Characteristics

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.

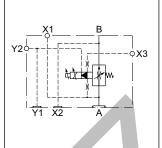
The F5C is offered with two types of response time:

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

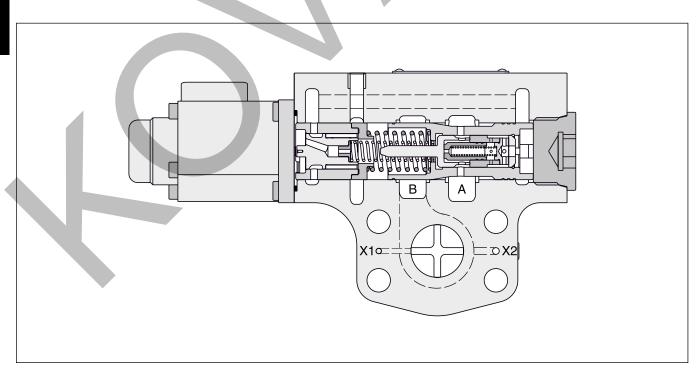
Features

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



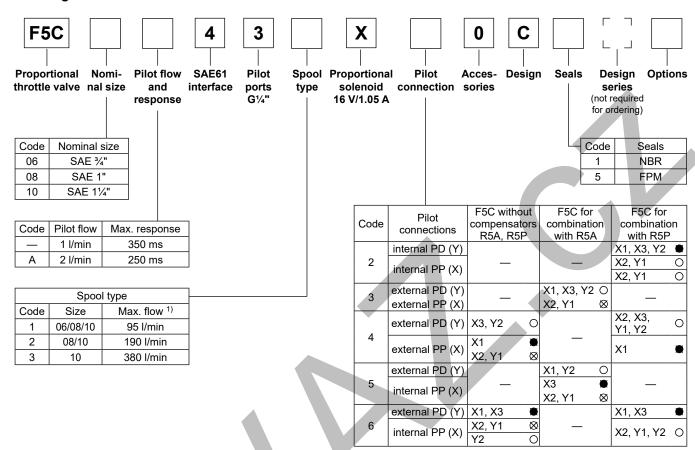




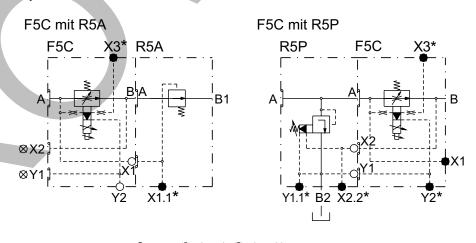




Ordering Code



Pilot connection explanation



O open ■ closed ⊗ closed by counterpart

F5C UK.INDD 02.08.22



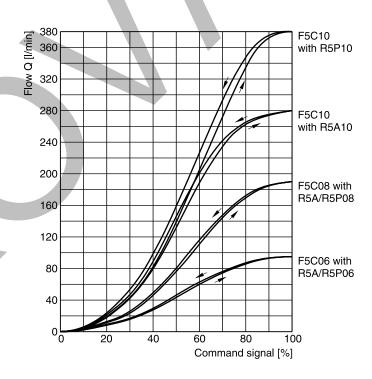
¹⁾ At nominal pressure drop ($\Delta p = 8.4$ bar).

^{*} optional

Technical data

General									
Size				06 (¾")	08 (1")	10 (11/4")			
Mounting				Flanged according to SAE61					
Mounting position				unrestricted					
Ambient temperature [°C]				-20+60					
Weight		[k	g]	3.9	4.1	5.8			
Hydraulic									
Max. operating pressure									
	Ports A, B, X1, X	(2, X3 [ba	ar]	350	300	280			
	Ports Y1, Y2	[ba	ar] 7	70					
Max. pressure drop (from A to B) [bar]				21					
Nominal flow		[l/mi	n]	95	190	380			
Fluid			F	Hydraulic oil according to DIN 51524					
Fluid temperature [°C]				-20+70 (NBR: -25+70)					
Viscosity	permitted	[cSt] / [mm ² /	s] 2	20400					
	recommended	[cSt] / [mm ² /	s] 3	3080					
Filtration			Į.	SO 4406 (1999); 18/16/13					
Electrical cha	aracteristics				\boldsymbol{A}				
Duty ratio				100 % ED; CAUTION: coil temperature up to 150 °C possible					
Solenoid connection				Connector as per EN175301-803, solenoid identification as per ISO 9461					
Protection class				IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)					
Supply voltage [V]				16					
Current consumption [A]				1.05					
Resistance		[Ohr	n] 1	11.3					
Response tim	е	[m	s] s	see ordering code					

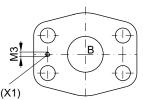
Characteristic curves



All characteristic curves measured with HLP46 at 50 °C.

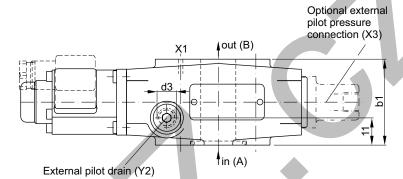
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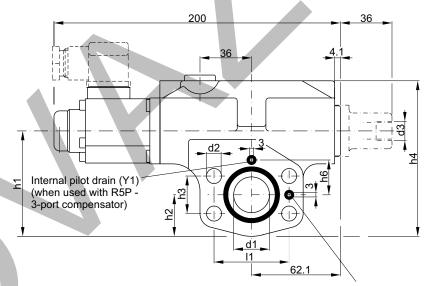




Internal pilot pressure connection (X1) (for use with R5A - 2-port compensator)

© h5





Internal pilot pressure (X2) (when used with R5P -3-port compensator)



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"



