

**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

**F-107X 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-107AX	40	200	238	-	0.271	39.3
F-107BX	50	200	251	-	0.444	51.3
F-107CX	80	200	284	-	0.969	76.5
F-107DX	100	200	314	-	1.65	100.5
F-107EX	150	275	373	-	5.3	150
F-107FX	200	275	442	-	9.05	200.5
F-107GX	250	275	514	267.5	14.7	255.7

**F-107X 150 LBS**

Exchangeable with flange:

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


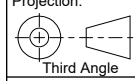
End flange facing: 0.06 inch raised face  
Material number: 1.4401  
NPS = nominal pipe size

Table 2 **Dimensions 150 LBS**

	NPS	A	H	B	V [litre] (intern volume)	Diam. F
F-107AX	1.5"	200	226	45.5	0.271	39.3
F-107BX	2"	200	245	57.5	0.444	51.3
F-107CX	3"	200	279	84	0.969	76.5
F-107DX	4"	200	313	108.5	1.65	100.5
F-107EX	6"	250	361	161.5	4.79	150
F-107FX	8"	250	419	210.5	8.19	200.5
F-107GX	10"	250	481	267.5	13.3	255.7

Dimensions subject to change without notice.

Tolerances ± 0.2 unless otherwise mentioned

Title: <b>Dimensional drawing F-107X DIN PN40 / ANSI 150 LBS</b>		Drawer : L.E.	Revision Description: Layout changed		
		Date: 06-06-2002	 Third Angle		
		Checked : M.H.			Date: 14-06-2016
Dimensions: Metric (mm)		Drawing no.: 7.05.320		Rev.: F	Page: 1-1