

50 SERIES OVERVIEW

Single Stack Cartridge Housings



The high quality **50 Series** cartridge housings offer the widest possible choice in lightweight single cartridge filter assemblies for all types of processes. Featuring state of the art components this range of housings is available in various different designs to ensure the most cost effective option can be offered for a diverse range of applications. They are suitable for both liquid and gas duties and can be operated in safety whilst offering easy to use closures.

The **50 Series** housing range consists of :-

51 Series

- Suitable for general purpose liquid and gas applications
- Can be used with both single and double open-ended cartridges
- Quick release Vee Clamp Closure for easy opening
- Large diameter **51 B-Blue** version available

52 Series

- Designed for higher pressures of up to 20 bar
- Can be used with both liquids and gases
- Suitable for full vacuum
- High performance Cast Vee Clamp closure

53 Series

- Designed for higher pressures of up to 28 bar
- DIN threaded closure allows higher operating pressure and security
- Suitable for gas, steam and pulsating flows
- High pressure 40 bar version available

54 Series Clearview

- Contains a borosilicate 'viewing' section to assist in process monitoring

- Borosilicate tube offers maximum fluid compatibility
- Quick Release Vee Clamp closure for easy opening
- Can be used with a range of plug in style cartridges

55 Series

- Provides easy access in limited spaces
- Through bolt closure allows easy removal of housing bowl and used cartridge
- Unique design means cartridges can be change out in spaces where not possible previously
- Accepts double open ended cartridges only

56 Series

- Utilises a bolted closure design
- Provide a high security closure
- Suitable for hazardous liquid and gas applications
- Full vacuum rating in liquids and gases

The **50 Series** range 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". Most models will accept both Single Open End (Code 3) and Double Open End cartridges without modification.

The investment cast heads with precision machined sealing faces are manufactured in 316L stainless steel as standard and have the option of Alloy C22 for most models.

Other features include fully welded flanges, dairy fittings and Tri Clamp connections, and a wide choice of sealing materials such as EPDM, Viton, FEP and Silicone.



Features and Benefits

- Available in a wide range of designs to ensure the most cost effective option can be used in a diverse range of applications
- Universal cup enables choice of plug in (Code 3, Code 8 and Code A) or DOE cartridge styles in the same housing
- Full housing customisation service available
- Every housing is etched with a batch number for full traceability
- Full PED compliance with 2014/68/EU and full ATEX compliance with 2014/34/EU, level CE Ex II 2 GD c X
- Integral vent and drain sockets



50 Series Technical Data

Maximum Operating Conditions

| | | 51 Series | | | 51 B-Blue Series | | 52 Series | | | 53 Series | | | 54 Series | | | 55 Series | | | 56 Series | | |
|------------------|--------|-----------|-----|-----|------------------|-----|-----------|-----|-----|-----------|-----|-----|-----------|-----|-----|-----------|-----|-----|-----------|-----|-----|
| | | 10" | 20" | 30" | 10" | 20" | 10" | 20" | 30" | 10" | 20" | 30" | 10" | 20" | 30" | 10" | 20" | 30" | 10" | 20" | 30" |
| Maximum Pressure | Liquid | 10 | | | 10 | | 20 | | | 28 | | | 10 | | | 10 | | | 10 | | |
| | Gas | 10 | | | 10 | | 20 | 12 | 9 | 28 | | | 6 | | | - | | | 10 | 10 | 9 |
| Maximum Temp. | | 150°C | | | 150°C | | 150°C | | | 150°C | | | 110°C | | | 110°C | | | 150°C | | |
| Volume (Litres) | | 2.2 | 3.7 | 5 | 4.2 | 7.3 | 2.2 | 3.7 | 5.1 | 2.2 | 3.7 | 5.1 | 2.2 | 3.7 | 5.2 | 1.8 | 3.3 | 4.8 | 2.2 | 3.8 | 5.2 |

Materials of Construction

Body and Head: 316L St. Steel
Alloy 22

Closure: 316L St. Steel
304 St. Steel (non wetted parts)

Seal: Ethylene Propylene
Viton

Standard Connections

Inlet/Outlet: 1" BSPF

Vent: 1/4" BSPF with Plug

Drain: 1/4" BSPF with Plug

Optional Connections: BS4825-3 Tri Clamp, EN1092-1 Flange, ASME Flange, RJTM, DIN2633 Flange, NPTF

PED Status: Compliant with 2014/68/EU



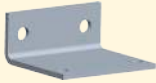
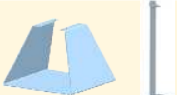
Exceptions: Group 1 liquids - Explosive

ATEX: Compliant with 2014/34/EU

| | | 51 Series | 52 Series | 53 Series | 54 Series | 55 Series | 56 Series |
|--------------|---------|------------|------------|------------|------------|------------|------------|
| Fluid Groups | Liquids | Groups 1+2 | Groups 1+2 | Groups 1+2 | Groups 1+2 | Groups 1+2 | Groups 1+2 |
| | Gas | Group 2 | Groups 1+2 | Groups 1+2 | Group 1 | - | Groups 1+2 |
| Marking | | SEP + CE | CE | CE | SEP | SEP | CE |

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request. For full details on any of our housings please contact the Sales Office or refer to individual datasheets available upon request.

50 Series Accessories

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| <p>Pressure Gauge and Vent Valve Kit 1/4" BSPM, 63mm 316 St.St gauge, 0-27 bar, Perspex front</p>  |
| <p>Ball Valve and Nipple 1/4"-1" BSPF, 316 St.St, Reduced bore - PTFE seat</p>  |
| <p>Mounting Bracket St.St mounting bracket with screws</p>  |
| <p>Stands Stand + bolts for inverted base mounting or vertical stand for 10 and 20" housings</p>  |



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