FTH Gas Filters

High Pressure Gas Filters

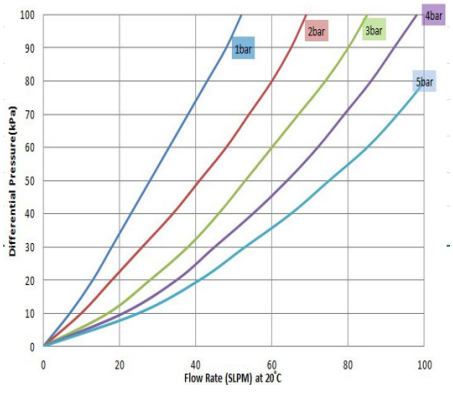


Specifications

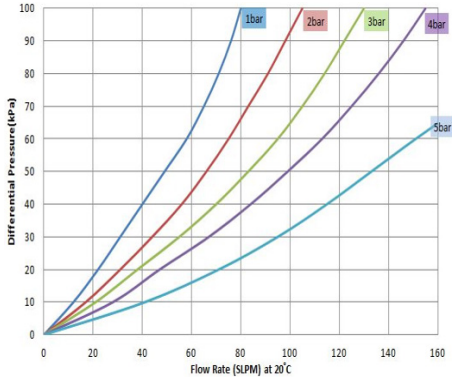
Size	1/4", 1/2"	
Removal Rating	≥0.002μm	
Retention	Greater than 99.9999999% Removal of all particles down to 0.002μm	
Rated Flow @ 10^9	60 SLPM 120 SLPM 200 SLPM	
Material	Filter element	316L Stainless Steel Hastelloy C-22
	Electropolished housing	316L Stainless Steel 316L Stainless Steel VAR Hastelloy C-22
Element Operating Condition	Maximum inlet pressure Maximum differential pressure Maximum operating temperature	21 Mpa (210kgf/cm^2) at 20°C 15 Mpa (153kgf/cm^2) at 20°C 460°C (Inert gas)
Helium Leak Rating	1 x 10^{-9} atm·cc/sec	
Surface Finish Interior	BA: Ra ≤ 10 μin, Ry ≤ 3 μm EP: Ra ≤ 5 μin, Ry ≤ 0.7 μm	

Flow Curve

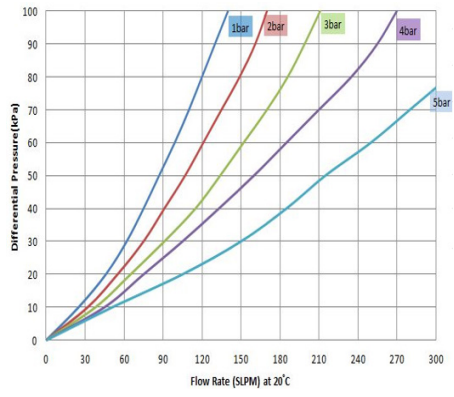
[FTH-60 SLPM]



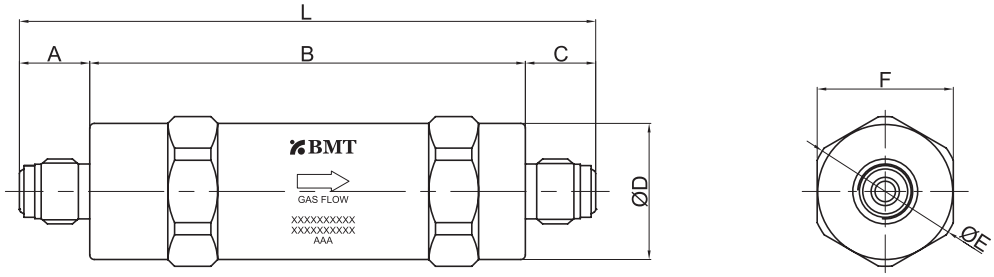
[FTH-120 SLPM]



[FTH-200 SLPM]



Dimensions



Male BVC

Connection Size	Part No.	Dimensions (mm)						
		A	B	C	D (Φ)	E (Φ)	F	L
Male BVC	FTH-SMS-VM4-60-P FTH-HMH-VM4-60-P	15.5	53	15.5	31.5	36	32	84
	FTH-SMS-VM8-60-P FTH-HMH-VM8-60-P	19	53	19	31.5	36	32	91
	FTH-SMS-VM4-120-P FTH-HMH-VM4-120-P	15.5	96	15.5	33.5	37	34	127
	FTH-SMS-VM8-120-P FTH-HMH-VM8-120-P	19	96	19	33.5	37	34	134
	FTH-SMS-VM4-200-P FTH-HMH-VM4-200-P	15.5	98	15.5	36.5	41	37	129
	FTH-SMS-VM8-200-P FTH-HMH-VM8-200-P	19	98	19	36.5	41	37	136

NOTE:
·Dimensions and Drawings are for reference only and are subject to change without prior notice.
·Unless otherwise specified, all dimensions are in millimeters.

Ordering Information

FTH	-	A	B	-	C	D	-	E	-	F
FTH		SM	S		VM	4		60	-	P

Standard feature
Optional

A	Materials	
	SM	316L Stainless Steel
	DM	316L Stainless Steel VAR
	HM	Hastelloy C-22

B	Element Material	
	S	316L Stainless Steel
	H	Hastelloy C-22

C	Connection Type	
	VM	Male BVC (BMT Vacuum Coupling)
	S	SUPERLOK Tube Fitting

D	Connection Size			
	ASTM Tube			
	Designator	Nominal Size	Outside Diameter	Wall Thickness
	4	1/4 in.	6.35 mm	1.00 mm
	6	3/8 in.	9.53 mm	1.00 mm
	8	1/2 in.	12.7 mm	1.24 mm
	12	3/4 in.	19.05 mm	1.65 mm

E	Rated Flow(SLPM)	
	60	60 SLPM
	120	120 SLPM
	200	200 SLPM

F	Wetted Surface Grade	
	BA is standard.	
	P	EP

Part Number Examples

	FTH-SMS-VM4-60-P		FTH-HMH-VM8-60-P	
Series	FTH	FTH series	FTH	FTH series
Material	SM	316L Stainless Steel	HM	Hastelloy C-22
Element Material	S	316L Stainless Steel	H	Hastelloy C-22
Rated Flow(SLPM)	60	60 SLPM	60	60 SLPM
Connection Type	VM	BVC Male	VM	BVC Male
Connection Size	4	1/4”	8	1/2”
Grade	P	EP grade	P	EP grade

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