

Wedge meter

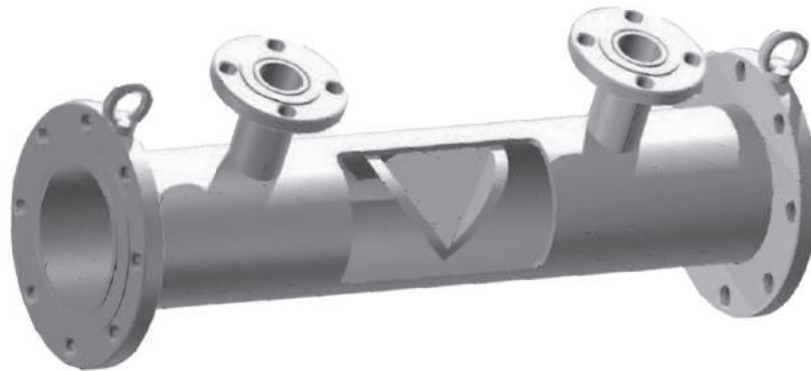
Model : F770

Spec. sheet no. FD07-04

Description

The flow element consists of a body and wedge flow restriction. This restriction creates a differential pressure in proportion to the square of the volumetric flow rate. The wedge restriction has no critical surface dimensions, or sharp edges, that will affect measurement accuracy as the result of normally expected wear.

EAC



Advantages

- Bi-directional flow
- Low reynolds number measurement, Rd500
- Minimum upstream and downstream pipe measurement

Specification

Measuring fluid

Liquid, Gas and steam

Wedge element standard H/D ratios

0.2 ~ 0.5

Material

304SS, 316SS, 316L SS and Carbon steel
Special materials are available

Accuracy

- Calibrated
±1.0 % of full scale when operated within the calibrated range
- Uncalibrated :
±5 % of actual flow when using nominal K_d^2 from sizing program. Applies to bi-directional flow
- Bi-directional :
Same as above when K_d^2 designated as reverse flow coefficient

Pipe size

0.5" ~ 24"

Rangeability

5:1

WISE[®]

Main order

Ordering information

1. Base model

F770 Wedge meter

2. Line size

A01	1/2"	J01	15A
A02	3/4"	J02	20A
A03	1"	J03	25A
A04	1 1/2"	J04	40A
A05	2"	J05	50A
A06	3"	J06	80A
A07	4"	J07	100A
A08	6"	J08	150A
A09	8"	J09	200A
A10	10"	J10	250A
A11	12"	J11	300A
A12	14"	J12	350A
A13	16"	J13	400A
A14	18"	J14	450A
A15	20"	J15	500A
A16	24"	J16	600A
ZZZ	Other		

3. Connection

A01	150Lb RF	J01	10K RF
A02	300Lb RF	J02	16K RF
A03	600Lb RF	J03	20K RF
A04	900Lb RF	J04	30K RF
A05	1500Lb RF	J05	40K RF
A06	2500Lb RF	J06	63K RF
A11	150Lb FF	J11	10K FF
A12	300Lb FF	J12	16K FF
A13	600Lb FF	J13	20K FF
A14	900Lb FF	J14	30K FF
A15	1500Lb FF	J15	40K FF
A16	2500Lb FF	J16	63K FF
A21	150Lb RTJ	J21	10K RTJ
A22	300Lb RTJ	J22	16K RTJ
A23	600Lb RTJ	J23	20K RTJ
A24	900Lb RTJ	J24	30K RTJ
A25	1500Lb RTJ	J25	40K RTJ
A26	2500Lb RTJ	J26	63K RTJ
ZZZ	Other	B00	B.W

4. Tap type

4	1 1/2", Flanged, 1 Pair
5	2", Flanged, 1 Pair
6	2 1/2", Flanged, 1 Pair
7	3", Flanged, 1 Pair
O	Other

5. Wedge material

6S	316SS
6L	316L SS
ZZ	Other

6. Pipe material

6B	A106-B
6C	A106-C
ZZ	Other

7. Option

C	Calibration test
O	Other
N	None

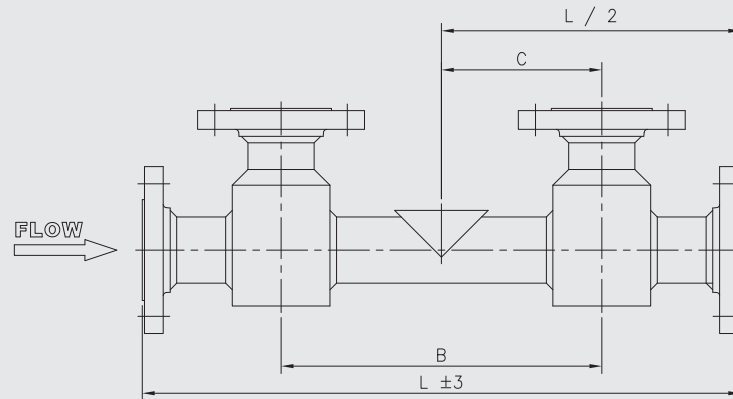
Sample ordering code

1	2	3	4	5	6	7
F770	A01	A01	4	6S	6B	C



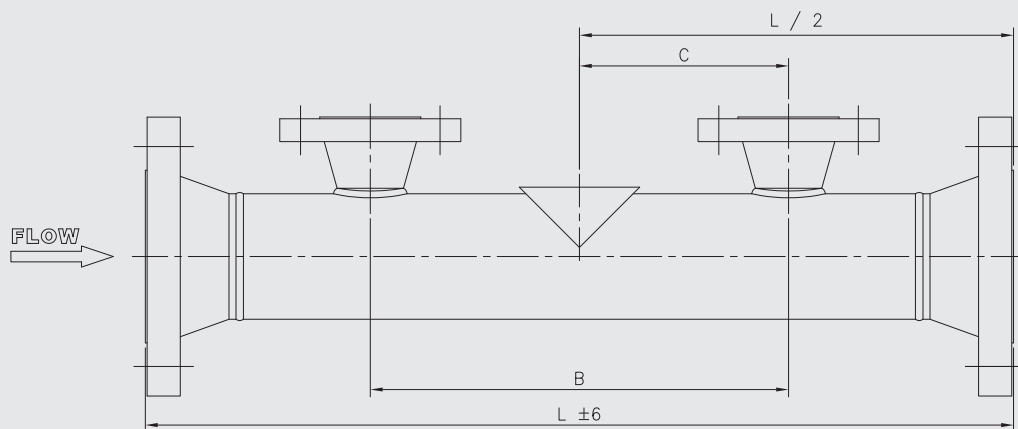
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Dimension



PIPE SIZE 1/2"(15A) ~ 3"(80A) / SO RF FLANGED TYPE

PIPE SIZE	L (mm)			B (mm)	C (mm)
	150LB	300LB	600LB		
1/2"(15A)	460	470	480	165	82.5
1"(25A)	485	495	505	179	89.5
1 1/2"(40A)	510	520	530	203	101.5
2"(50A)	535	545	555	213	106.5
3"(80A)	610	625	635	263	131.5



PIPE SIZE 4"(100A) ~ 24"(600A) / WN RF FLANGED TYPE

PIPE SIZE	L (mm)			B (mm)	C (mm)
	150LB	300LB	600LB		
4"(100A)	905	920	990	381	190.5
6"(150A)	1030	1050	1100	457	228.5
8"(200A)	1095	1115	1170	521	260.5
10"(250A)	1145	1175	1260	597	298.5
12"(300A)	1325	1355	1420	673	336.5
14"(350A)	1400	1430	1485	736	355.5
16"(400A)	1475	1515	1590	775	387.5
18"(450A)	1575	1615	1680	851	425.5
20"(500A)	1690	1725	1790	940	470
24"(600A)	1855	1890	1970	1066	533

Dimension

