

BMS 13 - ISO 7483 1st Edition-1991 For ISO 7005 Flanges  
 SWG Dimensional Tables & Tolerances  
 (All Class Ratings)

Issued by: A D Senior


Date: 1st Jan 2011

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Dimensions in millimetres

Nom Size DN	Centering Ring Outside Diameter <sup>1), 2)</sup>									
	PN 10	PN 16	PN 20	PN 25	PN 40	PN 50	PN 110	PN 150	PN 260	PN 420
10	48	48	-	48	48	-	-	-	-	-
15	53	53	46.5	53	53	52.5	52.5	62.5	62.5	69
20	63	63	56	63	63	66.5	66.5	69	69	75
25	73	73	65.5	73	73	73	73	77.5	77.5	84
32	84	84	75	84	84	82.5	82.5	87	87	103
40	94	94	84.5	94	94	94.5	94.5	97	97	116
50	109	109	104.5	109	109	111	111	141	141	144.5
65	129	129	123.5	129	129	129	129	163.5	163.5	167
80	144	144	136.5	144	144	148.5	148.5	166.5	173	195.5
100	164	164	174.5	170	170	180	192	205	208.5	234
125	194	194	196	196	196	215	240	246.5	253	279
150	220	220	221.5	226	226	250	265	287.5	281.5	316.5
200	275	275	278.5	286	293	306	319	357.5	351.5	386
250	330	331	338	343	355	360.5	399	434	434.5	475.5
300	380	386	408	403	420	421	456	497.5	519.5	547
350	440	446	449	460	477	484.5	491	520	579	
400	491	498	513	517	549	538.5	564	574	641	
450	541	558	548	567	574	595.5	612	638	702.5	
500	596	620	605	627	631	653	682	697.5	756	
600	698	737	716.5	734	750	774	790	837.5	900.5	
650	-	-	773	-		834	866	880		
700	813	807	830	836		898	913	946		
750	-	-	881	-		952	970	1040		
800	920	914	939	945		1006	1024	1076		
850	-	-	990	-		1057	1074	1136		
900	1020	1014	1047	1045		1136	1130	1199		
950			1111			1053	1106	1199		
1000			1161			1114	1157	1250		
1050			1218			1164	1219	1301		
1100			1275			1219	1270	1369		
1150			1326			1273	1327	1437		
1200			1383			1324	1388	1488		
1250			1435			1377	1448			
1300			1492			1428	1499			
1350			1549			1493	1556			
1400			1606			1544	1615			
1450			1663			1595	1666			
1500			1714			1706	1732			

Tolerances For ISO 7483 For ISO 7005 Flanges

	<p align="center">Operational Procedure - Rev 0</p>	<p align="right">NWP 01 - Rev 1</p>
<p align="center">BMS 13 - ISO 7483 1st Edition-1991 For ISO 7005 Flanges SWG Dimensional Tables &amp; Tolerances (All Class Ratings)</p>	<p>Issued by:</p>	<p>A D Senior</p>
	<p>Date:</p>	<p>1st Jan 2011</p>
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|---|
| <p>1) For use with metric bolts to ISO 7005-1, ISO 7005-2 and ISO 7005-3.</p> <p>2) For nominal sizes up to and including DN600, the tolerance on the outside diameter is + 0 / - 0.8, and for nominal sizes above DN600 the tolerance on the outside diameter is + 0 / -1.5.</p> |
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Dimensions in millimetres

	<p align="center">Sealing Element Outside Diameter max.</p>	<p align="center">Sealing Element Inside Diameter for Gasket With Inner Ring min.</p>	<p align="center">Inner Ring Inside Diameter min.</p>
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Nom Size DN	PN 20	PN 10, PN 16, PN 25, PN 40	PN 50	PN 110	PN 150	PN 260, PN 420	PN 20	PN 10, PN 16, PN 25, PN 40	PN 50, PN 110, PN 150, PN 260	PN 420	PN 10, PN 16, PN 25, PN 40	PN 20, PN 50, PN 110, PN 150, PN 260, PN 420
10	-	36.4	-	-	-	-	-	23.6	-	-	15	-
15	32.4	40.4	32.4	32.4	32.4	32.4	18.7	27.6	18.7	18.7	19	14.3
20	40.1	47.4	40.1	40.1	40.1	40.1	26.6	33.6	25	25	24	20.6
25	48	55.4	48	48	48	48	32.9	40.6	31.4	31.4	30	27
32	60.9	66.4	60.9	60.9	60.9	60.9	45.6	49.6	44.1	39.3	39	34.9
40	70.4	72.4	70.4	70.4	70.4	70.4	53.6	55.6	50.4	47.2	45	41.3
50	86.1	86.4	86.1	86.1	86.1	86.1	69.5	67.6	66.3	58.3	56	52.4
65	98.9	103.4	98.9	98.9	98.9	98.9	82.2	83.6	79	69.5	72	63.5
80	121.1	117.4	121.1	121.1	121.1	121.1	101.2	96.6	94.9	91.7	84	77.8
100	149.6	144.4	149.6	149.6	149.6	149.6	126.6	122.6	120.3	117.1	108	103
125	178.4	170.4	178.4	178.4	178.4	178.4	153.6	147.6	147.2	142.5	133	128.5
150	210	200.4	210	210	210	210	180.6	176.6	174.2	171.1	160	154
200	263.9	255.4	263.9	263.9	263.9	263.9	231.4	228.6	225	215.5	209	203.2
250	317.9	310.4	317.9	317.9	317.9	317.9	286.9	282.6	280.6	269.5	262	254
300	375.1	360.4	375.1	375.1	375.1	375.1	339.3	331.6	333	323.5	311	303.2
350	406.8	405.4	406.8	406.8	406.8	406.8	371.1	374.6	364.7		355	342.9
400	464	458.4	464	464	464	464	421.9	425.6	415.5		406	393.7
450	527.5	512.4	527.5	527.5	527.5	527.5	475.9	476.6	469.5		452	444.5
500	578.3	566.4	578.3	578.3	578.3	578.3	526.7	527.6	520.3		508	495.3
600	686.2	675.4	686.2	686.2	686.2	686.2	631.4	634.6	625.1		610	596.9
650	737.3	-	737.3	737.3	737.3		660	-	660		-	660
700	788.3	778.5	788.3	788.3	788.3		711	734	711		710	711
750	845.3	-	845.3	845.3	845.3		762	-	762		-	762
800	896.3	879.5	896.3	896.3	902.5		813	835	813		811	813
850	946.8	-	946.8	946.8	953.3		864	-	864		-	864
900	997.8	980.5	997.8	1004.3	1010.5		914	933	914		909	914
950	1018		1018	1042.6	1087.1		965		965			965
1000	1071.1		1071.1	1098.5	1150.6		1016		1016			1016
1050	1131.5		1131.5	1156.9	1201.4		1067		1067			1067
1100	1182.3		1182.3	1214.1	1258.5		1118		1118			1118
1150	1229		1229	1264.9	1322		1168		1168			1168
1200	1287.1		1287.1	1322	1372.8		1219		1219			1219
1250	1349.4		1347.4	1372.8			1270		1270			1270

Dimensions in millimetres

Sealing Element Outside Diameter max.	Sealing Element Inside Diameter for Gasket With Inner Ring min.	Inner Ring Inside Diameter min.
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Operational Procedure - Rev 0

NWP 01 - Rev 1

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1300	1398.2		1398.2	1423.6			1321		1321			1321
1350	1455.4		1455.4	1480.8			1371		1371			1371
1400	1506.2		1506.2	1531.6			1422		1422			1422
1450	1563.3		1563.3	1588.7			1475		1473			1473
1500	1614.1		1614.1	1645.9			1524		1524			1524