

53 SERIES

Single Stack Filter Housing



The **53 Series** single cartridge housing is ideal for use in sensitive gas, steam and pulsating pressure environments. With the ability to accept both standard Double Open End and Single Open End cartridges, this single stack housing uses a DIN threaded closure that has proved successful in a wide variety of applications such as aerosol filling lines and nitrogen purge systems for beverage and pharmaceutical applications.

The **53 Series** will accept the full range of Amazon and industry standard cartridges ranging from 0.1 to 500µm with nominal lengths of 5, 10, 20 and 30".



Double Open Ended

Single Open Ended

Product Features

- DIN threaded closure allows higher operating pressures
- Suitable for gas, steam, and pulsating pressure environments
- Lightweight, high specification investment cast head and top ring
- Easy to use tie rod assembly design ensures cartridge centralisation (for a reliable knife edge seal) that enables the use of either 9.75" or 10" cartridge length configurations or multiples) in the same housing.
- Dual purpose head accepts SOE code 3 and DOE cartridges
- SOE code 7 and code B adaptors available
- Available in 316L stainless steel or Alloy 22 for maximum compatibility
- Wide range of connection size and types, cartridge lengths and materials of construction
- PED Compliant to Cat I
- Full traceability on all parts, material certification packs available
- Standard vessel rated to 28 bar g, high pressure vessel rated to 40 bar g



| Accessories | |
|-----------------------------------|--|
| Pressure Gauge and Vent Valve Kit | |
| Ball Valve and Nipple | |
| Stand | |
| Mounting Bracket | |
| Spanner | |

Features and Benefits

- Investment Cast head (avoids the porosity & inclusion problems associated with lower quality sand castings)
- Integral vent and drain sockets to aid efficient filter changeout complete with PTFE washer
- Unique interchangeable configuration enables choice of plug in or DOE cartridge styles in the same housing
- Every housing is etched with a serial number for full traceability
- Full housing customisation service available
- Available in both 316L Stainless Steel and Alloy 22

Product Range

Amazon Filters design and manufacture an extensive range of liquid filtration systems, providing one of the widest selections of filtration vessels, depth filters and pleated cartridges available today, ensuring excellent process and filter compatibility.

As one of Europe's leading manufacturers of filtration systems, Amazon Filters is able to offer a solution to meet all filtration requirements. Amazons' filters are manufactured in clean room conditions and all products come with detailed Product Validation Guides and Technical Support documentation.



53 Series Technical Data

Maximum Operating Conditions

| Pressure Range: | Standard | High Pressure |
|---|--|--|
| Liquid Group 1 & Gas Group 2 | FV / 28 bar g | FV / 40 bar g - 10" & 20" FV / 36 bar g - 30" |
| Liquid Group 2 | FV / 28 bar g | FV / 40 bar g |
| Gas Group 1 | FV / 20 bar g - 10" FV / 12 bar g - 20" FV / 9 bar g - 30" | FV / 20 bar g - 10" FV / 12 bar g - 20" FV / 9 bar g - 30" |
| Temperature Range: | -10°C / 150°C | |

Materials of Construction

Body & Closure: 316L St. Steel
Alloy 22

Finish

Vessel: Externally polished sump, bead blast head

Connections

Inlet/Outlet: 1" BSPF
Vent: 1/4" BSPF with Plug
Drain: 1/4" BSPF with Plug

| Model | Dimensions | | | | | Volume (Litres) | Dry Weight (kg) |
|-------|------------|---|---|-----|-----|-----------------|-----------------|
| | A | B | C | D | E | | |
| 10" | 349 | - | - | 120 | 300 | 2.2 | 3.4 |
| 20" | 603 | - | - | 120 | 554 | 3.7 | 4.4 |
| 30" | 857 | - | - | 120 | 800 | 5.1 | 5.3 |

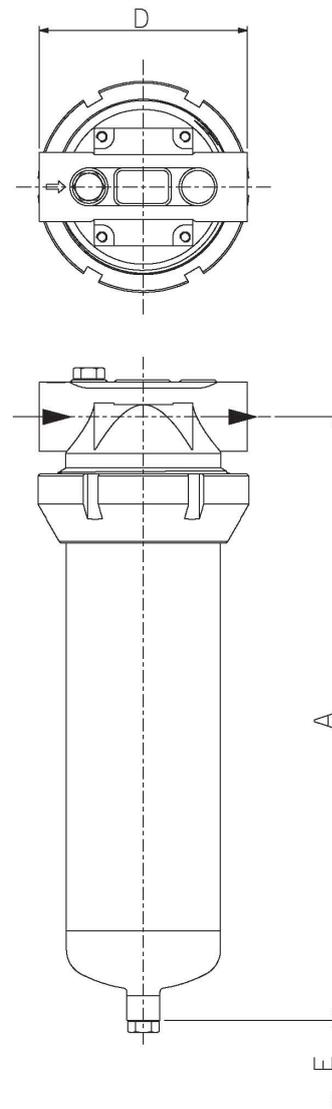
PED* / PESR Status:** Compliant with PED 2014/68/EU and PESR 2016 No. 1105

Fluid Groups: Gas Group 1 + 2
Liquids Group 1 + 2

Markings: CE

Exceptions: Group 1 liquids - Explosive

ATEX Compliant with 2014/34/EU and Explosive Atmosphere Regulations 2016
II 2G Ex h IIC T150 Gb
II 2D Ex h IIIC T150 Db



* Pressure Equipment Directive
** Pressure Equipment (Safety) Regulations No. 1105

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

Ordering Guide

| 5301 | 1 | 0 | X | N | 10 | B | 1 | C | V |
|--------------|--|---|---|-------------------------|-----------------------------------|--|--|--|--|
| No of Stacks | Cartridge Length | Cartridge End Cap Style | Closure Style | Mounting | Connection | Connection Type | Materials | Finish | Seal |
| 5301-1 | 0 - 5" 1 - Single 10" 2 - Double 20" 3 - Triple 30" | 0 - Code 0 B - Code B 3 - Code 3 7 - Code 7 I - MCY1000 insert *1 | X - DIN Screwed Closure (Std) Y - DIN Screwed Closure (High Pressure)*2 | N - None E - Bracket | 10 - 1" 15 - 1 1/2" 20 - 2" | Standard B - BSPF (1" Only) C - EN1092-1 Flange PN16 E - EN1092-1 Flange PN40 H - ASME Flange 150# J - ASME Flange 300# High Pressure*2 B - BSPF (1" Only) W - EN1092-1 Flange PN63 Y - ASME Flange 600# | 1 - 316 st.st (L Grade) 4 - Alloy 22 | C - Externally Polished Sump, Bead Blast Head J - Externally Polished Sump, Bead Blast Head (Alloy 22 option only) | K - FFKM V - Viton S - Silicone |

Example: 530110XN10B1CV = 53 Series, 1 x 10" DOE cartridge, DIN Screwed closure, No mounting, 1" BSPF connections. St. Steel constructions with Viton gaskets, externally polished sump with bead blast head.

*1: Can not be converted to accept code 3 cartridges.

*2: High Pressure option is only available with Y closure, B, W or Y Connection type.

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Document Code