



Filtration Housings

For food and beverage applications



ENGINEERING YOUR SUCCESS.



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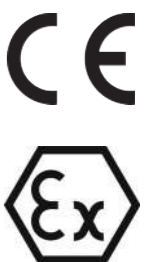
ENGINEERING YOUR SUCCESS.

Parker's filter housing range is designed both to meet international industry standards and specific customer application requirements. With over 50 years' experience designing and fabricating major systems for the food and beverage industry, a combination of practical experience with design and manufacturing excellence have gained Parker a reputation for supplying high quality products.

As a customer of Parker you have access to highly skilled engineers, trained to meet your exact product and service requirements at the highest possible standards.

Additional services include:

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



All Parker vessels adhere to manufacturing best practice
ISO9001
ISO14001

Vessels are built to meet industry standards
PED (2014/68/EU)
ATEX (2014/34/EU)



Dedicated filtration range

As well as supplying vessels, Parker supply automated filtration systems and manufacture a range of microfiltration cartridges for liquid and gas applications.

Since 1963, Parker have continually innovated to support food and beverage producers and packagers worldwide. Product ranges have been designed to deliver optimum operational performance and maintain key commitments to protecting product quality, reducing processing costs and providing specialist support.

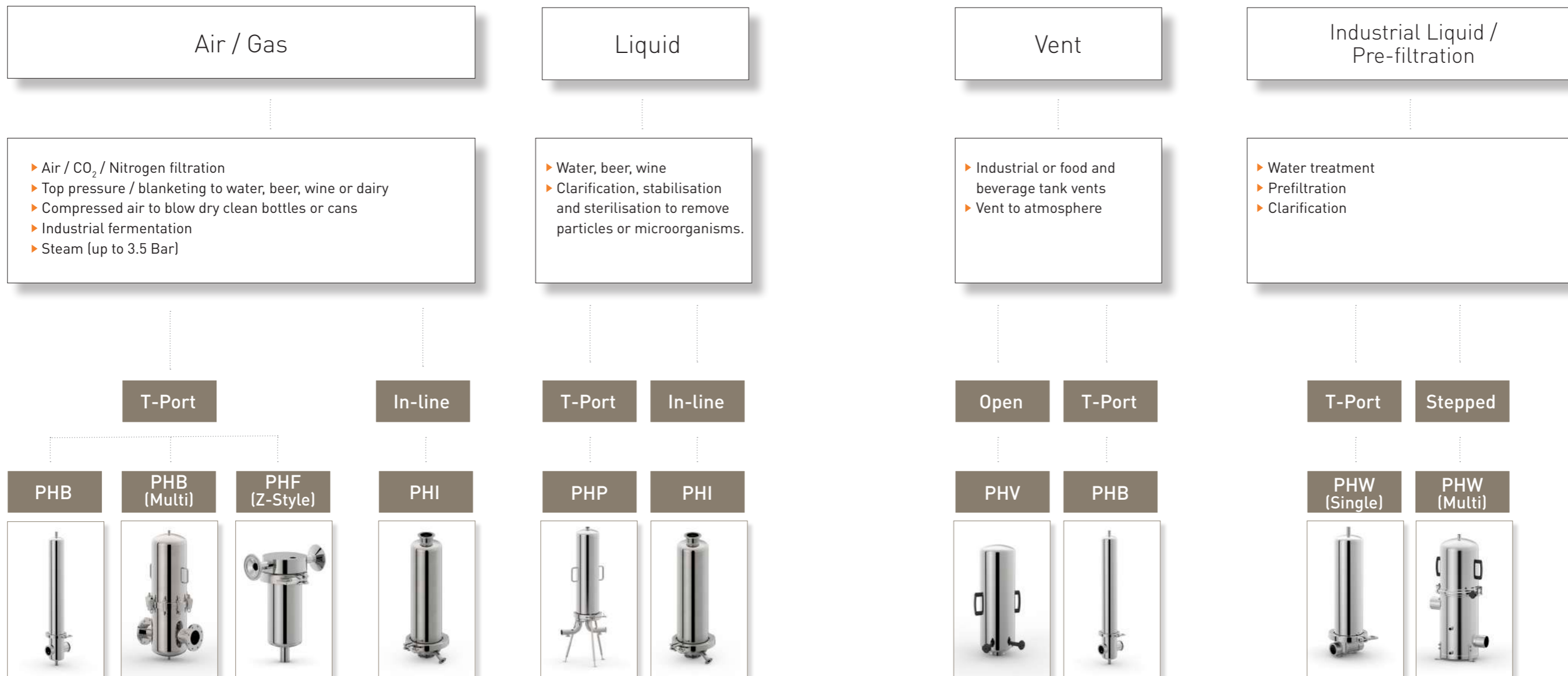
Dedicated products are available for various beverage industries including;

- ▶ Brewing
- ▶ Wine making
- ▶ Dairy
- ▶ Bottled water
- ▶ Ingredients

Supported by innovative products, state-of-the-art technical facilities and a specialized international team, Parker's capability is based on understanding the specific needs of your business and providing a total solution.

Quick reference

Standard housing range for food and beverage applications



PHP Single and Multi Housings



- ▶ Specifically designed for liquid filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- ▶ Easy handling sanitary single and multi cartridge filter housings.
- ▶ Cost effective housing without compromising quality.
- ▶ Supplied with adjustable support legs.

Applications

The PHP housing range is specifically designed for liquid applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water

Suitable for use with PED Group 2 liquid and gas.

Availability

The PHP liquid filter housing range is available for 1 to 30 round cartridges. They will accept Parker's full range of C-Style [226] or D-Style [222] liquid filter cartridges of nominal length 10" to 40".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability. All gasket materials meet FDA regulatory requirements and Food Grade EC 1935/2004 compliance.

Surface Finish

Internal surfaces are mechanically polished to <0.8µm. External surfaces are mechanically mirror polished.

Cleanability

Sanitary crevice free design and mirror polished surfaces guarantee enhanced cleanability. This range is suitable for both SIP and CIP.

Connections

The PHP range is available with a range of standard connections including ASME BPE clamp, DIN 11851 and butt weld.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	Silicone (EPDM or PTFE/FEP enc. Silicone also available)
Housing Closure:	Vee-Clamp (01, 03, 05 and 08) / Screw Clamp (12, 18, 24 and 30)
Internal Surface:	Ra <0.8µm Mechanical Polish
External Surface:	Mechanical Mirror Polish
Design Conditions:	FV to 10 Bar @ -20 to 40°C (-14 to 145 psi @ -4 to 104°F) FV to 4 Bar @ -20 to 150°C (-14 to 58 psi @ -4 to 302°F)

Ordering Information

Code	Cartridge Height	Code	Seal Material	Code	Vent Port	Code	Special Features
1	10" (250mm)	S	Silicone (1)	1	Clamp ASME BPE 1.5" (1)	None (1)	
2	20" (500mm)	E	EPDM	2	DIN 11851 DN25	LL Lifting Lugs (3)	
3	30" (750mm)	P	PTFE/FEP enc. Silicone (2)			P Plugs	
4	40" (1000mm)	V	Viton				

Code	Cartridge Number	Code	Cartridge Height	Code	Drain Port	Code	Clamp ASME BPE (1)	Code	SMS Male Part
01	1 Round	7	C-Style (226) (1)	0	No Drain	T010	1" 01 (1)	S010	1" 01
03	3 Round	8	D-Style (222)	2	1" TC (for pipe Ø25.4) / 1.5" TC (for pipe Ø38.1) (1)	T015	1.5" 01,03 (1) 05, 08	S015	1.5" 01,03, 05, 08
05	5 Round			3	DIN 11851 DN25	T020	2" 05 (1), 08 (1), 12	S020	2" 05,08
08	8 Round					T025	2.5" 08,12 (1), 18 (1), 24 (1), 30	S025	2.5" 08,12,18, 24,30
12	12 Round					T030	3" 08,12,18,24,30 (1)	S030	3" 08,12,18,24,30
19	19 Round					T040	4" 12,18,24,30	S040	4" 12,18,24,30
24	24 Round								
30	30 Round								

Code	Butt Weld ASME BPE (1)	Code	RJT Male Part
W025	Ø25.4 01 (1)	R010	1" 01
W038	Ø38.1 01,03 (1) 05	R015	1.5" 01,03, 05, 08
W051	Ø50.8 05 (1), 08 (1)	R020	2" 05,08
W063	Ø63.5 08,12 (1), 18 (1), 24 (1), 30	R025	2.5" 08,12,18, 24,30
W076	Ø76.2 08,12,18,24,30 (1)	R030	3" 08,12,18,24,30
W101	Ø101.6 12,18,24,30	R040	4" 12,18,24,30

Code	DIN 11851 Male Part (1)	Code	Flange EN1092-1
D025	DN25 01 (1)	E020	DN20 01
D040	DN40 01,03 (1) 05	E032	DN32 01,03, 05, 08
D050	DN50 05 (1), 08 (1)	E040	DN40 03,05,08
D065	DN65 08,12 (1), 18 (1), 24 (1), 30	E050	DN50 05,08,12
D080	DN80 08,12,18,24,30 (1)	E065	DN65 08,12,18,24,30
D100	DN100 12,18,24,30	E080	DN80 12,18,24,30
		E100	DN100 12,18,24,30
		E125	DN125 24,30
		E150	DN150 30

Code	Butt Weld ISO 1127-1	Code	Flange ANSI 150
W114	Ø114.3x2mm 18,24,30	A075	0.75" 01
W139	Ø139.7x2mm 24,30	A125	1.25" 01,03, 05, 08
W168	Ø168.3x2mm 30	A150	1.5" 03,05,08
		A200	2" 05,08,12
		A250	2.5" 08,12,18,24
		A300	3" 08,12,18,24
		A400	4" 12,18,24
		A500	5" 24,30
		A600	6" 30

(1) Considered standard configuration
 (2) If selected, PTFE seal material only applies for PHP01. FEP enc. Silicone applies for PHP Multi (03 to 30)
 (3) Lifting lugs are not available on PHP01 or PHP03.

For further information refer to drawings 179502687 (PHP01), 179502702 (PHP03), 179502703 (PHP05), 179502704 (PHP08), 179502705 (PHP12), 179502706 (PHP18), 179502707 (PHP24) and 179502708 (PHP30).

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Roughness Certificate 3.1 (609500345)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Accessories

Part Code	Part Number	Description
XPGSS08TC1	639503426	0 - 10 Bar pressure gauge with vent valve
XGSSS08TC1	639503425	0 - 10 Bar pressure gauge with sight glass and valve
XVASS05TC3	639503421	Sample valve (1.5" TC)
XVASS06TC	639503423	Ball valve (1.5" TC)

PHB Multi Housings



- ▶ Specifically designed for gas filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- ▶ Includes plenum chamber for condensation management.
- ▶ Available with 5 Bar or 10 Bar design pressure.
- ▶ Screw clamp closure system for added security.

Applications

The PHB multi range is specifically designed for high flow rate gas filtration applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water
- ▶ Dairy
- ▶ Industrial Fermentation

Suitable for use with PED Group 2 gas.

Availability

The PHB multi gas filter housing is available in sizes from 3 up to 32 round. These housings will accept Parker's full range of C-Style (226) gas filter cartridges of nominal lengths 10", 20" and 30".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability. All gasket materials meet FDA regulatory requirements and food grade EC 1935/2004 compliance.

Surface Finish

As standard, internal surfaces in the downstream are mechanically polished to <math><0.8\mu\text{m Ra}</math>. Internal surfaces in the upstream are as fabricated and pickled. External surfaces are shot peened.

Connections

The PHB multi round comes as standard with EN1092-1 flange or ISO 1127-1 butt weld connections. Vent and drain ports are 1/2" BSPF and are supplied with plugs as standard.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

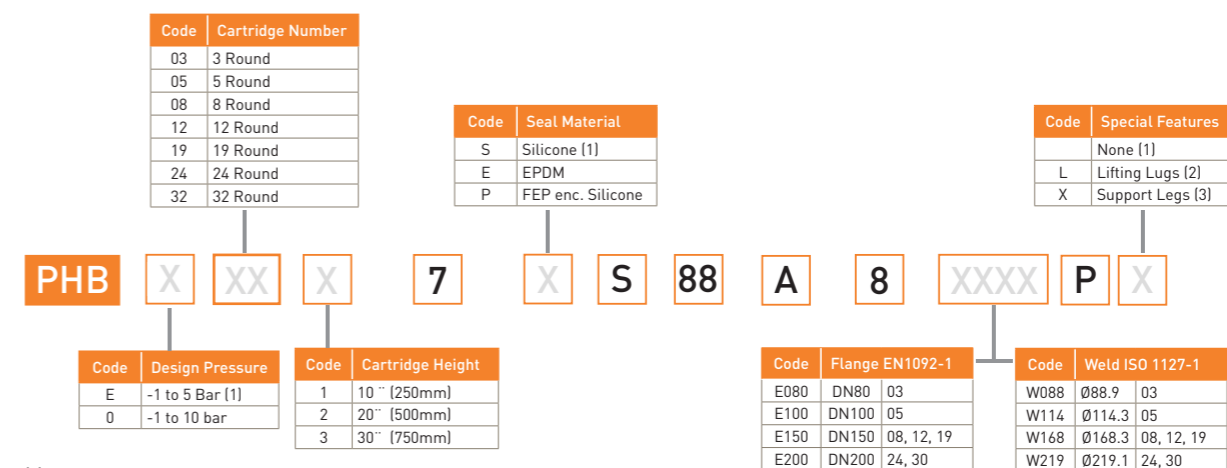
Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	Silicone (EPDM or FEP enc. Silicone also available)
Housing Closure:	Screw Clamps
Number of Cartridges:	03, 05, 08, 12, 19, 24 & 32
Cartridge Height:	10", 20" and 30"
Cartridge Location:	C-Style (226)
Internal Surface (Downstream):	Ra <math><0.8\mu\text{m}</math> Mechanical Polish
Internal Surface (Upstream):	Pickled
External Surface:	Shot Peened
Design Conditions:	FV to 5 Barg @ 150°C (-14 to 72.5 psi @ 302°F) FV to 10 Barg @ 150°C (-14 to 145 psi @ 302°F)

Ordering Information



(1) Considered standard configuration
(2) Only available for 20" and 30" bowl height
(3) Support legs are fitted as standard on 08, 12, 19, 24 & 32 Round

For steam, select EPDM or FEP enc Silicone seal material
For further information refer to drawing 179502689

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order

Accessories

Part Code	Part Number	Description
XPGSS04AL10	639509116	0 - 6 Bar pressure gauge, 1/2" BSP c/w manual ball valve vent and staubli coupling
XPGSS04AL11	639509117	0 - 10 Bar pressure gauge, 1/2" BSP, c/w manual ball valve vent and staubli coupling
XVASS04AL	639509056	1/2" BSP manual ball valve

PHB Demi Housings



- ▶ Specifically designed for gas filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- ▶ Includes plenum chamber for condensate management.
- ▶ Available with 10 Bar or 16 Bar design pressure.
- ▶ Clamp closure system allows easy handling.

Applications

The PHB filter housing range is specifically designed for gas filtration applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water
- ▶ Dairy

Suitable for use with PED Group 1 & 2 Gas.

Availability

The PHB Demi gas filter housing range is available for Parker's full range of Truseal (126) gas filter cartridges of nominal lengths 2.5" and 5".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability. All gasket materials meet FDA regulatory requirements and Food Grade EC 1935/2004 compliance.

Surface Finish

As standard, internal surfaces downstream are fine brushed to <0.8µm Ra. Internal surfaces upstream (bowl) are fine brushed. External surfaces are fine brushed with satin finish. All assembly welds remain evident.

Connections

The PHB Demi comes as standard with BSP inlet and outlet connections (BSP vent and drain). Other options are available including ANSI Flange, EN1092-1 Flange and NPT.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	Silicone (EPDM or FEP enc. silicone also available)
Housing Closure:	Clamp (Double Bolted Clamp on 16 Bar version)
Number of Cartridges:	01
Cartridge Height:	2.5" & 5"
Cartridge Location:	Truseal (126)
Internal Surface (Downstream):	Ra <0.8µm Fine Brushed
Internal Surface (Upstream):	Fine Brushed
External Surface:	Fine Brushed (Satin Finish)
Design Conditions:	FV to 10 Barg @ 150°C (-14 to 145 psi @ 302°F) FV to 16 Barg @ 150°C (-14 to 232 psi @ 302°F)

Ordering Information

Code	Inlet & Outlet Connection	Code	Inlet & Outlet Connection
B005	BSP Female ½" (1)	G005	ANSI 300 Flange ½" (5)
B010	BSP Female 1" (1)	G010	ANSI 300 Flange 1" (5)
A005	ANSI 150 Flange ½" (4)	H015	EN1092-1 PN25 Flange DN15 (5)
A010	ANSI 150 Flange 1" (4)	H025	EN1092-1 PN25 Flange DN25 (5)
E015	EN1092-1 PN16 Flange DN15 (4)	N005	NPT Female ½" [via adaptor] (6)
E025	EN1092-1 PN16 Flange DN25 (4)	N010	NPT Female 1" [via adaptor] (6)

Code	Cartridge Height	Code	Closure
A	5" (125mm)	C	Standard Clamp (1)
B	2.5" (63.5mm)	B	Single Bolted Clamp
		H	Double Bolted Clamp

Code	Design Pressure	Code	Seal Material	Code	Vent & Drain	Code	Plugs
0	10 Bar (1)	S	Silicone (1)	77	BSPF ¼" (1)	1	With Plugs (3)
6	16 Bar (2)	E	EPDM	88	NPTF ¼" (6)	0	No Plugs (7)
		P	FEP enc. Silicone				

PHB X 01 X T X X XX M 8 XXXX X

- (1) Considered standard configuration
- (2) Double bolt clamp must be selected
- (3) Plug gasket material is PTFE
- (4) Only available on 10 Bar option
- (5) Only available on 16 Bar option
- (6) Vent and drain are NPT only with NPT inlet and outlet
- (7) Plugs cannot be supplied with NPT option

For steam, select EPDM or FEP enc Silicone seal material
For further information refer to drawings: 179502678

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order

Accessories

Part Code	Part Number	Description
XPGSS03AL1	639509074	0 - 10 Bar pressure gauge, c/w manual ball valve with nipple
XPGSS03AL2	639509075	0 - 16 Bar pressure gauge, c/w manual ball valve with nipple
XVASS03AL	639509076	Ball valve, BSPM ¼" c/w hose adaptor

PHB Single Housings



- ▶ Specifically designed for gas filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- ▶ Includes plenum chamber for condensate management.
- ▶ Available with 10 Bar or 16 Bar design pressure.
- ▶ Clamp closure system allows easy handling.

Applications

The PHB filter housing range is specifically designed for gas filtration applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water
- ▶ Dairy

Suitable for use with PED Group 2 Gas.

Availability

The PHB gas filter housing range is available for Parker's full range of C-Style (226) gas filter cartridges of nominal lengths 5" to 30".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability. All gasket materials meet FDA regulatory requirements and Food Grade EC 1935/2004 compliance.

Surface Finish

As standard, internal surfaces downstream are mechanically polished to <math><0.8\mu\text{m}</math> Ra. All other internal and external surfaces are fine brushed with a satin finish. Assembly welds remain evident.

Connections

The PHB comes as standard with ASME BPE clamp connections (BSP vent and drain). Other options are available including: ANSI Flange, EN1092-1 Flange, Butt Weld and NPT.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	Silicone (EPDM, or PTFE also available - PTFE requires double bolted clamp)
Housing Closure:	Clamp (Double Bolted Clamp on 16 Bar version)
Number of Cartridges:	01
Cartridge Height:	5", 10", 20" & 30"
Cartridge Location:	C-Style (226)
Internal Surface (Downstream):	Ra <math><0.8\mu\text{m}</math> Mechanical Polish
Internal Surface (Upstream):	Fine Brushed
External Surface:	Mechanical Polish
Design Conditions:	FV to 10 Barg @ 150°C (-14 to 145 psi @ 302°F) FV to 16 Barg @ 150°C (-14 to 232 psi @ 302°F)

Ordering Information

Code	Cartridge Height
K	5" (125mm) (1)
1	10" (250mm) (1)
2	20" (500mm) (1)
3	30" (750mm)

Code	Closure
C	Standard Clamp (1)
H	Double Bolted Clamp

Code	Inlet & Outlet Connection
T015	Clamp ASME BPE, 1.5" (1)
T020	Clamp ASME BPW 2" (1)
B015	BSP Female, 1.5"
B020	BSP Female, 2"
D040	DIN 11851 Male Part DN40
D050	DIN 11851 Male Part DN50
A150	Flange ANSI 150 1.5" (4)
A200	Flange ANSI 150 2.0" (4)

Code	Inlet & Outlet Connection
E040	Flange EN1092-1 PN16 DN40 (4)
G150	Flange ANSI 300 1.5" (5)
G200	Flange ANSI 300 2.0" (5)
H040	Flange EN1092-1 PN25 (5)
N015	NPT Female 1.5" (6)
N020	NPT Female 2.0" (6)
W038	Weld ASME BPE 38.1 x 1.65mm
W051	Weld ASME BPE 50.8 x 1.65mm

PHB X **01** X **7** X X **XX** **M** **8** **XXXX** X

Code	Design Pressure
0	10 Bar (1)
6	16 Bar (2)

Code	Seal Material
S	Silicone (1)
E	EPDM
P	PTFE (2)

Code	Vent & Drain
77	BSPF 1/4"
88	NPTF 1/4" (6)

Code	Plugs
1	With Plugs (3)
0	No Plugs (7)

- (1) Considered standard configuration
- (2) Double bolt clamp must be selected
- (3) Plug gasket material is PTFE
- (4) Only available on 10 Bar option
- (5) Only available on 16 Bar option
- (6) Vent and drain are NPT only with NPT inlet and outlet
- (7) Plugs cannot be supplied with NPT option

*For steam, select EPDM or FEP enc Silicone seal material
For further information refer to drawing: 179502680*

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Roughness Certificate 3.1 (609500345)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order

Accessories

Part Code	Part Number	Description
XPGSS03AL1	639509074	0 - 10 Bar pressure gauge, c/w manual ball valve with nipple
XPGSS03AL2	639509075	0 - 16 Bar pressure gauge, c/w manual ball valve with nipple
XVASS03AL	639509076	Ball valve, BSPM 1/4" c/w hose adaptor

PHF Demi Housings



- Specifically designed for liquid and gas filtration applications in the food and beverage industry.
- PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- Demi housing with Z-Style (116) cartridge location.
- Mirror polished finish.

Applications

The PHF filter housing range is specifically designed for low flow rate liquid and gas applications in:

- Beer
- Wine
- Bottled Water
- Dairy

Suitable for use with PED Group 1 and 2 liquids and gas.

Availability

The PHF filter housing range is available in a single round, demi format. These housings will accept Parker's full range of Z-Style (116) liquid and gas filter cartridges of nominal lengths 2.5" and 5".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability.

Surface Finish

The PHF range comes as standard with an internal surface finish that is mechanically polished to <math><0.8\mu\text{m Ra}</math> (BSP model) or <math><0.4\mu\text{m Ra}</math> (Tri-Clamp model). External surface finish is a mechanical mirror polish.

Connection

The PHF housing range is available with BSPF or Tri-Clamp inlet and outlet connection.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate and user manual.

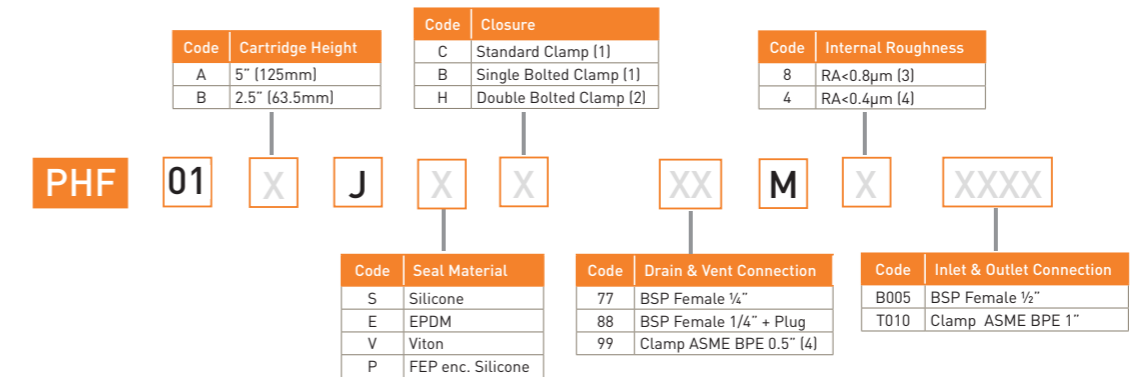
Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU & ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Housing Closure:	Clamp (PED Group 2) / Double Bolted Clamp (PED Group 1)
Number of Cartridges:	01
Cartridge Height:	2.5" & 5"
Cartridge Location:	Z-Style (116)
Internal Surface:	BSP Model: Mechanical Polished <math><0.8\mu\text{m Ra}</math> TC Model: Mechanical Polished <math><0.4\mu\text{m Ra}</math>
External Surface:	Mechanical Mirror Polish
Design Conditions:	FV to 10 Bar @ -20 to 150°C (-14 to 145 psi @ -4 to 302°F)

Ordering Information



(1) Can be used only for PED fluid group 2 (not dangerous)
 (2) Required for PED fluid group 1 (dangerous)
 (3) Available only for BSP version
 (4) Available only for Clamp version

For steam, select EPDM or FEP enc Silicone seal material
 For further information refer to drawing 179502686.

Further Documentation

- Material Certificates 3.1 (609500552)
- Roughness Certificate 3.1 (609500345)
- Weld Procedure Book (609500339)
- Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order.

Accessories

Part Code	Part Number	Description
XPGSS03AL1	639509074	0 - 10 Bar pressure gauge, c/w manual ball valve with nipple
XVASS03AL	639509076	Ball valve, BSPM 1/4" c/w hose adaptor
XVASS04AL3	639509083	Sanitary drain valve, 0.5" Tri-Clamp to Hosebarb c/w clamp and seal
XVASS04AL4	639509084	Sanitary drain valve, 0.5" Tri-Clamp to Staubli RBE03 c/w clamp and seal
XVASS04AL5	639509085	Sanitary drain valve, 0.5" Tri-Clamp to Rectus 21 c/w clamp and seal

PHI Single Housings



- ▶ Specifically designed for liquid and gas filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU, ATEX 2014/34/EU and food grade EC1935/2004 compliance.
- ▶ In-line sanitary single round housing.
- ▶ Available with 10 Bar or 16 Bar design pressure.
- ▶ Mirror polished finish.

Applications

The PHI filter housing range is specifically designed for in-line liquid and gas applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water
- ▶ Dairy

Suitable for use with PED Group 2 liquid and gas.

Availability

The PHI filter housing range will accept Parker's full range of C-Style (226) liquid and gas filter cartridges, of nominal lengths 5" to 40".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability. All gasket materials meet FDA regulatory requirements and food grade EC 1935/2004 compliance.

Surface Finish

As standard, internal surfaces in the downstream are mechanically polished to <math><0.8\mu\text{m}</math> Ra and in the upstream are fine brushed. External surfaces are mirror polished. All assembly welds are polished but remain evident.

Connections

The PHI range is available with ASME BPE clamp (1.5") inlet and outlet. This range comes with or without vent and drain connections. Options include ASME BPE clamp (vent and drain) and lateral sanitary bleed valve (vent only).

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

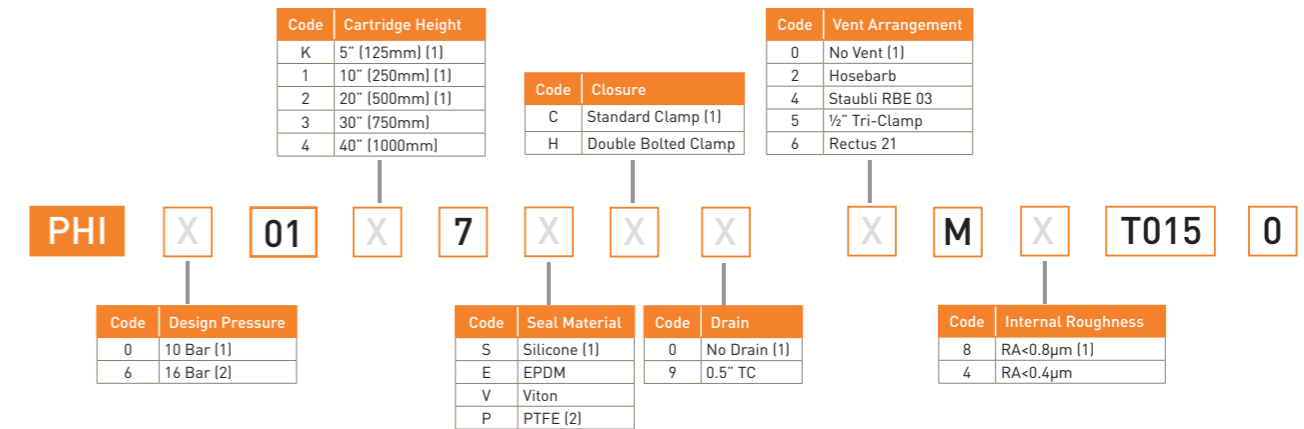
Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	Silicone (EPDM or PTFE also available - PTFE requires double bolted clamp)
Housing Closure:	Clamp / Double Bolted Clamp
Number of Cartridges:	01
Cartridge Height:	5", 10", 20", 30" and 40"
Cartridge Location:	C-Style (226)
Internal Surface (Downstream):	Ra <math><0.8\mu\text{m}</math> Mechanical Polish
Internal Surface (Upstream):	Fine Brushed
External Surface:	Mirror Polished
Design Conditions:	FV to 10 Barg @ 150°C (-14 to 145 psi @ 302°F) FV to 16 Barg @ 150°C (-14 to 232 psi @ 302°F)

Ordering Information



(1) Considered standard option
(2) Option requires double bolt clamp

For further information refer to drawing 179502682

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Roughness Certificate 3.1 (609500345)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order.

Accessories

Part Code	Part Number	Description
XVASS04AL3	639509083	Sanitary drain valve, 0.5" Tri-Clamp to Hosebarb c/w clamp and seal
XVASS04AL4	639509084	Sanitary drain valve, 0.5" Tri-Clamp to Staubli RBE03 c/w clamp and seal
XVASS04AL5	639509085	Sanitary drain valve, 0.5" Tri-Clamp to Rectus 21 c/w clamp and seal

PHV Single and Multi Housings



- ▶ Atmospheric single and multi-round filter housings for filtration of tank air.
- ▶ Designed for the food and beverage industry.
- ▶ Available in 1, 3, 5, 8 and 12 round.
- ▶ Easy handling with light bowl.

Applications

The PHV vent filter housing range is specifically designed for food and beverage applications that require filtration of tank air to atmosphere in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water
- ▶ Dairy

Availability

The PHV vent filter housings are available as single and multi-round for 1, 3, 5, 8 and 12 filter cartridges. The series will accept Parker's full range of C-Style (226) filter cartridges of nominal lengths 10", 20" and 30".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability.

Surface Finish

Internal and external surfaces are mechanically polished (<0.8µm Ra on the tank side).

Connections

The PHV vent filter range is available with Tri-Clamp, DIN 11851 liner or DIN 11851 male connections.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual.

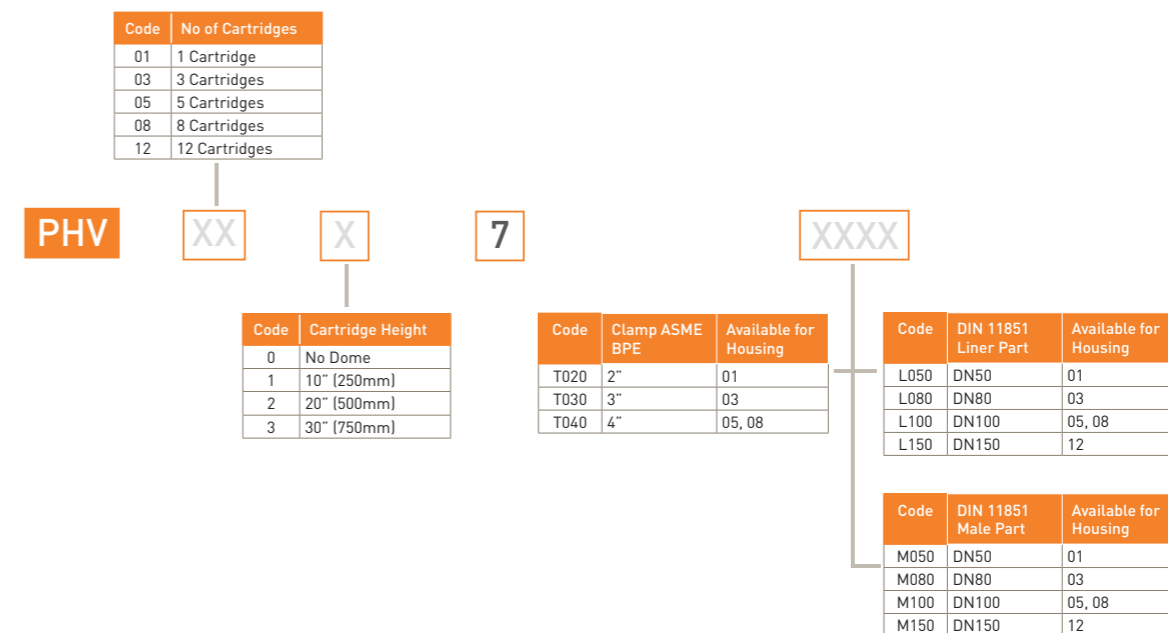
Directives

Parker filter housings are manufactured in accordance with European Directives: ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Housing Closure:	Vee-Clamp (Single) / Hand Wheels (Multi)
Number of Cartridges:	01, 03, 05, 08 and 12
Cartridge Height:	10", 20" and 30"
Cartridge Location:	C-Style (226)
Internal Surface:	Mechanical Polish (Ra <0.8µm on tank side)
External Surface:	Mechanical Polish

Ordering Information



For further information refer to drawing 179502683

Further Documentation

- ▶ Material Certificates 3.1 (609500552)
- ▶ Weld Procedure Book (609500339)
- ▶ Weld Qualification Book (609500340)

Available at extra cost, to be requested at time of order.

PHW Single Housings



- ▶ Specifically designed for liquid pre-filtration applications in the food and beverage industry.
- ▶ PED 2014/68/EU and ATEX 2014/34/EU Compliance.
- ▶ Accepts C-Style (226), D-Style (222) and DOE cartridges, 10" to 40".
- ▶ Vee-Clamp closure for quick opening.
- ▶ Suitable for SIP and CIP.
- ▶ Cost effective housing without compromising quality and performance.

Applications

The PHW single round filter housing range is specifically designed for liquid pre-filtration applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water

The range is suitable for use with PED Group 1 and 2 liquids, and PED Group 2 gas.

Availability

The PHW single cartridge housing range can accept Parker's full range of C-Style (226), D-Style (222) and DOE cartridges of nominal length 10" to 40".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability.

Surface Finish

As standard, internal surfaces are pickled only. External surfaces are mechanically polished.

Connections

The PHW single is available with inlet and outlet connection options of 3/4" and 1" BSPF or butt weld (33.7 x 1.65mm). There are 2 x 1/4" BSPF drain ports and a 1/4" BSPM vent port. Vent and drains are supplied with plugs as standard.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual. 3.1 material certification is not available for this range, a 2.1 declaration of conformity can be supplied upon request.

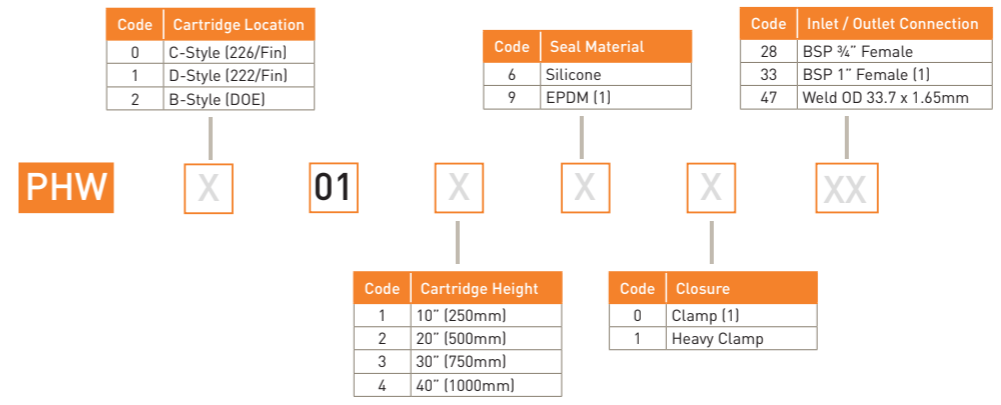
Directives

Parker filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	EPDM (Silicone also available)
Housing Closure:	Vee-Clamp (High Pressure Clamp must be selected for gas applications)
Number of Cartridges:	01
Cartridge Height:	10", 20", 30" and 40"
Cartridge location:	C-Style (226), D-Style (222) and DOE
Internal Surface:	Pickled
External Surface:	Mechanical Polish
Design Conditions:	PED Group 1 Liquid: 5 Bar @ -20 to 150°C PED Group 2 Liquid and Gas: 8 Bar @ -20 to 40°C / 6.2 Bar @ 150°C

Ordering Information



(1) Considered standard configuration
For further information refer to drawing 179502684.

Accessories

Part Code	Part Number	Description
XPSS03AL1	639509074	0 - 10 Bar pressure gauge, c/w manual ball valve with nipple
XVASS03AL	639509076	Ball valve, BSPM 1/4" c/w hose adaptor

PHW Multi Housings



- ▶ Specifically designed for liquid pre-filtration industrial and food and beverage applications.
- ▶ PED 2014/68/EU and ATEX 2014/34/EU Compliance.
- ▶ Accepts C-Style (226), D-Style (222) and DOE cartridges, 20" to 40".
- ▶ Split body for easy access to cartridges.
- ▶ Off-set geometry for easy installation and piping connections.
- ▶ Suitable for CIP.

Applications

The PHW multi round filter housing is specifically designed for liquid pre-filtration applications in:

- ▶ Beer
- ▶ Wine
- ▶ Bottled Water

Suitable for use with PED Group 2 liquids.

Availability

The PHW multi round housing range is available for 3, 5 or 8 filter cartridges. This housing is available to accept Parker's full range of C-Style (226), D-Style (222) and DOE liquid filter cartridges of nominal lengths 20", 30" and 40".

Materials

AISI 316L grade stainless steel is used for all wetted parts assuring corrosion resistance and durability.

Surface Finish

As standard, internal surfaces are pickled only. External surfaces are shot peened.

Connections

The PHW multi is available with inlet and outlet connection options of BSPM or EN1092-1 Flange.

Certification

Each filter housing is supplied as standard with a manufacturer's report test certificate, declaration of conformity (where applicable) and user manual. 3.1 material certification is not available for this range, a 2.1 declaration of conformity can be supplied upon request.

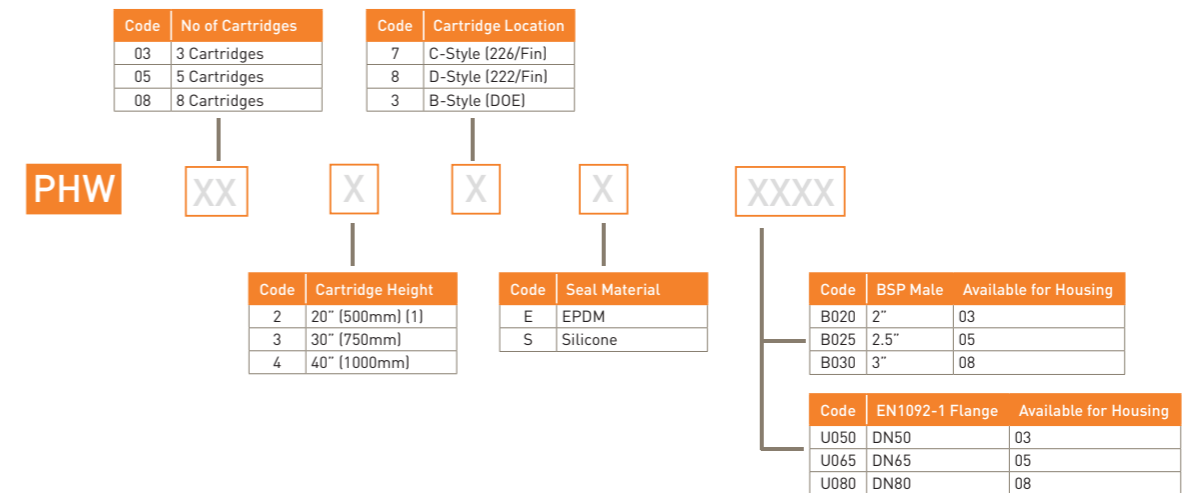
Directives

Parker Hannifin filter housings are manufactured in accordance with European Directives: PED 2014/68/EU and ATEX 2014/34/EU.

Technical Data

Materials (wetted surfaces):	316L Stainless Steel
Gasket Materials:	EPDM (Silicone also available)
Housing Closure:	Vee-Clamp
Number of Cartridges:	03, 05, 08
Cartridge Height:	20", 30" and 40"
Cartridge Location:	C-Style (226), D-Style (222) or DOE
Internal Surface:	Pickled
External Surface:	Shot Peened
Design Conditions:	10 Bar @ -20 to 40°C 6 Bar @ 90°C

Ordering Information



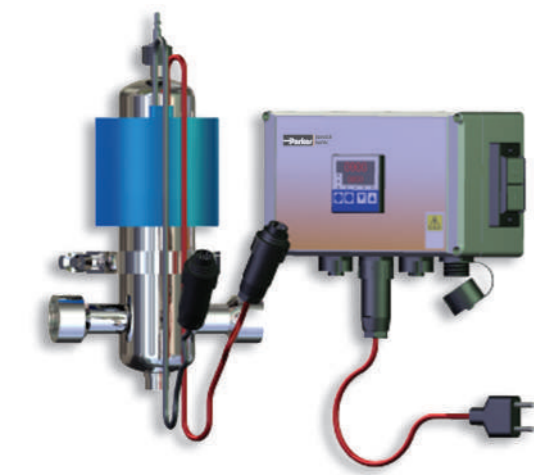
(1) 03, 05 Cartridges only

For further information refer to drawing 179502685.

Accessories

Part Code	Part Number	Description
XPSS04AL11	639509117	0 - 10 Bar pressure gauge, 1/2" BSP, c/w manual ball valve vent and staubli coupling
XVASS04AL	639509056	1/2" BSP manual ball valve

Heating Equipment



- ▶ Suitable for tank venting applications.
- ▶ Available for demi (5") and single cartridge gas filter housings (K to 30")
- ▶ 'Cool to touch' silicone heater jacket
- ▶ PID (Proportional, integral, differential) controller in a polycarbonate housing.
- ▶ Foolproof connection of plugs and sockets.

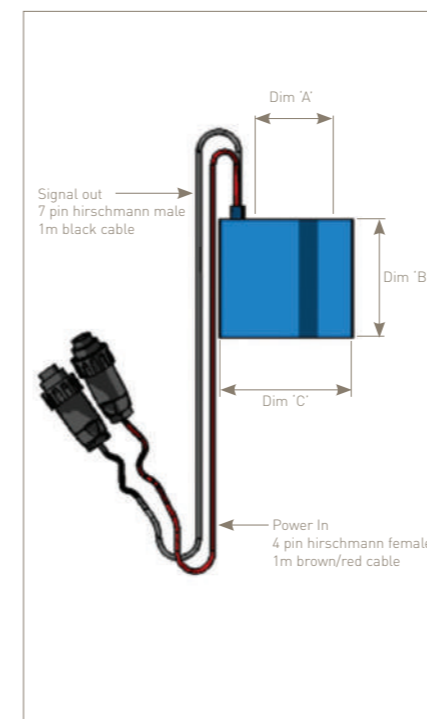


- ▶ Silicone foam rubber heating jacket with internally meshed heating wires. Open longitudinal slit down the length to slide over a housing.
- ▶ Five standard sizes, A (Demi), K, 10", 20", 30". 230 (240) volts supply, not grounded.
- ▶ Protection rating: IP65.
- ▶ Design standards: EN 60519-1 and 2.
- ▶ Temperature sensor, PT100, built-in with 1m cable.
- ▶ Maximum temperature 200°C (392°F).
- ▶ Temperature limiter at 150°C ± 5°C (302°F ± 41°F).
- ▶ 1m power cable with plug to controller.
- ▶ Silicone heater is moisture and weather proof.
- ▶ To be used with temperature controller.
- ▶ Parker logo adhered to silicone heater.
- ▶ Comprehensive installation, operation and maintenance instructions (IOMI).

- ▶ ISOPAD temperature controller.
- ▶ On / Off switch.
- ▶ 230 V live and neutral.
- ▶ Maximum ambient temperature 55 °C (131 °F).
- ▶ Set temperature display: 8mm red LED.
- ▶ Actual temperature display: 10mm green LED.
- ▶ Protection rating: IP65.
- ▶ Design standards: EN61010-1.
- ▶ 1m power cable. (available as accessory kit)
- ▶ Volt free output for an alarm.
- ▶ Comprehensive installation, operation and maintenance instructions (IOMI).
- ▶ PID Control
 - SSR Output (12V)
 - Alarm relay (2.4A)
 - Auto tuning
 - PT100 sensor
- ▶ Suitable for wall or panel mounting.

Physical Characteristics

Housing	A	B	C
Demi A	63.5	90	130
K	88.9	125	150
10"	88.9	250	150
20"	88.9	500	150
30"	88.9	750	150



Housings

The heating jacket offers support to Demi A, K to 30" housings including:

- ▶ PHB
- ▶ PHI
- ▶ PHV*

* Single round only



Standard Housing - Ordering Information

Part Code	Part Number	Housing Size	Supply Voltage	Controller
XBHSI05-230V	639503145	5" Demi	230V	Included
XBHSI05KN-230V	639504399	5"	230V	Included
XBHSI10N-230V	639504400	10"	230V	Included
XBHSI20N-230V	639504401	20"	230V	Included
XBHSI10N-230V-NC	639504403	10"	230V	Not Included
XBHSI20N-230V-NC	639504404	20"	230V	Not Included

Kit excludes mains power cable.

Accessories

Part Code	Part Number	Description
XBHXT2M	639503496	2 meter power and signal cable extension
XBHPS1M-PSEU	639503199	Power cable with European plug
XBHPS1M-PSUK	639503200	Power cable with UK plug
XBHPS1M-PS	639503640	Power cable with no plug

Related products

As well as providing filter vessels, Parker offer a wide range of products to support you within the food and beverage industry.



PREPOR NG

- ▶ Polypropylene 0.5 - 1.0 micron
- ▶ Validated yeast removal and bacteria reduction
- ▶ Haze reduction
- ▶ Graded density construction for increased retention and throughput
- ▶ Strong, pleated polypropylene construction for backwash and chemical CIP.



BEVPOR BR

- ▶ Polyethersulphone 0.45 micron
- ▶ Cold stabilisation of beers before packaging
- ▶ Validated microbial retention for effective stabilisation
- ▶ Optimised PES membrane structure
- ▶ High filtration area - 0.8m² per 10"
- ▶ Integral prefilter layer up to 0.8m²



BEVPOR PH

- ▶ Polyethersulphone 0.45, 0.65 micron
- ▶ Validated microbial retention for effective stabilisation
- ▶ High filtration area - 0.8m² per 10"
- ▶ Integral prefilter layer up to 0.8m²



BEVPOR PS

- ▶ Polyethersulphone 0.45, 0.65 micron
- ▶ Validated microbial retention for effective stabilisation
- ▶ Up to 0.6m² filtration area per 10"



BEVPOR MH

- ▶ Polyethersulphone 0.2, 0.45 micron
- ▶ Final stabilisation and sterilisation of beverages before packaging
- ▶ Fully validated microorganism retention characteristics.
- ▶ Hydrophilic construction for repeated integrity testing.
- ▶ Unique construction offers maximum lifetime to blockage and service life.
- ▶ Integrated prefiltration layer and high filtration area construction.



PREPOR PP

- ▶ Polypropylene 0.6 - 1.0 micron
- ▶ Yeast and bacteria reduction
- ▶ Haze reduction
- ▶ Strong, pleated polypropylene construction for backwash and chemical CIP



ASEPT-X

- ▶ Expanded PTFE 0.2 micron
- ▶ Fully validated bacterial, spore and bacteriophage retention
- ▶ Resistant to >1bar dP in reverse direction at max SIP temperature
- ▶ Ability to withstand liquid condensate



HIGH FLOW BIO-X

- ▶ PTFE Impregnated glass fibre - 0.01 micron sterilising
- ▶ Fully retentive to aerosol bacteria
- ▶ 94% voids volume PTFE impregnated glass fibre
- ▶ Exceptional flow rates with low pressure drops
- ▶ Integrity testable by aerosol challenge



HIGH FLOW TETPOR II

- ▶ Polypropylene expanded PTFE 0.01-0.2 micron
- ▶ Assured biosecurity with absolute rated filtration
- ▶ High flow rates with low pressure drops
- ▶ High voids volume PTFE membrane
- ▶ Fully integrity testable



TURBOSEP

- ▶ Highly efficient separation of liquid and foam from off-gas
- ▶ Increases fermenter capacity by up to 30%
- ▶ Protection of off-gas filters for extended life
- ▶ Reduction in antifoam usage of up to 60%



Valairdata 3

- ▶ Aerosol challenge test
- ▶ Integrity testing of gas filters
- ▶ Portable, secure and easy to use.



Bevcheck



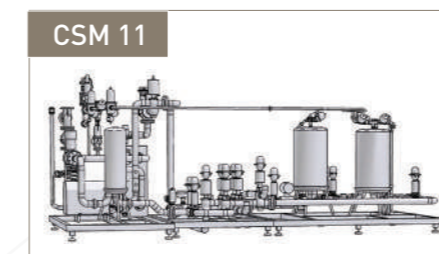
Bevcheck Plus

- ▶ Liquid filter test
- ▶ Pressure decay and diffusional flow testing
- ▶ Bevcheck: Hand held portability with rechargeable battery option
- ▶ Bevcheck Plus: Convenient built-in printer provides printed test report
- ▶ Flexible: suitable for use with compressed air or nitrogen

Automated Systems

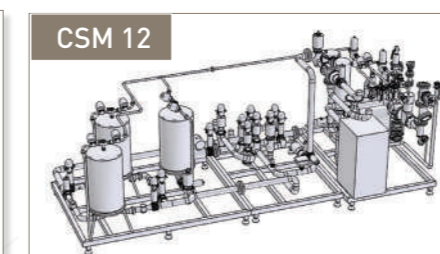
Together with Agidens Process Automation, Parker can offer a platform of hygienic, fully flexible cold stabilisation modules (CSM).

- ▶ Automated CIP of each filter stage with two chemicals
- ▶ Automated integrity testing of membrane filters
- ▶ Full process sensing and data management



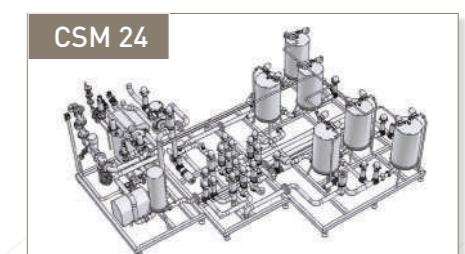
CSM 11

- ▶ One prefilter stage, one final filter stage
- ▶ Flow range: 40-100hl/hr
- ▶ Batch processing



CSM 12

- ▶ One prefilter stage, two final filters (duplex)
- ▶ Flow range: 100-300l/hr
- ▶ Batch processing



CSM 24

- ▶ Two prefilters (duplex), four final filters (duplex)
- ▶ Flow range: 300-600l/hr
- ▶ Continuous processing

www.parker.com/bioscience



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