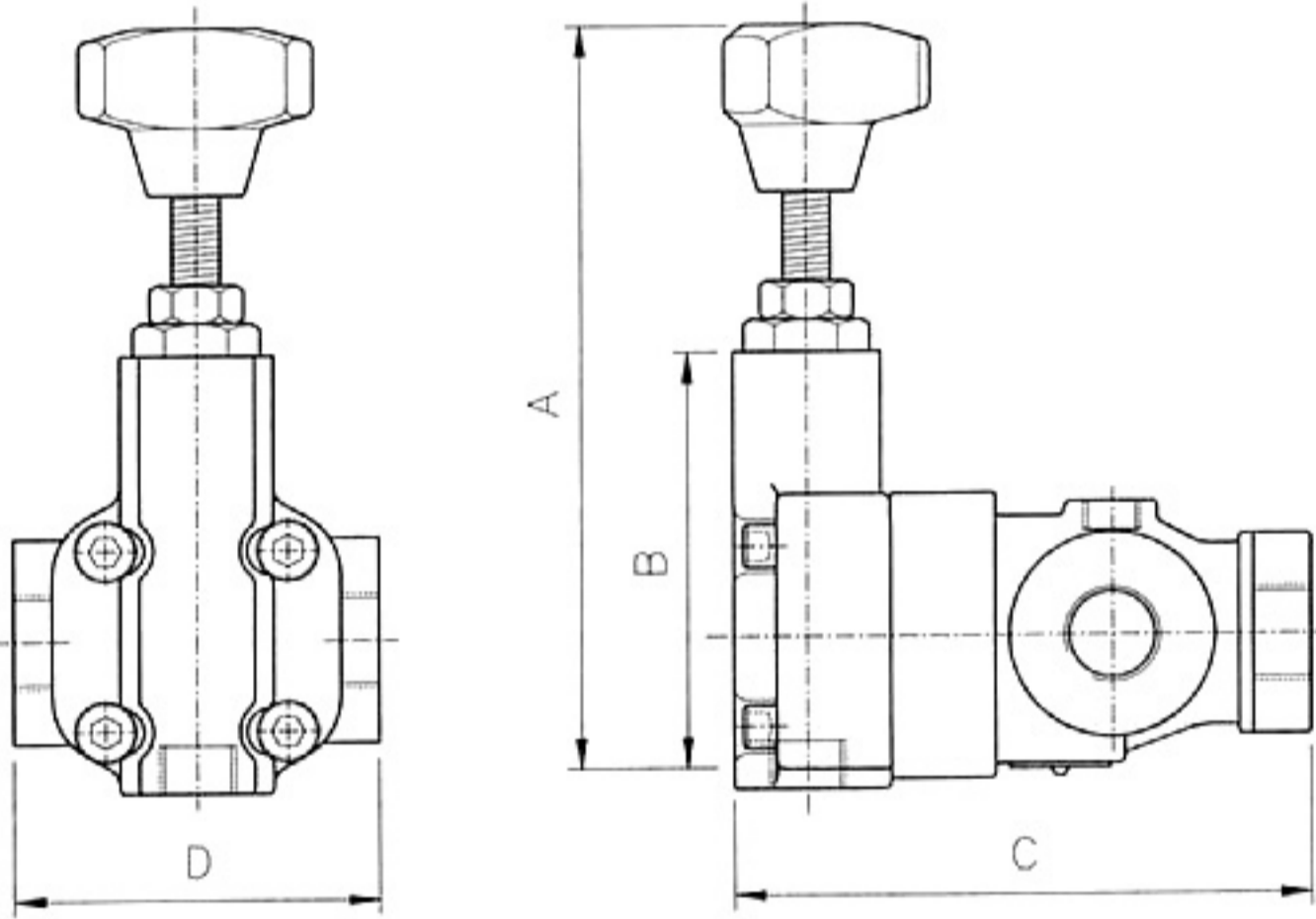
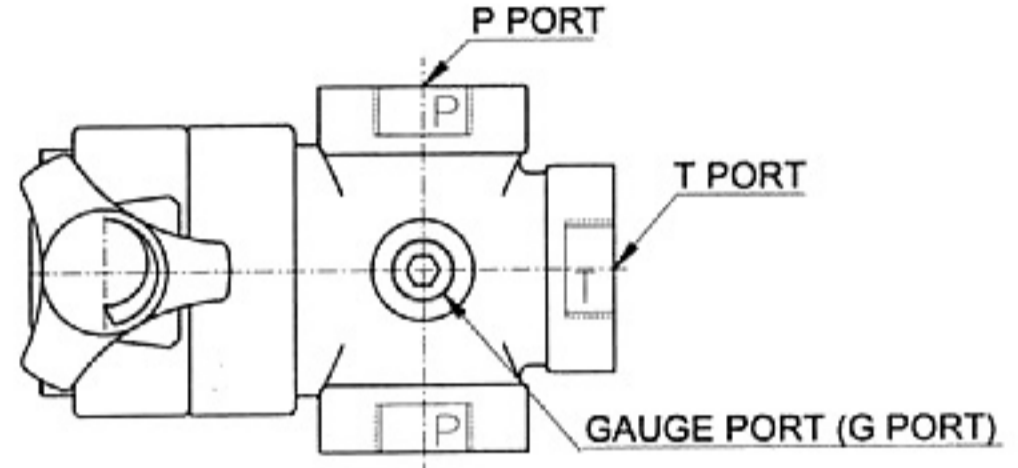
MODEL	A	B	C	D	E	F	G	H	I	J	WEIGHT	
											KGS	LBS
RF-G06	175 (6.89)	104 (4.09)	160 (6.30)	104 (4.09)	70 (2.76)	66.6 (2.62)	44.1 (1.74)	11.1 (1.74)	19.5 (.076)	122 (4.80)	6.7	14.7
RF-G10	184 (7.24)	120 (4.72)	195 (7.68)	125 (4.92)	82 (3.23)	88.9 (3.50)	63.6 (2.50)	12.7 (0.50)	18.5 (0.73)	150 (5.91)	10.1	22.1



INSTALLATION DIMENSIONS

UNIT : mm(inch)

RF-T0*



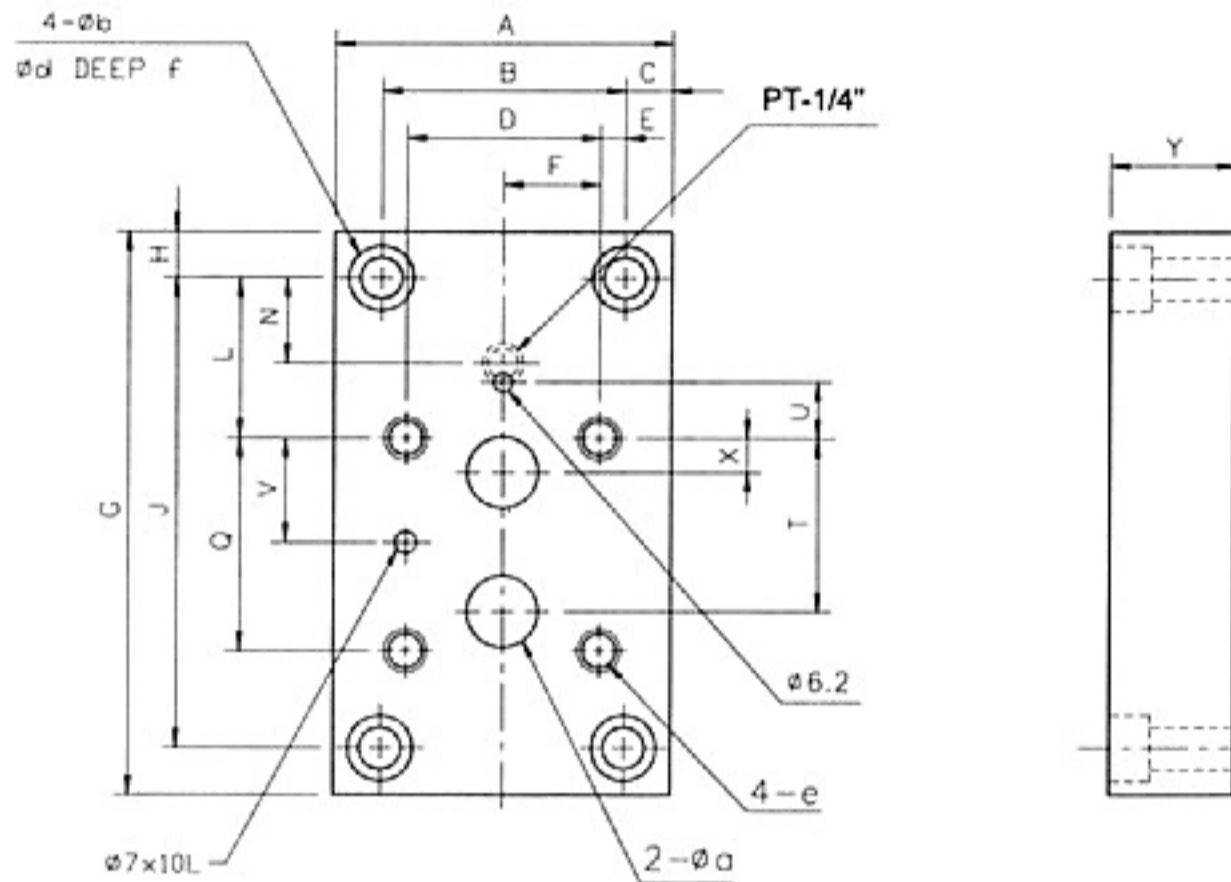
MODEL	A	B	C	D	P PORT	T PORT	G PORT	WEIGHT	
								KGS	LBS
RF-T04 SERIES	MAX. 142 (5.59)	92 (2.02)	111 (4.37)	84.5 (3.33)	PT 1/2"	PT 1/2"	PT 1/4"	3.4	7.5
RF-T06 SERIES	MAX. 148 (5.83)	102 (4.02)	140 (5.51)	103 (4.05)	PT 3/4"	PT 3/4"	PT 1/4"	5.3	11.7
RF-T10 SERIES	151 MAX. (5.94)	120 (4.72)	183 (7.20)	120 (4.72)	PT 1 1/4"	PT 1 1/4"	PT 1 1/4"	8.5	18.7

PRESSURE CONTROLS
PILOT OPERATED RELIEF VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

MF-***



MODEL	A	B	C	D	E	F	G	H
MF-04	86 (3.39)	60 (2.36)	13 (0.51)	53.8 (2.12)	3.1 (0.12)	26.9 (1.06)	149 (5.87)	13 (0.51)
MF-06	108 (4.25)	78 (3.07)	15 (0.59)	70 (2.76)	4 (0.16)	35 (1.38)	180 (7.09)	15 (0.59)
MF-10	126 (4.96)	94 (3.70)	16 (0.63)	82.6 (3.25)	5.7 (0.22)	41.3 (1.63)	227 (8.94)	16 (0.63)

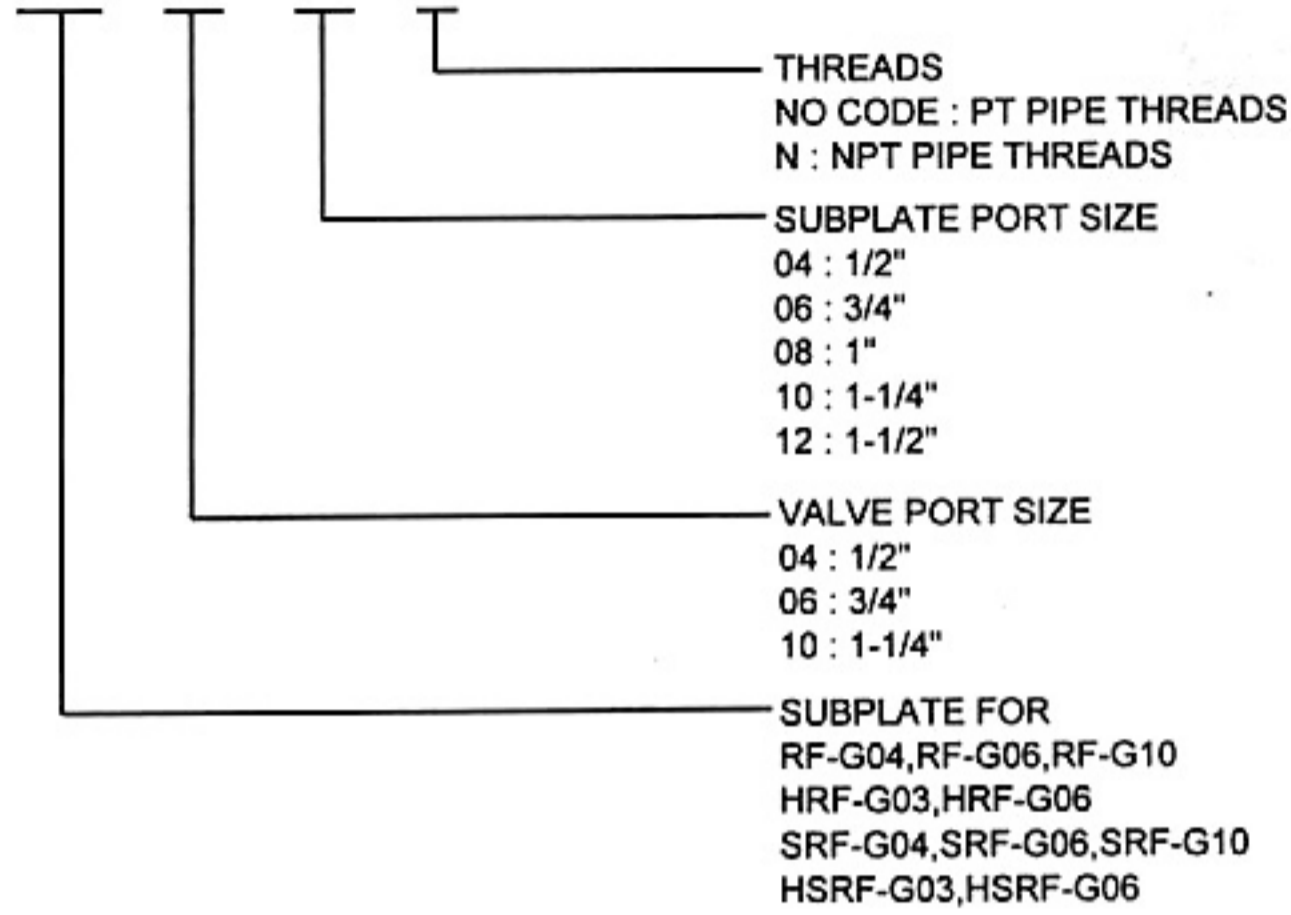
MODEL	J	L	N	Q	T	U	V	X
MF-04	123 (4.84)	32 (1.26)	26 (1.02)	53.8 (2.12)	47.5 (1.87)	0 (0.00)	22.1 (0.87)	22.1 (0.87)
MF-06	150 (5.91)	51 (2.01)	27.2 (1.07)	66.7 (2.63)	55.6 (2.19)	23.8 (0.94)	33.4 (1.31)	11.1 (0.43)
MF-10	195 (7.68)	62 (2.44)	30.2 (1.19)	88.9 (3.5)	76.2 (3.00)	31.8 (1.25)	44.5 (5.44)	12.7 (0.50)

MODEL	Y	a	b	d	e	f
MF-04	32 (1.26)	14.5 (0.57)	11 (0.43)	17.5 (0.69)	M12x20L 1/2-13UNCx20L	12 (0.47)
MF-06	40 (1.57)	23 (0.91)	13.5 (0.53)	21 (0.83)	M16x25L 5/8-11UNCx25L	12 (0.47)
MF-10	50 (1.97)	28 (1.10)	17.5 (0.69)	26 (1.02)	M20x28L 3/4-10UNCx28L	17 (0.67)



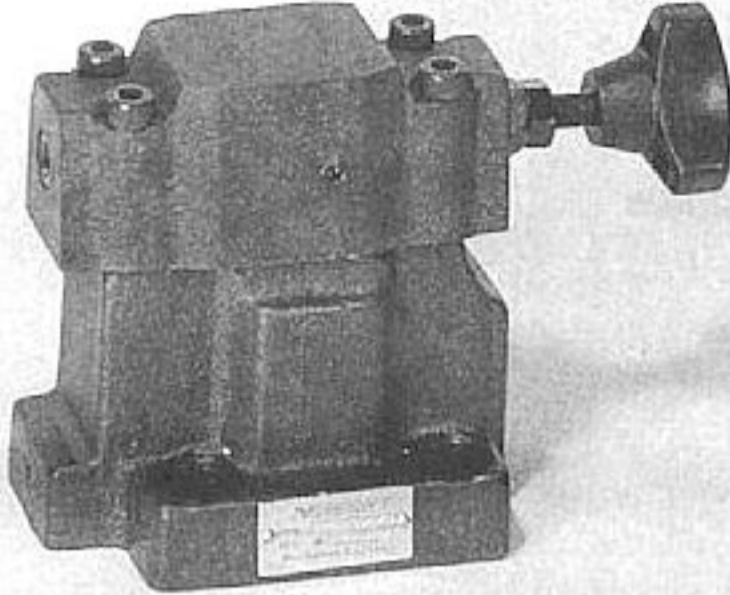
HOW TO ORDER

MF - 04 - 04 - N

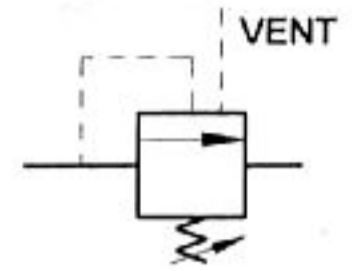


PRESSURE CONTROLS

LOW NOISE TYPE PILOT OPERATED RELIEF VALVE



SYMBOL



SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ²	MAX. FLOW LPM (GPM)	BOLT METER(INCH)
HRF-G03-*-10	250 (3500)	100 (25)	M12x40Lx4(1/2x1 3/5")
HRF-G06-*-10		200 (53)	M16x50Lx4(5/8x2")

HOW TO ORDER

HRF-G06-3-L-10-N

NO CODE: BOLT METER THREADS
N: BOLT INCH THREADS

DESIGN NUMBER

DIRECTION OF KNOB
R : RIGHT(P PORT SIDE)
L : LEFT(T PORT SIDE)

PRESSURE ADJUSTING RANGE
1 : *-70 (*-1000PSI)
2 : *-140(*-2000PSI)
3 : *-250 (*-3500PSI)

PORT SIZE
03: 3/8"
06: 3/4"

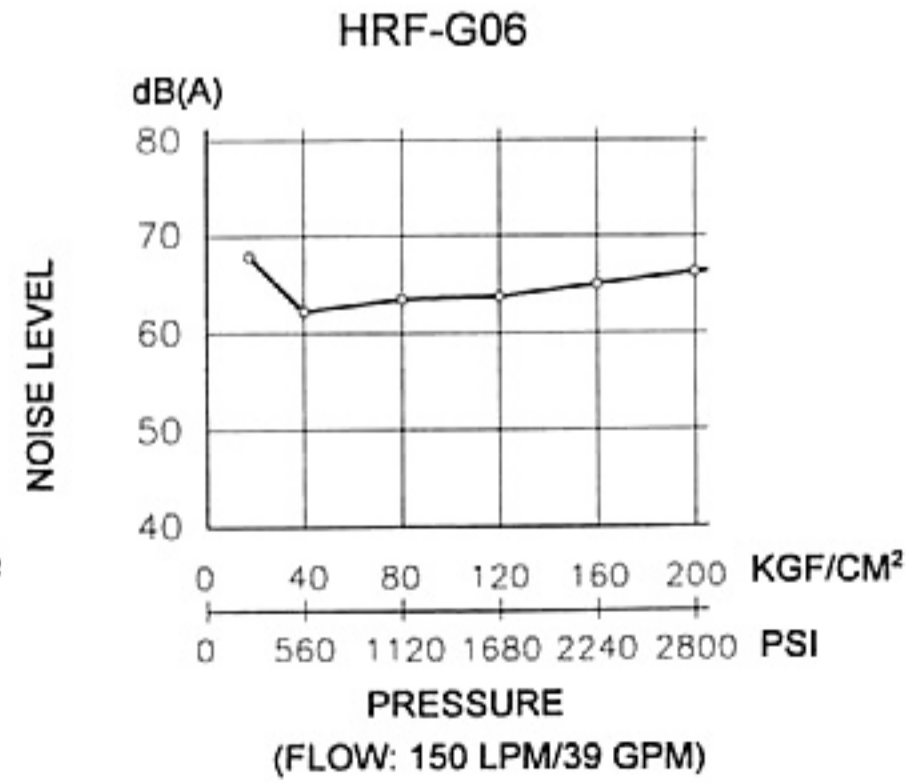
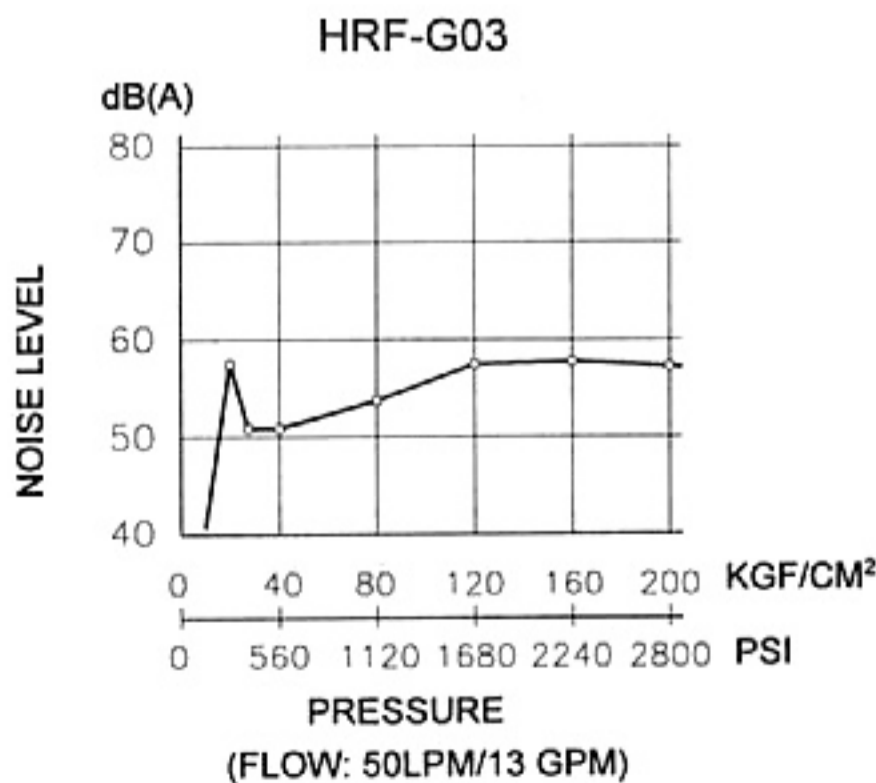
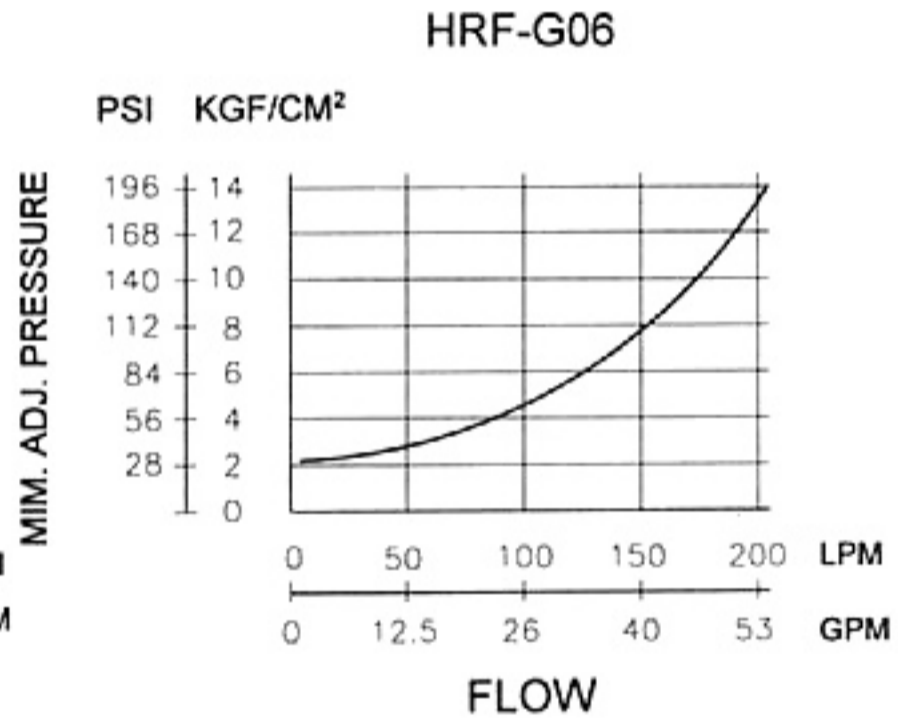
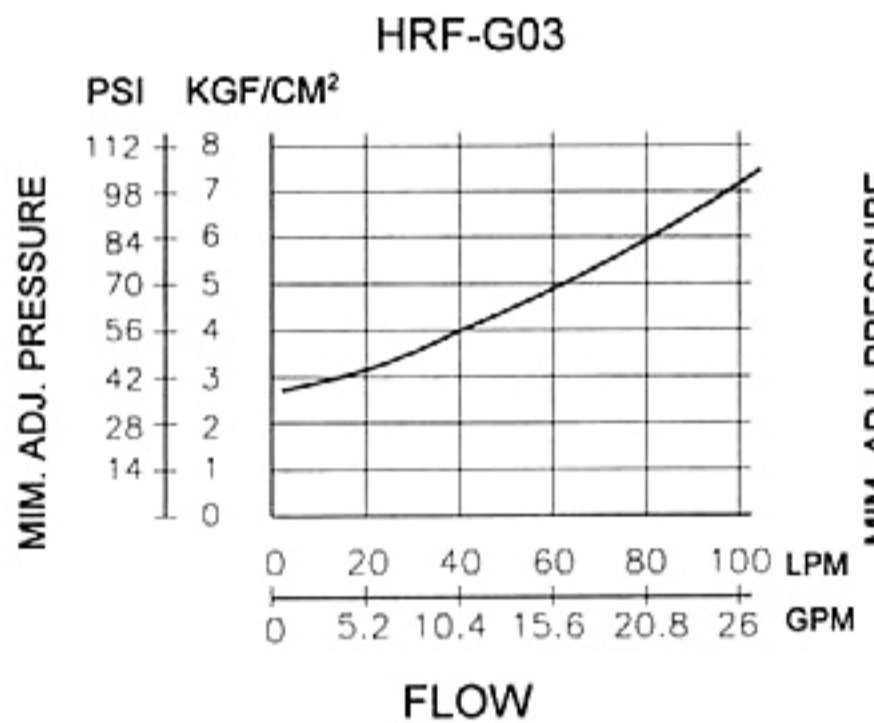
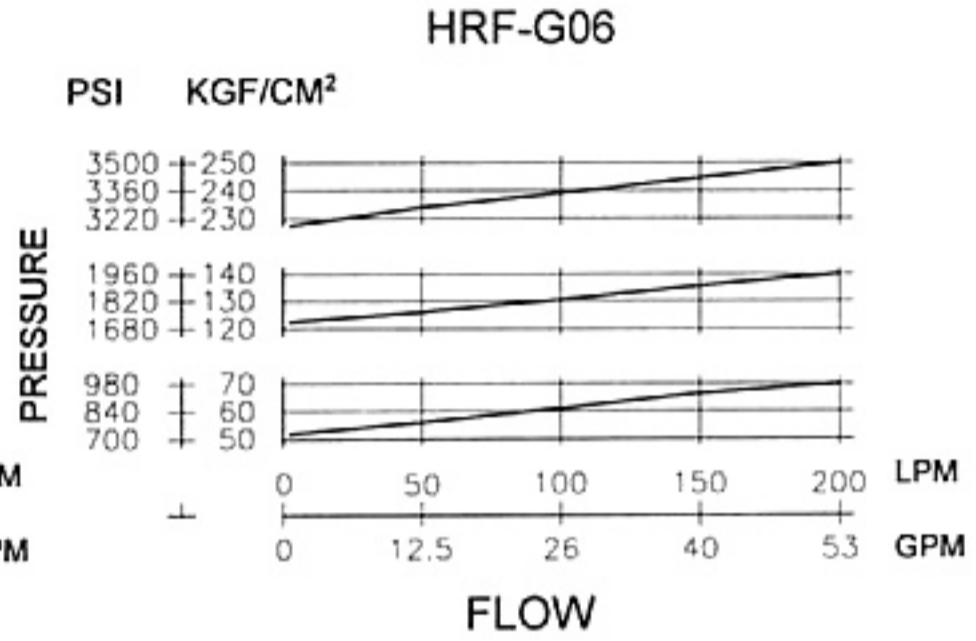
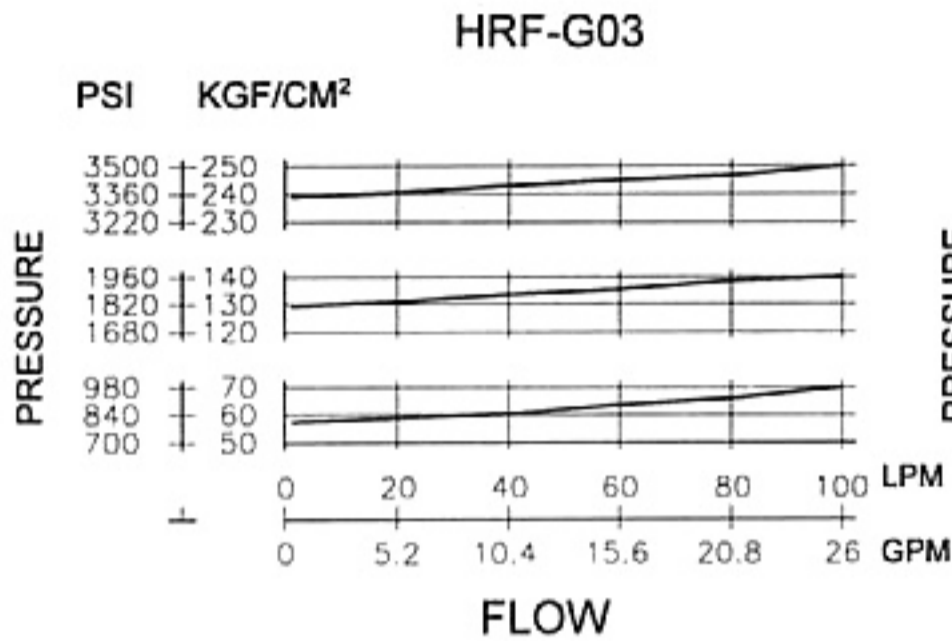
MOUNTING
G : SUBPLATE MOUNTED

LOW NOISE TYPE PILOT OPERATED RELIEF VALVES



PERFORMANCE CURVES

TEST CONDITIONS
VISCOSITY: 35 CST
TEMPERATURE: 50°C



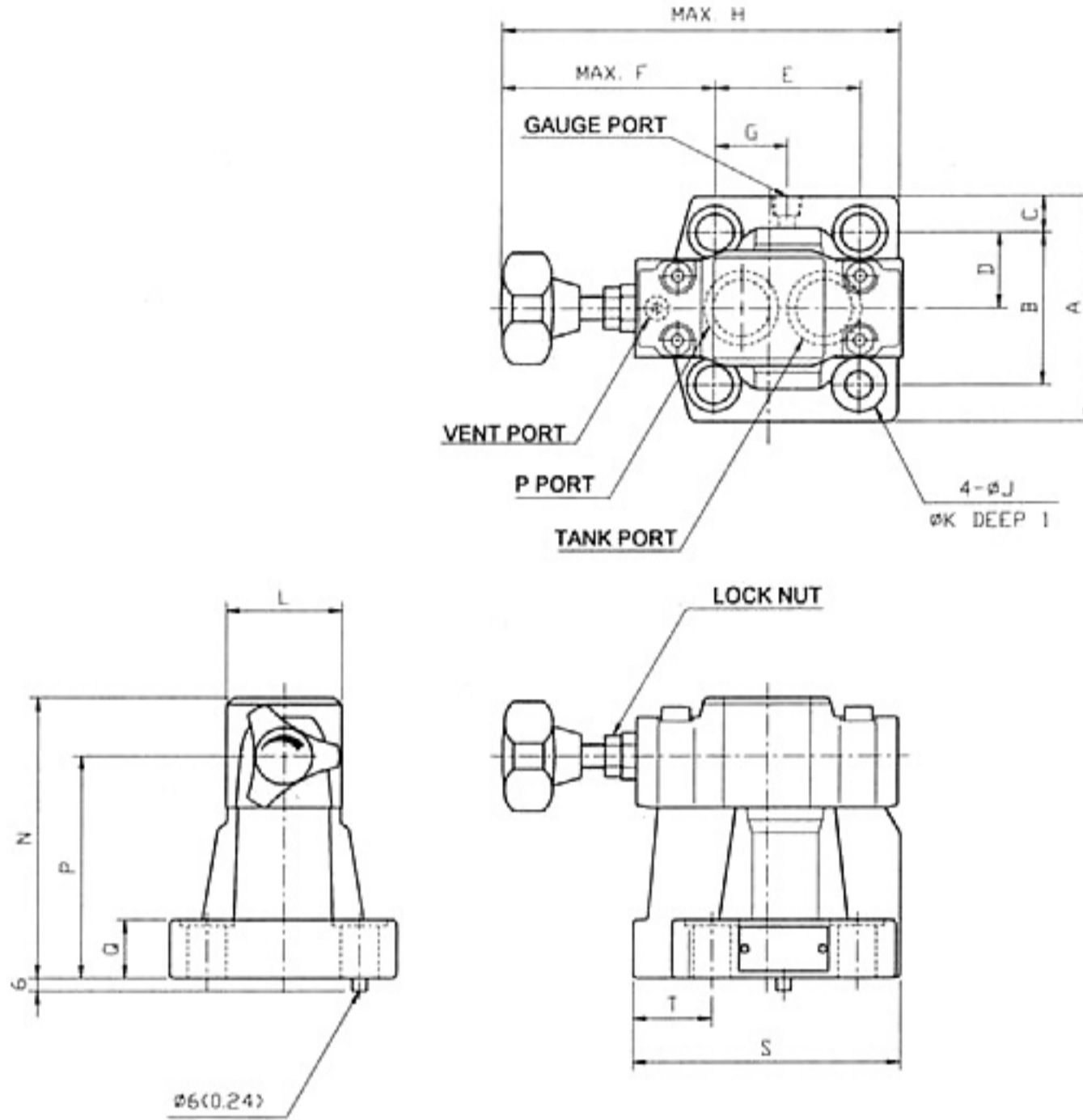
PRESSURE CONTROLS

LOW NOISE TYPE PILOT OPERATED RELIEF VALVE

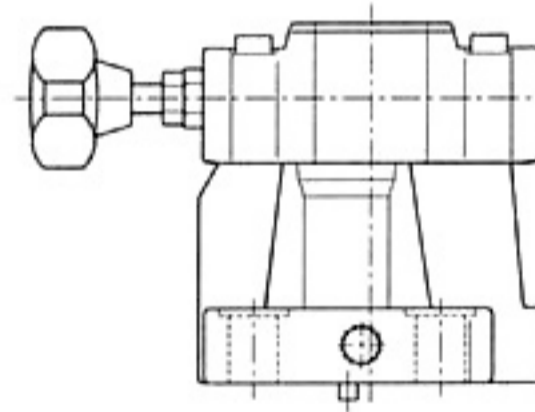
INSTALLATION DIMENSIONS

UNIT : mm(inch)

HRF-G03/G06-R

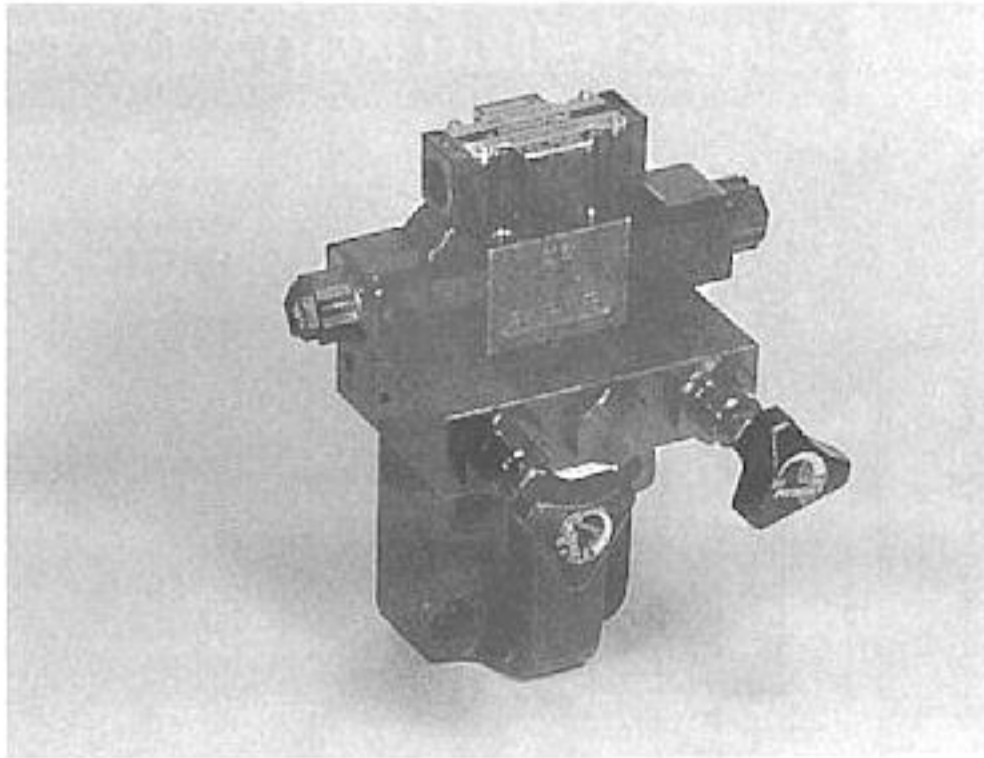


HRF-G03/G06-L



MODEL	A	B	C	D	E	F	G	H	J
HRF-G03	76(3)	53.8(2.12)	11.1(0.44)	26.9(1.06)	53.8(2.11)	113.5(4.47)	27(1.06)	171(6.73)	13.5(0.53)
HRF-G06	104(4.09)	70(2.76)	17(0.67)	35(1.38)	66.7(2.63)	98.8(3.89)	33.7(1.33)	171(6.73)	17.5(0.69)

MODEL	K	L	N	P	Q	S	T	SUBPLATE TYPE
HRF-G03	21(0.83)	51(2.01)	132(5.2)	104(4.09)	22(0.86)	106(4.17)	26(1.02)	MF-04
HRF-G06	25(0.98)	51(2.01)	132(5.2)	104(4.09)	27(1.06)	123(4.84)	36.5(1.44)	MF-06



FEATURES

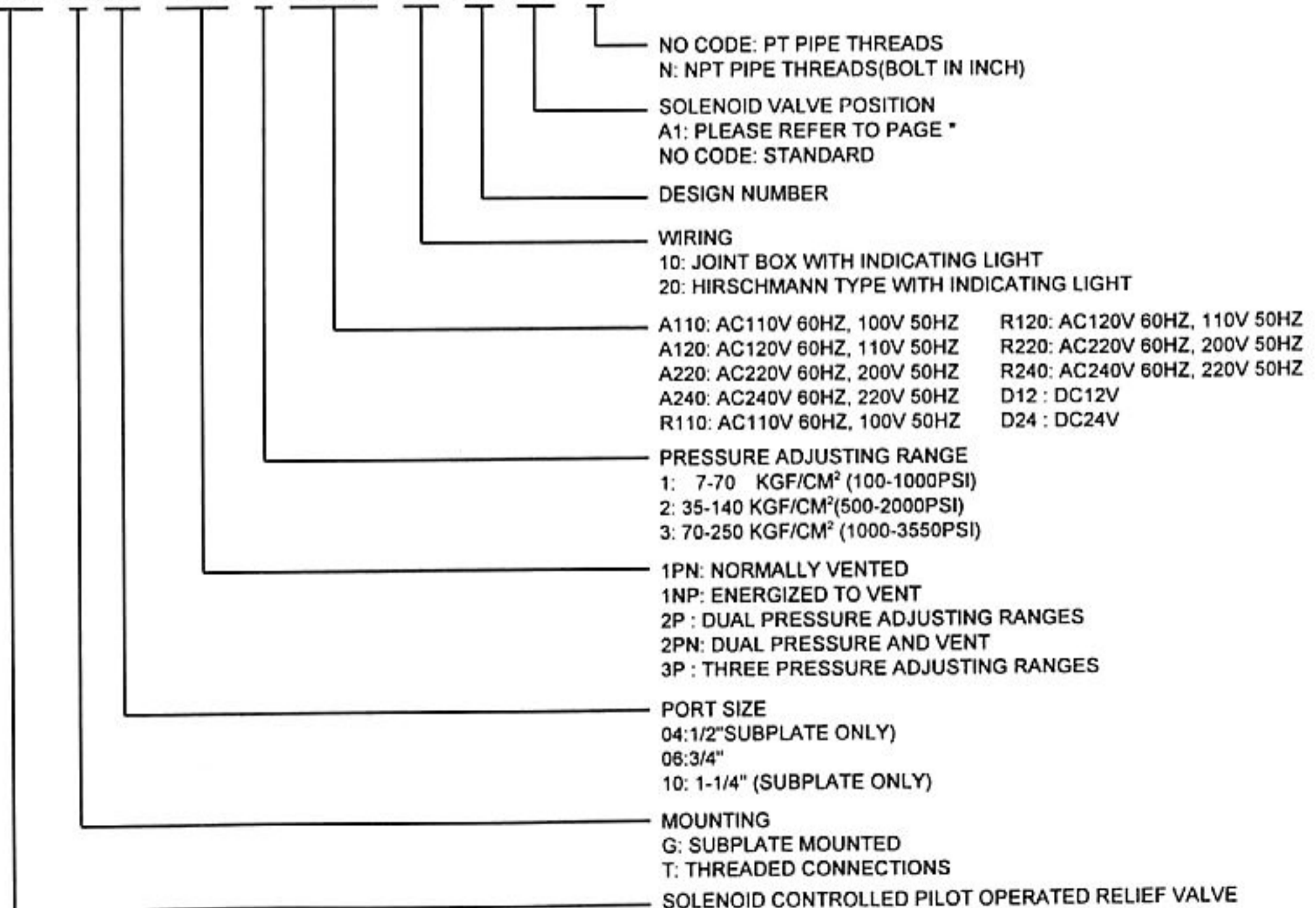
- The series of SRF-T/G valves are the combination of solenoid operated directional control valve and RF-G relief valve in one integrated body to provide a wide variety of pressure control possibilities. Solenoid control permits convenient electrical selection of system pressures. Selection for pressure or vent, either of two pressures, or two pressures and vent, or one of three pressures can be achieved by proper selection of the valves listed below.

SPECIFICATIONS

MODEL	MAX. PRESSURE	RATED FLOW	PRESSURE ADJ. RANGE
	KGF/CM ² (PSI)	LPM(GPM)	KGF/CM ² (PSI)
SRF-G04	250 (3500)	100(26.4)	1: 7-70(100-1000)
SRF-G/T06		200(52.8)	2: 35-140(500-2000)
SRF-G10		400(105.6)	3: 70-250(1000-3550)

HOW TO ORDER

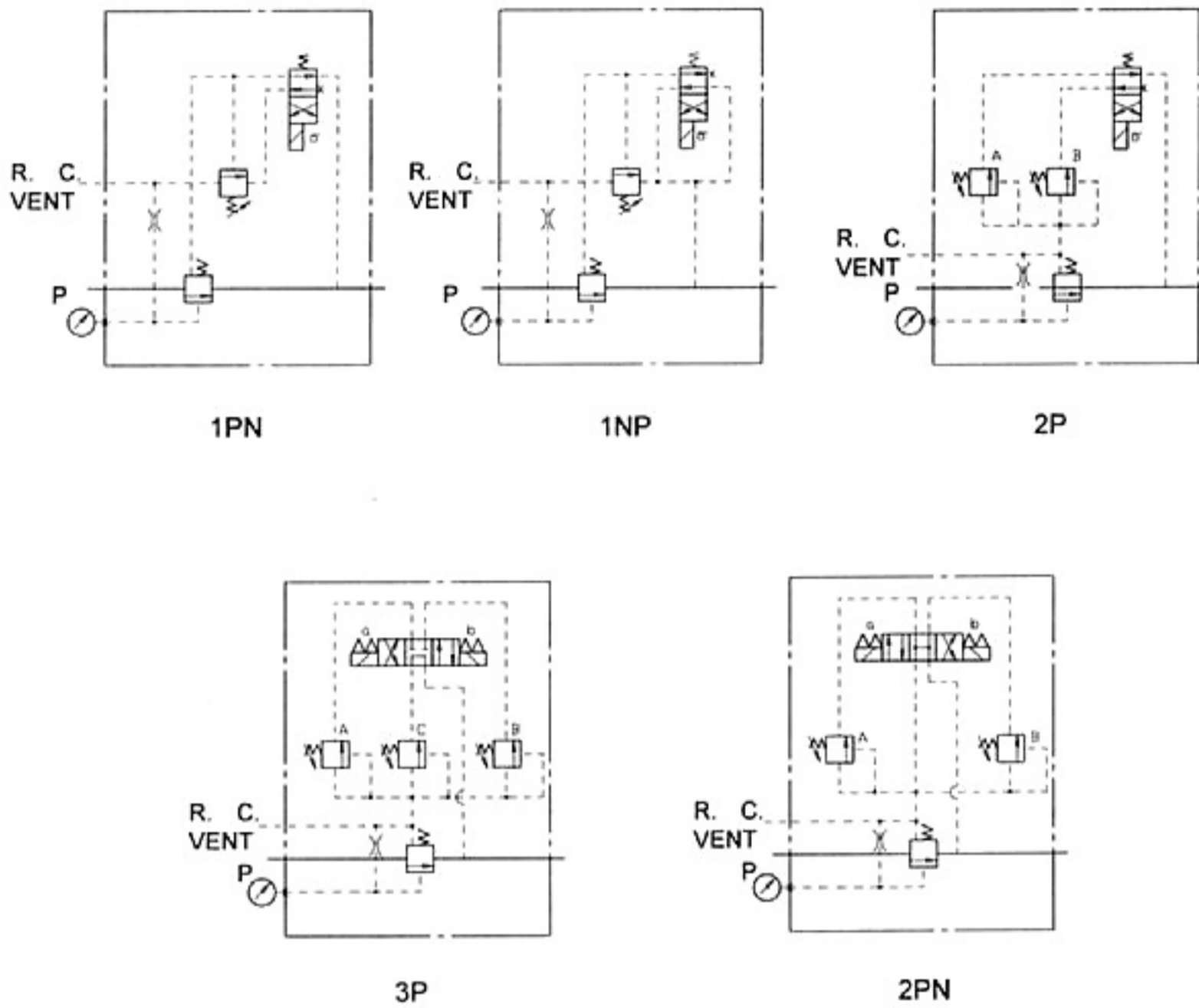
SRF-G06-1PN-1-A220-10-30-A1-N



PRESSURE CONTROLS

SOLENOID CONTROLLED RELIEF VALVE

SYMBOLS & FUNCTION TABLES



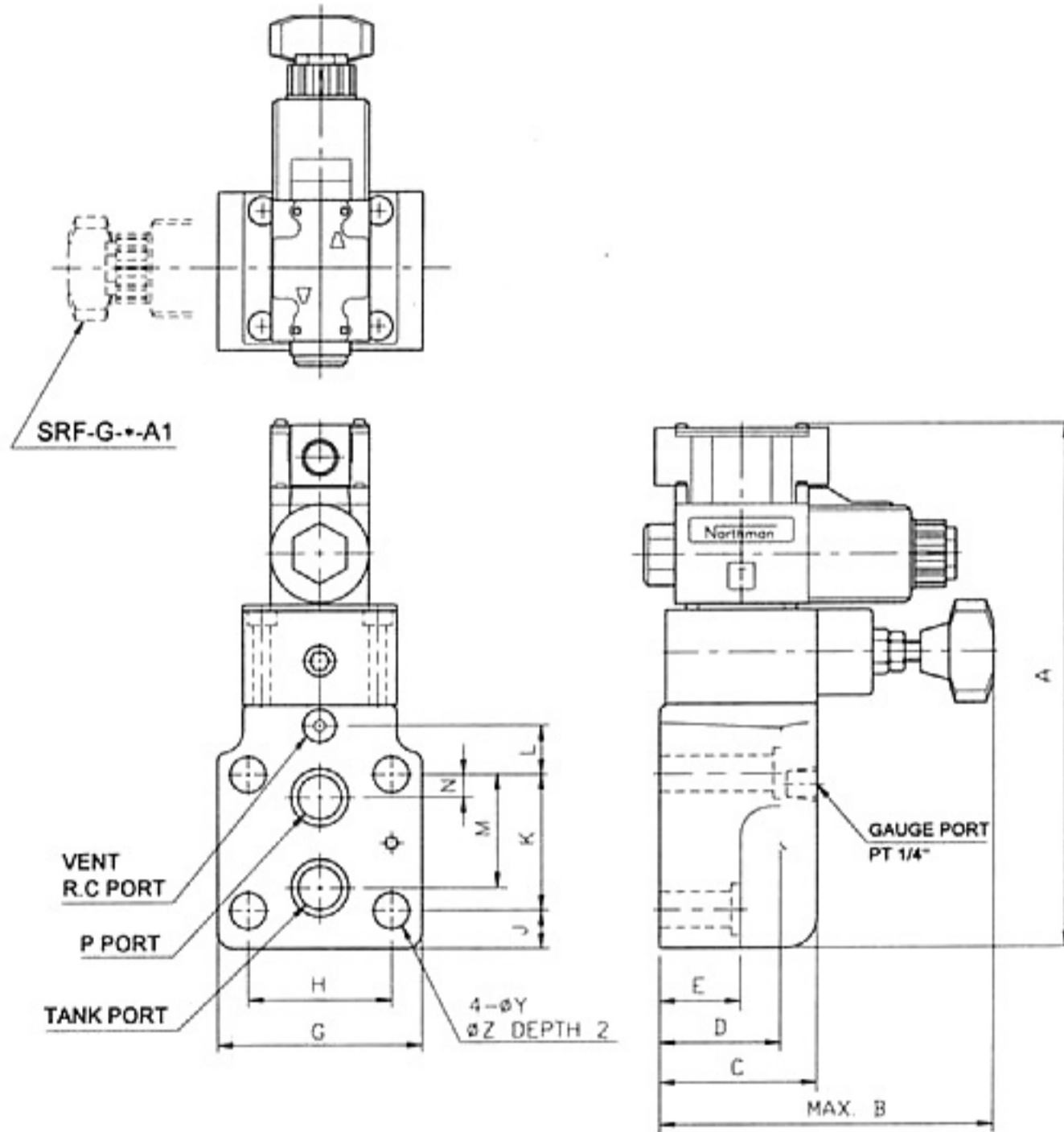
MODEL	INPUT		OUTPUT
	SOL b	SOL a	
1PN	OFF	NONE	VENTED
	ON		ADJUSTABLE PRESSURE
1NP	NONE	OFF	ADJUSTABLE PRESSURE
		ON	VENTED
2P	OFF	NONE	ADJUSTABLE PRESSURE AT A
	ON		ADJUSTABLE PRESSURE AT B
2PN	OFF	OFF	VENTED
	ON	OFF	ADJUSTABLE PRESSURE AT A
	OFF	ON	ADJUSTABLE PRESSURE AT B
3P	OFF	OFF	ADJUSTABLE PRESSURE AT C
	ON	OFF	ADJUSTABLE PRESSURE AT A
	OFF	ON	ADJUSTABLE PRESSURE AT B



INSTALLATION DIMENSIONS

UNIT : mm(inch)

SRF-G*-1PN/1NP



MODEL	A	B	C	D	E	G	H	J	K
SRF-G04 SERIES	228.5 (9.00)	175 (6.89)	78 (3.07)	78 (3.07)	57 (0.67)	82 (3.23)	53.8 (2.12)	21.5 (0.89)	53.8 (2.12)
SRF-G06 SERIES	254 (9.61)	175 (6.85)	78 (3.07)	60 (2.36)	40 (0.67)	102 (4.09)	70 (2.76)	19 (0.67)	66.7 (2.63)
SRF-G10 SERIES	281 (11.06)	184 (7.24)	87.5 (3.45)	67 (2.64)	47 (0.71)	124 (4.88)	82.6 (3.25)	20 (0.71)	88.9 (3.5)

MODEL	L	M	N	Y	Z	WEIGHT	SUBPLATE TYPE
SRF-G04 SERIES	0 (0)	47.5 (2.13)	22 (0.87)	13.5 (0.53)	21 (0.83)	7.5 KGS (16.5 LBS)	MF-04
SRF-G06 SERIES	23.8 (0.94)	55.5 (2.19)	11 (0.43)	17.5 (0.69)	26 (1.02)	8.0 KGS (17.6 LBS)	MF-06
SRF-G10 SERIES	31.8 (1.25)	76.2 (3.00)	12.7 (0.50)	22 (0.85)	32 (1.26)	25 KGS (55.1 LBS)	MF-10

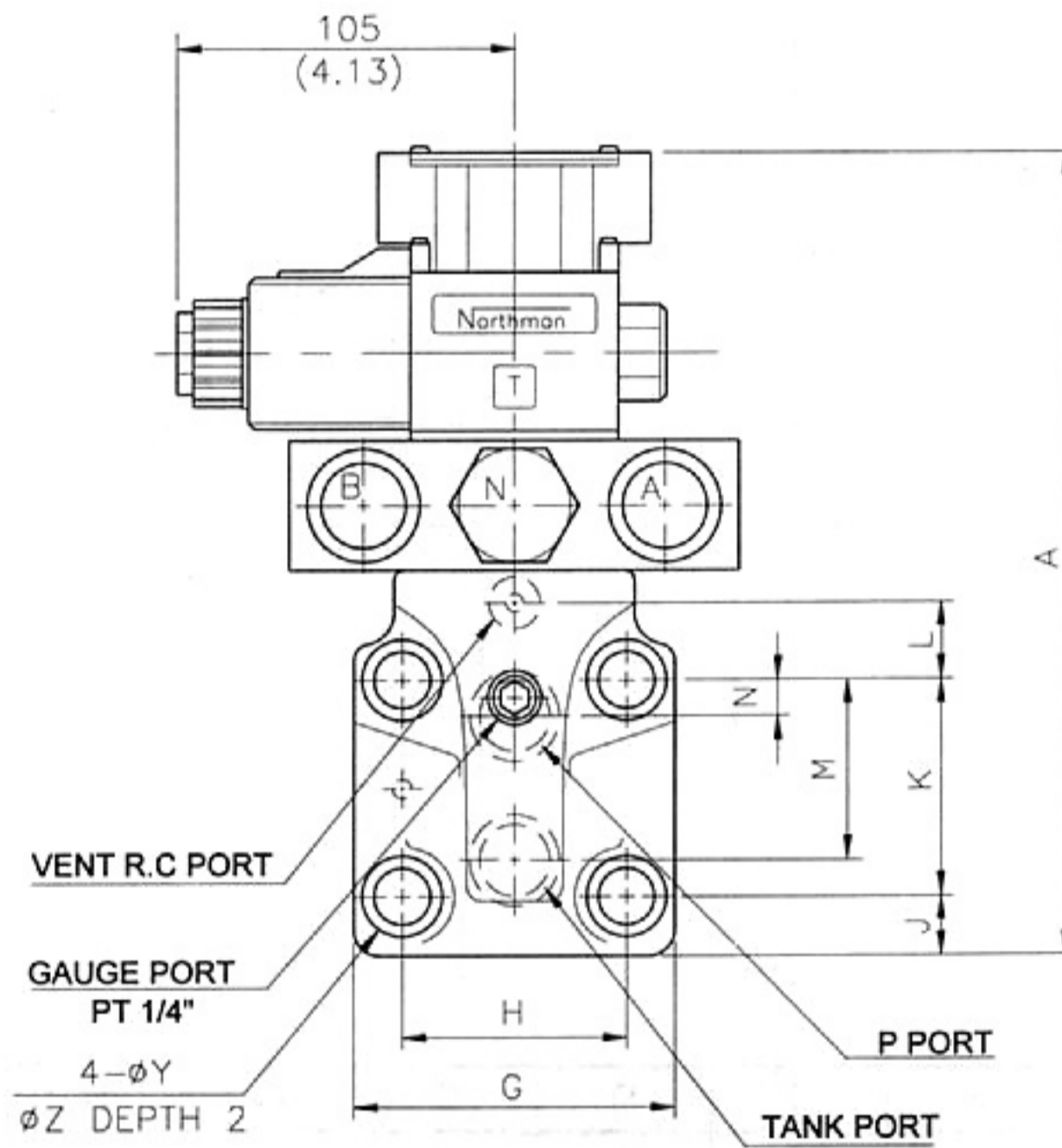
PRESSURE CONTROLS

SOLENOID CONTROLLED RELIEF VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SRF-G06/G10-2P

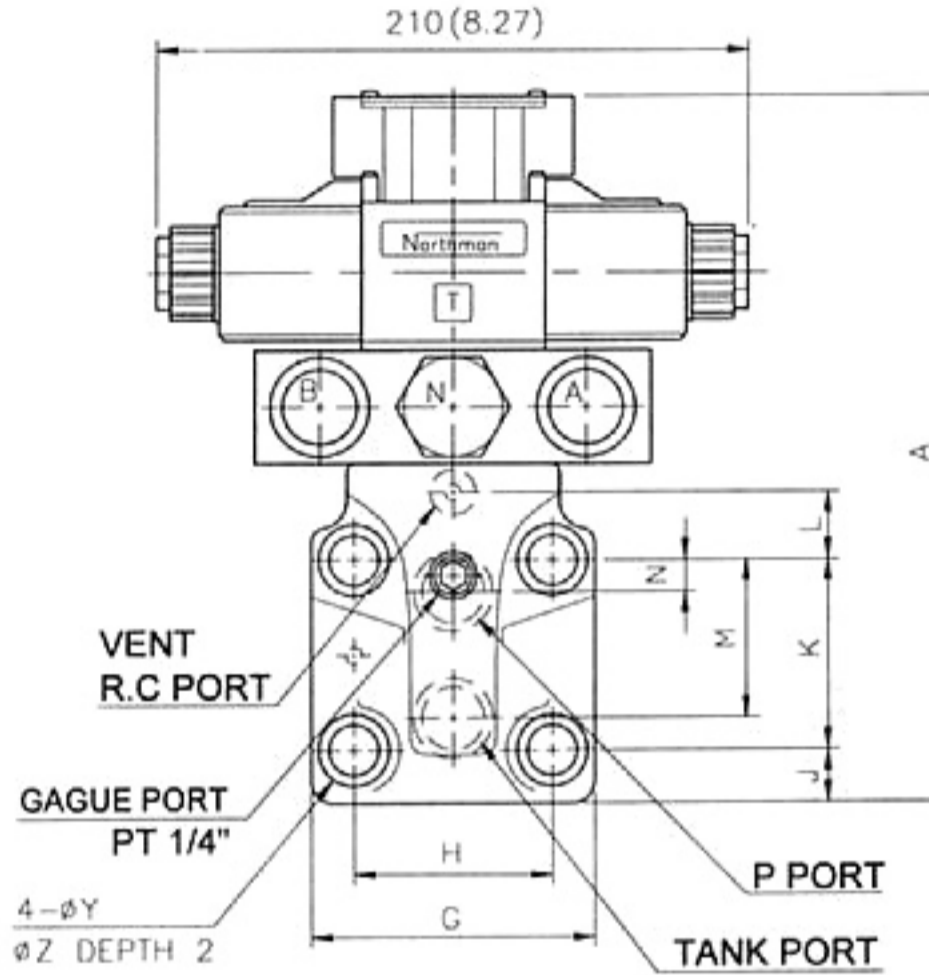


MODEL	A	G	H	J	K	L	M	N	Y	Z	WEIGHT	SUBPLATE TYPE
SRF-G06 SERIES	244 (9.61)	104 (4.09)	70 (2.76)	16.9 (0.67)	66.7 (2.63)	23.8 (0.94)	55.5 (2.19)	11 (0.43)	17.5 (0.69)	26 (1.02)	10 KGS (22.0LBS)	MF-06
SRF-G10 SERIES	281 (11.06)	124 (4.88)	82.6 (3.25)	18 (0.71)	88.9 (3.5)	31.8 (1.25)	76.2 (3.00)	12.7 (0.50)	21.5 (0.85)	32 (1.26)	27 KGS (59.5LBS)	MF-10

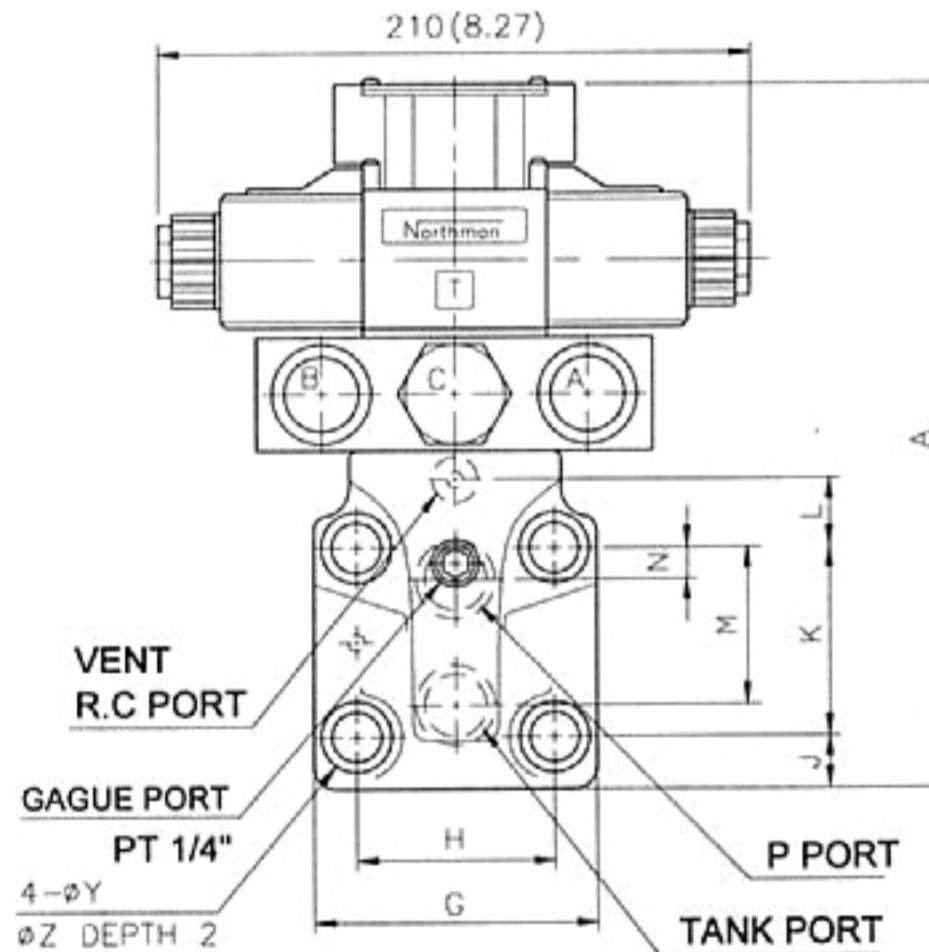
INSTALLATION DIMENSIONS

UNIT : mm(inch)

SRF-G06/G10-2PN



SRF-G06/G10-3P



MODEL	A	G	H	J	K	L	M	N	Y	Z	WEIGHT	SUBPLATE TYPE
SRF-G06 SERIES	244 (9.61)	104 (4.09)	70 (2.76)	16.9 (0.67)	66.7 (2.63)	23.8 (0.94)	55.5 (2.19)	11 (0.43)	17.5 (0.69)	26 (1.02)	12 KGS (26.4LBS)	MF-06
SRF-G10 SERIES	281 (11.06)	124 (4.88)	82.6 (3.25)	18 (0.71)	88.9 (3.5)	31.8 (1.25)	76.2 (3.00)	12.7 (0.50)	21.5 (0.85)	32 (1.26)	29 KGS (63.9LBS)	MF-10

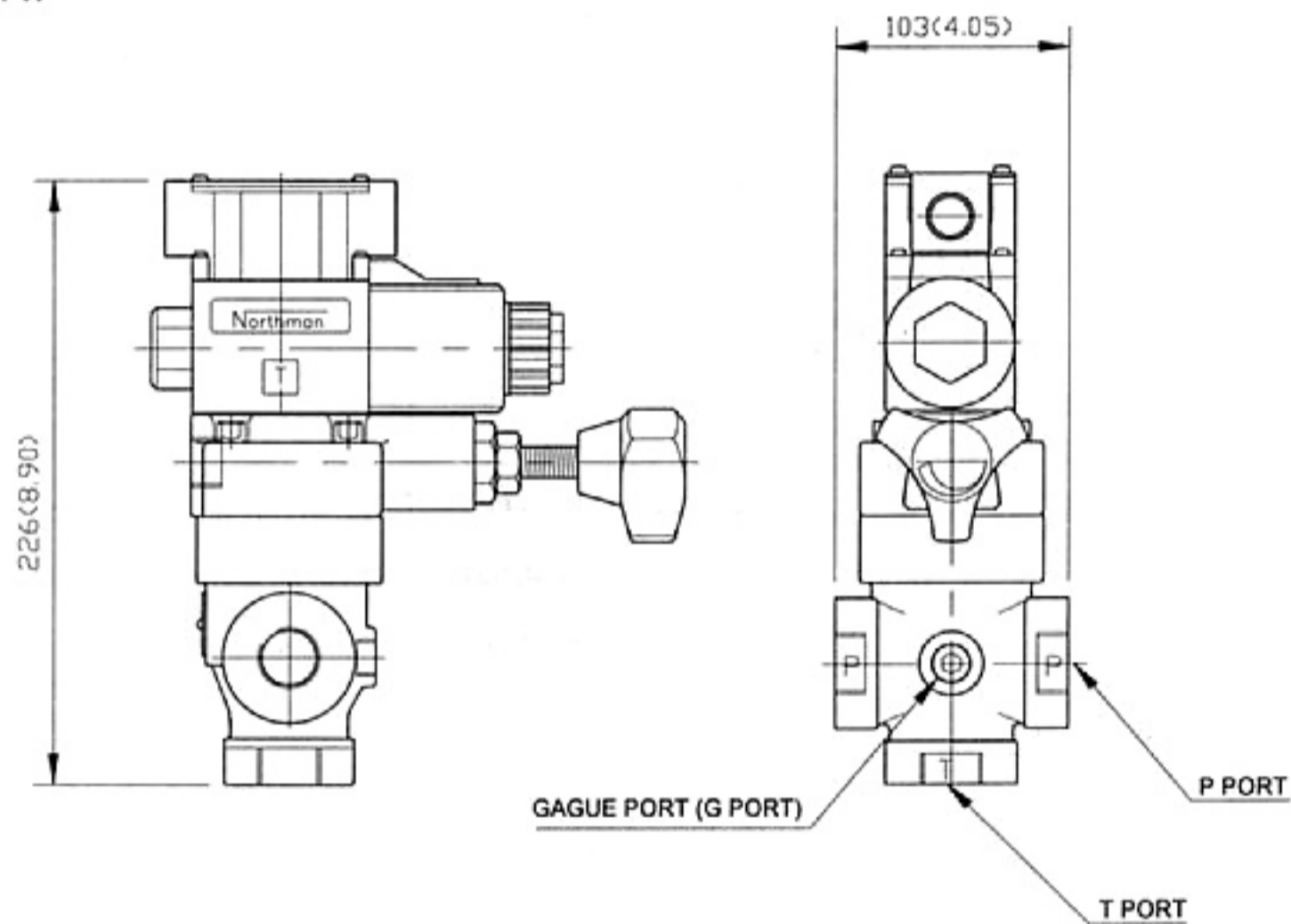
PRESSURE CONTROLS

SOLENOID CONTROLLED RELIEF VALVE

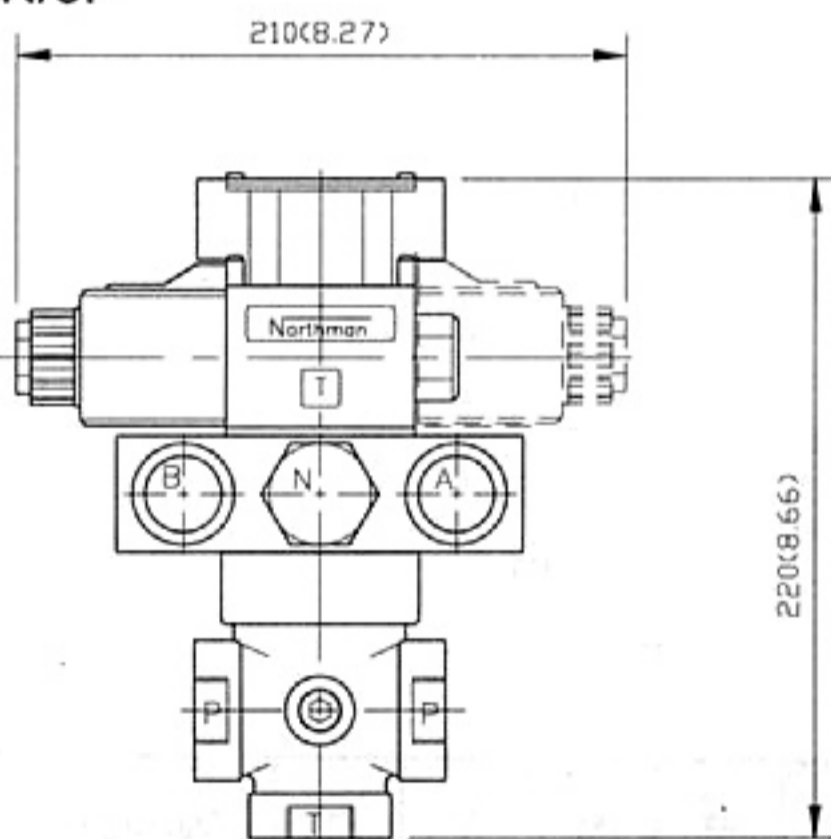
INSTALLATION DIMENSIONS

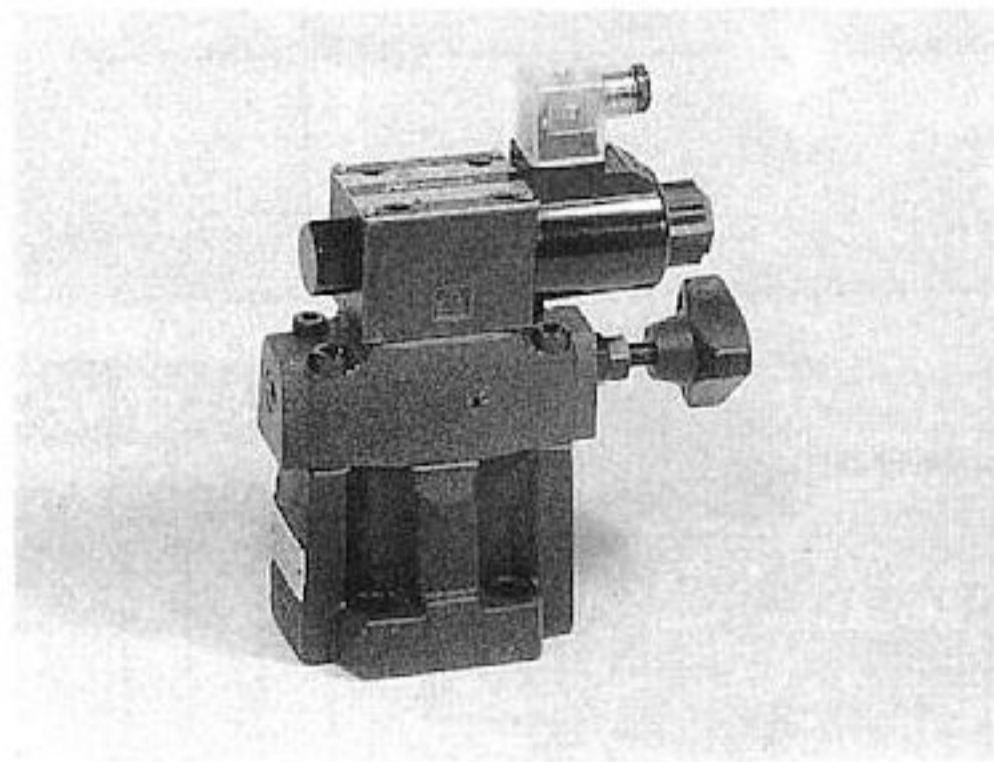
UNIT : mm(inch)

SRF-T06-1PN/1NP

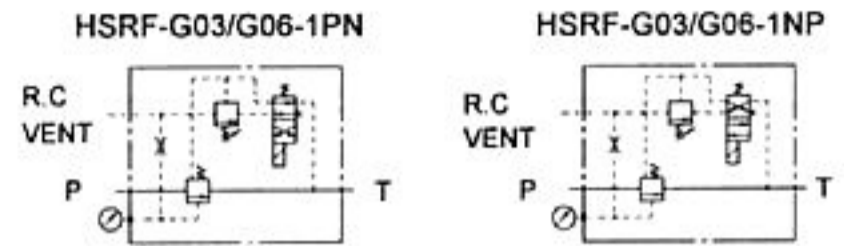


SRF-T06-2P/2PN/3P





SYMBOL

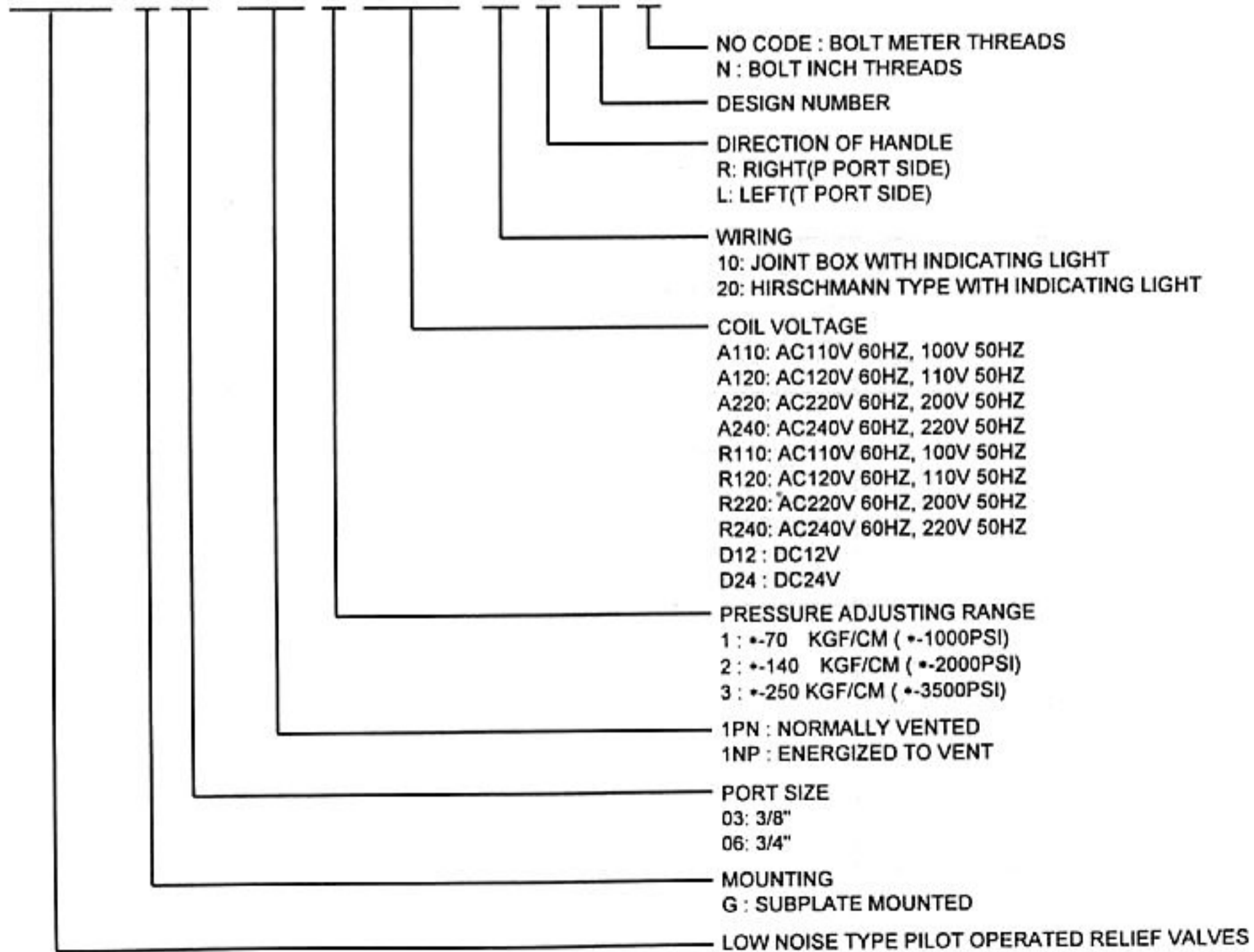


SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ² (PSI)	MAX. FLOW LPM (GPM)	BOLT METER (INCH)
HSRF-G03-*10	250 (3500)	100 (25)	M12x40Lx4 (1/2x1 3/5")
HSRF-G06-*10		200 (53)	M16x50Lx4 (5/8x2")

HOW TO ORDER

HSRF-G06-1PN-3-A220-10-L-10-N



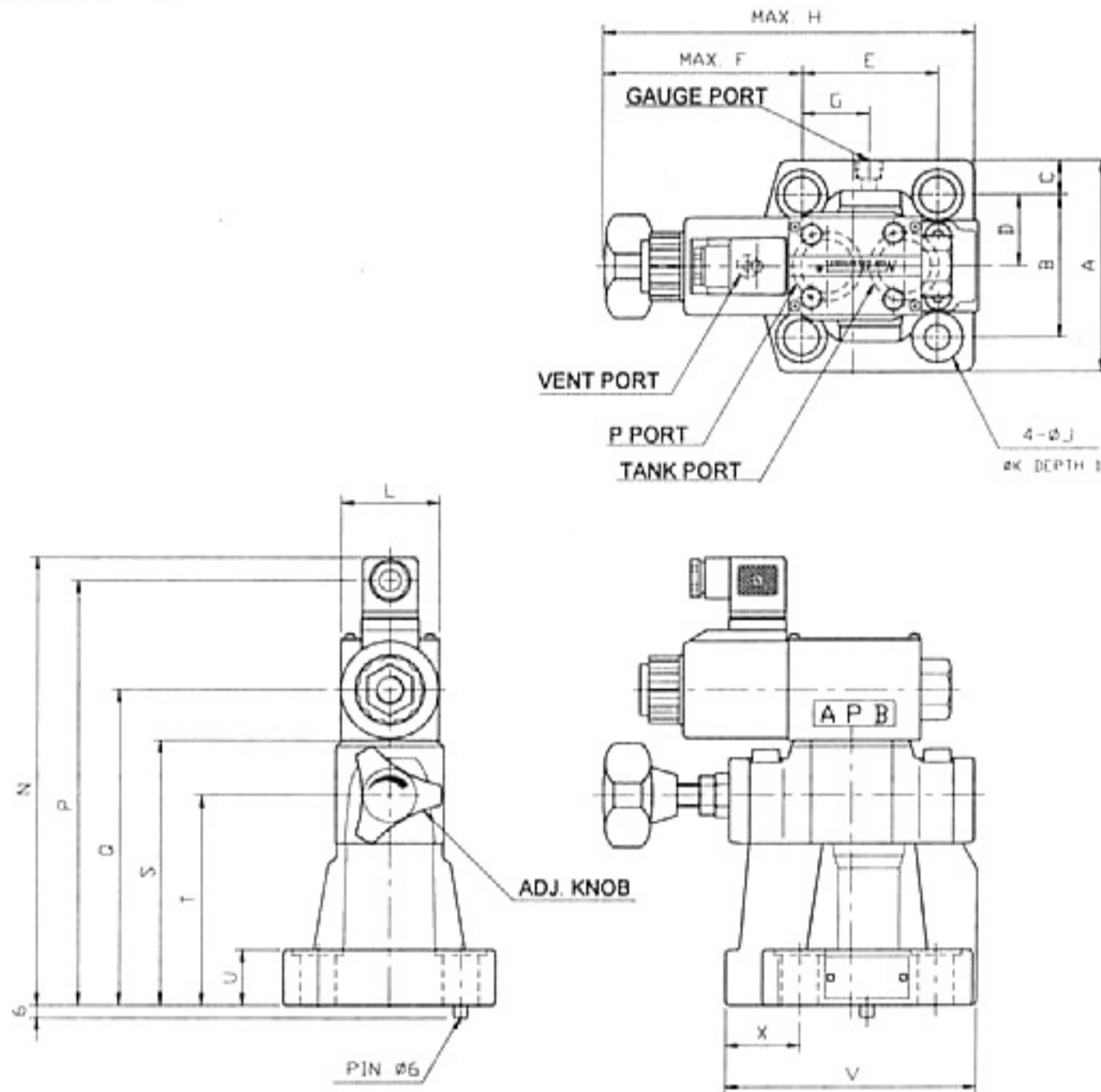
PRESSURE CONTROLS

LOW NOISE TYPE SOLENOID CONTROLLED RELIEF VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

HSRF-G03/06-1PN/1NP-R

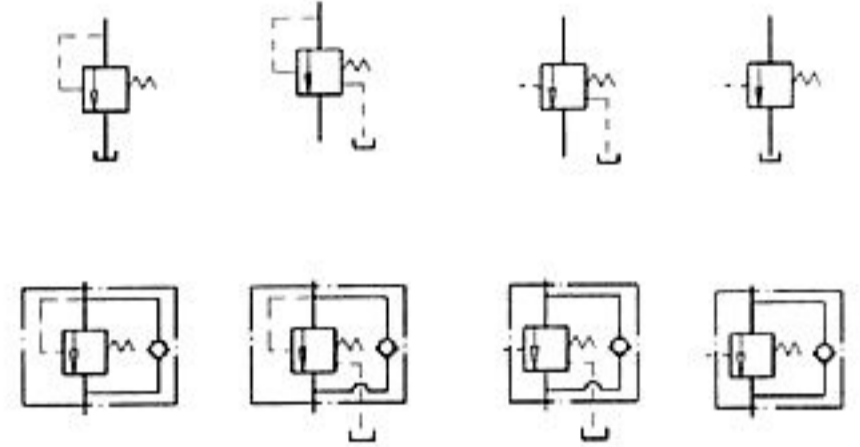
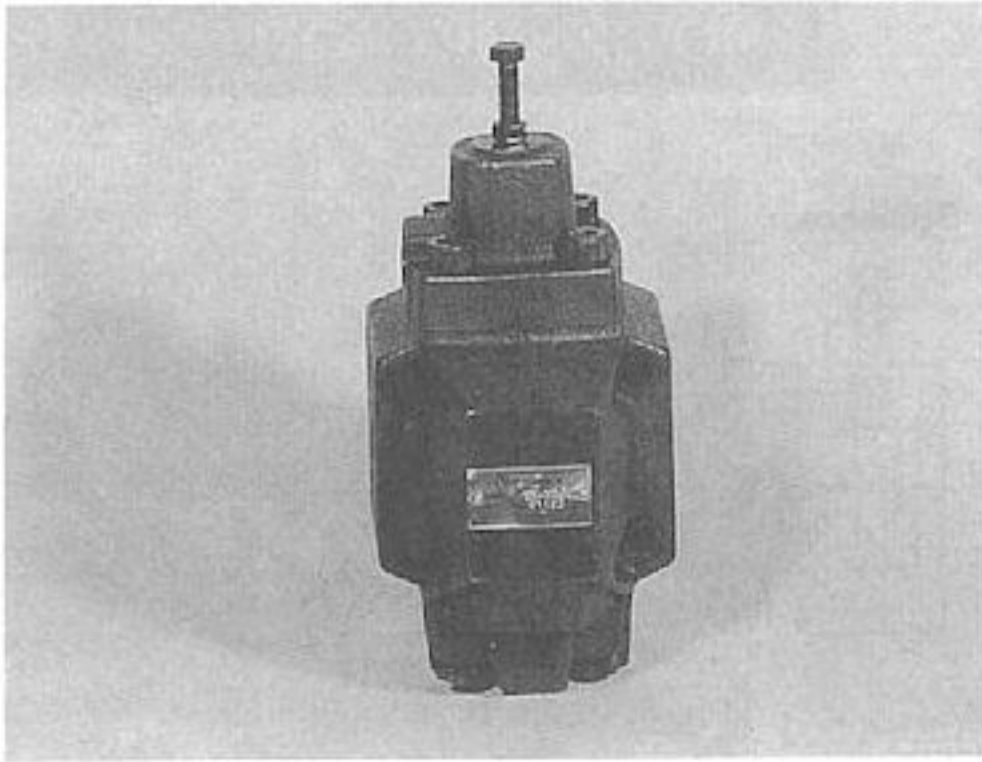


MODEL	A	B	C	D	E	F	G	H	J
HSRF-03	76(3)	53.8(2.12)	11.1(0.44)	26.9(1.06)	53.8(2.11)	113.5(4.47)	27(1.06)	171(6.73)	13.5(0.53)
HSRF-06	104(4.09)	70(2.76)	17(0.67)	35(1.38)	66.7(2.63)	98.8(3.89)	33.7(1.33)	171(6.73)	17.5(0.69)

MODEL	K	L	N	P	Q	S	T	U	V
HSRF-03	21(0.83)	48(1.89)	220.5(8.7)	206.8(8.1)	157(6.18)	132(5.2)	104(4.09)	22(0.86)	106(4.17)
HSRF-06	25(0.98)	48(1.89)	220.5(8.7)	206.8(8.1)	157(6.18)	132(5.2)	104(4.09)	27(1.06)	123(4.84)

MODEL	X	SUBPLATE TYPE
HSRF-G03	26(1.02)	MF-04
HSRF-G06	36.5(1.44)	MF-06

SYMBOLS

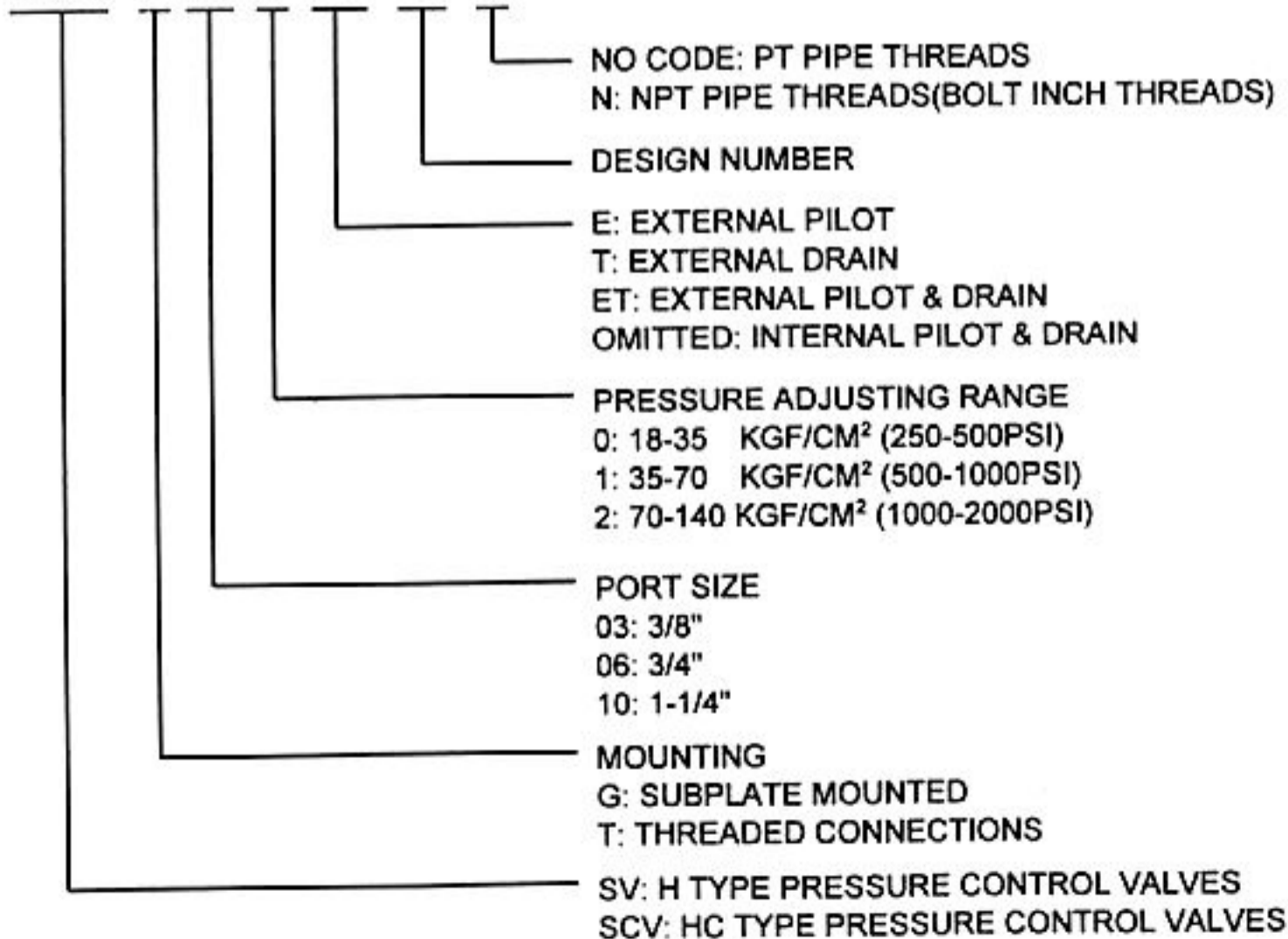


SPECIFICATIONS

MODEL	MAX. OPERATED PRESSURE KGF/CM ² (PSI)	PRESSURE ADJ. RANGE KGF/CM ² (PSI)	MAX. FLOW LPM(GPM)
SV/SCV-*03	210 (3000)	0: 18-35(250-500)	50(13)
SV/SCV-*06		1: 35-70(500-1000)	125(33)
SV/SCV-*10		2: 70-140(1000-2000)	250(66)

HOW TO ORDER

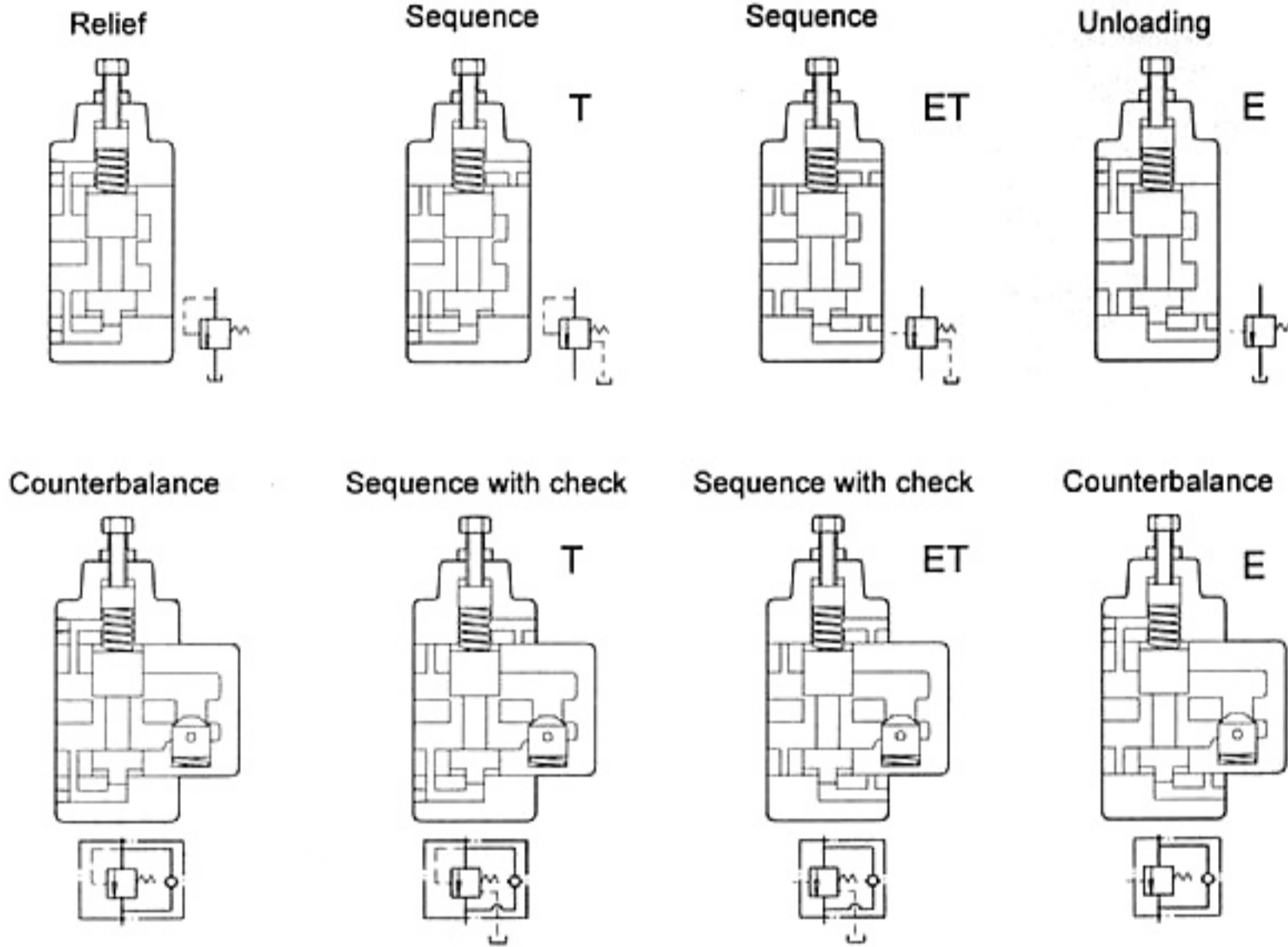
SCV-G06-0-ET-20-N



PRESSURE CONTROLS

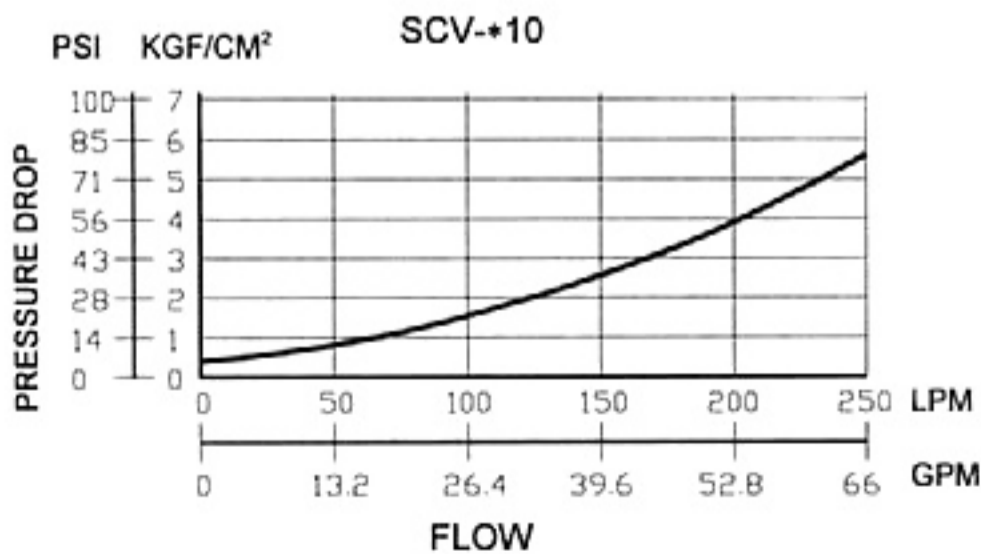
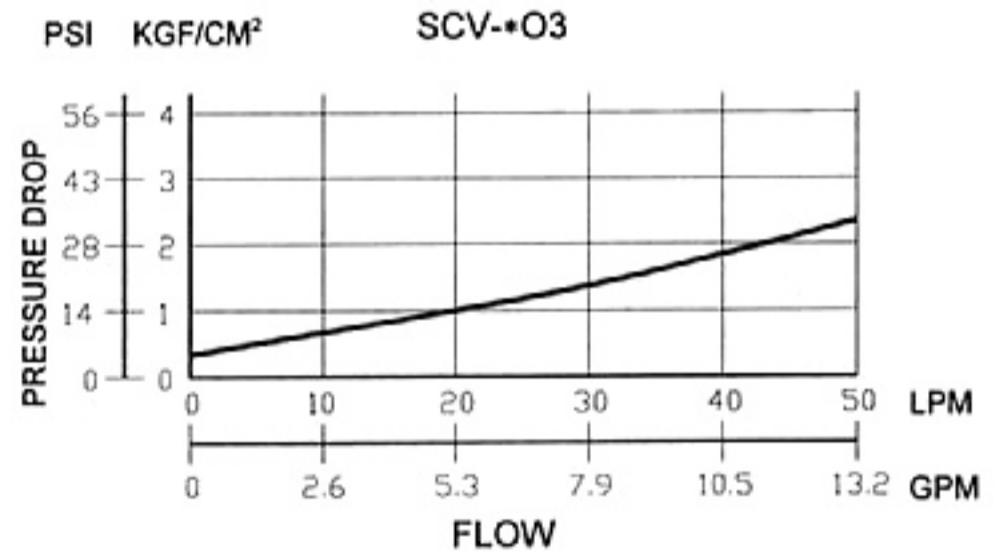
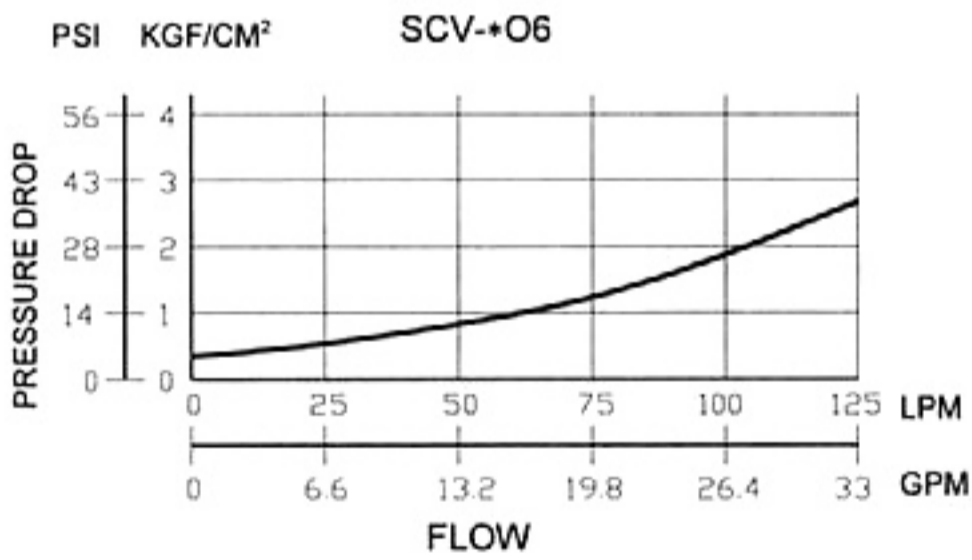
H & HC TYPE PRESSURE CONTROL VALVE

VALVE TYPE



PERFORMANCE CURVES

PRESSURE DROP FOR REVERSED FREE FLOW

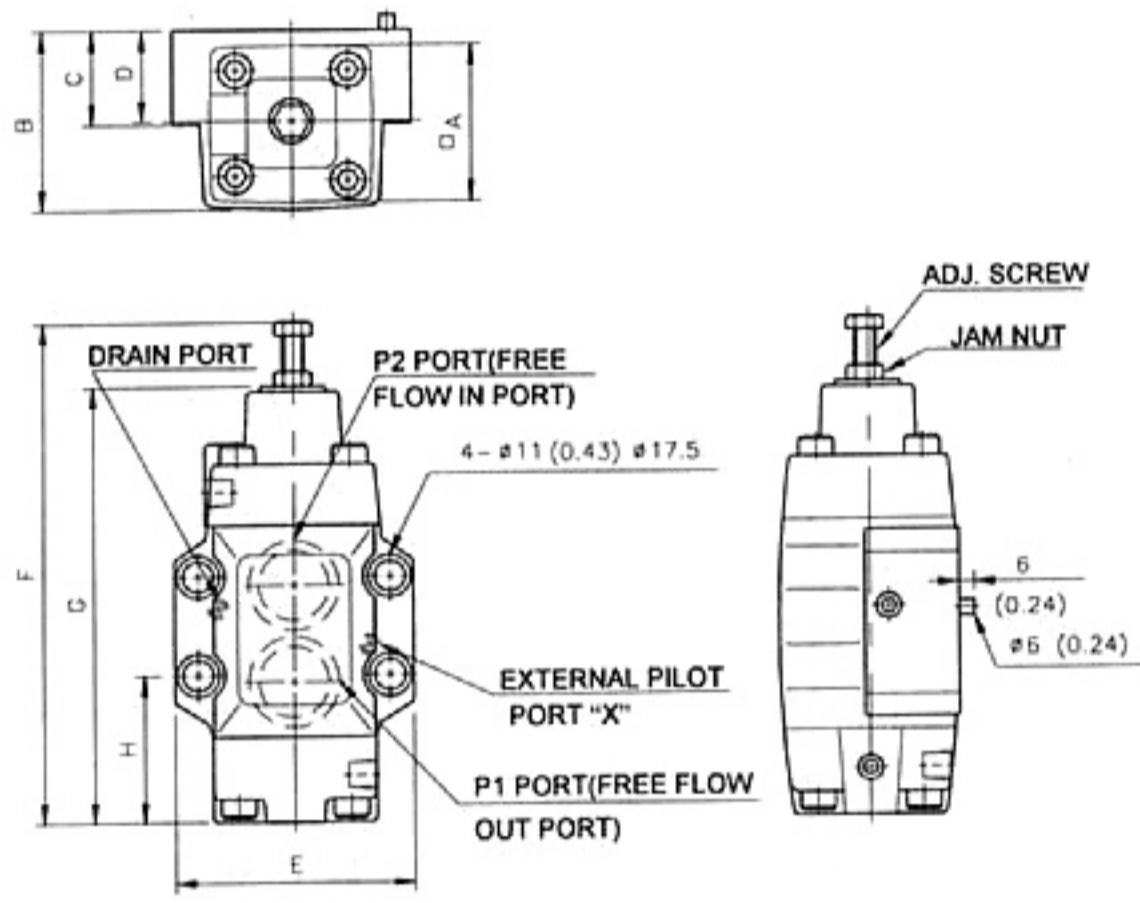




INSTALLATION DIMENSIONS

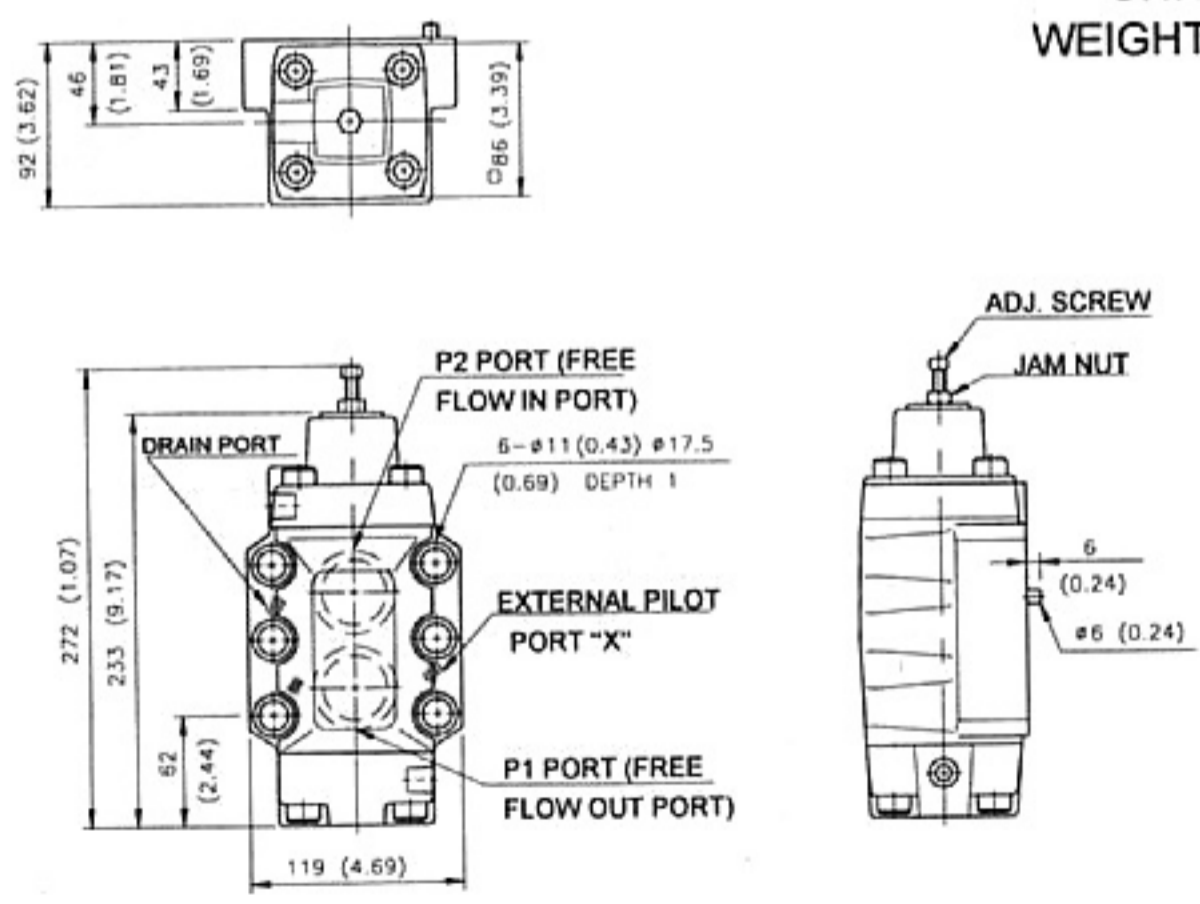
UNIT : mm(inch)

SV-G03/06



MODEL	A	B	C	D	E	F	G	H	BOLT	WEIGHT	
										KGS	LBS
SV-G03	60 (2.36)	67 (2.64)	41.7 (1.64)	39 (1.54)	89 (3.50)	195 (7.68)	170.3 (6.70)	52.3 (2.06)	M10x50x4PCS (3/8x2")	4.0	8.8
SV-G06	73 (2.87)	81 (3.19)	41.5 (1.63)	39 (1.54)	102 (4.02)	219 (8.62)	192 (7.56)	51 (2.01)	M10x50x4PCS (3/8x2")	6.1	13.4

UNIT : mm(inch)
WEIGHT : 11kgs(24.25lbs)



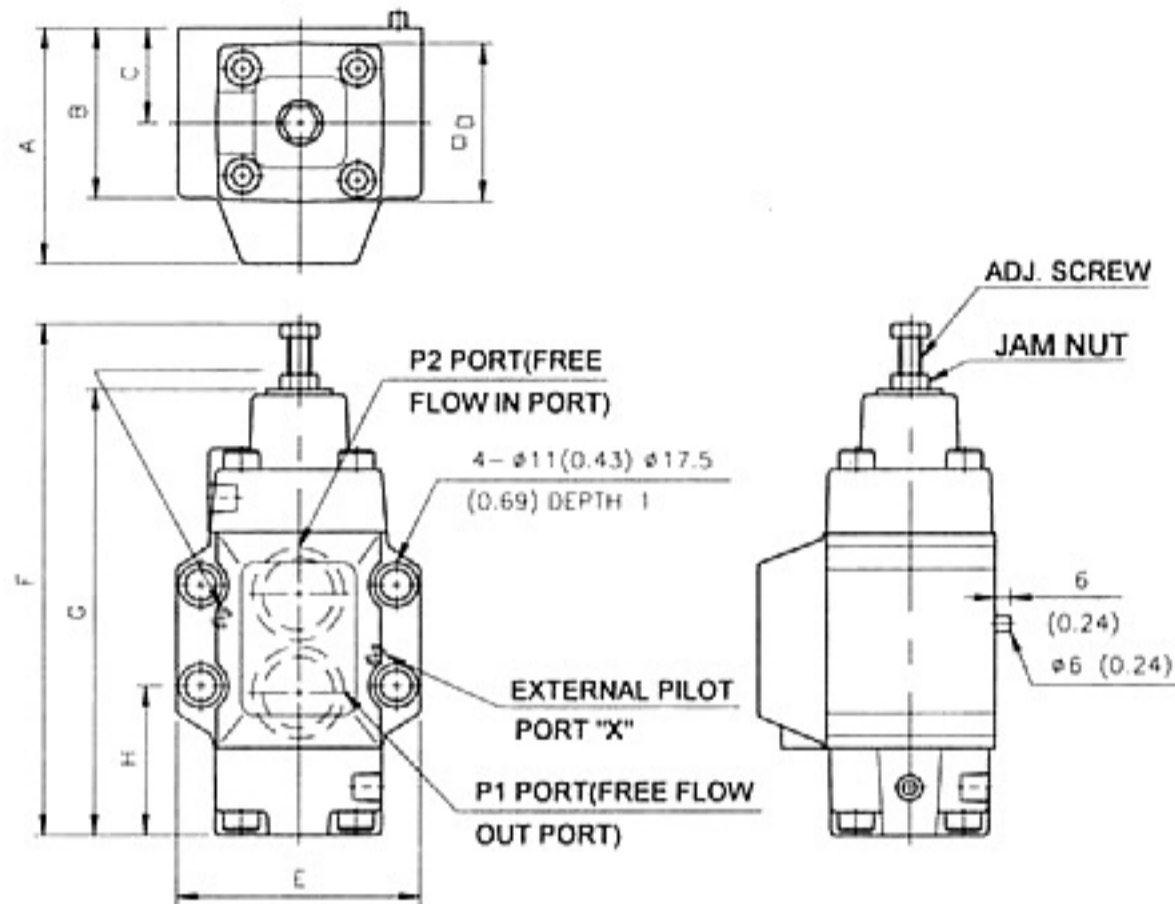
PRESSURE CONTROLS

H & HC TYPE PRESSURE CONTROL VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

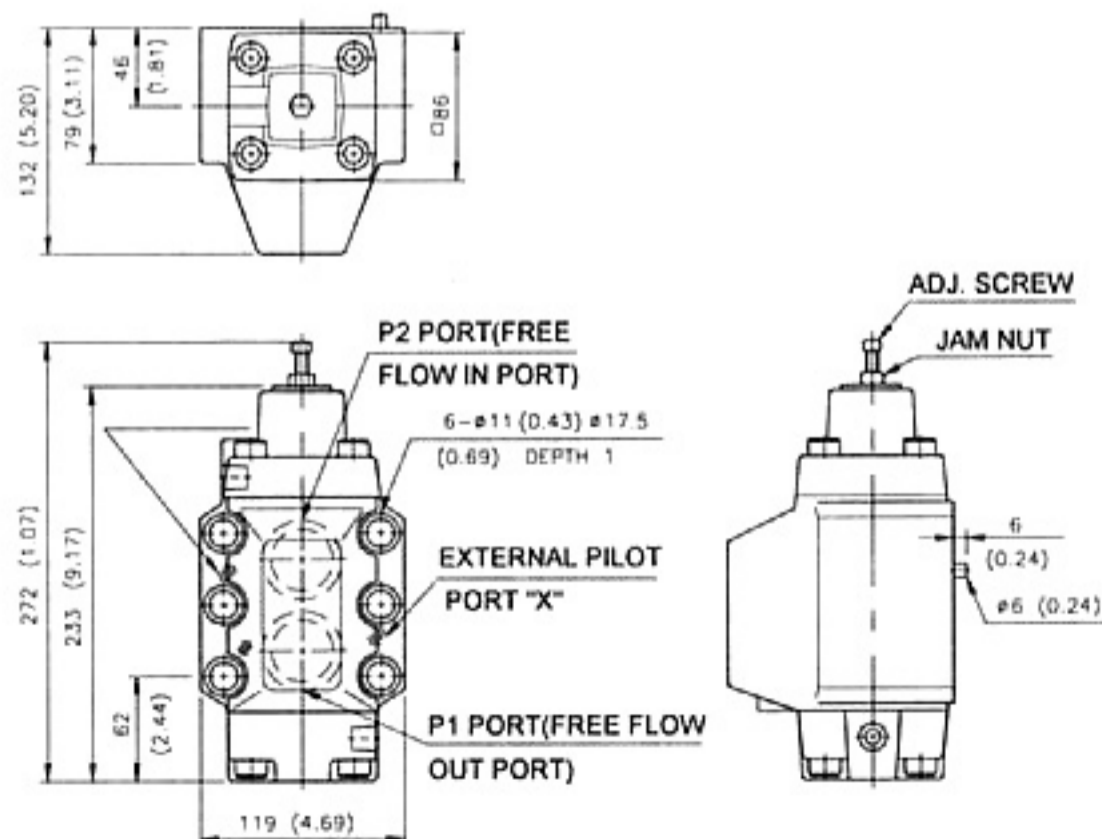
SCV-G03/06



MODEL	A	B	C	D	E	F	G	H	BOLT	WEIGHT	
										KGS	LBS
SCV-G03	87 (3.43)	59 (2.32)	35 (1.38)	60 (2.36)	89 (3.50)	191 (7.52)	170 (6.69)	49.6 (1.95)	M10x70x4PCS (3/8x2 -3/4")	4.8	10.6
SCV-G06	108 (4.25)	69 (2.72)	40 (1.57)	73 (2.87)	102 (4.02)	221 (8.70)	188 (7.40)	51 (2.01)	M10x80x4PCS (3/8x3 -1/4")	7.8	17.2

UNIT : mm(inch)
WEIGHT : 11kgs(24.25lbs)

SCV-G10

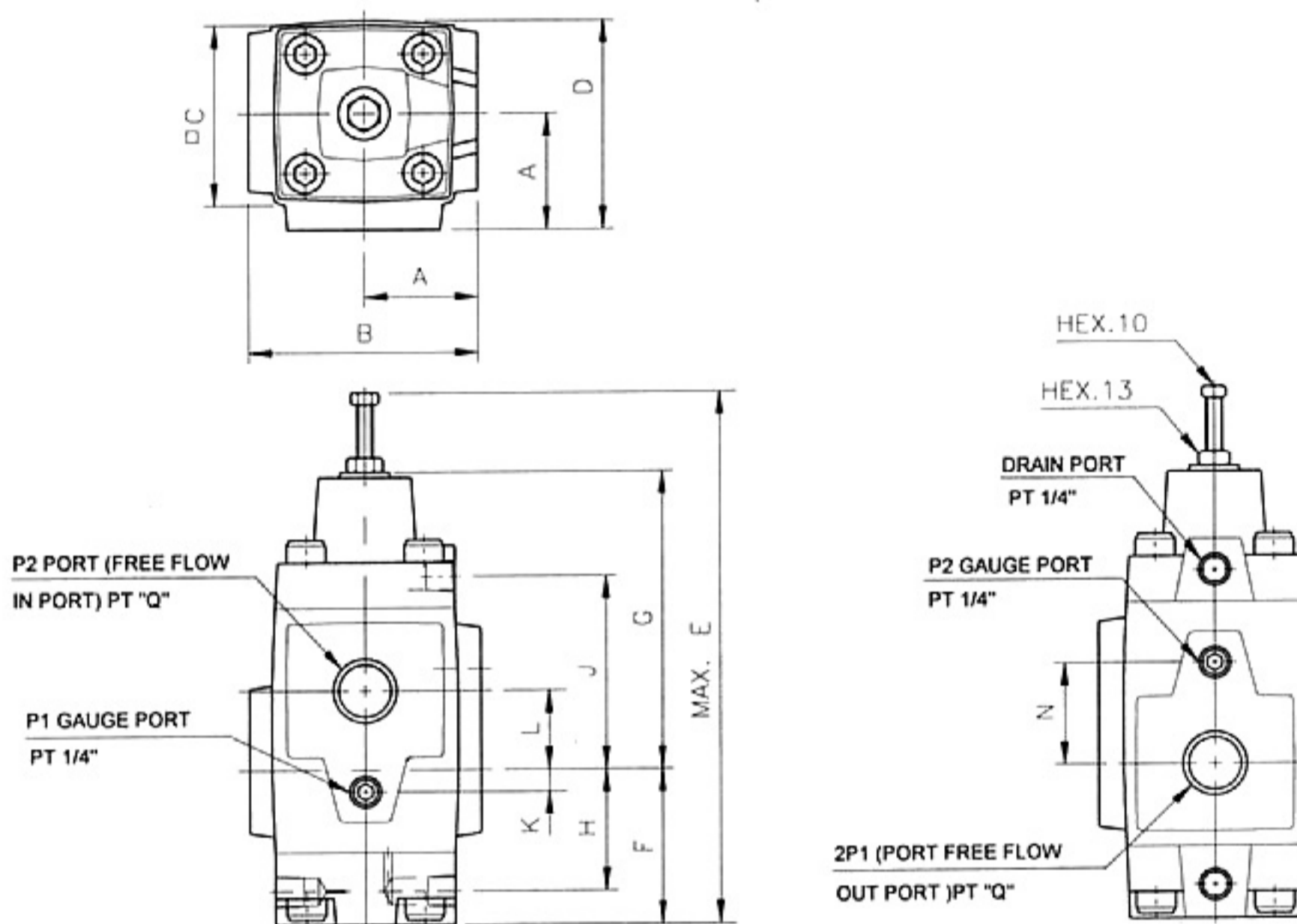




INSTALLATION DIMENSIONS

UNIT : mm(inch)

SV-T03/06/10



MODEL	A	B	C	D	E	F	G	H
SV-T03	42 (1.65)	84 (3.31)	61 (2.40)	74 (2.91)	195 (7.68)	57 (2.24)	106 (4.17)	43 (1.69)
SV-T06	48 (1.89)	96 (3.78)	73 (2.87)	86 (3.39)	219 (8.62)	64.5 (2.54)	123.5 (4.86)	50.5 (1.99)
SV-T10	68.5 (2.70)	137 (5.39)	84 (3.31)	103 (4.05)	272 (10.71)	84 (3.31)	149 (5.87)	66 (2.60)

MODEL	J	K	L	N	Q	WEIGHT	
						KGS	LBS
SV-T03	70 (2.76)	0 (0)	28 (1.10)	28 (1.10)	3/8 (1/2)	3.7	8.1
SV-T06	80.5 (3.17)	9 (0.35)	33 (1.30)	42 (1.65)	3/4 (1)	6.2	13.6
SV-T10	98 (3.86)	12 (0.47)	40 (1.57)	52 (2.05)	1 1/4 (1 1/2)	120	26.4

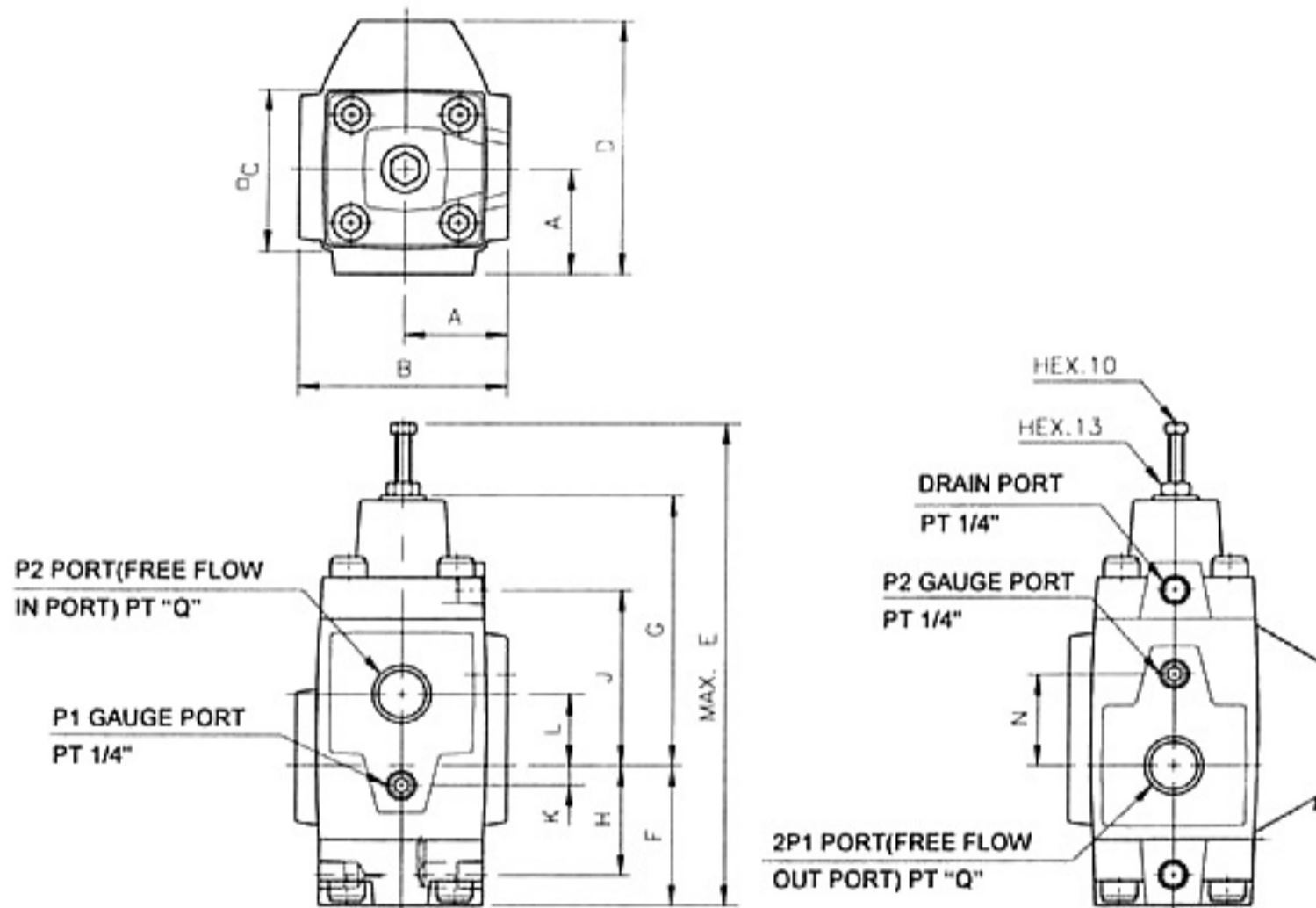
PRESSURE CONTROLS

H & HC TYPE PRESSURE CONTROL VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SCV-T03/06/10



MODEL	A	B	C	D	E	F	G	H
SCV-T03	41 (1.61)	82 (3.23)	63 (2.48)	96 (3.78)	194 (7.64)	59 (2.32)	110 (4.33)	43 (1.69)
SCV-T06	50 (1.97)	100 (3.94)	76 (2.99)	118 (4.65)	223.5 (8.80)	64.5 (2.54)	123.5 (4.86)	50.5 (1.99)
SCV-T10	68.5 (2.70)	137 (5.39)	84 (3.31)	156 (6.14)	269 (10.59)	84 (3.31)	149 (5.87)	66 (2.60)

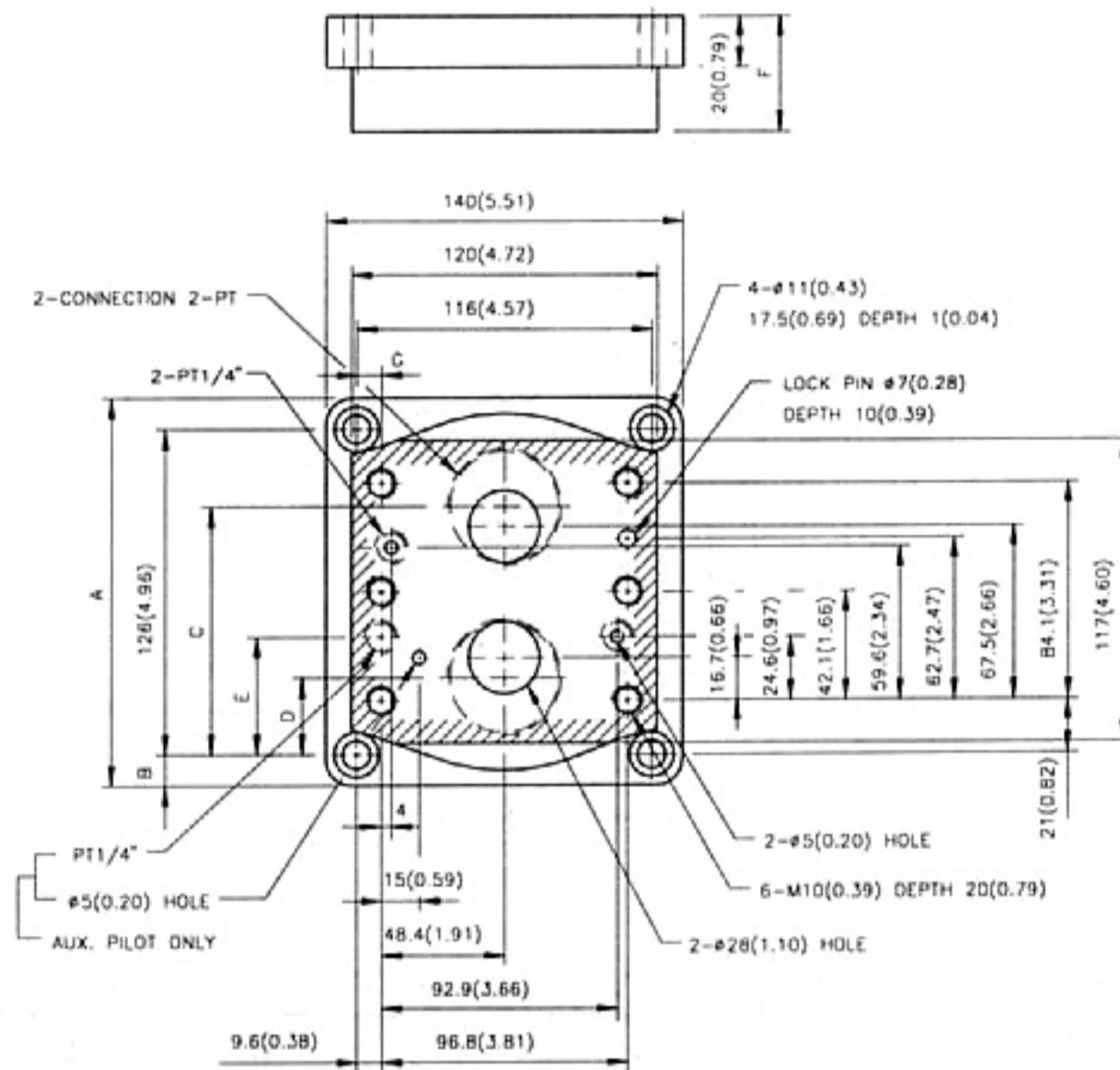
MODEL	J	K	L	N	Q	WEIGHT	
						KGS	LBS
SCV-T03	70 (2.76)	0 (0)	28 (1.10)	28 (1.10)	3/8 (1/2)	4.2	4.2
SCV-T06	80.5 (3.17)	9 (0.35)	33 (1.30)	42 (1.65)	3/4 (1)	7.5	16.5
SCV-T10	98 (3.86)	12 (0.47)	40 (1.57)	52 (2.05)	1 1/4 (1 1/2)	13.8	30.4

PRESSURE CONTROLS

H & HC TYPE PRESSURE CONTROL VALVE

ISO 5781-AJ-10-2-A

UNIT : mm(inch)



THIS SUBPLATE IS USED FOR SV/SCV-G10, PCV/PCDV-G10, PRV/PRCV-G10, TV/TCV-G10, CV-G10

SUBPLATE	PORT PT	A	B	C	D	E	F	G
SVM-10-10	1 1/4	150	12	96	30	-	45	13.6
SVM-10-12	1 1/2	177	25.5	104	22	-	50	13.6

HOW TO ORDER

SVM-03-03-N

THREAD
NO CODE: PT PIPE THREADS
N: NPT PIPE THREADS

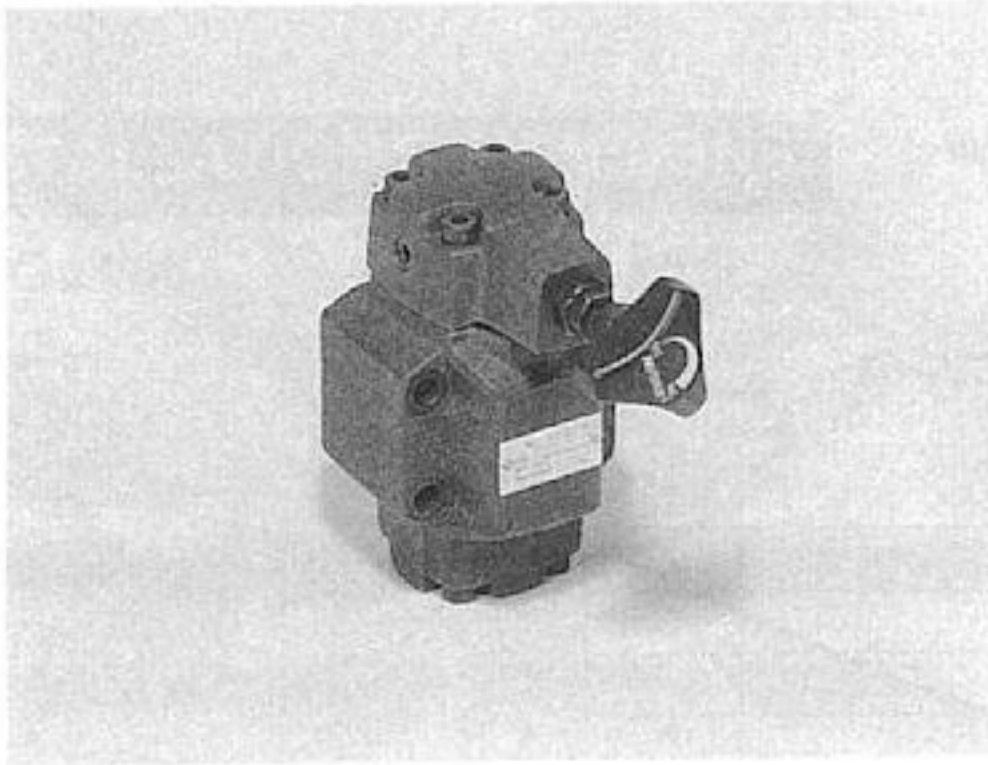
SUBPLATE PORT SIZE

03: 3/8"
04: 1/2"
06: 3/4"
08: 1"
10: 1-1/4"
12: 1-1/2"

VALVE PORT SIZE

03: 3/8"
06: 3/4"
10: 1-1/4"

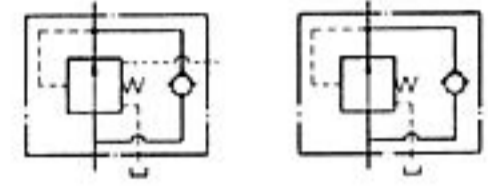
SUBPLATE FOR SV/SCV,PRV/PRCV,PCV/PCDV,TV/TCV,CV



SYMBOL



PRV-***



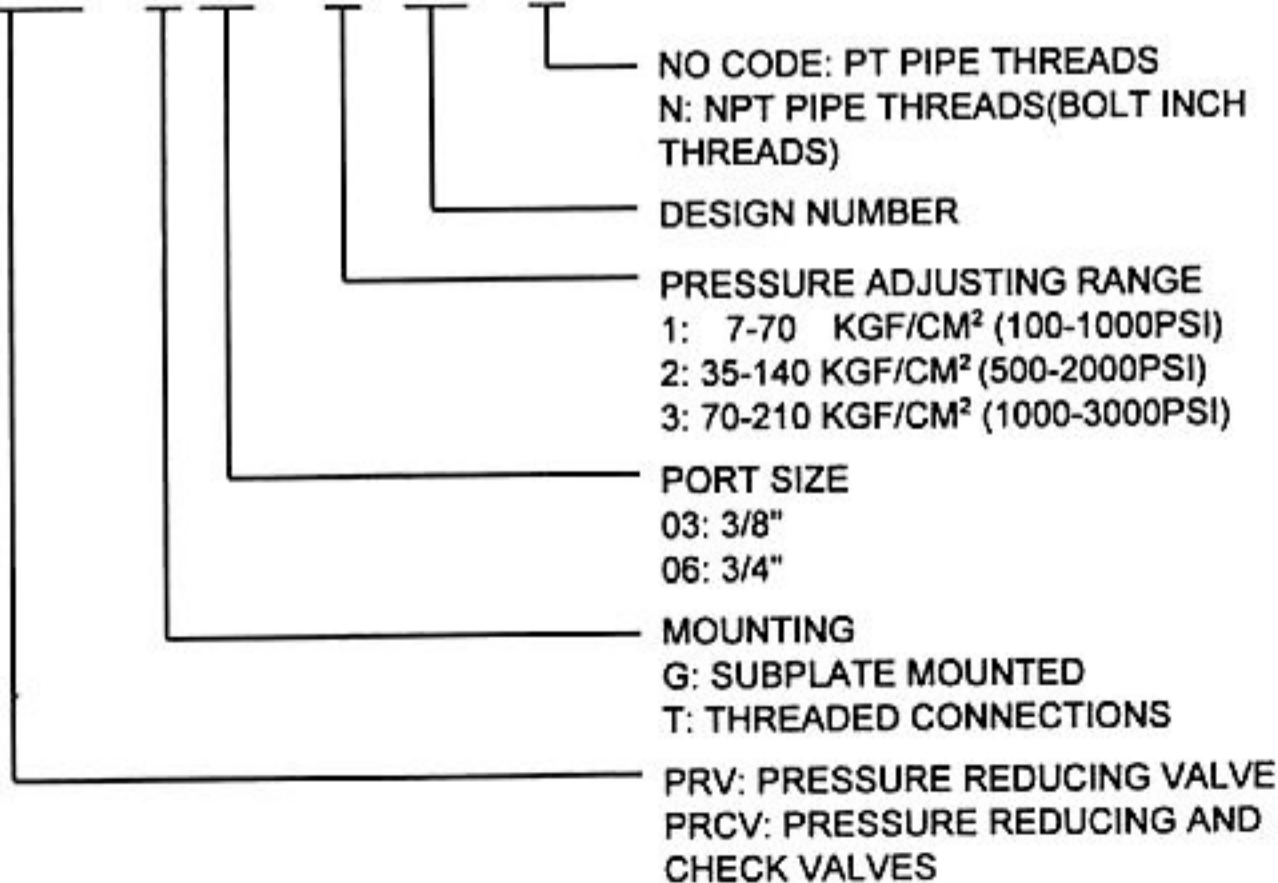
PRCV-***

SPECIFICATIONS

MODEL	MAX. PRESSURE KGF/CM ² (PSI)	PRESSURE ADJUSTING RANGE KGF/CM ² (PSI)	MAX. FLOW LPM(GPM)	MOUNTED BOLT METER(INCH)
PRV-*03 PRCV-*03	210(3000)	1:7-70(100-1000)	50(13.2)	M10x70(3/8"-2 3/4") 4PCS
PRV-*06 PRCV-*06		2:35-140(500-2000)	125(33)	M10x80(3/8"-3 1/4") 4PCS
PRV-*10 PRCV-*10		3:70-210(1000-1000)	250(66)	M10x90(3/8"-3 1/2") 6PCS

HOW TO ORDER

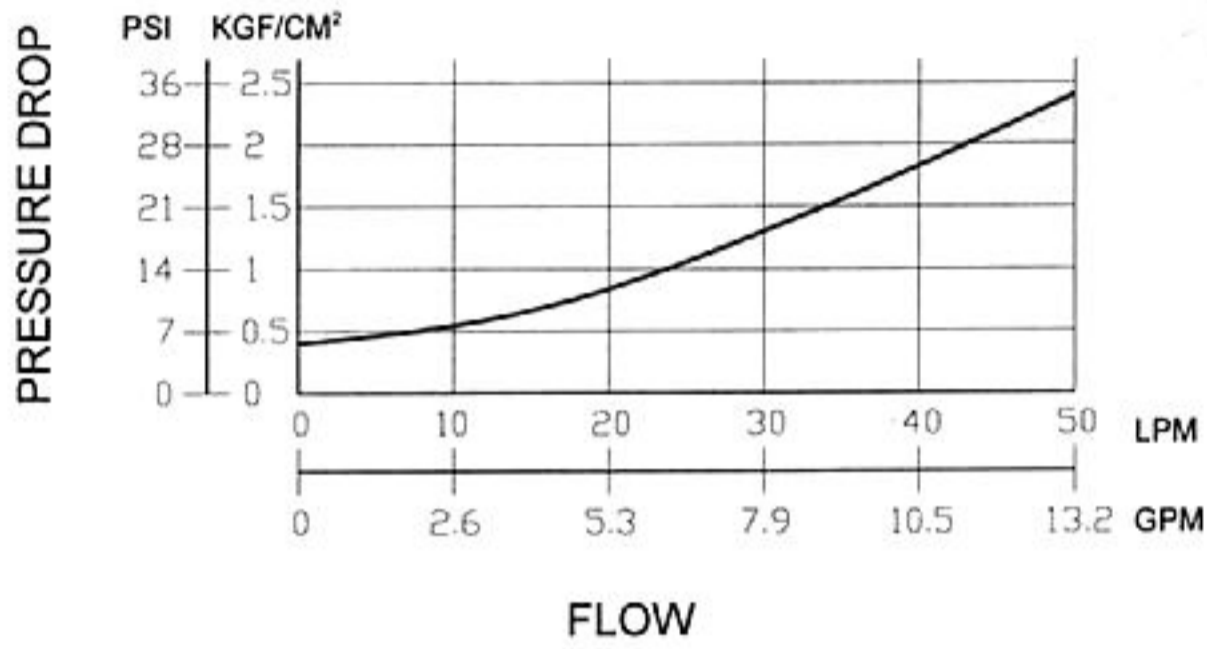
PRCV - G03 - 1 - 10 - N



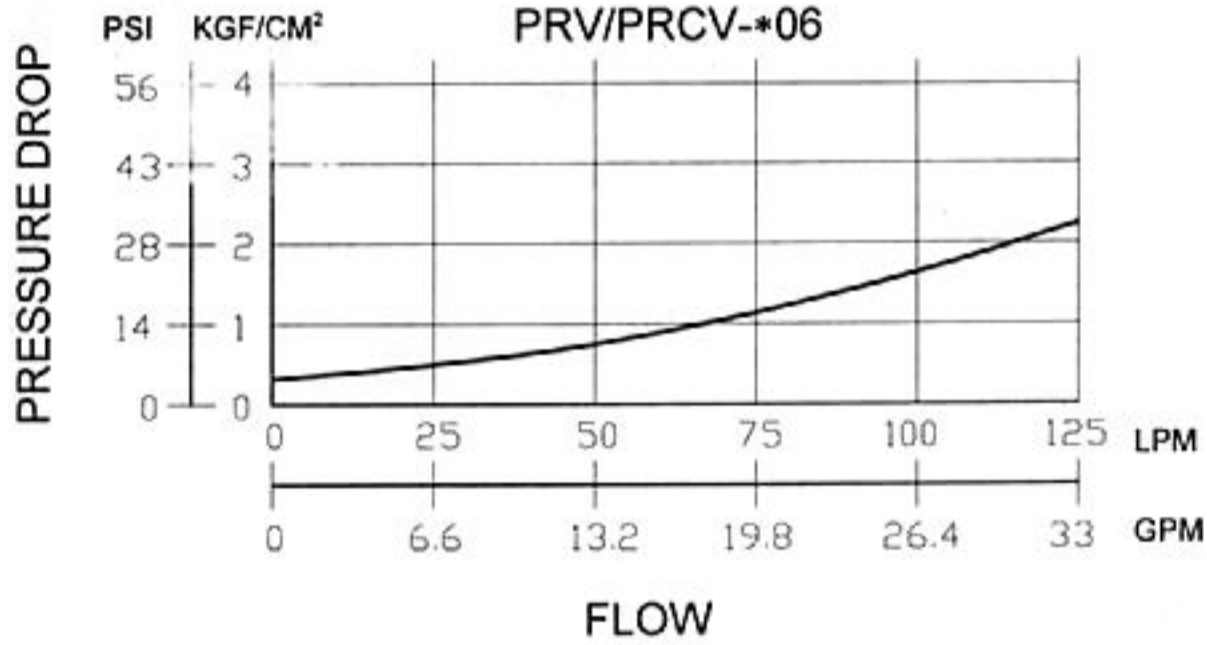
PRESSURE CONTROLS
PRESSURE REDUCING VALVE

PRESSURE DROP FOR REVERSED FREE FLOW

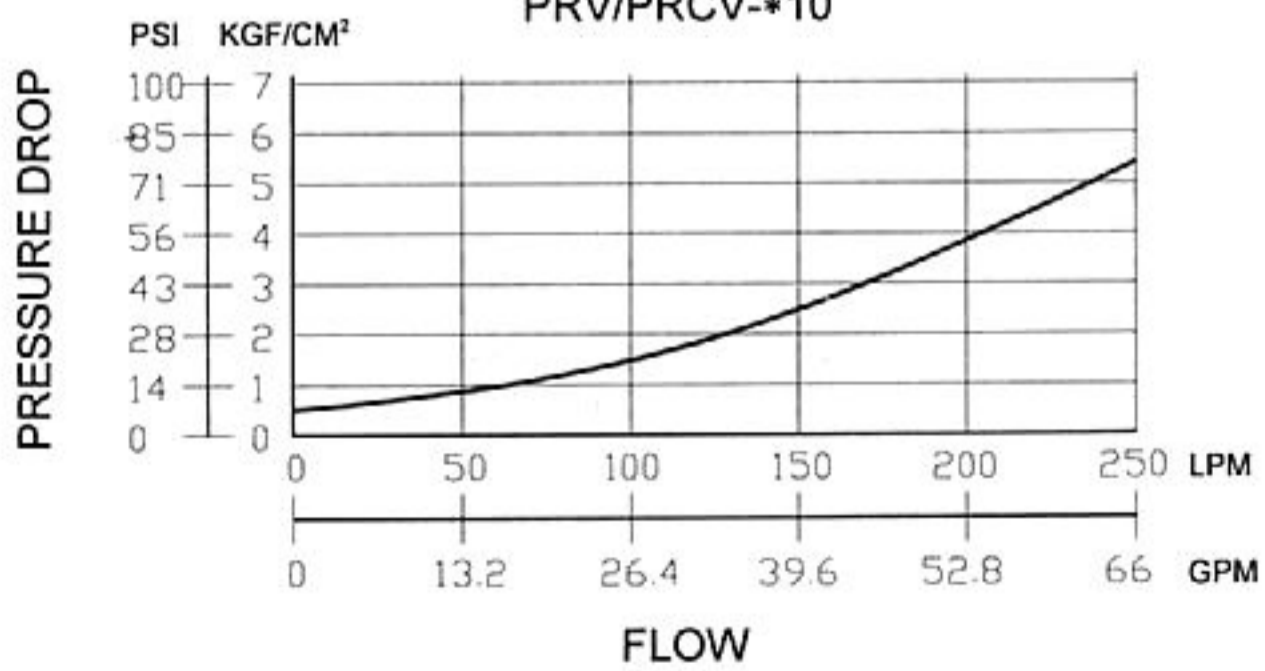
PRV/PRCV-*03



PRV/PRCV-*06



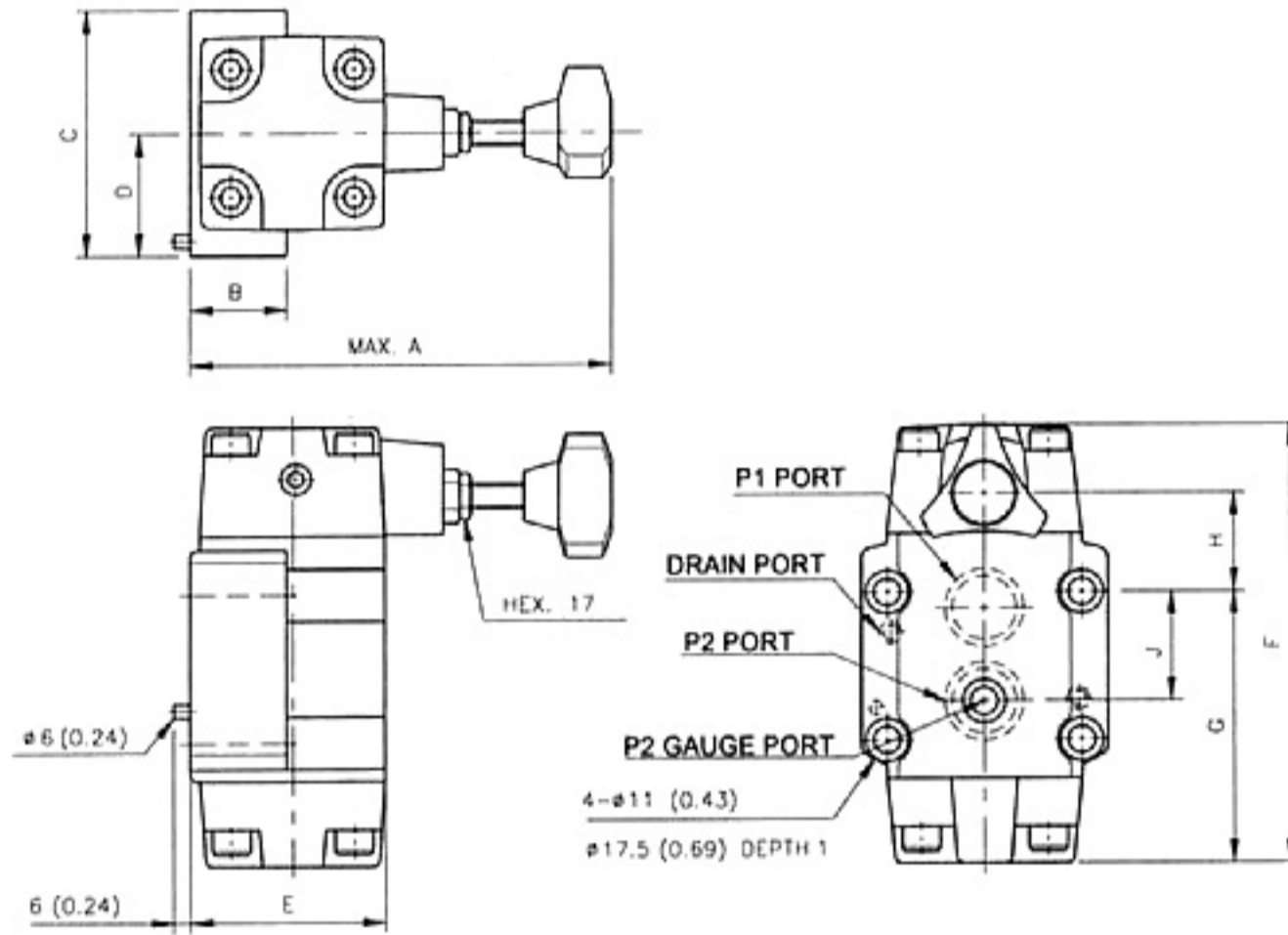
PRV/PRCV-*10



INSTALLATION DIMENSIONS

UNIT : mm(inch)

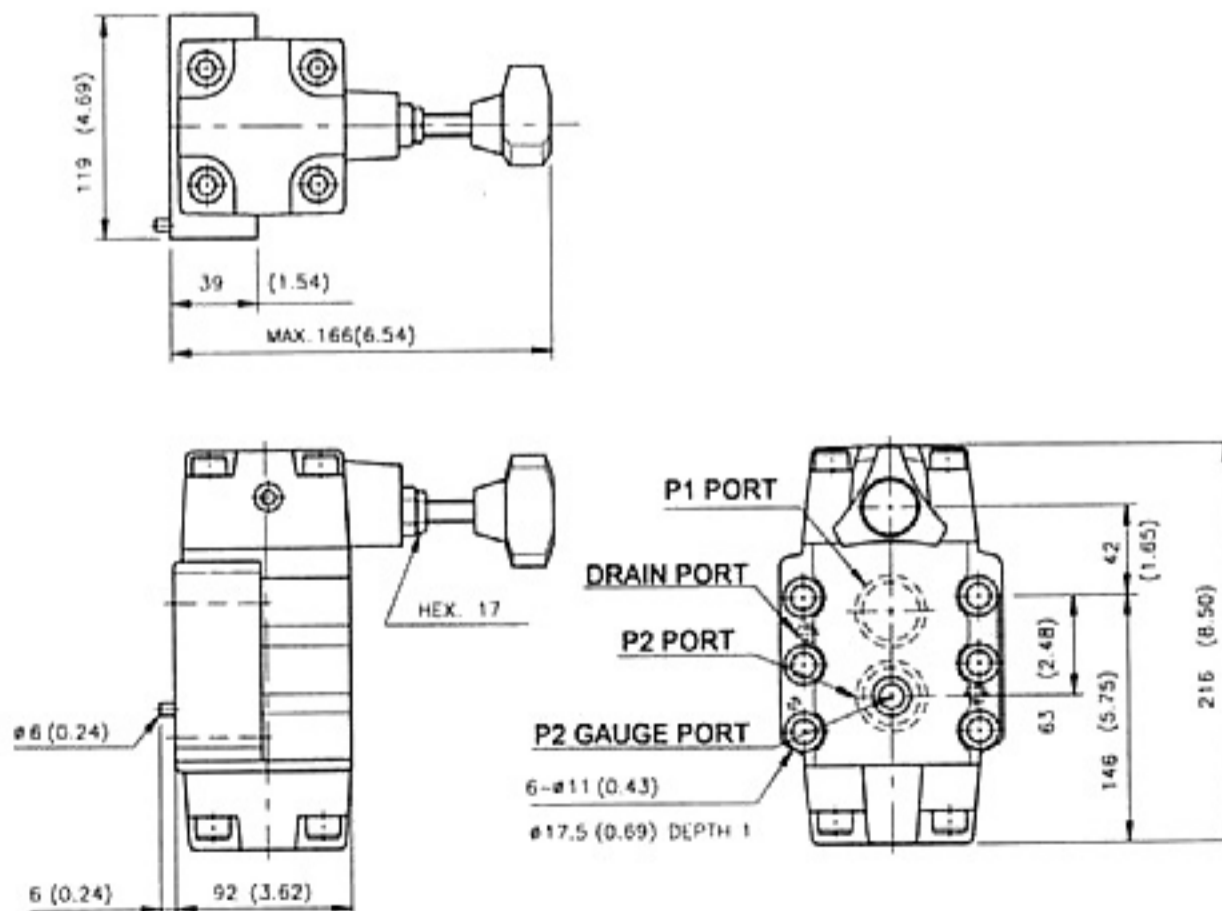
PRV-G03/06



MODEL	A	B	C	D	E	F	G	H	J	WEIGHT	
										KGS	LBS
PRV-03	164 (6.46)	42 (1.65)	89 (3.23)	44.5 (1.75)	67 (2.64)	155.5 (6.12)	92.4 (3.64)	40.6 (1.60)	35 (1.38)	4.5	10.1
PRV-G06	165.8 (6.53)	42 (1.65)	100 (3.94)	50 (1.97)	74 (2.91)	182 (7.17)	111 (4.37)	40 (1.57)	48 (1.89)	6.8	15.2

PRV-G10

WEIGHT : 11kgs(24.25lbs)

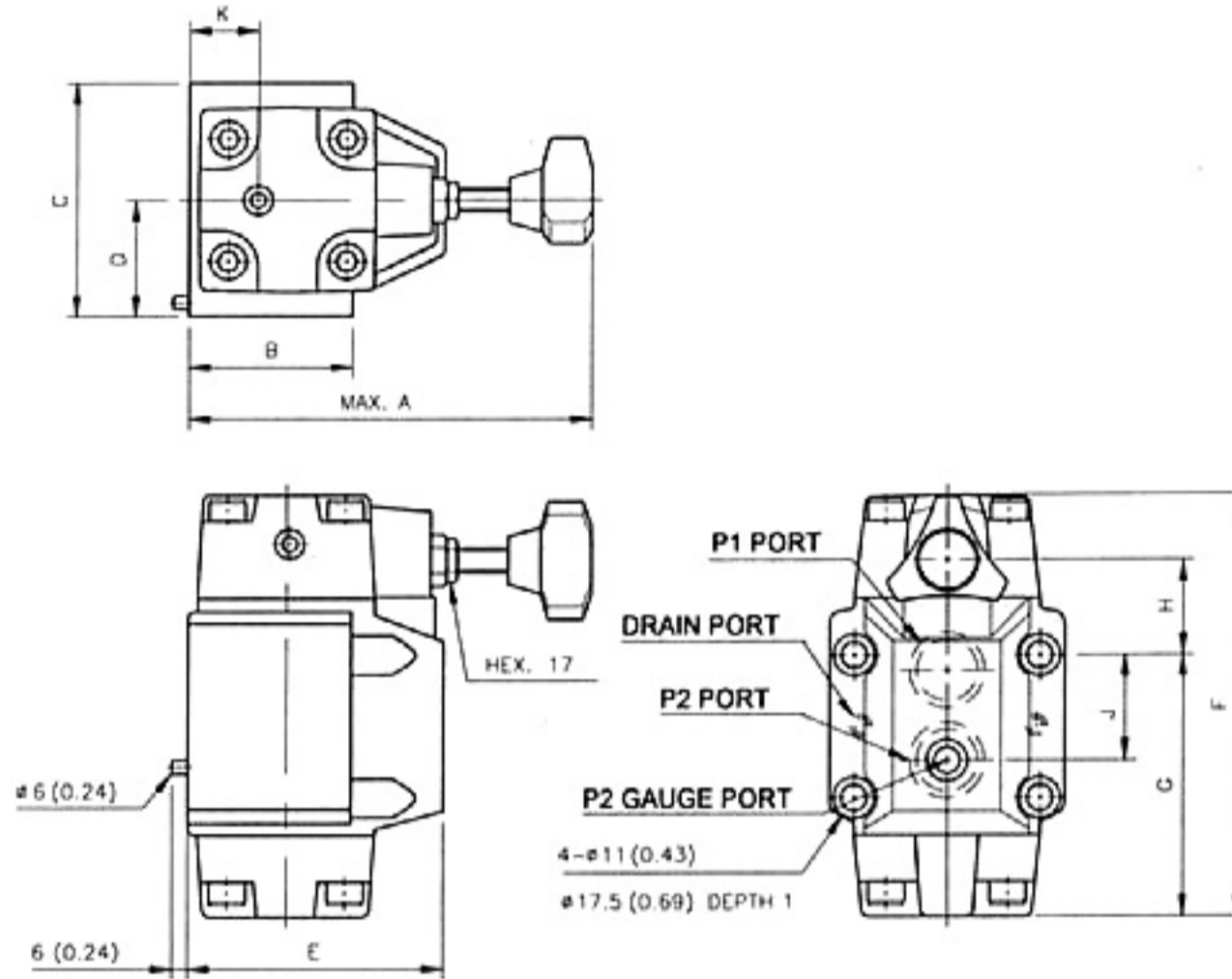


PRESSURE CONTROLS
PRESSURE REDUCING VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

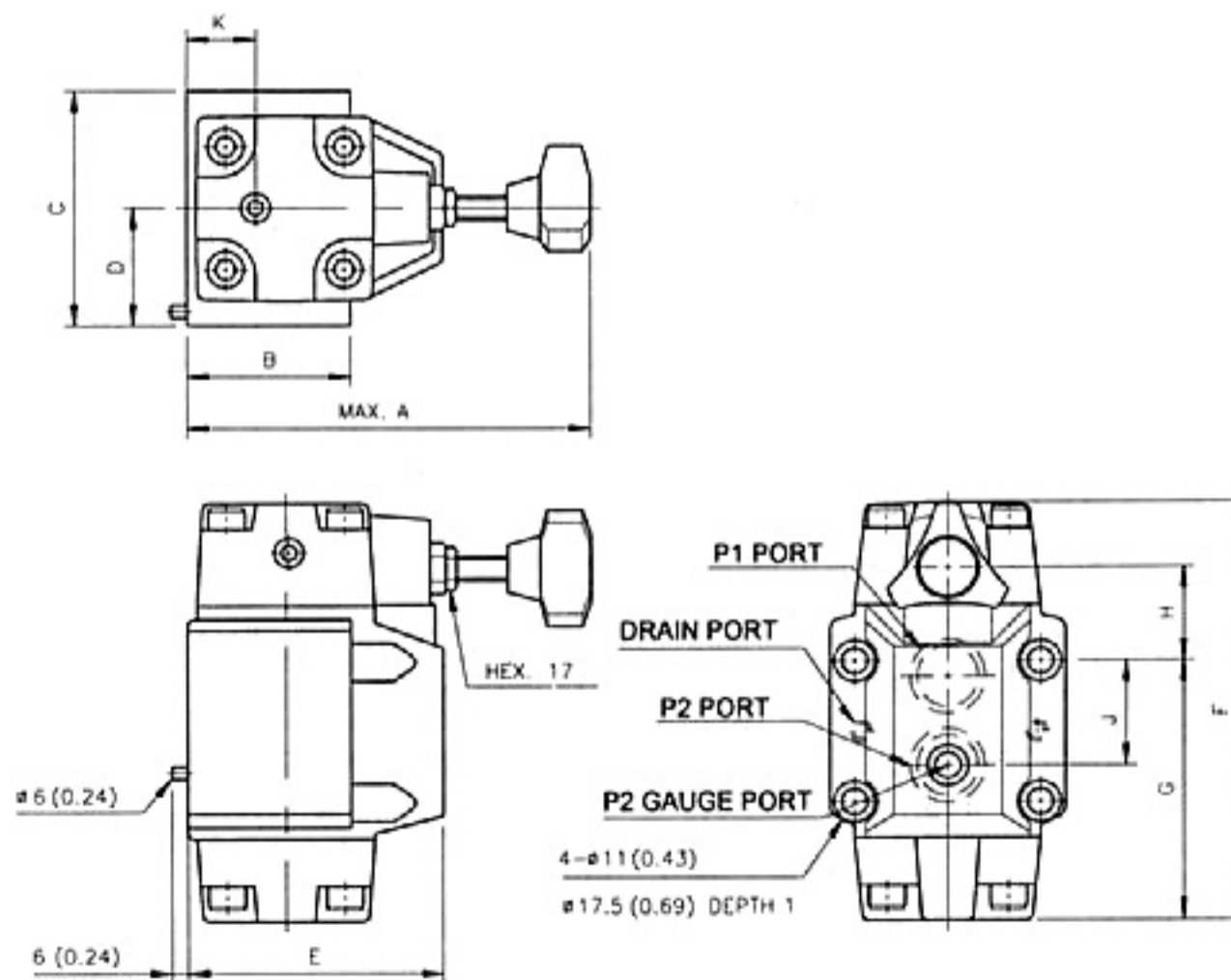
PRCV-G03/06



MODEL	A	B	C	D	E	F	G	H	J	K	WEIGHT	
											KGS	LBS
PRCV-G03	164 (6.46)	61 (2.40)	90 (3.54)	45 (1.77)	88 (3.46)	155 (6.10)	92.4 (3.64)	45 (1.77)	34.9 (1.37)	25 (0.98)	5.2	11.45
PRCV-G06	164 (6.46)	70.5 (2.78)	104 (4.09)	52 (2.05)	109 (4.29)	182 (7.17)	111 (4.37)	40 (1.57)	48 (1.89)	0	8.3	18.28

PRCV-G10

WEIGHT : 18.5kgs(40.78lbs)

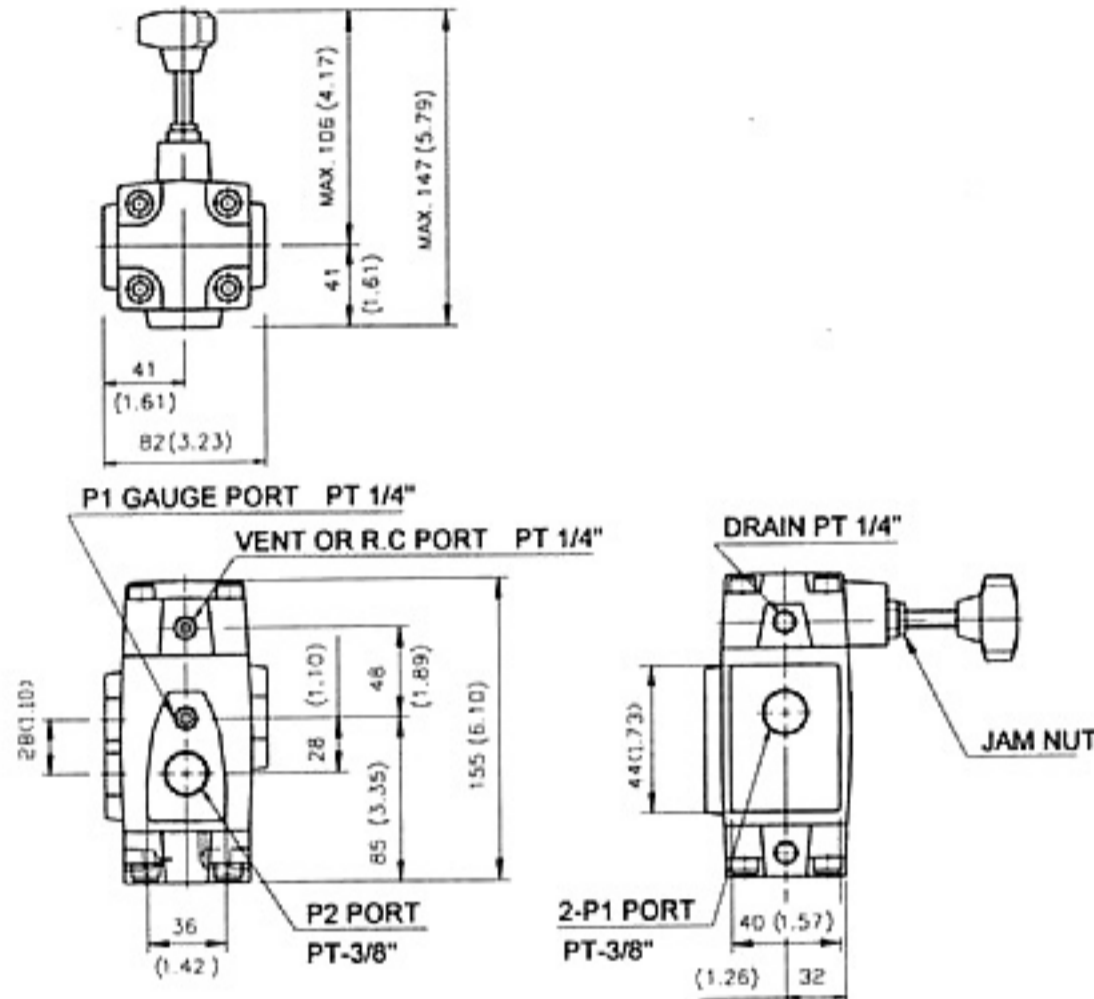




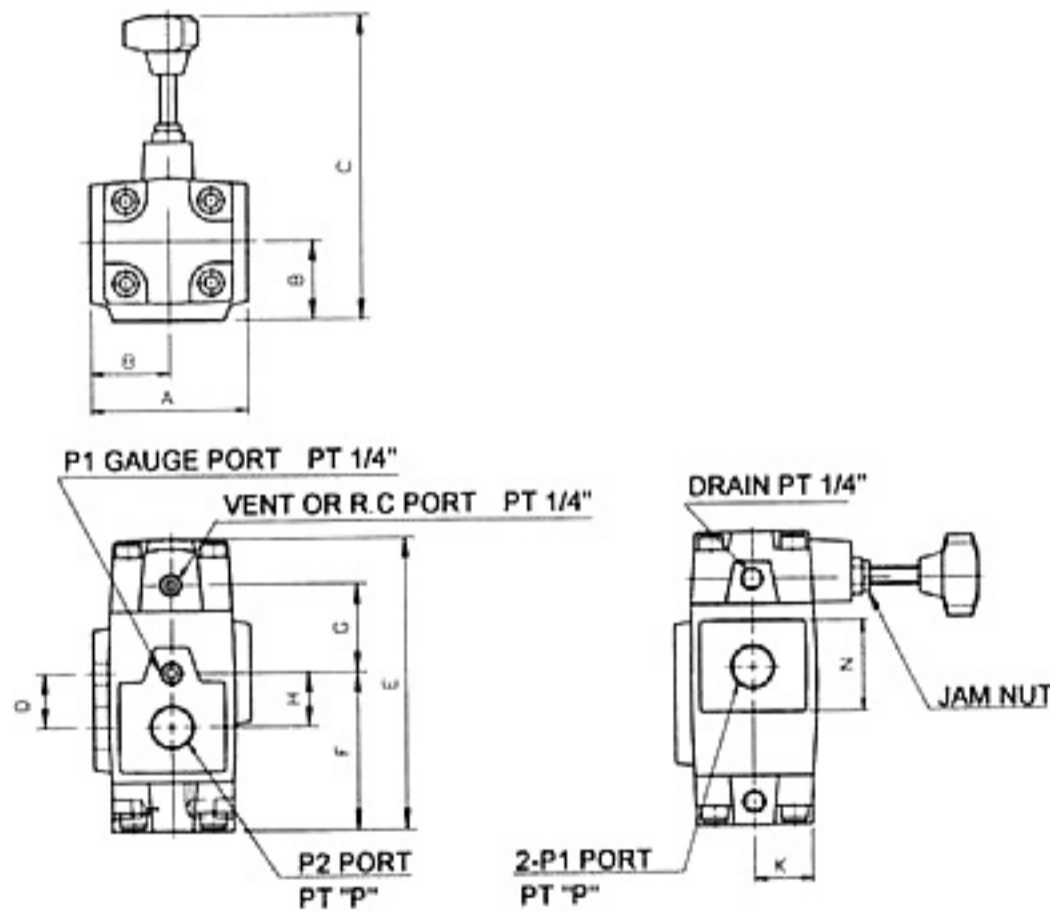
INSTALLATION DIMENSIONS

UNIT : mm(inch)
 WEIGHT : 4.3kgs(9.48lbs)

PRV-T03



PRV-T06/10



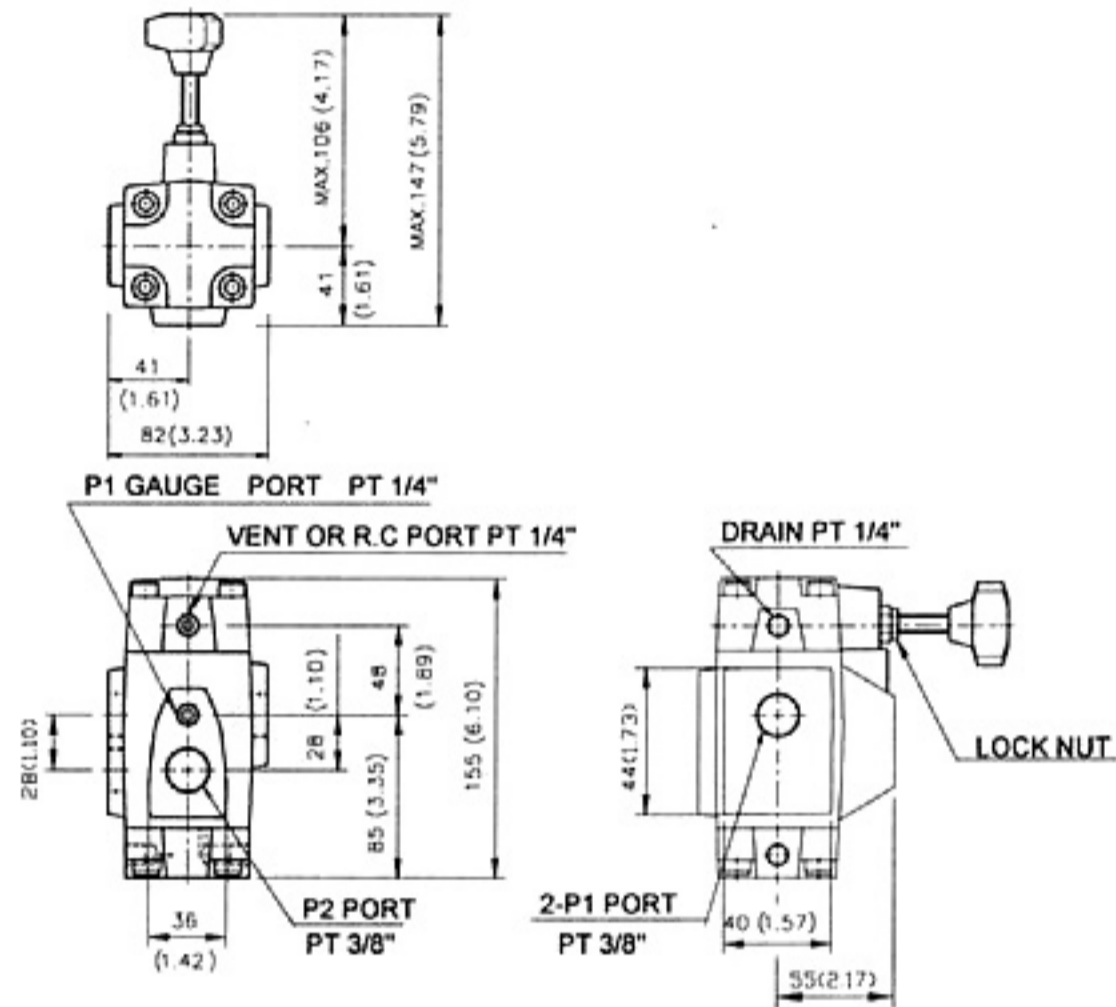
MODEL	A	B	C	D	E	F	G	H	K	N	P	WEIGHT	
												KGS	LBS
PRV-*T06	94.8 (3.73)	47.4 (1.87)	150 (5.90)	42 (1.65)	179 (7.06)	97 (3.83)	53.5 (2.11)	33 (1.30)	39 (1.54)	62 (2.44)	3/4	6.0	13.2
PRV-*T10	132 (5.20)	66 (2.60)	167 (6.57)	52 (2.05)	216 (8.50)	124 (4.88)	64 (2.52)	40 (1.57)	50 (1.97)	79 (3.11)	1 1/4	12.0	26.45

PRESSURE CONTROLS
PRESSURE REDUCING VALVE

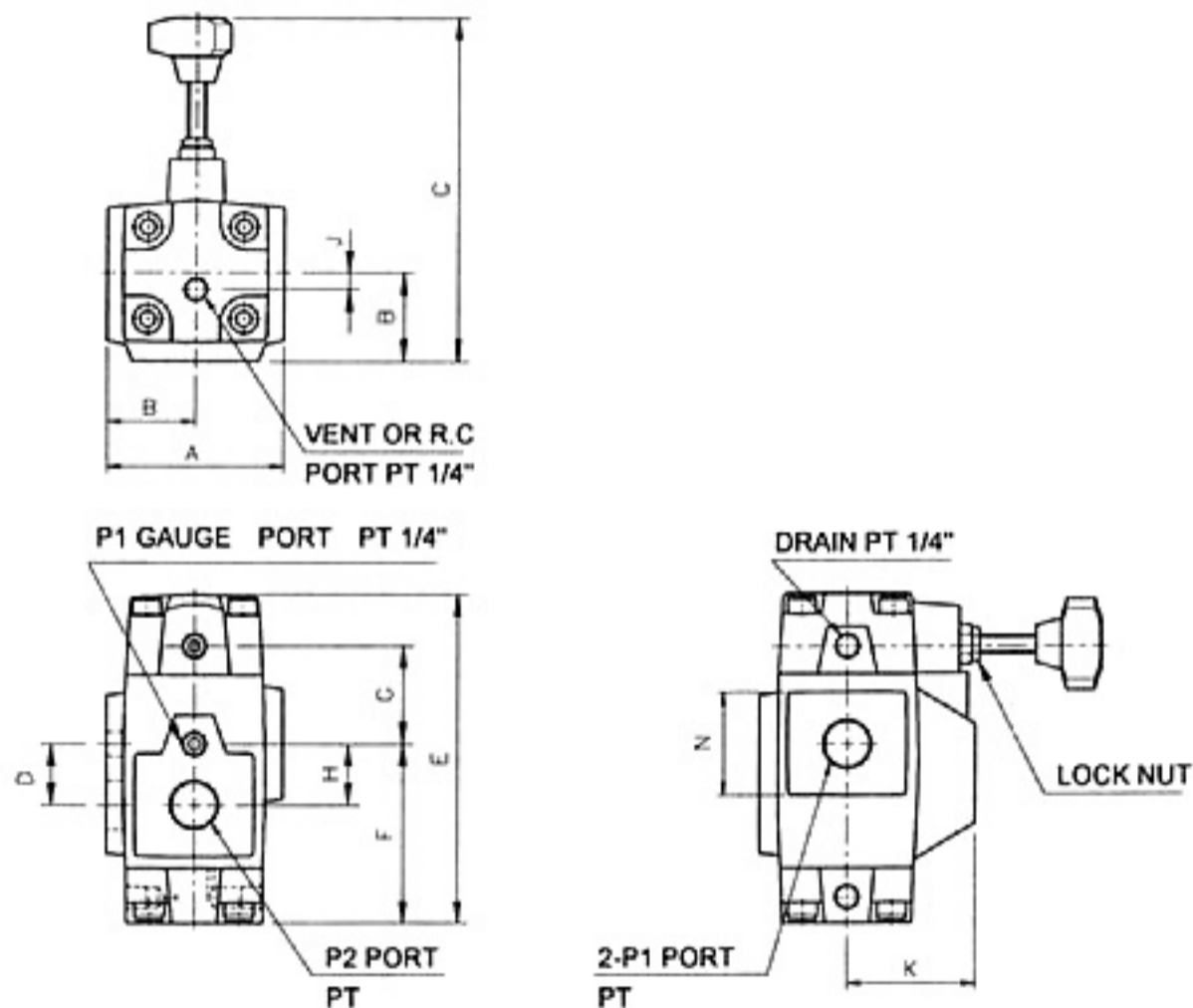
INSTALLATION DIMENSIONS

UNIT : mm(inch)
 WEIGHT : 4.8kgs(10.5lbs)

PRCV-*T03



PRCV-*T06 / 10



MODEL	A	B	C	D	E	F	G	H	J	K	N	P	WEIGHT	
													KGS	LBS
PRCV-*T06	94 (3.70)	48 (1.89)	150 (5.90)	42 (1.65)	179 (7.06)	97.5 (3.84)	44.5 (1.75)	42 (1.66)	9 (0.35)	66 (2.60)	62 (2.44)	3/4	7.8	17.1
PRCV-*T10	137 (5.40)	68.5 (2.70)	167 (6.57)	52 (2.05)	216 (8.50)	124 (4.88)	52 (2.04)	52 (2.04)	12 (0.47)	84 (3.31)	79 (3.11)	1 1/4	14.4	31.7



SYMBOLS



TV



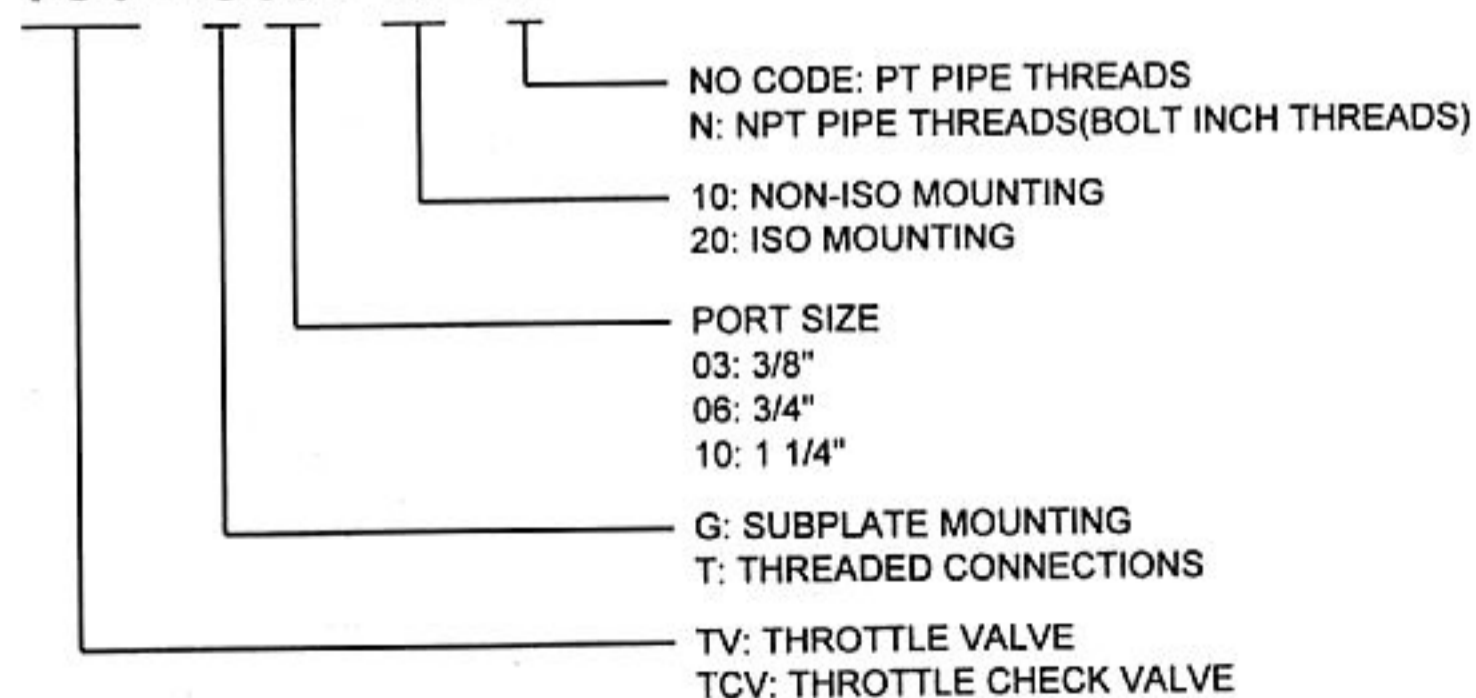
TCV

SPECIFICATION

MODEL NUMBERS		MAX. OPERATED	RATED FLOW LPM (GPM)	WEIGHT	
THREAD TYPE	SUBPLATE TYPE	PRESSURE KGF/CM ² (PSI)		KGS (LBS)	
TV-T03	TV-G03	210 (3000)	30 (8)	1.4(3.1)	1.5(3.1)
TCV-T03	TCV-G03			1.5(3.1)	2.1(4.6)
TV-T06	TV-G06		80 (20)	2.6(5.7)	2.7(6.0)
TCV-T06	TCV-G06			3.5(7.7)	4.0(8.8)
TV-T10	TV-G10		200 (50)	6.1(13.5)	5.2(11.5)
TCV-T10	TCV-G10			7.4(16.3)	8.1(17.8)

HOW TO ORDER

TCV - G03 - 10 - N



FLOW CONTROLS

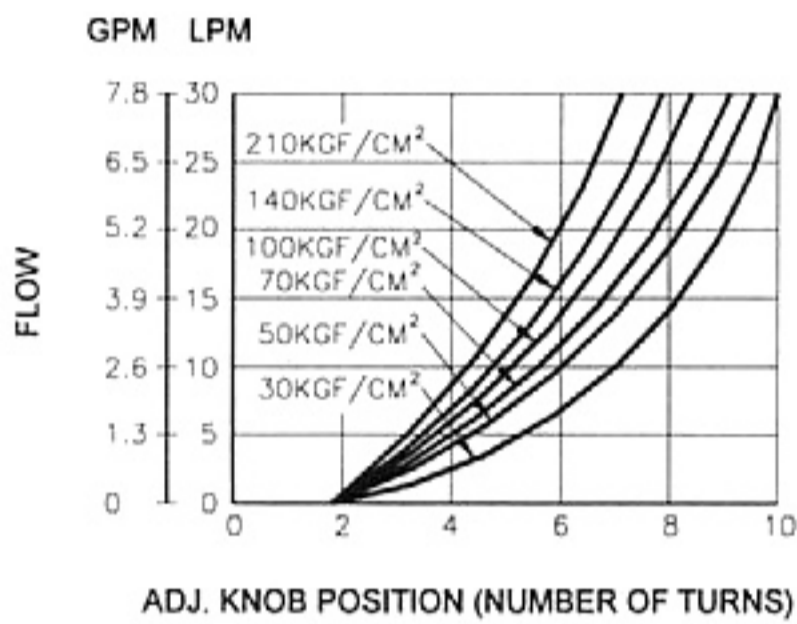
RESTRICTORS

PERFORMANCE CURVES

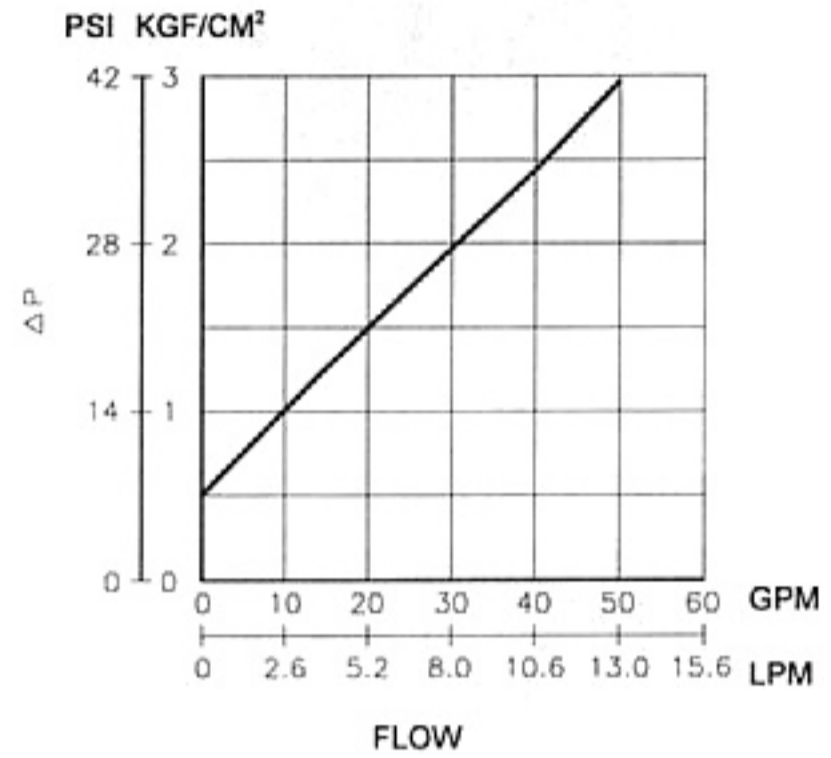
METERED FLOW vs. ADJUSTMENT REVOLUTIONS

PRESSURE DROP

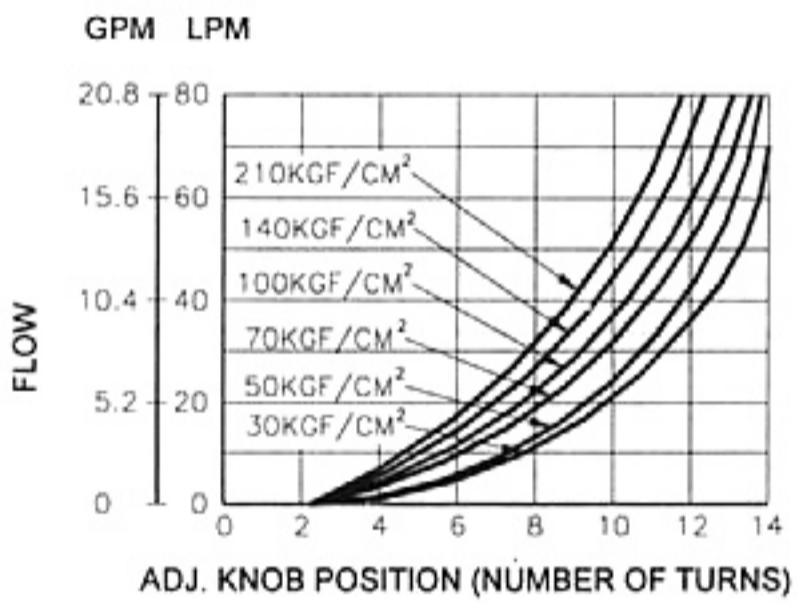
TV-*03 TCV-*03



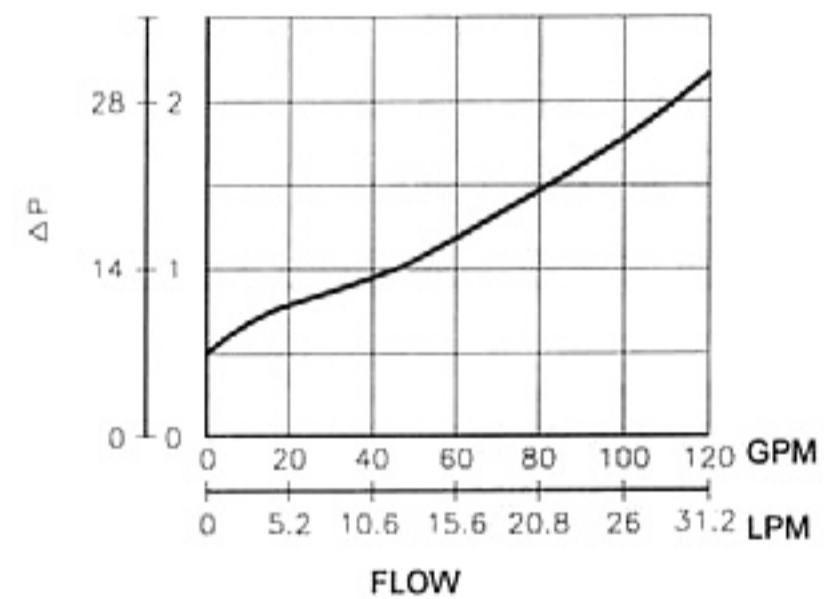
TV-*03 TCV-*03



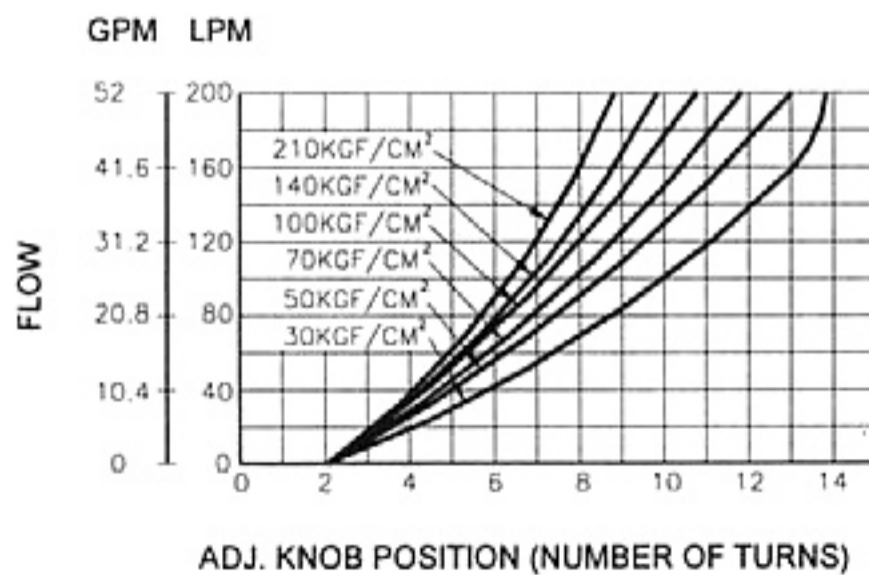
TV-*06 TCV-*06



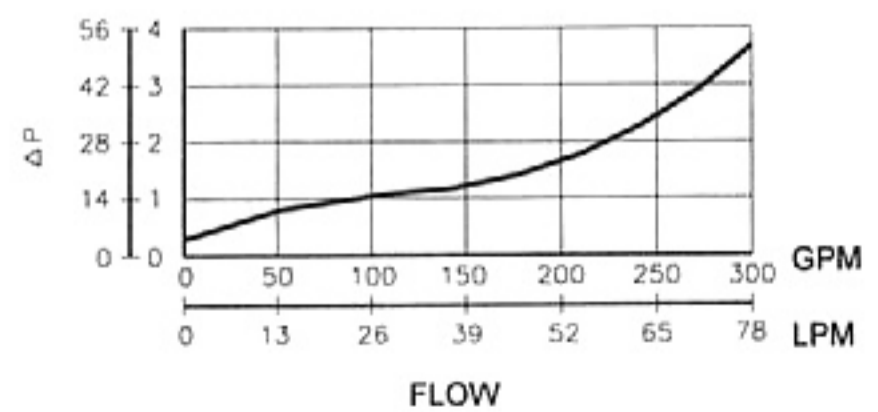
TV-*06 TCV-*06



TV-*10 TCV-*10



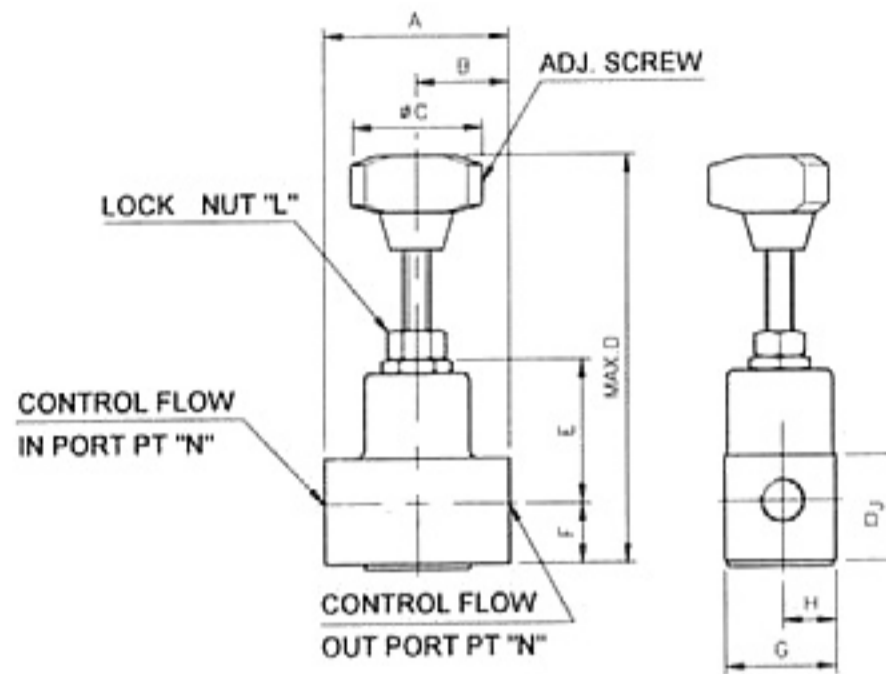
TV-*10 TCV-*10



INSTALLATION DIMENSIONS

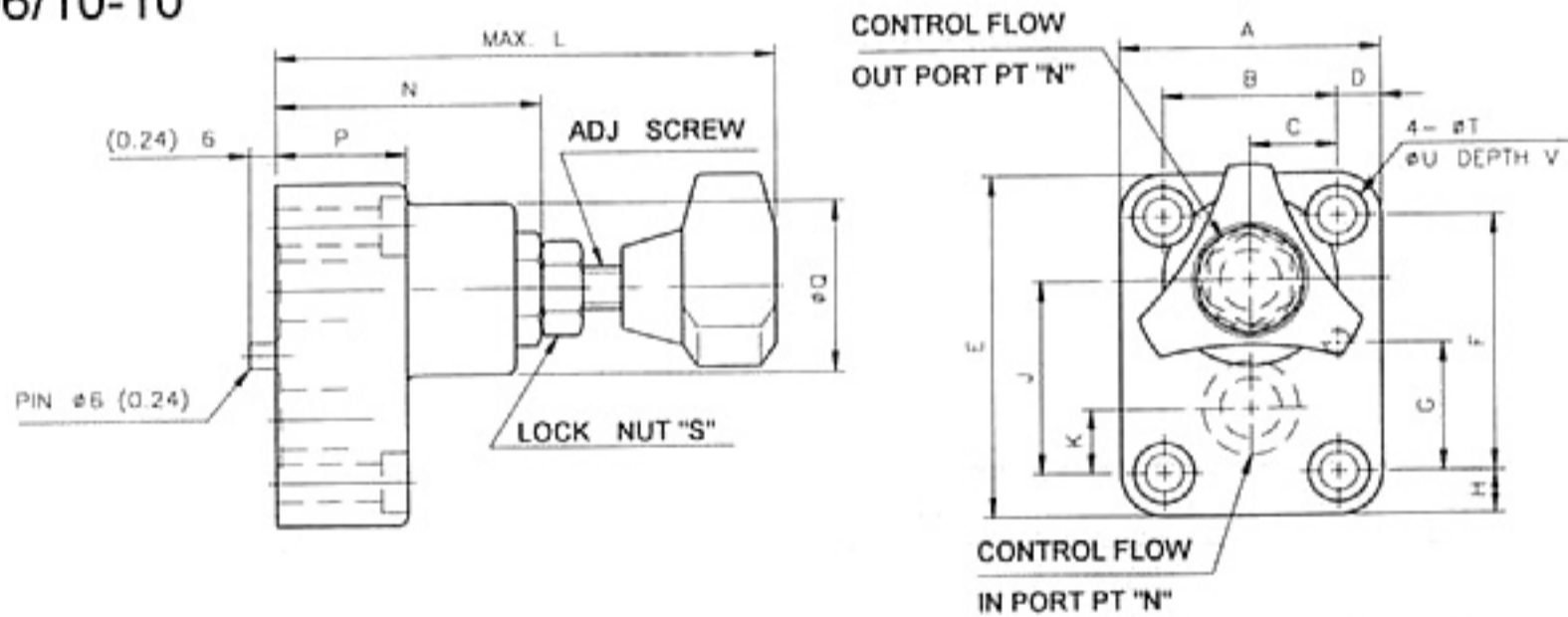
UNIT : mm(inch)

TV-T03/06/10-10



MODEL	A	B	C	D	E	F	G	H	J	L	N
TV-T03	70 (2.76)	35 (1.38)	40 (1.57)	143 (5.63)	54 (2.13)	23 (0.91)	42 (1.65)	20 (0.79)	40 (1.57)	19 (0.75)	3/8
TV-T06	100 (3.94)	50 (1.97)	40 (1.57)	136.5 (5.37)	62 (2.44)	30 (1.18)	62 (2.44)	30 (1.18)	60 (2.36)	19 (0.75)	3/4
TV-T10	130 (5.12)	65 (2.56)	56 (2.20)	173 (6.81)	73 (2.87)	40 (1.57)	82 (3.23)	40 (1.57)	80 (3.15)	22 (0.87)	1 1/4

TV-G03/06/10-10



MODEL	A	B	C	D	E	F	G	H	J
TV-G03	60 (2.36)	40 (1.57)	20 (0.79)	10 (0.39)	80 (3.14)	60 (2.36)	30 (1.18)	10 (0.39)	45 (1.77)
TV-G06	80 (3.15)	58 (2.28)	29 (1.14)	11 (0.43)	92 (3.62)	70 (2.76)	35 (1.38)	11 (0.43)	54 (2.13)
TV-G10	100 (3.94)	72 (2.83)	36 (1.42)	14 (0.55)	120 (4.72)	92 (3.62)	46 (1.81)	14 (0.55)	71 (2.80)

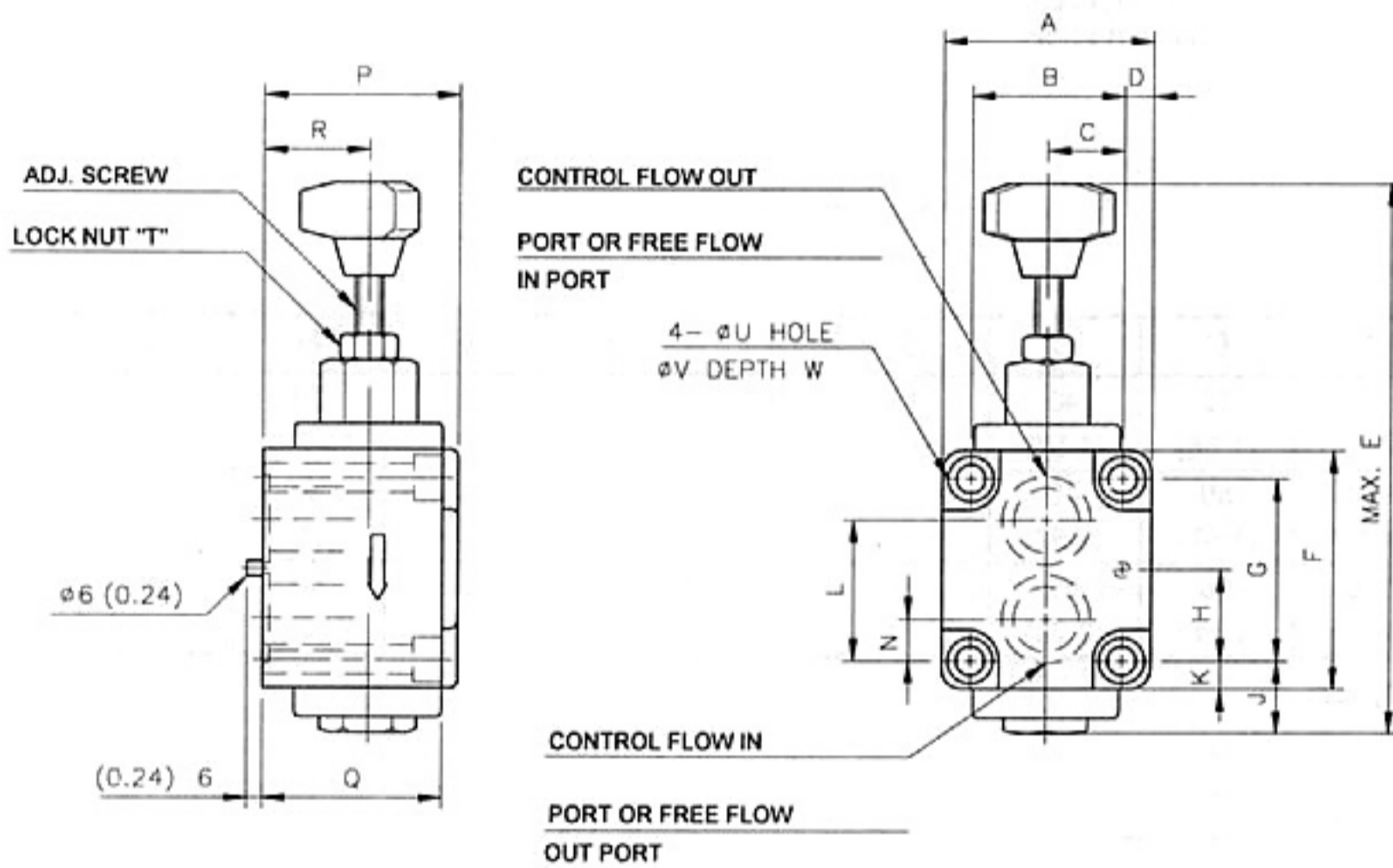
MODEL	K	L	N	P	Q	S	T	U	V
TV-G03	15 (0.59)	100 (3.94)	65 (2.56)	30 (1.18)	44 (1.73)	19 (0.75)	9 (0.35)	14 (0.55)	8.6 (0.34)
TV-G06	16 (0.63)	117.5 (4.63)	73 (2.87)	42 (1.65)	41.5 (1.63)	23 (0.90)	11 (0.43)	17.5 (0.69)	10.8 (0.43)
TV-G10	21 (0.83)	145 (5.71)	100 (3.94)	55 (2.17)	56 (2.20)	23 (0.90)	13.5 (0.53)	21 (0.83)	1.0 (0.04)

FLOW CONTROLS
RESTRICTORS

INSTALLATION DIMENSIONS

UNIT : mm(inch)

TCV-G03/06/10-10



MODEL	A	B	C	D	E	F	G	H	J
TCV-G03	60 (2.36)	40 (1.57)	20 (0.79)	10 (0.39)	179 (7.05)	80 (3.14)	60 (2.36)	30 (1.18)	28 (1.10)
TCV-G06	80 (3.15)	58 (2.28)	29 (1.14)	11 (0.43)	213 (8.39)	95 (3.74)	70 (2.76)	35 (1.38)	30 (1.18)
TCV-G10	100 (3.94)	72 (2.83)	36 (1.42)	14 (0.55)	228 (8.98)	120 (4.72)	92 (3.62)	46 (1.81)	31 (1.22)

MODEL	K	L	N	P	Q	R	T	U	V	W
TCV-G03	10 (0.39)	45 (1.77)	15 (0.59)	62 (2.44)	55 (2.17)	35 (1.38)	19 (0.75)	8.8 (0.35)	14 (0.55)	8.6 (0.34)
TCV-G06	11 (0.43)	54 (2.13)	16 (0.63)	74 (2.91)	68 (2.68)	40 (1.57)	19 (0.75)	11 (0.43)	17.5 (0.69)	10.8 (0.43)
TCV-G10	14 (0.55)	71 (2.80)	21 (0.83)	97 (3.82)	82 (3.23)	50 (1.97)	22 (0.87)	13.5 (0.53)	21 (0.83)	1 (0.04)

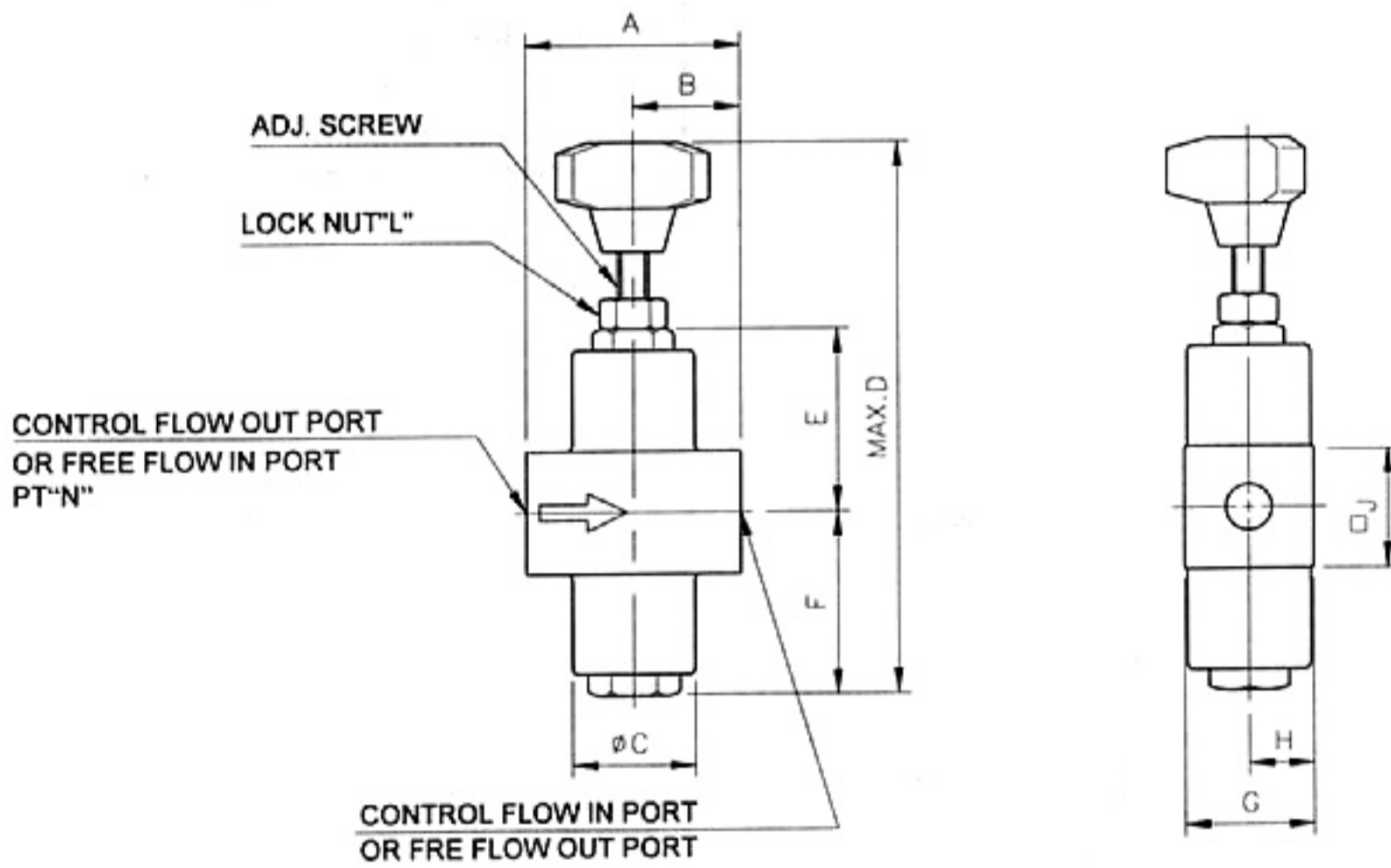


Northman

INSTALLATION DIMENSIONS

UNIT : mm(inch)

TCV-T03/06/10-10



MODEL	A	B	C	D	E	F	G	H	J	L	N
TCV-T03	70 (2.76)	35 (1.38)	40 (1.57)	180 (7.08)	62.5 (2.46)	58 (2.28)	42 (1.65)	21 (0.82)	40 (1.57)	19 (0.75)	3/8
TCV-T06	100 (3.94)	50 (1.97)	60 (2.36)	215 (8.46)	83 (3.27)	65 (2.56)	62 (2.44)	31 (1.22)	60 (2.36)	19 (0.75)	3/4
TCV-T10	130 (5.12)	65 (2.56)	80 (3.15)	228 (8.98)	106 (4.17)	77 (3.03)	82 (3.23)	41 (1.61)	80 (3.15)	22 (0.87)	1-1/4

FLOW CONTROLS

RESTRICTORS

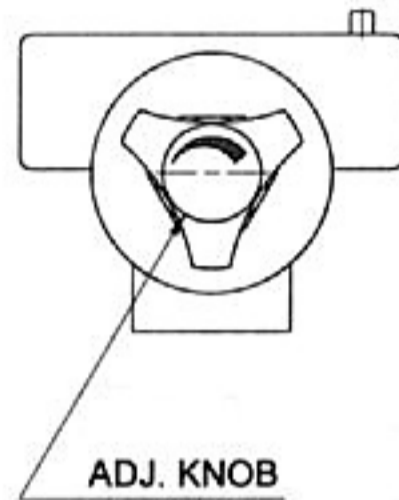
INSTALLATION DIMENSIONS

UNIT : mm(inch)

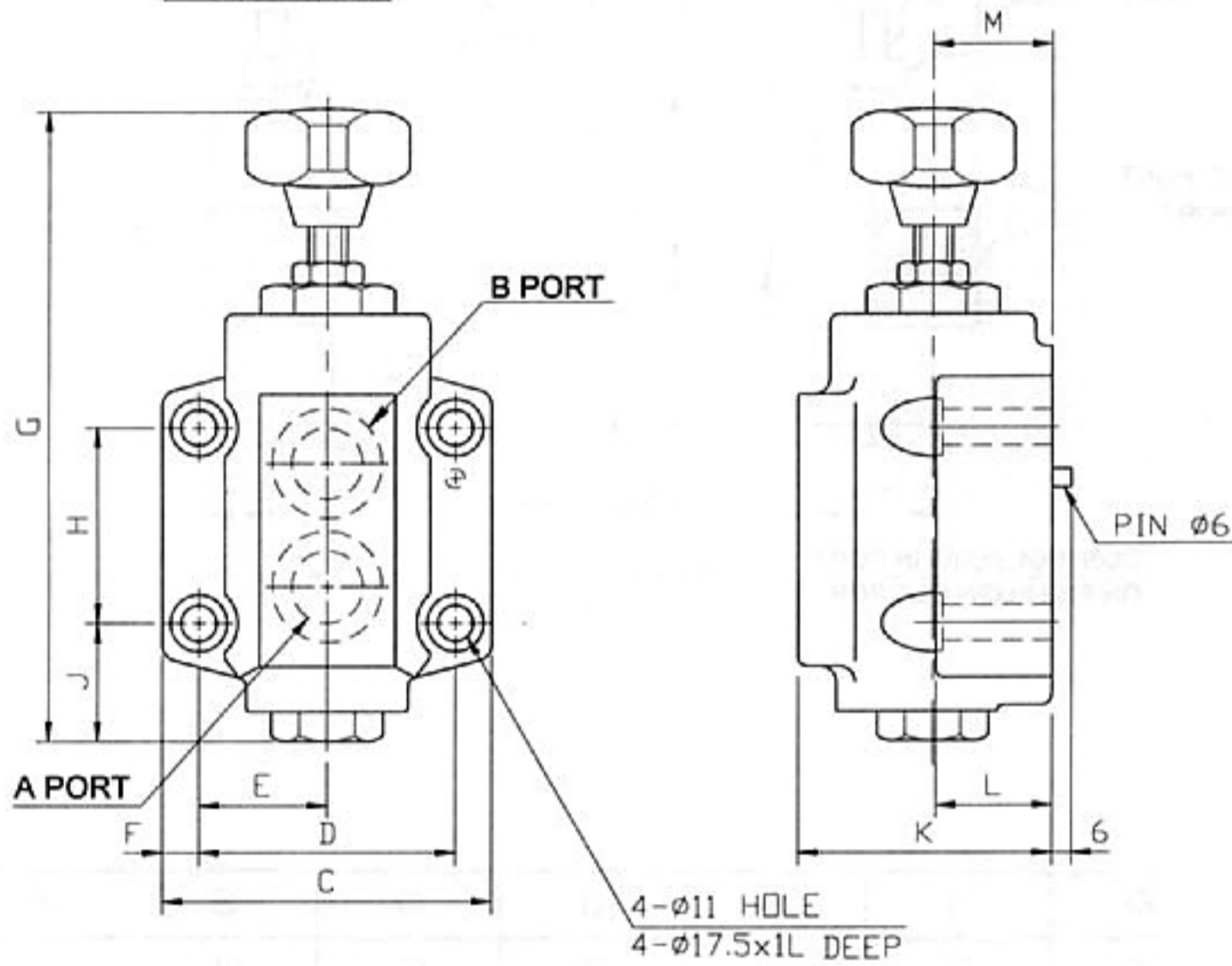
TV/TCV-G03/06

TV/TCV-G03: ISO 5781-AG-06-2-A

TV/TCV-G06: ISO 5781-AH-08-2-A



MODEL	A PORT	B PORT
TV - 03 - 06	CONTROL FLOW IN PORT	CONTROL FLOW OUT PORT
TCV - 03 - 06	CONTROL FLOW IN PORT OR FREE FLOW OUT PORT	CONTROL FLOW OUT PORT OR FREE FLOW IN PORT



MODEL	C	D	E	F	G	H	J	K
TV/TCV-G03	90(3.54)	66.7(2.63)	33.3(1.31)	11.7(0.46)	173(6.81)	42.9(1.69)	32(1.26)	64(2.52)
TV/TCV-G06	102(4.02)	79.4(3.13)	39.7(1.56)	11.3(0.44)	203(7.99)	60.3(2.37)	36.5(1.44)	79(3.11)

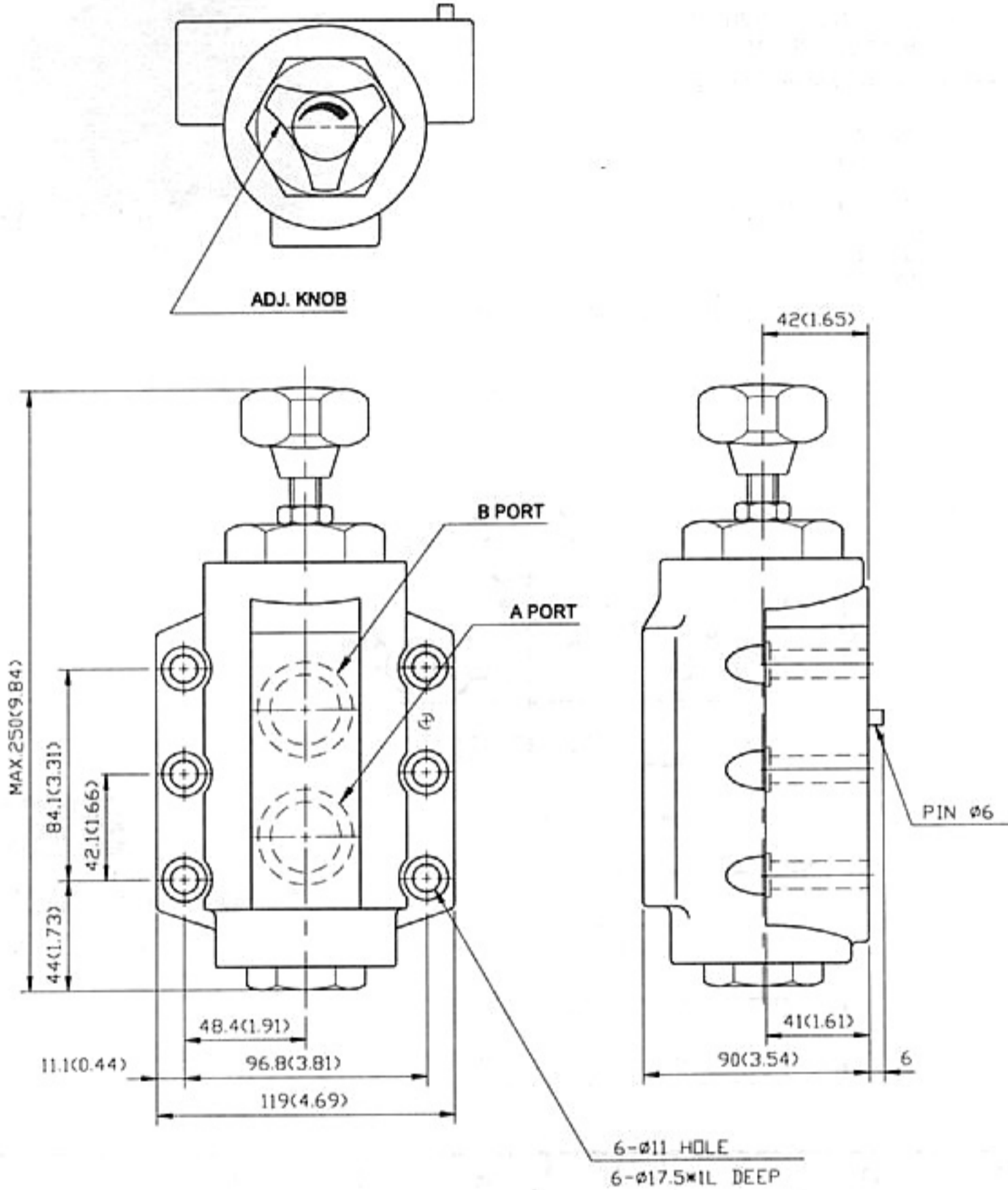
MODEL	L	M
TV/TCV-G03	31(1.22)	31(1.22)
TV/TCV-G06	36(1.42)	37(1.46)

INSTALLATION DIMENSIONS

UNIT : mm(inch)

TV/TCV-G10

TV/TCV-G10: ISO 5781-AJ-10-2-A



MODEL	A PORT	B PORT
TV-G10	CONTROL FLOW IN PORT	CONTROL FLOW OUT PORT
TCV-G10	CONTROL FLOW IN PORT OR FREE FLOW OUT PORT	CONTROL FLOW OUT PORT OR FREE FLOW IN PORT

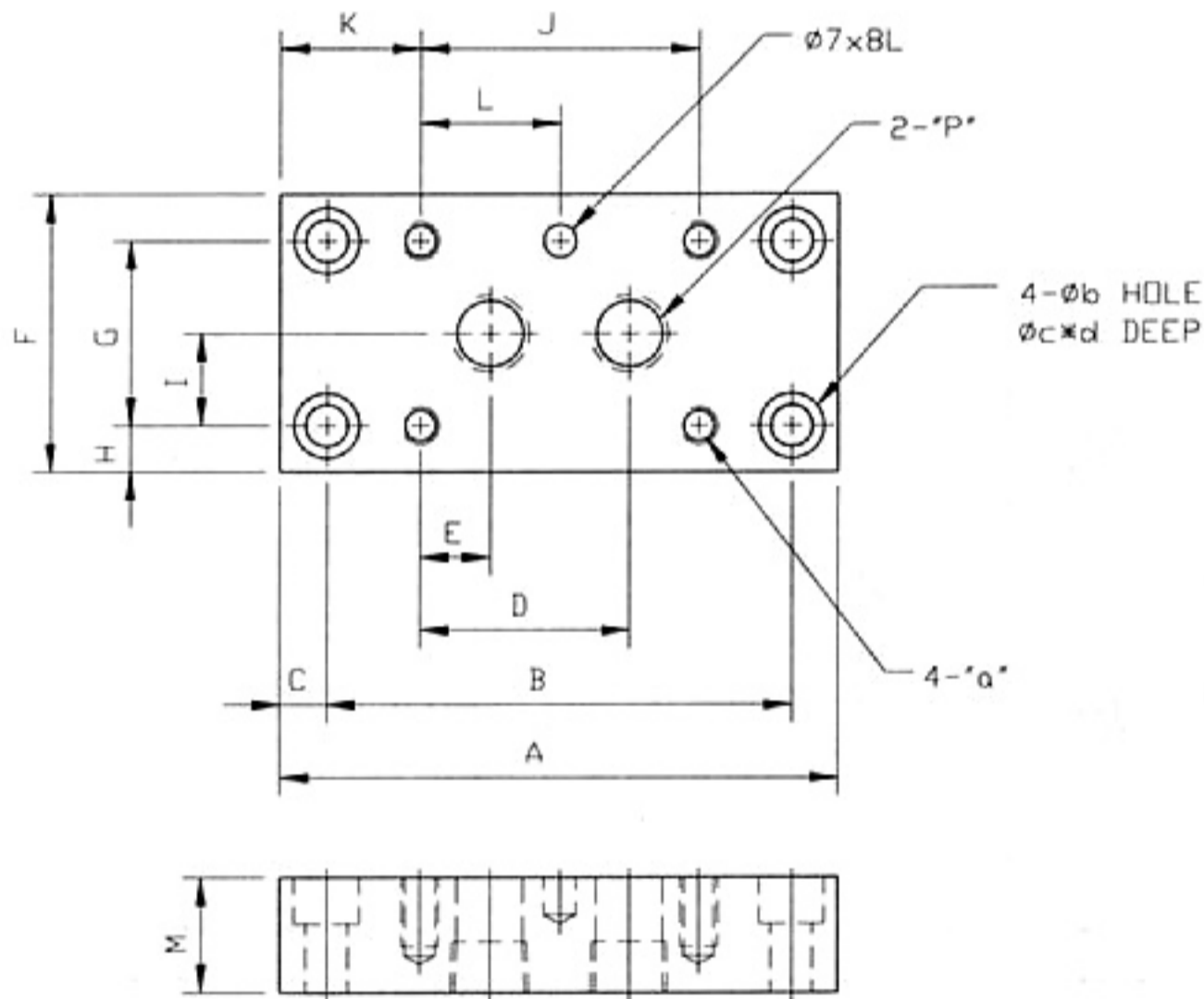
FLOW CONTROLS
RESTRICTORS

INSTALLATION DIMENSIONS

UNIT : mm(inch)

TVM - 03 - 03 - N

NO CODE: PT THREADS
N: NPT THREADS
SUBPLATE PORT SIZE
03: 3/8"
06: 3/4"
10: 1-1/4"
VALVE PORT SIZE
03: 3/8"
06: 3/4"
10: 1-1/4"
SUBPLATE FOR NON-ISO STANDARD TV/TCV

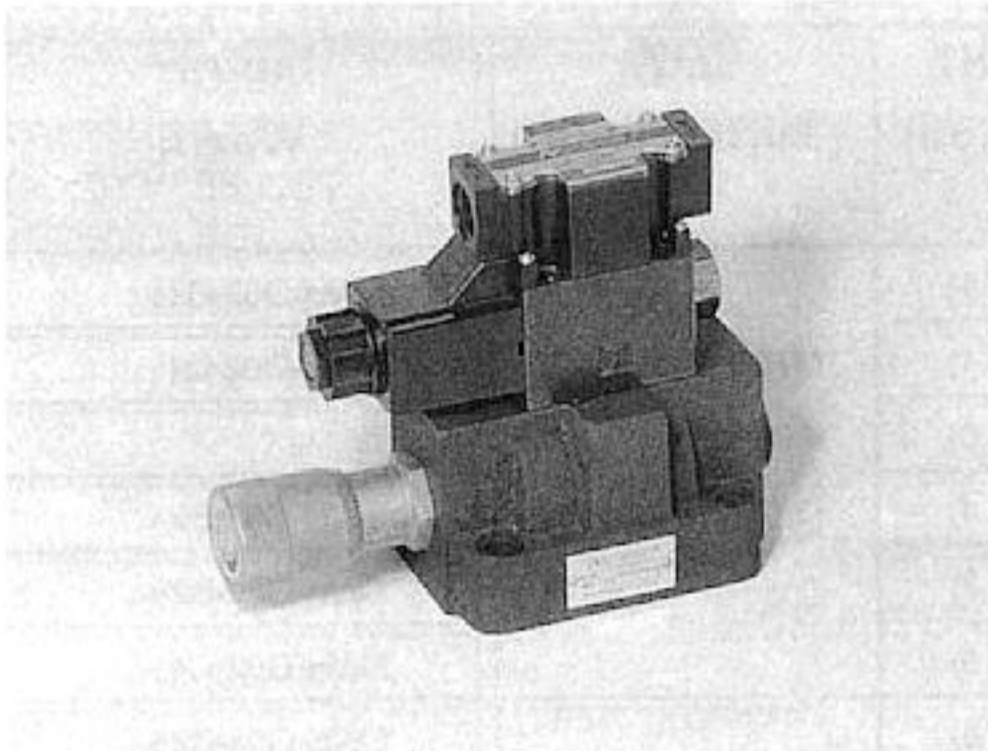


MODEL	A	B	C	D	E	F	G	H	I	J
TVM-03	120 (4.72)	100 (3.94)	10 (0.39)	45 (1.77)	15 (0.59)	60 (2.36)	40 (1.57)	10 (0.39)	20 (0.79)	60 (2.36)
TVM-06	134 (5.28)	110 (4.33)	12 (0.47)	54 (2.13)	16 (0.63)	82 (3.23)	58 (2.28)	12 (0.47)	29 (1.14)	70 (2.76)
TVM-10	160 (6.30)	132 (5.20)	14 (0.55)	71 (2.80)	21 (0.83)	100 (3.94)	72 (2.83)	14 (0.55)	36 (1.42)	92 (3.62)

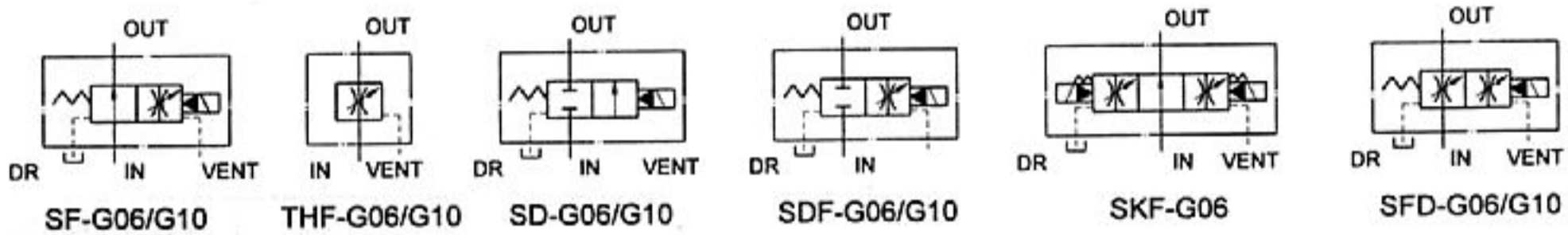
MODEL	K	L	M	P	a	b	c	d
TVM-03	30 (1.18)	30 (1.18)	25 (0.98)	3/8"	M8x15L 5/16"x0.6"L	9 (0.35)	14 (0.55)	10 (0.39)
TVM-06	32 (1.26)	35 (1.38)	32 (1.26)	3/4"	M10x20L 3/8"x0.8"L	11 (0.43)	18 (0.71)	12 (0.47)
TVM-10	34 (1.34)	46 (1.81)	50 (1.97)	1-1/4"	M12x35L 1/2"x1.4"L	13 (0.51)	20 (0.79)	14 (0.55)

FEATURES

- SF, SDF, SD, SKF, SFD ARE SOLENOID OPERATED FLOW CONTROL VALVES WHICH ARE MOST OFTEN USED PLASTIC INJECTION MOLDING MACHINES AND HYDRAULIC PRESSES.
- SF VALVE IS AN ADJUSTABLE FLOW CONTROL VALVE WITH SOLENOID DIRECTIONAL CONTROL VALVE BUILT TOGETHER. NORMALLY IT CONTROLS THE FLOW RATE AS ADJUSTED, BUT PERMITS FREE FLOW WHEN SOLENOID IS ENERGIZED.
- SDF IS A VALVE NORMALLY BLOCKED, BUT PERMITS FLOW TO PASS AT THE ADJUSTED RATE WHEN SOLENOID IS ENERGIZED. VENT PORT SHALL BE CONNECTED TO THE R.C. PORT (VENT PORT) OF MAIN RELIEF. TO REACH THE EFFECT OF LOAD SENSING, WILL GREATLY CONSERVE ENERGY.

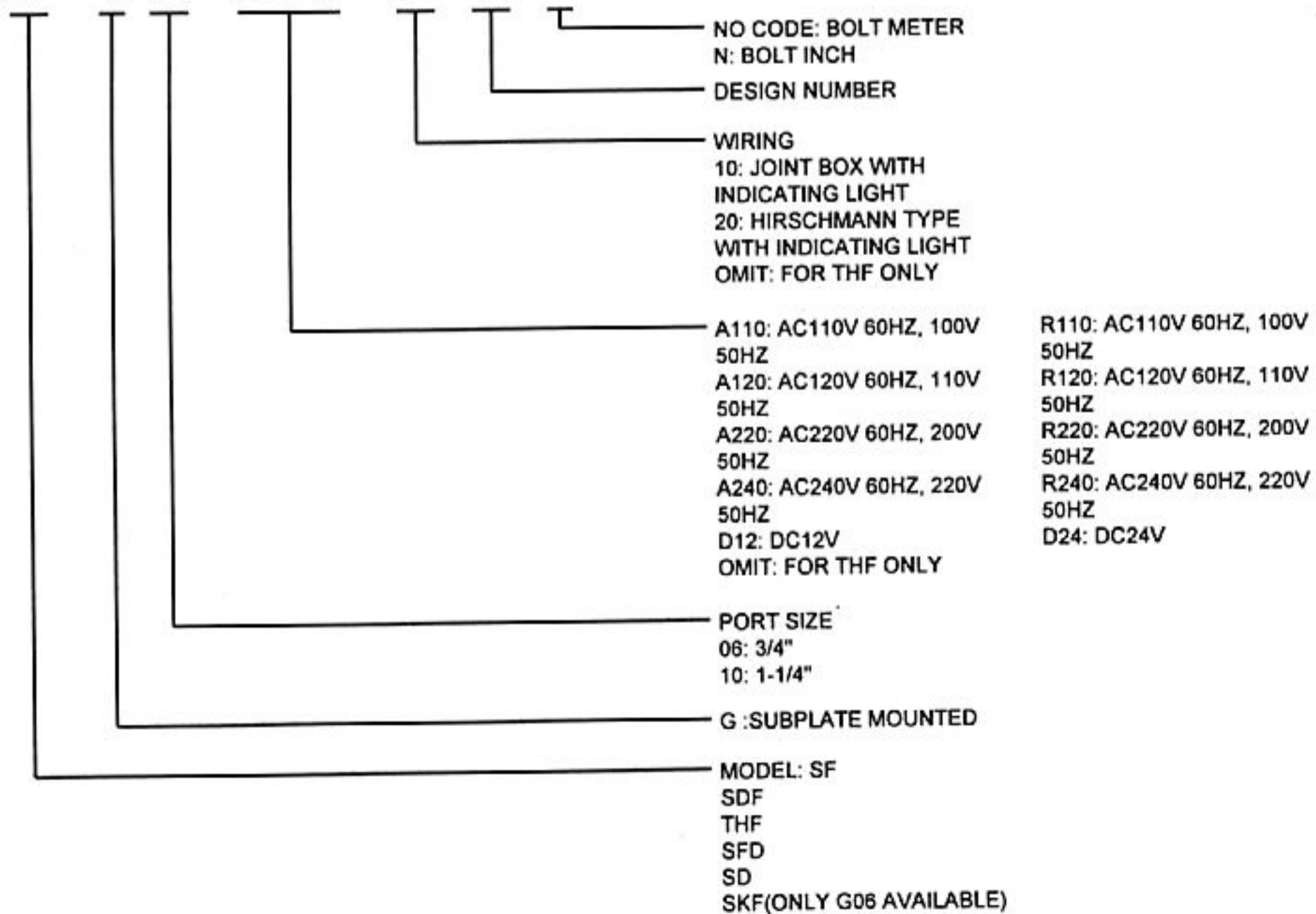


SYMBOLS



HOW TO ORDER

SF - G 06 - A220 - 10 - 10 - N



FLOW CONTROLS

SOLENOID OPERATED FLOW CONTROL VALVE

SPECIFICATIONS

MODEL	MAX.OPERATED PRESSURE KGF/CM ² (PSI)	MAX.FLOW LPM (GPM)	WEIGHT KGS(LBS)	BLOT METER (INCH)	PILO T VALVE
SF-G06	210 (3000)	120 (30)	6.4 (14.1)	M10 x 1.5P x 45L 4 PCS (3/8"x1-3/4)	SWH-G02-B2S
SFD-G06			6.4 (14.1)		SWH-G02-B2
THF-G06			5.0 (11.0)		--
SD-G06			6.1 (13.4)		SWH-G02-B2
SFD-G06			6.7 (14.7)		SWH-G02-B2S
SKF-G06			7.5 (16.5)		SWH-G02-C4
SF-G10		240 (60)	4 PCS (1/2" x 2-1/4)	9.9 (21.8)	SWH-G02-B2S
SDF-G10				9.9 (21.8)	SWH-G02-B2
THF-G10				8.4 (18.5)	--
SD-G10				9.4 (20.7)	SWH-G02-B2
SFD-G10				10.4 (22.9)	SWH-G02-B2S

SOLENOID RATING

ELECTRIC SOURCE	COIL TYPE	HZ	VOLTAGE(V)		CURRENT & POWER AT RATED VOLTAGE		
			SOURCE RATED	RANGE	IN- RUSH CURRENT (A)	HOLDING CURRENT (A)	WATTAGE
A.C	A110	50	100	90-110	1.6	0.46	
		60	100	90-110	1.4	0.32	
			110	99-121	1.5	0.39	
	A120	50	110	99-121	1.3	0.38	
		60	120	108-132	1.2	0.27	
	A220	50	200	180-220	0.80	0.23	
		60	200	180-220	0.70	0.16	
			220	198-242	0.75	0.19	
	A240	50	220	198-242	0.67	0.19	
		60	240	216-264	0.59	0.13	
	R110	50	100	90-110	0.3	0.44	
		60	110	99-121	0.3	0.3	
	R220	50	200	180-220	0.15	0.19	
		60	220	198-242	0.15	0.15	
D.C	D12	12		10.8-13.2	2.2	2.2	26
	D24	24		21.6-26.4	1.1	1.1	

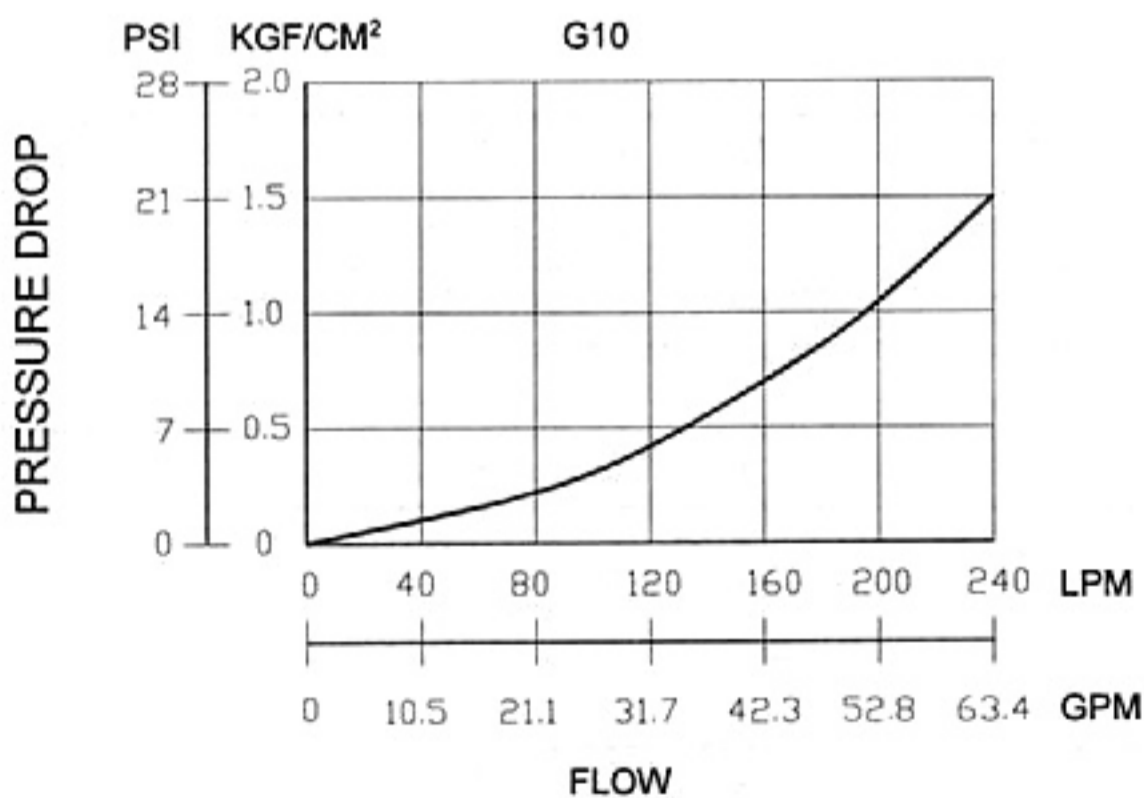
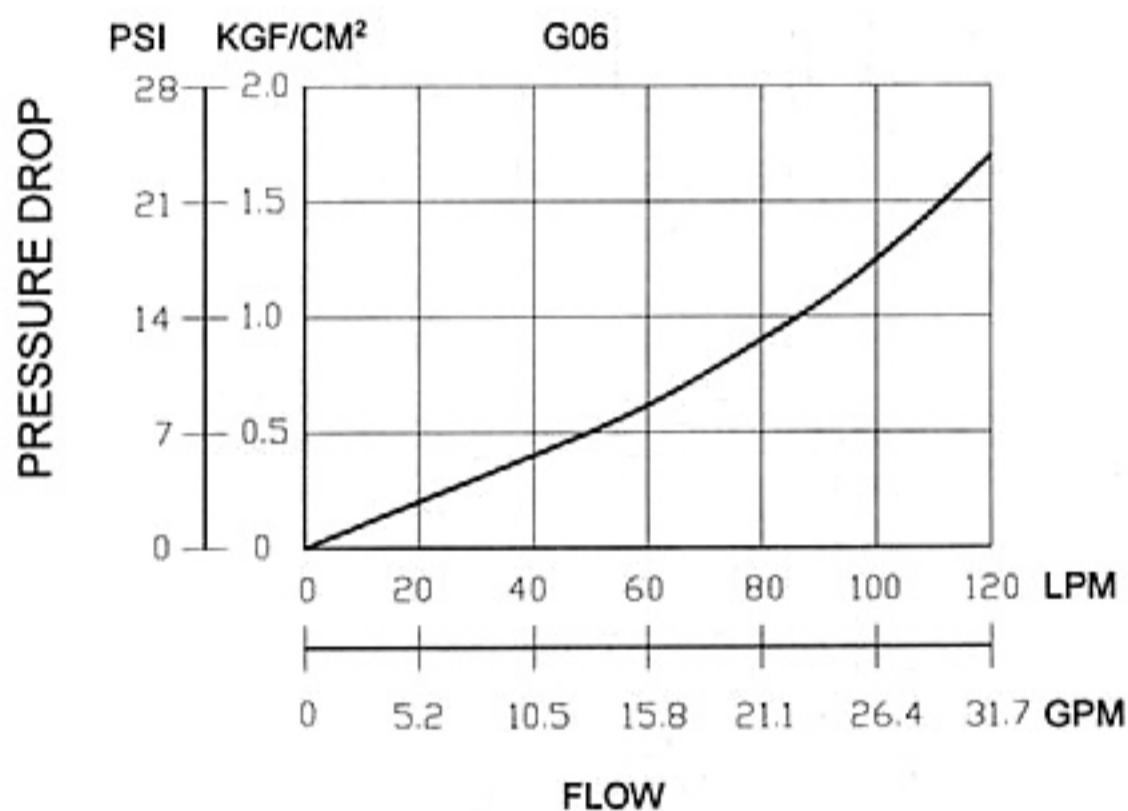


Northman

PERFORMANCE CURVES

TEST CONDITIONS
VISCOSITY: 35 CST
TEMPERATURE: 50°C

PRESSURE DROP FOR FREE FLOW



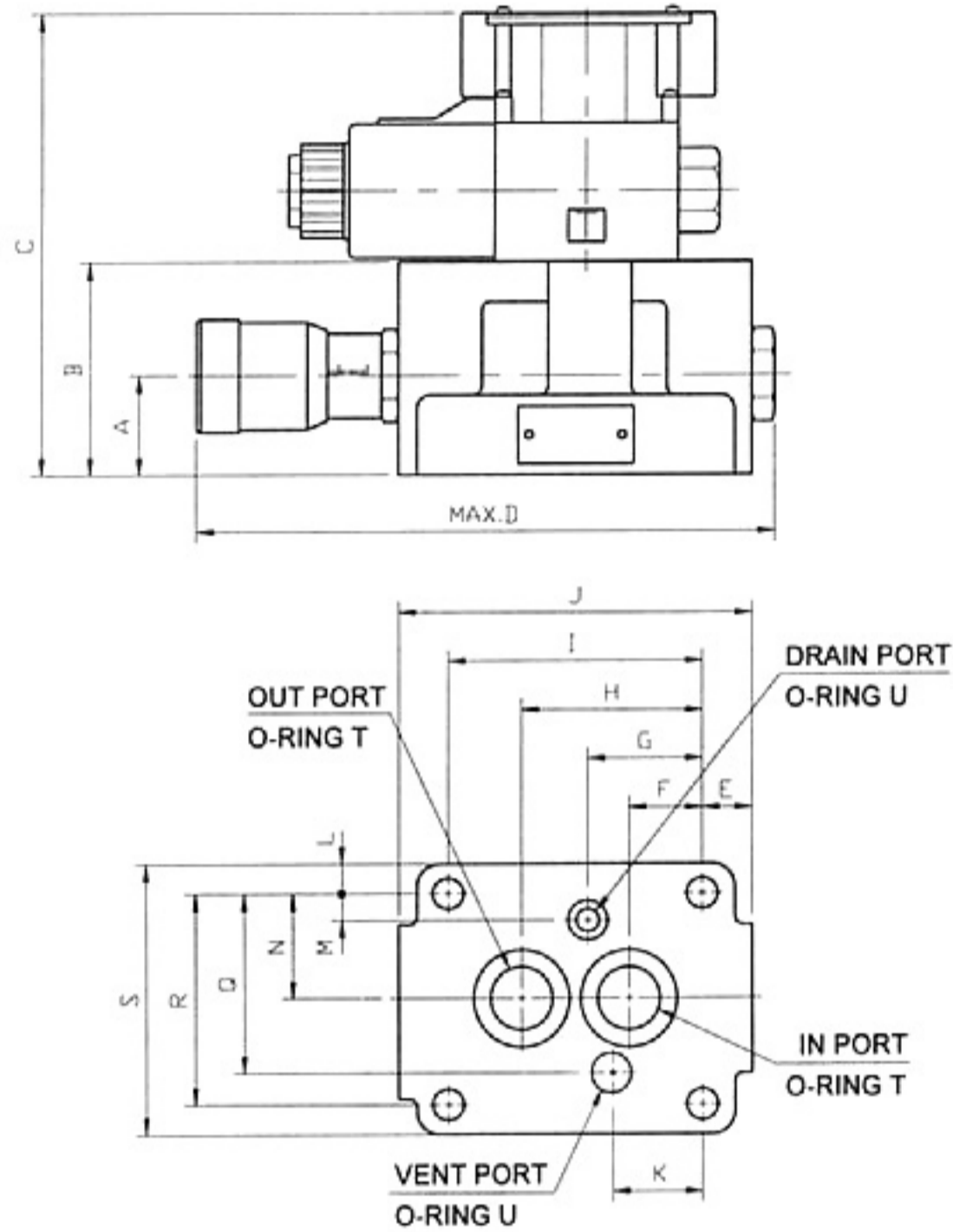
FLOW CONTROLS

SOLENOID OPERATED FLOW CONTROL VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SF-G06/G10



MODEL	A	B	C	D	E	F	G
SF-G06	35(1.38)	75(2.95)	162.5(6.4)	209(8.23)	17.5(0.69)	26(1.02)	40.5(1.59)
SF-G10	40(1.57)	86(3.39)	173.5(6.8)	248(9.76)	19(0.75)	34(1.34)	47(1.85)

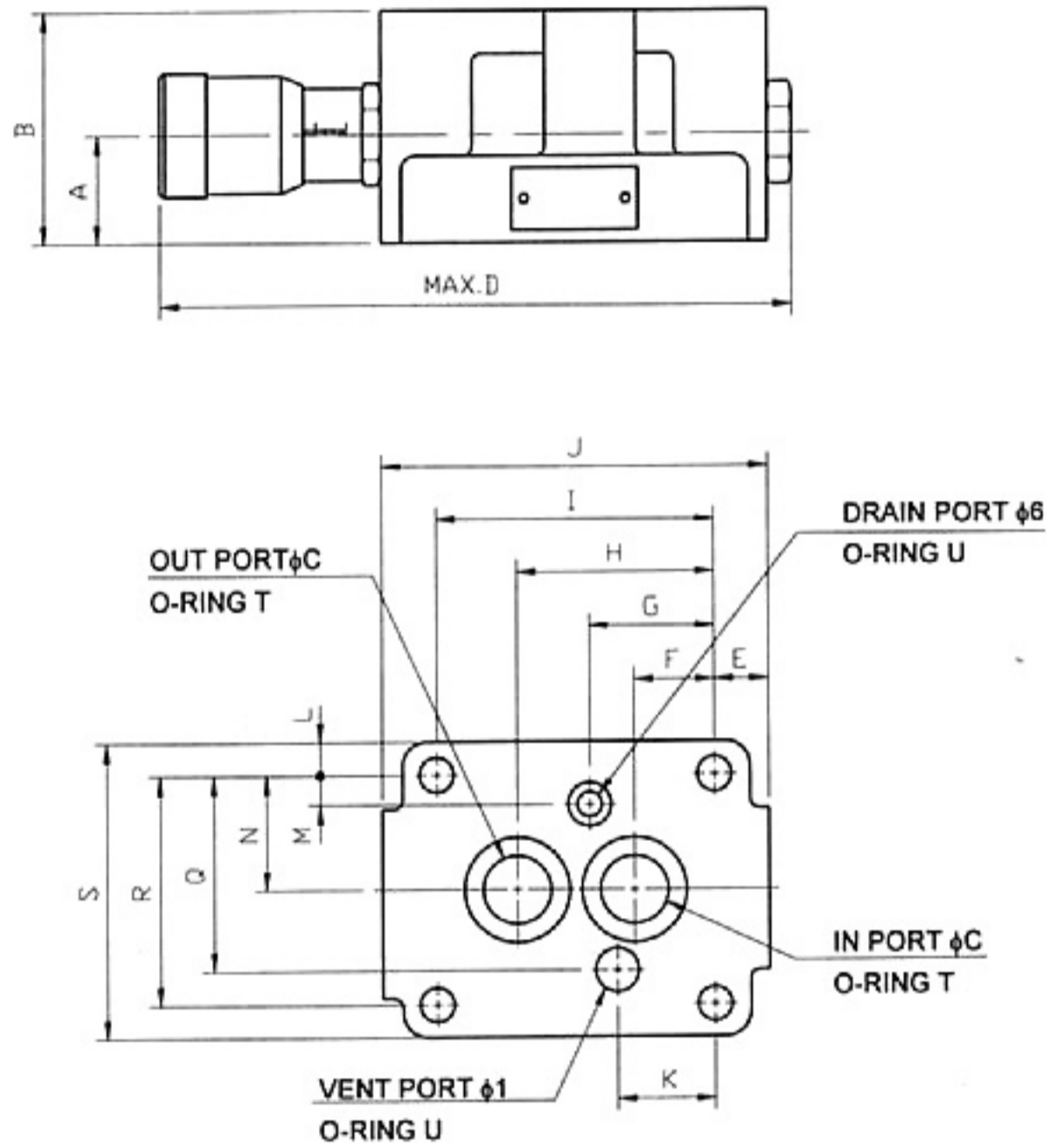
MODEL	H	I	J	K	L	M	N
SF-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)
SF-G10	78(3.07)	112(4.41)	150(5.91)	37.9(1.49)	14.5(0.57)	16(0.63)	43(1.69)

MODEL	Q	R	S	T	U
SF-G06	63(2.48)	74(2.91)	95(3.74)	P29	P12
SF-G10	76(2.99)	86(3.39)	115(4.53)	P34	P12

INSTALLATION DIMENSIONS

UNIT : mm(inch)

THF-G06/G10



MODEL	A	B	C	D	E	F	G
THF-G06	35(1.38)	75(2.95)	φ26(1.02)	209(8.23)	17.5(0.69)	26(1.02)	40.5(1.59)
THF-G10	40(1.57)	86(3.39)	φ29(1.14)	248(9.76)	19(0.75)	34(1.34)	47(1.85)

MODEL	H	I	J	K	L	M	N
THF-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)
THF-G10	78(3.07)	112(4.41)	150(5.91)	37.9(1.49)	14.5(0.57)	16(0.63)	43(1.69)

MODEL	Q	R	S	T	U
THF-G06	63(2.48)	74(2.91)	95(3.74)	P29	P12
THF-G10	76(2.99)	86(3.39)	115(4.53)	P34	P12

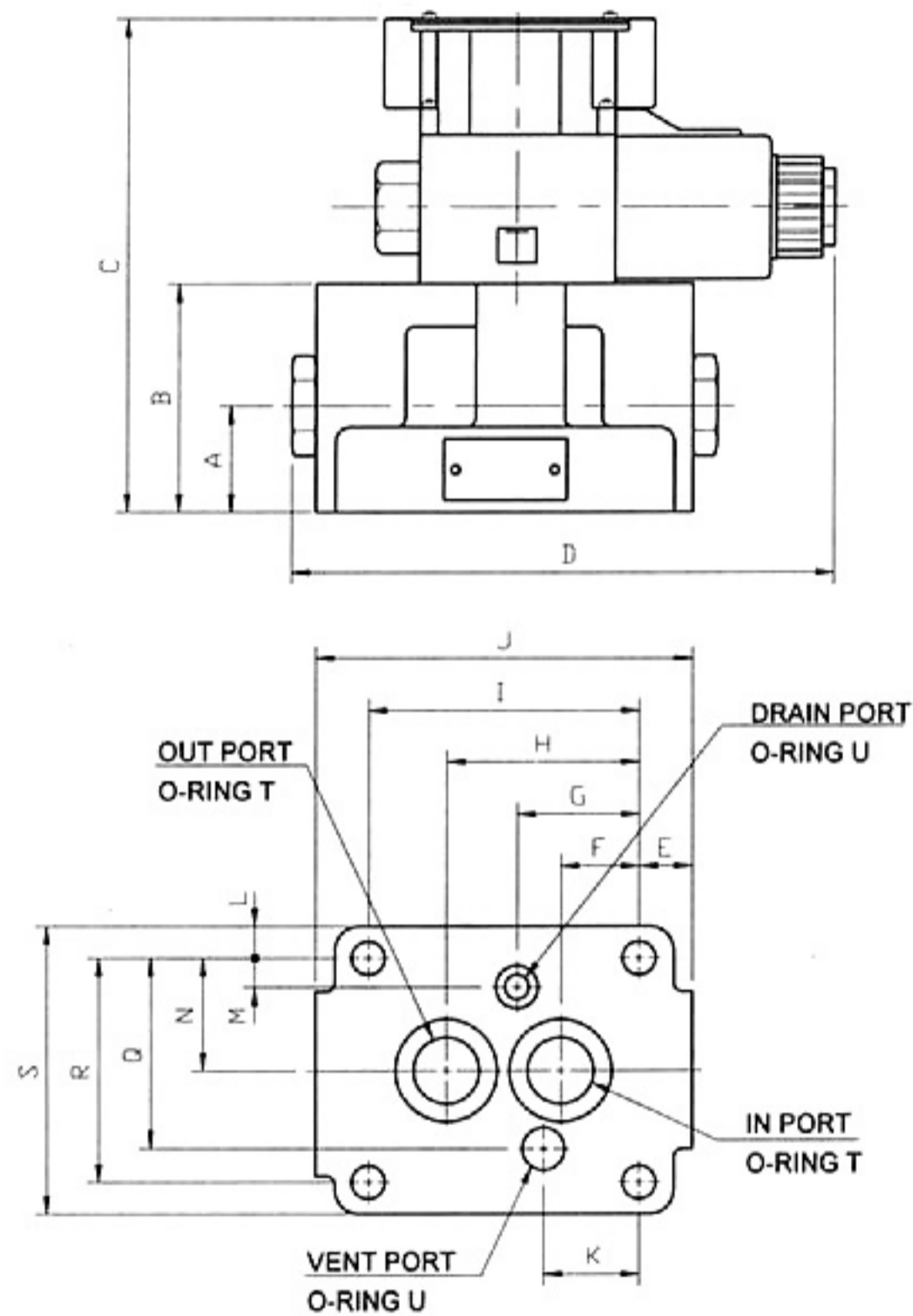
FLOW CONTROLS

SOLENOID OPERATED FLOW CONTROL VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SD-G06/G10



MODEL	A	B	C	D	E	F	G
SD-G06	35(1.38)	75(2.95)	162.5(6.4)	180(7.09)	17.5(0.69)	26(1.02)	40.5(1.59)
SD-G10	40(1.57)	86(3.39)	173.5(6.8)	197(7.76)	19(0.75)	34(1.34)	47(1.85)

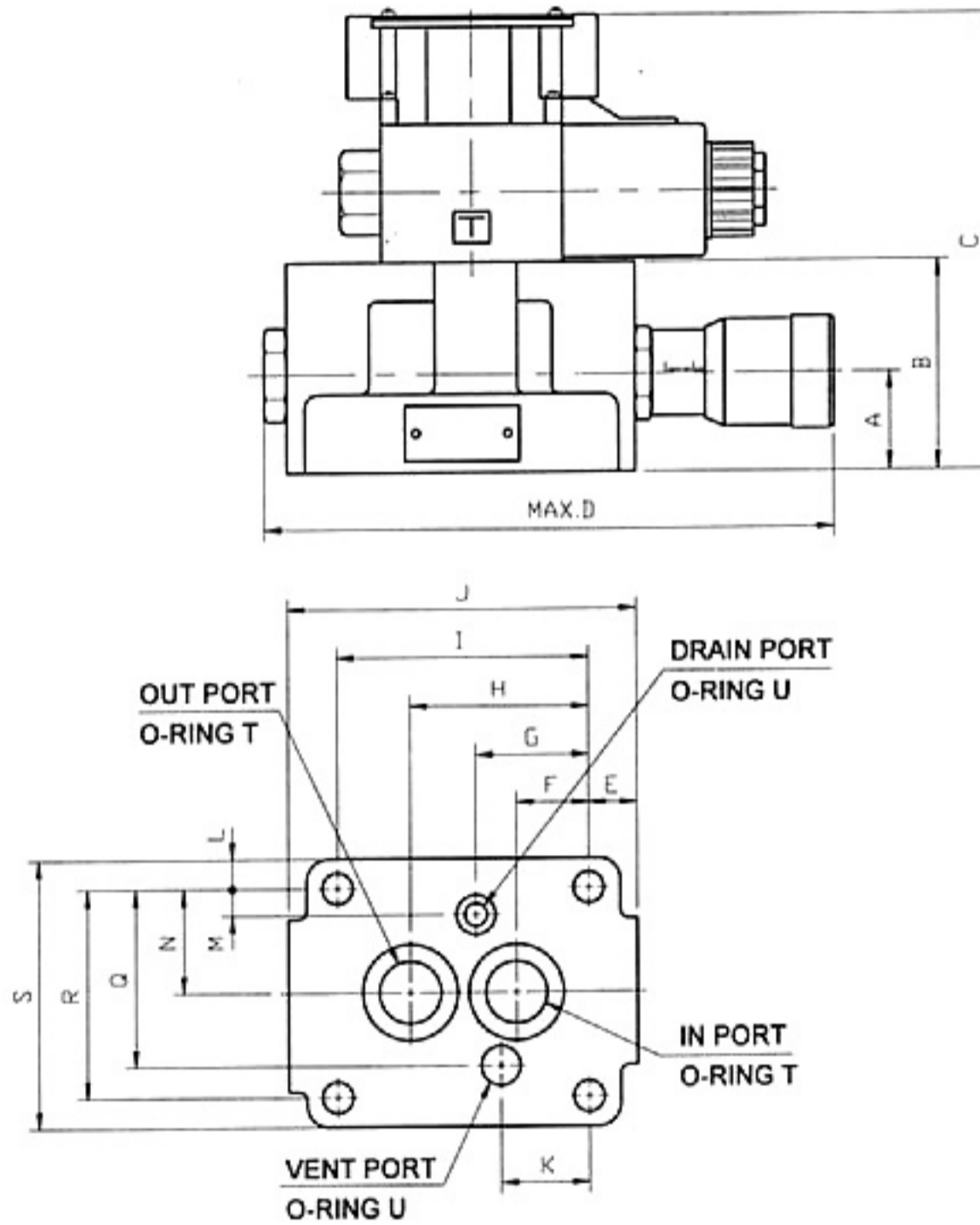
MODEL	H	I	J	K	L	M	N
SD-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)
SD-G10	78(3.07)	112(4.41)	150(5.91)	37.9(1.49)	14.5(0.57)	16(0.63)	43(1.69)

MODEL	Q	R	S	T	U
SD-G06	63(2.48)	74(2.91)	95(3.74)	P29	P12
SD-G10	76(2.99)	86(3.39)	115(4.53)	P34	P12

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SDF-G06/G10



MODEL	A	B	C	D	E	F	G
SDF-G06	35(1.38)	75(2.95)	162.5(6.4)	209(8.23)	17.5(0.69)	26(1.02)	40.5(1.59)
SDF-G10	40(1.57)	86(3.39)	173.5(6.8)	248(9.76)	19(0.75)	34(1.34)	47(1.85)

MODEL	H	I	J	K	L	M	N
SDF-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)
SDF-G10	78(3.07)	112(4.41)	150(5.91)	37.9(1.49)	14.5(0.57)	16(0.63)	43(1.69)

MODEL	Q	R	S	T	U
SDF-G06	63(2.48)	74(2.91)	95(3.74)	P29	P12
SDF-G10	76(2.99)	86(3.39)	115(4.53)	P34	P12

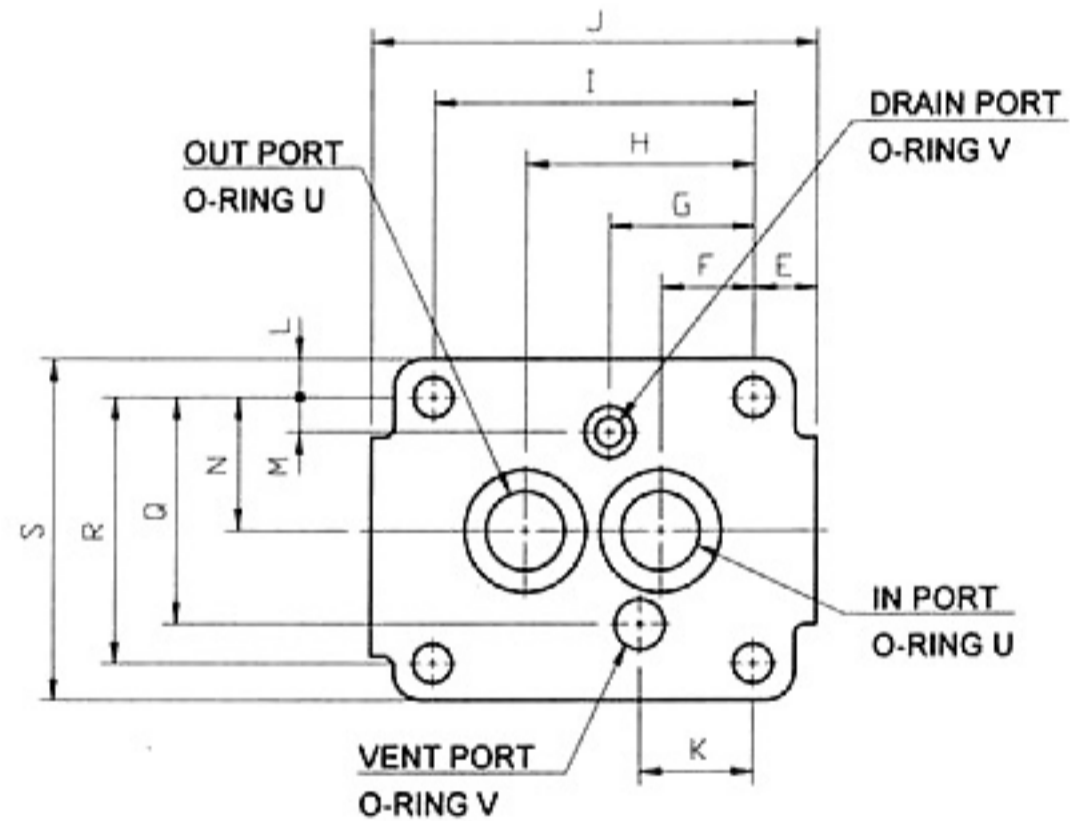
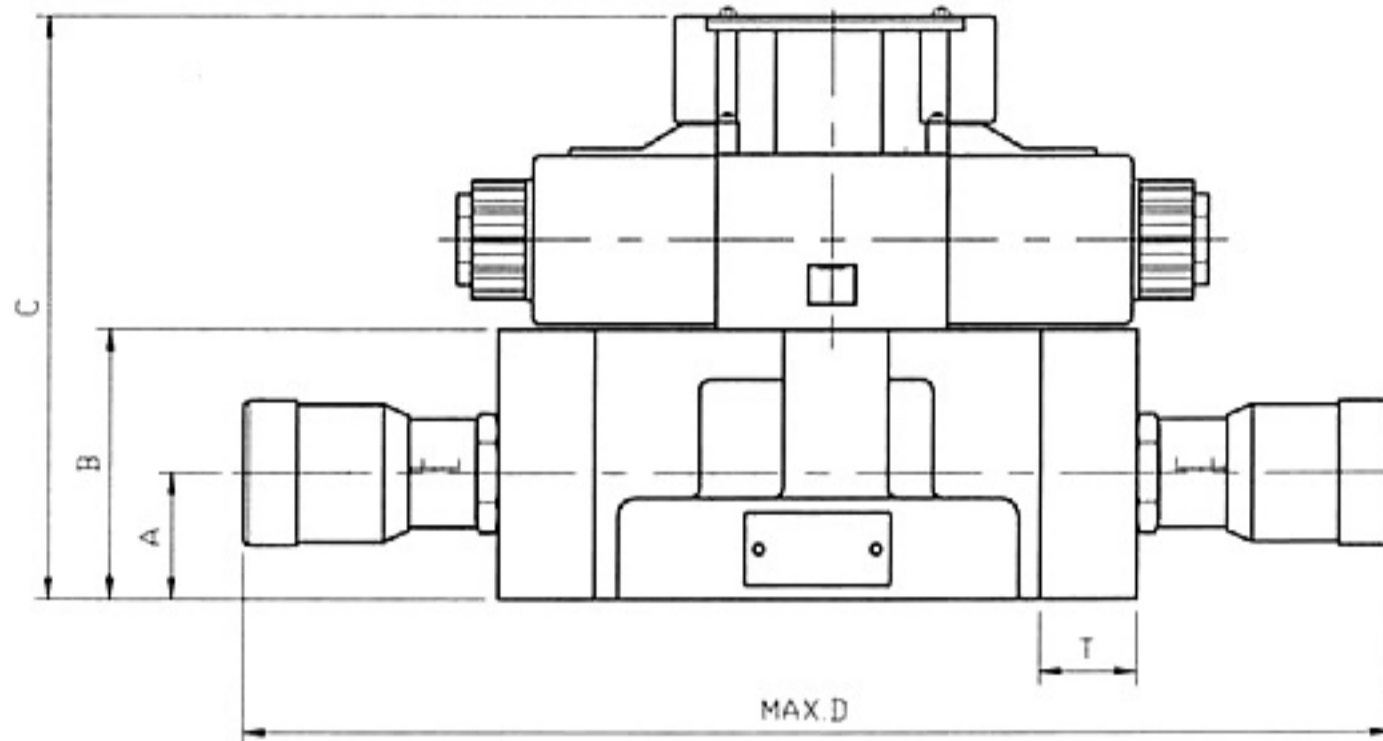
FLOW CONTROLS

SOLENOID OPERATED FLOW CONTROL VALVE

INSTALLATION DIMENSIONS

UNIT : mm(inch)

SKF-G06



MODEL	A	B	C	D	E	F	G
SKF-G06	35(1.38)	75(2.95)	162.5(6.4)	277(10.9)	17.5(0.69)	26(1.02)	40.5(1.59)

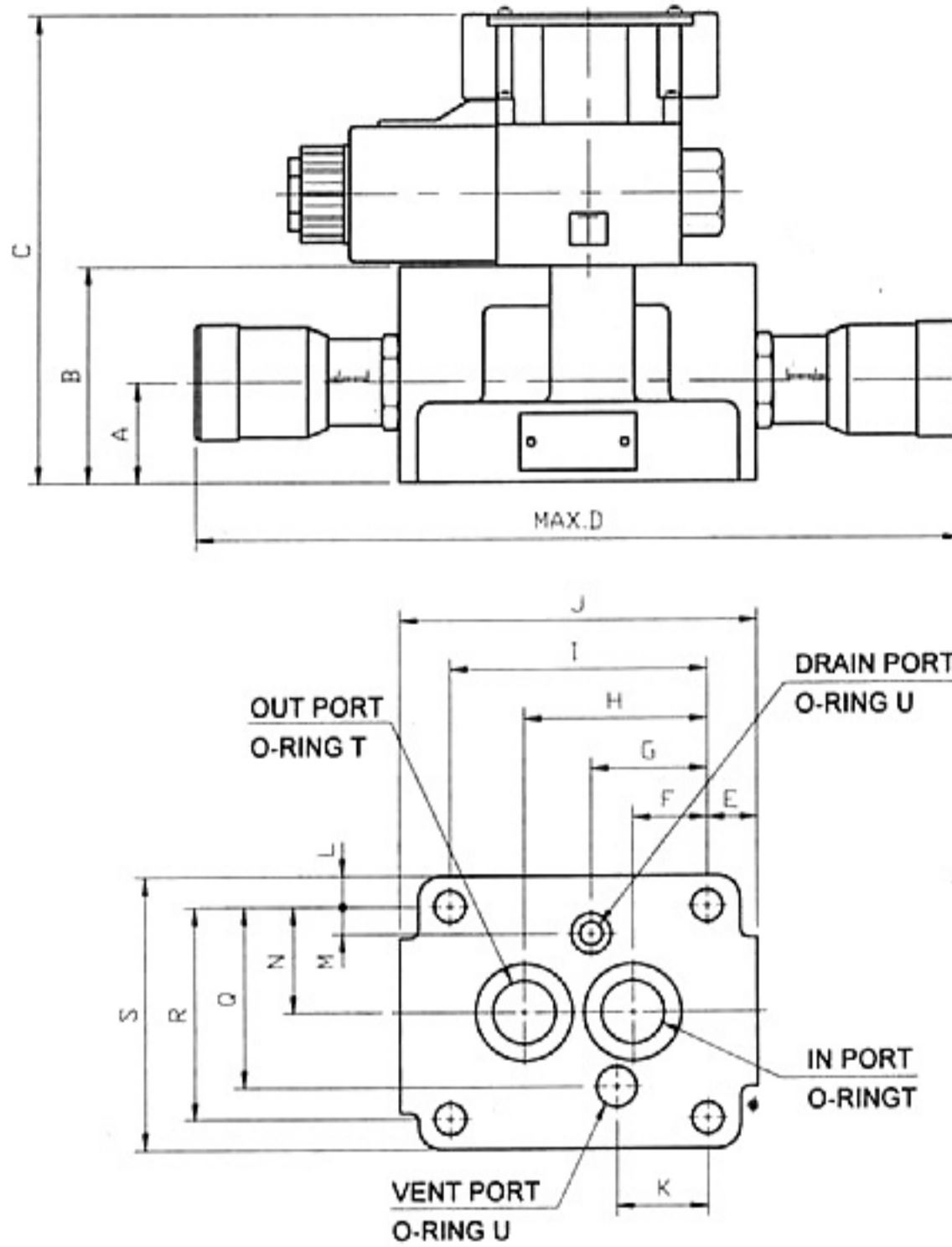
MODEL	H	I	J	K	L	M	N
SKF-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)

MODEL	Q	R	S	T	U	V
SKF-G06	63(2.48)	74(2.91)	95(3.74)	27(1.06)	P29	P12

INSTALLATION DIMENSIONS

UNIT : mm(inch)

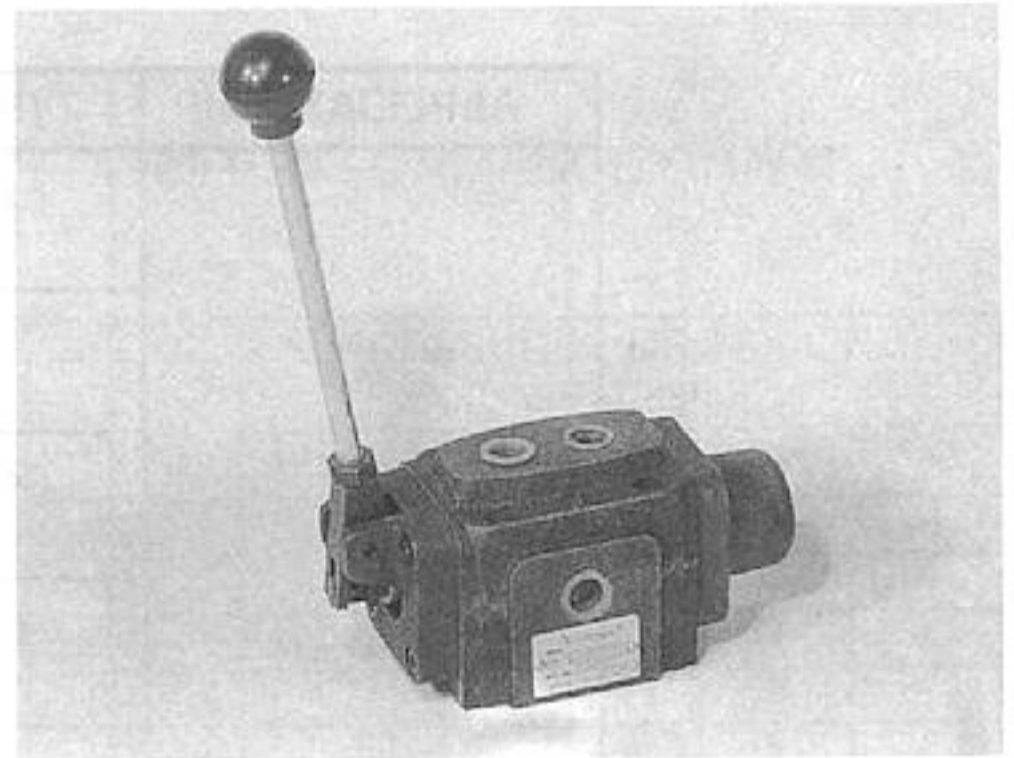
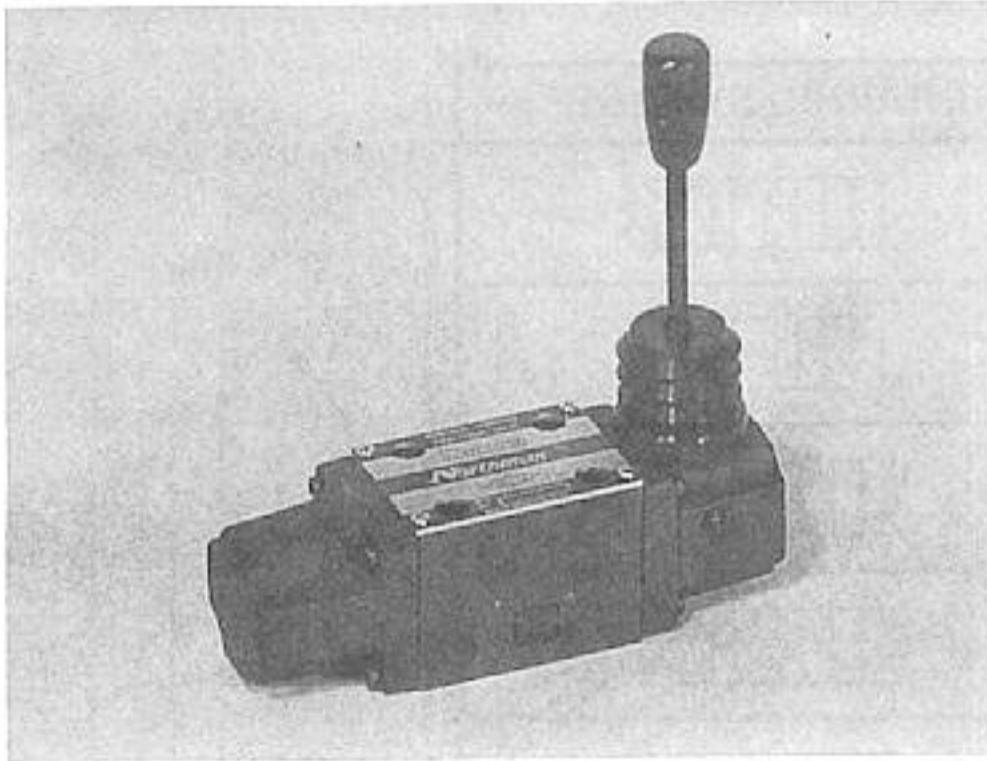
SFD-G06/G10



MODEL	A	B	C	D	E	F	G
SFD-G06	35(1.38)	75(2.95)	162.5(6.4)	277(10.9)	17.5(0.69)	26(1.02)	40.5(1.59)
SFD-G10	40(1.57)	86(3.39)	173.5(6.8)	328(12.9)	19(0.75)	34(1.34)	47(1.85)

MODEL	H	I	J	K	L	M	N
SFD-G06	64(2.52)	90(3.54)	125(4.92)	31.7(1.25)	10.5(0.41)	9.5(0.37)	37(1.46)
SFD-G10	78(3.07)	112(4.41)	150(5.91)	37.9(1.49)	14.5(0.57)	16(0.63)	43(1.69)

MODEL	Q	R	S	T	U
SFD-G06	63(2.48)	74(2.91)	95(3.74)	P29	P12
SFD-G10	76(2.99)	86(3.39)	115(4.53)	P34	P12



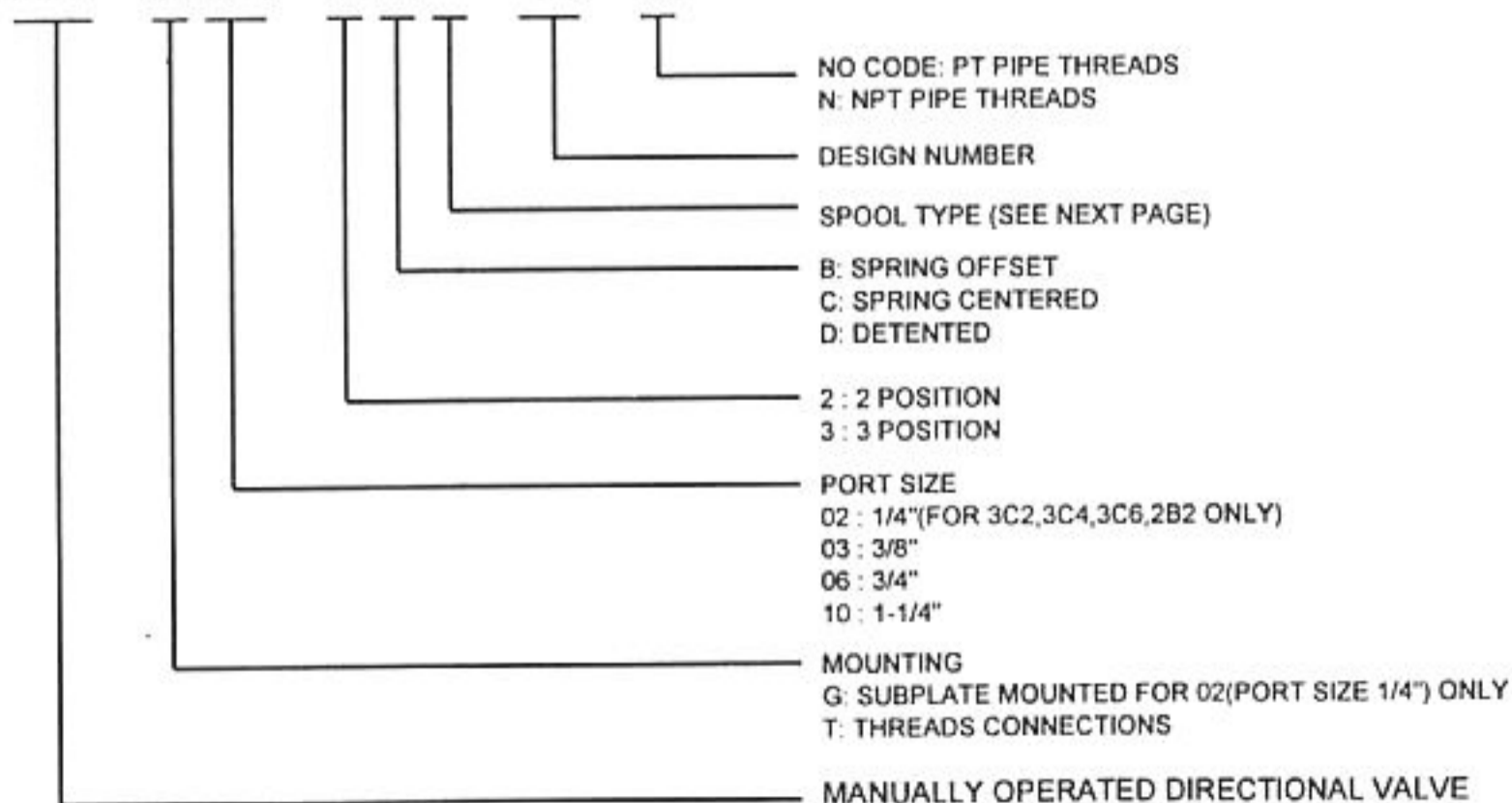
SPECIFICATIONS

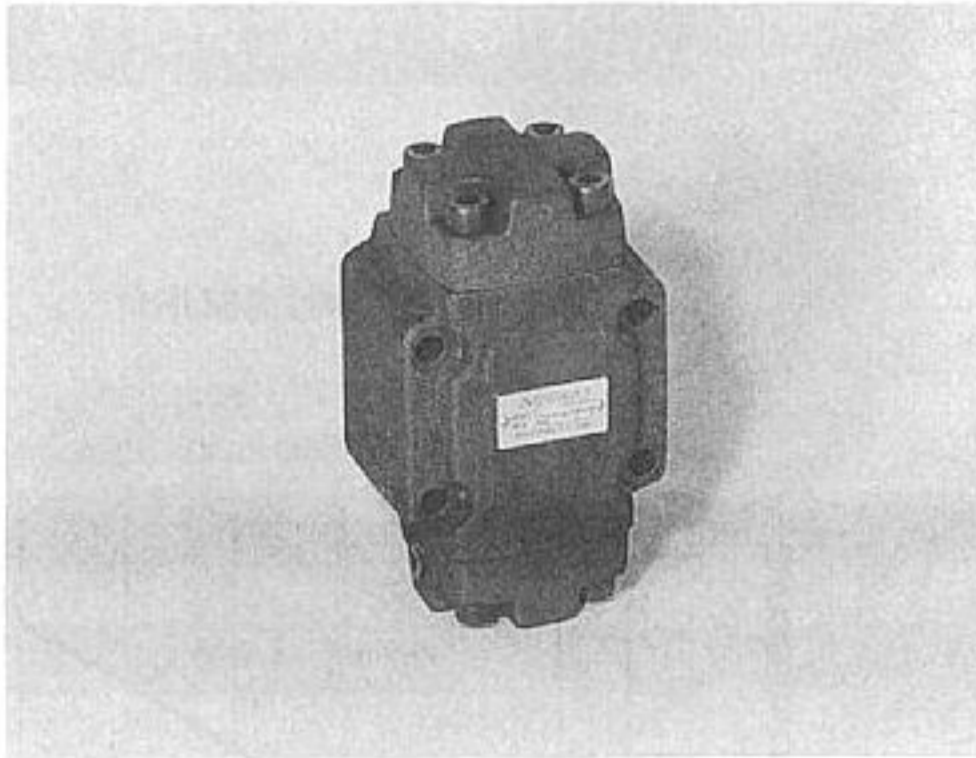
MODEL CODE	MAX. FLOW LPM (GPM)	MAX. PRESSURE KGF/CM 2(P.SI)
HD-G02-***-10	63(16.6)	210 (3000)
HD-T03-**C*-10	100 (25)	210 (3000)
HD-T03-2D*-10	100 (25)	210 (3000)
HD-T03-2B*-10	100 (25)	210 (3000)
HD-T06-**C*-10	300 (80)/ 200* (52*)	210 (3000)
HD-T06-2D*-10	300 (80)	210 (3000)
HD-T06-2B*-10	200 (52)	210 (3000)
HD-T10-**C*-10	500 (132) / 315* (83*)	210 (3000)
HD-T10-2D*-10	500 (132)	210 (3000)
HD-T10-2B*-10	315 (83)	210 (3000)

*** IS THE RATING FOR 3C3, 3C5, 3C6**

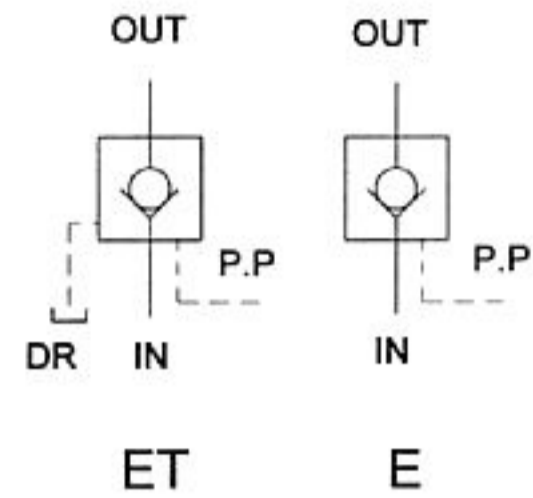
HOW TO ORDER

HD - G02 - 2 B * - 10 - N





SYMBOLS



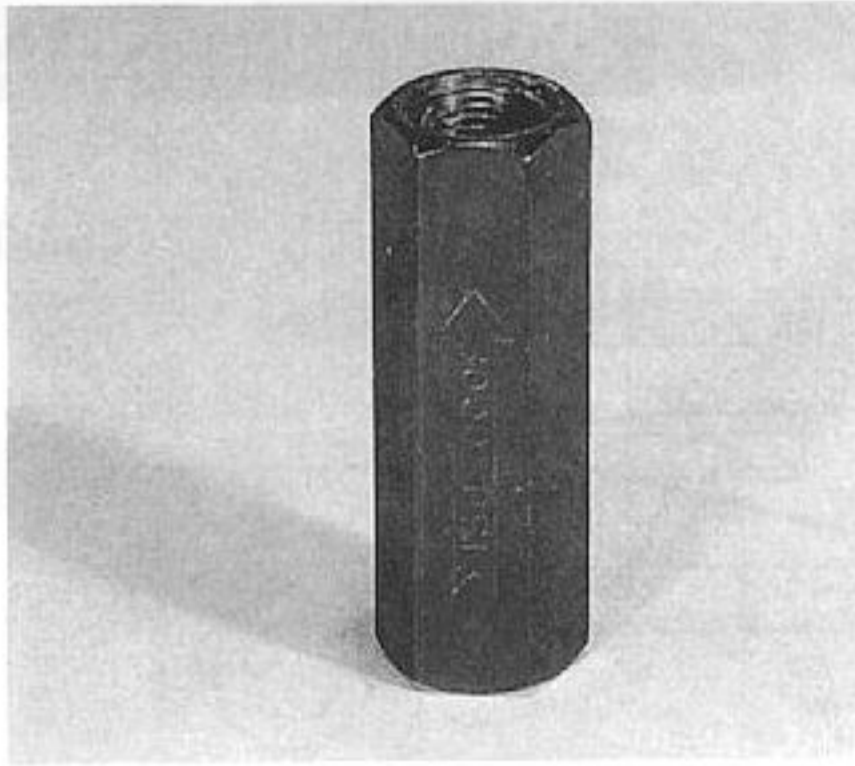
SPECIFICATION

MODEL	RATE FLOW LPM(GPM)	MAX. PRESSURE KGF/CM (PSI)	CRACKING PRESSURE KGF/CM2 (PSI)
PCV/PCDV-*03	40(10.6)	250(3550)	05: 0.35(5)
PCV/PCDV-*06	125(33)		50: 3.5(50)
PCV/PCDV-*10	250(66)		

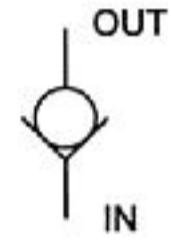
HOW TO ORDER

PCV - G 03 - 05 - E - 20 - N

- NO CODE: PT PIPE THREADS
N: NPT PIPE THREADS
- DESIGN NUMBER
- E: EXTERNAL PILOT & INTERNAL DRAIN
ET: EXTERNAL PILOT & DRAIN
- CRACKING PRESSURE
05: 0.35 KGF/CM (5PSI)
50: 3.5 KGF/CM (50PSI)
- PORT SIZE
03: 3/8"
06: 3/4"
10: 1 1/4"
- G: SUBPLATE MOUNTING
T: THREADED CONNECTIONS
- PCV: PILOT CONTROLLED CHECK VALVE
PCDV: DECOMPRESSION TYPE PILOT CONTROLLED CHECK VALVE



SYMBOL

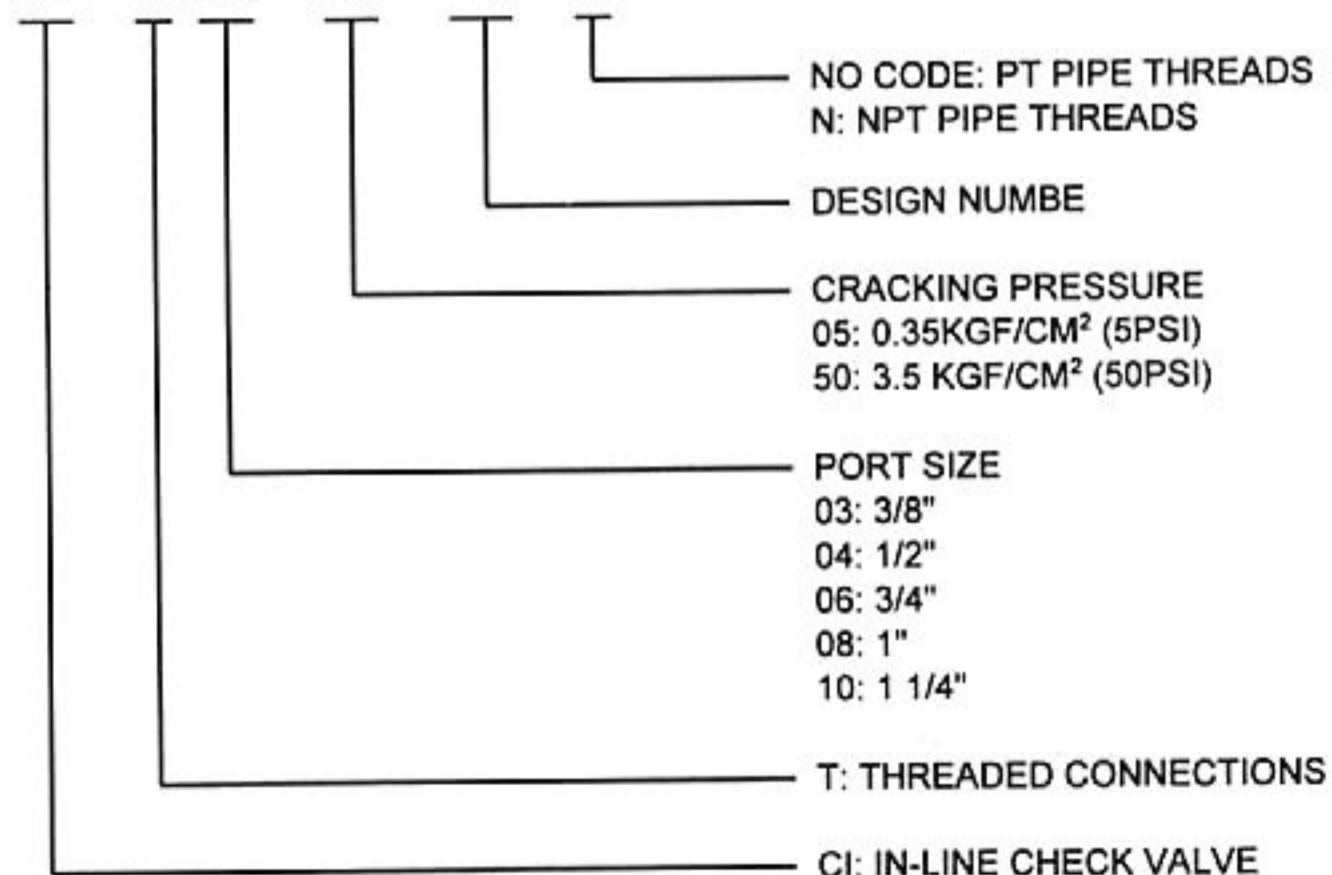


SPECIFICATIONS

MODEL	RATE FLOW LPM(GPM)	MAX. OPERATED PRESSURE KGF/CM ² (PSI)	CRACKING PRESSURE KGF/CM ² (PSI)
CI-T03	30(7.9)	210(3000)	05: 0.35(5) 50: 3.5(50)
CI-T04	65(17.1)		
CI-T06	115(30.4)		
CI-T08	165(43.6)		
CI-T10	210(55.5)		

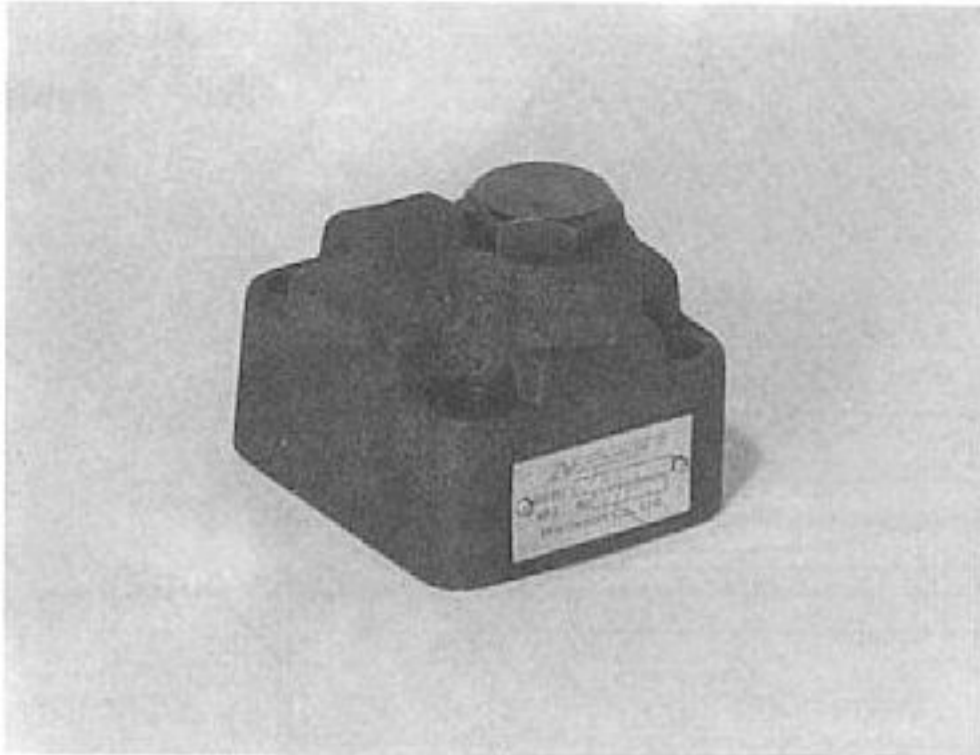
HOW TO ORDER

CI - T 03 - 05 - 10 - N

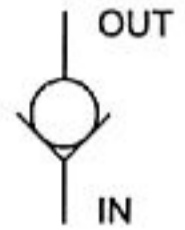


DIRECTIONAL CONTROLS

RIGHT ANGLE CHECK VALVE



SYMBOL



SPECIFICATIONS

MODEL	RATE FLOW LPM(GPM)	MAX. OPERATED PRESSURE KGF/CM ² (PSI)	CRACKING PRESSURE KGF/CM ² (PSI)
CV-G03	40(10.5)	250(3550)	05: 0.35(5)
CV-G06	125(33.0)		50: 3.5(50)
CV-G10	250(66.0)		

HOW TO ORDER

CV - G 03 - 05 - 10 - N

