Oilgear

HYDRAULIC CONTROL VALVE

RELIEF VALVE RF

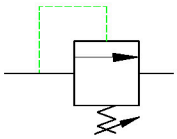
PRESSURE CONTROLS
Pilot Operated Relief Valve

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

- NO CODE: PT PIPE THREADS
  N: NPT PIPE THREADS(BOLT INCH THREADS)
- DESIGN NUMBER
- PRESSURE ADJUSTING RANGE
  1: 7-70 KGF/CM^2 (100-1000PSI)
  2: 35-140 KGF/CM^2(500-2000PSI)
  3: 70-250 KGF/CM^2(1000-3550PSI)
- PORT SIZE
  04: 1/2"
  06: 3/4"
  10: 11/4"
- MOUNTING
  G: SUBPLATE MOUNTED
  T: THREADED CONNECTIONS
- PILOT OPERATED RELIEF VALVE

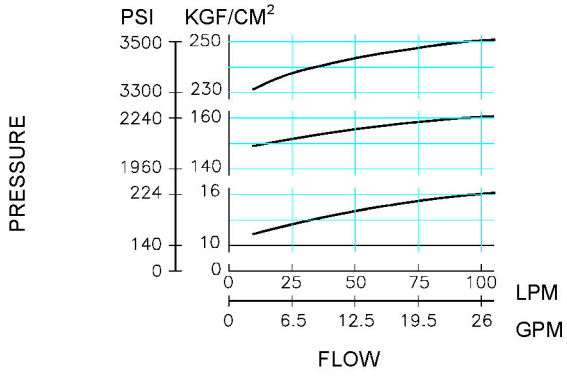
PERFORMANCE CURVE

TEST FLUID VISCOSITY : 35 cSt (175 SSU)

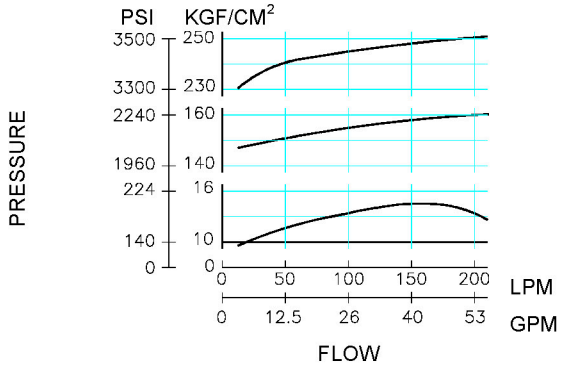
TEST TEMPERATURE : 50^0 C (122^0 F)

NOMINAL OVERRIDE

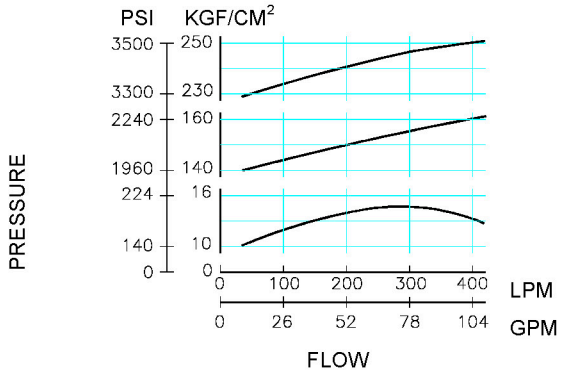
RF-G04, RF-T04



RF-G06, RF-T06

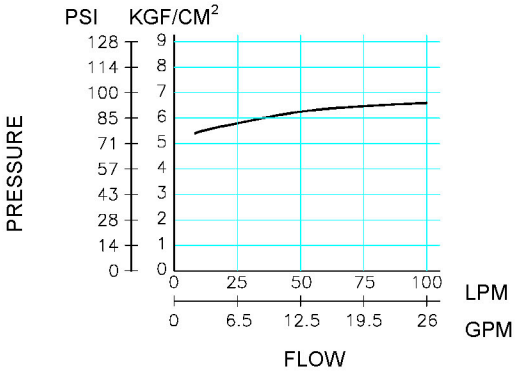


RF-G10, RF-T10

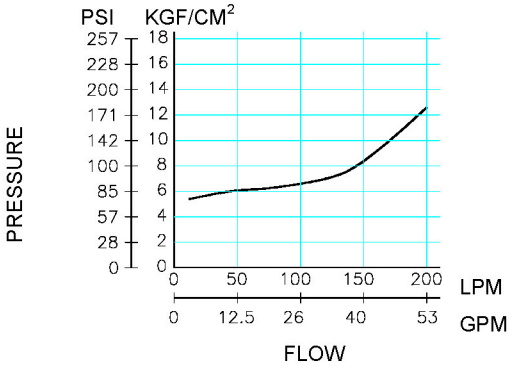


Min. Adj. PRESSURE

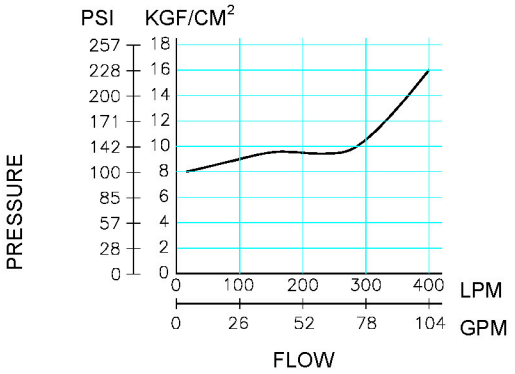
RF-G04, RF-T04



RF-G06, RF-T06



RF-G10, RF-T10

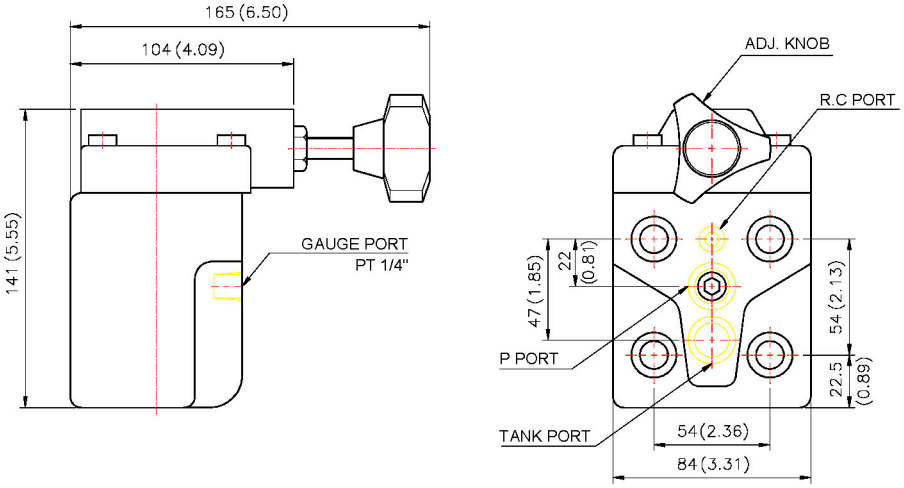


INSTALLATION DIMENSIONS

UNIT： mm(inch)

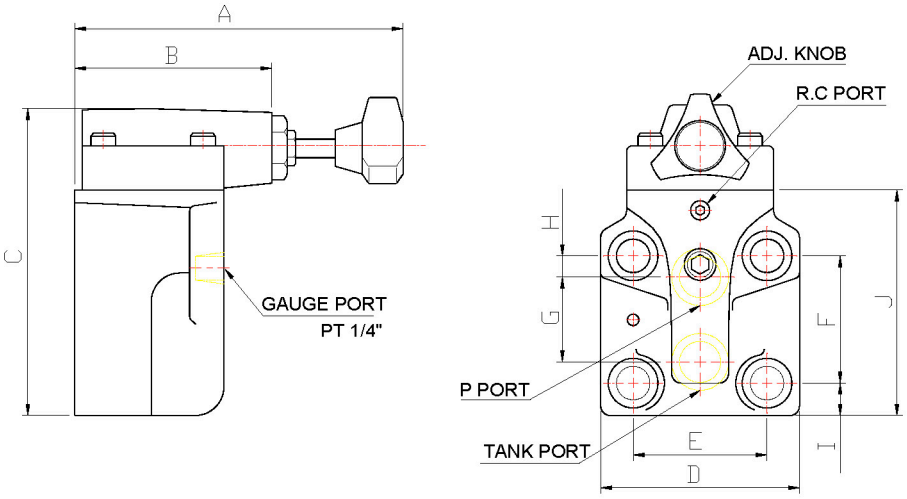
RF-G04

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

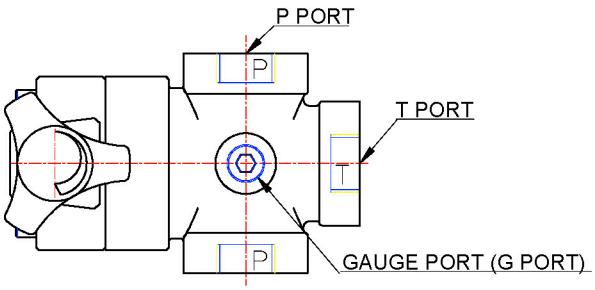


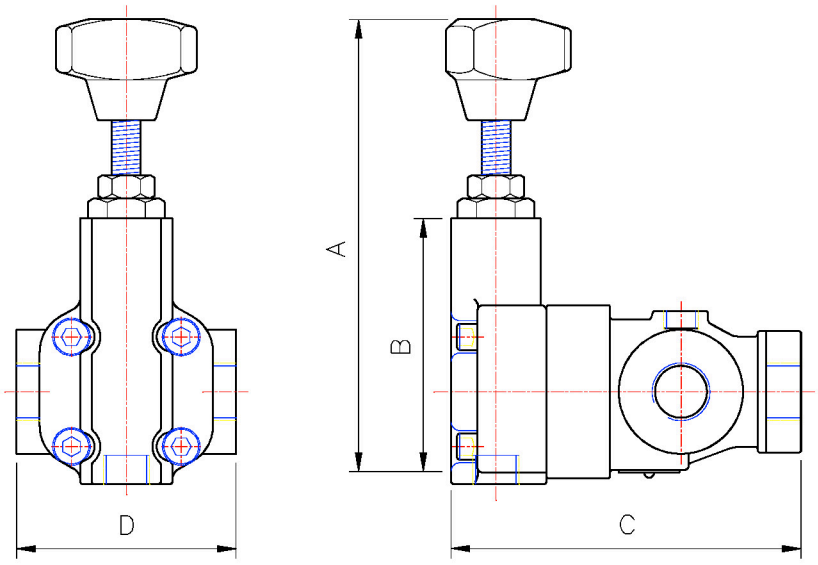
MODEL	A	B	C	D	E	F	G	H	I	J	WEIGHT	
											KGS	LBS
RF-G06	175 (6.89)	104 (4.09)	160 (6.30)	104 (4.09)	70 (2.76)	66.6 (2.62)	44.1 (1.74)	11.1 (1.74)	19.5 (.076)	122 (4.80)	6.7	14.7
RF-G10	184 (7.24)	120 (4.72)	195 (7.68)	125 (4.92)	82 (3.23)	88.9 (3.50)	63.6 (2.50)	12.7 (0.50)	18.5 (0.73)	150 (5.91)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

INSTALLATION DIMENSIONS

UNIT： mm(inch)

RF-T0*



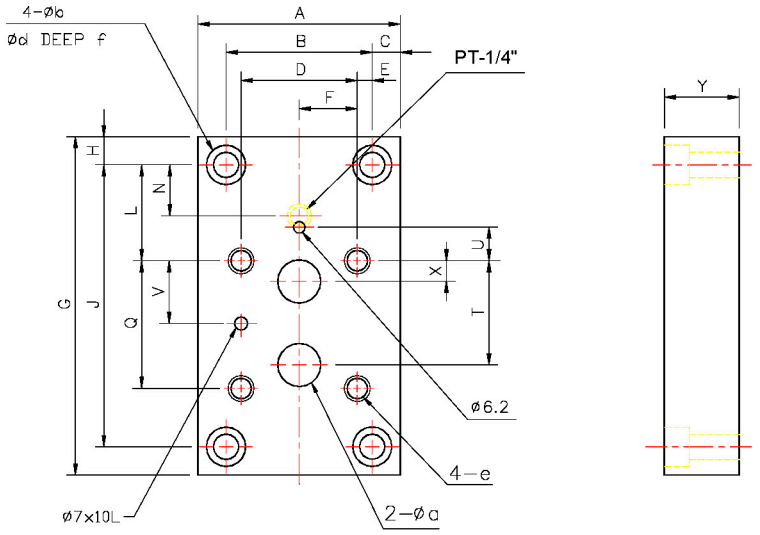


MODEL	A	B	C	D	P PORT	T PORT	G PORT	WEIGHT	
								KGS	LBS
RF-T04 SERIES	MAX. 142 (5.59)	92 (2.02)	111 (4.37)	84.5 (3.33)	PT 1/2"	PT 1/2"	PT 1/4"	3.4	7.5
RF-T06 SERIES	MAX. 148 (5.83)	102 (4.02)	140 (5.51)	103 (4.05)	PT 3/4"	PT 3/4"	PT 1/4"	5.3	11.7
RF-T10 SERIES	151 MAX. (5.94)	120 (4.72)	183 (7.20)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

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

- THREADS
  - NO CODE : PT PIPE THREADS
  - N : NPT PIPE THREADS
- SUBPLATE PORT SIZE
  - 04 : 1/2"
  - 06 : 3/4"
  - 08 : 1"
  - 10 : 1-1/4"
  - 12 : 1-1/2"
- VALVE PORT SIZE
  - 04 : 1/2"
  - 06 : 3/4"
  - 10 : 1-1/4"
- SUBPLATE FOR
  - RF-G04,RF-G06,RF-G10
  - HRF-G03,HRF-G06
  - SRF-G04,SRF-G06,SRF-G10
  - HSRF-G03,HSRF-G06