aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Filtration Housings

A guide to products and services

Parker

domnick hunter

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Precision Manufacturing

Experience and qualifications provide a flexible approach

Parker domnick hunter, Process Division manufacture stainless and carbon steel pressure vessels and filtration systems that are designed to meet International industry standards and specific customer application requirements.

A combination of highly skilled employees, dedicated manufacturing facility and 35 years experience of supplying process industries around the world Parker domnick hunter provide solutions that match your requirements for performance, quality and value.

Our fabrication facility manufacture a standard range of stainless steel housings to support our range of filters, which can be modified and adapted to meet any process requirements.
Our strength is in providing a range of products that meet industry standards with a flexibility to meet your own process requirements.

Manufacturing Capability

- Pressure vessels from 0.1 to 10,000 litres
- Capacity: 5,000+ per year
- Automatic and hand welding techniques
- Assembly and hydro test facility
- Helium leak test, N.D.T., P.M.I. and stress relief
- Welding capability
  - manual / mechanical
  - MIG, MAG, TIG, MMA
  - micro plasma seam
  - keyhole plasma

Testing

- Helium leak test
- Surface finish
- Hydrostatic testing
- Pneumatic testing
- Ultrasonic testing
- Radiographic (x-ray)
- Swab testing
- Magnetic particle flow detection
- Riboflow testing
- Earth continuity testing

Manufacturing Best Practice

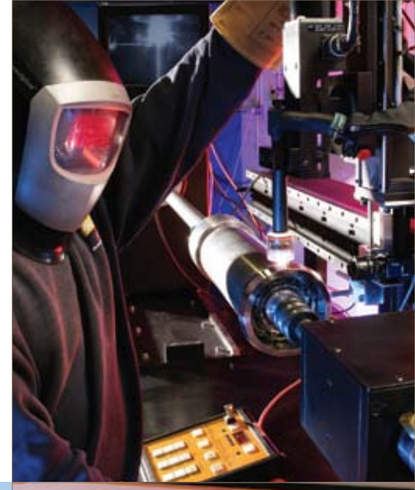
- ISO9001:2000
- ISO13485:2003
- ISO14001:2004

Vessels Built to Industry Standards

- PED (CE)
- EN / B445
- EN / 286
- BN / 1210
- ATEX
- ASME U
- ASME BPE

Stamp of Approval

- Certificate of Authorisation (U Stamp)
- National Board Certificate of Authorisation
- American Society of Mechanical Engineers



Project Management

Engineering your success

Parker domnick hunter, Process Division brings a wealth of experience in working on engineering projects around the world in partnership with some of the leading engineering, consultancy and project management groups. A highly trained workforce have the skills to match your exact requirements to the highest possible standards.

As part of the $12 Billion turnover, Parker Hannifin Corporation, Parker domnick hunter can provide:

- Project management
- Process system design
- System fabrication
- Global support
- Operator training
- Dedicated technical support team
- Quality management systems

Our experience and expertise has seen us design and fabricate major systems for industries including:

- Pharmaceutical
- Chemical
- Food and beverage
- Industrial fermentation

A combination of hands on experience, design and manufacturing excellence have gained Parker domnick hunter a reputation for supplying high quality competitive filtration systems.

Leading Edge Design

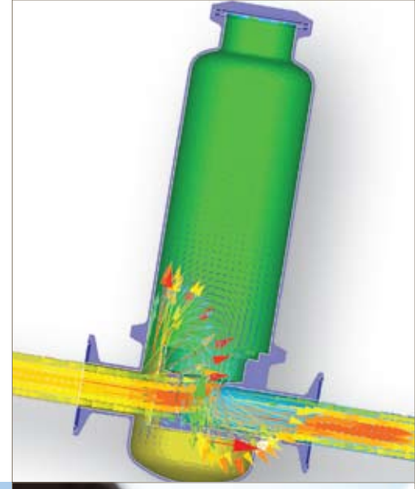
Parker domnick hunter's, Sustaining Engineering Group are dedicated to providing a complete design service for coded pressure vessels, high integrity piping and all associated controls and instrumentation for project or contract work.

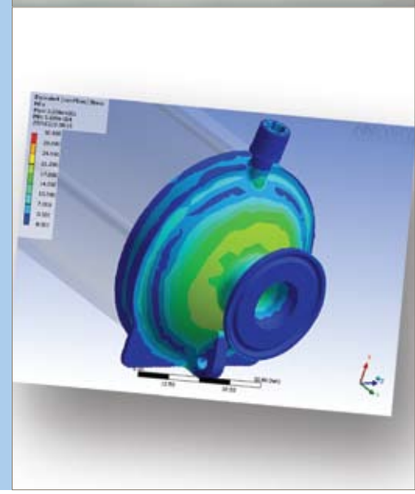
Using the latest in 3D CAD technology, Parker domnick hunter have the ability to support each project with:

- Visualisation - Photo Rendering
- Rapid Prototyping
- FEA - Finite Element Analysis
- CFD - Computational Flow Dynamics

Project Partnership

During the whole qualification phase of a new project, Parker domnick hunter provides formal validation plans, continuous support and assistance with all stages of qualification from factory acceptance through to site installation.





Dedicated Filter Range

Choice and flexibility to suit your application

Parker domnick hunter, Process Division manufacture a range of microfiltration cartridges for liquid and gas applications that utilise the latest production techniques, combining the most suitable membranes and filtration media with the latest easy to use formats.

All of Parker domnick hunter's filters meet strict validation guidelines providing a high degree of assurance that they will consistently achieve a high level of performance in a given application and meet the needs of the industry that they have been specifically designed for.

- Wide choice of filtration media and filter formats
- Technical and validation support
- Industry and application specific filters
- Fully retrofitable range of products
- Manufactured in state-of-the-art facilities

Scaleability provides flexibility

The ability to scale up from small area discs to final manufacturing with minimal revalidation is paramount.

Parker domnick hunter provides a wide range of filter formats to ensure that the transition from pilot scale through to full production is as smooth as possible.

Single use systems

Disposable systems can eliminate cleaning validation, reduce capital costs, minimise health & safety risks and lower the chance of product contamination. Single use systems also provide a more convenient way of processing a product.

Close working relationships

Parker domnick hunter have partnered engineering companies on large scale projects around the world that require filtration expertise and dedicated technical support.

Committed to process improvement

Direct access to our teams from new product development, laboratory services, technical support, manufacturing and quality provide the right solution delivered to you on time, every time.

Our goal is to continually improve your productivity, reduce your process costs and ensure the safety of your final product. Our Technical Support Group (TSG) made up from a multidisciplinary team of scientists and engineers working directly with your team to define your process needs and produce optimised solutions.

Single Cartridge Housings

5¨ to 40¨ cartridges

HSA - Sanitary air / gas housing
High specification air housing

HBA - Industrial air / gas housing
Specifically designed for the food & beverage industry

HSV - Vent housing
Flow efficient, self supportive sanitary housing

HSL - Sanitary liquid housing
Food, beverage & pharmaceutical finishes available

HSI - In-line sanitary liquid housing
Food, beverage & pharmaceutical finishes available

HIL - Industrial air / liquid housing
Ideal for water treatment & chemical applications

HSA Filter Housing

- sanitary air / gas

- Flow efficient sanitary range of air / gas housings
- Designed specifically for the food and beverage industry
- Sanitary vent, tri-clamp and drain connections as standard
- Sanitary tri-clamp body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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.

PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

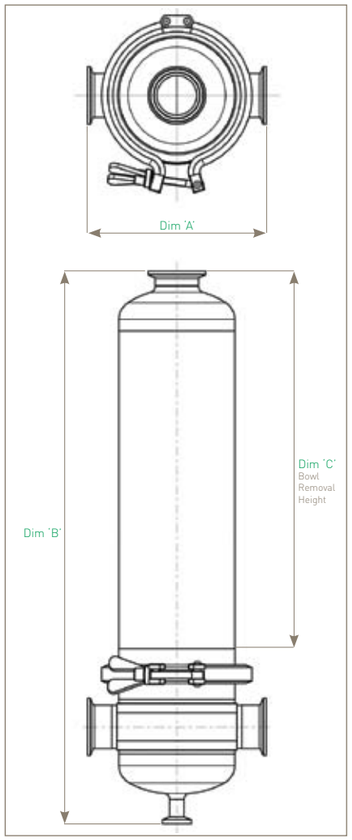
ASME VIII Division 1.

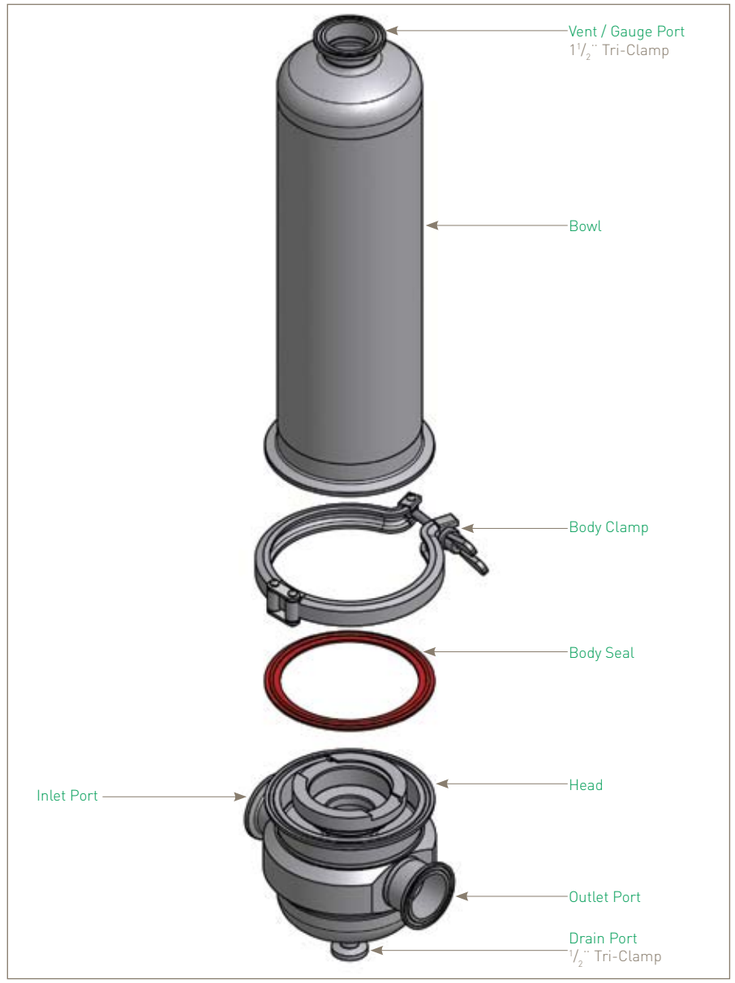
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	01K	011	012
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)
PED Conformity Assessment Category			SEP	SEP	SEP
Volume (litres)			1.9	3.1	5.0

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
5" (125 mm)	157	337	194	1.0	3.5	5.1
10" (250 mm)	157	487	313	1.6	3.5	5.7
20" (500 mm)	157	737	561	2.6	3.5	6.7

Dimensions are based on illustration shown (HSACE011YT-C-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSA [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm)	Y 1 1/2" (38.1 mm)	T Tri-Clamp	C 226	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HSA⊕ datasheet for more information.

HSA⊕ Filter Housing

- sanitary air / gas

- Sanitary range of air / gas housing
- Available in 4 different housing classes: Atex, CE, High Pressure and Oxygen Service
- Both beverage and pharmaceutical surface finishes available
- A choice of easy to use sanitary vent and drain options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	7.20 barg (104.42 psig)	5.60 barg (81.22 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.9	3.1	5.0	6.9	8.8

CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	7.20 barg (104.42 psig)	5.60 barg (81.22 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.9	3.1	5.0	6.9	8.8

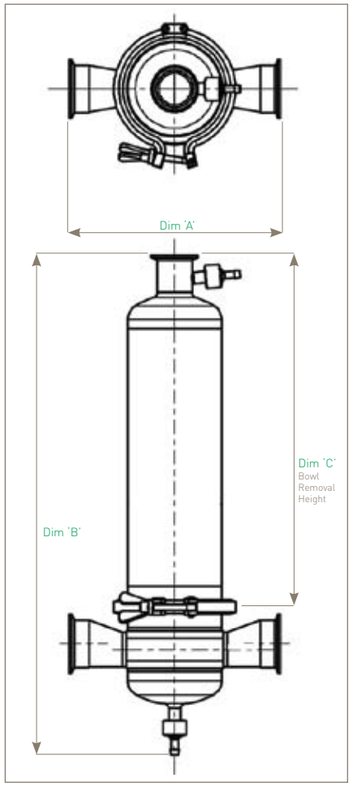
High Pressure Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.9	3.1	5.0	6.9	8.8

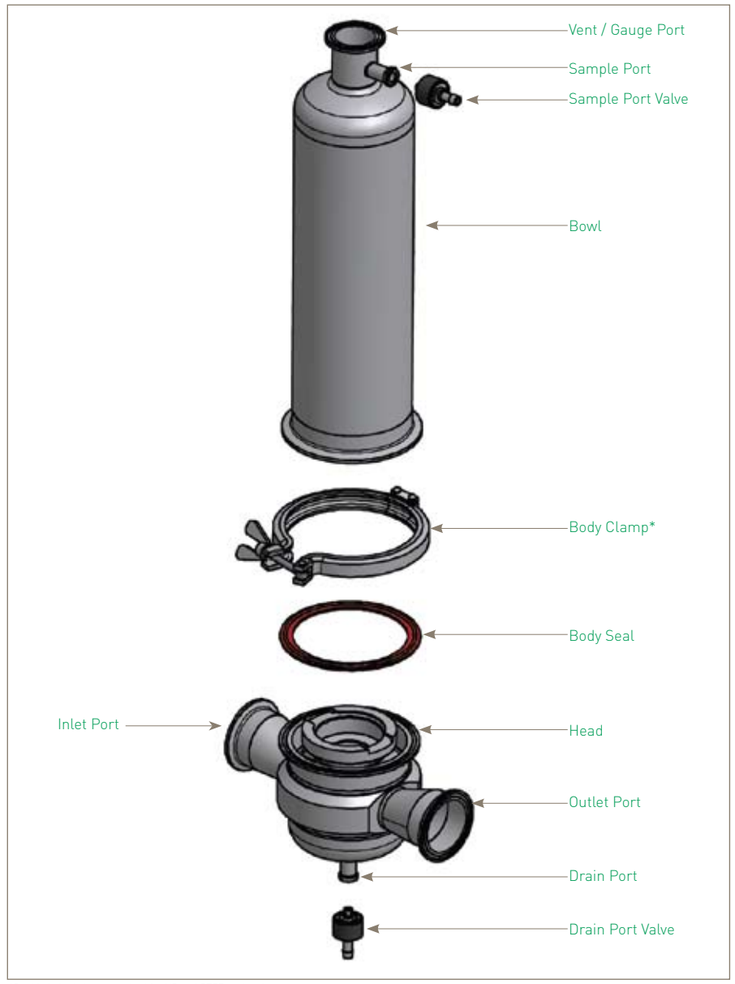
Oxygen Service Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	7.20 barg (104.42 psig)	5.60 barg (81.22 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.9	3.1	5.0	6.9	8.8

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
5"	(125 mm)	229	337	205	0.9	1.9	3.3
10"	(250 mm)	229	487	324	1.5	1.9	3.9
20"	(500 mm)	229	737	572	2.5	1.9	4.9
30"	(750 mm)	229	982	820	3.5	1.9	5.9
40"	(1000 mm)	229	1232	1068	4.5	1.9	6.9

Dimensions shown are for a vessel with 2" tri-clamp ports, sample port and drain valve. For other formats, please contact Parker domnick hunter.





**Double bolted clamp required for HP and PTFE seal options*

Ordering Information

HSA [ ] 01 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP*	High Pressure
OX	Oxygen Service

** Supplied complete with a double bolted clamp*

Code	Length (Nominal)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
Y	1 1/2" (38.1 mm)
C	2" (50.8 mm)

Code	Standard
T	Tri-Clamp

Code	Cartridge
C	226

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
C	Rectus 21 Vertical
H	1 1/2" TCF & Hosebarb
I	1 1/2" TCF & Staubli RBE03
M	1 1/2" TCF & 1/2" TCF
R	1 1/2" TCF & Rectus 21
S	Staubli RBE03 Vertical
T	1 1/2" TCF Only

Code	Drain
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	1/2" TCF

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

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HBA Filter Housing

- industrial air / gas

- Flow efficient range of air / gas housings
- Designed to maximise flow and minimise pressure drop
- Designed specifically for the food and beverage industry

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: Silicone FDA
- Vent / Drain Seals: PTFE

Surface Finish

- Internal: As Welded
- External: Polished 0.8 µm Ra

All finishes pickled & passivated.

Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	01K	011	012
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I
Volume (litres)			2.5	3.7	5.6

Welding

All assembly welds are full penetration. All welds are crevice and undercut free.

Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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.

PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

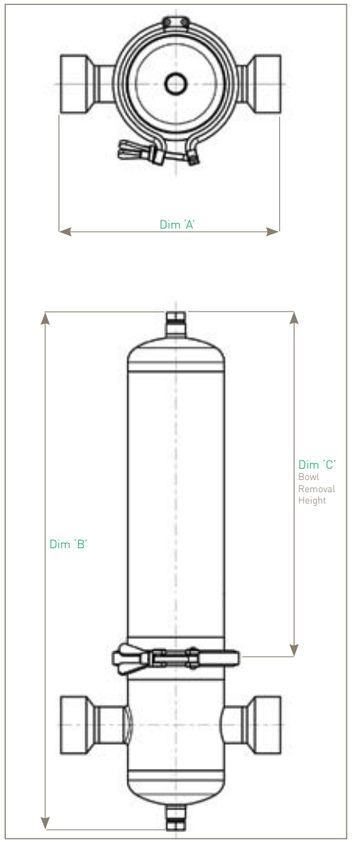
Design Basis

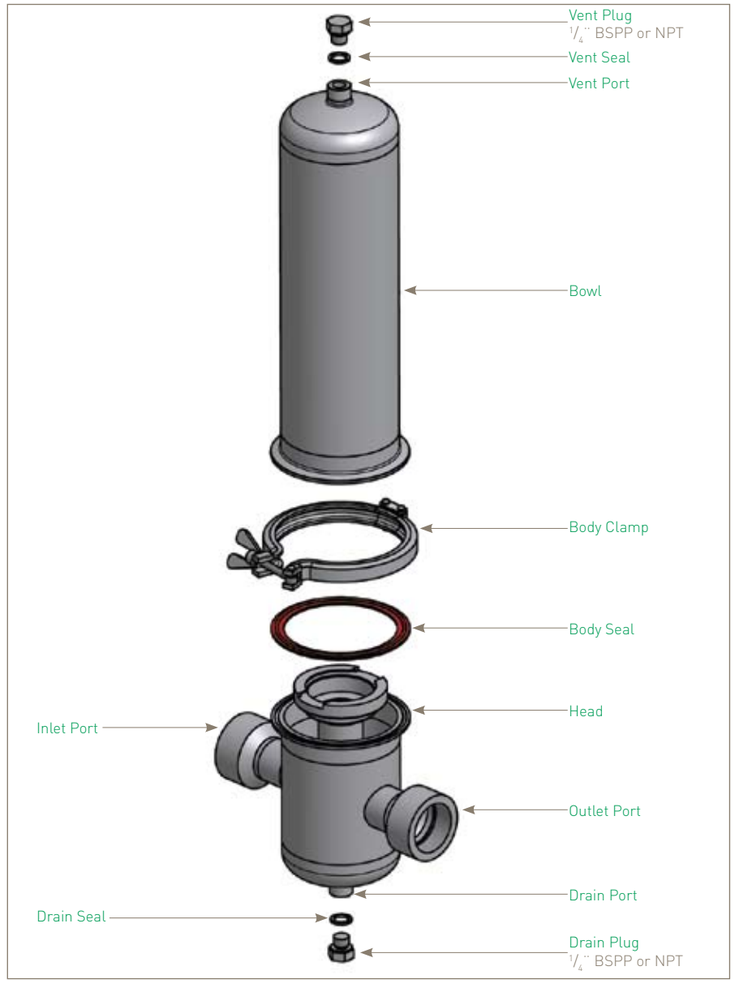
ASME VIII Division 1.

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
5" (125 mm)	231	396	223	0.9	1.9	3.6
10" (250 mm)	231	546	342	1.5	1.9	4.1
20" (500 mm)	231	796	590	2.5	1.9	5.2

Dimensions are based on illustration shown (HBACE011YB-C-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HBA [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm)	Y 1 1/2" (38.1 mm)	B BSPP N NPT	C 226	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range. Please see HBA⊕ datasheet for more information.

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HBA⊕ Filter Housing

- industrial air / gas

- Flow efficient range of air / gas housings
- Available in 4 different housing classes: Atex, CE, High Pressure and Oxygen Service
- Beverage, pharmaceutical and industrial surface finishes available
- A number of inlet / outlet port connections
- Wide range of vent and drain options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish

- Industrial Finish
  Internal: As Welded
  Pickled & Passivated
  External: Polished 0.8 µm Ra
- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			2.5	3.7	5.6	7.5	9.4

CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			2.5	3.7	5.6	7.5	9.4

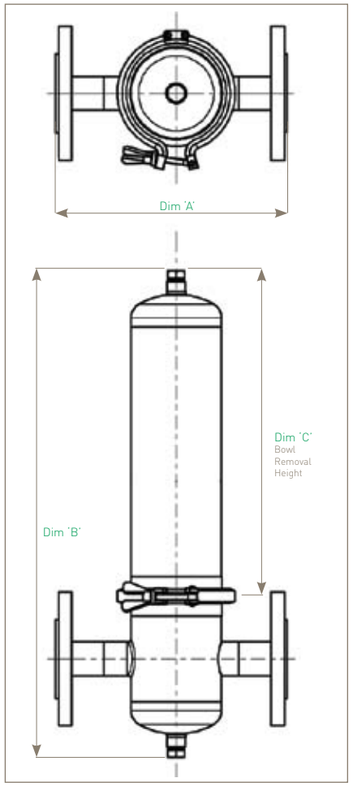
High Pressure Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			2.5	3.7	5.6	7.5	9.4

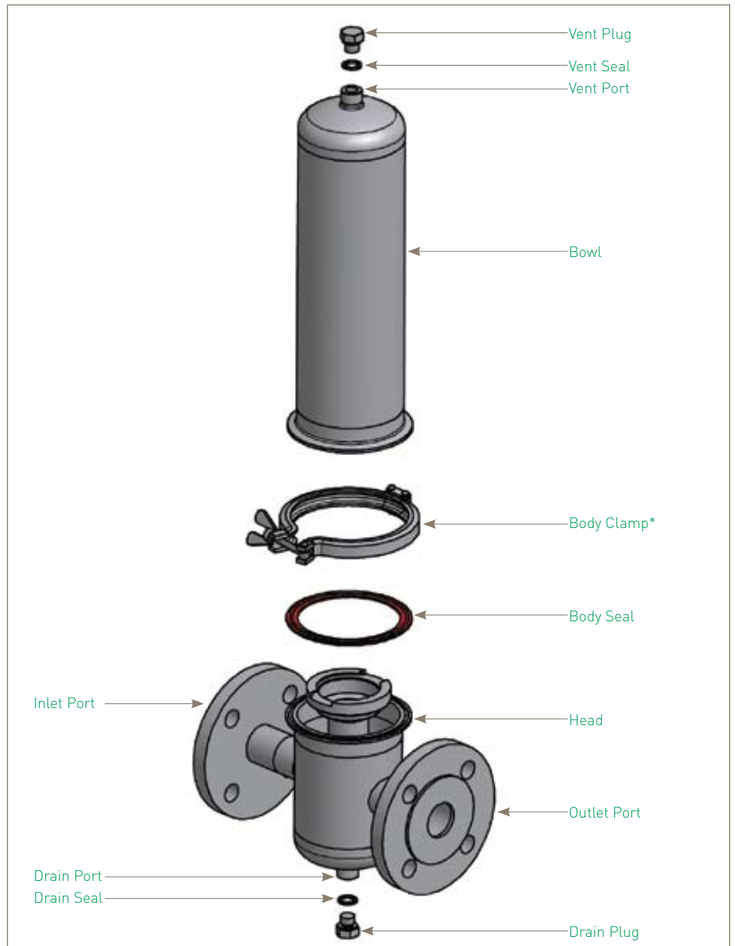
Oxygen Service Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Dangerous	Gas / Vapour	150 °C (302 °F)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			2.5	3.7	5.6	7.5	9.4

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
5"	(125 mm)	259	398	223	1.0	5.4	7.0
10"	(250 mm)	259	548	342	1.6	5.4	7.6
20"	(500 mm)	259	798	590	2.6	5.4	8.6
30"	(750 mm)	259	1043	838	3.6	5.4	9.6
40"	(1000 mm)	259	1293	1068	4.6	5.4	10.6

Dimensions shown are for a vessel with 1 1/2" BS4504 DIN2633 ports, 1/4" BSPP vent and drain. For other formats, please contact Parker domnick hunter.





*Double bolted clamp required for HP and PTFE seal options

Ordering Information

HBA [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP*	High Pressure
OX	Oxygen Service

* Supplied complete with a double bolted clamp

Code	Length (Nominal)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
Y	1 1/2" (38.1 mm)
C	2" (50.8 mm)

Code	Standard
B	BSPP (F)
D	DIN11851(M)
F	ANSI RF 150[1]
H	ANSI RF 300
L	BS4504 DIN2633
N	NPT (F)
M*	SMS Pipe (3008)
T	Tri-Clamp
W	ISO / BS Pipe

[1] Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.
* SMS 1.12" = 38 OD x 1.2 THK
SMS 2" = 51 OD x 1.2 THK

Code	Cartridge
C	226

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

* Double bolted clamp required

[2] Not available in Industrial Finish.

Code	Vent
B	1/4" BSPP (F)
C	Rectus 21 Vertical[2]
H	1 1/2" TCF & Hosebarb[2]
I	1 1/2" TCF & Staubli RBE03[2]
M	1 1/2" TCF & 1/2" TCF[2]
N	1/4" NPT (F)
R	1 1/2" TCF & Rectus 21[2]
S	Staubli RBE03 Vertical
T	1 1/2" TCF Only [2]

Code	Drain
B	G1/4" BSPP
N	G1/4" NPT
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	1/2" TCF

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
I	Industrial	As Welded	0.8 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

HSV Filter Housing

- vent applications

- Vent housings
- Direct connection to tank boss allows housing to be self-supportive
- Corrosion resistant 316L stainless steel
- Easy assembly and maintenance

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.8 µm Ra
- External: As welded

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

Recommended Operation Guidelines Sizing

Sizing vent vessels particulary for vacuum sensitive tanks can require specialist advice. It is important that VENT housings are sized on maximum gas flow capacity under actual operation conditions.

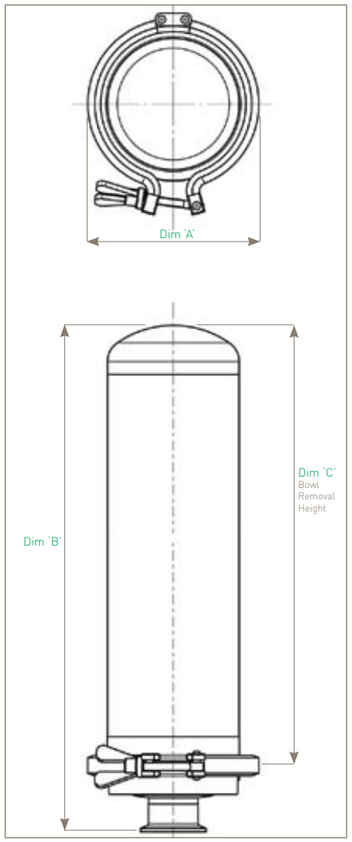
Vacuum Protection

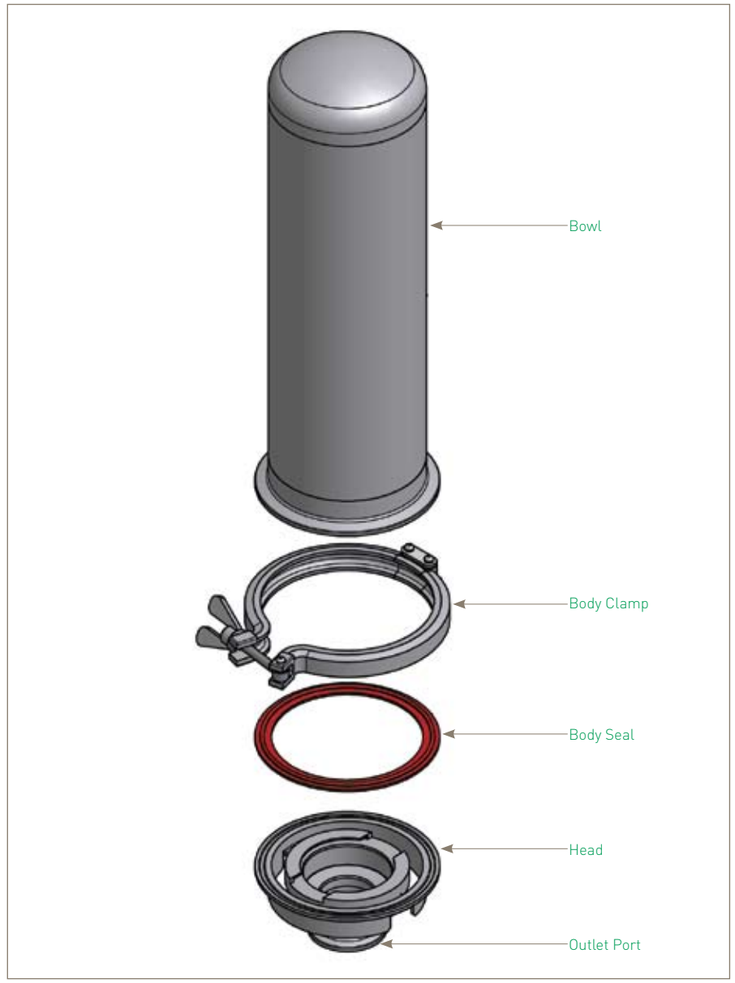
Where a tank is vacuum sensitive, there is a risk of tank collapse. In such cases the fitting of an appropriately rated bursting disc (or similar) and, if necessary a pressure relief valve, is highly recommended.

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
5" (125 mm)	132	242	194	0.9	0.7	2.2
10" (250 mm)	132	392	313	1.5	0.7	2.8
20" (500 mm)	132	642	561	2.5	0.7	3.8

Dimensions are based on illustration shown (HSVDH011YT-C-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSV ☐ 01 ☐ ☐ ☐ - ☐ - ☐

Code | Vessel Class		Code | Length (Nominal)		Code | Connection Size		Code | Standard		Code | Cartridge		Code | Seal	
DH	Vent Housing	K	5" (125 mm)	Y	1½" (38.1 mm)	T	Tri-Clamp	C	226	S	Silicone
		1	10" (250 mm)								
		2	20" (500 mm)								

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HSV⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

HSV⊕ Filter Housing

- industrial vent

- Industrial vent housings
- Available in Atex version
- Beverage, pharmaceutical and industrial surface finishes available
- Available in various connection types

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Note: Seal used only to position bowl clamp arrangement.

Surface Finish

- Industrial Finish
  Internal: As Welded
  Pickled & Passivated
  External: Polished 0.8 µm Ra
- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra
  and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Design Basis

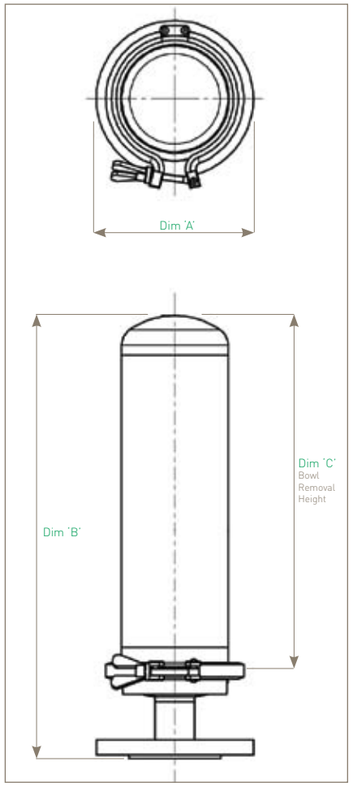
ATEX 94/9/EC *(where applicable)*

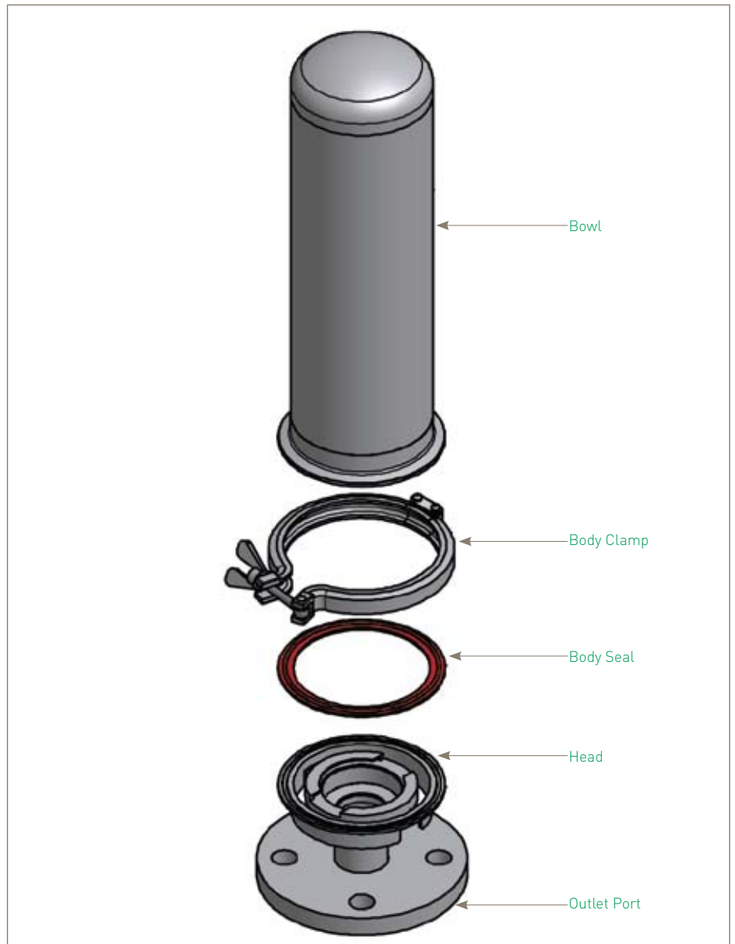
Working Condition PED 97/23/EC			Volume (litres)				
Variant	State	Temperature	01K	011	012	013	014
Standard	Gas / Vapour	150 °C (302 °F)	1.6	2.8	4.7	6.6	8.5
ATEX	Gas / Vapour	135 °C (275 °F)	1.6	2.8	4.7	6.6	8.5

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
5"	(125 mm)	132	274	194	0.9	2.6	4.0
10"	(250 mm)	132	424	313	1.5	2.6	4.6
20"	(500 mm)	132	674	561	2.5	2.6	5.6
30"	(750 mm)	132	919	809	3.5	2.6	6.6
40"	(1000 mm)	132	1169	1057	4.5	2.6	7.6

Dimensions shown are for a vessel with 1½" BS4504 DIN 2633 outlet port.
For other formats, please contact Parker domnick hunter.





Ordering Information

HSV ☐ 01 ☐ ☐ ☐ ☐ ☐ - ☐ - ☐

Code	Vessel Class
DH	Standard
AT	ATEX

Code	Length (Nominal)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
C	2" (50.8 mm)
Y	1½" (38.1 mm)

Code	Standard
B	BSPP (F)
D	DIN11851(M)
F	ANSI RF150
L	BS4504
	DIN2633
N	NPT (F)
T	Tri-Clamp
W	BS / ISO
	Pipe

Code	Cartridge
C	226

Code	Seal
E	EPDM
P	PTFE
S	Silicone
V	Viton

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
I	Industrial	As Welded	0.8 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

HSL Filter Housing

- sanitary liquid

- Single element sanitary liquid housing
- Designed specifically for the food and beverage and pharmaceutical industry
- Sanitary vent and tri-clamp connections as standard
- Sanitary tri-clamp body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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.

PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

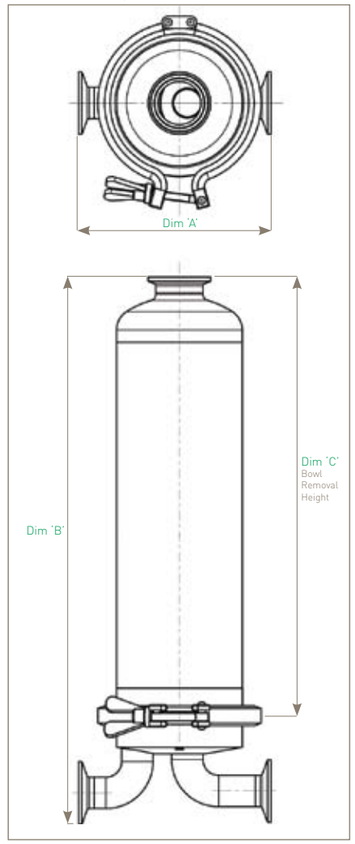
ASME VIII Division 1.

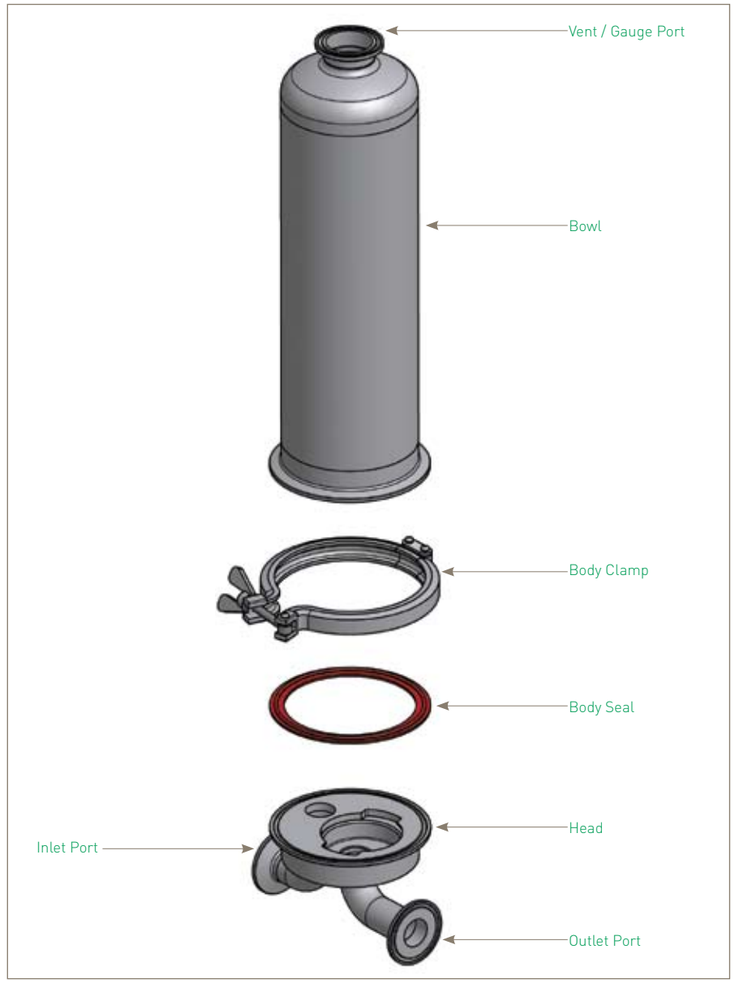
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	011	012	013
Non Dangerous	Liquid / Gas	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid / Gas	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I
Volume (litres)			2.9	4.8	6.7

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
10" (250 mm)	156	417	313	1.0	1.5	3.8
20" (500 mm)	156	667	561	1.6	1.5	4.8
30" (750 mm)	156	912	809	2.6	1.5	5.7

Dimensions are based on illustration shown (HSLCE011BT-C-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSL		01				-		-	

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm)	B 1" (25.4 mm)	T Tri-Clamp	C 226	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HSL® datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

HSL⊕ Filter Housing

- sanitary liquid

- Single element sanitary liquid housings
- Available in 3 different housing classes: Atex, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Wide range of connection, vent and drain options available

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.7	2.9	4.8	6.7	8.6

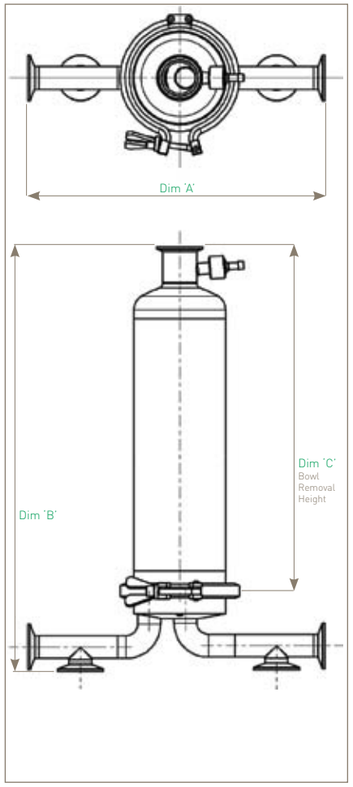
CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.7	2.9	4.8	6.7	8.6

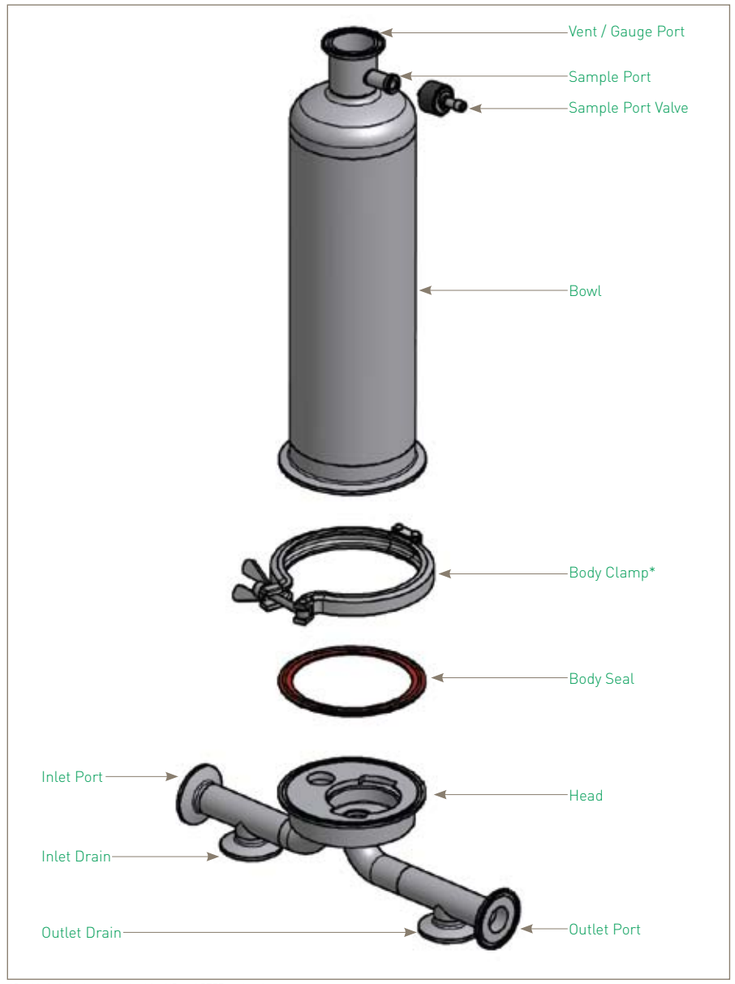
High Pressure Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour Liquid	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.7	2.9	4.8	6.7	8.6

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
5"	(125 mm)	330	321	194	0.9	1.9	3.3
10"	(250 mm)	330	472	315	1.5	1.9	3.9
20"	(500 mm)	330	722	561	2.5	1.9	4.9
30"	(750 mm)	330	967	809	3.5	1.9	5.9
40"	(1000 mm)	330	1217	1057	4.5	1.9	6.9

Dimensions shown are for a vessel with 1" tri-clamp ports and inlet / outlet drains. For other formats, please contact Parker domnick hunter.





*Double bolted clamp required for HP and PTFE seal options

Ordering Information

HSL [ ] 01 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP*	High Pressure

** Supplied complete with a double bolted clamp*

Code	Length (Nominal)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
B	1" (25.4 mm)

Code	Standard
D	DIN11851(M)
F	ANSI RF 150[1]
H	ANSI RF 300
L	BS4504 DIN2633
R	RJT(M)
S	SMS Union (M)
T	Tri-Clamp
W	ISO / BS Pipe

[1] Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.

Code	Cartridge
C	226

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
A	1½" TCF & 2 x Rectus 21
B	1½" TCF & 2 x Staubli RBE03
H	1½" TCF & Hosebarb
I	1½" TCF & Staubli RBE03
M	1½" TCF & ½" TCF
R	1½" TCF & Rectus 21
S	Staubli RBE03 Vertical
T	1½" TCF Only

Code	Drain
H	Hosebarb Inlet Only
R	Rectus 21 Inlet Only
S	Staubli RBE03
X	No Drain
Y	1" TCF Inlet Only
Z	1" TCF Inlet & Outlet

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

HSI Filter Housing

- in-line sanitary liquid

- In-line sanitary liquid housing
- High quality crevice free construction
- Sanitary body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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.

PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

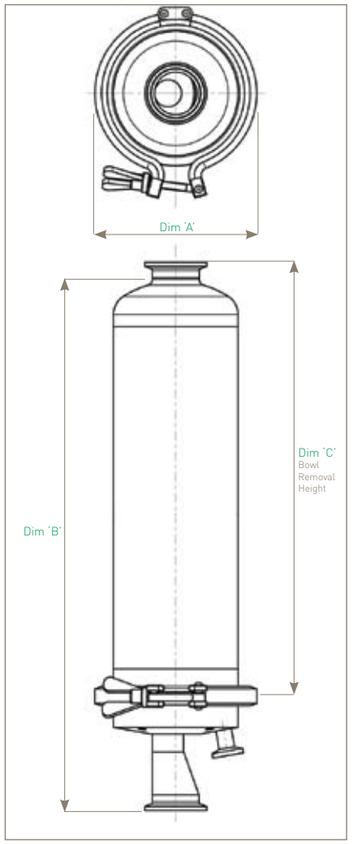
ASME VIII Division 1.

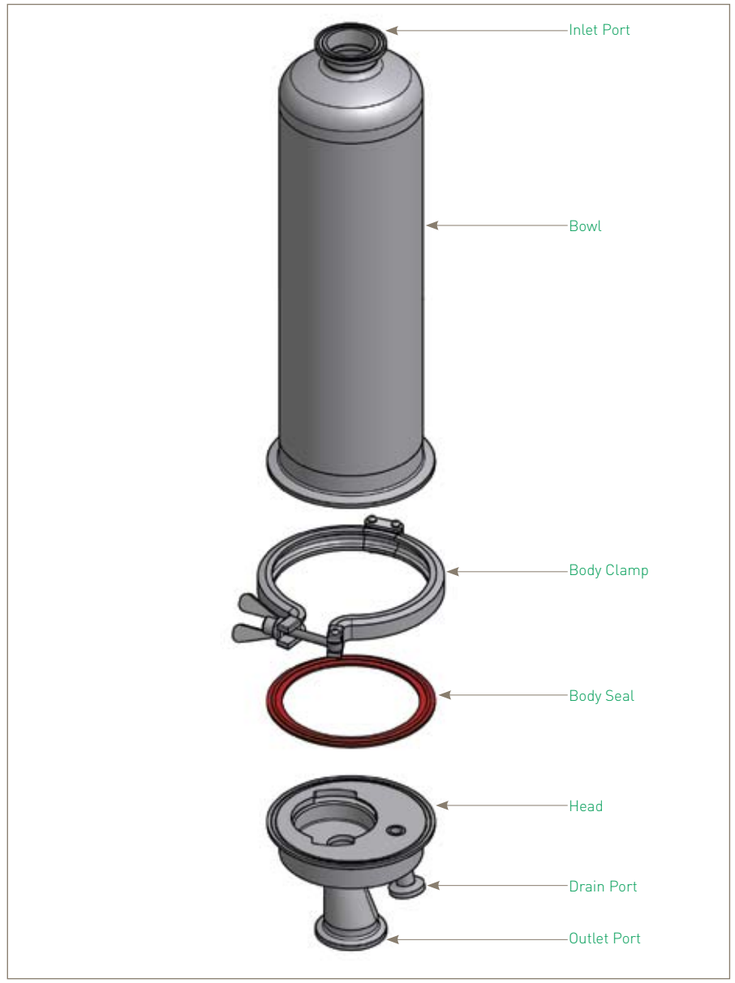
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	011	012	013
Non Dangerous	Liquid / Gas	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid / Gas	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I
Volume (litres)			2.8	4.7	6.6

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
10" (250 mm)	132	449	313	1.0	1.5	3.6
20" (500 mm)	132	699	561	1.6	1.5	4.6
30" (750 mm)	132	944	809	2.6	1.5	5.6

Dimensions are based on illustration shown (HSICE011YT-C-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSI [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm)	Y $1^1/_2$" (38.1 mm)	T Tri-Clamp	C 226	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range. Please see HSI⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

HSI⊕ Filter Housing

- in-line sanitary liquid

- In-line sanitary liquid housing
- Available in 3 different housing classes: Atex, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Sampling and drain port options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

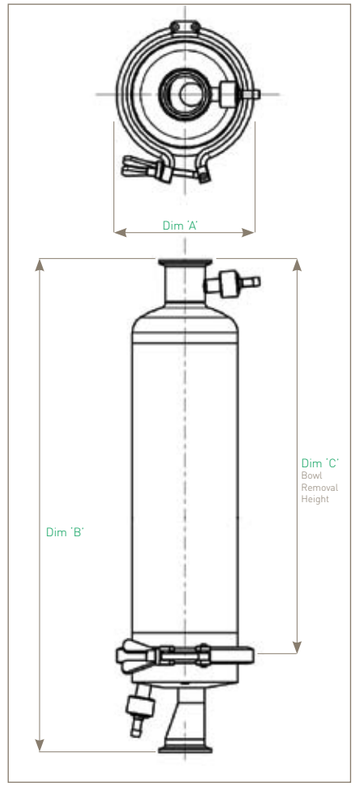
CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

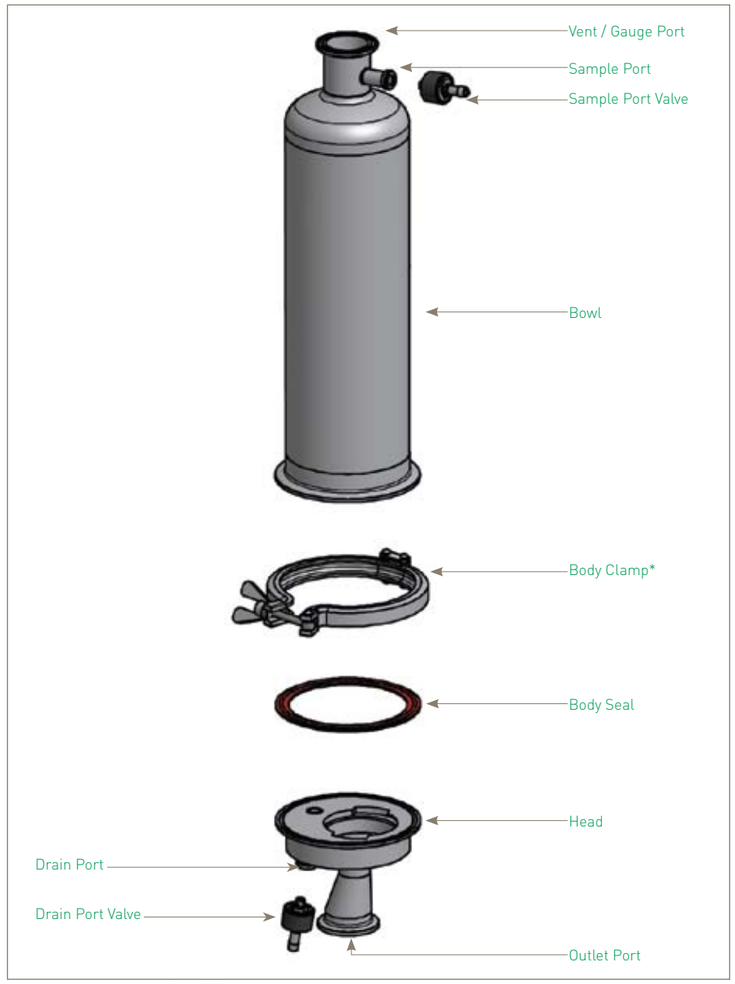
High Pressure Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour Liquid	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
5"	(125 mm)	132	327	194	0.9	1.5	2.9
10"	(250 mm)	132	477	313	1.5	1.5	3.5
20"	(500 mm)	132	727	561	2.5	1.5	4.5
30"	(750 mm)	132	972	809	3.5	1.5	5.5
40"	(1000 mm)	132	1222	1057	4.5	1.5	6.5

Dimensions shown are for a vessel with a vent sample port. For other formats, please contact Parker domnick hunter.





*Double bolted clamp required for HP and PTFE seal options

Ordering Information

HSI [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP*	High Pressure

** Supplied complete with a double bolted clamp*

Code	Length (Nominal)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
Y	1½" (38.1 mm)

Code	Standard
T	Tri-Clamp

Code	Cartridge
C	226

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
H	1½" TCF & Hosebarb
I	1½" TCF & Staubli RBE03
M	1½" TCF & ½" TCF
R	1½" TCF & Rectus 21
X	No Vent

Code	Drain
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	½" TCF
X	No Drain

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

HIL Filter Housing

- industrial liquid

- Industrial single element liquid housing
- 1¨ BSPP or NPT inlet / outlet standard connections
- Suitable replacement for plastic housings
- Suitable for cartridge types DOE or 222

Specification

Materials of Construction

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

Surface Finish

- Internal: As Welded
- External: Polished 0.8 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.

Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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.

PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

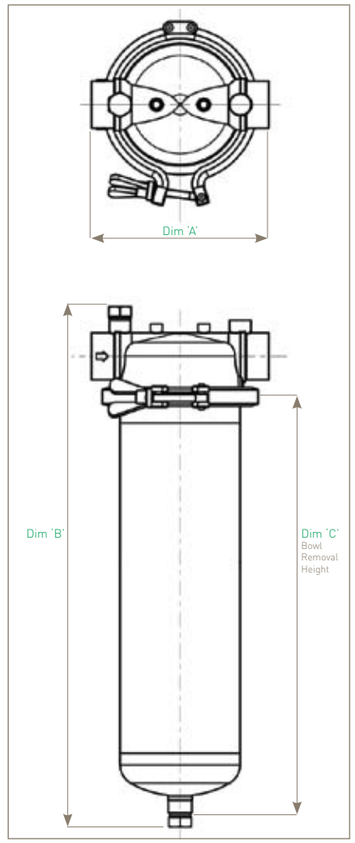
ASME VIII Division 1.

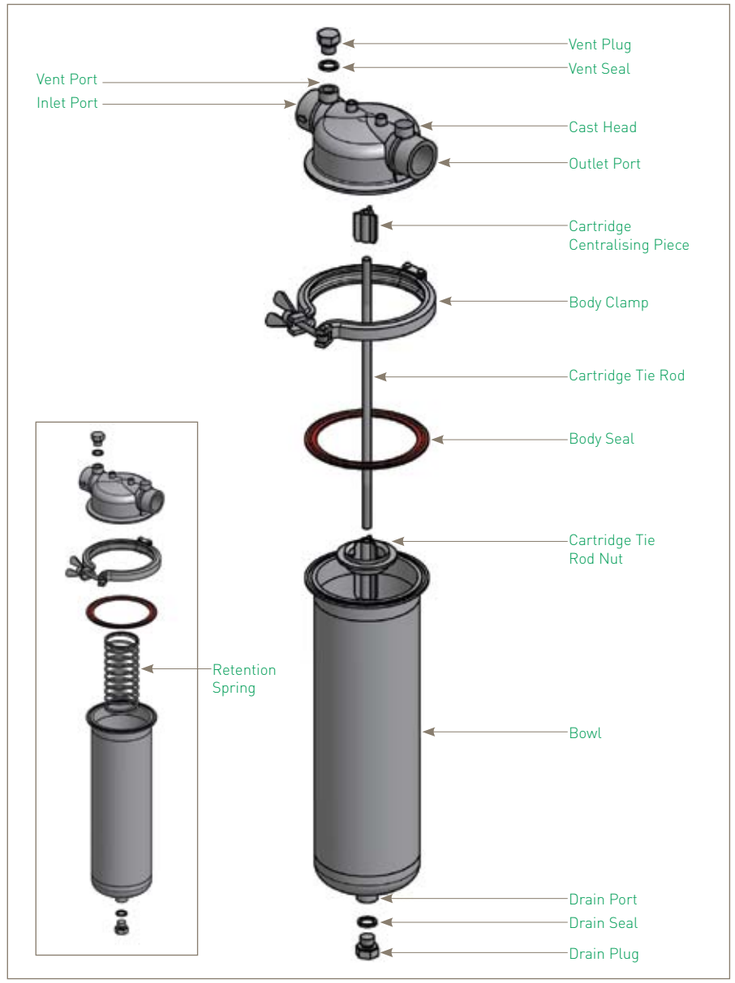
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	011	012	013
Non Dangerous	Liquid / Gas	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid / Gas	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I
Volume (litres)			3.2	5.1	7.0

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Weight (Kg) Bowl	Head	Total
10¨ (250 mm)	150	441	297	1.5	1.2	3.8
20¨ (500 mm)	150	691	550	2.5	1.2	4.9
30¨ (750 mm)	150	936	814	3.5	1.2	6.0

Dimensions are based on illustration shown (HILCE011BB-B-E).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HIL [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	1 10¨ (250 mm) 2 20¨ (500 mm) 3 30¨ (750 mm)	B 1¨ (25.4 mm)	B BSPP N NPT	B DOE D 222	E EPDM

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HIL® datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker domnick hunter

HIL⊕ Filter Housing

- industrial liquid

- Industrial single element liquid housing
- Available in 3 different housing classes: Atex, CE and High Pressure
- Industrial and industrial-electropolished surface finishes available
- Suitable for cartridge types DOE or 222
- Fabricated 'C' style version available (Not Cast Head)

Specification

Materials of Construction

- Housing: 316L Stainless Steel (Cast Head)
- Seals: EPDM FDA, PTFE FDA, Silicone FDA, Viton FDA

Surface Finish
Two Finished Available:

- Industrial Finish
  Head-Cast, Pickled & Passivated
  Bowl Internal: As Welded, Pickled & Passivated
  Bowl External: Polished 0.8 µm Ra
- Industrial Electropolished Finish
  Head-Cast, Pickled & Passivated
  Bowl Internal: Electropolished
  Bowl External: Polished 0.8 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I
Volume (litres)			3.2	5.1	7.0	8.9

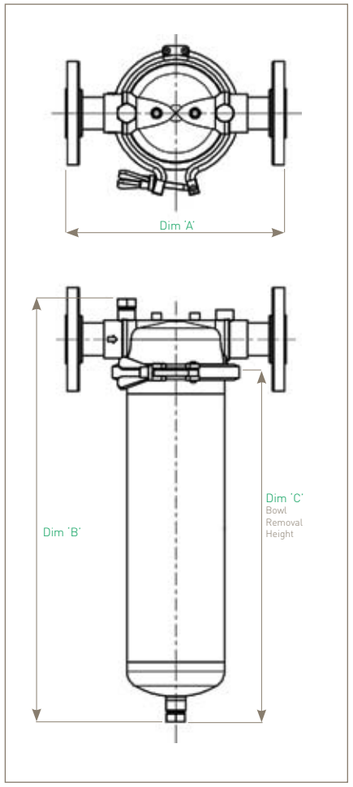
CE Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	CAT I	CAT I	CAT I
Volume (litres)			3.2	5.1	7.0	8.9

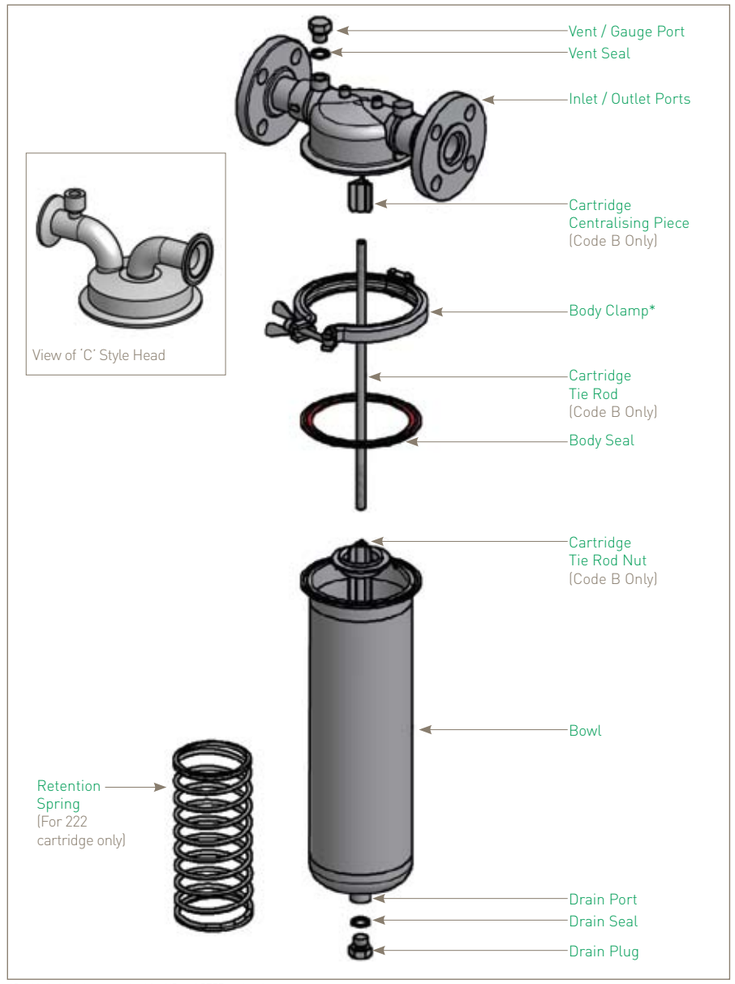
High Pressure Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	011	012	013	014
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
Non Dangerous	Liquid	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			CAT I	CAT I	CAT I	CAT I
Volume (litres)			3.2	5.1	7.0	8.9

Physical Characteristics

Bowl Height		Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg) Bowl	Head	Total
10"	(250 mm)	230	441	297	1.5	5.4	7.8
20"	(500 mm)	230	691	550	2.5	5.4	8.9
30"	(750 mm)	230	936	814	3.5	5.4	10.0
40"	(1000 mm)	230	1186	1058	4.5	5.4	11.1

Dimensions shown are for a vessel with 1" BS4504 DIN 2633 ports, 1/4" BSPP vent and drain. For other formats, please contact Parker domnick hunter.





**Double bolted clamp required for HP and PTFE seal options*

Ordering Information

HIL [ ] 01 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP*	High Pressure

** Supplied complete with a double bolted clamp*

Code	Length (Nominal)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
B	1" (25.4 mm)
Y	1 1/2" (38.1 mm)

Code	Standard
B*	BSPP (F)
F	ANSI RF150[1]
H	ANSI RF 300
L	BS4504 DIN2633
N*	NPT (F)
T*°	Tri-clamp

** Only available in 1" connection*
[1] Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.
° Only available with 'C' Style cartridge configuration

Code	Cartridge
B	DOE
C	226 (Fabricated Head)
D	222

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
B	1/4" BSPP
N	1/4" NPT
X°	No Vent

°Only available with 'C' Style cartridge configuration

Code	Drain
B	1/4" BSPP
N	1/4" NPT

Code	Surface Finish	Internal	External
E	Industrial Electropolished	Electropolished	0.8 µm
I	Industrial	As Welded	0.8 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

ZVP Housings

- industrial plastic

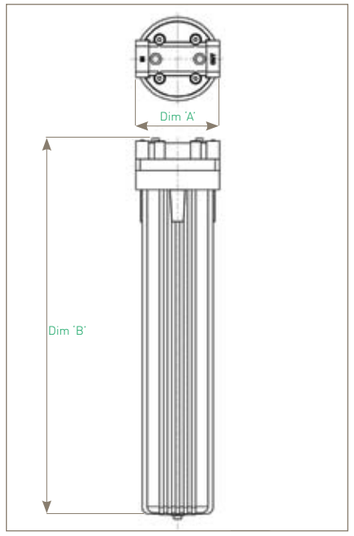
- Single cartridge polypropylene / nylon housing
- Accepts DOE filters with knife edge sealing
- Accepts plug-in cartridges with positive o-ring seals
- Meets water conditioning foundation standards for hydraulic leak test and ultimate burst pressure
- Cost-effective filtration of liquids for pharmaceutical, chemical and beverage applications

Available Options

Type	Material	Design Pressure (barg)	Design Temperature
ZVP-1	Reinforced Polypropylene	8.6	51.7 °C (125 °F)
ZVP-2	Reinforced Polypropylene	8.6	51.7 °C (125 °F)
ZVP-3	Polycarbonate / Reinforced Polypropylene	8.6	51.7 °C (125 °F)
ZVP-4	Nylon	8.5	71.1 °C (160 °F)
ZVP-5	Reinforced Polypropylene	8.6	51.7 °F (125 °F)
ZVP-7	Reinforced Polypropylene	8.6	51.7 °C (125 °F)
ZVP-10	Reinforced Polypropylene	8.6	51.7 °C (125 °F)
ZVP-11	Pure Polypropylene	8.9	38.0 °C (100.4 °F)

Type	Crossport (A) (mm)	Overall Height (B) (mm)	Approx Weight (kg)	Approx Volume (L)	Connection Size / Type	Vent Button
ZVP-1	112.7	180	0.6	0.7	3/8" BSPP	Yes
ZVP-2	130.0	311	1.5	1.6	3/4" BSPP	Yes
ZVP-3	130.0	321	1.2	1.6	3/4" BSPP	Yes
ZVP-4	130.0	305	1.8	1.6	3/4" BSPP	No
ZVP-5	130.0	569	1.9	2.6	3/4" BSPP	Yes
ZVP-7	130.0	311	1.5	1.6	3/4" BSPP	Yes
ZVP-10	130.0	569	1.9	2.6	3/4" BSPP	Yes
ZVP-11	130.0	316	1.4	1.6	3/4" BSPP	No*

** 1/4" BSPP vent and drain sockets with o-rings and plugs*



Heating Jackets

The design of heating systems for vent filters working in high humidity environments is often treated as an afterthought, but the correct operation of these filters can be critical to many processes. Applications such as the venting of Water For Injection (WFI) holding tanks rely on a well designed heated housing to prevent condensation build up, filter blockage and the risk of microbial growth. It is also one of the key design requirements highlighted in current FDA recommendations. Heating may also be required during hot water sanitisation and CIP to prevent excess differential pressure being generated from high levels of bulk condensate.

- Heating system for vent applications
- Waterproof protection to IP65
- Fully insulated 'cool touch' outer surface
- Accurate temperature control using PT100RT6

Specification - Heating Jacket

Materials of Construction
- Jacket Material
  - Silicone: Silicone Rubber
  - Glass Silk: PTFE Coated Glass Silk
- Insulation Material
  - Silicone: Silicone Foam
  - Glass Silk: PTFE Coated Glass Silk

Operating Voltage
110 V or 230 V

Power Output
5" (125 mm): 63 W
10" (250 mm): 279 W
20" (500 mm): 558 W
30" (750 mm): 837 W

Maximum Withstand Temperature De-Energised
200 °C (392 °F)

Temperature Sensor
PT100

Thermal Cut-Out Temperature Setting
150 °C ± 5 °C (302 °F ± 41 °F)

Test Voltage
1500 V

Insulation Value
Greater than 100 mΩ

Protection Rating
Silicone: IP65
Glass Silk: Not Applicable
Inter-Connection Plugs: IP67

Design Standards
EN 60519-1 and EN 60519-2

Specification - Temperature Control Unit

Materials of Construction
- Material: Polycarbonate

Operating Voltage
110 V or 230 V

Maximum Withstand Temperature of Controller
55 °C (131 °F)

Maximum Continuous Current Out
7 A

Over Current Protection @ 230 °C Ambient
4 seconds @ 12 A, 1 second @ 24 A

Set Temperature Display
8 mm Red LED Display

Actual Temperature Display
10 mm Green LED Display

PID (Proportional Integral Derivative) Control
Via autotune parameters (set by user)

Protection Rating
IP65

Design Standards
EN 61010-1

Alarm Contacts (Normally Open) When Applicable
Switching Capacity Max.
250 VAC 0.5 A (load resistance)
125 VAC 1 A (load resistance)
60 VAC 1 A (load resistance)

Small Scale Single Housings

Demi 2.5¨ & 5¨ small scale filter housings

HSA - Sanitary air / gas housing
Pharmaceutical & beverage grade finishes

HBA - Industrial air / gas housing
Specifically designed for the food & beverage industry

HSV - Vent housing
Pharmaceutical & beverage grade finishes

HSL - Sanitary liquid housing
Pharmaceutical & beverage grade finishes

HSI - In-line sanitary liquid housing
Pharmaceutical & beverage grade finishes

HIF - Industrial air / liquid housing
Industrial grade finish as standard

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HSA Filter Housing

- sanitary air / gas

- Flow efficient sanitary range of air / gas housings
- Designed specifically for the food and beverage industry
- Sanitary tri-clamp, vent and drain connections as standard
- Sanitary tri-clamp body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.

Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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

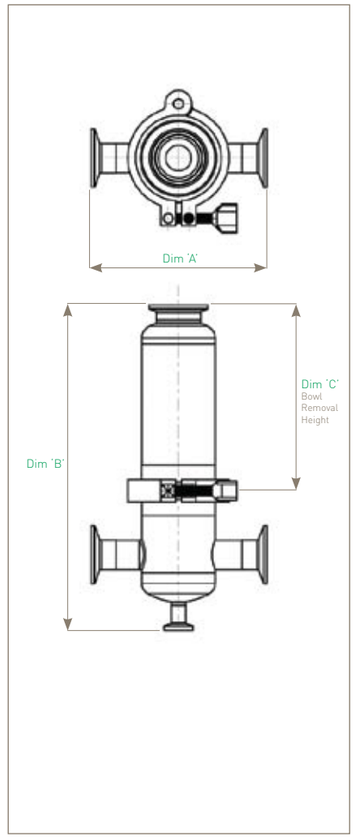
ASME VIII Division 1.

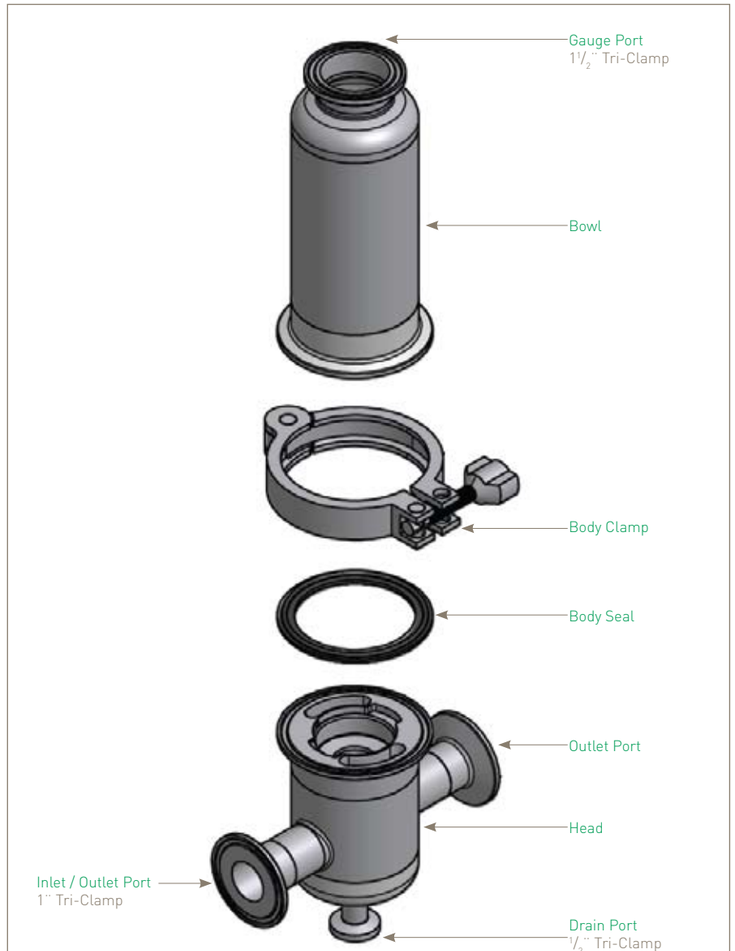
Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	152	227	130	1.3
B Size 2 1/2" (65 mm)	152	172	70	1.2

Dimensions are based on illustration shown (HSACE01ABT-T-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSA [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	A 5" (125 mm) B 2 1/2" (65 mm)	B 1"	T Tri-Clamp	T 126	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HSA⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HSA⊕ Filter Housing

- sanitary air / gas

- Sanitary range of air / gas housing
- Available in 4 different housing classes: Atex, CE, High Pressure and Oxygen Service
- Both beverage and pharmaceutical surface finishes available
- A choice of easy to use sanitary vent and drain options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish Options

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

CE Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.5

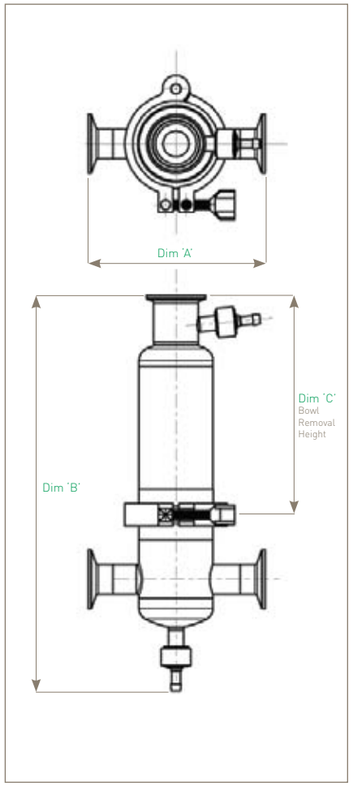
High Pressure Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.5

Oxygen Service Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.5

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	152	340	130	1.3
B Size 2 1/2" (65 mm)	152	285	70	1.2

Dimensions are based on illustration shown (HSACE01ABTTE-HH-P-X).
For accurate dimensions, please contact Parker domnick hunter.




ATEX Components

Ordering Information

HSA [ ] 01 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP	High Pressure
OX	Oxygen Service

Code	Length (Nominal)
A	5" (125 mm)
B	2 1/2" (65 mm)

Code	Connection Size
B	1"
T	3/4"
A	1/2"

Code	Standard
T	Tri-Clamp

Code	Cartridge
T	126

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
C	Rectus 21 Vertical
H	1 1/2" TCF & Hosebarb
I	1 1/2" TCF & Staubli RBE03
M	1 1/2" TCF & 1/2" TCF
R	1 1/2" TCF & Rectus 21
S	Staubli RBE03 Vertical
T	1 1/2" TCF Only

Code	Drain
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	1/2" TCF

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HBA Filter Housing

- industrial and beverage air / gas

- Flow efficient range of air / gas housings
- Designed to maximise flow and minimise pressure drop
- Designed specifically for the food and beverage industry

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Body Seal: Silicone FDA
- Vent / Drain Seal: PTFE FDA

Surface Finish

- Internal: Unpolished 1 µm Ra Typical
- External: Polished 0.8 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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

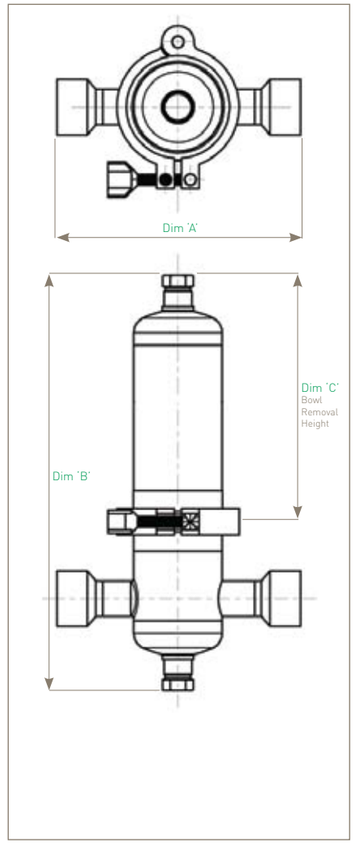
ASME VIII Division 1.

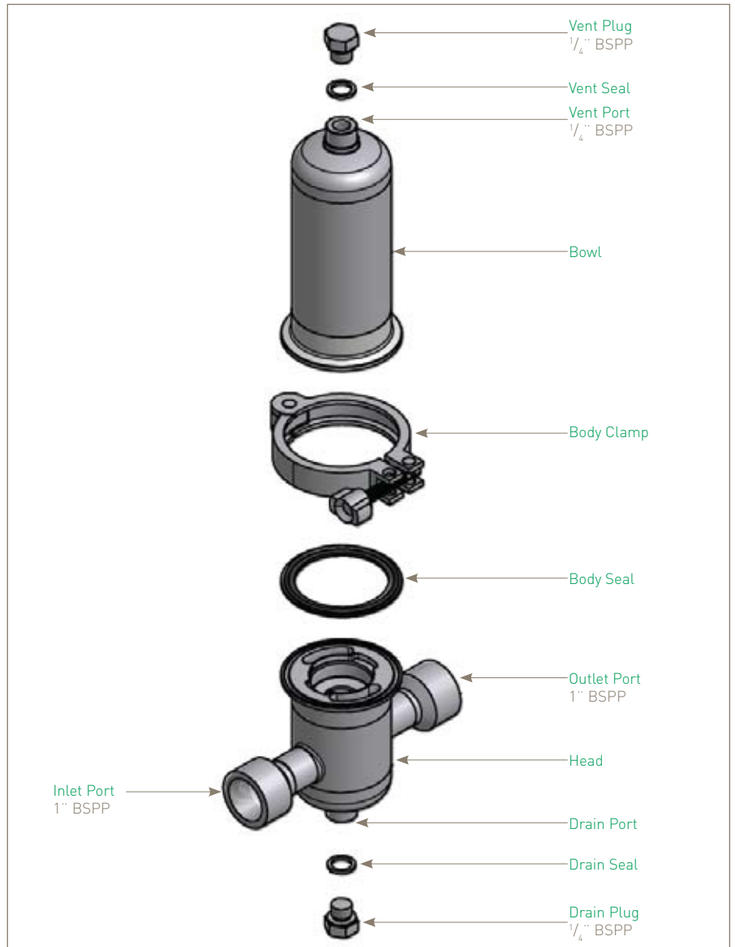
Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	175	300	130	1.5
B Size $2^1/_2$" (65 mm)	175	245	70	1.4

Dimensions are based on illustration shown (HBACE01ABB-TS).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HBA [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	A 5" (125 mm) B $2^1/_2$" (65 mm)	B 1"	B BSPP N NPT	T 126	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HBA⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HBA⊕ Filter Housing

- industrial and beverage air / gas

- Flow efficient range of air / gas housings
- Available in 4 different housing classes: Atex, CE, High Pressure and Oxygen Service
- Beverage, pharmaceutical and industrial surface finishes available
- A number of inlet / outlet port connections
- Wide range of vent and drain options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Body Seal: EPDM FDA, PTFE FDA, Silicone FDA, Viton FDA
- Vent / Drain Seal: PTFE FDA

Surface Finish Options

- Industrial Finish
  - Internal: As Welded, Pickled & Passivated
  - External: Polished 0.8 µm Ra
- Beverage Finish
  - Internal: Polished 0.4 µm Ra
  - External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  - Internal: Polished 0.4 µm Ra and Electropolished
  - External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

CE Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

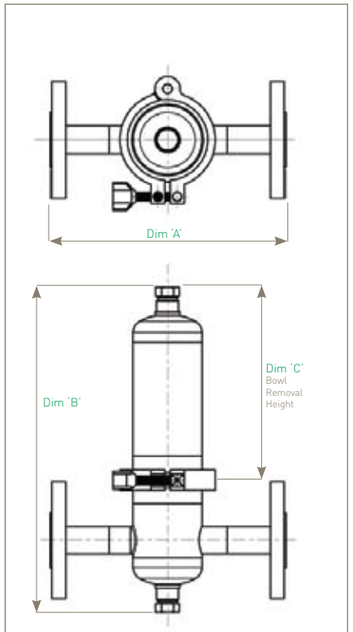
High Pressure Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Oxygen Service Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	220	300	130	1.5
B Size 2 1/2" (65 mm)	220	245	70	1.4

Dimensions are based on illustration shown (HBACE01ABFTE-BB-P-X).
For accurate dimensions, please contact Parker domnick hunter.




ATEX Components

Ordering Information

HBA [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP	High Pressure
OX	Oxygen Service

Code	Length (Nominal)
A	5" (125 mm)
B	2 1/2" (65 mm)

Code	Connection Size
B	1"
T	3/4"
A	1/2"
X	3/8"
Q	1/4"

Code	Standard
B	BSPP (F)
D[2]	DIN11851
F[3] [4]	ANSI RF 150
H[3]	ANSI RF 300
L[3]	BS4504 DIN2633
M*	SMS Pipe (3008)
N	NPT (F)
T[3]	Tri-Clamp
W	ISO / BS Pipe

[1] Not available in Industrial Finish.
[2] Only available in 1".
[3] Not available in 1/4" or 3/4".
[4] Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.
* SMS 1.12" = 38.0D x 1.2 THK
SMS 2" = 51.0D x 1.2 THK

Code	Cartridge
T	126

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

* Double bolted clamp required

Code	Vent
B	1/4" BSPP (F)
C	Rectus 21 Vertical
H[1]	1 1/2" TCF & Hosebarb
I[1]	1 1/2" TCF & Staubli RBE03
M[1]	1 1/2" TCF & 1/2" TCF
N	1/4" NPT (F)
R[1]	1 1/2" TCF & Rectus 21
S	Staubli RBE03 Vertical
T	1 1/2" TCF Only

Code	Drain
B	1/4" BSPP
N	1/4" NPT
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	1/2" TCF

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
I	Industrial	As Welded	0.8 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HSV Filter Housing

- vent housing

- Direct connection to tank boss allows housing to be self-supportive
- Corrosion resistant 316L stainless steel
- Easy assembly and maintenance

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.8 µm Ra
- External: As welded

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.

Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

Working Condition PED 97/23/EC		Volume (litres)	
State	Temperature	01A	01B
Gas / Vapour	150 °C (302 °F)	0.75	0.50

Recommended Operation Guidelines Sizing

Sizing vent vessels particulary for vacuum sensitive tanks can require specialist advice. It is important that VENT housings are sized on maximum gas flow capacity under actual operation conditions.

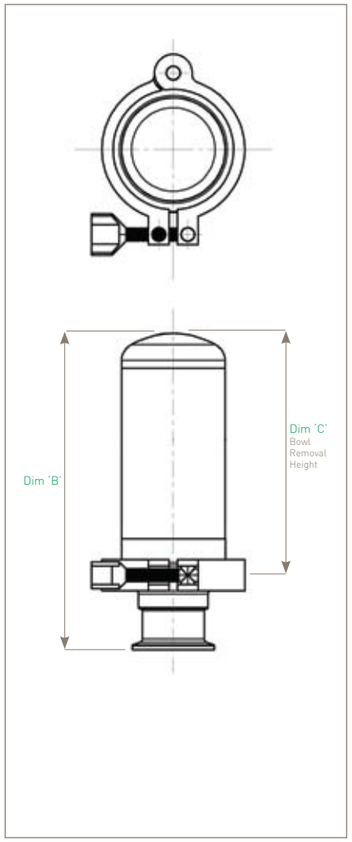
Vacuum Protection

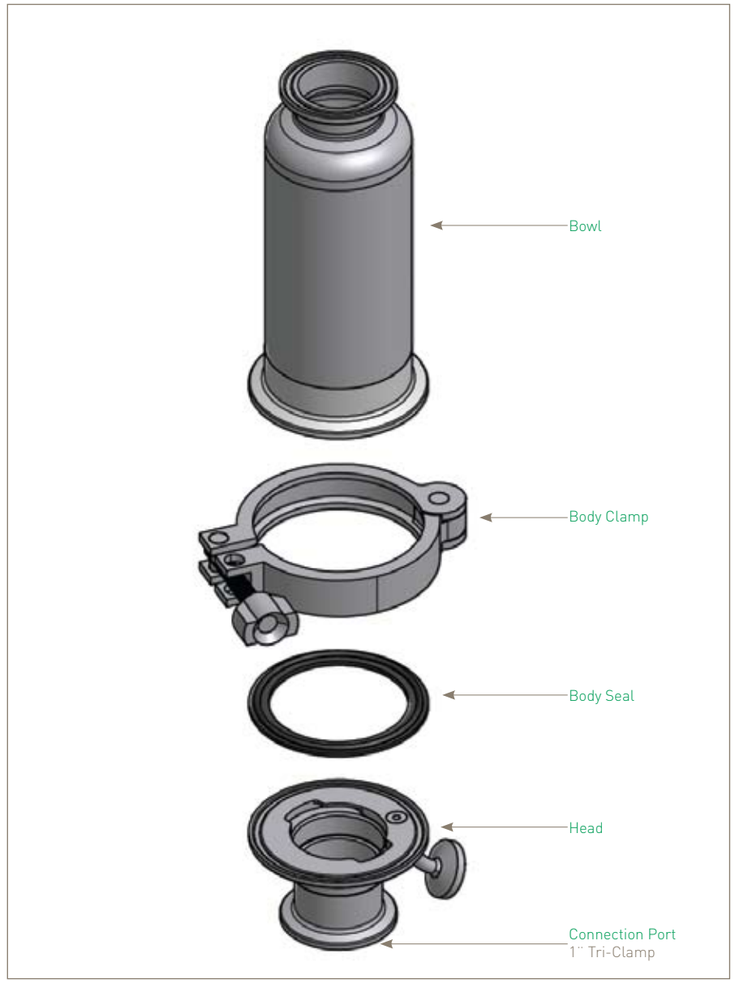
Where a tank is vacuum sensitive, there is a risk of tank collapse. In such cases the fitting of an appropriately rated bursting disc (or similar) and, if necessary a pressure relief valve, is highly recommended.

Physical Characteristics

Bowl Height	Dimensions (mm) 'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	195	130	1.0
B Size $2^1/_2$" (65 mm)	140	70	0.9

Dimensions are based on illustration shown (HSVDH01ABT-T-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSV ☐ 01 ☐ ☐ ☐ - ☐ - ☐

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
DH Vent Housing	A 5" (125 mm) B $2^1/_2$" (65 mm)	B 1"	T Tri-Clamp	T 126	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range. Please see HSV⊕ datasheet for more information.

Demi HSV⊕ Filter Housing

- vent housing

- Available in ATEX version
- Beverage, pharmaceutical and industrial surface finishes available
- Available in various connection types

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Note: Seal used only to position bowl clamp arrangement.

Surface Finish Options

- Industrial Finish
  - Internal: As Welded
    Pickled & Passivated
  - External: Polished 0.8 µm Ra
- Beverage Finish
  - Internal: Polished 0.4 µm Ra
  - External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  - Internal: Polished 0.4 µm Ra
    and Electropolished
  - External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Design Basis

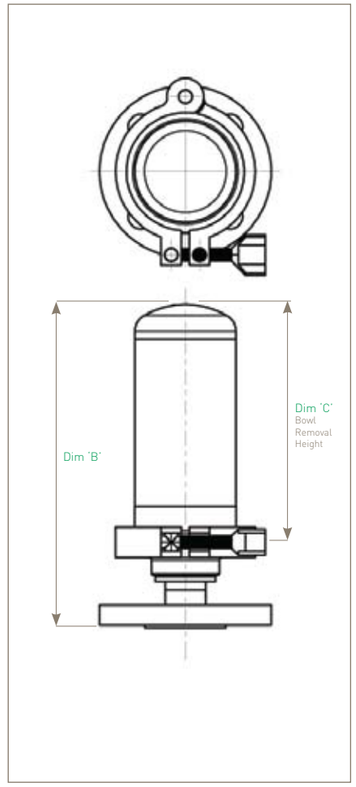
ATEX 94/9/EC *(where applicable)*

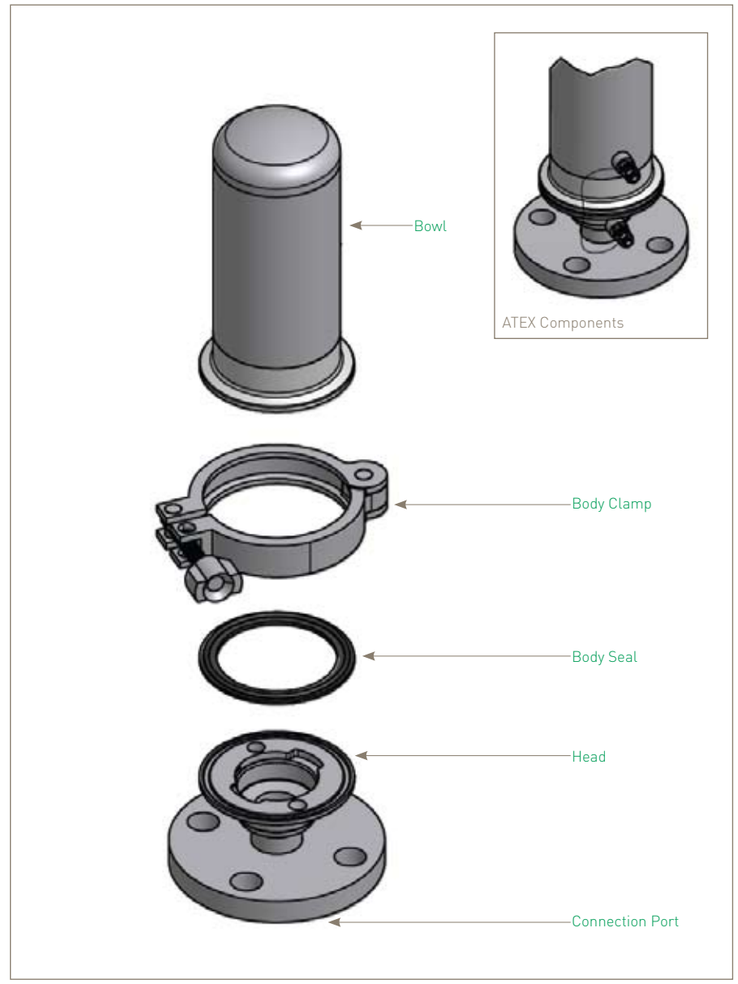
Working Condition PED 97/23/EC			Volume (litres)	
Variant	State	Temperature	01A	01B
Standard	Gas / Vapour	150 °C (302 °F)	0.75	0.5
ATEX	Gas / Vapour	135 °C (275 °F)	0.75	0.5

Physical Characteristics

Bowl Height	Dimensions (mm) 'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	203	130	1.7
B Size 2 1/2" (65 mm)	148	70	1.6

Dimensions are based on illustration shown (HSVDH01ABFTE-P-X).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSV [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	
DH	Standard
AT	ATEX

Code | Length (Nominal)		
A	5"	(125 mm)
B	2 1/2"	(65 mm)

Code | Connection Size	
B	1"

Code | Standard	
B	BSPP (F)
D	DIN11851
F	ANSI RF150
L	BS4504
	DIN2633
N	NPT (F)
T	Tri-Clamp

Code | Cartridge	
T	126

Code | Seal	
E	EPDM
P	PTFE
S	Silicone
V	Viton

Code | Surface Finish	Internal	External
B Beverage	0.4 µm	0.25 µm
I Industrial	As Welded	0.8 µm
P Pharmaceutical	0.4 µm EP	0.25 µm

Code | Tagged	
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

Demi HSL Filter Housing

- sanitary liquid

- Single element sanitary liquid housing
- Sanitary tri-clamp, vent and drain connections as standard
- Sanitary tri-clamp body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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

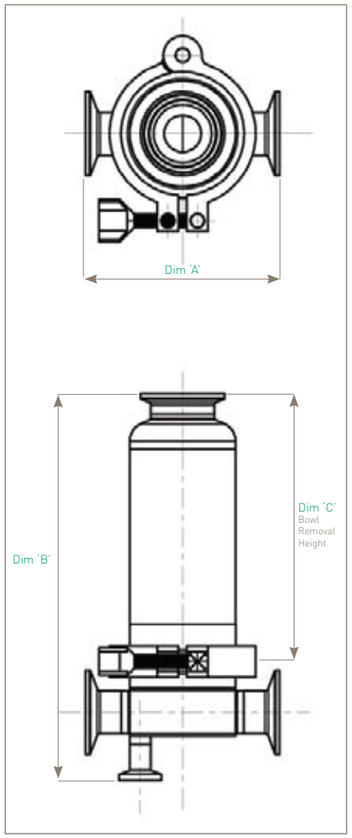
ASME VIII Division 1.

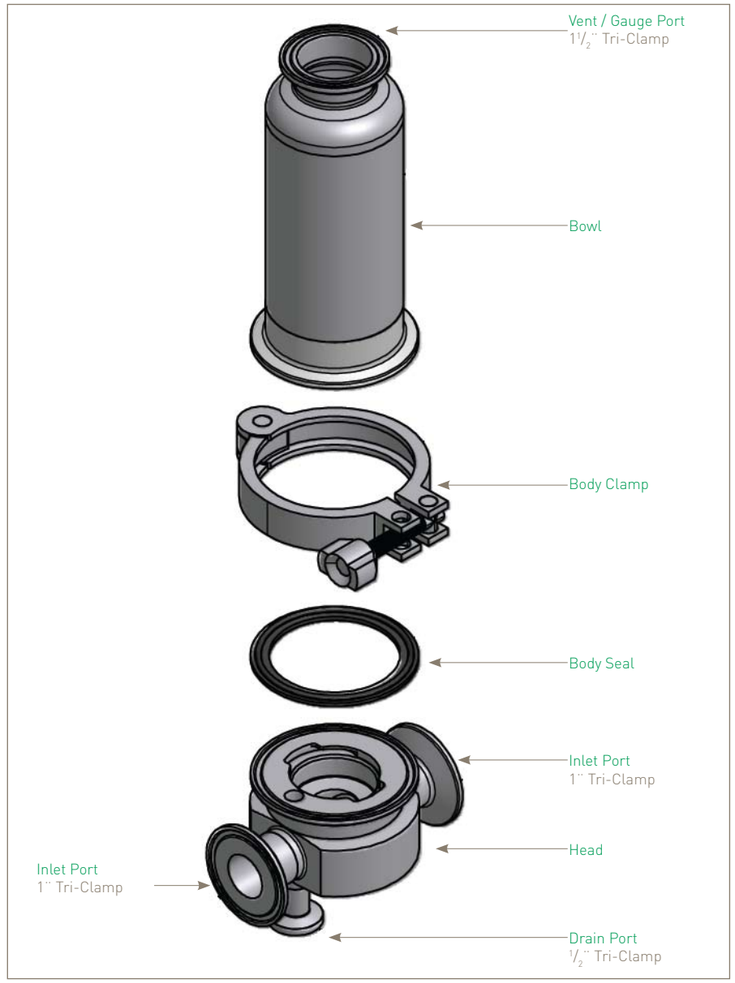
Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	117	191	130	2.0
B Size $2^1/_2$" (65 mm)	117	136	70	1.8

Dimensions are based on illustration shown (HSLCE01ABT-T-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSL [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	A 5" (125 mm) B $2^1/_2$" (65 mm)	B 1"	T Tri-Clamp	T 216	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range. Please see HSL⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HSL⊕ Filter Housing

- sanitary liquid

- Single element sanitary liquid housings
- Available in 3 different housing classes: Atex, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Wide range of connection, vent and drain options available

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish Options

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

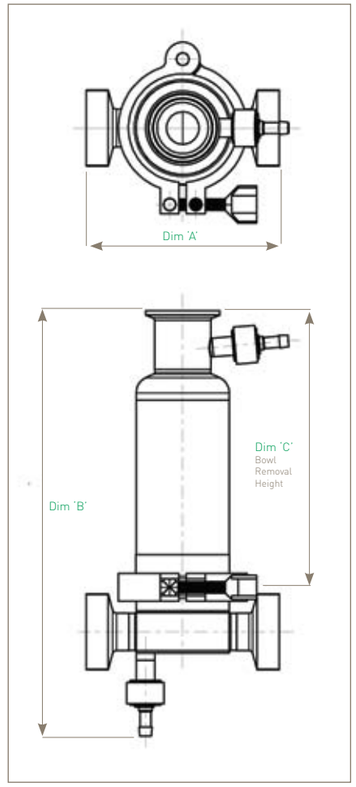
CE Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

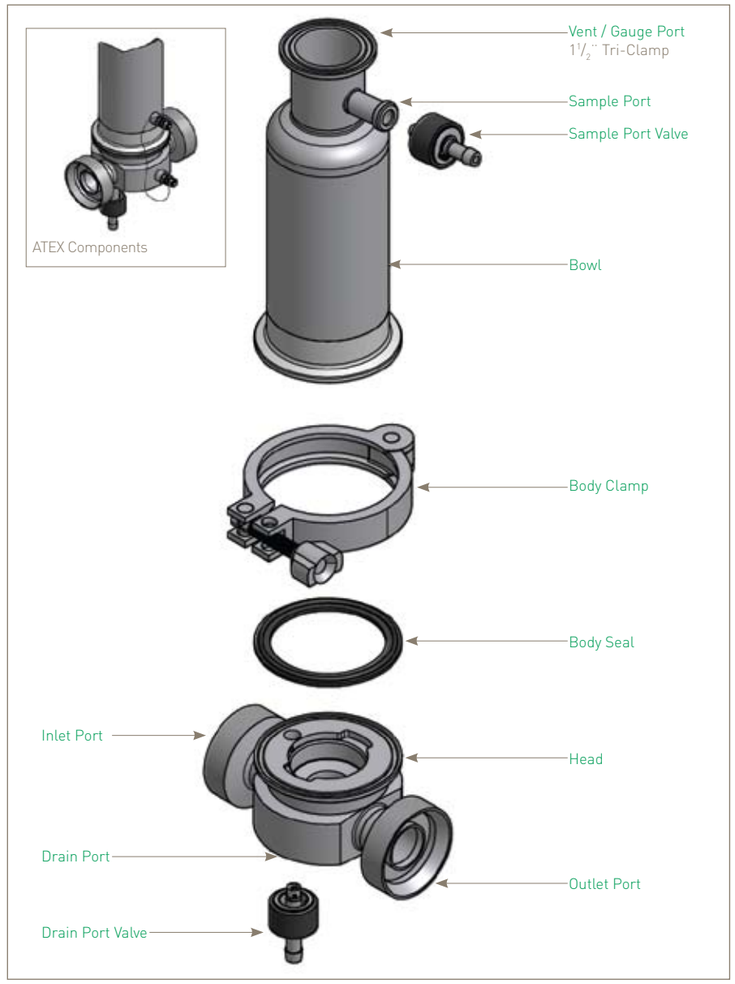
High Pressure Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous	Gas / Vapour Liquid	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	132	290	130	2.3
B Size 2 1/2" (65 mm)	132	235	70	2.2

Dimensions are based on illustration shown (HSLCE01ABDTE-HH-P-X).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSL [ ] 01 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code	Vessel Class
AT	ATEX
CE	Standard
HP	High Pressure

Code	Length (Nominal)
A	5" (125 mm)
B	2 1/2" (65 mm)

Code	Connection Size
B	1"

Code	Standard
D	DIN11851
F[1][2]	ANSI RF 150
H[2]	ANSI RF 300
L	BS4504
	DIN2633
R	RJT
S	SMS Union (M)
T	Tri-Clamp
W	ISO / BS Pipe

[1] *Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.*
[2] *Only available in 3/4".*

Code	Cartridge
T	126

Code	Seal
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code	Vent
A	1 1/2" TCF & 2 x Rectus 21
B	1 1/2" TCF & 2 x Staubli RBE03
H	1 1/2" TCF & Hosebarb
I	1 1/2" TCF & Staubli RBE03
M	1 1/2" TCF & 1/2" TCF
R	1 1/2" TCF & Rectus 21
S	Staubli RBE03
T	1 1/2" TCF Only

Code	Drain
H	Hosebarb Inlet Only
R	Rectus 21 Inlet Only
S	Staubli RBE03
T	1/2" TCF Inlet Only
X	No Drain

Code	Surface Finish	Internal	External
B	Beverage	0.4 µm	0.25 µm
P	Pharmaceutical	0.4 µm EP	0.25 µm

Code	Tagged
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

Demi HSI Filter Housing

- in-line sanitary liquid

- In-line sanitary liquid housing
- High quality crevice free construction
- Sanitary body closure as standard

Specification

Materials of Construction

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

Surface Finish

- Internal: Polished 0.4 µm Ra
- External: Polished 0.25 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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

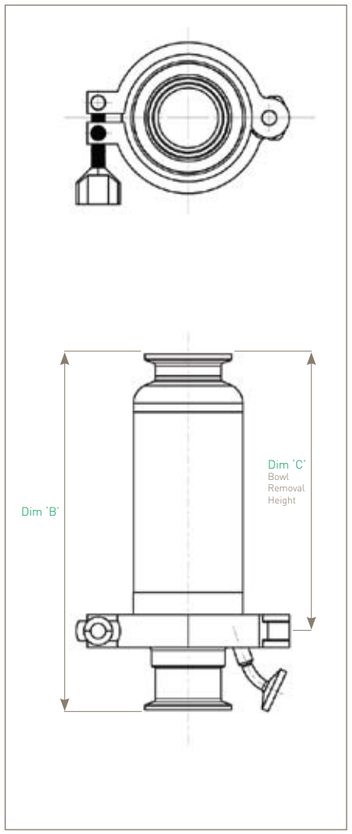
ASME VIII Division 1.

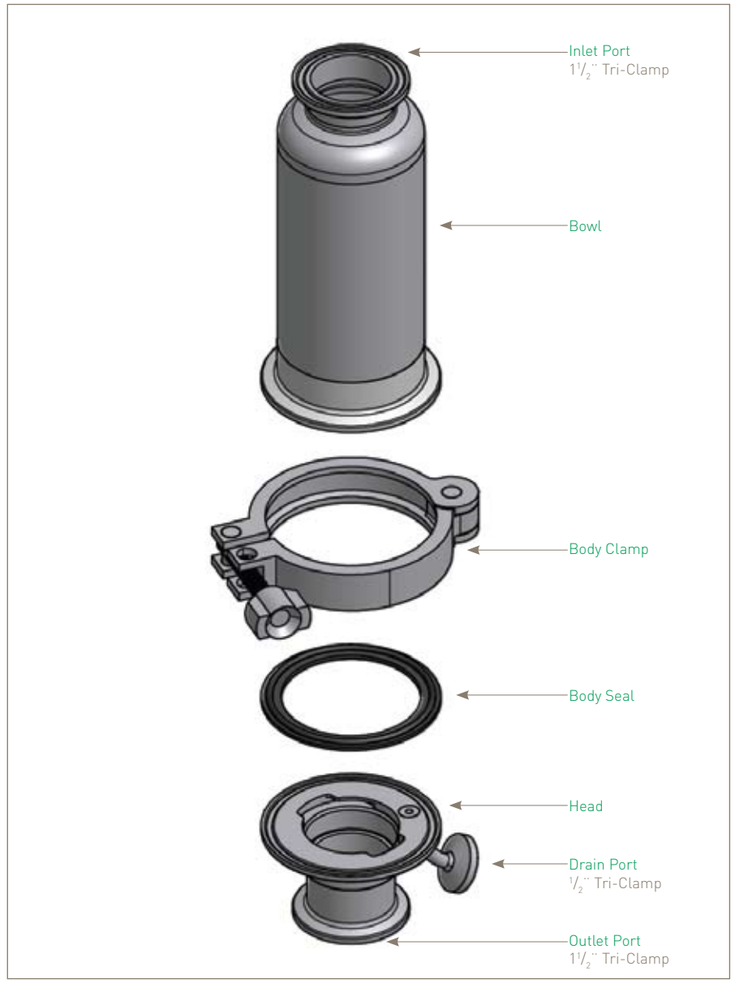
Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Liquid / Gas	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	207	130	1.0
B Size 2 1/2" (65 mm)	152	70	0.8

Dimensions are based on illustration shown (HSICE01AYT-T-S).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSI □ 01 □ □ □ - □ - □

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	A 5" (125 mm) B 2 1/2" (65 mm)	Y 1 1/2"	T Tri-Clamp	T 216	S Silicone

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HSI® datasheet for more information.

Demi HSI⊕ Filter Housing

- in-line sanitary liquid

- In-line sanitary liquid housing
- Available in 3 different housing classes: Atex, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Sampling and drain port options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA

Surface Finish Options

- Beverage Finish
  Internal: Polished 0.4 µm Ra
  External: Polished 0.25 µm Ra
- Pharmaceutical Finish
  Internal: Polished 0.4 µm Ra and Electropolished
  External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

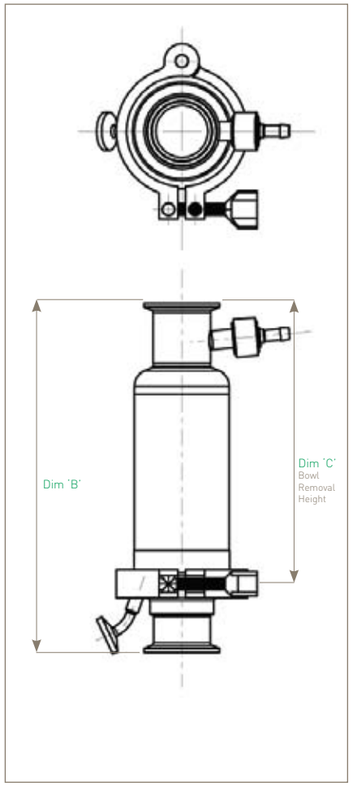
CE Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

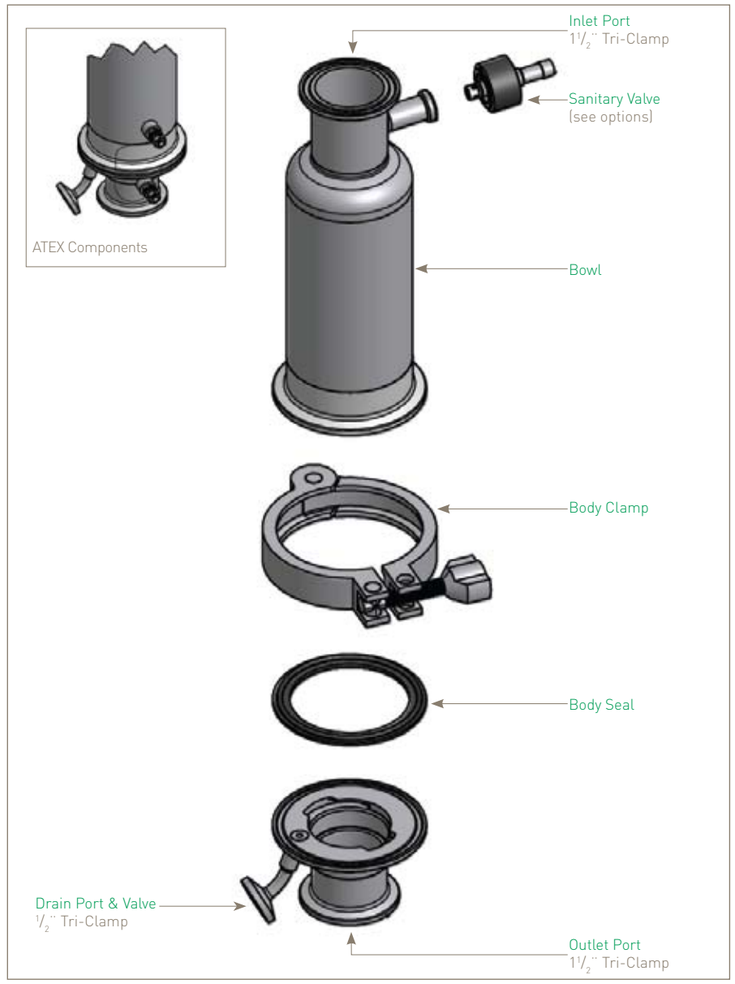
High Pressure Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous	Gas / Vapour Liquid	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	235	130	1.0
B Size 2 1/2" (65 mm)	179	70	0.9

Dimensions are based on illustration shown (HSICE01YTTE-HH-P-X).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HSI [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code | Vessel Class	
AT	ATEX
CE	Standard
HP	High Pressure

Code | Length (Nominal)	
A	5" (125 mm)
B	2 1/2" (65 mm)

Code | Connection Size	
Y	1 1/2"

Code | Standard	
T	Tri-Clamp

Code | Cartridge	
T	126

Code | Seal	
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code | Vent	
H [1]	1 1/2" TCF & Hosebarb
I [1]	1 1/2" TCF & Staubli RBE03
M [1]	1 1/2" TCF & 1/2" TCF
R [1]	1 1/2" TCF & Rectus 21
X	No Vent

[1] Vent is part of inlet connection

Code | Drain	
H	Hosebarb
R	Rectus 21
S	Staubli RBE03
T	1/2" TCF
X	No Drain

Code | Surface Finish	Internal	External
B Beverage	0.4 µm	0.25 µm
P Pharmaceutical	0.4 µm EP	0.25 µm

Code | Tagged	
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

Demi HIF Filter Housing

- industrial air / liquid

- Industrial single element air / liquid housing
- $^{1}/_{2}$" BSPP or NPT inlet / outlet standard connections
- Suitable replacement for plastic housings
- Suitable for Parker domnick hunter 'Z' style 116 'O' rings

Specification

Materials of Construction

- Housing: 316L Stainless Steel (Cast Head)
- Body Seal: EPDM FDA
- Vent / Drain Seal: PTFE FDA

Surface Finish

- Internal: Unpolished 1 µm Typical
- External: Polished 0.8 µm Ra

All finishes pickled & passivated.

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

Material Test Certification

EN10204 3.1 supplied upon request.

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

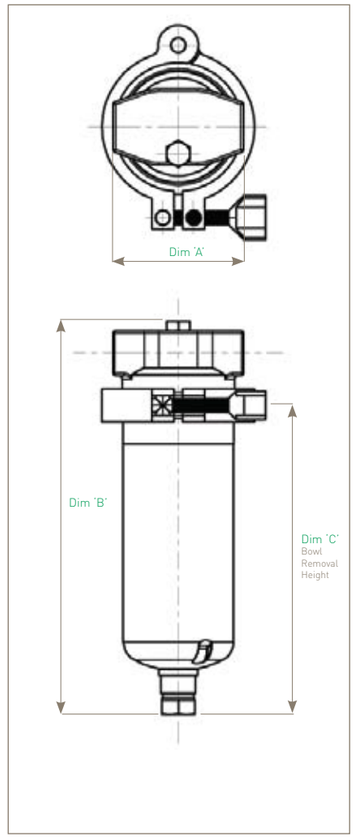
ASME VIII Division 1.

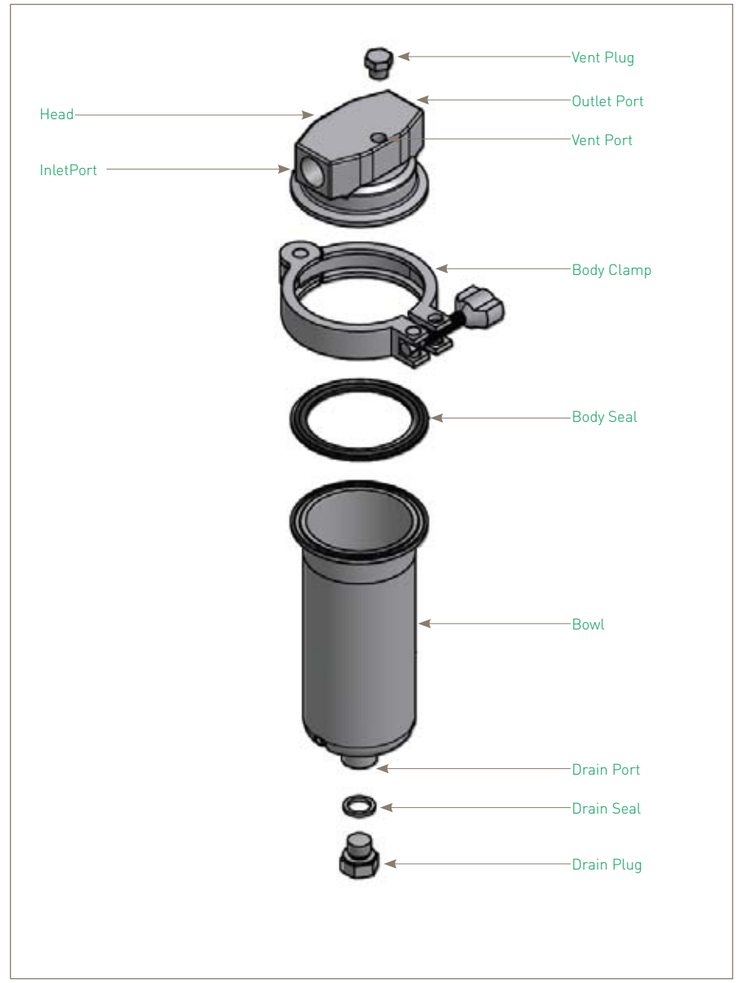
Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Liquid / Gas	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	75	226	130	1.5
B Size $2^{1}/_{2}$" (65 mm)	75	171	70	1.4

Dimensions are based on illustration shown (HIFCE01AAB-Z-E).
For accurate dimensions, please contact Parker domnick hunter.





Ordering Information

HIF [ ] 01 [ ] [ ] [ ] - [ ] - [ ]

Code | Vessel Class	Code | Length (Nominal)	Code | Connection Size	Code | Standard	Code | Cartridge	Code | Seal
CE Standard	A 5" (125 mm) B $2^{1}/_{2}$" (65 mm)	A $^{1}/_{2}$"	B BSPP N NPT	Z 116	E EPDM

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

For additional features, Parker domnick hunter offer this housing as part of its Standard PLUS Range.
Please see HIF⊕ datasheet for more information.

ENERGOEKONOM spol. s r.o.

Parker

dh domnick hunter

Demi HIF⊕ Filter Housing

- industrial air / liquid

- Industrial single element air / liquid housing
- Available in 3 different housing classes: Atex, CE and High Pressure
- Industrial and industrial-electropolished surface finishes available
- Suitable for Parker domnick hunter 'Z' style 116 'O' rings

Specification

Materials of Construction

- Housing: 316L Stainless Steel (Cast Head)
- Body Seal: EPDM FDA, PTFE FDA, Silicone FDA, Viton FDA
- Vent / Drain Seal: PTFE FDA

Surface Finish Options
Two Finishes Available:

- Industrial Finish
  Head-Cast, Pickled & Passivated
  Bowl Internal: As Welded, Pickled & Passivated
  Bowl External: Polished 0.8 µm Ra
- Industrial Electropolished Finish
  Head-Cast, Pickled, Passivated & Electropolished
  Bowl Internal: Electropolished
  Bowl External: Polished 0.8 µm Ra

Welding

All assembly welds are full penetration.
All welds are crevice and undercut free.
Weld finish & detail drawings available upon request.

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.
ATEX 94/9/EC *(where applicable)*

ATEX Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

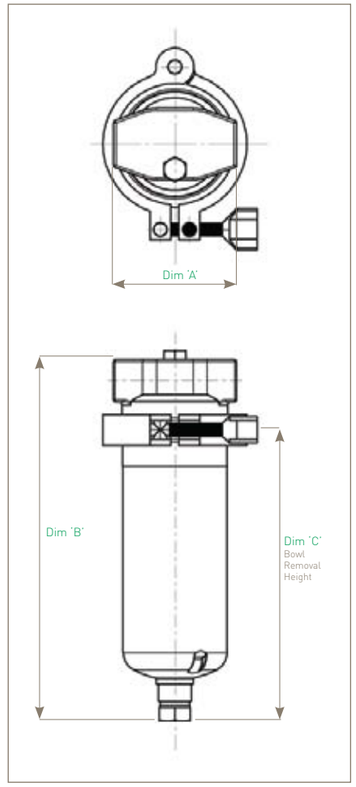
CE Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous & Dangerous	Gas / Vapour & LiquiD	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

High Pressure Working Condition PED 97/23/EC			Maximum Pressure	
Fluid Group	State	Temperature	01A	01B
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06psig)
PED Conformity Assessment Category			SEP	SEP
Volume (litres)			0.75	0.50

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
A Size 5" (125 mm)	75	226	130	1.5
B Size 2 1/2" (65 mm)	75	171	70	1.4

Dimensions are based on illustration shown (HIFCE01AABZS-BB-E-X).
For accurate dimensions, please contact Parker domnick hunter.




ATEX Components

Ordering Information

HIF [ ] 01 [ ] [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] - [ ]

Code | Vessel Class	
AT	ATEX
CE	Standard
HP	High Pressure

Code | Length (Nominal)	
A	5" (125 mm)
B	2 1/2" (65 mm)

Code | Connection Size	
A	1/2"
X	3/8"

Code | Standard	
B	BSPP (F)
N	NPT (F)

Code | Cartridge	
Z	116

Code | Seal	
E	EPDM
P*	PTFE
S	Silicone
V	Viton

** Double bolted clamp required*

Code | Vent	
B	1/4" BSPP
N	1/4" NPT

Code | Drain	
B	1/4" BSPP
N	1/4" NPT

Code | Surface Finish	Internal	External
E Industrial Electropolished	Electropolished	Linished 0.8 µm
I Industrial	As Welded	Linished 0.8 µm

Code | Tagged	
T	Yes
X	No

For Tagged Options customer identification numbers required at time of ordering

Multi Housings

3 to 30 multi round cartridge housings

ZVA - Sanitary range air / gas housing
Specifically designed for the pharmaceutical industry

VSL - Multi-element sanitary liquid housing
Designed specifically for the pharmaceutical industry

VIL - Multi-element industrial liquid housing
General purpose industrial housing

VSH - Multi-element liquid housing
Designed for prefiltration & clarification applications

VIS - High flow steam
Specifically designed for steam filtration

Parker domnick hunter

ZVA Housings

- air / gas

- Sanitary range air / gas housing
- Specifically designed for the Pharmaceutical industry
- Laboratory and pilot scale to large industrial applications
- Flow efficient design with low pressure drop
- Steam jacketed and electrically heated options

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM

Surface Finish

- Multis - Basic Specification
  - Internal: Inside of outlet assy and distribution box to be mechanically polished 0.8 µm Ra. Immerse entire vessel to achieve 100% pickle and passivation.
  - External: Grit blast 5 µm Ra mean
- Multis - Full Specification
  - Internal: Electropolish 0.6 µm Ra
  - External: Bright Polished 0.4 µm Ra

Maximum Allowable Working Pressure (MAWP) PS

6 barg (87.0 psig)

Maximum Allowable Working Temperature (MAWT) TS

120 °C (248 °F)

Maximum Allowable Working Pressure Steam

3 barg (43.5 psig) @ 144 °C (291 °F)

Total Volume (litres)

031	032	033
31.0	40.0	49.0
051	**052**	**053**
45.0	58.0	72.0

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. PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

ASME VIII Division 1.

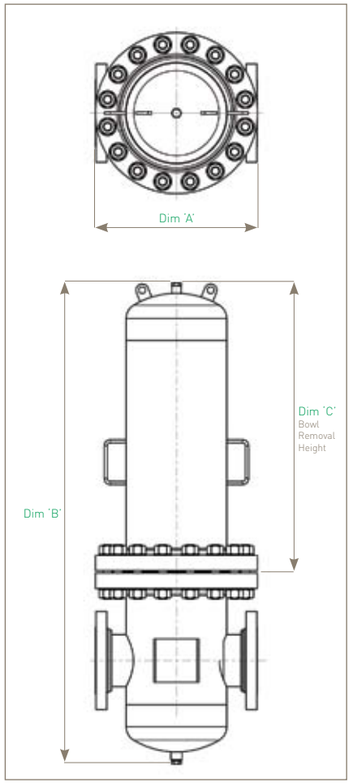
Custom Design

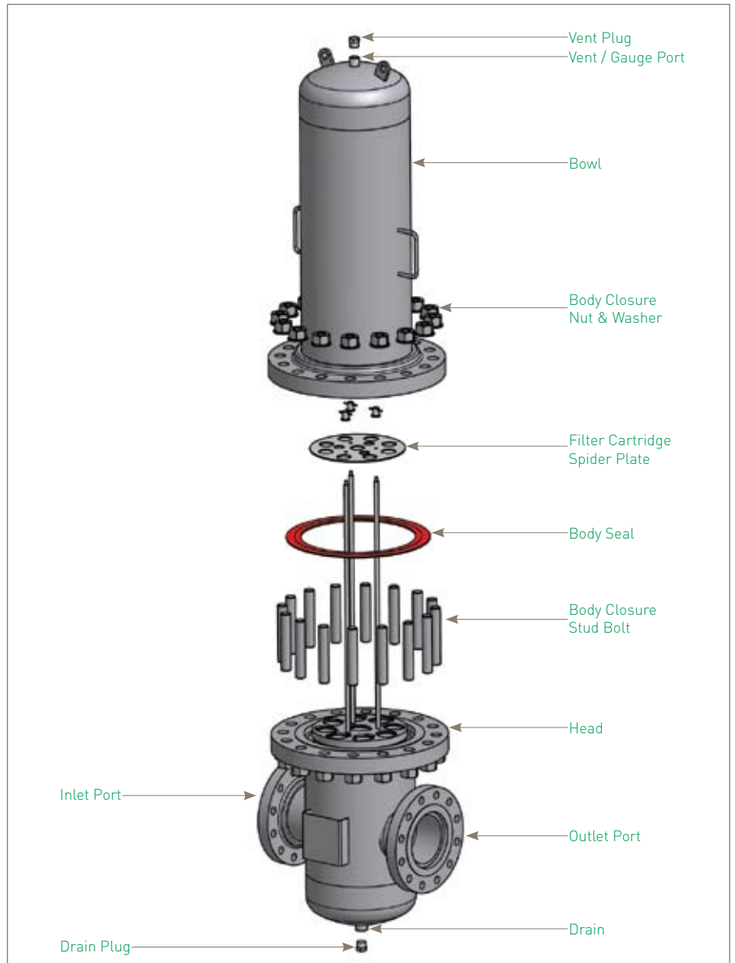
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

Physical Characteristics

Bowl Height	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
10" (250 mm)	336	794	320	43.0
20" (500 mm)	336	1044	570	47.0
30" (750 mm)	336	1294	820	50.0

Dimensions shown are for a ZVACE 3 round, 3" ANSI inlet / outlet connections. For the full range of dimensions and weights, please contact Parker domnick hunter.





Ordering Information

ZVA [ ] [ ] - [ ] - [ ] [ ] [ ] - [ ] - [ ]

Code	Vessel Class
CE	Standard

Code	N° of Cartridges
03	3
05	5
09	9
15	15

Code	Length (Nominal)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)

Code	Connection Size
D	3"
E	4"
G	6"
H	8"

Code	Connection Type
F	Flanged
W	Weld Prepared

Code	Connection Standard
A	NPT / ANSI
N	Nominal Bore
I	ISO

Code	Vent / Drain Conn. Type
B	BSPP

Code	Surface Finish
C	Economy Spec
F	Full Spec

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

VIS Housings

- high flow steam

- Specifically designed to maximise flow rates and minimise pressure drop
- Compatible with JUMBO element to maximise steam capacity

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM

Surface Finish

- Internal: Inside of outlet and distribution box to be mechanically mirror polished 0.8 µm Ra. Immerse vessel to achieve 100% pickle and passivation.
- External: Grit blast 5 µm Ra mean

Maximum Allowable Working Pressure (MAWP) PS

7 barg (101.5 psig)

Maximum Allowable Working Temperature (MAWT) TS

170.5 °C (339 °F)

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. PED / PER Conformity assessments based on Fluid Group 2 Gas (harmless) allowing for in-situ steam sterilisation. Only housings over PS.V 50 bar / litres bear the CE mark.

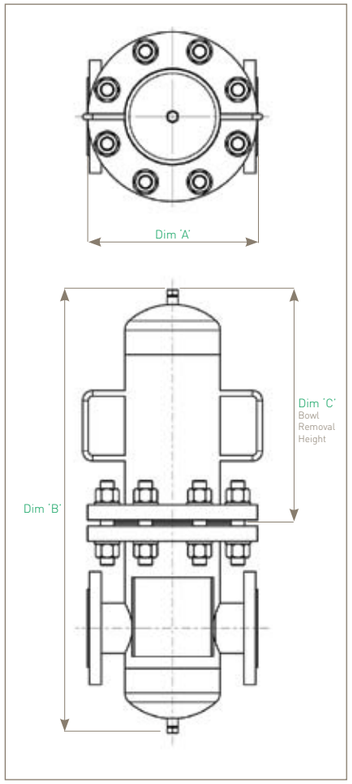
Design Basis

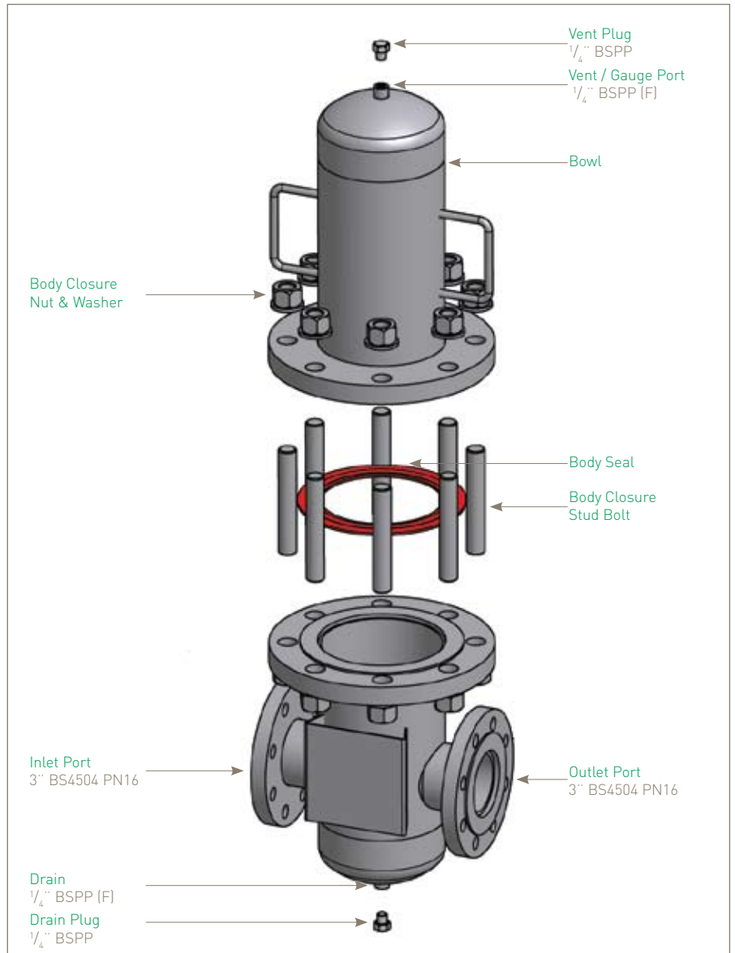
ASME VIII Division 1.

Physical Characteristics

Type	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
VISCE-01J -DD	300	763	310	30.0
VISCE-01J -ED	330	895	140	50.0
VISCE-3J -DD	515	1049	410	100.0
VISCE-3J -ED	700	1237	490	150.0

For the full range of dimensions and weights, please contact Parker domnick hunter.





Ordering Information

VIS [ ] - [ ] [ ] - [ ] [ ]

Code | Vessel Class		Code | N° of Cartridges		Code | Length (Nominal)		Code | Connection Size		Code | Connection Type	
CE	Standard	01	1	J	Jumbo	D*	3"	D	BS4504 PN16 Flange
		03	3			E*	4"	A	ANSI cl. 150 Flange
						G**	6"		
						H**	8"		

* Single housings only
** Round housings only

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

VSL Housings

- sanitary liquid

- Multi-element sanitary liquid housing
- Designed specifically for the pharmaceutical industry
- Electropolished internal finish

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM

Surface Finish

- Internal: Electropolished 0.4 µm Ra
- External: Polished 0.25 µm Ra

Economy Spec

An economy version is available with a lower specification, external linished to 0.8 µm Ra.

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. PED / PER Conformity assessments based on Fluid Group 2 Gas (harmless) allowing for in-situ steam sterilisation. Only housings over PS.V 50 bar / litres bear the CE mark.

Design Basis

ASME VIII.

Custom Design

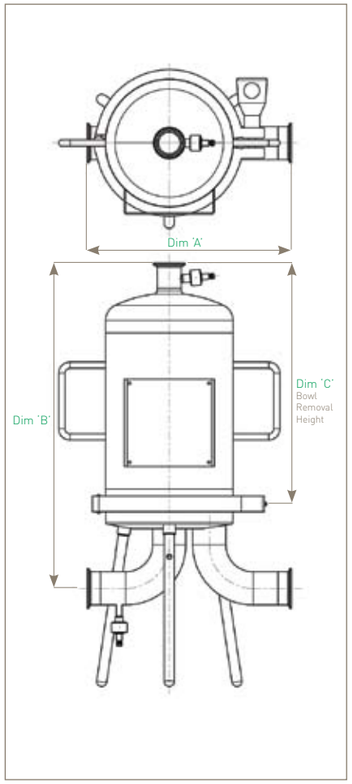
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

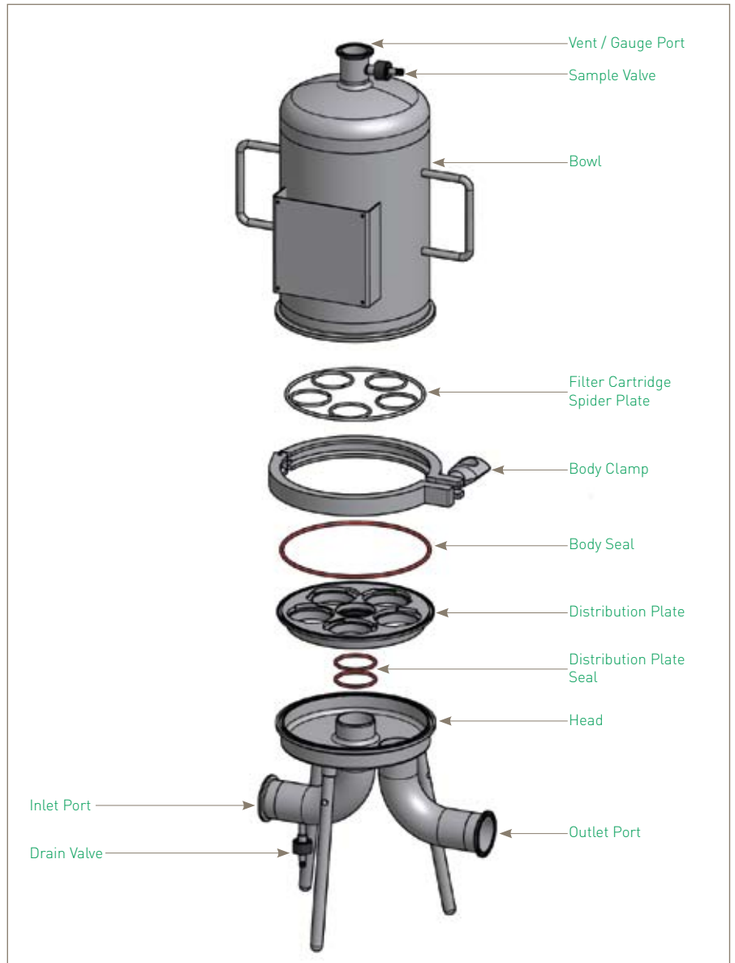
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	3 / 5 Round	3 / 5 Round	3 / 5 Round
Non Dangerous	Liquids	80 °C (176 °F)	7.00 barg (101.50 psig)	7.00 barg (101.50 psig)	7.00 barg (101.50 psig)
Dangerous / Non Dangerous	Gas / Vapour	144 °C (297 °F)	3.00 barg (43.50 psig)	3.00 barg (43.50 psig)	3.00 barg (43.50 psig)
PED Conformity Assessment Category			CAT I	CAT II	CAT II
Volume (litres)			10.7	18.5	26.3

Physical Characteristics

Type	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
10" (250 mm)	271	493	320	18.0
20" (500 mm)	271	743	570	22.0
30" (750 mm)	271	993	820	26.0

Dimensions shown are for a 3 Round VSL, 2" TCF inlet / outlet connections. For the full range of dimensions and weights, please contact Parker domnick hunter.





Ordering Information

VSL [ ] [ ] [ ] - [ ] [ ] [ ] - [ ] [ ]

Code | Vessel Class	Code | N° of Cartridges	Code | Length (Nominal)	Code | Connection Size	Code | Connection Type	Code | Connection Standard	Code | Connection Type	Code | Seal
CE Standard	03 3 05 5	1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm)	C 2"	T Tri-Clamp	B British Standard D DIN 07* Economy Series	B Sanitary Bleed T Tri-Clamp	E EPDM P PTFE S Silicone V Viton

**Code finishes here, no mention of drain and seals*

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

VIL Multi Filter Housing

- industrial multi liquid

- Multi-element industrial liquid housing
- Laboratory and pilot scale to large industrial applications
- Flow efficient design with low pressure drop

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM

Surface Finish

- Internal / External:
  - DOE Economy: As fabricated then pickled to remove weld discolouration
  - DOE Standard: As fabricated then electropolished
  - P-7 (226) o-ring: As fabricated then electropolished

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

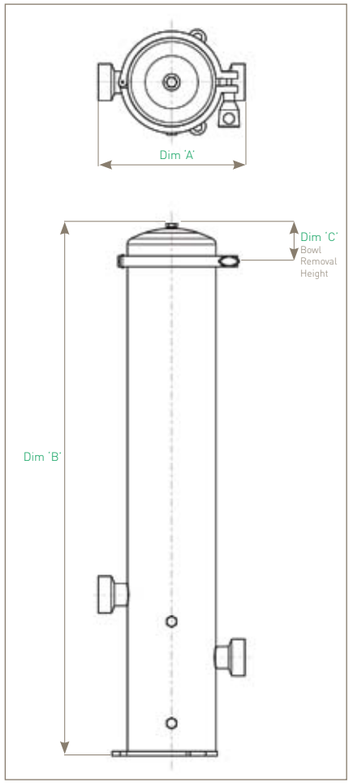
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

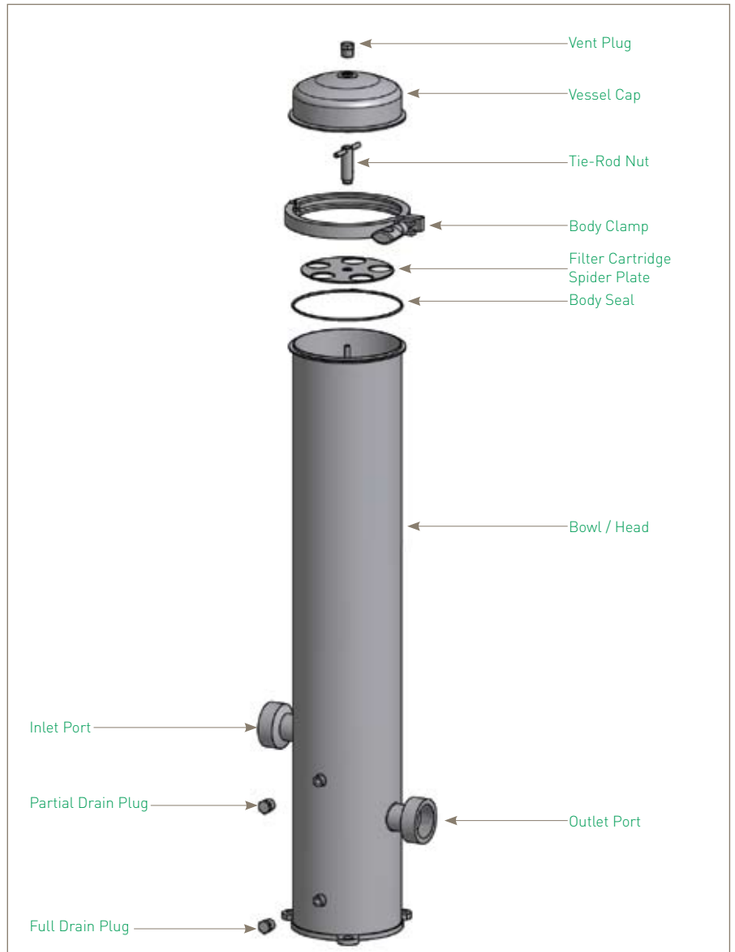
Working Condition PED 97/23/EC			Maximum Pressure		
Fluid Group	State	Temperature	3 / 5 Round	8 Round	12 Round
Non Dangerous	Liquids	80 °C (176 °F)	10.00 barg (145.00 psig)	8.50 barg (123.00 psig)	6.00 barg (87.00 psig)
PED Conformity Assessment Category			SEP	SEP	SEP
Volume (litres)			031	032	033
			14.0	19.0	24.0
			051	052	053	054
			20.0	28.0	36.0	44.0
			082	083	084
			70.0	87.0	104.0
			122	123	124
			98.0	122.0	146.0

Physical Characteristics

Type	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
10" (250 mm)	222	720	70	14.0
20" (500 mm)	222	970	70	16.0
30" (750 mm)	222	1220	70	18.0
40" (1000 mm)	222	1470	70	20.0

Dimensions shown are for a 3 Round VIL, 2" BSPP inlet / outlet connections. For the full range of dimensions and weights, please contact Parker domnick hunter.





Ordering Information

VIL [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Code | Vessel Class	
CE	Standard

Code | N° of Cartridges	
03	3
05	5
08	8
12	12

Code | Length (Nominal)		
1	10"	(250 mm)
2	20"	(500 mm)
3	30"	(750 mm)
4	40"	(1000 mm)

Code | Connection Size	
C	2"
D	3"
E	4"

Code | Connection Type	
B	BSPP Female
F	Flanged
N	NPT Female

Code | Connection Style	
B	DOE
C	P-7

Code | Seals	
E	EPDM
P***	PTFE
S	Silicone
V	Viton

Code | Surface Finish	
E	Electropolished
P**	Pickled

Code | Flange Type*	
15	ANSI cl. 150
45	BS4504

Code | Cartridge Length (dh standard)	
S	Slimline L 10", 20", 30", 40"

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

*Note: * Only applicable for housings with flange connection type*
*** Pickled finish option only available for DOE housings*
**** PTFE seal option requires flanged closure*

ENERGOEKONOM spol. s r.o.

Parker domnick hunter

VSH Multi 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 sterilisable

Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: Silicone

Surface Finish

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

Steam Sterilisation

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.

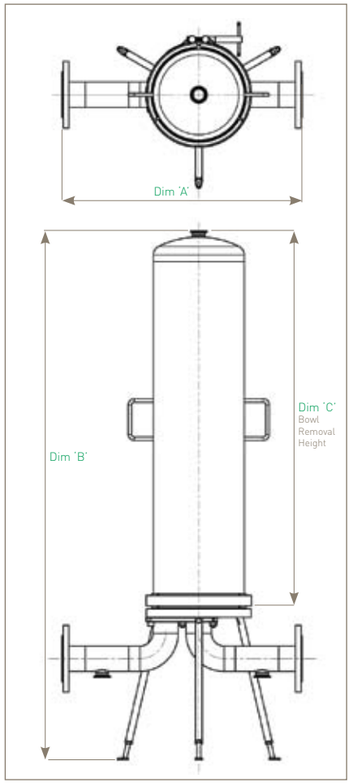
Note: For 12, 18, 24 and 30 Round options, please contact Parker domnick hunter for detailed technical drawings.

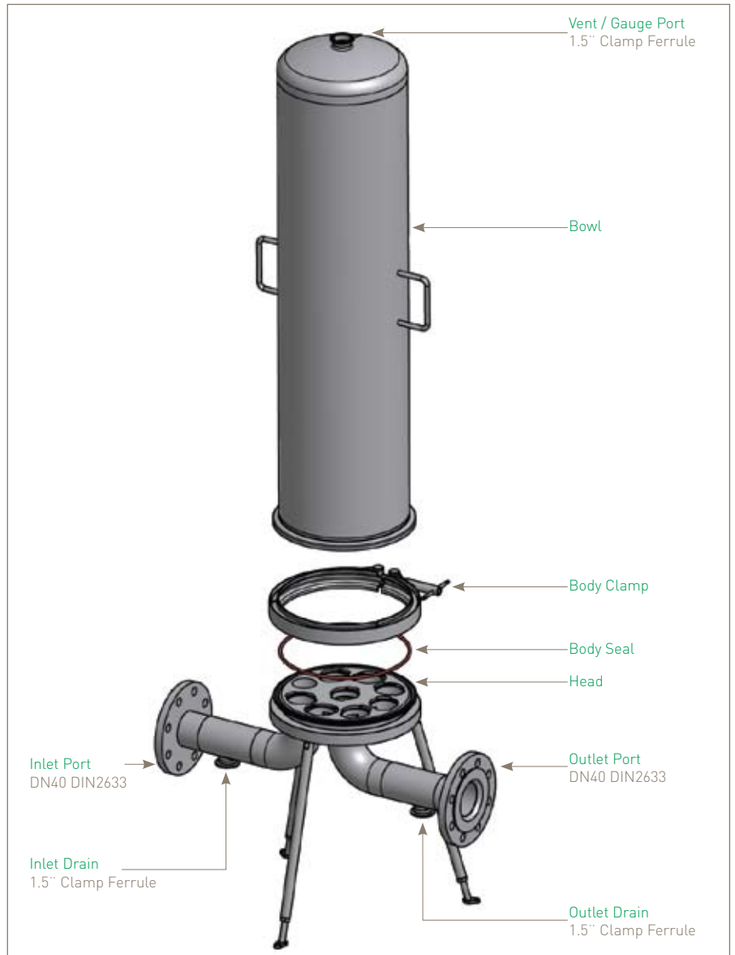
Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	**State**	**Temperature**	**031**	**032**	**033**	**034**
Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	6.80 barg (98.62 psig)	3.90 barg (56.56 psig)	2.80 barg (40.61 psig)	2.10 barg (30.45 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 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)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	4.50 barg (65.26 psig)	2.40 barg (34.80 psig)	1.70 barg (24.65 psig)	1.30 barg (18.85 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	9.90 barg (143.58 psig)	6.80 barg (98.62 psig)	5.20 barg (75.41 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	6.80 barg (98.62 psig)	5.20 barg (75.41 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)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Dangerous	Gas / Vapour	0 - 150 °C (0 - 302 °F)	2.30 barg (33.35 psig)	1.40 barg (20.30 psig)	1.00 barg (14.50 psig)	0.70 barg (10.15 psig)
Non Dangerous	Liquid	0 - 40 °C (0 - 104 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Non Dangerous	Liquid	150 °C (302 °F)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)	7.50 barg (72.51 psig)
Non Dangerous	Gas / Vapour	0 - 40 °C (0 - 104 °F)	9.40 barg (136.33 psig)	5.60 barg (81.22 psig)	4.00 barg (58.01 psig)	3.10 barg (44.96 psig)
Non Dangerous	Gas / Vapour	150 °C (302 °F)	7.50 barg (72.51 psig)	5.60 barg (81.22 psig)	4.00 barg (58.01 psig)	3.10 barg (44.96 psig)
Volume (litres)			21.3	35.3	49.7	63.9
PED Conformity Assessment Category			CAT I	CAT I	CAT I	CAT I

Physical Characteristics

Type	Dimensions (mm) 'A'	'B'	'C'	Typical Weight (Kg)
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 domnick hunter.





Ordering Information

VSH [ ] - [ ] [ ] - [ ] [ ] [ ] - [ ] - [ ]

Code	Vessel Class
CE	Standard

Code	N° of Cartridges
03	3
05	5
08	8
12	12
18	18
24	24
30	30

Code	Length (Nominal)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Connection Size
B	1"
C	1.5" & 2"
X	2.5"
D	3"
E	4"

Code	Connection Type
D	DIN Male
F	Flanged
M	SMS Male
R	RJT Male
T	Tri-Clamp
W	Weld Prepared

Code	Connection Standard
A	NPT / ANSI
B	British
D	DIN
I	ISO

Code	Vent / Drain Conn. Type
T	Tri-Clamp

Code	Seal
E	EPDM
S	Silicone
V	Viton

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				✔	✔

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

Accessories

Gauges
Industry & product specific options

Valves
Comprehensive range of manual valves

Spares
Replacement parts & accessories

Certificates
Comprehensive range of supporting documentation

Gauges

Parker domnick hunter provide a comprehensive range of pressure gauges to support their standard air / gas and liquid housings.

HIL Pressure Gauge

Type	Connection	Pressure	Ordering Code
All stainless steel wetted parts with glycerine fill fluid. Design temperature 135 °C (275 °F). Cooling tower required for temperatures up to 205 °C (401 °F). See spares page 80.	$^1/_4$" BSP	0 - 10 barg	XPGSS03BS17
		0 - 16 barg	XPGSS03BS18
	$^1/_4$" NPT	0 - 10 barg	XPGSS03NP2
		0 - 16 barg	XPGSS03NP3

HBA & HIF Pressure Gauge

Type	Connection	Pressure	Ordering Code
All stainless steel wetted parts with glycerine fill fluid (includes adapter for plain $^1/_4$" BSPP connection). Design temperature 135 °C (275 °F). Cooling tower required for temperatures up to 205 °C (401 °F). See spares page 80.	$^1/_4$" BSP	0 - 10 barg	XPGSS03BS15
		0 - 16 barg	XPGSS03BS16
	$^1/_4$" NPT	0 - 10 barg	XPGSS03NP2
		0 - 16 barg	XPGSS03NP3

HSL Single & VSH Multi Pressure Gauge

Type	Pressure / Temperature	Ordering Code
Sanitary gauge with double sanitary valves and sight glass for beverage applications. Glycerine gauge fill fluid.	0 - 10 barg / 150 °C (302 °F)	XGSSS08TC1

HSL Single & VSH Multi Pressure Gauge Valve Manifold

Type	Pressure / Temperature	Ordering Code
Sanitary gauge manifold with double sanitary valves without sight glass, for applications where glass not allowed. (Manifold and quick release only. Does not include gauge, clamp and seal.)	0 - 10 barg / 150 °C (302 °F)	XMISS06TC1

HSL Single & VSH Multi Pressure Gauge

Type	Pressure / Temperature	Ordering Code
Sanitary gauge with single sanitary valve. Glycerine gauge fill fluid.	0 - 10 barg / 150 °C (302 °F)	XPGSS08TC1

Single, VSH & VSL Multi Pressure Gauge

Type	Pressure / Temperature	Ordering Code
Sanitary gauge with 1" and $1^1/_2$" tri-clamp connection and hygienic diaphragm. All stainless steel wetted parts with KN92 FDA approved fill fluid.	0 - 10 barg / 150 °C (302 °F)	XPGSS06TC4

Valves

Parker domnick hunter provide a comprehensive range of manual valves to support their standard air / gas and liquid housings.

Industrial 1 Piece Ball Valve

Type	Connection	Ordering Code
316 stainless steel 1 piece ball valve with PTFE ball. Male / female.	$^1/_4$" BSP	XVASS03BS
	$^1/_4$" NPT	XVASS03NP

2 Piece Ball Valve

Type	Connection	Ordering Code
316 stainless steel semi-sanitary ball valve. (for use on up-stream connection on sanitary liquid beverage or pharamceutical housings	1 / $1^1/_2$" Tri-Clamp - 20 mm Hosebarb	XVASS06TC

Butterfly Valves

Type	Variant	Ordering Code
Stainless steel butterfly valve with silicone seals and polymer handle.	1" OD x 1.6 Weld End	XVASS05OD1/VHPL
	$1^1/_2$" OD x 1.6 Weld End	XVASS06OD1/VHPL
	2" OD x 1.6 Weld End	XVASS07OD1/VHPL
	$2^1/_2$" OD x 1.6 Weld End	XVASS08OD1/VHPL
	3" OD x 1.6 Weld End	XVASS09OD1/VHPL
	DN25 DIN11851	XVASS05DN1/VHPL
	DN40 DIN11851	XVASS06DN1/VHPL
	DN50 DIN11851	XVASS07DN1/VHPL
	DN65 DIN11851	XVASS08DN1/VHPL
	DN80 DIN11851	XVASS09DN1/VHPL
	1" Tri-clamp Ferrule	XVASS05TC4/VHPL
	$1^1/_2$" Tri-clamp Ferrule	XVASS06TC4/VHPL
	2" Tri-clamp Ferrule	XVASS07TC4/VHPL
	$2^1/_2$" Tri-clamp Ferrule	XVASS08TC4/VHPL
	3" Tri-clamp Ferrule	XVASS09TC4/VHPL

Sanitary Bleed Valve

Type	Seals	Variant	Ordering Code
316 stainless steel sanitary bleed valve with Neoprene grip. Available with EPDM, Silicon, Viton or Perlast Seals. Available with Rectus 21, Staubli RBE03 or 8 mm hosebarb.	EPDM	Staubli RBE03 Male	XVASS30NA1
		Rectus 21 Male	XVASS30RT
		8 mm Hosebarb	XVASS30HB
	Silicone	Staubli RBE03 Male	XVASS30ST1
		Rectus 21 Male	XVASS30RT1
		8 mm Hosebarb	XVASS30HB1
	Viton	Staubli RBE03 Male	XVASS30NA4
		Rectus 21 Male	XVASS30RT2
		8 mm Hosebarb	XVASS30HB2
	Perlast	Staubli RBE03 Male	XVASS30NA2
		Rectus 21 Male	XVASS30RT3
		8 mm Hosebarb	XVASS28SL15

Sample Valve

Type	Connection	Ordering Code
316 stainless steel sanitary valve with 1" / $1^1/_2$" tri-clamp connection and 12 mm hosebarb. For use on down-stream connection on sanitary liquid housings.	1 / $1^1/_2$" Tri-Clamp - Stepped 12 mm Hosebarb	XVASS05TC3

Gemu Diaphragm Valve

Type	Connection	Variant	Ordering Code
316 stainless steel sanitary diaphragm valve with $^1/_2$" (miniclamp) tri-clamp connection and silicone or EPDM diaphragm.	$^1/_2$" (miniclamp) tri-clamp	Silicone	XVASS04TC6
		EPDM	XVASS04TC1
		Viton	XVASS04TC7
		PTFE	XVASS04TC8

Spares

Parker domnick hunter provide a comprehensive range of spare parts to support their standard air / gas and liquid housings.

4" Spares	
Size & Type	**Part Code**
4" Single Pin Tri-Clamp 4" Double Bolt Tri-Clamp	XTCSS10SL XTCSS10HP15
4" TCF Gasket EPDM 4" TCF Gasket Silicone 4" TCF Gasket Viton 4" Gasket PTFE	XTSEP10SA XGKSI3004 XTSVI10SL XTSPT10SL
HIL 222 Spring HIL DOE Nut	XSNSS07OD XNTSS01IL

2½" Spares	
Size & Type	**Part Code**
2½" Single Pin Tri-Clamp 2½" Double Bolt Tri-Clamp	XTCSS08SA XTCSS08HP
2½" TCF Gasket EPDM 2½" TCF Gasket Silicone 2½" TCF Gasket Viton 2½" Gasket PTFE	XGKEP08NA XGKSI08 XGKVI08SA XGKPT10SA

2½" & 4" Spares	
Size & Type	**Part Code**
¼" BSP Plug ¼" NPT Plug	XPLSS03BS4 XPLSS03NP1
¼" BSP PTFE Plug Seal	XGKPT03BP
ATEX Earth Kit (Replacement)	XEKSS00AT
1½" Tri-Clamp Blanking Kit - EPDM 1½" Tri-Clamp Blanking Kit - Silicone 1½" Tri-Clamp Blanking Kit - Viton 1½" Tri-Clamp Blanking Kit - PTFE	XAKSS06TC6 XAKSS06TC3 XAKSS06TC7 XAKSS06TC8
½" Tri-Clamp Blanking Kit - EPDM ½" Tri-Clamp Blanking Kit - Silicone ½" Tri-Clamp Blanking Kit - Viton ½" Tri-Clamp Blanking Kit - PTFE	XAKSS04TC1 XAKSS04TC2 XAKSS04TC3 XAKSS04TC4
1½" Tri-Clamp Gasket - EPDM 1½" Tri-Clamp Gasket - Silicone 1½" Tri-Clamp Gasket - Viton 1½" Tri-Clamp Gasket - PTFE	XGKEPTC XTSSI06 XGKVI06TC2 XGKPT06TC
½" Tri-Clamp Gasket - EPDM ½" Tri-Clamp Gasket - Silicone ½" Tri-Clamp Gasket - Viton ½" Tri-Clamp Gasket - PTFE	XGKEP04TC1 XGKSI04TC XGKVI04TC XGKPT04TC
Sanitary Seal Kit - EPDM Sanitary Seal Kit - Silicone Sanitary Seal Kit - Viton Sanitary Seal Kit - Perlast	XOREP30 XORSI30 XORVI30 XORPE30NA1
1½" TC Blank 1½" TC Clamp	XTBSS05TC XTCSS05TC
½" TC Blank ½" TC Clamp	XTBSS04TC XTCSS04TC
Cooling Tower ¼" BSPP Cooling Tower ¼" NPT	XCTSS03BS XCTSS03NP

3 Round VSH Spares	
Size & Type	**Part Code**
3 Round Body 'V' Clamp	XBCSS51BL
3 Round Spider Plate	XSPSS51BL
Body O-Ring BS362 - Silicone	XORSI12BL
1½" Head to Elbow Gasket - PTFE	XGKPT06BL

5 Round VSH Spares	
Size & Type	**Part Code**
5 Round Body 'V' Clamp	XBCSS52BL
5 Round Spider Plate	XSCSS52BL
Body O-Ring BS370 - Silicone	XORSI12BL1
2" Head to Elbow Gasket - PTFE	XGKPT07

8 Round VSH Spares	
Size & Type	**Part Code**
8 Round Body 'V' Clamp	XBCSS52BL
8 Round Spider Plate	XSPSS52BL
Body O-Ring BS378 - Silicone	XORSI13BL
3" Head to Elbow Gasket - PTFE	XGKPT07

VSH Spares	
Size & Type	**Part Code**
3, 5 & 8 Round Vent and Drain Clamp / Gasket Kit	XAKSS06TC5

Certificates

Parker domnick hunter provide a comprehensive range of certificates to support their standard air / gas and liquid housings.

Certificate	
Type	**Ordering Code**
Vessel Inspection Certificate (included with vessel)	66 950 0013
Vessel Inspection Certificate (replacement)	66 950 0013
Material Certification Pack (EN10204 3.1)	66 950 0014
Certificate of Conformity	66 950 0015
Passivation Report	66 950 0016
Cleanliness Certificate	66 950 0017
Surface Finish Certificate	66 950 0018
Weld Procedure Certificate Pack	66 950 0019
Quality Plan	66 950 0026
Replacement IOMI (Installation, Operation and Maintenance Instructions)	17 950 0769

Industrial Products

Parker domnick hunter, Industrial Division, is a well established global business capable of meeting the compressed air treatment product needs of all industries. Our commitment to customer satisfaction goes beyond initial supply and installation. Comprehensive after sale support includes servicing, spare parts, quality testing and technical advice.

Bespoke design services are also available for customised projects to ensure customer specifications are met. Services are delivered locally by our global network of qualified service engineers.

LAB GAS GENERATORS
Hydrogen, nitrogen & zero air

The range of analytical gas generators from Parker domnick hunter includes UHP hydrogen, nitrogen and zero air and enables users to produce a cost-effective, continuous supply of premium quality gas from a compact, on-site source.

- Increases safety with the elimination of high pressure gas storage or cylinder handling
- Cost-effective due to low life-cycle ownership
- UHP hydrogen generators facilitate optimised analysis
- Convenient, on-demand gas supply

MAXIGAS
Nitrogen gas generators

Produces on-site nitrogen gas from compressed air and is the cost-effective alternative to traditional nitrogen sources for multiple applications. Excellent energy efficiency and a low life-cycle ownership cost facilitate considerable cost savings of up to 90%.

- Low life-cycle ownership cost and elimination of costs associated with a cylinder supply
- On-demand functionality limits waste
- Energy efficient; operates from a small compressor

MIXED GAS DISPENSERS
CO_2 & nitrogen

Designed to provide bar owners with the ideal supply of mixed gas blends of CO_2 and nitrogen for beer dispensing. The system uses a nitrogen generator which, when connected to CO_2 cylinders, can produce mixed blends of CO_2 and nitrogen in a number of predetermined ratios.

- Improved quality and economy
- Nitrogen purity of 99.8%
- A more efficient operation
- Improved shelf life

WS WATER SEPARATORS
Bulk liquid removal

Providing efficient bulk liquid removal at all flow conditions, OIL-X EVOLUTION WS Water Separators also minimise energy consumption and help reduce your carbon footprint.

- Tested in accordance with ISO8573.9
- Performance independently verified
- Low pressure loss / low operational cost

OIL-X EVOLUTION
Compressed air filters

Providing air quality that meets or exceeds the requirements of ISO8573-1, the international standard for compressed air quality, OIL-X EVOLUTION is also the most energy efficient compressed air filter in the world, helping to reduce your carbon footprint.

- The most energy efficient filters available
- High quality ISO8573.1:2001 compressed air
- Running costs that start low and stay low

CRD
Refrigeration dryers

Avoid corrosion, machinery failure and product spoilage by removing water from any compressed system at affordable prices. The CRD range provides the very latest in drying technology and is suitable for all compressor types.

- Clean, dry compressed air, stops damage and corrosion
- Environmentally friendly R407C refrigerant
- Energy efficient, low running costs

PNEUDRI
Desiccant dryers

Providing water vapour removal in accordance with Classes 1, 2 & 3 of ISO8573-1 the international standard for compressed air quality, PNEUDRI modular compressed air dryers offer unrivalled performance, flexibility and expandability in a unique space saving design. Low operational costs and integrated energy management systems also ensure energy consumption is kept to a minimum.

- Highest quality air
- Totally stops corrosion / damage
- Low installation costs
- Energy efficient

ES2000 SERIES
Oil / water separators

Providing a legal and responsible way to dispose of oil contaminated compressor condensate, ES2000 series oil water separators are a cost effective alternative to expensive waste disposable companies.

- Help to protect and maintain the environment
- Efficiently separate oil and water on-site and return up to 99.9% of the condensate to foul sewers
- Meet trade effluent discharge regulations
- Rapid payback over conventional disposal methods

BREATHING AIR PURIFIERS
Breathable air

Providing breathable quality compressed air in compliance with international standards, breathing air purifiers supply effective protection from harmful substances, maintaining employee health.

- High efficiency coalescing filter, for removal of oil / water
- Adsorption bed of activated carbon, for removal of oil vapour and odours
- Catalytic element, for removal of carbon monoxide

NBC FILTRATION
Biological & chemical protection

The need to protect key personnel from attacks by chemical and biological weapons has never been greater. Given the escalation of this type of threat from terrorist groups and unstable nations, the development of the NBC filtration system provides effective protection.

- Fully regenerative
- Increased capacity
- Compact modular design

HYPERCHILL
Precision chilled water

Hyperchill maximises productivity and minimises costs, as well as easy conformity to regulations on water quality. Hyperchill is the perfect solution to industrial chilled water needs.

- Increases productivity, reduces costs
- Adaptable to individual customer needs

PCO_2
Carbon dioxide polishing filter

Providing quality incident protection for beverage grade carbon dioxide, PCO_2 offers protection against carbon dioxide contamination and impurities of up to 10 times the allowable levels.

- Ensures compliance with quality guidelines published by the International Society for Beverage Technologies (ISBT)
- Protects drinks manufacturing processes from vapour impurities

For further information on the full range of Industrial and Gas Generation products available, please contact Parker domnick hunter Industrial Division

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