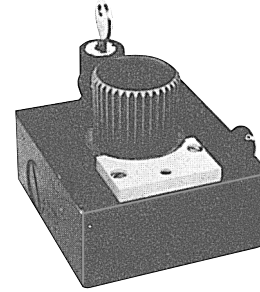


Technical Information



The FG3PKC pressure and temperature compensated flow control valve regulates flow and may be used for applications requiring meter-in, meter-out, and bleed-off.

MAXIMUM OPERATING PRESSURE

FG3PKC – 3000 PSI (205 Bar)

PRESSURE COMPENSATION

The FG3PKC valve is designed to maintain a constant flow with changing inlet and outlet pressures. The minimum pressure differential between the inlet and outlet ports must be 100 PSI (7 Bar) for the valve to function properly.

FLOW SETTING

The FG3PKC valve will maintain flow setting within approximately a $\pm 5\%$ variation over the pressure drop range of 100 to 3000 PSI (7 to 205 Bar).

The FC3PKC valve has an adjustable flow setting. See needle chart for controlled flow range.

TRIM ADJUSTMENT

This option allows the valve to be adjusted $\pm 5\%$ when the valve is locked in a flow setting.

REVERSE FLOW CHECK

The FG3PKC subplate mounted valve is standard with a reverse flow check valve. (See Reverse Flow Chart.) Check valve cracking pressure is 5 PSI (.3 Bar).

TEMPERATURE COMPENSATION

The FG3PKC valve is designed to give a constant flow rate over a wide change of fluid temperature. Refer to needle chart for percentage change in flow.

LUNGE CONTROL

The FG3PKC model is available with an optional lunge control for limiting compensator piston travel. This control prepositions the compensator piston to reduce actuator lunge or jump.

Quick Reference Data Chart

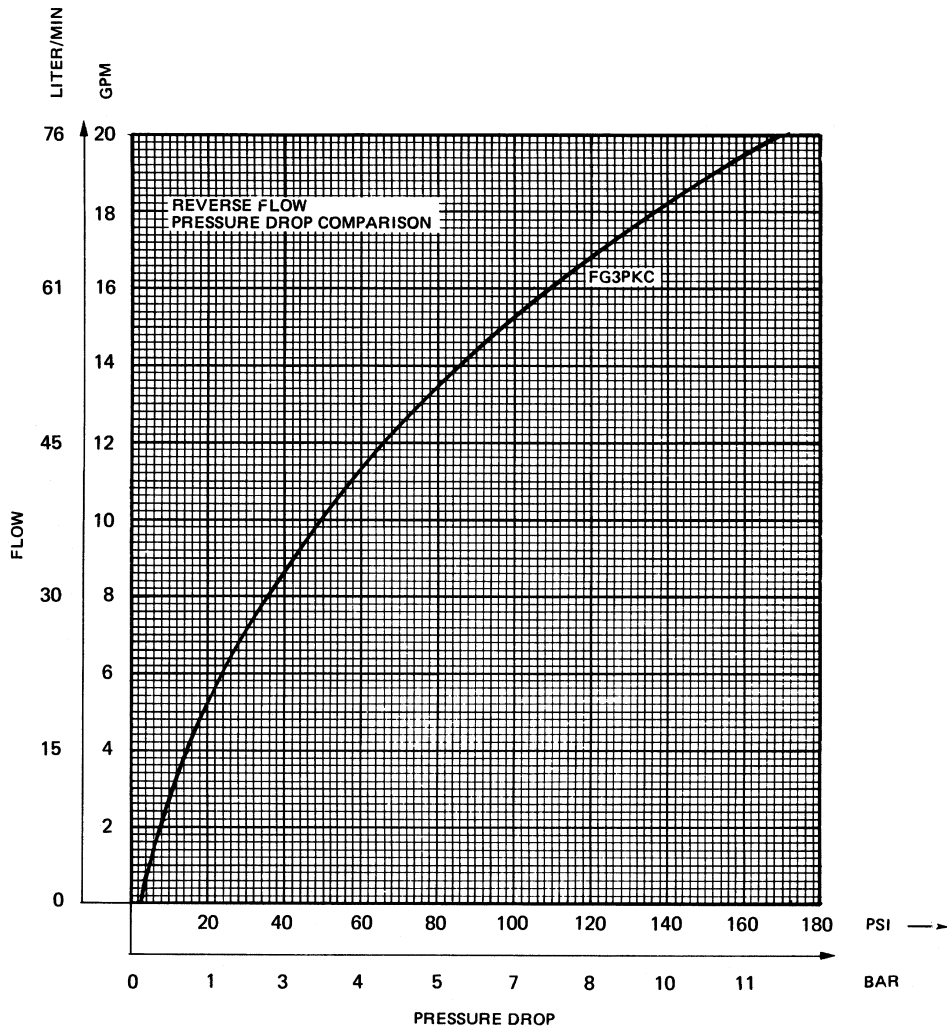
Valve Model	(Max.) Controlled Flow	(Max.) Reverse Flow	Pressure Drop ΔP @ (Max.) Reverse Flow	Mounting Style	Subplate Port Size	Port Location
FG3PKC	11 GPM (41.3 L/M)	12GPM (45L/M)	65 PSI (4.4 Bar)	Subplate (NFPA) 2F02	3/8 NPTF	Bottom

Needle Flow Chart "FG3PKC"

FLOW RANGES			TEMPERATURE COMPENSATION RANGE (For an 80-220 SSU viscosity change)	
Needle	Minimum Flow	Maximum Flow	Flow Range	% Flow Variation
B	5 CIPM (81.96 CC/M)	140 CIPM (.6 GPM)	5-50 CIPM (82-820 CC/M) 51-140 CIPM (836-2295 CC/M)	$\pm 7\%$ $\pm 5\%$
D	5 CIPM (81.96 CC/M)	925 CIPM (4 GPM)	.1-1.0 GPM (.4-4 L/M) 1.0-4 GPM (4-16 L/M)	$\pm 5\%$ $\pm 3\%$
G	5 CIPM (81.96 CC/M)	1848 CIPM (8 GPM)	.12-1.0 GPM (.5-4 L/M) 2.0-4.0 GPM (8-15 L/M) 4.0-8.0 GPM (15-30 L/M)	$\pm 5\%$ $\pm 3\%$ $\pm 3\%$

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Performance Data



PRESSURE DROP vs. FLOW
FG3PKC**SERIES**

Curves were generated using 100 SSU hydraulic oil. For any other viscosity, pressure drop will change as per chart.	VISCOSITY CORRECTION FACTOR							
	Viscosity (SSU)	75	150	200	250	300	350	400
	Percentage of ΔP (Approx.)	93	111	119	126	132	137	141

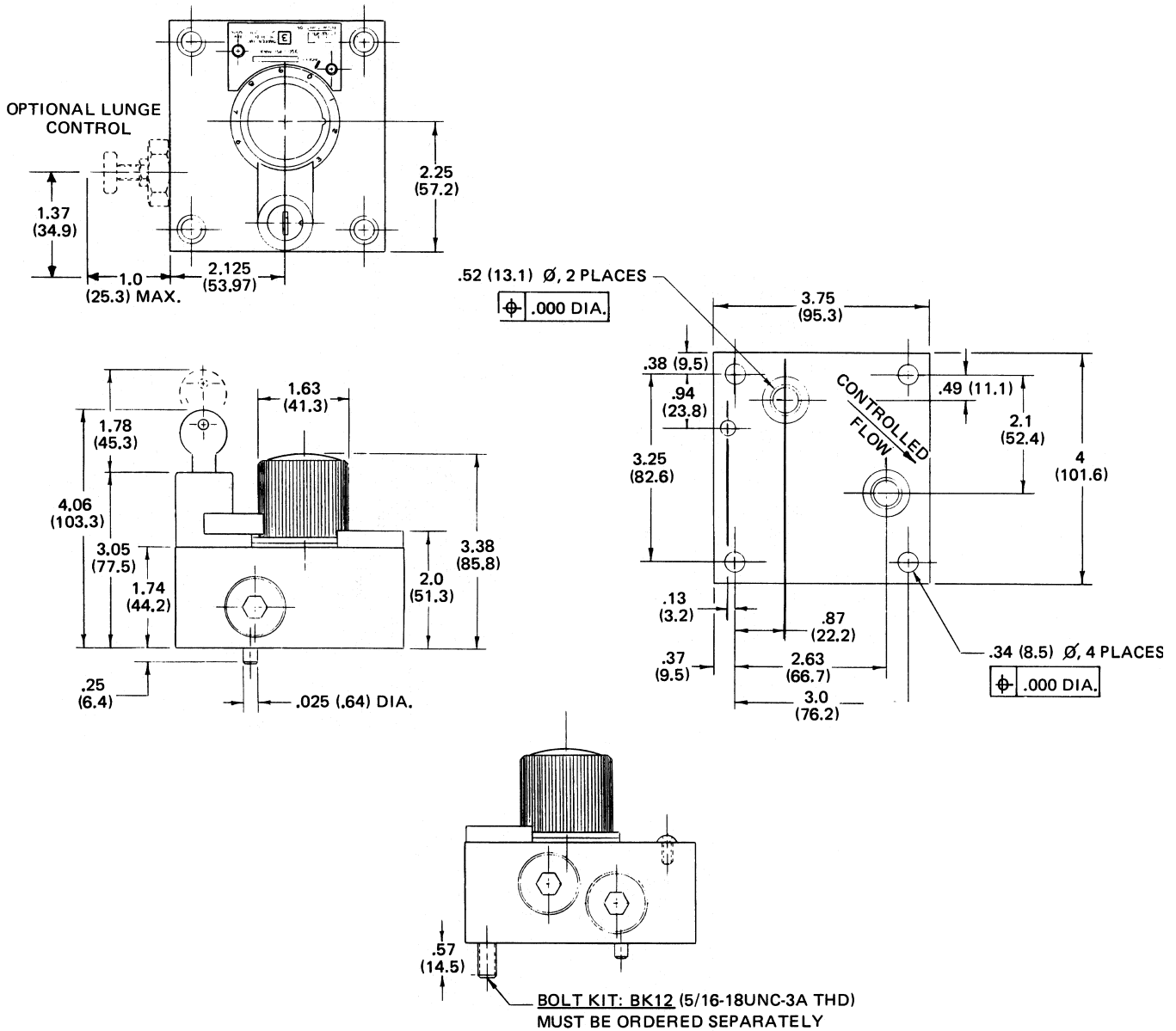


Dimensions

"MILLIMETER EQUIVALENTS FOR INCH DIMENSIONS ARE SHOWN IN (**)"

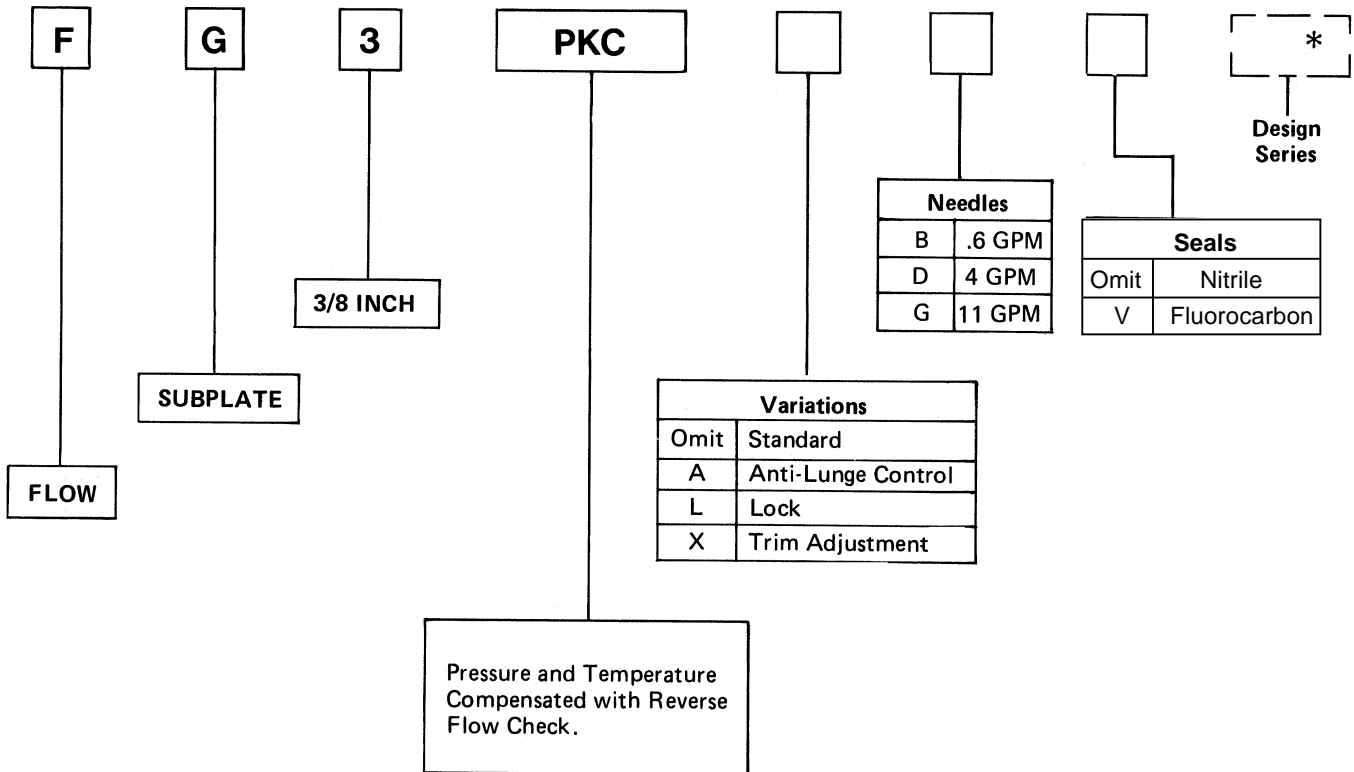
MODEL FG3PKC****10

MANIFOLD M'T'D.-TEMPERATURE INSENSITIVE-
PRESSURE COMPENSATED FLOW CONTROL



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Ordering Information



UNIT WEIGHT: 8.5 LBS. (4 Kg)

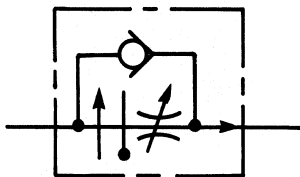
SUBPLATE

Valve	Subplate	Ports	Location
FG3PKC	058062-2	3/8" NPTF	Bottom

BOLT KIT

Valve	Bolt Kit	Bolt Specification*	Bolt Torque
FG3PKC	BK 12	5/16-18 x 2"	19 Ft.-Lbs.

*USE SAE GRADE #8 OR BETTER



TEMP./PRESS.
COMPENSATED FLOW
CONTROL VALVE

