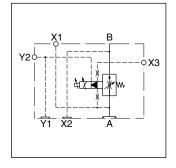
Parker Series F5C Proportional Throttle Valve Service Manual

Proportional throttle valves series F5C allow to adjust the 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:

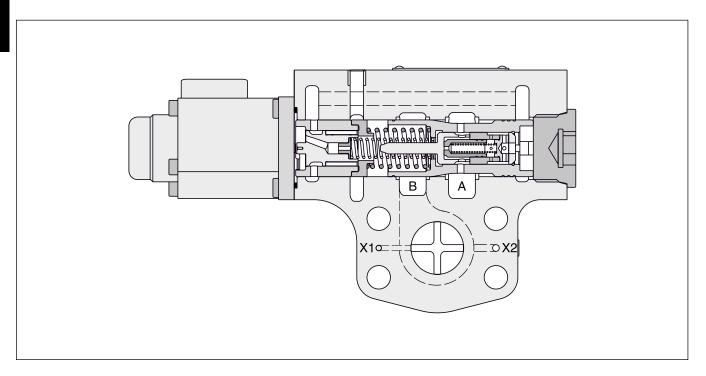
standard 350 ms at 1 l/min pilot flow code A 250 ms at 2 l/min pilot flow

08



Features

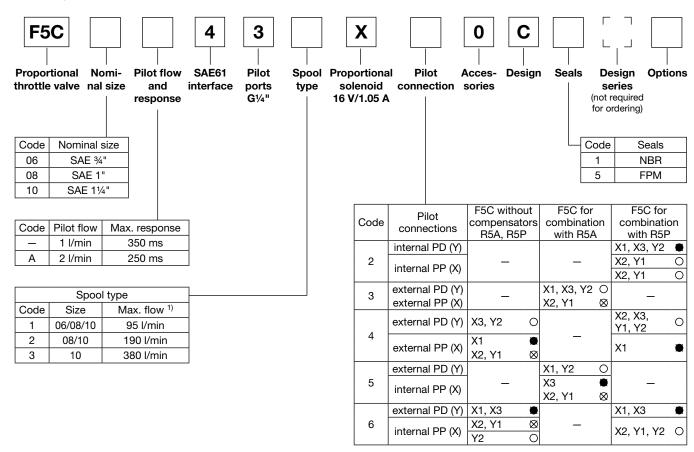
- Spool type proportional throttle valve
- SAE61 flange
- Maximum flow 380 l/min
- 3 sizes, SAE 3/4", 1", 1 1/4"
- Load compensated flow in combination with R5A/R5P



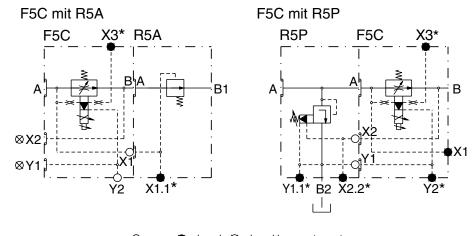


Ordering Code / Pilot Connection

Ordering Code



Pilot connection explanation



[○] open closed ⊗ closed by counterpart



¹⁾ At nominal pressure drop ($\Delta p = 8.4$ bar).

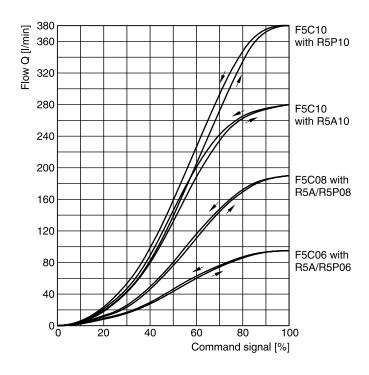
^{*} optional

Technical Data / Characteristic Curves

Technical data

General								
Size			06 (¾")	08 (1")	10 (11/4")			
Mounting			Flanged according to SAE61					
Mounting pos	sition		unrestricted					
Ambient temp	perature	[°C]	-20+60					
Weight [kg]			3.9	4.1	5.8			
Hydraulic								
Max. operating	ng pressure							
	Ports A, B, X1	, X2, X3 [bar]	350	300	280			
	Ports Y1, Y2	[bar]	70					
Max. pressure	e drop (from A to B)	[bar]	21					
Nominal flow [I/min]			95	190	380			
Fluid			Hydraulic oil according to DIN 51524					
Fluid tempera	ature	[°C]	-20+70 (NBR: -25+70)					
Viscosity	permitted	[cSt] / [mm ² /s]						
	recommended	[cSt] / [mm ² /s]	3080					
Filtration			ISO 4406 (1999); 18/16/13					
Electrical ch	aracteristics							
Duty ratio			100 % ED; CAUTION: coil temperature up to 150 °C possible					
Solenoid con	nection		Connector as per EN175301-803, solenoid identification as per ISO 9461					
Protection cla	ass		IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)					
Supply voltag	je	[V]	16					
Current consi	umption	[A]	1.05					
Resistance		[Ohm]	11.3					
Response time [ms]			see ordering code					

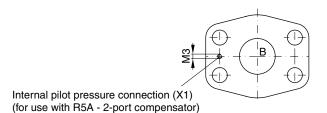
Characteristic curves



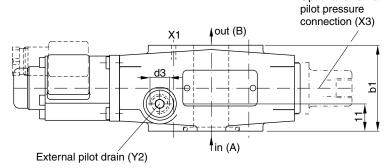
All characteristic curves measured with HLP46 at 50 $^{\circ}\text{C}.$

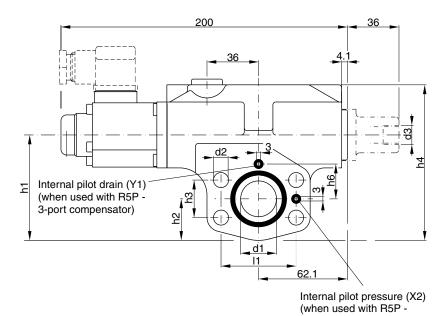


Dimensions



e o o







Optional external



Seal kits						
NG	NBR	FPM				
06 / 08 / 10	S26-58484-0	S26-58484-5				

	I1	b1	h1	h2	h3	h4	h5	h6	d1	d2	d3
F5C06	47.6	60	68.2	26	22.2	103.2	183	20.8	19	10.5	G1/4"
F5C08	52.4	60	73.6	29	26.2	108.6	187	24.3	25	10.5	G1/4"
F5C10	58.7	75	83.5	36.5	30.2	118.5	198	29.3	32	12.5	G1/4"

