

F581 Filter

- Port size: 9/16" UNF or 13/16" UNF
- Protects pressure system components against particles
- Robust corrosion resistant design
- Stainless steel body material



Technical features

A rugged, all stainless steel filter. Includes a enwrap stainless steel mesh element which can be easily removed for maintenance.

Medium:
Gases, Hydrogen, neutral non-aggressive gases

Maximum inlet pressure:
1.100 bar (15.950 psi)

Filtration:
2; 5; 10; 25 µm
5 Standard

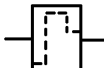
Port size:
- 9/16-18 UNF Cone Thread
Connector for 3/8" HP tubing
- 13/16-16 UNF Cone Thread
Connector for 9/16" HP tubing
Custom on Request

Ambient/Media temperature:
-20 ... +99°C (-4 ... +210°F) (NBR)
-40 ... +99°C (-40 ... +210°F) (EPDM)

Flow Example:
Delta <P 1 bar for flowrate 30g/s at 900 bar H2
Delta <P 1 bar for flowrate 120g/s at 1.050 bar H2

Materials:
Body: Stainless steel 316L
Filter: Enwrap stainless steel mesh
Elastomers:
Preferred for Hydrogen EPDM
On request NBR, FPM and custom

Technical data – standard models

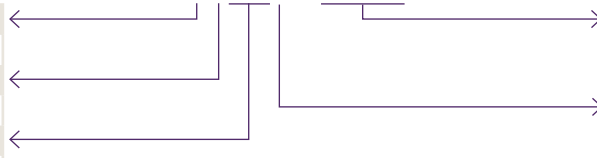
Symbol	Tubing size	Port size	Operating pressure PS	Filtration size (µm)	Internal diameter (mm)	O-ring material	Model
	3/8" MP Tubing	9/16-18 UNF	1.100 bar	2	5	EPDM	F581XT6X001188
				5			F581XT1X001188
				10			F581XT2X001188
				25			F581XT4X001188
	9/16" MP Tubing	13/16-16 UNF		2	9,2		F581XT6X001187
				5			F581XT1X001187
				10			F581XT2X001187
				25			F581XT4X001187

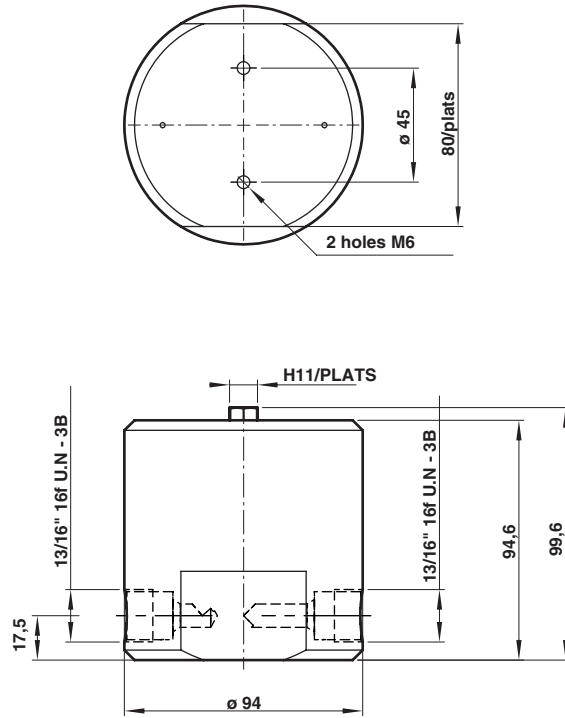
Option selector

F581★★★★X00★★★★

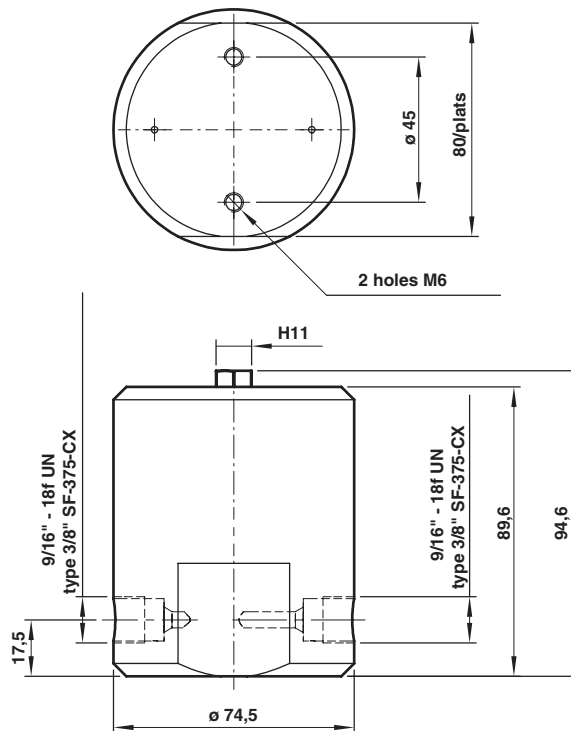
Property	Substitute
Housing Material	Stainless steel
Max. Operating pressure	1100 bar
Filtration class	2 µm
	5 µm
	10 µm
	25 µm

Property	Substitute
Cone Thread Connection	3/8" MP Tubing system
	9/16" MP Tubing system
Rubber Material	EPDM 90sh





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Warning

Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI, IMF sas.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.