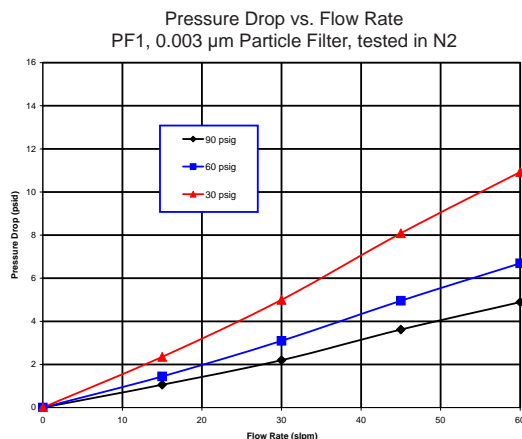


MicroTorr purifiers are the most complete and reliable solution for Point-of-Use (POU) gas purification. Combining model size with a selection of gas-specific purification materials, MicroTorr purifiers can be tailored to many different customer applications, while maintaining impurity removal to Part-Per-Billion (ppbV) levels or better. Optional valves and a 0.003 micron particle filter are available as well as custom subsystem configurations.

Competitive Advantages and Benefits:

- **Reliability.** Uncompromised process consistency and yield improvement.
- **Performance.** State-of-the-art purification technology, low pressure drop, and long lifetimes.
- **Regenerability.** Most MicroTorr media are factory regenerable, minimizing potentially hazardous waste.
- **Quality.** 316L stainless steel, Helium leak checked, pressure tested, and analytical testing to Part-per-Trillion (pptv) levels.
- **Support.** Lifetime estimation and regeneration service available through SAES Pure Gas Sales Network.



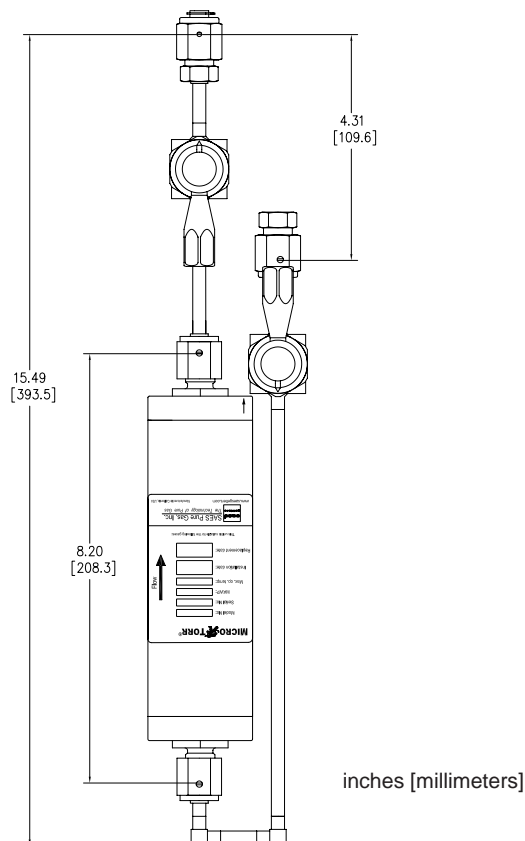
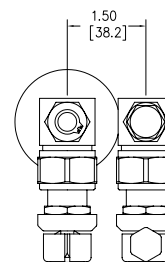
Ordering Information

	PG1	- XXX	FV
Model	Media	Options	
PG1	202, 203, 206, 302, 403, 404, 502, 702, 902, 903, 904, 905, 906	FV Filter and Valves	

Example: PG1-502FV
 Model: PG1 Media: 502 Options: Filter and Valves

PG1

- **Lifetime**
Consult factory for specific lifetimes
- **Maximum Flow: 15 slpm***
- **Nominal Flow: 10 slpm***
- **Maximum Pressure: 250 psig**
- *See reverse for Arsine & Phosphine flowrates.





Mechanical Specifications

PG1-*FV	PG1-502FV (Arsine/Phosphine)
15 slpm	14 slpm
10 slpm	7 slpm
Body-316L Stainless Steel	Body-316L Stainless Steel
0.003 micron Metal	0.003 micron Metal
1/4" Manual Diaphragm	1/4" Manual Diaphragm
250 psig (17.3 barg) @ 40°C	250 psig (17.3 barg) @ 40°C
40°C (104°F)	40°C (104°F)
1/4" FVCR	1/4" FVCR
1/4" MVCR	1/4" MVCR
15.49"±.03 [393.4mm±0.8]	15.49"±.03 [393.4mm±0.8]
2.00"±.03 [50.8mm±.08]	2.00"±.03 [50.8mm±.08]
5.00" [127.0mm]	5.00" [127.0mm]
Yes	Yes
1x10 ⁻⁹ atm cc/sec of He	1x10 ⁻⁹ atm cc/sec of He
5.1 lbs (2.3 kg)	5.1 lbs (2.3 kg)

*The 3 digit number found in the model number equates to the "Media" row in the table below.

Purification and Removal Capabilities

Media	Gases Purified	Impurities Removed	Outlet Performance	Regenerable	Dangerous Goods (DG) Classification
202	Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, O ₂ , Xe	H ₂ O	< 1 ppbV	YES	Non-DG
203	Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, O ₂ , Xe	H ₂ O, CO ₂ , Acids, Bases, Organics, Refractory Compounds*	< 100 pptV < 10 pptV	YES	Non-DG
206	CO	H ₂ O	< 1 ppbV	YES	Non-DG
302	B ₂ H ₆ , BCl ₃ , BF ₃ , CCl ₄ , Cl ₂ , CO ₂ , GeCl ₄ , GeH ₄ , H ₂ S, H ₂ Se, HBr, HCl, N ₂ O, NO, SiCl ₄ , SiF ₄ , SiH ₂ Cl ₂ , SiHCl ₃ , SO ₂	H ₂ O	< 1 ppbV	NO	Non-DG
403	Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, Xe	Acids, Bases, Organics, Refractory Compounds*	< 1 ppbV	NO	Non-DG
404	CO ₂ , C ₂ H ₂ , Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, Xe	NMHC	< 1 ppbV	YES	Non-DG
502	PH ₃ , AsH ₃	H ₂ O, O ₂	< 1 ppbV	NO	Non-DG
702	NH ₃ , C ₂ H ₇ N, C ₂ H ₈ N ₂	H ₂ O, O ₂ , CO ₂	< 1 ppbV	YES	DG - UN3089 Class 4.1
902	Ar, He, Kr, N ₂ , Ne, Xe	H ₂ O, O ₂ , CO, CO ₂ , H ₂ , NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2
903	Ar, He, Kr, N ₂ , Ne, Xe	H ₂ O, O ₂ , CO, CO ₂ , H ₂ Acids, Bases, Organics, Refractory Compounds*	< 100 pptV < 10 pptV	YES	DG - UN2881 Class 4.2
904	H ₂	H ₂ O, O ₂ , CO, CO ₂ , NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2
905	C ₂ F ₆ , C ₂ H ₆ , C ₃ F ₈ , C ₃ H ₈ , C ₂ F ₄ H ₂ , C ₄ F ₈ , C ₄ H ₁₀ , CCl ₄ , CF ₄ , CH ₄ , CHF ₃ , SF ₆	H ₂ O, O ₂ , CO, CO ₂ , H ₂ , NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2
906	CDA, O ₂	H ₂ O, CO, CO ₂ , NMHC	< 1 ppbV	YES	Non-DG

*Organic compounds (C>5) measured as Toluene. Acid compounds (SO₂, NO_x, H₂S...) measured as SO₂. Base compounds (NH₃, amines...) measured as NH₃. Silicon/Refractory compounds (HMDSA, HMDSO, TMS) measured as HMDSO

Other Sizes Available

Model Number	MC1	MC50	MC190	MC200	MC400	MC450	MC500	MC1500	MC2525	MC2550	MC3000	MC4500	MC9000
Maximum Flow (slpm)	5	10	50	50	60	75	100	250	300	500	500	1000	1000
Average Flow (slpm)	0.5	1.5	5	5	9	10	12	40	80	80	80	200	300