

GASFENDER™ GSWF INLINE GAS FILTERS

PTFE MEMBRANE FILTERS FOR MOST SPECIALITY GASES

Cobetter's Gasfender™ GSWF Series in-line gas filters are compact, yet provide high flow and low pressure drop, making them ideal for a range of specialty gases. These filters with a PTFE membrane supported by PFA, offer superior corrosion resistance and excellent chemical compatibility with a wide range of process gases and materials, while providing 0.003µm filtration.



| FEATURE | BENEFIT |
|--|--|
| Electro-polished 316L stainless steel | Provides superior corrosion resistance |
| Pleated PTFE membrane and PFA support structure | High compatibility with nearly all speciality gases High flow rates & low pressure drops |
| Industry standard fittings and lengths for easy installation* | Easy installation into new and existing gas panels, gas cabinets, gas supply sticks, equipment, and tools. |
| Quality manufacturing | 100% helium leak tested, 100% integrity tested, cleanroom manufactured and double-bagged packaged |

Typical Applications

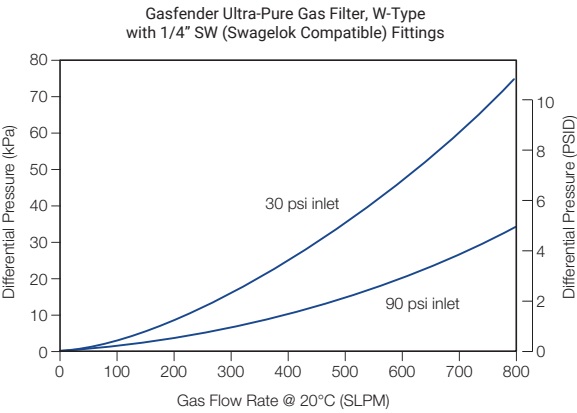
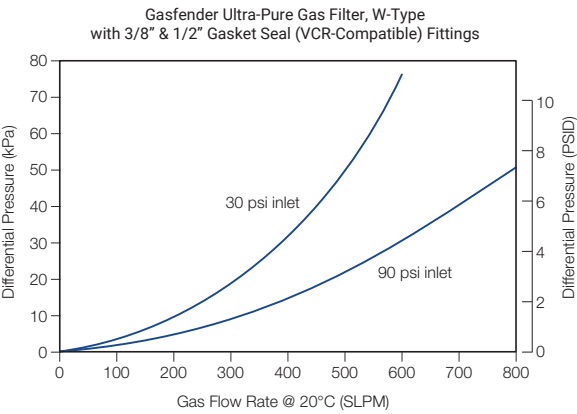
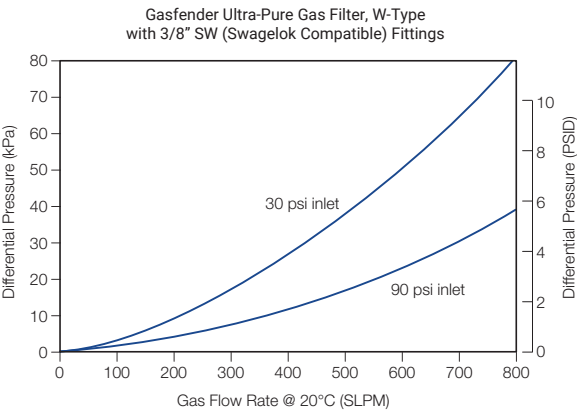
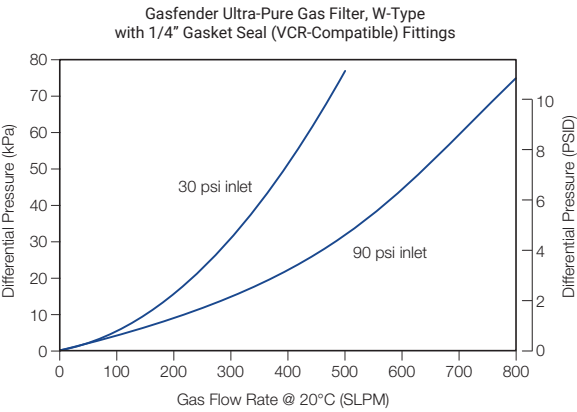
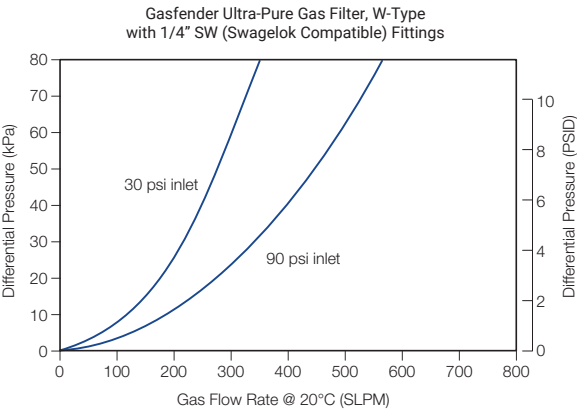
- Gas panels
- Gas cabinets
- Gas supply sticks
- Speciality Gases

MATERIALS AND SPECIFICATIONS

| | |
|--|---|
| Filter media | PTFE |
| Media support | PFA |
| Internal O-ring | Encapsulated FKM |
| Filter housing | Electropolished 316L Stainless Steel |
| Internal surface finish | ≤ 20 µin Ra (≤ 7 µin Ra option) |
| Removal rating | 0.003 µm |
| Fittings | SW (Swagelok® compatible), Gasket Seal (VCR® compatible) |
| Fitting size* | 1/4", 3/8", or 1/2" |
| Max. operating pressure | 5.2 MPa (754 psi) at 121°C |
| Max. differential pressure | Forward: 0.69 MPa (100 psi) at 21°C Reverse: 0.40 MPa (58 psi) at 21°C |
| Max. operating temperature | 121°C |
| Leak rating - helium leak tested | 10 ⁻⁸ Pa m³/s |
| Packaging (double-bagged with N2 purge) | Inner vacuum sealed PE bag; Outer Mylar (aluminized) bag |

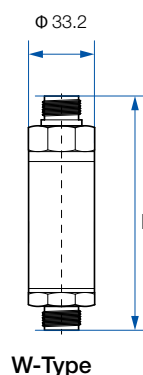
* See ordering information for specific lengths, fitting types, and sizes.

FLOW CURVES



ORDERING INFORMATION

| Part Number | Fittings | Inlet | Outlet | Overall Length |
|-------------------|-----------------------------------|-------|--------|-----------------------|
| GSFWFNM03VMF4L41S | 1/4" Gasket Seal (VCR Compatible) | Male | Female | 141.0 ±1.0 mm (5.55") |
| GSFWFNM03VMM4L27S | 1/4" Gasket Seal (VCR Compatible) | Male | Male | 127.0 ±1.0 mm (5.00") |
| GSFWFNM03VMM8L27S | 1/2" Gasket Seal (VCR Compatible) | Male | Male | 127.0 ±1.0 mm (5.00") |
| GSFWFNM03VMM6L27S | 3/8" Gasket Seal (VCR Compatible) | Male | Male | 127.0 ±1.0 mm (5.00") |
| GSFWFNM03VMM8L34S | 1/2" Gasket Seal (VCR Compatible) | Male | Male | 134.0 ±1.0 mm (5.28") |
| GSFWFNM03SMM4L13S | 1/4" SW (Swagelok Compatible) | Male | Male | 113.0 ±1.0 mm (4.45") |
| GSFWFNM03SMM4L41S | 1/4" SW (Swagelok Compatible) | Male | Male | 141.0 ±1.0 mm (5.55") |
| GSFWFNM03SMM6L18S | 3/8" SW (Swagelok Compatible) | Male | Male | 118.0 ±1.0 mm (4.65") |
| GSFWFNM03SMM6L48S | 3/8" SW (Swagelok Compatible) | Male | Male | 148.0 ±1.0 mm (5.83") |
| GSFWFNM03SMM8L18S | 1/2" SW (Swagelok Compatible) | Male | Male | 118.0 ±1.0 mm (4.65") |
| GSFWFNM03SMM8L48S | 1/2" SW (Swagelok Compatible) | Male | Male | 148.0 ±1.0 mm (5.83") |



*3/8" gasket seal fittings use 1/2" nuts. Please call your local Banner Industries representative if there are any questions.

** For 7Ra EP internal surface finish, replace 'S' at the end of the selected part number with 'XS'



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www.bannerindustries.com | Technical Sales: filtration@bannerindustries.com

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