

**F-107I PN40**

Exchangeable with flange:  
European standard EN 1092-1  
Number flange type: 11

Form of flange sealing surface: B1  
Material number: 1.4401  
DN = nominal pipe size

Table 1 **Dimensions PN40**

	DN	A	H	B	V [litre] (intern volume)	Diam. F
F-107AI	40	200	233	-	0.271	39.3
F-107BI	50	200	246	-	0.444	51.3
F-107CI	80	200	279	-	0.969	76.5
F-107DI	100	200	309	-	1.65	100.5
F-107EI	150	275	368	-	5.3	150
F-107FI	200	275	437	-	9.05	200.5
F-107GI	250	275	509	267.5	14.7	255.7

**F-107I 150 LBS**

Exchangeable with flange:  
American standard ASME B16.5-1998  
Flange type: welding neck

End flange facing: 0.06 inch raised face  
Material number: 1.4401  
NPS = nominal pipe size

Table 2 **Dimensions 150 LBS**

	NPS	A	H	B	V [litre] (intern volume)	Diam. F
F-107AI	1.5"	200	221	45.5	0.271	39.3
F-107BI	2"	200	240	57.5	0.444	51.3
F-107CI	3"	200	274	84	0.969	76.5
F-107DI	4"	200	308	108.5	1.65	100.5
F-107EI	6"	250	356	161.5	4.79	150
F-107FI	8"	250	414	210.5	8.19	200.5
F-107GI	10"	250	476	267.5	13.3	255.7

**1. Diameter F:**

Care should be taken to install the F-107 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.

**2. Straight pipe lengths:**


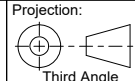
The F-107 should be mounted with a minimum of straight pipe diameters upstream and downstream. See table 3. If this is not done, flow measurement errors may occur.

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

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: <b>Dimensional drawing F-107I DIN PN40 / ANSI 150 LBS</b>		Drawer : B.K.	Revision Description: Layout changed	
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		Projection:  Third Angle Dimensions: Metric (mm)		
Drawing no.: 7.15.101		Rev.: C	Page: 1-1	