General Description

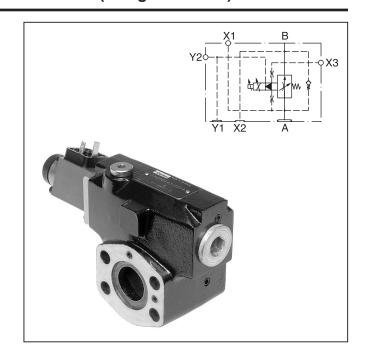
Series F5C proportional throttle valves adjust flow in proportion to the input signal. The combination of the F5C with pressure compensators R5A or R5P serves as a flow control valve, providing load compensated flow.

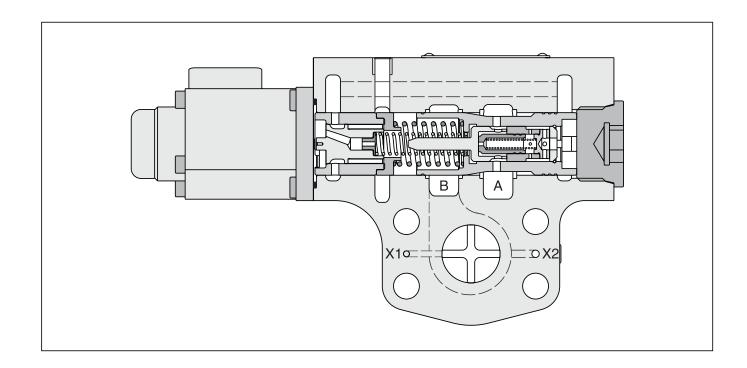
The F5C is offered with two types of response time:

Standard 350 ms at 1 LPM (0.3 GPM) pilot flow Code A 250 ms at 2 LPM (0.5 GPM) pilot flow

Features

- Spool type proportional throttle valve.
- SAE 61 flange.
- Maximum pressure 270 Bar (3915 PSI).
- Maximum flow 380 LPM (100.5 GPM).
- 3 sizes: SAE 3/4", 1", 1 1/4".
- Load compensated flow in combination with R5A and R5P.

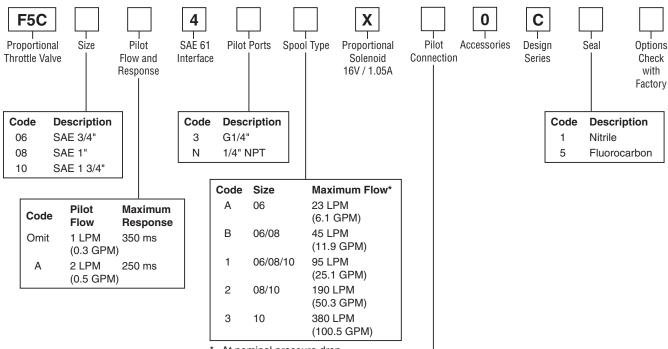




B96



Series F5C (Flange Mounted)

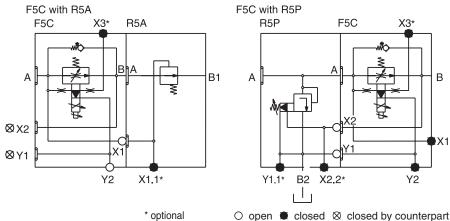


At nominal pressure drop $(\Delta p = 8.4 \text{ Bar } (121.8 \text{ PSI})$

Weight:

F5C06 3.9 kg (8.6 lbs.) F5C08 4.1 kg (9.0 lbs.) F5C10 5.8 kg (12.8 lbs.)

F5C for F5C for F5C without **Pilot** Code Compensators **Combined with** Combined with Connections R5A, R5P R5A R₅P Internal PD (Y) X1, X3, Y2 Internal PP (X) 2 X2, Y1 0 X2, Y1 0 External PD (Y) X1, X3, Y2 0 3 External PP (X) X2, Y1 External PD (Y) X3, Y2 0 X2, X3, Y1, Y2 0 4 External PP (X) X1 X1 \boxtimes X2, Y1 External PD (Y) X1, Y2 0 Internal PP (X) 5 ХЗ \boxtimes X2, Y1 External PD (Y) X1, X3 X1, X3 Internal PP (X) X2. Y1 \boxtimes 0 6 X2, Y1, Y2 Y2 0





X3*

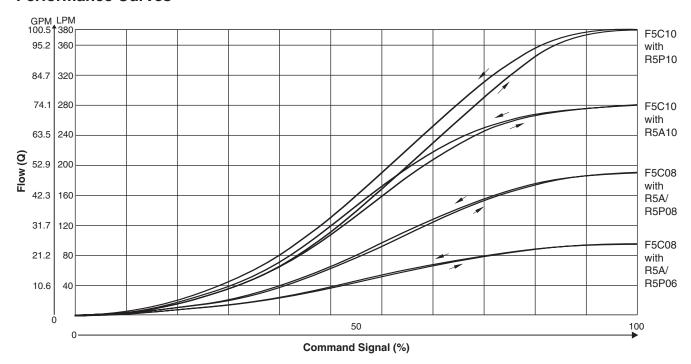
Y2

В

Specifications

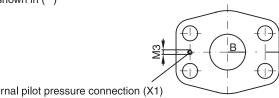
General								
Size	06	08	10					
Mounting	Flanged according to SAE 61							
Mounting Position	Unrestricted							
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)							
Hydraulic	Hydraulic							
Maximum Operating Pressure	Ports A, B, X1, X2, X3 270 Bar (3915 PSI) Ports Y1, Y2 70 Bar (1015 PSI)							
Maximum Pressure Drop (from A to B)	21 Bar (304.5 PSI)							
Flows	26 LPM (6.1 GPM) 45 LPM (11.9 GPM) 95 LPM (25.1 GPM)	45 LPM (11.9 GPM) 95 LPM (25.1 GPM) 190 LPM (50.3 GPM)	95 LPM (25.1 GPM) 190 LPM (50.3 GPM) 380 LPM (100.5 GPM)					
Fluid	Hydraulic oil as per DIN 5152451535, other on request							
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)							
Viscosity Permitted Recommended	10 to 380 cSt / mm²/s (46 to 1761 SSU) 30 to 80 cSt / mm²/s (139 to 371 SSU)							
Filtration	ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)							
Electrical								
Duty Ratio	100% ED; CAUTION: Coil temp	perature up to 150°C (302°F) poss	sible					
Solenoid Connection	Connector as per EN175301-803							
Protection Class	IP65 in accordance with EN60529 (plugged and mounted)							
Supply Voltage	16 VDC							
Power Consumption	1.05A							
Resistance	11.3 Ohm							
Response Time	See Ordering information							
Coil Insulation Class	H (180°C) (356°F)							

Performance Curves





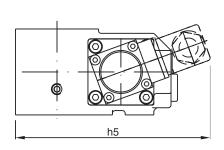


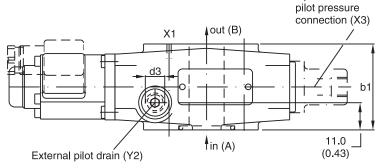


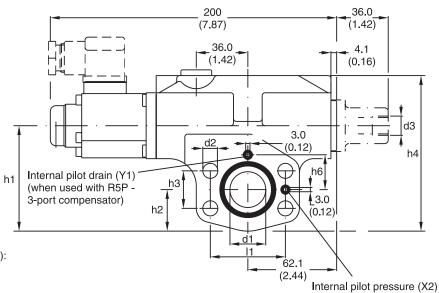


Optional external

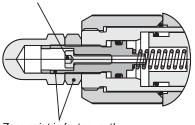
Internal pilot pressure connection (X1) (for use with R5A - 2-port compensator)







Important (only for solenoid type 1-220 mA): On initial start up and after long shut down periods bleed air from this plug.



Zero point is factory set! Lock nut must not be loosened!

Seal Kits					
Size	Nitrile	Fluorocarbon			
06 / 08 / 10	S16-91850-0	S16-91850-5			

(when used with R5P - 3-port compensator)

Size	I1	b1	h1	h2	h3	h4	h5	h6	d1	d2	d3
06	47.6 (1.87)	60.0 (2.36)	68.2 (2.69)	26.0 (1.02)	22.2 (0.87)	103.2 (4.06)	183.0 (7.20)	20.8 (0.82)	19.0 (0.75)	10.5 (0.41)	G1/4"
08	52.4 (2.06)	60.0 (2.36)	73.6 (2.90)	29.0 (1.14)	26.2 (1.03)	108.6 (4.28)	187.0 (7.36)	24.3 (0.96)	25.0 (0.98)	10.5 (0.41)	G1/4"
10	58.7 (2.31)	75.0 (2.95)	83.5 (3.29)	36.5 (1.44)	30.2 (1.19)	118.5 (4.67)	198.0 (7.80)	29.3 (1.15)	32.0 (1.26)	12.5 (0.49)	G1/4"

F5C.indd, ddp

