

The CH housings are constructed from 316 L or 304 stainless steel and manufactured in accordance to design and construction code EN13445 Group 3. They have a maximum pressure rating design of 10 bar g and can be used in temperatures up to 90 °C.

The CH housings are fully CE marked in accordance with the European Pressure Equipment Directive (PED) and are available in a variety of sizes to accommodate from 3 to 116 cartridges (from 3 EQSL to 464 EQSL).

Supplied as standard with all internal parts necessary for operation using Double Open Ended (DOE) cartridges, they can be readily converted to take Single Open Ended (SOE) cartridges by using alternative internal components that can be ordered separately.

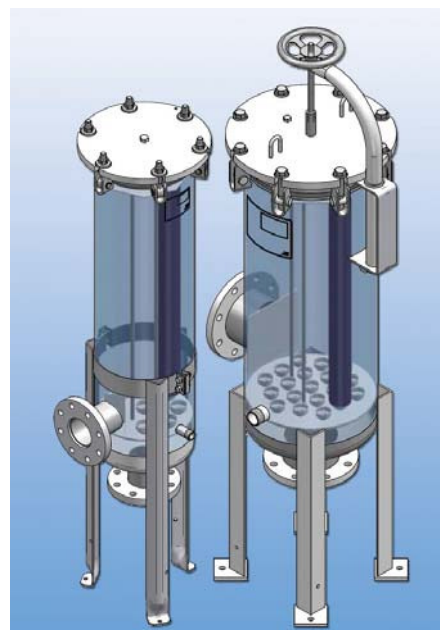
Pressure Equipment Directive 97/23/CE

CH vessels are built to PED 97/23/CE Category 3.3 “Sound Engineering Practice” as standard. The vessel designs have been developed so that they can be manufactured for the highest demanding applications - Group 1 (Hazardous Gas) - upon request from existing and known production documentation. All dimensions remain as shown here.

ATEX Directive 94/9/CE

CH housings are approved for use in ATEX condition II-2-G/D-T5.

The user of these housings must ensure that they are used in accordance with the requirements of these PED and ATEX directives at all times. Please consult your local 3M Purification representative for any other classification, other details for PED coded applications or further information.



Features & Benefits

316L and 304 stainless steel construction

- Provides excellent corrosion protection for rugged, long-lasting service.

Optimum quality standards at competitive costs

- Ensure the most appropriate housing is available at the right price.

Swing bolt design

- Optimizes cartridge change-out.

Applications

Industrial

Chemical

Commercial

Food & Beverage

Table 1 : Standard Housing Specifications

Housing Type Specifications	03 CH / 04 CH / 05 CH	08 CH / 12 CH / 19 CH / 22 CH / 27 CH / 30 CH / 40 CH / 55 CH / 80 CH / 116 CH
Housing Material (in contact)	316L (1.4404) or 304 (1.4306) Stainless Steel	316L (1.4404) or 304 (1.4306) Stainless Steel
Surface Finish	Pickle passivated or Glass bead blasted	Pickle passivated or Glass bead blasted
Closure	Bolted	Bolted
Housing Orientation	Vertical	Vertical
Standard Gasket Material	Nitrile (others on request)	Nitrile (others on request)
Cartridges Height	1, 2, 3 and 4 high	3 and 4 high
Number of Cartridges (EQSL)	from 3 to 20	from 24 to 464
Connection Sizes	ISO flat faced flange	ISO flat faced flange
Vent Connection	see table 2	see table 2 and 4
Drain Connection	see table 2	see table 2 and 4
Max. Operating Pressure	10 bar g	10 bar g
Max. Operating Temperature	90 °C	90 °C
PED 97/23/CE	Article 3.3	Article 3.3
ATEX 94/9/CE	II-2-G/D-T5	II-2-G/D-T5
This table is intended as a guide.		

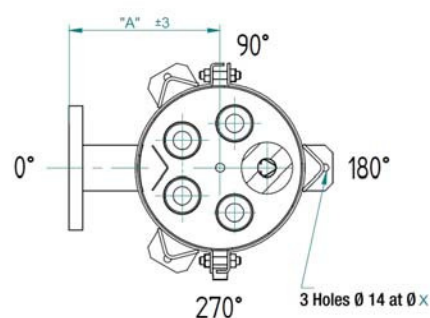
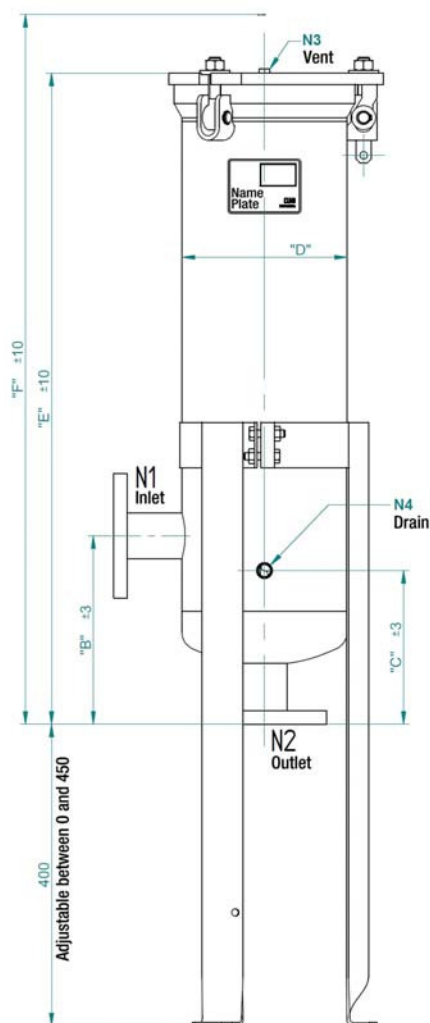


Table 2 : Other Specifications Housings 03 CH to 12 CH

Housing Type	Inlet/Outlet	Vent	Drain	Bolts	Volume	Weight
03 CHB 1	DN 50	G ¼" B	R ½"	3 x M16	18 L	30 Kg
03 CHB 2	DN 50	G ¼" B	R ½"	3 x M16	27 L	35 Kg
03 CHB 3	DN 50	G ¼" B	R ½"	3 x M16	36 L	40 Kg
03 CHB 4	DN 50	G ¼" B	R ½"	3 x M16	45 L	45 Kg
04 CHB 1	DN 50	G ¼" B	R ½"	3 x M16	18 L	30 Kg
04 CHB 2	DN 50	G ¼" B	R ½"	3 x M16	27 L	35 Kg
04 CHB 3	DN 50	G ¼" B	R ½"	3 x M16	36 L	40 Kg
04 CHB 4	DN 50	G ¼" B	R ½"	3 x M16	45 L	45 Kg
05 CHB 1	DN 50	G ¼" B	R ½"	3 x M16	18 L	30 Kg
05 CHB 2	DN 50	G ¼" B	R ½"	3 x M16	27 L	35 Kg
05 CHB 3	DN 50	G ¼" B	R ½"	3 x M16	36 L	40 Kg
05 CHB 4	DN 50	G ¼" B	R ½"	3 x M16	45 L	45 Kg
08 CHB 3	DN 80	G ½" B	R ¾"	6 x M16	57 L	65 Kg
08 CHB 4	DN 80	G ½" B	R ¾"	6 x M16	70 L	70 Kg
12 CHB 3	DN 100	G ½" B	R ¾"	8 x M16	81 L	90 Kg
12 CHB 4	DN 100	G ½" B	R ¾"	8 x M16	101 L	100 Kg

Table 3 : Dimensions Housings 03 CH to 12 CH (in mm)

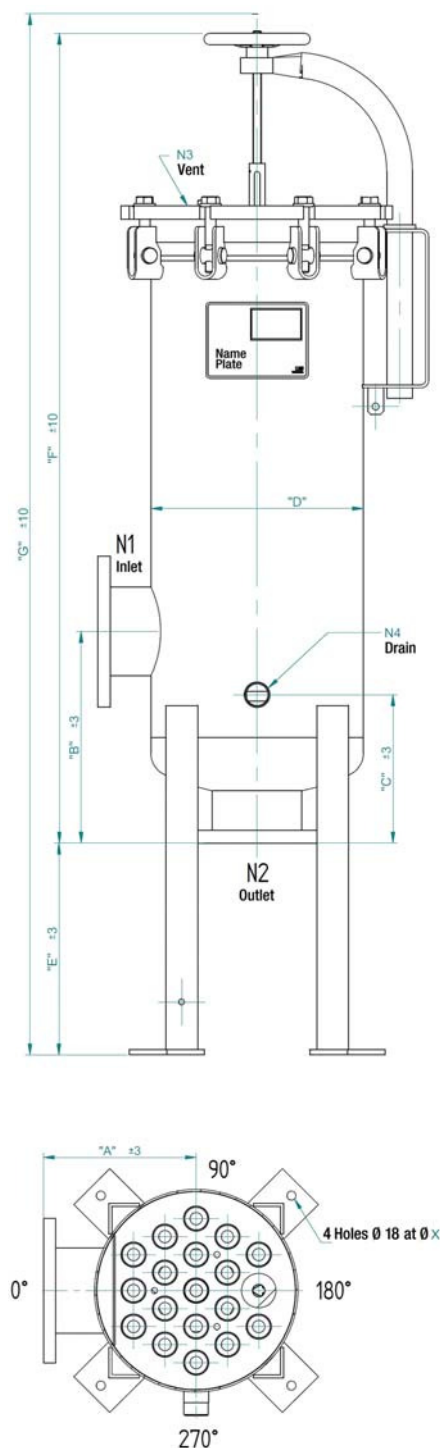
Housing Type	A Vent to Inlet	B Inlet to Outlet	C Drain to Outlet	D Diameter	E Top to Outlet	F distance for change out	X
03 CHB 1	200	250	200	219	615	900	278
03 CHB 2	200	250	200	219	865	1400	278
03 CHB 3	200	250	200	219	1115	1900	278
03 CHB 4	200	250	200	219	1365	2400	278
04 CHB 1	200	250	200	219	615	900	278
04 CHB 2	200	250	200	219	865	1400	278
04 CHB 3	200	250	200	219	1115	1900	278
04 CHB 4	200	250	200	219	1365	2400	278
05 CHB 1	200	250	200	219	615	900	278
05 CHB 2	200	250	200	219	865	1400	278
05 CHB 3	200	250	200	219	1115	1900	278
05 CHB 4	200	250	200	219	1365	2400	278
08 CHB 3	250	300	250	273	1150	1900	332
08 CHB 4	250	300	250	273	1400	2400	332
12 CHB 3	300	350	290	324	1200	2000	383
12 CHB 4	300	350	290	324	1450	2500	383

Table 4 : Other Specifications Housings 19 CH to 116 CH

Housing Type	Inlet/Outlet	Vent	Drain	Bolts	Volume	Weight
19 CHB 3	DN 150	Rp ½"	R 1" ½	8 x M20	132 L	156 Kg
19 CHB 4	DN 150	Rp ½"	R 1" ½	8 x M20	162 L	166 Kg
22 CHB 3	DN 150	Rp ½"	R 1" ½	8 x M20	172 L	176 Kg
22 CHB 4	DN 150	Rp ½"	R 1" ½	8 x M20	210 L	188 Kg
27 CHB 3	DN 150	Rp ½"	R 1" ½	8 x M20	172 L	176 Kg
27 CHB 4	DN 150	Rp ½"	R 1" ½	8 x M20	210 L	188 Kg
30 CHB 3	DN 200	Rp ½"	R 1" ½	10 x M20	216 L	233 Kg
30 CHB 4	DN 200	Rp ½"	R 1" ½	10 x M20	263 L	249 Kg
40 CHB 3	DN 200	Rp ¾"	R 2"	10 x M24	316 L	368 Kg
40 CHB 4	DN 200	Rp ¾"	R 2"	10 x M24	384 L	387 Kg
55 CHB 3	DN 250	Rp ¾"	R 2"	12 x M27	441 L	500 Kg
55 CHB 4	DN 250	Rp ¾"	R 2"	12 x M27	534 L	527 Kg
80 CHB 3	DN 250	Rp 1"	R 2"	12 x M24	695 L	540 Kg
80 CHB 4	DN 250	Rp 1"	R 2"	12 x M24	818 L	567 Kg
116 CHB 3	DN 300	Rp 1"	R 2"	16 x M24	836 L	775 Kg
116 CHB 4	DN 300	Rp 1"	R 2"	16 x M24	1009 L	805 Kg

Table 5 : Dimensions Housings 19 CH to 116 CH (in mm)

Housing Type	A Middle to Inlet	B Inlet to Outlet	C Drain to Outlet	D Diameter	E Outlet to Bottom	F Top to Outlet	G distance for change out	X
19 CHB 3	300	400	280	400	400	1530	2340	530
19 CHB 4	300	400	280	400	400	1780	2800	530
22 CHB 3	350	450	330	450	400	1570	2330	580
22 CHB 4	350	450	330	450	400	1820	2840	580
27 CHB 3	350	450	330	450	400	1570	2330	580
27 CHB 4	350	450	330	450	400	1820	2840	580
30 CHB 3	400	470	330	500	400	1580	2340	630
30 CHB 4	400	470	330	500	400	1830	2850	630
40 CHB 3	450	550	390	600	450	1760	2520	770
40 CHB 4	450	550	390	600	450	2010	3030	770
55 CHB 3	550	600	440	700	450	1800	2560	870
55 CHB 4	550	600	440	700	450	2050	3070	870
80 CHB 3	550	600	440	800	450	1810	2570	970
80 CHB 4	550	600	440	800	450	2060	3080	970
116 CHB 3	650	700	495	950	550	1860	2620	1120
116 CHB 4	650	700	495	950	550	2110	3130	1120



Ordering Guide CH Range

Number of Cartridges	Housing Type	Closure Type	Cartridge Height	Housing Orientation	Material of Construction	Gasket	Surface Finish	Connection	Outlet Orientation
03 04 05	CH	B = Bolted	1 2 3 4	V = Vertical	4 = 304 St. St. 6 = 316L St. St.	NB = Nitrile	F0 = Pickle Passivated or Glass Bead Blasted	BP = ISO Flat Faced Flange	DN = Down- wards
08 12 19 22 27 30 40 55 80 116	CH	B = Bolted	3 4	V = Vertical	4 = 304 St. St. 6 = 316L St. St.	NB = Nitrile	F0 = Pickle Passivated or Glass Bead Blasted	BP = ISO Flat Faced Flange	DN = Down- wards

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