

BALANCED PISTON TYPE RELIEF VALVES

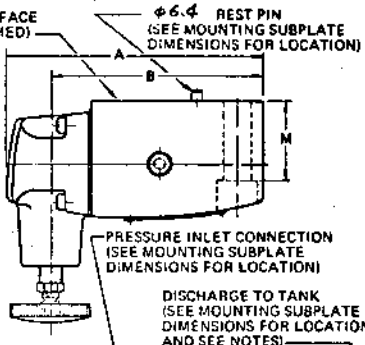
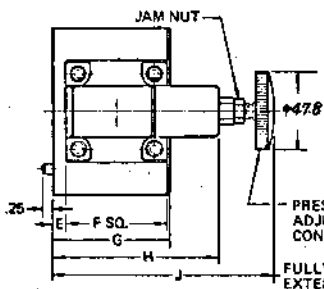
SERIES CG-06 AND CG-10
MANIFOLD OR SUBPLATE MOUNTING

MODEL NUMBER	PRESSURE RANGE (kgf/cm ²)	RATED CAPACITY (l/min)	PIPE SIZE
CG-06 B* 40	8.8 TO 70	176	3/4"
CG-06 C* 40	35 TO 140		
CG-06 F* 40	105 TO 210		
CG-10 B* 20	8.8 TO 70	380	1-1/4"
CG-10 C* 20	35 TO 140		
CG-10 F* 20	105 TO 210		

ASTERISK IN MODEL NUMBERS INDICATES OPTIONAL HIGH VENT FEATURE. SEE MODEL CODE ON REVERSE SIDE.

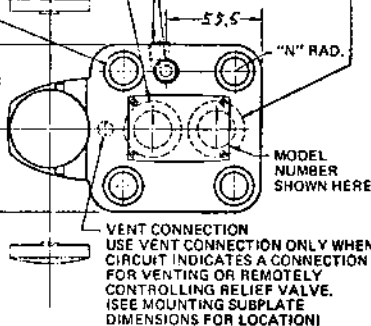
THREE OPTIONAL POSITIONS OF ADJUSTING KNOB WHICH CAN BE OBTAINED BY ROTATING COVER ASSEMBLY

"K" DIA. - THRU "N" C BORE - "M" DIM. AS SHOWN 4 HOLES FOR MOUNTING (SEE MOUNTING SUBPLATE DIMENSIONS FOR LOCATION)



DISCHARGE TO TANK (SEE MOUNTING SUBPLATE DIMENSIONS FOR LOCATION AND SEE NOTES)

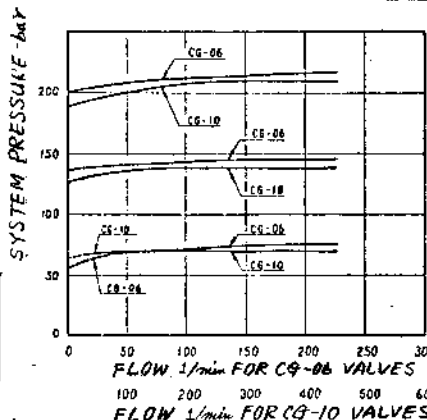
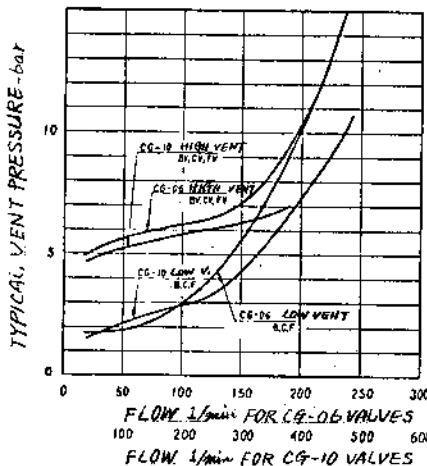
PILOT OR PRESSURE GAGE CONNECTION (IF REQ'D.) PT 1/8" THD.



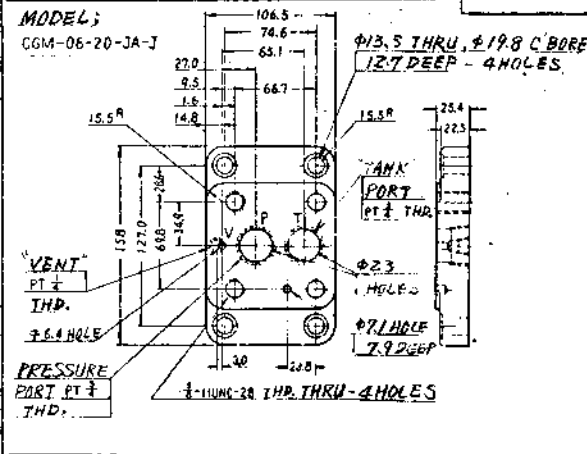
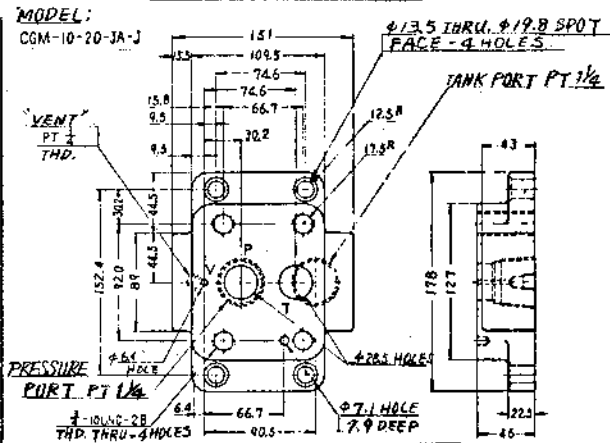
VENT CONNECTION USE VENT CONNECTION ONLY WHEN CIRCUIT INDICATES A CONNECTION FOR VENTING OR REMOTELY CONTROLLING RELIEF VALVE. (SEE MOUNTING SUBPLATE DIMENSIONS FOR LOCATION)

MODEL SERIES	A	B	C	D	E	F	G	H	J	K	L	M	N	WEIGHT APPROX. (KG)
CG-06	152.0	126.9	51	102	B	62	71.5	101	134.1	16.7	24.6	47.8	15.5	9.5
CG-10	166.5	137.9	63.5	127	2.5	81	86	105.0	138.2	19.8	29.4	63.5	17.5	9.8

VENT PRESSURE VERSUS FLOW



MOUNTING SUBPLATES



DESCRIPTION
THESE VALVES LIMIT SYSTEM PRESSURE BY DIRECTING PUMP FLOW TO TANK WHEN SYSTEM PRESSURE REACHES THE SETTING OF THE VALVE AND THUS PREVENT OVERLOADING OF THE SYSTEM.

OPERATION
IN ADDITION TO CONVENTIONAL OVERLOAD RELIEF VALVE OPERATION, TWO OTHER OPERATIONAL FEATURES ARE PROVIDED.

1. SYSTEM PRESSURE MAY BE LIMITED TO THE RELATIVELY LOW VENTING PRESSURE BY DIRECTING FLOW FROM THE VENT CONNECTION TO TANK.
2. SYSTEM PRESSURE MAY BE REMOTELY CONTROLLED BY DIRECTING FLOW FROM THE VENT CONNECTION TO A REMOTE CONTROL PRESSURE RELIEF VALVE (CG-15 - 100 INSTALLATION DRAWING S10200), OR CGR-02-20 DRAWING S10100).

PRESSURE SETTING
THE PRESSURE SETTING OF THE RELIEF VALVE SELECTED SHOULD BE APPROXIMATELY 150 TO 200 PSI ABOVE THE ACTUAL SYSTEM WORKING PRESSURE. A HIGHER SETTING WILL WASTE POWER AND IMPOSE UNNECESSARY STRAINS ON THE PUMP AND OTHER SYSTEM COMPONENTS.

PRESSURE ADJUSTMENT
PRESSURE IS ADJUSTED BY LOOSENING THE JAM NUT AND TURNING THE ADJUSTING SCREW. CLOCKWISE ROTATION INCREASES PRESSURE, COUNTERCLOCKWISE ROTATION DECREASES PRESSURE.

FLUID AND TEMPERATURE
OIL VISCOSITY RANGING BETWEEN 150 AND 315 SSU AT 100 DEGREES F. AND MAXIMUM OPERATING TEMPERATURE OF 150 DEGREES F. IS RECOMMENDED FOR BEST RESULTS. THESE VALVES MAY BE USED WITH SYNTHETIC PHOSPHATE ESTER BASE WATER GYCOL, 3:10 WATER-IN-OIL EMULSION TYPES OF FIRE RESISTANT FLUIDS, ADD PREFIX F3 WHEN USING THE SYNTHETIC PHOSPHATE ESTER TYPE FLUIDS. (SEE FLUIDS DATA SHEET 1786 S (SECTION L) FOR HYDRAULIC OIL RECOMMENDATIONS.)

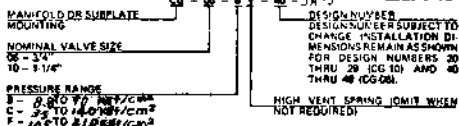
INSTALLATION
VALVE, SUBPLATE, AND MOUNTING BOLTS MUST BE ORDERED SEPARATELY.

EXAMPLE: VALVE SUBPLATE BOLT KIT
(1) CG-06-B-40-JA-J (1) CGM-06-20-JA-J (1) BKCG06-004
(1) CG-10-B-20-JA-J (1) CGM-10-20-JA-J (1) BKCG10-018

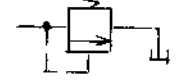
WHEN SUBPLATE IS NOT USED, A MACHINED PAD (AS INDICATED BY SUBPLATE SHADED AREA) MUST BE PROVIDED FOR MOUNTING. PAD MUST BE FLAT WITHIN .005 INCH AND SMOOTH WITHIN 63 MICROINCH. MOUNTING BOLTS, WHEN PROVIDED BY CUSTOMER, SHOULD BE SAE GRADE 7, OR BETTER.

SUBPLATES OTHER THAN THOSE SHOWN, AND PLATES FOR ADAPTING TO DESIGN VALVES TO 10 DESIGN MOUNTINGS, ARE SHOWN ON INSTALLATION DRAWING S22820. THE TANK CONNECTION SHOULD BE PIPED DIRECTLY TO TANK TO MINIMIZE BACK PRESSURE. ANY PRESSURE IN THE TANKLINE IS ADDITIVE TO THE PRESSURE SETTING. IF BACK PRESSURE EXCEEDS SYSTEM PRESSURE BY THE VALVE MALFUNCTION MAY OCCUR. CHECK REPRESENTATIVE FOR ALTERNATIVE.

TYPICAL MODEL CODE CG-06-B-Y-40-JA-J



GRAPHICAL SYMBOL



BALANCED PISTON TYPE
RELIEF VALVES
CG-06-XX-40-20-JA-J

TOKYO KEIKI CO., LTD.
DRAWN: S. Katoh CHARGED: N. K. Hattori
CHECKED: APPROVED:
SCALE: DATE: MAY-17-'77 SITE: DRAWING NO.: B VAJ 209759

REVISED 11-15-'79