

Special Documentation

Proline Promass F 100

Proline Promass 80F, 83F

Reduction in nominal diameter

1 Document function

This manual is Special Documentation. This document describes modifications and additions to the "Dimensions" section of the Technical Information.

2 Affected documentation

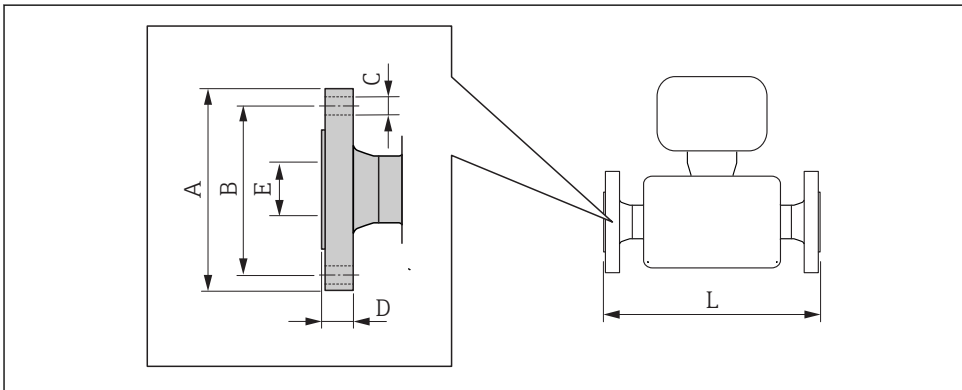
This Special Documentation is an integral part of the following documentation:

Measuring device	Documentation code
Promass F 100	TI01034D
Promass 80F, 83F	TI00101D

3 Dimensions of Promass F 100, 80F, 83F

3.1 Fixed flange EN 1092-1, ASME B16.5, JIS B2220

3.1.1 SI units



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i Length tolerance for dimension L in mm:

- $DN \leq 100$: +1.5 / -2.0
- $DN \geq 125$: +3.5

Flange according to EN 1092-1 (DIN 2501): PN16 with reduction in nominal diameter 1.4404 (F316/F316L)								
DN [mm]	reduction to DN [mm]	Ordering feature "Process connection", Option	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	L [mm]
100	80	DHS	220	180	8 × Ø 18	20	107.1	874
150	100	DJS	285	240	8 × Ø 22	22	159.3	1167
200	150	DLS	340	295	12 × Ø 22	24	206.5	1461
Surface roughness (flange): EN 1092-1 Form B1 (DIN 2526 Form C), Ra 3.2 to 12.5 µm								

Flange according to EN 1092-1 (DIN 2501): PN 40 with reduction in nominal diameter 1.4404 (F316/F316L)								
DN [mm]	reduction to DN [mm]	Ordering feature "Process connection", Option	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	L [mm]
50	40	DFS	165	125	4 × Ø 18	20	54.5	555
80	50	DGS	200	160	8 × Ø 18	24	82.5	840
100	80	DIS	235	190	8 × Ø 22	24	107.1	874
150	100	DKS	300	250	8 × Ø 26	28	159.3	1167
200	150	DMS	375	320	12 × Ø 30	34	206.5	1461
Surface roughness (flange): EN 1092-1 Form B1 (DIN 2526 Form C), Ra 3.2 to 12.5 µm								

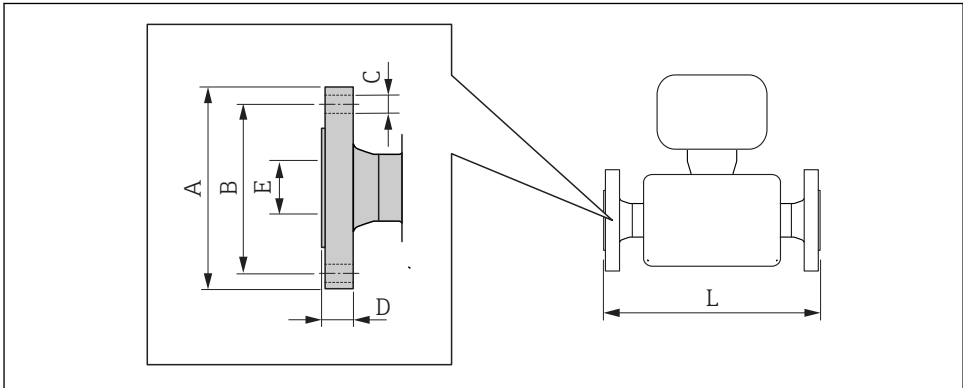
Flange according to ASME B16.5: Class 150 with reduction in nominal diameter 1.4404 (F316/F316L)								
DN [mm]	reduction to DN [mm]	Ordering feature "Process connection", Option	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	L [mm]
50	40	AHS	150	120.7	4 × Ø 19.1	19.1	52.6	550
80	50	AJS	190	152.4	4 × Ø 19.1	23.9	78.0	720
100	80	ALS	230	190.5	8 × Ø 19.1	23.9	102.4	874
150	100	ANS	280	241.3	8 × Ø 22.4	25.4	154.2	1167
200	150	APS	345	298.5	8 × Ø 22.4	29	202.7	1461
Surface roughness (flange): Ra 3.2 to 6.3 µm								

**Flange according to ASME B16.5: Class 300 with reduction in nominal diameter
1.4404 (F316/F316L)**

DN [mm]	reduction to DN [mm]	Ordering feature "Process connection", Option	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	L [mm]
50	40	AIS	165	127	8 × Ø 19.1	22.3	52.6	615
80	50	AKS	210	168.3	8 × Ø 22.3	28.4	78.0	732
100	80	AMS	255	200	8 × Ø 22.3	31.7	102.4	894
150	100	AOS	320	269.9	12 × Ø 22.3	36.5	154.2	1187
200	150	AQS	380	330.2	12 × Ø 25.4	41.7	202.7	1461

Surface roughness (flange): Ra 3.2 to 6.3 µm

3.1.2 US units



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i Length tolerance for dimension L in inch:

- DN ≤ 4": +0.06 / -0.08
- DN ≥ 5": +0.14

**Flange according to ASME B16.5: Class 150 with reduction in nominal diameter
1.4404 (F316/F316L)**

DN [in]	reduction to DN [in]	Ordering feature "Process connection", Option	A [in]	B [in]	C [in]	D [in]	E [in]	L [in]
2	1½	AHS	5.91	4.75	4 × Ø 0.75	0.75	2.07	21.65
3	2	AJS	7.48	6	4 × Ø 0.75	0.94	3.07	28.35

**Flange according to ASME B16.5: Class 150 with reduction in nominal diameter
1.4404 (F316/F316L)**

DN [in]	reduction to DN [in]	Ordering feature "Process connection", Option	A [in]	B [in]	C [in]	D [in]	E [in]	L [in]
4	3	ALS	9.06	7.5	8 × Ø 0.75	0.94	4.03	34.41
6	4	ANS	11.02	9.5	8 × Ø 0.88	1	6.07	45.94
8	6	APS	13.58	11.75	8 × Ø 0.88	1.14	7.98	57.52

Surface roughness (flange): Ra 125 to 250 µm

**Flange according to ASME B16.5: Class 300 with reduction in nominal diameter
1.4404 (F316/F316L)**

DN [in]	reduction to DN [in]	Ordering feature "Process connection", Option	A [in]	B [in]	C [in]	D [in]	E [in]	L [in]
2	1½	AIS	6.5	5	8 × Ø 0.75	0.88	2.07	24.21
3	2	AKS	8.27	6.63	8 × Ø 0.88	1.12	3.07	28.82
4	3	AMS	10.04	7.87	8 × Ø 0.88	1.25	4.03	35.2
6	4	AOS	12.6	10.63	12 × Ø 0.88	1.44	6.07	46.73
8	6	AQS	14.96	13	12 × Ø 1	1.64	7.98	57.52

Surface roughness (flange): Ra 125 to 250 µm

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