

# 8300 & 8400 Series In-Line Filters

## FILTER ASSEMBLY PART NUMBER

INLET OUTLET  
**S83 - 4D 4D N - 10WE**

### HOUSING MATERIAL

Code	Material	Pressure (PSI) Operating/Proof/Burst
G83	316 SS	3,000/4,500/12,000
S83	303 SS	3,000/4,500/12,000
P84	17-4 SS	6,000/9,000/24,000
P8410K	17-4 SS	10,000/15,000/40,000
P8420K	17-4 SS	20,000/30,000/80,000
P8430K	17-4 SS	30,000/45,000/120,000

### MICRON RATING

	Code	Nominal	Absolute	Collapse Rating (PSI)
Microglass	3MD	N/A	3	3,250
	6MD	N/A	6	3,250
	12MD	N/A	12	3,250
Wire Mesh	10WE	2	10	4,500
	18WE	5	18	4,500
	25WE	10	25	4,500
	40WE	20	40	4,500
	75WE	40	75	4,500
	150WE	75	100	4,500

### FITTING SIZE AND TYPE

Note: P8410K assemblies only available with 4F, 6F, 8F, 4S, and 6S fittings

Code	Available Housing Options	Port Size	Port Description	Tube /Pipe	Hex Size	Rnd. Size	Ele.#	Flow Rate GPM/SCFM
2F	G83,S83,P84	1/8"	Female NPT	Pipe	1"	1.25"	712	6/295
4D	G83,S83,P84	1/4"	Male O-Ring	Tube	1"	1.25"	711	2.5/155
4F	G83,S83,P84,P8410K	1/4"	Female NPT	Pipe	1.5"	1.75"	713	10/550
4J	G83,S83,P84	1/4"	37° Flare:J-Fitting	Tube	1"	1.25"	711	2.5/155
4S	G83,S83,P84,P8410K	1/4"	Female O-Ring	Tube	1"	1.25"	711	2.5/155
6D	G83,S83,P84	3/8"	Male O-Ring	Tube	1.5"	1.75"	712	6/295
6F	G83,S83,P84,P8410K	3/8"	Female NPT	Pipe	1.5"	1.75"	713	10/550
6J	G83,S83,P84	3/8"	37° Flare:J-Fitting	Tube	1.5"	1.75"	712	6/295
6S	G83,S83,P84,P8410K	3/8"	Female O-Ring	Tube	1.5"	1.75"	712	6/295
8D	G83,S83,P84	1/2"	Male O-Ring	Tube	1.5"	1.75"	713	10/550
8F	G83,S83,P84,P8410K	1/2"	Female NPT	Pipe	2"	2.25"	715	16/1150
8J	G83,S83,P84	1/2"	37° Flare:J-Fitting	Tube	1.5"	1.75"	713	10/550
8S	G83,S83,P84	1/2"	Female O-Ring	Tube	1.5"	1.75"	713	10/550
12D	G83,S83,P84	3/4"	Male O-Ring	Tube	2"	2.25"	715	16/1150
12F	G83,S83,P84	3/4"	Female NPT	Pipe	N/A	2.5"	716	40/1625
12J	G83,S83,P84	3/4"	37° Flare:J-Fitting	Tube	2"	2.25"	715	16/1150
12S	G83,S83,P84	3/4"	Female O-Ring	Tube	2"	2.25"	715	16/1150
16AD	G83,S83,P84	1"	Male O-Ring	Tube	N/A	2.5"	716	40/1625
16AF	G83,S83,P84	1"	Female NPT	Pipe	N/A	2.5"	716	40/1625
16AJ	G83,S83,P84	1"	37° Flare:J-Fitting	Tube	N/A	2.5"	716	40/1625
16AS	G83,S83,P84	1"	Female O-Ring	Tube	N/A	2.5"	716	40/1625
1MP	P8420K,P8430K	1/4"	Medium Pressure	N/A	N/A	N/A	711	2.5/155
2MP	P8420K,P8430K	3/8"	Medium Pressure	N/A	N/A	N/A	711	2.5/155
4HP	P8430K	1/4"	High Pressure	N/A	N/A	N/A	711	2.5/155
6HP	P8430K	3/8"	High Pressure	N/A	N/A	N/A	711	2.5/155

### O-RING TYPE

Code	Description	Temperature (°F)
N	Nitrile (Buna)	-40 to 250
N9	Nitrile 90 Durometer	-40 to 250
V	Viton	-20 to 400
V9	Viton 90 Durometer	-20 to 400
E	EPR	-60 to 300
K	Kalrez	-40 to 550
S	Teflon Encapsulated Viton	-10 to 300
T	Teflon	-320 to 450

- Kalrez, and Teflon products will incur additional product cost
- Add the Kalrez o-ring number to the end of the part number (ex: G8550-K-707510WE-VD1B2)
- Kalrez will incur longer lead times
- Teflon Max operating pressure = 10k psi

### STANDARD CONFIGURATIONS

Inlet/Outlet Description	Inlet Fitting	Outlet Fitting
Male NPT/Male NPT	M	M
Female O-Ring/Female O-Ring	B	B
37° Flare:J-Fitting/37° Flare:J-Fitting	T	T
Male NPT/Female NPT	M	P
Female O-Ring/37° Flare:J-Fitting	B	T
Female NPT/Male O-Ring	P	D
37° Flare:J-Fitting/Male NPT	T	M
Female NPT/Female NPT	P	P
Male O-Ring/Male O-Ring	D	D
Compression/Compression	C	C
Male NPT/Female O-Ring	M	B
Female O-Ring/Male O-Ring	B	D
37° Flare:J-Fitting/Female NPT	T	P
37° Flare:J-Fitting/Male O-Ring	T	D

- Custom configurations available upon request

### REPLACEMENT ELEMENT PART NUMBER

**713 - 25WE N**

### O-RING TYPE

### MICRON RATING

### HOUSING MATERIAL

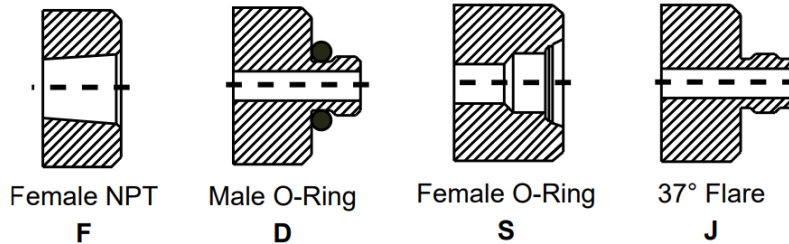
### ADDITIONAL SPECIFICATIONS

- Flow rate of 40GPM / 1750 SCFM
- Assemblies that do not use the same Hex raw material size must be custom quoted
- Female O-Ring machined to AS5202 (MS33649), 37° Flare to AS5202 (AS4395)
- Additional housing material options of Brass and Monel available upon request

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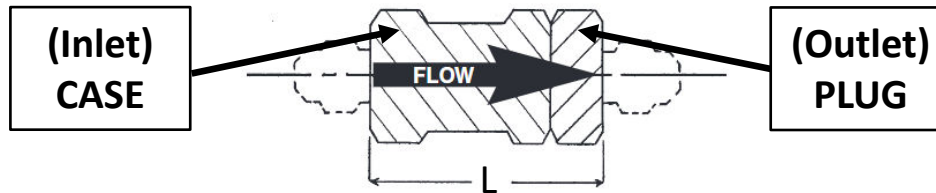


## FITTING TYPES



Note: The Female o-ring (**S**) is machined to SAE AS5202 (MS33649). 37° Flare (**J**) is machined to AS4395 (MS33656)

## DIMENSIONS



## Overall Length

Inlet Port (Case) Description	Inlet Port (Case) Size	Inlet Port (Case) Code	Overall Length (L)	Approx. Wgt. (lbs)
Female NPT	1/8"	2F	4.75"	2
	1/4"	4F	6"	2.5
	3/8"	6F	6"	2.5
	1/2"	8F	7.75"	6
	3/4"	12F	8.75"	8
	1"	16AF	9.25"	9
Male O-Ring	1/4"	4D	4.12"	2.5
	3/8"	6D	4.25"	2.5
	1/2"	8D	5.5"	3.5
	3/4"	12D	7"	4
	1"	16AD	9.25"	9
Female O-Ring	1/4"	4S	4.81"	2.5
	3/8"	6S	4.75"	2.5
	1/2"	8S	6"	3.5
	3/4"	12S	7.75"	4
	1"	16AS	9.25"	9
37° Flare / J-Fitting	1/4"	4J	4.12"	2.5
	3/8"	6J	4.25"	2.5
	1/2"	8J	5.5"	3.5
	3/4"	12J	7"	4
	1"	16AJ	9.25"	9