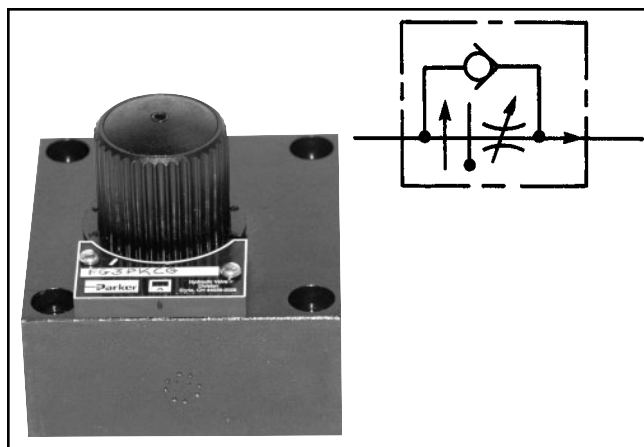


## General Description

Series FG3PKC pressure and temperature compensated flow control valves regulate flow and may be used for applications requiring meter-in, meter-out and bleed-off.

## Features

- Maintains constant flow with changing inlet and outlet pressures. The minimum pressure differential between inlet and outlet ports must be 100 PSI (7 Bar) to function properly.
- Maintains flow setting within approximately  $\pm 5\%$  variation over pressure drop range 100 to 3000 PSI (7 to 205 Bar).
- Has an adjustable flow setting. See needle chart for controlled flow range.
- Trim adjustment option allows valve to be adjusted  $\pm 5\%$  when valve is locked in a flow setting.
- Subplate mounted valve is standard with reverse flow check valve. (See Reverse Flow Chart.) Check valve cracking pressure is 5 PSI (0.3 Bar).
- Designed to give a constant flow rate over a wide change of fluid temperature. Refer to needle chart for percentage change in flow.
- Available with optional lunge control for limiting compensator piston travel. This control prepositions the compensator piston to reduce actuator lunge or jump.



## Specifications

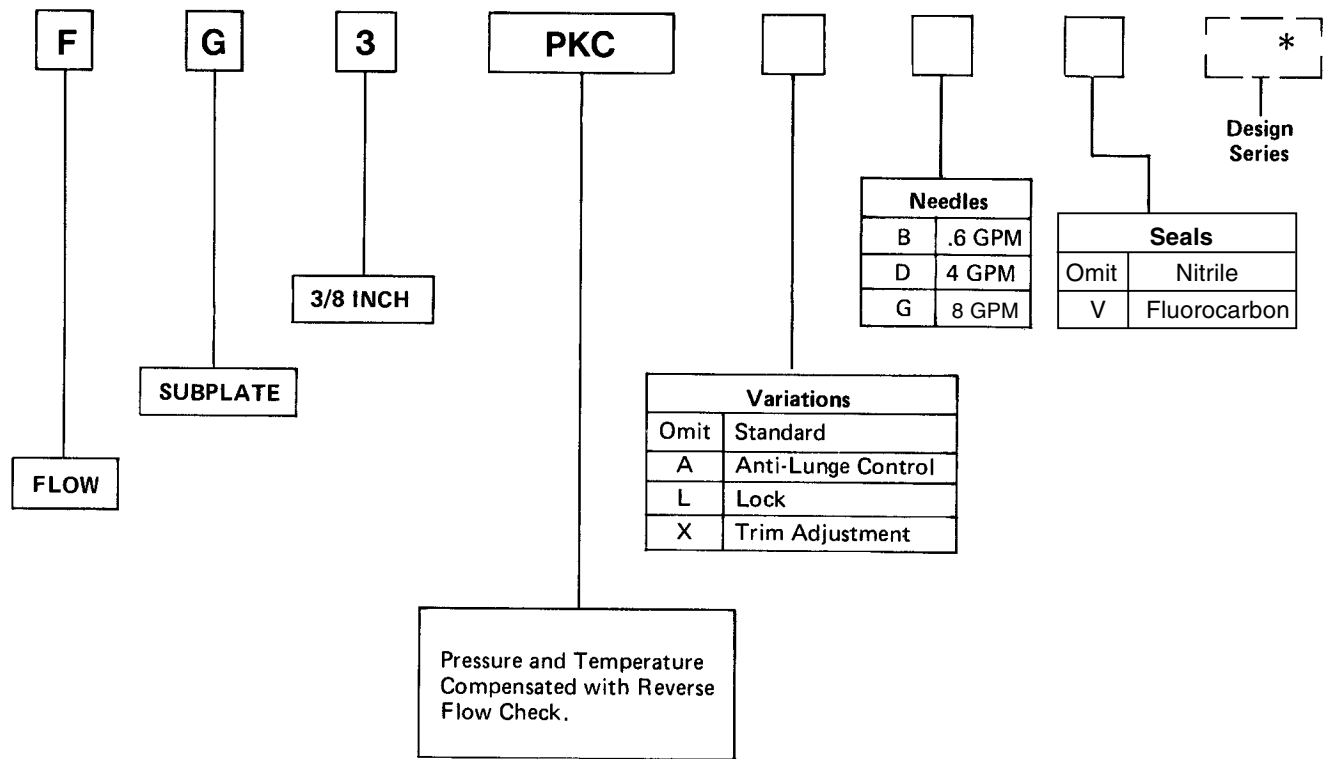
<b>Maximum Operating Pressure</b>	207 Bar (3000 PSI)
<b>Pressure Compensation</b>	7 Bar (100 PSI) Minimum
<b>Flow Setting</b>	$\pm 5\%$ 7 to 207 Bar (100 to 3000 PSI)

## Flow Data

Valve Model	(Max.) Controlled Flow	(Max.) Reverse Flow	Pressure Drop $\Delta P$ @ (Max.) Reverse Flow	Mounting Style	Subplate Port Size	Port Location
FG3PKC	8 GPM (30 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)	$\pm 5\%$ $\pm 3\%$ $\pm 3\%$



Weight: 4 Kg (8.5 lbs.)

SUBPLATE

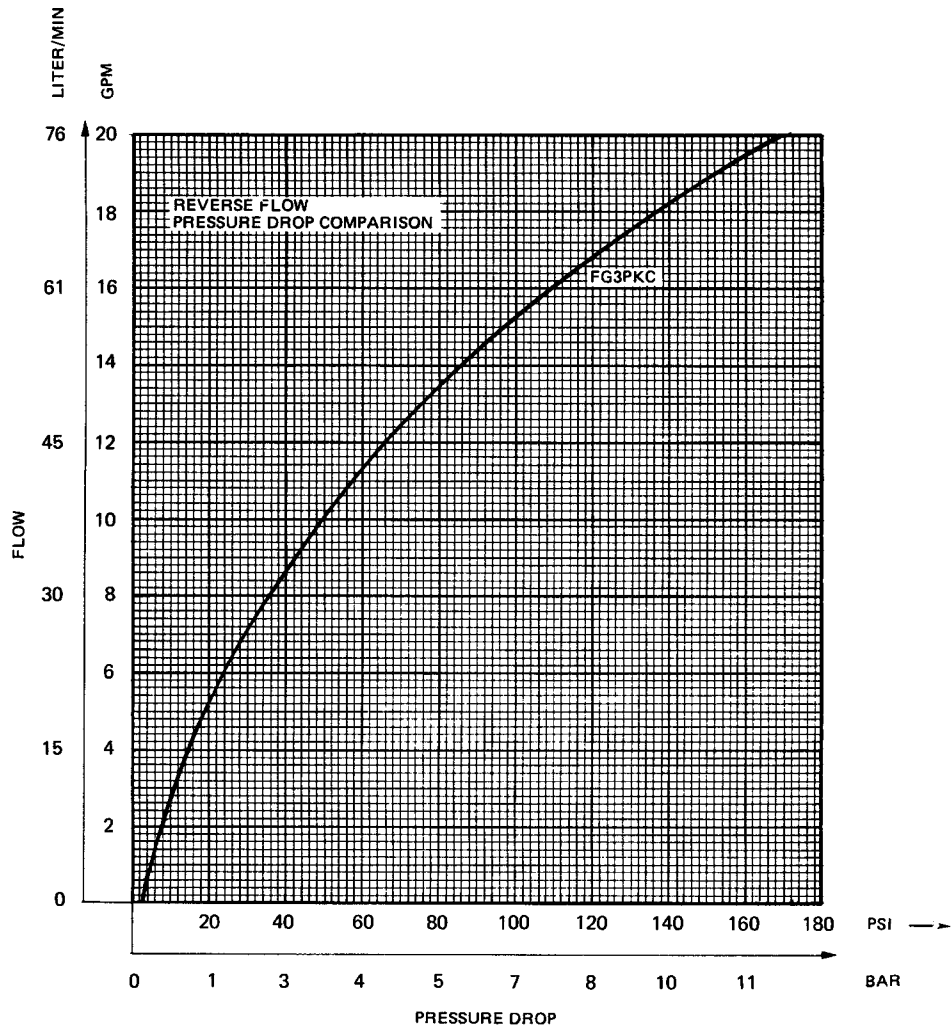
Valve	Subplate	Ports	Location
FG3PKC	058062-2	3/8" NPTF	Bottom

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





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 $\Delta P$ (Approx.)	93	111	119	126	132	137	141

Millimeter equivalents for inch dimensions are shown in (\*\*)

**Model FG3PKC\*\*\*\*10**

Manifold mounted, temperature insensitive, pressure compensated  
Flow Control Valve

