

7710 Series

STAINLESS STEEL TUBE

This all 316L stainless steel meter utilizes a float and tapered tube design which offers longer, more linear scales, better pointer stability and 40% greater accuracy than competitively priced products. A 4-20mA transmitter option adds to its versatility.



DESCRIPTION

Metering Tube	316L SS
Internal Components	316L SS
Fitting Material	316L SS
Inlet/Outlet Fittings	316L SS NPT or flange, vertical
O-Ring	Standard: Viton® Optional: Buna N, EPR, Kalrez®
Indicator Housing	Die-cast Aluminum / Powder Coated with Chemfilm base (RoHS Compliant) Rated IP66 (Excludes Alarm and Transmitter Cases)

PERFORMANCE

Capacities	Water 33 GPH to 450 GPM Air 4 to 100 SCFM																
Scale	120 mm direct reading, detachable																
Accuracy	± 3% of full scale flow																
Turndown	10:1																
Repeatability	1 %																
Maximum Temperature	<table border="1"> <thead> <tr> <th>O-Ring Material</th> <th>Max Temperature</th> </tr> </thead> <tbody> <tr> <td>EPR</td> <td>225° F (107° C)</td> </tr> <tr> <td>Buna-N</td> <td>275° F (135° C)</td> </tr> <tr> <td>Viton®</td> <td>350° F (177° C)</td> </tr> <tr> <td>Kalrez®</td> <td>400° F (204° C)</td> </tr> </tbody> </table>	O-Ring Material	Max Temperature	EPR	225° F (107° C)	Buna-N	275° F (135° C)	Viton®	350° F (177° C)	Kalrez®	400° F (204° C)						
O-Ring Material	Max Temperature																
EPR	225° F (107° C)																
Buna-N	275° F (135° C)																
Viton®	350° F (177° C)																
Kalrez®	400° F (204° C)																
Maximum Pressure	NPT fittings 1,500 psi SS flange class <table border="1"> <thead> <tr> <th>Temp F</th> <th>150#</th> <th>300#</th> <th>600#</th> </tr> </thead> <tbody> <tr> <td>200°</td> <td>225 psi</td> <td>600 psi</td> <td>1,200 psi</td> </tr> <tr> <td>300°</td> <td>200 psi</td> <td>540 psi</td> <td>1,100 psi</td> </tr> <tr> <td>400°</td> <td>180 psi</td> <td>515 psi</td> <td>1,000 psi</td> </tr> </tbody> </table>	Temp F	150#	300#	600#	200°	225 psi	600 psi	1,200 psi	300°	200 psi	540 psi	1,100 psi	400°	180 psi	515 psi	1,000 psi
Temp F	150#	300#	600#														
200°	225 psi	600 psi	1,200 psi														
300°	200 psi	540 psi	1,100 psi														
400°	180 psi	515 psi	1,000 psi														
Ambient Temperature	-40° F to 125° F (-40° C to 52° C)																

OPTIONS

Alarm	Single or dual, Inductive Slot Sensor 4-20 mA transmitter (See page 62)
Certified Calibrations	Conform to ISA RP 16.6
CRNs	All Canadian provinces
Scales	Any volumetric unit
High Ambient Temp.	See meter maximum temperature.

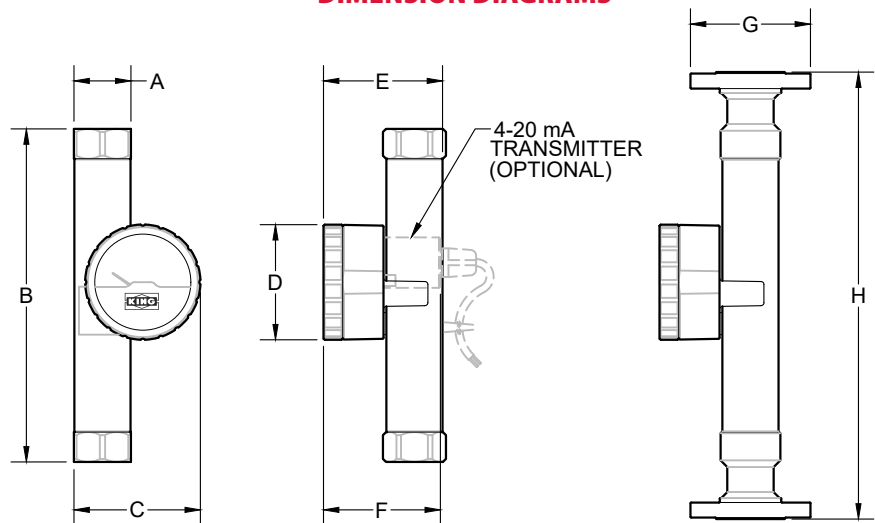
7710 Specifications

STAINLESS STEEL TUBE

Water Order Number	Full Scale Flow GPM-Water
706	33.0 GPH - 1/2" FNPT/ Flange
708	1.1 GPM - 1/2" FNPT/ Flange
710	2.0 GPM - 1/2" FNPT/ Flange
712	4.0 GPM - 1/2" FNPT/ Flange
714	6.0 GPM - 1/2" FNPT/ Flange
716	5.0 GPM - 1" FNPT/ Flange
718	10.0 GPM - 1" FNPT/ Flange
720	16.5 GPM - 1" FNPT/ Flange
722	25.0 GPM - 1" FNPT/ Flange
724	35.0 GPM - 1 1/2" FNPT/ Flange
726	60.0 GPM - 1 1/2" FNPT/ Flange
728	76.0 GPM - 2" FNPT/ Flange
730	100.0 GPM - 2" FNPT/ Flange
732	120.0 GPM - 2" FNPT/ Flange
734	152.0 GPM - 2" FNPT/ Flange
736	150.0 GPM - 3" Flange
738	225.0 GPM - 3" Flange
740	300.0 GPM - 4" Flange
742	375.0 GPM - 4" Flange
744	450.0 GPM - 4" Flange

Air Order Number	Full Scale Flow SCFM - Air
707	4.0 SCFM - 1/2" FNPT
709	8.0 SCFM - 1/2" FNPT
711	16.5 SCFM - 1/2" FNPT
713	24 SCFM - 1/2" FNPT
715	20 SCFM - 1" FNPT
717	42 SCFM - 1" FNPT
719	76 SCFM - 1" FNPT
721	100 SCFM - 1" FNPT

DIMENSION DIAGRAMS



Water Order Number	Dimensions (Inches) FNPT Connections						150 # Flange		300 # Flange	
	A	B	C	D	E	F	G	H	G	H
706 - 714	1.30	11	4.32	4.8	3.92	4.87	3.50	13.125	3.75	13.625
716 - 722	1.88	13.24	4.86	4.8	4.50	4.87	4.25	16.75	4.88	17.500
724 - 726	2.34	13.864	5.24	4.8	4.96	4.87	5.00	18.625	6.12	19.250
728 - 734	3.46	13.875	6.35	4.8	6.08	4.87	6.00	17.156	6.50	17.786
736 - 738	4.46	—	7.26	4.8	7.08	4.87	7.50	17.867	8.25	18.867
740 - 744	5.49	—	8.24	4.8	8.11	4.87	9.00	18.562	10.00	19.696

Air Order Number	Dimensions (Inches) FNPT Connections						150 # Flange		300 # Flange	
	A	B	C	D	E	F	G	H	G	H
707 - 713	1.30	11	4.32	4.8	3.92	4.87	3.50	13.125	3.75	13.625
715-721	1.88	13.24	4.86	4.8	4.50	4.87	4.25	16.75	4.88	17.500

ORDERING:

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

7	7									
---	---	--	--	--	--	--	--	--	--	--

Meter Series	Connection Type	Float Material	O-Ring Material	Alarm/Transmitter	Order Number	CRN
Std. Temp - 771	FNPT Connections - 1	316L SS - 2	EPR - 1	None - 0	See Specifications	Non-CRN - Blank
High Temp - 77H	150# R.F. Flanged - 2		Buna-N - 2	With Transmitter - T		CRN Req'd - CRN
	300# R.F. Flanged - 3		Viton® - 3	One Alarm - A		
	600# R.F. Flanged*		Kalrez® - 4	Two Alarms - D		

*Call factory for 600# R.F. flange availability