

# D07-23 Selection Guide

D07-[ ] t [ ] ggg [ ] rrrr [ ] ff [ ] s [ ] m [ ] d

## [t] Type Number

[23F] MFC  
[23FM] MFM

## [ggg] Gas

Please contact Helios Technologies for assistance in choosing the correct code for your particular gas.

[013] N<sub>2</sub>  
[007] H<sub>2</sub>  
[000] Mixture Gases (please consult [d] for details)

## [rrrr] Full Scale Flow Range

[020L]	20 slm	[200L]	200 slm
[030L]	30 slm	[250L]	250 slm
[050L]	50 slm	[000C]	Customized Full Scale (please consult [d] for details)
[100L]	100 slm		
[150L]	150 slm		

## [ff] Inlet and Outlet Fittings

[GG] Swagelok® 6mm (F.S.≤60 slm)  
[DD] Swagelok 8mm (F.S.≤200 slm)  
[JJ] Swagelok 10mm  
[CC] Swagelok 1/4" (F.S.≤60 slm)  
[HH] Swagelok 3/8"  
[PP] Swagelok 1/2"  
[EE] VCR® 1/2"  
[QQ] VCO® 1/2" male  
[XX] Customized Fittings (please consult [d] for details)

## [s] Seal Materials

[V] Viton®  
[T] Teflon®

## [m] Mounting Position

[H] Horizontal  
[E] HESD (Horizontal Edge Side Down)  
[U] Vertical Inlet Up  
[D] Vertical Inlet Down

## [d] Description

[S] Customized Requirements

Viton® and Teflon® are registered trademarks of DuPont™.  
VCR®, VCO® and Swagelok® are registered trademarks of Swagelok® Company.

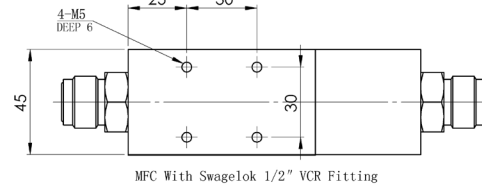
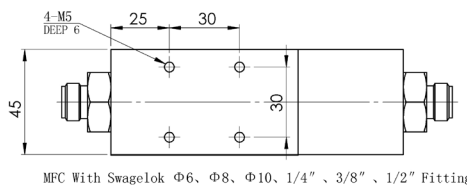
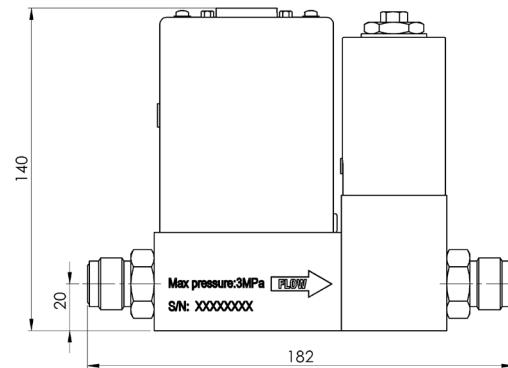
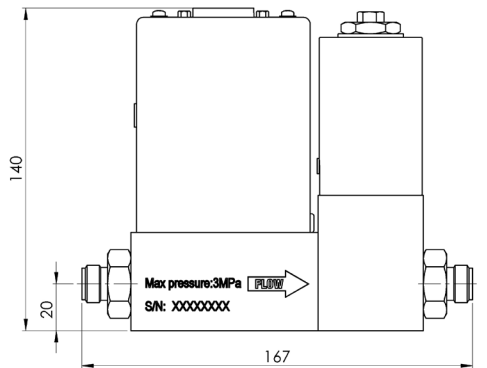


**HELIOS TECHNOLOGIES, INC.**

15032 Red Hill Ave, Suite C  
Tustin, CA 92780 (714) 258-1777  
heliostechinc.com • sales@heliostechinc.com

# D07-23 Analog Elastomer-Sealed Mass Flow Controller/Meter - Medium Flow

Model	D07-23 MFC	D07-23 MFM
Full Scale Range (N <sub>2</sub> )	20 slm – 250 slm	
Control Range	2 - 100% F.S.	
Valve Type	Solenoid	-
Valve Rest Position	Normally Closed	-
Accuracy	± 2% F.S.	
Linearity	± (0.5 – 2) % F.S.	
Repeatability	± 0.2% F.S.	
Step Response Time	< 2 sec	
Temperature Range	5 – 45° C	
Differential Pressure		
20 - 30 slm	50 – 300 kPa / 7 – 42 psi	< 20 kPa / < 2.8
50 - 100 slm	100 – 300 kPa / 14 – 42 psi	< 50 kPa / < 7 psi
150 - 200 slm		
20 – 100 slm	150 – 300 kPa / 21 – 42 psi	
> 100 slm		
Maximum Pressure	2800 kPa(g) (400 psig)	
Leak Integrity	<1×10 <sup>-8</sup> atm-cc/sec He	
Calibration (N <sub>2</sub> )	273.15 K, 101.325 kPa	
Input Voltage	24 V, 400 mA	
Flow Output Signal	4 - 20 mA, 1 - 5 VDC	
Fittings	Swagelok® 6mm, Swagelok 10mm, Swagelok 3/8", VCR®1/2" male, VCO® 1/2" male	
Weight	2.6 kg	1.5 kg



Helios Technologies offers a full range of options to meet your standard or custom specifications. Contact Helios Technologies to discuss your application and specific requirements.

VCR®, VCO® and Swagelok® are registered trademarks of Swagelok® Company.



**HELIOS TECHNOLOGIES, INC.**

15032 Red Hill Ave, Suite C  
Tustin, CA 92780 (714) 258-1777  
heliostechinc.com • sales@heliostechinc.com

06.12