

1508 O Street SW #101 Auburn, WA 98001 PH:425.483.5613. sales@controlfactors.com

## FILTER VESSELS

**Bag Filter Housings** 



FSPN Vessels

### **BAGFILTER HOUSINGS FSPN** Vessels

#### Introduction

The FSPN line of filters covers nearly every fluid application need. From the compact FSPN-20 miniature single bag filter vessel to the large multi-bag designs, we have exactly what your flow demands require. The FSPN vessels can also be equipped with a variety of lid opening styles including manual, hydraulic, spring assist and Easy Open.

FSPN filter vessels using size 1 and 2 filter bags are designed, built and stamped to meet code requirements in our own ASME Code manufacturing facilities. Standard equipment features like the single-gasket seal, with sturdy perforated metal baskets provide durable and consistent performance.

#### **Features**

- Stock, Standard and Custom designs available
  - Stock: 1-8 bags
  - Custom: Available up to 99 bag
- ASME Code
- NPT or flange connections
- Positive bag seating without the use of a manual hold-down device
- Single gasket lid seal
- Full ports for unrestricted flow



FILTER VESSELS FILTER BAGS FILTER CARTRIDGES SPECIALTY PRODUCTS **ACCESSORIES** TECHNICAL SPECS



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## **Options**

- Lid Opening types
  - Hydraulic Lid Lift with swing bolts
  - Spring Assist with swing bolts
  - EZ Open lid
- 100 & 300 PSI designs available (available on most models)
- CRN & CE code designs
- NSF 61 Certification available with FSPN Size 2 Vessels in 304 SS and 316 SS
- Solid Teflon or flat-gasket design
- Partial heat jacket or full jacket
- Corrosion allowance
- Mesh lined and heavy-duty rim baskets
- Hastelloy C, Alloy 20, 2205 Duplex (other materials by request)
- Sanitary or Victaulic connections (other connection types by request)

### **BAGFILTER HOUSINGS**

FSPN Vessels								
Specifications								
Number of Bags	1-99							
Filter Bag Size	Single Bag Design: 1, 2, 3, 4 Multi-Bag Design: 1, 2							
Maximum Operating Pressure	150 PSI (10.34 Bar)							
Design Temperature Range	Carbon Steel: 20 to 500°F (-6 to 260°C) Stainless Steel: -20 to 250°F (-28 to 121°C)							
Materials of Construction	Carbon Steel, 304 & 316 Stainless Steel							
Non-Wetted Parts	Carbon Steel: Carbon Steel Stainless Steel: May contain some plated Carbon Steel materials							
Connections	Flange or NPT							
Surface Finish	Carbon Steel: Acrylic enamel painted exterior Stainless Steel: Light sand blast							
Code Stamp (Size 1, 2 only)	ASME Sect VIII, Div1, "U" or "UM" stamp							
Gasket Material	Buna, EPR, Viton, Viton Teflon Encapsulated, Buna White FDA							
PolyLoc® Bag Seal	Positive Bag Seal without manual hold down							
Lid Opening	Hinged or swing bolt with manual davit lid lift See options for alternate set-up							

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### FSPNVESSELS~HOWTO ORDER

FSPN0800



























#### **Model Number** FSPN0800

#### Vessel Material

A = Carbon Steel

B = 304 Stainless Steel C = 316 Stainless Steel

F = Alloy 20

G = Hastelloy C-276

T = Titanium

S = Special

**Vessel Pressure Rating (PSI)** 

0100, 0150, 0300

Per customer specification

**Coating/Lining Material** 

N = None (Standard)

A = Electropolish

F = Paint finish/prep

J = Kvnar or Halar

M = Prime electropolish

P = Plasite (epoxy) (10 mil)

S = Special

T = Teflon

X = Passivation

**Inlet Size** (Example 4"= 04)

Inlet Type

C = Sanitary fitting

D = Flange, din

E = European EN Flange

= Flange, slip-on, raised face, std.

H = Flange, weld neck,

raised face K = Flange, lap joint

M = Male NPT

N = Female NPT

Plain pipe

Special

= Plain OD Tube

W = Socket weld

**Outlet Size** 

(Example 4"= 04)

**Outlet Type** 

See Inlet Type for code letter

**Nozzle Configuration** 

See the nozzle configuration chart (at the end of the FSPN

vessel section)

Internal Usage

A = Removable grate

B = Modified basket seat

Fixed grate

Steel ring bag only

(no Polyloc®)

R = Snap fit rings

S = Special

X = Machined collar for Polyloc® (Std.)

**Lid Opening Type** 

1 = Hinge

2 = Manual davit

3 = Hydraulic davit

4 = Clamshell

5 = E-ZOpen

6 = Spring Assist

= Other

Jacket Type

N = None

P = Partial

= Full

**Jacket Pressure Rating** 

065 (Standard), 100, 150 Per customer specifications

**Jacket Material** 

See Vessel Material group for code letters

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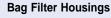


### **Standard FSPN Vessel Models**

Model Number	FSPN 20	FSPN 35	FSPN 40	FSPN 85	FSPN 250	FSPN 355	FSPN 800	FSPN 1100	FSPN 2000	FSPN 2500	FSPN 3000	FSPN 3500	FSPN	FSPN	FSPN	FSPN	FSPN
No. of Bags	1	1	1	1	2	3	4	6	8	10	12	14	16	18	20	22	24
Bag Size No.	3	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Surface Area per Bag, Ft	0.5	1.0	2.0	4.4	4.4	4.4	4.4	4.4.	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Surface Area per Vessel, Ft <sup>2</sup>	0.5	1.0	2.0	4.4	8.8	13.2	17.6	26.4	35.2	44.0	52.8	61.6	70.4	79.2	88.0	96.8	105.6
Inlet and Outlet Size	1"	1"	2"	2"	3-4"	3-4"	4-6"	4-6"	6-8"	8-10"	8-10"	10- 12"	10- 12"	10- 14"	10- 14"	10- 14"	10- 14"
Max Flow Rate, GPM	15	30	60	120	240	360	480	720	960	1200	1440	1680	1920	2160	2400	2640	2880

NOTE: The maximum flow rate GPM is the MAXIMUM FLOW RATE recommended through the vessel using a 10 micron felt filter bag (PONG10) filtering water. Any increase in fluid viscosity will reduce the maximum GPM figures significantly. Please consult your FSI representative when sizing these vessels.

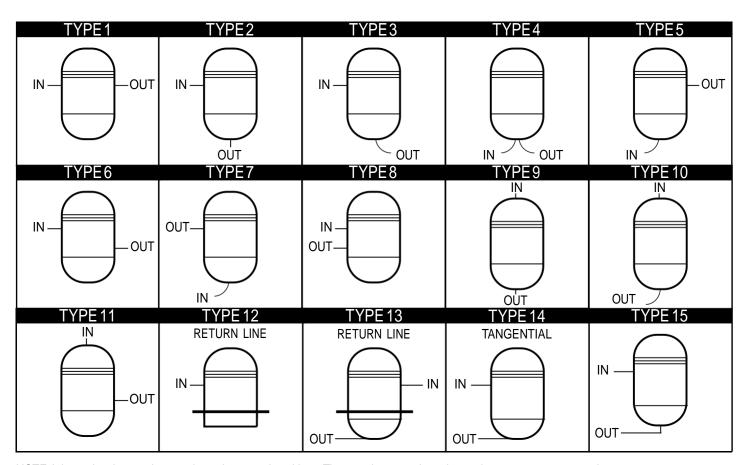
FILTER VESSELS FILTER BAGS FILTER CARTRIDGES SPECIALTY PRODUCTS ACCESSORIES TECHNICAL SPECS







### **FSPNInlet-Outlet Configurations**



NOTE: Inlet and outlet nozzles are shown in general positions. They can be rotated or relocated to meet customer requirements.



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