







WaterflowControl

WFC-FH-P2-3

Bag Filter Housing

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Stainless Steel P2 3-Bag Filter Housing

When you are looking for a cost-effective filter vessel that is both durable and reliable, look to the WFC P3 HSE (Heavy Duty Side Entry) Triple Bag Filter Housing series.

These housings offer standard side-inlet and side outlet connections. The housing is sealed with a high temperature, heat resistant silicone Oring, to handle temperatures up to 80°.

The top of the lid is designed with a handle and gauge port for pressure monitoring and the handle provides easy and safe opening for maintenance.

Bag filters have various configurations and materials of construction, yet the flow in this process is inside-to-outside. This bag filter has a side inlet connection for high-pressure and filtrates exit via the side, whilst the solids are distributed and captured evenly within the filter media. A metal perforated basket holds the bags in place during operation and held down with a compression ring. The dirt-holding capacity is the important parameter for the design of this filter housing.

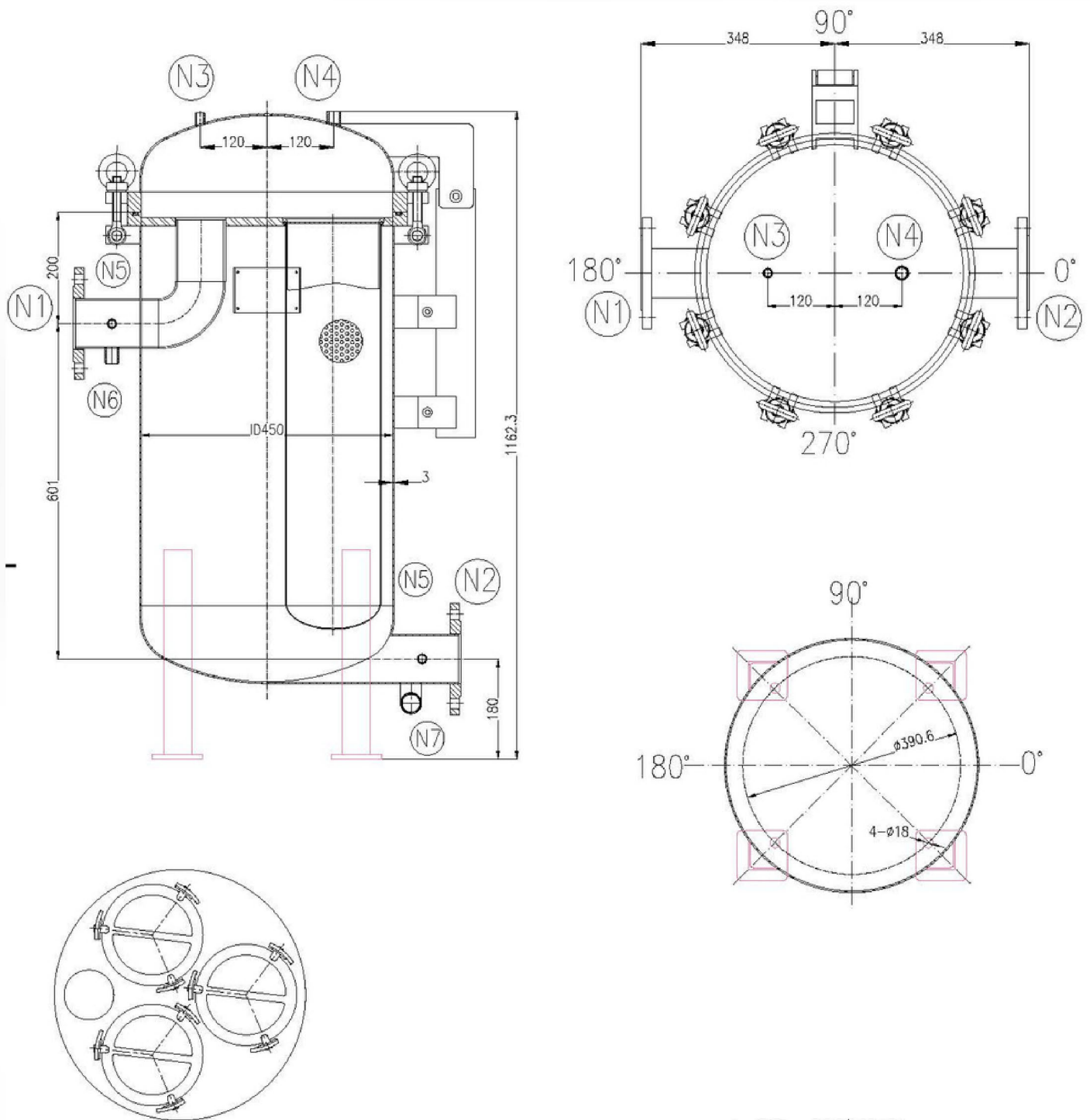
Features

- Stainless Steel 304L
- Hinged Eye Bolt Cover
- 1/4" BSP Gauge Port
- Pressure Release Valve (PRV)
- Low pressure drops from inlet to outlet
- Flange welded Inlet and Outlets
- Easy to clean
- S/S Filter bag compression rings
- Pipe size DN 80mm flanges
- Max Flow 85M3/h or 23.61 l/s
- High Temperature, Heat Resistant Silicone Oring



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Comes with 4 PCS of DN80 flange to 80mm F-BSP adaptors and 4 PCS of DN80 flange to 100mm F-BSP adaptors.



DESIGN DATA TABLE

| DESIGN PARAMETERS | | | SUPERVISE RULE | | — | | | |
|--------------------------------------|---------------------|--------|--|---|---------------------------|--------------------|------------------|---|
| PARAMETER NAME | HOUSING | JACKET | DESIGN CODE | | GB / T 150.1~150.4 - 2011 | | | |
| M.O.P (Mpa) | 0.8 | — | MANUFACTURING | | — | | | |
| Design pres. (Mpa) | 1.0 | — | MANUFACTURING AND INSPECTION REQUIREMENTS | | | | | |
| Max. operating temp (°C) | 0~80 | — | Steel plate / Standard for main pressurised components | | S316/GB/T 24511-2009 | | | |
| Design temperature | 100 | — | Materials / Standards for main forgings | | S31SU6/NB/T 47010-2000 | | | |
| Medium | / | — | Materials / Standards for main opening take-over | | S316/GB/T 14976-2012 | | | |
| Medium properties | / | — | FORM OF JOINT | Except as indicated in the drawing, the type and size of the welded joint shall be as specified in HG/T20583-2011; the fillet size of the fillet weld shall be as specified in the thickness of the thinner plate; the flange welding shall be as specified in the corresponding flange standard; the rest shall be as specified in GB/T985-2008. | | | | |
| Medium density (kg/m ³) | / | — | | | | | | |
| Viscosity (cps) | / | — | SOLDERING | WELDING BETWEEN XX & XX | | WELDING ROD NUMBER | | |
| Material of main pressure components | SS304 | — | | Between carbon steel | | — | | |
| Corrosion allowance (mm) | 0 | — | | Between SS - 304 | | A102 | | |
| Joint efficiency | Class A | 0.85 | | Between SS-316L | | A132 | | |
| | Class B | 0.85 | Between CS & SS | | — | | | |
| Volume (L) | / | — | NONDESTRUCTIVE TESTING | Type of welded joint | Detection rate | Testing STD. | Qual. Level | |
| Filter accuracy (um) | / | — | | A, B | Housing | — | NB/T47013.2-2015 | — |
| Filter area (m ²) | / | — | | A, B | Jacket | — | NB/T47013.2-2015 | — |
| Recommended service life | 10 | — | TEST | TYPE OF TEST | | Housing | Jacket | |
| Approx. dry weight (kgs) | 162 | — | | Hyd. test pres. (Mpa) | | 1.25 | — | |
| Approx. wet weight (kgs) | 372 | — | | Pneu. test pres. (Mpa) | | — | — | |
| Surface finish | Glass bead blasting | | | | | | | |
| Painting, packaging and shipping | JB/T4711-2003 | | | | | | | |
| Design flow rate (m ³ /h) | 102 | | | | | | | |

TECHNICAL REQUIREMENTS:

1. The Orientations of the nozzle and the pedestal shall be as shown in the top view.
2. The weld surface should be smooth and compact, no porosity, crack, scar and other defects.
3. Test pressure: full water pressure test 1.25 MPA 30 minutes, no leakage, no abnormal sound and visible deformation as qualified.
4. The content of chloride ion in water should not be more than 25mg/L in hydraulic pressure test, and the water in cylinder should be drained after the test.
5. The design service life refers to the service life of the vessel which is determined according to the uniform corrosion amount of the limited medium to the metal wall is not greater than the corrosion allowance under the normal smooth operation and the normal maintenance conditions.

NOZZLE SCHEDULE

| MARK | NOMINAL SIZE | PRESSURE RATED | | CONNECTION STD. | TYPE-FACE | SERVICE or NAME | QTY | REMARK |
|------|--------------|----------------|-------|--------------------|-----------|-----------------|-----|--------|
| | | PN | CLASS | | | | | |
| N1 | DN80 | 10 | / | HG / T20592 - 2009 | PL-RF | Inlet | 1 | / |
| N2 | DN80 | 10 | / | HG / T20592 - 2009 | PL-RF | Outlet | 1 | / |
| N3 | 1/4" | / | / | BSPP | F-BSP | Gauge | 1 | / |
| N4 | 1/2" | / | / | BSPP | F-BSP | Vent | 1 | / |
| N5 | 1/4" | / | / | BSPP | F-BSP | Diff. pres. | 2 | / |
| N6 | 1/2" | / | / | BSPP | F-BSP | Drain | 1 | / |
| N7 | 1" | / | / | BSPP | F-BSP | Drain | 1 | / |

| TYPE OF FILTER ELEMENT | NUMBER OF FILTER ELEMENT | SIZE OF FILTER ELEMENT | GASKET/O-RING MATERIAL | SURFACE FINISH |
|------------------------|--------------------------|------------------------|------------------------|---------------------|
| Bag | 3 pcs | #2 (Ø17"*32") | Silicone | Glass bead blasting |

Max. Flow: 85m³/h

