



Based on our proven panel-mountable 7430, we offer the vertically-connected 7440 with the same scale lengths, flow rates, and cost-effective performance for low-flow applications such as purge metering and chemical dosing.

DESCRIPTION

Metering Tube
Borosilicate Kingglass

Internal Components
316L stainless steel, black glass, sapphire, Carboloy, tantalum

Fitting Material
316L SS
Optional: PVDF

Inlet/Outlet Fittings
1/4" FNPT, vertical

O-Ring
Standard: Viton®
Optional: Buna N, EPR, Kalrez®

PERFORMANCE

Capacities
Water 0.56 to 1,800 cc/min
Air 54 to 70,000 cc/min

Scale
65 mm, 150 mm
Direct reading, detachable

Accuracy
± 6% of full scale flow, 65 mm
± 4% of full scale flow, 150 mm

Turndown 10:1

Repeatability 1%

Maximum Temperature
Gases 250° F (121° C)
Liquids 200° F (93° C)

Maximum Pressure
316L SS fittings 200 psig
PVDF fittings 150 psig

Ambient Temperature
33° F to 125° F (1° C to 52° C)

OPTIONS

Alarm
Fiber-Optic or
Inductive Ring Sensor

Certified Calibrations
Conform to ISA RP 16.6

Scales
Any volumetric unit

SPECIFICATIONS:

Tube Number	Float Material	65MM Scale Flow Ranges					
		Air (STP)			Water (70° F)		
		CC/MIN	SCFH	SLPH	CC/MIN	GPH	LPH
1-02-G-021	Glass	66	.14	4.0	0.72	.011	.042
	Sapphire	105	.22	6.2	1.3	.021	.078
	Stainless Steel	200	.42	12.0	3.3	.052	.190
	Carboloy	340	.70	20.0	7.0	.110	.420
1-03-G-041	Tantalum	350	.74	21.0	7.8	.125	.460
	Glass	76	.16	4.6	1.15	.018	.068
	Sapphire	120	.25	7.2	2.10	.032	.125
	Stainless Steel	230	.50	14.0	4.20	.068	.260
1-08-G-061	Carboloy	400	.85	24.0	9.00	.145	.560
	Tantalum	440	.90	26.0	10.00	.165	.620
	Glass	525	1.1	31	9.0	.14	.54
	Sapphire	700	1.5	42	15.5	.24	.95
1-23-G-081	Stainless Steel	1130	2.4	68	29.0	.46	1.70
	Carboloy	1600	3.4	95	46.0	.72	2.80
	Tantalum	1700	3.6	100	50.0	.78	3.00
	Glass	2000	4.2	120	44	.70	2.6
2-14-G-021	Sapphire	2600	5.4	150	68	1.05	4.0
	Stainless Steel	3800	8.2	230	110	1.70	6.6
	Carboloy	5600	12.0	340	170	2.70	10.5
	Tantalum	6000	13.0	360	180	2.90	11
2-34-G-041	Glass	6800	14.5	400	160	2.6	9.5
	Sapphire	9200	19.5	540	240	3.8	14
	Stainless Steel	13000	28.0	800	400	6.2	24
	Carboloy	19000	40.0	1100	600	9.5	36
2-34-G-041	Tantalum	20000	42.0	1200	640	10.0	38
	Glass	19000	40.0	1150	520	8.25	31
	Sapphire	25000	52.0	1500	740	11.50	44
	Stainless Steel	42500	90.0	2550	1200	19.00	72
2-34-G-041	Carboloy	60000	125.0	3600	1700	27.00	105
	Tantalum	70000	145.0	4200	1800	29.00	110

Detail Letter	Scale length	
	65mm	150mm
A	1.525"	1.525"
B	6.03"	10.25"

Tube Number	Float Material	150 MM Scale Flow Ranges					
		Air (STP)			Water (70° F)		
		CC/MIN	SCFH	SLPH	CC/MIN	GPH	LPH
1-03-G-022	Glass	54	.114	3.2	.56	.0088	.033
	Sapphire	82	.175	4.9	1.04	.0160	.062
	Stainless Steel	160	.340	9.8	2.25	.0350	.135
	Carboloy	280	.580	16.5	5.00	.0780	.300
1-04-G-042	Tantalum	300	.620	17.5	5.20	.0840	.320
	Glass	106	.225	6.4	1.24	.0195	.074
	Sapphire	165	.35	10.0	2.35	.0380	.145
	Stainless Steel	320	.68	19.0	5.60	.0900	.340
1-07-G-062	Carboloy	540	1.14	32.0	12.4	.1950	.740
	Tantalum	580	1.24	35.0	13.5	.2100	.820
	Glass	350	.74	21.0	4.7	.074	.28
	Sapphire	500	1.06	30.0	10.0	.160	.60
1-11-G-082	Stainless Steel	820	1.75	50.0	20.5	.330	1.25
	Carboloy	1250	2.60	76.0	34.0	.540	2.05
	Tantalum	1350	2.90	80.0	36.0	.560	2.15
	Glass	850	1.8	50	16.5	.26	1.0
1-27-G-102	Sapphire	1100	2.3	66	27.0	.42	1.6
	Stainless Steel	1600	3.4	100	46.0	.72	2.7
	Carboloy	2300	4.9	140	72.0	1.15	4.4
	Tantalum	2450	5.2	155	80.0	1.25	4.8
2-09-G-002	Glass	2150	4.6	130	52	.84	3.1
	Sapphire	2800	6.0	170	78	1.24	4.7
	Stainless Steel	4400	9.2	260	130	2.05	7.8
	Carboloy	6200	13.5	380	205	3.20	12.5
2-17-G-022	Tantalum	6750	14.0	400	210	3.30	12.5
	Glass	3800	8.2	230	86	1.35	5.2
	Sapphire	5000	10.6	300	130	2.05	7.8
	Stainless Steel	7500	16.0	450	220	3.40	13.0
2-32-G-042	Carboloy	10600	22.5	640	330	5.20	20.0
	Tantalum	11500	24.0	680	360	5.60	21.5
	Glass	9000	19.0	540	215	3.40	13.0
	Sapphire	11400	24.5	700	320	5.00	19.0
2-32-G-042	Stainless Steel	17000	36.0	1000	520	8.20	31.0
	Carboloy	24000	50.0	1450	760	12.2	46.0
	Tantalum	25000	54.0	1500	820	13.0	49.0
	Glass	20500	43.0	122	470	7.5	28.0
2-32-G-042	Sapphire	26000	56.0	1550	700	11.0	42.0
	Stainless Steel	38000	82.0	2300	1120	18.0	68.0
	Carboloy	54000	116.0	3300	1650	26.0	100.0
	Tantalum	60000	125.0	3500	1750	28.0	106.0

ORDERING:

Use the following guide to determine the specific produce number you require.

Meter Series	Tube Number	Float Material	Fitting Material	O-Ring Material	Scale	Optional Alarm Switch
7 4 V	See Specifications Table	Glass - 1 Sapphire - 2 316 SS - 3 Carboloy - 4 Tantalum - 5	316L SS - 1/4" FNPT - 1 PVDF - 1/4" FNPT - 2	EPR - 1 Buna-N - 2 Viton® - 3 Kalrez® - 4	Millimeter - 1 GPH Water@70°F - 2 LPH Water@70°F - 3 CC/MIN Water@STP - 4 SCFH Air@STP - 5 SLPH Air@STP - 6 SCC/MIN Air@STP - 7 Non standard - 8	Without Alarm - 0 Fiber-Optic NPN (Proximity) - 1 Fiber-Optic PNP (Proximity) - 2 Inductive Ring Sensor (Proximity) - 3 Inductive Ring Sensor (Latching) - 4