

6000 PSIG Pressure Filters

SJ-Series



This robust, stainless steel filter is rated for working pressures up to 6000 PSIG, which makes this the filter of choice for extremely demanding applications. The SJ-series comes in a variety of port sizes and types, reducing the need for extra piping or the use of adapters in your application. The ¼" drain port allows the user to drain all oil from the assembly prior to servicing, eliminating possible cross contamination and leaving a cleaner environment. Use this filter for your offshore applications, water fogging, caustic washdowns (food processing) or on high pressure test stands. A wide variety of filter element media grades and styles means that your application needs will be efficiently met.

Specifications:

Model Number	Port Size (NPT or SAE)	Max. Pressure	Max. Temp. for each Element Type	Materials of Construction			Seals	Sump Capacity	Weight	Dimensions		Replacement Element Size
				Head	Internals	Bowl				Length	Width	
SJN*S, SJS*S	1/2"-1"	6000 PSIG (414 bar)	175°F (Grade A) 350°F (All other grades)	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Fluoro-carbon	2.1 oz. (61 ml)	14 lbs. (6.4 kgs.)	8.26" (210mm)	4.00" (102mm)	11-036
SJN*L, SJS*L	1/2"-1"	6000 PSIG (414 bar)	175°F (Grade A) 350°F (All other grades)	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Fluoro-carbon	7.8 oz. (230 ml)	18 lbs. (8.2 kgs.)	11.97" (304mm)	4.00" (102mm)	11-036
SJN*H, SJS*H	1/2"-1"	6000 PSIG (414 bar)	175°F (Grade A) 350°F (All other grades)	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Fluoro-carbon	2.1 oz. (61 ml)	17 lbs. (7.7 kgs.)	11.97" (304mm)	4.00" (102mm)	11-072

*insert port size: 2=1/2", 3=3/4" and 4=1"

How to Order:

Series Name	Port Type	Port Size	Bowl	Element Grade	Element Construction	Accessories
SJ	N (NPT) S (SAE)	2 (1/2") 3 (3/4") 4 (1")	S (Standard) L (Long bowl, short element, extra sump) H (High Flow: Long bowl, long element)	4C	WC (metal retainers, bonded on end caps with positive o-ring seal.)	N (No Accessories) Examples: SJN2S-4CWCN SJS3L-3PWCN
				10C		
				3P	Leave blank	
A						
				100WS		

How to Order Replacement Elements:

Housings are sold with one element. Build your own replacement element with the chart below.

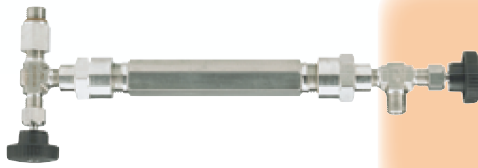
Housing	Element Grade and Type	Element Size
SJN*S, SJS*S, SJN*L, SJS*L	4CWC, 10CWC, 3PWC, AWC, 100WS	11-036
SJN*H, SJS*H	4CWC, 10CWC, 3PWC, AWC, 100WS	11-072

1. Determine the housing you have by choosing from the "Housing" column on the chart. *Insert port size. See How to Order above for more info on port sizes.

2. Determine the "Element Grade and Type" you need. See pages 68-69 for more detail on grade selection.

3. Determine the corresponding element size by choosing from the "Element Size" column on the chart.

4. Combine "Element Grade and Type", "Element Size" and then add Box quantity to the end. Box quantities are all X 4, except 100WS which is X 1. Example: 4CWC11-036 X 4 or 100WS11-072 X 1.



Use a high pressure drain kit with Finite's SJ-Series... see page 88!



Flow Rates (SCFM):

Filter Housing Model	Media Grade	100 PSIG	250 PSIG	500 PSIG	750 PSIG	1000 PSIG	1500 PSIG	2000 PSIG	2500 PSIG	3000 PSIG	3500 PSIG	4500 PSIG	5000 PSIG	5500 PSIG	6000 PSIG
SJN_S	4C	25	58	112	167	221	330	439	548	657	766	984	1093	1202	1311
	10C	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	3P	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	A	33	76	148	220	292	436	580	723	867	1011	1299	1443	1587	1731
	100	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
SJS_S	4C	25	58	112	167	221	330	439	548	657	766	984	1093	1202	1311
	10C	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	3P	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	A	33	76	148	220	292	436	580	723	867	1011	1299	1443	1587	1731
	100	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
SJN_L	4C	25	58	112	167	221	330	439	548	657	766	984	1093	1202	1311
	10C	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	3P	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	A	33	76	148	220	292	436	580	723	867	1011	1299	1443	1587	1731
	100	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
SJS_L	4C	25	58	112	167	221	330	439	548	657	766	984	1093	1202	1311
	10C	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	3P	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
	A	33	76	148	220	292	436	580	723	867	1011	1299	1443	1587	1731
	100	55	127	247	367	487	726	966	1206	1446	1685	2165	2405	2644	2884
SJN_H	4C	62	143	278	413	548	819	1089	1359	1630	1900	2440	2711	2981	3252
	10C	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133
	3P	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133
	A	82	189	368	547	725	1083	1440	1798	2155	2513	3228	3585	3943	4301
	100	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133
SJS_H	4C	62	143	278	413	548	819	1089	1359	1630	1900	2440	2711	2981	3252
	10C	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133
	3P	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133
	A	82	189	368	547	725	1083	1440	1798	2155	2513	3228	3585	3943	4301
	100	136	314	610	907	1203	1796	2389	2982	3575	4167	5353	5946	6539	7133

High Pressure & CNG Filters

Note: _insert port type. See How to Order on page 86 for more information.

Accessories

High Pressure Drain Kits

Product Overview

High pressure compressed gas systems oftentimes contain excessive amounts of liquid aerosols. This liquid can best be removed by utilizing Finite's J-Series or SJ-Series coalescing filters. A Grade 10 filter followed by a Grade 4 filter will remove greater than 99.995% of the liquid water and/or oil carryover from the compressed gas system. This liquid can now be safely removed with Finite's NEW High Pressure Drains (JDK and SJDK Series)! These drains are fully-assembled and are constructed of 316 Stainless Steel. They include two needle valves, fittings, and a pipe reservoir.

The JDK Series is rated for 5000 PSIG and connects directly to the bottom of the J-Series filter housings. The SJDK Series is rated for 6000 PSIG and connects directly to the bottom of the SJ-Series housing. These High Pressure Drains are offered in both vertical and horizontal orientations. The vertical orientation is ideal for applications in which there is adequate bowl removal clearance, while the horizontal orientation is ideal for applications with limited bowl removal clearance.

Operation

Finite's new High Pressure Drains allow the user to safely remove condensate from a high pressure compressed gas system. Proper operation of the drain involves keeping the first needle valve open and the second needle valve closed. The liquid that is coalesced from the filter will empty into the drain's high pressure reservoir and fill the internal volume with liquid.

When it is time to expel the liquid from the drain kit (usually on a preventative maintenance schedule), the top needle valve should be closed to shut off system pressure. The bottom needle valve should then be opened **SLOWLY** since the liquid will discharge rapidly from the drain. This procedure should be repeated until all of the liquid has been removed from the filter bowl and drain reservoir.

All liquid should be collected and disposed of in accordance with local regulations.

A direct connection

Finite's drain kits can be used in many high pressure air or gas system. They can also be used to hook up directly to Finite's J-Series (pages 80-82) or Finite's SJ-Series (pages 86-87).



**JDK5000V/
SJDK6000V**



**JDK5000H/
SJDK6000H**



Part Number	Description	Inlet	Outlet	Max Pressure	Max Temp.
JDK5000V	Vertical J-Series Drain	SAE-6	1/4" NPT	5000 PSIG (345 bar)	100°F (38°C)
JDK5000H	Horizontal J-Series Drain	SAE-6	1/4" NPT	5000 PSIG (345 bar)	100°F (38°C)
SJDK6000V	Vertical SJ-Series Drain	SAE-4*	1/4" NPT	6000 PSIG (414 bar)	100°F (38°C)
SJDK6000H	Horizontal SJ-Series Drain	SAE-4*	1/4" NPT	6000 PSIG (414 bar)	100°F (38°C)

*The SAE-4 fitting can be removed to adapt to 1/4" NPT.

ADS-50

304 Stainless Steel
Automatic Drain Trap



Specifications:

Max Temperature:	450°F (232°C)
Max Pressure:	250 PSIG (17 bar)
Connections:	1/2" NPT inlet and outlet

TD-50

Adjustable Timed Drain Valve



Specifications:

Max Temperature:	150°F (66°C)
Max Pressure:	600 PSIG (42 bar)
Connections:	1/2" NPT inlet and outlet

TV-25-700

Timed Drain Valve



Specifications:

Max. Temperature:	210°F (99°C)
Max. Pressure:	700 PSIG (48 bar)
Connections:	1/4" NPT

DPI-25

Differential Pressure Gauge



Specifications:

Max. Temperature:	200°F (88°C)
Max. Pressure:	5000 PSIG (340 bar)
Connections:	1/4" NPT

Other options available:

- BDPI-25 (DPI-25 with mounting brackets)
- DPS-25 (DPI-25 with SPST reed switch included)
- BDPS-25 (DPS-25 with mounting brackets)

DPG-15HP

Differential Pressure
Gauge



Specifications:

Max. Temperature:	200°F (93°C)
Max. Pressure:	800 PSIG (55 bar)
Connections:	Holes on M-Series housing must be predrilled