

SPORLAN - SUCTION FILTER WITH THE EXCLUSIVE BI-DIRECTIONAL FEATURE



DESIGN BENEFITS

- Protects the compressor from dirt
- A relief device opens if the filter plugs
- Suitable for use with all brazing alloys
- Maximum corrosion resistance
- Full flow design for low pressure drop
- Complete line of sizes

Sporlan offers an exclusive concept in Suction Filter design — a filter which is Bi-directional. When flow is in **one direction**, the bypass relief feature is active. If the pressure drop across the element becomes excessive the bypass relief will open slightly to maintain sufficient gas flow and assure proper cooling of the hermetic motor.

When the Suction Filter is installed with flow in the **opposite direction**, the bypass relief feature is inactive and will never open, regardless of the increase in pressure drop.

The “-T” in the part number indicates that these models are equipped with an access valve to permit pressure drop readings. The access valve will be operational provided the Suction Filters are installed with the bypass feature inactive.

SPECIFICATIONS

Types with bypass relief feature (Bi-directional Flow)

PART NO		CONNECTIONS (in)	FILTER AREA Sq In	Overall Length Inches	Dimensions	
WITHOUT Access Valve	WITH Access Valve				SOCKET DEPTH Inches	SHELL DIAMETER Inches
SF-283-F	--	3/8 SAE Flare	28	8.78	--	3.00
--	SF-285-T	5/8 ODF Solder	28	8.34	0.62	3.00
--	SF-286-T	3/4 ODF Solder	28	8.79	0.69	3.00
--	SF-287-T	7/8 ODF Solder	28	8.93	0.75	3.00
--	SF-289-T	1-1/8 ODF Solder	28	9.51	0.91	3.00
--	SF-489-T	1-1/8 ODF Solder	48	12.42	0.91	3.00
--	SF-4811-T	1-3/8 ODF Solder	48	13.10	0.97	3.00
--	SF-4813-T	1-5/8 ODF Solder	48	13.44	1.09	3.00

Types without bypass relief feature (Single Flow Direction)

PART NO		CONNECTIONS (in)	FILTER AREA Sq In	Overall Length Inches	Dimensions	
WITHOUT Access Valve	WITH Access Valve				SOCKET DEPTH Inches	SHELL DIAMETER Inches
SF-114	--	1/2 ODF Solder	11	4.36	0.50	2.00
SF-114-F	--	1/2 ODF Flare	11	5.25	--	2.00
SF-115	--	5/8 ODF Solder	11	4.60	0.62	2.00
SF-115-F	--	5/8 ODF Flare	11	5.56	--	2.00
--	SF-6417-T	2-1/8 ODF Solder	388	1094	1.24	4.75
--	SF-6421-T	2-5/8 ODF Solder	388	1094	1.38	4.75

SELECTION RECOMMENDATION

PART NO		CONNECTIONS (in)	NOMINAL SYSTEM HORSEPOWER* Refrigerant	
WITHOUT Access Valve	WITH Access Valve		12, 134a, 404A, 502, 507	22, 407C
SF-114	--	1/2 ODF	1/2	1
SF-114-F	--	1/2 SAE	1/2	1
SF-115	--	5/8 ODF	1	2
SF-115-F	--	5/8 SAE	1	2
SF-283-F	--	3/8 SAE	1/2	1
--	SF-285-T	5/8 ODF	1-1/2	4
--	SF-286-T	3/4 ODF	1-1/2	5
--	SF-287-T	7/8 ODF	3	7-1/2
--	SF-289-T	1-1/8 ODF	5	7-1/2
--	SF-489-T	1-1/8 ODF	5	10
--	SF-4811-T	1-3/8 ODF	5	12
--	SF-4813-T	1-5/8 ODF	7	15
--	SF-6417-T	2-1/8 ODF	20	55
--	SF-6421-T	2-5/8 ODF	30	60

*Use R-502 horsepower recommendations for R-502A & B and R-508A.

Use R-12 horsepower recommendations for R-501A & B and R-509A.

Ratings are in accordance with ARI Standard 730.