

EQP CODE CF-SBF02-SS316L-CF1-2" BSP

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Size (inch)	50.4	47.4	43.7	24.4	32.9	13.8	28.7	11.4	7.87	7.68	7.09	7.0	5.51	0.98
Size (mm)	1280	1205	1110	620	835	350	730	290	200	195	180	177.5	140	25

DESIGN DATA SHEET

DESIGN, MANUFACTURING INSPECTION AND ACCEPTANCE SPECIFICATIONS AND STANDARDS		1. ASME SEC.VIII-1:2023 2. PED 2014/68/EU	
PED Category	II	PED Module	A2
Design Pressure (Bar)	10	Working Pressure (Bar)	8
Design Temp. (°C)	-25-160	Working Temp. (°C)	60
Volume (L)	27	Flow Rate (m³/h)	20
Fluid/Group	Water	Fluid Toxicity	/
Fluid Density (kg/m³)	1000	Fluid Expolison Hazard	/
Corrosion Allowance (mm)	2	Joint Effcy	1.0
Outside Treat't	Polish#300	Inside Treat't	/
Hydoro'c Test (Bar)	15.6	Pneun'c Test (Bar)	/
Impact Test	/	Heat Treat't	No
WPOQ	EN ISO 15614-1, EN ISO 9606-1, EN 10204 3.1/3.2		
Filter Element	#2	QTY PCS	1
Net Mass (kg)	24.9	Gross Mass (kg)	34.9
Remarks	CTN Size(mm): 1400*400*400		

NON-DESTRUCTIVE TESTING

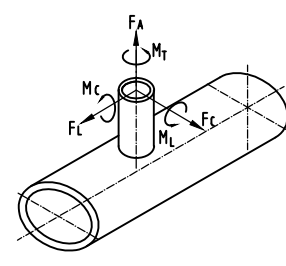
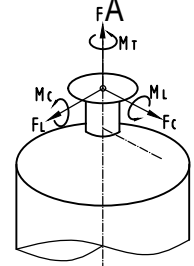
Types of Weld Joints	Method-Detection Rate	Test Ratio	Qualification Grade
Vessel	A	RT	Full
	B	RT	Full
	C, D	MT/PT	Full
ASME VIII-1 UW-51			
ASME VIII-1 Mandatory Appendix 6/8			

NOZZLE DATA

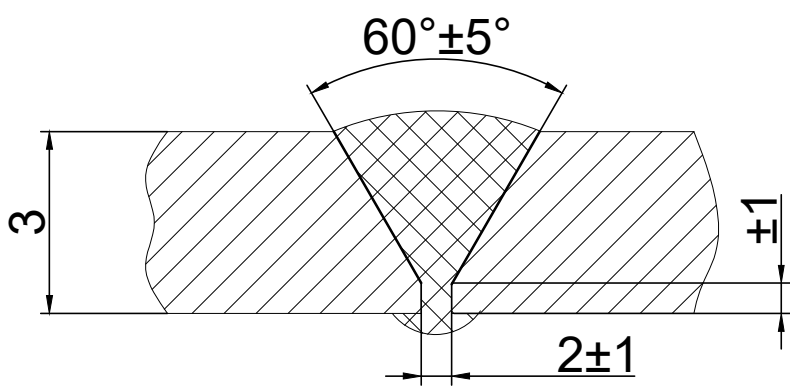
NO.	NOM. Size (DN)	NOM. P. (PN)	Connection Standard	Flange Type	Face Type	Usage	Extended Ht. (mm)	Note
N1	2"	16	ISO 7-1		Female Thread	Inlet	80	
N2	2"	16	ISO 7-1		Female Thread	Outlet	80	
N3	1/4"		AISI/ASME B1.20.1		Female Thread	Vent		
N4	1/2"		AISI/ASME B1.20.1		Female Thread	Drain	30	

NOZZLE LOADING TABLE

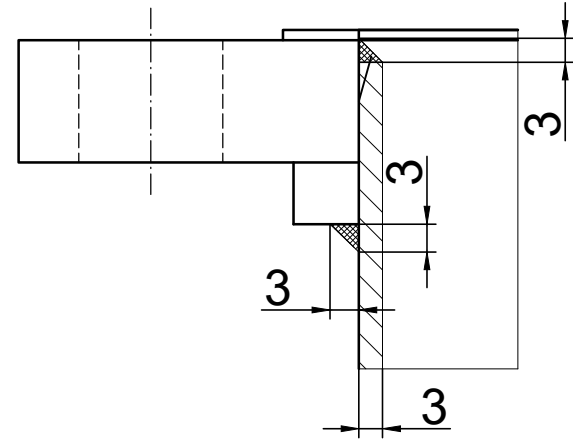
Nozzle	DN	Force (N)			Forcement (N·m)		
		F _L	F _C	F _A	M _F	M _L	M _C
N1	2"	1200	900	1200	180	156	120
N2	2"	1200	900	1200	180	156	120



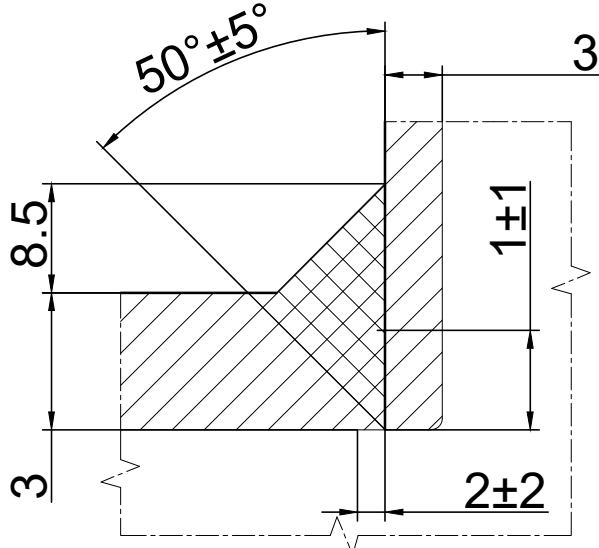
A, B class welded joint joint diagram
Not to scale



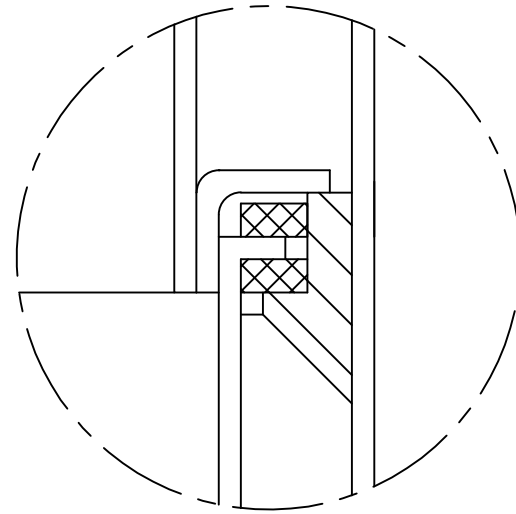
Joints welded with flanges
Nozzle to Flange



D type radial welded joint diagram
Not to scale



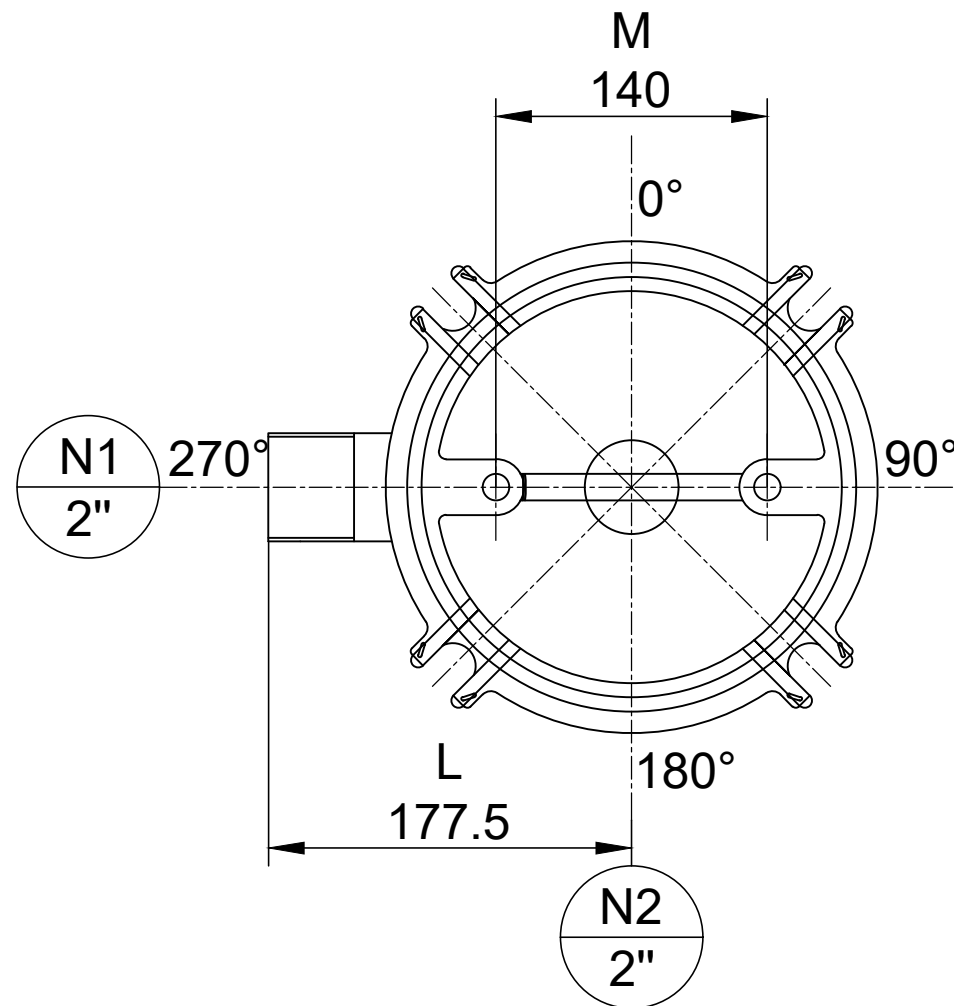
I
Not to scale



Technical Requirement:

- Dimensions on drawings are labeled by metric.
- The vessel is welded per qualified WPS, and all butt weld joints are required full-penetration.
- All heights of fillet weldings unmarked are the wall thickness of the thinner of the two weldments.
- Tolerance for formed shell complys with UG-80 and for formed head complys with UG-81.
- In addition to the special equipment, the manufacturing inspection dimension tolerance is carried out according to ISO 2768-1 requirements.
- Bearing and nozzle orientation according to the figure.
- Nozzle exposed inside edges shall be rounded 2 mm at least.
- Safety attachments are protected by UG-140 (b) by the user through the combination of the system design and the release device.
- Controlling chloride ion content can be not more than 25mg/L in hydrostatic test. The final pressure test shall be held for a minimum of 30 minute, after completion of the hydrostatic test, the vessel shall be drained, dried as quickly as practicable.
- The outer surface of the stainless steel is subjected to shot blasting treatment.
- The suitability of ASME material and the screw need Particular Material Appraisals (PMA) for pressure parts at the design status.
- The material certificate shall take the form of a 3.1/3.2 certificate in accordance with EN10204 for the pressure parts.
- The welder shall be qualified by notified body as per ISO 9606-1/ISO 14732.

TOP VIEW



-13		Retaining Pin	4	1.4404	0.1	0.4	
-12	DIN 444-2017	Eyebolt M20x100	4	1.4404	0.32	1.28	
-11	DIN 3771-1993	O-ring I.D 120x5.3	1	NBR/EPDM		0.02	
-10	EN 7089-2000	Washer	4	1.4404	0.005	0.02	
-9	DIN 582-2024	Eyenuit M20	4	1.4404	0.3	1.2	
-8	DIN 28013-2012	EHB Head O.D 195x2 H=70	1	1.4404		2.05	
-7		Restrainer Basket L=730	1	1.4404		2.5	
-6	EN 10216-2-2002	Shell O.D 195x2 H=835	1	1.4404		8.03	
-5		Leg L=620	1	1.4404		1.35	
-4		Retainer Ring	1	1.4404		0.1	
-3		Nameplate	1	1.4404		0.06	
-2	ISO 288-1-2000	Seamless Tube O.D 60.3x3 L=80	2	1.4404	0.34	0.68	
-1		Covre and Base	1	1.4404		7.25	

NO.	PART DWG NO. STAND. NO.	DESIGNATION	QTY	MATERIAL	SINGLE	TOTAL	NOTE
					MASS (KG)		

REV. NO.	MARK	NUMBERS	DESIGN	CHECK	APPROVAL	DATE
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CleverFilter

CUSTOMER INFO.		DESIGN	ZW.C	2025/05/12	ASSEMBLY DIAGRAM Single Bag Filter Housing 2" In/Out Connection SS-316L NBR/EPDM O rings	CF-SBF02-SS316L-CF1-2" BSP			
CUS. CODE	CF	CHECK	XZ.Z	2025/05/12		DRW NO.			
P.O. NO./INQ NO.		STAND	L.Z	2025/05/12		MAP		A1	SCALE 1:1
QTY	1	REVIEW	L.Z	2025/05/12		REV. NO.		A1	DATE 2025/05/12
DATE	2025/05/12	APPROVAL	L.Z	2025/05/12		PAGES		1	OF 1