Donaldson.

SP100/120 Spin-On Filters

Working Pressures to:	150 *psi* 1035 kPa 10.3 bar
Rated Static Burst to:	250 *psi* 1725 kPa 17.2 bar
Flow Range to:	
Return-line <	120 *gpm* 454 *l*/min
Suction <	35 *gpm* 132 *l*/min

Features

SP100/120 double element head allows for double the flow capacity and a unique, space-saving configuration. Aluminum casting and Buna-N seals standard. SP100/120 elements are interchangeable with SP50/60 filters.

Beta Rating
- Performance to $ß_{6(c)}$=1000

Porting Sizes
- 1½" NPT

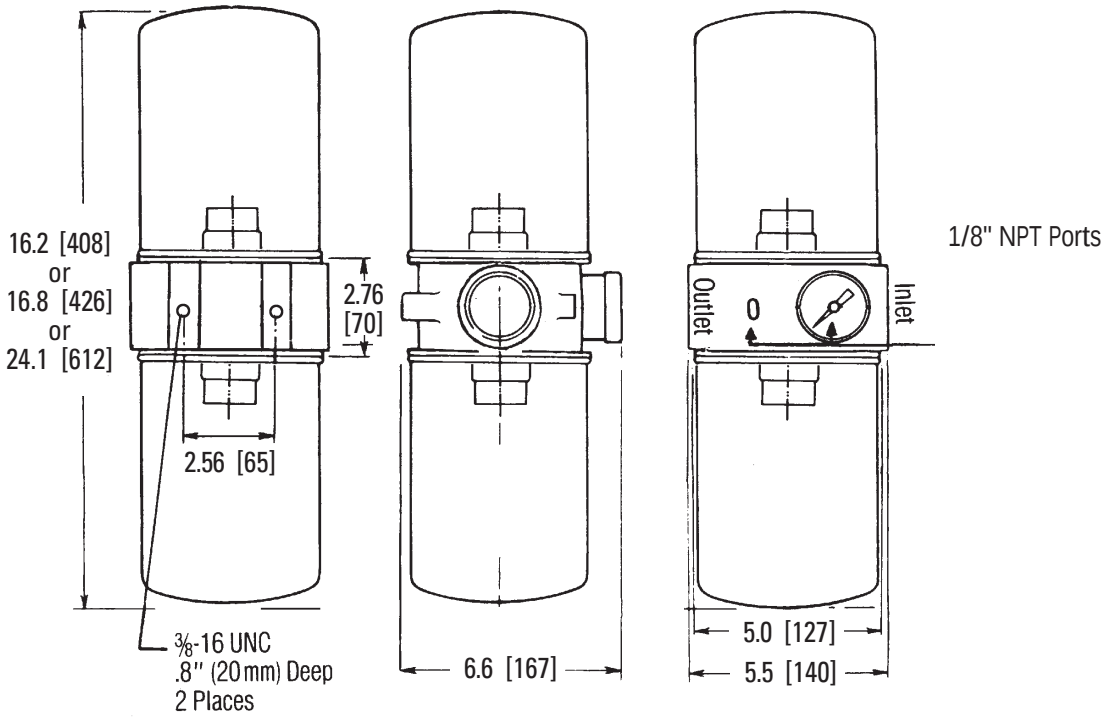
Replacement Filter Lengths
- 6.7" / 170*mm*
- 7.0" / 178*mm*
- 10.7" / 271*mm*

Standard Bypass Ratings
- 25 psi / 172.5 kPa / 1.72 bar

Operating Temperatures
- -22°F to 250°F / -30°C to 121°C

Assembly Weight
- 7.0 lbs (short)
- 8.8 lbs (long)

Assembly - Side View



Element removal clearance = 1.2 [30]

All dimensions are shown in inches [millimeters]

SP100/120 Components

Element Choices

Media Type	Beta$_{x(c)}$=200 Rating	Beta$_{x(c)}$=1000 Rating	Length (in./mm)	Donaldson Part No.	LHA Part No.	Comments	Brand
Cellulose Media #3		24µm	6.7/169	P550386	n/a		Donaldson
Cellulose Media #3		24µm	10.7/271	P550250	n/a		Donaldson
Cellulose Media #10		23µm	6.7/169	P550388	n/a		Donaldson
Cellulose Media #10		23µm	10.7/271	P550251	n/a		Donaldson
Cellulose Media #10		23µm	6.7/169	P562201	SPE-50-10		LHA
Cellulose Media #10		23µm	7.00/178	P564052	SPE-52-10	1¼" BSP thread	LHA
Cellulose Media #10		23µm	10.7/271	P562204	SPE-60-10		LHA
Cellulose Media # 3		24µm	6.7/169	P562200	SPE-50-3-N		LHA
Beta-10 Absolute Synthetic		10µm	6.7/169	P562207	SPE-50-BTA-10	Synthetic	LHA
Beta-10 Absolute Synthetic		10µm	10.7/271	P562208	SPE-60-BTA-10	Synthetic	LHA
Beta 3 Absolute Synthetic		6µm	6.7/169	P562209	SPE-50-BTA-3	Synthetic	LHA
Beta 3 Absolute Synthetic		6µm	10.7/271	P564055	SPE-60-BTA-3	Synthetic	LHA
Cellulose Media #25	32µm		6.7/169	P550387	n/a		Donaldson
Cellulose Media #25	32µm		10.7/271	P550252	n/a		Donaldson
Cellulose Media #25	32µm		6.7/169	P562202	SPE-50-25		LHA
Cellulose Media #25	32µm		7.0/178	P564053	SPE-52-25	1¼" BSP thread	LHA
Cellulose Media #25	32µm		10.7/271	P562205	SPE-60-25		LHA
Water Absorbing	10µm water absorption		10.7/271	P561183	n/a	Absorbs 24 oz./700 ml water	Donaldson
Water Absorbing	10µm water absorption		10.7/271	P562206	SPE-60-H-10	Absorbs 24 oz./700 ml water	LHA
Wiremesh	150µm nominal		6.7/169	P550275	n/a	Stainless Steel	Donaldson
Wiremesh	150µm nominal		10.7/271	P550276	n/a	Stainless Steel	Donaldson
Wiremesh	150µm nominal		6.7/169	P562203	SPE-50-140W		LHA

All models have 1½ -16 UNF threads except for SPE-52 models. SPE-52 models have 1¼" BSP threads.
All models measure 5.0"/ 127mm outer diameter.

Head Choices for SP100/120

Port Size	Bypass Rating	Gauge Ports (drill, tap, plug)	Gauge Port Location	DCI Part No.	LHA Part No.
1½" NPT	25 psi / 172.5 kPa / 1.72 bar	(4) 1/8" NPT	upstream & downstream sides	P563277	SP100N*HN1

Donaldson

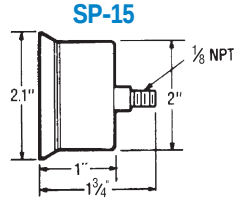
Optional Filter Service Indicators

This handy pressure gauge, mounted on the side of an SP100/120 filter head, will tell you when it's time to service the filter element.

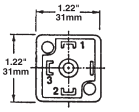
Donaldson Part No.	LHA Part No.	Pressure Range	Use With Bypass Valve Rating	Type	Brand
P563978	EL-P-1	5 to 35 psi field adj.*	15 psi / 103.4 kPa / 1.34 bar or 25 psi / 172.5 kPa / 1.72 bar or No Bypass	Return indicator, electrical	LHA
P563979	EL-V-2	-5 to -30 in Hg field adj.*	5 psi / 34.5 kPa / .34 bar or No Bypass	Suction indicator, electrical	LHA
P563296	SP-15P	0 to 100 psi	15 psi / 103.4 kPa / 1.34 bar or 25 psi / 172.5 kPa / 1.72 bar or No Bypass	Return indicator, numeric scale	LHA
P563297	SP-15P-1	0 to 100 psi	15 psi / 103.4 kPa / 1.34 bar Bypass	Return indicator, color coded	LHA
P563298	SP-15P-2	0 to 100 psi	25 psi / 172.5 kPa / 1.72 bar or No Bypass	Return indicator, color-coded	LHA
P563299	SP-15V	0 to -20 Hg	5 psi / 34.5 kPa / .34 bar or No Bypass	Suction indicator, numeric scale	LHA

Notes
* NOT PRESET: Setting adjustable for desired application

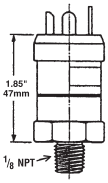
SP-15

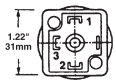


#1 Common; #2 Normally Closed;
#3 Normally Open

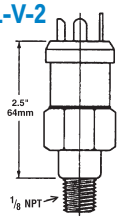


EL-P-1





EL-V-2



EL-P and EL-V Instructions

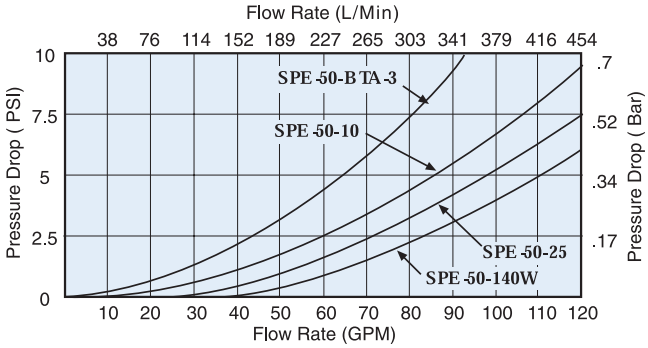
1. Remove DIN adaptor
2. Remove small brass screw
3. Using 1/8" allen wrench adjust clockwise to increase set point/counter-clockwise to decrease set point
4. NO / NC

Adjustment screw located in center of elec. prongs

Performance Data

For a full explanation of how our performance curves were derived, see page 160.

SP100



SP120