



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, Craig Beckwith, Division General Manager

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Parker Hannifin Corporation, Instrumentation Products Division

(Name of Manufacturer)

Located at 1005 A Cleaner Way, Huntsville, Alabama, USA 35805

(Plant Address)

256-881-2040

(Telephone No.)

(Fax No.)

☐ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☒ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3, ASME B16.34 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, DNV-GL

The items covered by this declaration, for which I seek registration, are category C type fittings. In support of this application, the following information and/or test data are attached as follows:

Scope of Registration Renewal and Revision 0C12007.5, Test Report 2019-523 with Attachments

(drawings, calculations, test reports, etc.)

Declared before me at Huntsville in the State of Alabama

the 19th day of June AD 20 19

Commissioner for Oaths:

Sheri Cogan

(Printed name)

Sheri Cogan

(Signature)

[Signature]

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C

CRN:

0C12007.5R1

NOTE: SEE ATTACHED
"PART OF CRN"
FOR THE SCOPE.

Registered by:

Charley Dons

Dated:

Aug. 8, 2019

NOTE: This registration expires on: Aug. 8, 2029

Aug 8, 2019

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0C12007.5R1

Signed: Charley Dons

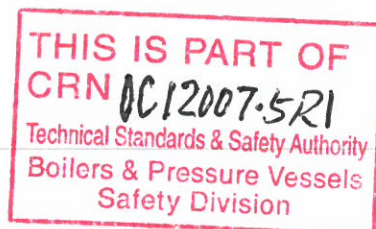
Date: Aug 8, 2019

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

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)
Surface Finish	
Standard	15 - 20 microinch Ra (0.38 to 0.5 micrometer) or less
Optional (EX)	10 microinch Ra (0.25 micrometer) or less - not available with 1/4" NPTF Inlet and Outlet connection option (P)
	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)
A-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 Options	316L Stainless Steel (std) or Hastelloy® C-22
Diaphragm	Elgiloy® or equivalent
Poppet Options	316L Stainless Steel (std) or Hastelloy® C-22
Spring	Hastelloy® C-22
Orifice Options	316L Stainless Steel (std) or Hastelloy® C-22
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.

Hastelloy® C-22 and Hastelloy® C-276 are registered trademarks of Haynes International, Inc. Elgiloy® is a registered trademark of Elgiloy Company.

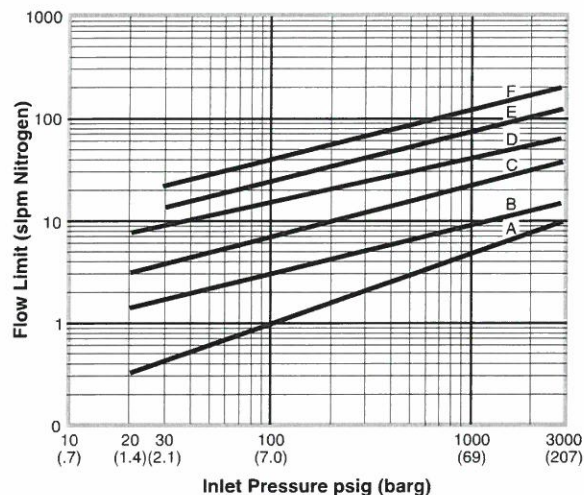


INSTRUMENTATION PRODUCTS DIVISION

ENGINEERING YOUR SUCCESS.

FS190 Series

Flow Curve:



THIS IS PART OF
CRN **QC12007-5R1**
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

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
-------	--------------------

B - Body Material

S	316L Stainless Steel
---	----------------------

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

D - Connection (Inlet and Outlet)

P	1/4" NPTF
---	-----------

E - Optional Features (This section can have multiple options)

AOP	Air Operated
TH	Hastelloy® C-22 Trim Internals Includes compression member, poppet, spring and orifice
3.46	FLV 110 Dimensional Replacement 3.46" end-to-end dimensions
3.70	FLV 120 Dimensional Replacement 3.70" end-to-end dimensions
5.25	5.25" end-to-end dimensions
5.75	5.75" end-to-end dimensions
C3	Cleaned for Oxygen Service (Oxygen cleaning requirements are in accordance with Parker Specification ES8003)

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