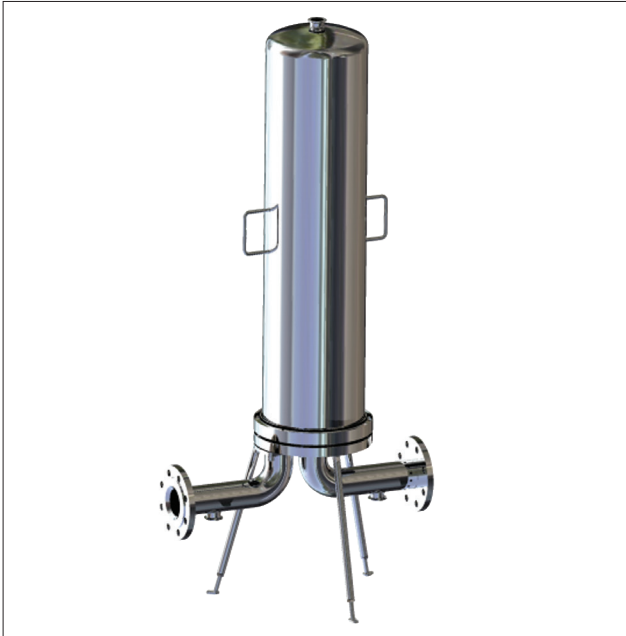


# VSH Multi Filter Housings

Beverage



- Multi-element sanitary liquid housing
- Designed specifically for the food and beverage industry
- High quality crevice free construction
- Available in 3 to 30 round versions
- Steam sterilizable

## Specification

### Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA

### Surface Finish

- Internal: Mechanically Polished Ra <0.8 μm
- External: Mechanically Polished

### Steam Sterilization

Refer to Parker domnick hunter for individual housing parameters.

### Design Code

Housings designed in accordance with the European Council Pressure Equipment Directive (PED) 97/23/EC and the UK statutory pressure equipment regulations (PER) 1999 N° 2001.

### Design Basis

ASME VIII Division 1

### Custom Design

Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

Note: For 12, 18, 24 and 30 Round options, please contact Parker domnick hunter for detailed technical drawings.

Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	031	032	033	034
Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	6.8 barg (99 psig)	3.9 barg (57 psig)	2.8 barg (41 psig)	2.1 barg (30.5 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Volume (litres)			7.3	12.6	17.8	23.1
Fluid Group	State	Temperature	051	052	053	054
Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	4.5 barg (65 psig)	2.4 barg (35 psig)	1.7 barg (25 psig)	1.3 barg (19 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	9.9 barg (144 psig)	6.8 barg (99 psig)	5.2 barg (75 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	6.8 barg (99 psig)	5.2 barg (75 psig)
Volume (litres)			11.0	20.0	29.1	38.2
Fluid Group	State	Temperature	081	082	083	084
Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	2.3 barg (33 psig)	1.4 barg (20 psig)	1 barg (14.5 psig)	0.7 barg (10 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)	7.5 barg (109 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	9.4 barg (136 psig)	5.6 barg (81 psig)	4.0 barg (58 psig)	3.1 barg (45 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.5 barg (109 psig)	5.6 barg (81 psig)	4.0 barg (58 psig)	3.1 barg (45 psig)
Volume (litres)			21.3	35.3	49.7	63.9
PED Conformity Assessment Category			CAT I	CAT I	CAT I	CAT I

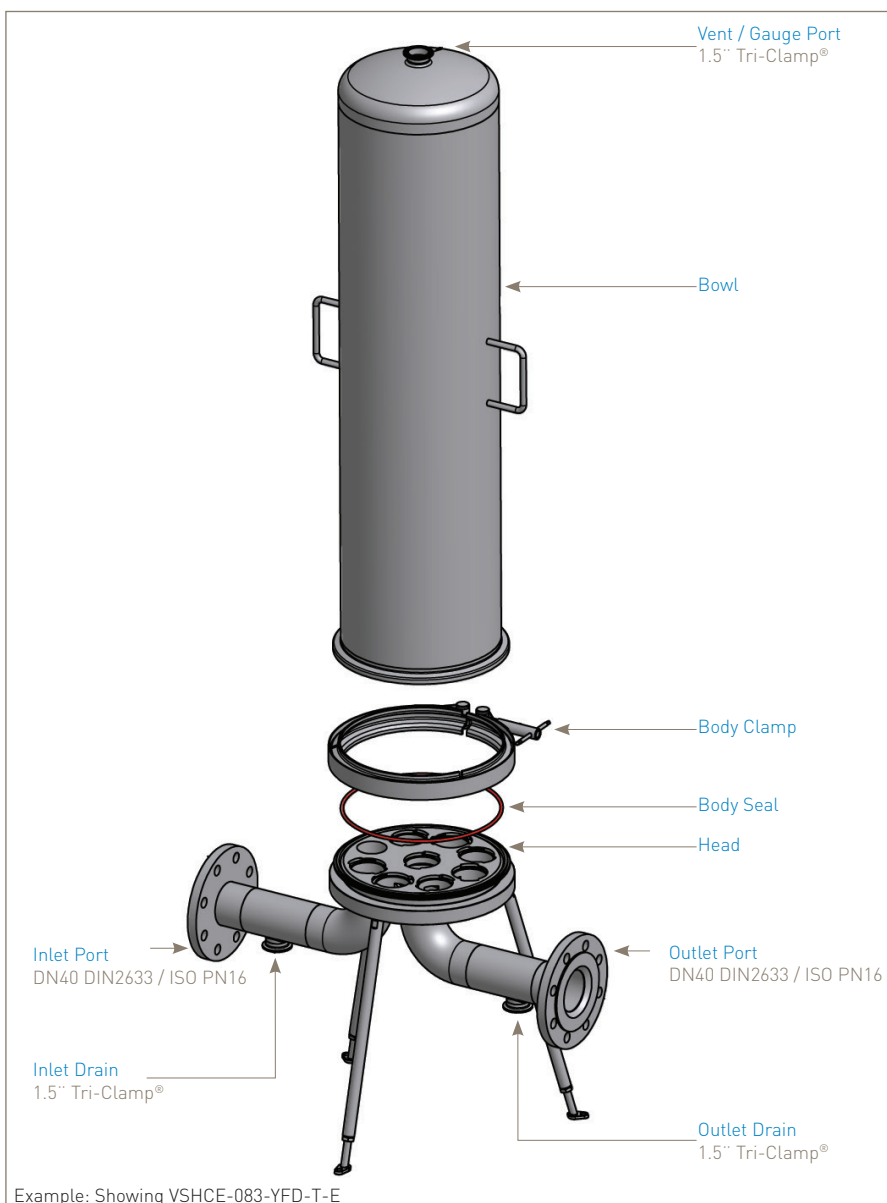
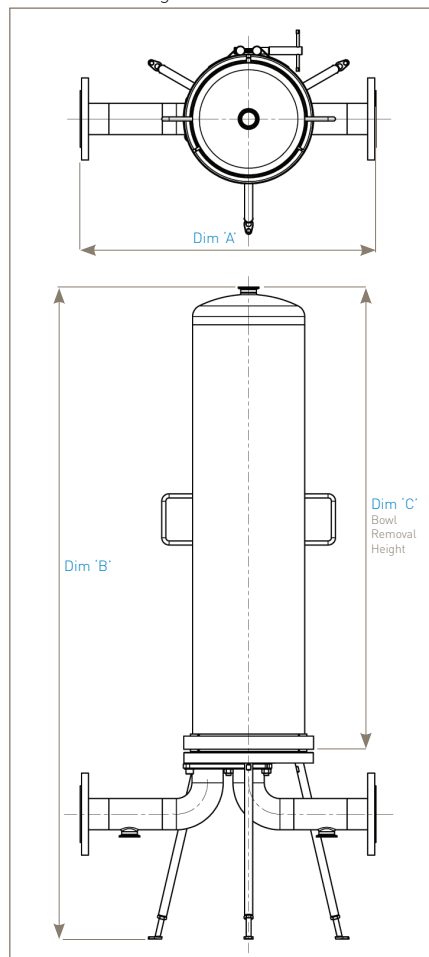
# VSH Multi Filter Housings Beverage

## Physical Characteristics

Type	Dimensions (mm)			Typical Weight
	'A'	'B'	'C'	
10" (250 mm)	606	840	290	27.0
20" (500 mm)	606	1060	540	30.0
30" (750 mm)	606	1310	790	33.0
40" (1000 mm)	606	1560	1040	36.0

Dimensions shown are for an 8 Round VSH, DN40 DIN2633 inlet / outlet connections. For the full range of dimensions and weights, please contact Parker donnick hunter.

Note: All housings are full vacuum rated.



## Ordering Information

VSH		-		-		-		-	
Code   Vessel Class	Code   N° of Cartridges	Code   Length (Nominal)	Code   Connection Size	Code   Connection Type	Code   Connection Standard	Code   Vent / Drain Conn. Type	Code   Seal		
CE Standard	03 3 05 5 08 8 12 12 18 18 24 24 30 30	1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm) 4 40" (1000 mm)	B 1" Y 1.5" C 2" X 2.5" D 3" E 4"	D* DIN Male F* Flanged M SMS Male R RJT Male T Tri-Clamp® W Butt Weld	A NPT / ANSI B British Standard D DIN I ISO	T Tri-Clamp®	E EPDM S Silicone V Viton® / FKM		

Note: 3, 5 and 8 Round housings available with 10", 20", 30" and 40" bowls  
12, 18, 24 and 30 Round housings available with 20" and 30" bowls only

N° of Cartridges	Connection Size Availability				
	1.5"	2"	2.5"	3"	4"
03	✓				
05	✓	✓			
08	✓	✓	✓		
12				✓	✓
18				✓	✓
24				✓	✓
30				✓	✓

\*Check flange size code to ensure correct item is supplied.

Tri-Clamp® is a trademark of Alfa-Laval, Inc.

Viton® is a registered trademark of DuPont Performance Elastomers L.L.C.

Note: For accessories, i.e. gauges, please contact Parker donnick hunter - Process Division for full availability.

PROSEP FILTER SYSTEMS LTD  
Unit G19  
River Bank Way  
Lowfields Business Park  
Elland  
West Yorkshire  
HX5 9DN

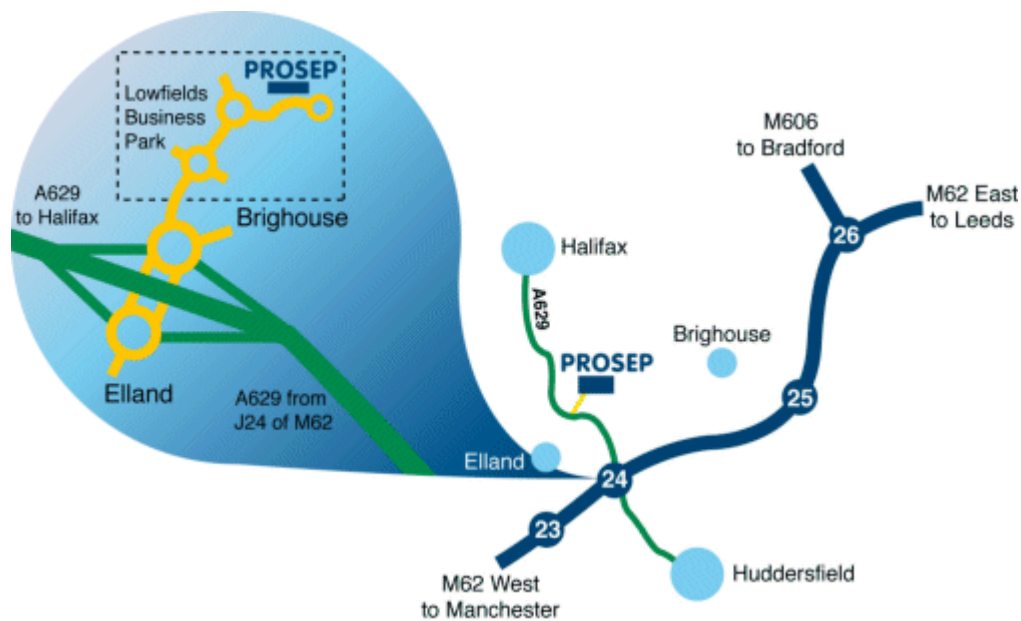
**Tel: 01422 377367**

**Fax: 01422 377369**

Email: [enquiries@prosep.co.uk](mailto:enquiries@prosep.co.uk)

[www.prosep.co.uk](http://www.prosep.co.uk)

**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)