

Transformed.

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION
R 2084**

PIPELINE FLANGES FOR GENERAL USE

MATING DIMENSIONS

1st EDITION

October 1971

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BRIEF HISTORY

The ISO Recommendation R 2084, *Pipeline flanges for general use – Mating dimensions*, was drawn up by Technical Committee ISO/TC 5, *Metal pipes and fittings*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question led to the adoption of Draft ISO Recommendation No. 2084, which was circulated to all the ISO Member Bodies for enquiry in September 1970. It was adopted, subject to a few modifications of an editorial nature, by the following Member Bodies :

Canada	Israel	Sweden
Chile	Italy	Switzerland
Denmark	Japan	Thailand
Finland	Netherlands	Turkey
France	New Zealand	U.A.R.
Germany	Norway	United Kingdom
Greece	Poland	U.S.S.R.
Hungary	Romania	
India	South Africa, Rep. of	

The following Member Body opposed the approval of the Draft :

Belgium

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

PIPELINE FLANGES FOR GENERAL USE

MATING DIMENSIONS

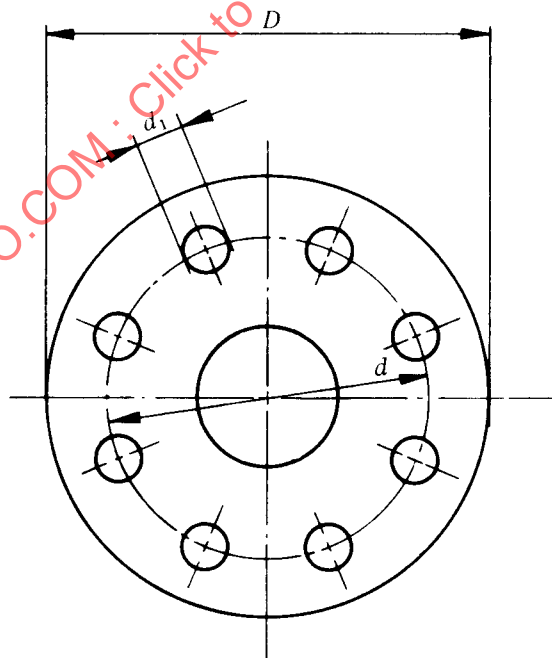
1. SCOPE

This ISO Recommendation tabulates the mating dimensions of all kinds of pipeline flanges for general use.

The same mating dimensions are only indicated once.

There is no nominal diameter in brackets, so that every country can choose nominal diameters suitable for its own usage.

2. SYMBOLS



- DN = nominal diameter of pipeline
- D = outside diameter of flange
- d = pitch circle diameter of bolts
- d_1 = bolt hole diameter (according to ISO Recommendation R 273, medium series)
- Th. = thread of bolts
- n = number of bolts
- PN = nominal pressure in bars

TABLE 1 – Dimensions for PN ≤ 2.5 , PN 6 and PN 10[illegible]

Dimensions in millimetres

Nominal diameter DN	PN 16					PN 25					PN 40				
	D	d	d ₁	Th.	n	D	d	d ₁	Th.	n	D	d	d ₁	Th.	n
6	See PN 40					See PN 40					75	50	11	M10	4
8											80	55	11	M10	4
10											90	60	14	M12	4
15											95	65	14	M12	4
20											105	75	14	M12	4
25											115	85	14	M12	4
32	See PN 40					See PN 40					140	100	18	M16	4
40											150	110	18	M16	4
50											165	125	18	M16	4
65											185	145	18	M16	8
80											200	160	18	M16	8
100											235	190	22	M20	8
125	250	210	18	M16	8	See PN 40					270	220	26	M24	8
150	285	240	22	M20	8						300	250	26	M24	8
175	315	270	22	M20	8						330	280	26	M24	12
200	340	295	22	M20	12						360	310	26	M24	12
225	370	325	22	M20	12						395	340	30	M27	12
250	405	355	26	M24	12						425	370	30	M27	12
300	460	410	26	M24	12	485	430	30	M27	16	515	450	33	M30	16
350	520	470	26	M24	16	555	490	33	M30	16	580	510	36	M33	16
400	580	525	30	M27	16	620	550	36	M33	16	660	585	39	M36	16
450	640	585	30	M27	20	670	600	36	M33	20	685	610	39	M36	20
500	715	650	33	M30	20	730	660	36	M33	20	755	670	42	M39	20
550	775	710	33	M30	20	785	710	39	M36	20	835	740	48	M45	20
600	840	770	36	M33	20	845	770	39	M36	20	890	795	48	M45	20
650	860	790	36	M33	24	895	820	39	M36	24	945	850	48	M45	24
700	910	840	36	M33	24	960	875	42	M39	24	995	900	48	M45	24
750	970	900	36	M33	24	1020	935	42	M39	24	1080	970	56	M52	24
800	1025	950	39	M36	24	1085	990	48	M45	24	1140	1030	56	M52	24
900	1125	1050	39	M36	28	1185	1090	48	M45	28	1250	1140	56	M52	28
1000	1255	1170	42	M39	28	1320	1210	56	M52	28	1360	1250	56	M52	28
1100	1355	1270	42	M39	32	1420	1310	56	M52	32	1460	1350	56	M52	32
1200	1485	1390	48	M45	32	1530	1420	56	M52	32	1575	1460	62	M56	32
1300	1585	1490	48	M45	32	1645	1530	62	M56	32	1685	1570	62	M56	32
1400	1685	1590	48	M45	36	1755	1640	62	M56	36	1795	1680	62	M56	36
1500	1820	1710	56	M52	36	1865	1750	62	M56	36	1925	1800	70	M64	36
1600	1930	1820	56	M52	40	1975	1860	62	M56	40	2025	1900	70	M64	40
1800	2130	2020	56	M52	44	2195	2070	70	M64	44					
2000	2345	2230	62	M56	48	2425	2300	70	M64	48					
2200	2555	2440	62	M56	52										
2400	2765	2650	62	M56	56										
2600	2965	2850	62	M56	60										

TABLE 3 — Dimensions for PN 64, PN 100 and PN 160

Dimensions in millimetres

[illegible]