

Designed for flanges according to European standard EN 1092-1
 Recommended: Form of flange sealing surface: B2
 PN 40; PN 16; PN 10.

Designed for flanges according to American standard: ASME B16-5-1998
 150 LBS; 300 LBS

Table 2 PARTNUMBERS AND DIMENSIONS CENTRING RINGS

PN 40		PN 16		PN 10		150 LBS		300 LBS	
partno.	dimensions R x S x T	partno.	dimensions R x S x T	partno.	dimensions R x S x T	partno.	dimensions R x S x T	partno.	dimensions R x S x T
F-106AI	2.05.837 72 x 92 x 5	2.05.837	72 x 92 x 5	2.05.837	72 x 92 x 5	2.05.841	72 x 82.5 x 5	2.05.837	72 x 92 x 5
F-106BI	2.05.838 82 x 107 x 5	2.05.838	82 x 107 x 5	2.05.838	82 x 107 x 5	2.05.842	82 x 101.5 x 5	2.05.838	82 x 107 x 5
F-106CI	2.05.839 112 x 142 x 5	2.05.839	112 x 142 x 5	2.05.839	112 x 142 x 5	2.05.843	112 x 133.5 x 5	2.05.844	112 x 146 x 5
F-106DI	2.05.840 142 x 168 x 5	2.05.846	142 x 162 x 5	2.05.846	142 x 162 x 5	2.05.840	142 x 168 x 5	2.05.845	142 x 178 x 5

Table 1 Dimensions

	L	M	V [litre] (intern volume)	EN 1092-1 DN = nominal pipe size	ASME B16-5-1996 NPS = nominal pipe size	Diam. F	Diam. A
F-106AI	66	74	0.149	40	1.5"	39.3	47.5
F-106BI	78	84	0.253	50	2"	51.3	60
F-106CI	108	114	0.559	80	3"	76.5	88.6
F-106DI	138	144	0.961	100	4"	100.5	113.9
F-106EI	193	197	2.25	150	6"	150	167.4
F-106FI	245	248	3.89	200	8"	200.5	217.7
F-106GI	310	312	6.32	250	10"	255.7	274.2

Table 3 STRAIGHT PIPE LENGTH REQUIREMENTS (in number of diameters F)

	Upstream	Downstream
one 90° bend before meter	10	4
two 90° bend before meter	13	4
two 90° bend in two planes	20	4
three 90° bend in three planes	30	4
reduction before meter	10	4
expansion before meter	20	4
pressure reducing valve / control valve / partially closed valve before meter	30	4

1. Diameter F and centring rings:



Care should be taken to install the F-106 concentrically in the line in such a way that the internal diameter of the pipe or flange does not cover the free diameter F.
 This means that the internal diameter of the pipe or flange should be chosen greater than the diameter F.
 The centring rings from table 2 can be used to align the instrument with the flanges.

2. Straight pipe lengths:

The F-106 should be mounted with a minimum of straight pipe diameters upstream and downstream. See table 3.
 If this is not done, flow measurement errors may occur.

Check document 7.05.445 for the height of the multibus instrument.
 Dimensions subject to change without notice.

Tolerances ± 0.2 unless otherwise mentioned

Title: Dimensional drawing F-106I		Drawer : B.K.	Revision Description: Information added to drawing.		
Date: 15-07-2005		Checked :			
Date: 29-05-2009		Date: 29-05-2009	Rev. by: L.E.	Scale:	A3
 www.BRONKHORST.COM		Projection:  Third Angle Dimensions: Metric (mm)	Drawing no.: 7.15.100	Rev.: B	Page: 1-1