Waterflow Control

WFC-FH-P2-3

Bag Filter Housing

Contact Us:

(02) 9948 0699

info@waterflowcontrol.com.au

www.waterflowcontrol.com.au

37 / 317-321 Woodpark Rd, Smithfield NSW 2164

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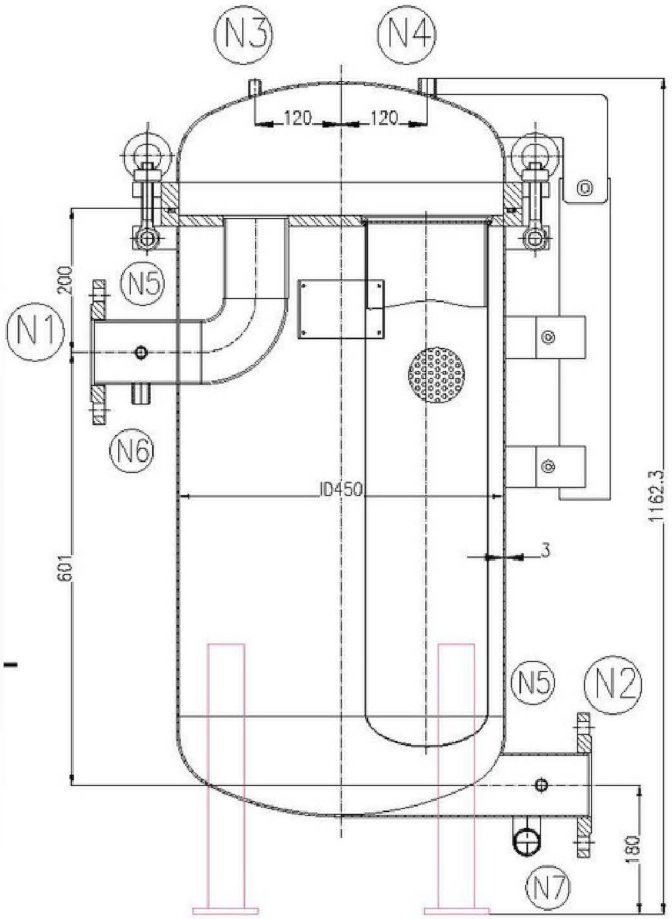
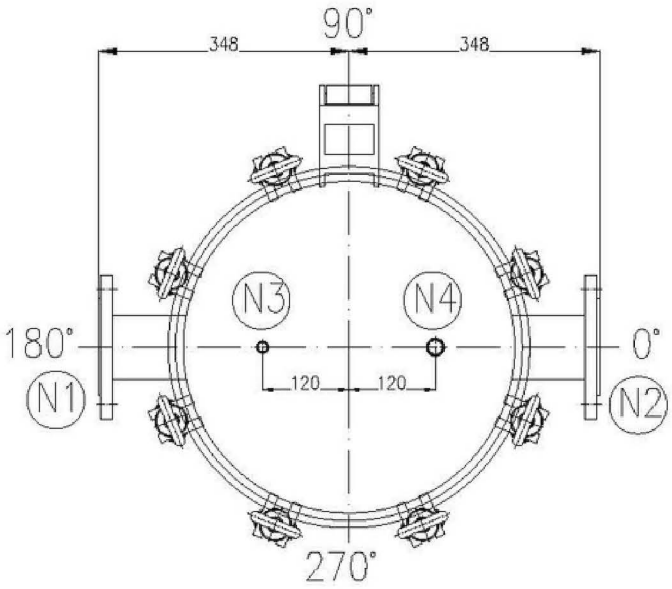
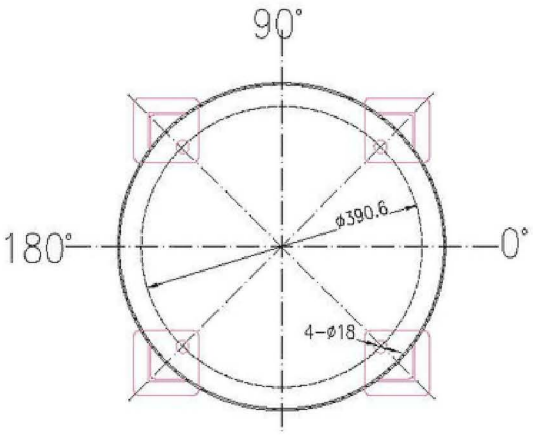
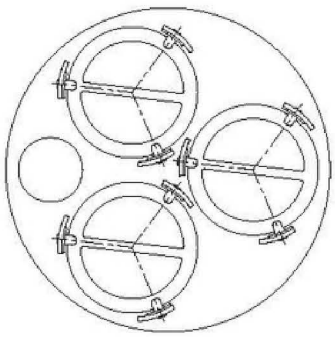
Comes with 4 PCS of DN80 flange to 80mm F-BSP adaptors and 4 PCS of DN80 flange to 100mm F-BSP adaptors.









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DESIGN DATA TABLE

DESIGN PARAMETERS			
PARAMETER NAME		HOUSING	JACKET
M.O.P (Mpa)		0.8	—
Design pres. (Mpa)		1.0	—
Max. operating temp (°C)		0~80	—
Design temperature		100	—
Medium		/	—
Medium properties		/	—
Medium density (kg/m³)		/	—
Viscosity (cps)		/	—
Material of main pressure components		SS304	—
Corrosion allowance (mm)		0	—
Joint efficiency	Class A	0.85	—
	Class B	0.85	—
Volume (L)		/	
Filter accuracy (um)		/	
Filter area (m²)		/	
Recommended service life		10	
Approx. dry weight (kgs)		162	
Approx. wet weight (kgs)		372	
Surface finish		Glass bead blasting	
Painting, packaging and shipping		JB/T4711-2003	
Design flow rate (m³/h)		102	

SUPERVISE RULE		—
DESIGN CODE		GB / T 150.1~150.4 - 2011
MANUFACTURING		—
MANUFACTURING AND INSPECTION REQUIREMENTS		
Steel plate / Standard for main pressurised components		S316/GB/T 24511-2009
Materials / Standards for main forgings		S31SU6/NB/T 47010-2000
Materials / Standards for main opening take-over		S316/GB/T 14976-2012
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.	
SOLDERING	WELDING BETWEEN XX & XX	WELDING ROD NUMBER
	Between carbon steel	—
	Between SS - 304	A102
	Between SS-316L	A132
	Between CS & SS	—

NON-DESTRUCTIVE TESTING	Type of welded joint	Detection rate		Testing STD.	Qual. Level
	A, B	Housing	—	NB/T47013.2-2015	—
	A, B	Jacket	—	NB/T47013.2-2015	—

TEST	TYPE OF TEST	Housing	Jacket
	Hyd, test pres. (Mpa)	1.25	—
	Pneu. test pres. (Mpa)	—	—

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				

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