

How To Order Flowstream Multigas Series

Select the appropriate symbols to build a model code:

Example: **OFM - E F - 3 H 51 - T - X 1 B - D10 - R**

SERIES = **OFM**

MATERIAL FOR METER BODY

Anodized Aluminum = **E**
316 Stainless Steel = **I**

SEALS

Viton = **F**
Buna N = **B**

THREAD TYPE FOR THREADED PORT

N = NPT
T = SAE
B = BSPT
P = BSPP

DIGITAL VISUAL DISPLAY WITH OUTPUT

X1A = 4-20mA
X1B = 4-20mA with 2 alarms
X2A = 4-20mA IS
X4A = 0-5 VDC
X4B = 0-5 VDC with 2 alarms
X5A = 0-10 VDC
X5B = 0-10 VDC with 2 alarms
X12A = 1-5 VDC
X12B = 1-5 VDC with 2 alarms
X14A = 2-10 VDC
X14B = 2-10 VDC with 2 alarms
X19A = 0-1000 HZ
X20A = 200-1200 HZ
X22A = pulse out (rate varies with size)
X30A = 0-5 VDC (bi-directional flow)
X40A = visual readout only battery powered

CABLE LENGTH

3 feet standard = **D3**
Specify required cable length in feet = **D**
No cable (battery powered) = **B**

SPECIAL OPTIONS

CLEAN FOR OXYGEN SERVICE = **C1**

CALIBRATE ON ACTUAL GAS

Argon = **R**
Nitrogen = **N**
Helium = **HE**
Carbon Dioxide = **CO2**

NOTE: Consult factory for other gasses and mixes

CALIBRATE AT SPECIFIC PRESSURE IN PSIA

NOTE: Select any specific pressure between 10 and 100 PSIA

EX: Optimize for 10 PSIA pressure = **P10**
Optimize for 45 PSIA pressure = **P45**

VACUUM USE (7.35 to 14.7PSIA) = **ZVAC**

NOTE: Also good for use at normal pressures

GAS SIZING FACTORS

Gas Number	Gas	Multiplier	Accuracy Degredation (+/-)
1	Air	1.00	0.0%
2	Argon	0.82	0.2%
3	CO2	0.61	1.0%
4	Helium	0.92	1.0%
5	Hydrogen	2.05	0.0%
6	Methane	1.65	0.5%
7	Nitrogen	1.03	0.0%
8	Oxygen	0.90	0.5%

For example, selection of a nominal flow size 3M15 would read to a maximum of 300 SCFH of air and would also read to 247 SCFH Argon with additional inaccuracy or .2%

NOTE: These multipliers are to help size and choose the appropriate flow meter. Each gas is displayed directly on the flow meter.

MULTIGAS FLOW SELECTION CHART

SCFH (Air)					
Line Size In Inches	Pipe Size Symbol	Nominal Size		SCFH	Max Pressure Drop PSI
1/4	2	H	20	1	2
	2	H	40	4	2
	2	H	41	25	2
	2	H	42	50	2
	2	H	43	75	2
	2	H	44	100	2
	2	H	45	175	2
	2	H	46	200	2
	2	H	47	300	3
3/8	2	H	48	400	3
	3	H	49	300	2
	3	H	50	400	2
	3	H	51	450	2
	3	H	52	500	2
	3	H	53	600	3
1/2	3	H	54	700	3
	4	H	55	500	2
	4	H	56	600	2
	4	H	57	700	2
	4	H	58	800	2
	4	H	59	900	3
	4	H	60	325	3
	4	H	61	350	3
	4	H	63	375	3
	4	H	64	1000	3
	4	H	65	1100	3
3/4	4	H	66	1200	3
	6	H	67	1000	1.4
	6	H	68	1300	1.8
	6	H	69	1350	1.7
	6	H	70	1400	2.1
	6	H	71	1500	2.4
	6	H	72	1550	3
	6	H	73	1600	2.5
	6	H	75	1650	3
	6	H	76	1700	2.7
	6	H	78	1800	2.9
	6	H	79	1900	3.1
6	H	80	2000	3.3	
SLPM (Air)					
Line Size In Inches	Pipe Size Symbol	Nominal Size		SCCM	Max Pressure Drop PSI
1/4	2	C	30	500	2
	2	P	50	SLPM 2	2
	2	P	51	10	2
	2	P	52	25	2
	2	P	53	50	2
	2	P	54	75	2
	2	P	56	100	2
	2	P	57	150	3
	2	P	58	200	3
3/8	3	P	59	150	2
	3	P	60	200	2
	3	P	64	250	3
	3	P	65	300	3
	3	P	66	350	3
1/2	4	P	67	200	2
	4	P	68	250	2
	4	P	69	300	2
	4	P	70	350	2
	4	P	71	400	2
	4	P	72	450	3
	4	P	74	500	3
	4	P	75	550	3
3/4	6	P	76	500	1.4
	6	P	77	600	1.8
	6	P	79	700	2.4
	6	P	80	800	2.7
	6	P	81	900	3.1
	6	P	82	1000	3.5

How To Order Flowstream for a Single Gas

Select the appropriate symbols to build a model code:

Example: **OFS - E F - 3 A 200 SLPM - T - X 1B - D10 - R**

SERIES

= OFS

MATERIAL FOR METER BODY

Anodized Aluminum = E
316 Stainless Steel = I

SEALS

Viton = F
Buna N = B

THREAD TYPE FOR THREADED PORT

N = NPT
T = SAE
B = BSPT
P = BSPP

GAS

Air	Acetylene	Argon	CO	CO2	Helium	Hydrogen	MAPP GAS	Methane	Nitrogen	Nitrous Oxide	Oxygen
= A	= AC	= R	= CO	= CO2	= HE	= H	= MG	= M	= N	= NO	= O2

PIPE SIZE in Inches

1/4 = 2
3/8 = 3
1/2 = 4
3/4 = 6

MAXIMUM FLOW IN SLPM

128	256	107	128	64	116	256	256	107	128	160	116
*228	457	190	228	114	208	457	457	190	228	286	208
548	1096	457	548	274	498	1096	1096	457	548	685	498
1000	1999	833	1000	500	909	1999	1999	833	1000	1250	909

MAXIMUM FLOW IN SCFH

1/4 = 2	280	560	233	280	140	255	560	560	233	280	350	255
3/8 = 3	500	1000	417	500	250	455	1000	1000	417	500	625	455
1/2 = 4	1200	2400	1000	1200	600	1091	2400	2400	1000	1200	1500	1091
3/4 = 6	2188	4377	1824	2188	1094	1989	4377	4377	1824	2188	2736	1989

NOTE: Lowest maximum flow rates are 50 SCCM and 1 SCFH respectively.

* NOTE: The flows selected in each size must be less than or equal to the maximum.

OUTPUT

Digital Visual Display with Output

X 1A = 4-20mA
X 1B = 4-20mA with 2 alarms
X 2A = 4-20mA Intrinsically Safe
X 4A = 0-5 VDC
X 4B = 0-5 VDC with 2 alarms
X 5A = 0-10 VDC
X 5B = 0-10 VDC with 2 alarms
X 12A = 1-5 VDC
X 12B = 1-5 VDC with 2 alarms
X 14A = 2-10 VDC
X 14B = 2-10 VDC with 2 alarms
X 19A = 0-1000 HZ
X 20A = 200-1200 HZ
X 22A = pulse out (rate varies with size)
X 30A = 0-5 VDC (bi-directional flow)
X 40A = visual readout only (battery powered)

No Visual Display with Output

Z 1A = 4-20mA
Z 2A = 4-20mA Intrinsically Safe
Z 4A = 0-5 VDC
Z 5A = 0-10 VDC
Z 12A = 1-5 VDC
Z 14A = 2-10 VDC
Z 19A = 0-1000 HZ
Z 20A = 200-1200 HZ
Z 22A = pulse out (rate varies with size)
Z 30A = 0-5 VDC (bi-directional flow)

CABLE LENGTH

3 feet standard = D3
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SPECIAL OPTIONS

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