

FS190 Series

Excess Flow Shutoff Valve

Stainless Steel



Value Proposition:

Parker's FS190 Series excess flow shutoff valve operates within a wide range of inlet pressures from 10 to 3,500 psig. A non-attitude sensitive valve, FS190 can be used between a high-pressure source at the inlet to the pressure regulator or in low-pressure delivery lines to a process. In both applications, this control valve will automatically shut off delivery of gas should the flow exceed the preset limit.

Product Features:

- Offered with six different pressure / flow limits
- Differential pressure created is not affected by mounting orientation (non-attitude sensitive)
- Actuating knob designed to manually operate valve and clearly indicate relative operating position - Open (Reset) or Auto (Shutoff)
- Pneumatic actuator available to reset the valve remotely

Specifications:

Functional Performance	
Design	
Burst Pressure	10,500 psig (724 barg)
Proof Pressure	5,250 psig (362 barg)
Leak Rate	
Internal	Bubble Tight
External (NPT Threaded)	Bubble Tight
Internal Volume	1.86 cc
Approximate Weight	12.5 oz. (0.32 kg)
Operating Conditions	
Temperature	-10°F to 150°F (-23°C to 66°C)
Supply Pressure	Based on Flow Limit Setting
A-D Flow Limits:	10 psig to 3,500 psig (0.7 barg to 241 barg)
E-F Flow Limits:	20 psig to 3,500 psig (1.4 barg to 241 barg)
Differential Pressure	5 psig or 12 psig (0.3 barg or 0.8 barg)
Flow Limit Settings	6 available - see Ordering Information section

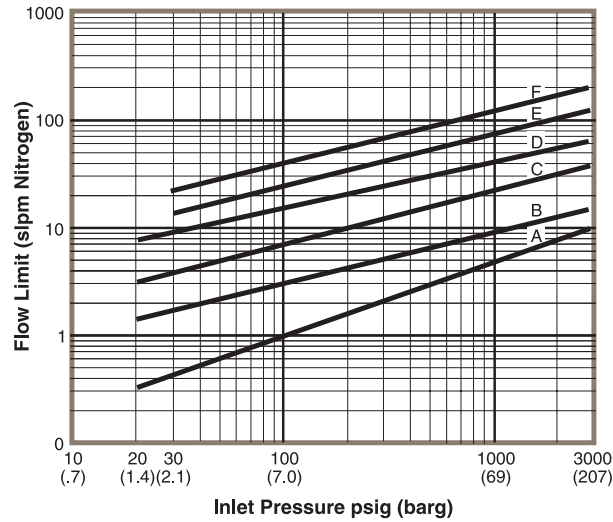
Material of Construction	
Wetted	
Body	316L Stainless Steel
Compression Member	316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Poppet	316L Stainless Steel
Spring	Hastelloy® C-22
Orifice	316L Stainless Steel
Seat	PCTFE
Non-Wetted	
Cap	316L Stainless Steel
Stem	303 Stainless Steel
Knob	Aluminum (Red)

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

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Flow Curve:



Ordering Information:

Building a Part Number: *Example: FS190SAFSFMAOP*

Example Part Number:	FS190	S	A	P	AOP
Ordering Parameters/Options:	Series	Material	Flow Limit Setting	Connection (Inlet and Outlet)	Optional Features
Table Reference: (see below)	A	B	C	D	E

A - Series	
FS190	FS190 Series Valve

D - Connection (Inlet and Outlet)	
P	1/4" NPTF

B - Body Material	
S	316L Stainless Steel

E - Optional Features (This section can have multiple options)	
AOP	Air Operated
C3	Cleaned for Oxygen Service (Oxygen cleaning requirements are in accordance with Parker Specification ES8003)

C - Flow Limit Settings (Nominal Flow Limit at:)		
	1,000 psig Inlet	30 psig Inlet
A	4.8 SLPM	0.4 SLPM
B	9.1 SLPM	1.7 SLPM
C	21.8 SLPM	3.9 SLPM
D	39.5 SLPM	9.0 SLPM
E	72.3 SLPM	14.4 SLPM
F	120.6 SLPM	22.5 SLPM

Hastelloy® C-22 and Hastelloy® C-276 are registered trademarks of Haynes International, Inc.

FS190 Series

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ENGINEERING YOUR SUCCESS.