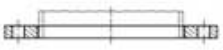


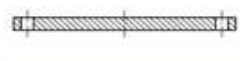
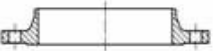

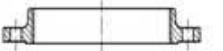
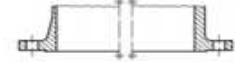


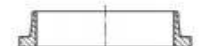
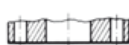

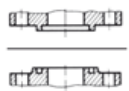
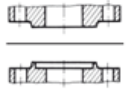
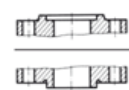




FLANGE TYPES ACCORDING DIN EN 1092-1 (previously DIN)

Type 01	DIN 2573/2576 + 28031	Type 02	DIN 2641/42 + 2655/56
	Flat Flange for welding		Lap joint flange for plain collar or butt weld end Type 32, Type 33
Type 04	DIN 2673	Type 05	DIN 2527
	Lap joint flange for short stub end Type 34		Blind flange
Type 11	DIN 2627 to 2635	Type 12	DIN 86029 + 86030
	Welding neck flange		Slip-on flanges with neck
Type 13	DIN 2558/2565-2567	Type 21	DIN 2527
	Threaded flange with neck		Integral flange
Type 32	DIN 2641/42 + 2655/56	Type 33	DIN 2641 + 2642
	Plain collar		Butt weld end
Type 34	DIN 2673		
	Short stub end		

SEALING SURFACES

According to DIN EN 1092-1 as machining procedure turning is requested. Turning includes every machining procedure where by concentric or spiral lines will be produced. The radius of the lathe tool should be 1 mm as minimum for forms A, B1, E, F (other without demands)

OUT-DATED DESIGNATION ACCORDING					NEW DESIGNATION ACC DIN EN 1092-1		
Flanges	Standard	Remark	Sealing Surf.	Sealing Surf.	Ra in μm	Rz in μm	
 with flat face	DIN 2573/6	without demands Rz = 160, turned*	Form A Form B	Form A	3,2 - 12,5	12,5 - 50	
 with raised face	DIN 2630 bis DIN 2635	Rz = 160, turned* Rz = 40, turned* Rz = 16, turned*	Form C Form D Form E	Form B 1 ** Form B 2 ***	3,2 - 12,5 0,8 - 3,2	12,5 - 50 3,2 - 12,5	
 with tongue with groove	DIN 2512		Form F Form N	Form C Form D	0,8 - 3,2 0,8 - 3,2	3,2 - 12,5 3,2 - 12,5	
 with male with female	DIN 2513		Form V 13 Form R 13	Form E Form F	3,2 - 12,5 3,2 - 12,6	12,5 - 50 12,5 - 51	
 with female with male	DIN 2514	for O-rings	Form R 14 Form V 14	Form G Form H	0,8 - 3,2 0,8 - 3,3	3,2 - 12,5 3,2 - 12,5	
 flanges	DIN 2696	for lens gaskets	Form L				
 flanges	DIN 2695	for membrane weld gaskets	Form M				

* not smoother than 40 μm

** usual for PN 2,5 - PN 40

*** B 2 usual for PN 63 a PN 100

DIN/EN, ANSI/ASME STANDARDS

Standard	Type of gasket	Pressure levels	For flange type:
ANSI/ASME B 16.5	Flat gasket Form SR	Class 150 to Class 1500	ANSI/ASME B16.5
	Flat gasket Form TG	Class 150 to Class 1500	ANSI/ASME B16.5
	Rubber-steel gasket	Class 150 to Class 300	ANSI/ASME B16.5
	Grooved gasket	Class 150 to Class 1500	ANSI/ASME B16.5 tongue/groove
	Grooved gasket	Class 150 to Class 1500	ANSI/ASME B16.5 male/female
ASME B 16.20	Spiral-wound gasket	Class 150 to Class 2500	ANSI/ASME B16.5
	Jacketed gasket	Class 150 to Class 2500	ANSI/ASME B16.5
	Spiral-wound gasket	Class 150 to Class 900	ANSI/ASME B16.47 Series A
	Jacketed gasket	Class 150 to Class 900	ANSI/ASME B16.47 Series A
	Spiral-wound gasket	Class 150 to Class 900	ANSI/ASME B16.47 Series B
ASME B 16.21	Jacketed gasket	Class 150 to Class 900	ANSI/ASME B16.47 Series B
	Flat gasket Form FF	Class 150 to Class 300	ANSI/ASME B16.5
	Flat gasket Form IBC	Class 150 to Class 900	ANSI/ASME B16.5
	Flat gasket Form IBC	Class 150 to Class 600	ANSI/ASME B16.47 Series A
ASME B 16.20 API Std 6 A EN 12560-5	Flat gasket Form IBC	Class 75 to Class 600	ANSI/ASME B16.47 Series B
	Ring Joint Gasket, Type R		ASME B16.5
	Ring Joint Gasket, Type RX		ASME B16.47 Series A
	Ring Joint Gasket, Type BX		API 6B API 6BX
DIN 2690	Flat gasket Form IBC	PN 1 to PN 40	DIN/EN
	Rubber-steel gasket	PN 6 to PN 40	DIN/EN
DIN 2691	Flat gasket Form TG	PN 10 to PN 160	DIN/EN
	Grooved gasket	PN 10 to PN 160	DIN/EN tongue/groove
DIN 2692	Flat gasket Form SR	PN 10 to PN 100	DIN/EN
	Grooved gasket	PN 10 to PN 100	DIN/EN male/female face
DIN 2695-2000	Membrane weld ring gasket	PN 63 to PN 400	DIN/EN
	Membrane weld ring gasket	Class 150 to Class 2500	ANSI/ASME B 16.5
DIN 2695-2002	Weld ring gasket		
	Profile A22 and A23	PN 10 to PN 400	DIN/EN
	Weld ring gasket Profile A22 and A23	Class 150 to Class 2500	ANSI/ASME B 16.5
DIN 2696 1999-08, Series 1	Lens gaskets	PN 63 to PN 400	DIN/EN
DIN 2696 1999-08, Series 2	Lens gaskets	PN 63 to PN 320	DIN/EN
DIN 28040	Flat gasket		DIN 28031, 28032, 28034, 28036,28038
DIN 7603	Flat gasket		
	Jacketed gasket		DIN 3850, DIN 908, DIN 7601
	Convex gasket		
DIN 82331, Series 1	Flat gasket Form FF		DIN 82330
DIN 82331, Series 2	Flat gasket Form FF		DIN 82330
DIN 86071	Flat gasket Form FF	PN 6 to PN 25	DIN/EN
DIN 86072	Flat gasket Form FF		DIN/EN



EN 12560-1	Flat gasket Form IBC Flat gasket Form SR Flat gasket Form TG	Class 150 to Class 900 Class 300 to Class 900 Class 300 to Class 900	ANSI/ASME B16.5 ANSI/ASME B16.5 ANSI/ASME B16.5
EN 12560-2	Spiral-wound gasket	Class 150 to Class 2500	ANSI/ASME B16.5
EN 12560-4	Corrugated gasket	Class 150 to Class 2500	ANSI/ASME B16.5
EN 12560-7	Jacketed gasket	Class 150 to Class 2500	ANSI/ASME B16.5
EN 1514-1	Flat gasket Form FF Flat gasket Form SR	PN 10 to PN 40 PN 10 to PN 40	DIN/EN DIN/EN
EN 1514-1	Flat gasket Form TG Flat gasket Form IBC	PN 10 to PN 40 PN 2,5 to PN 63	DIN/EN DIN/EN
EN 1514-2	Spiral-wound gasket	PN 10 to PN 160	DIN/EN DIN/EN
EN 1514-4	Corrugated gasket	PN 10 to PN 100	DIN/EN DIN/EN

GOST STANDARDS

Standard	Type of gasket	Pressure levels (MPa)	For flange type:
GOST 15180-86	Non metallic flexible flat Type A	From 0,1 to 4,0	GOST 12815-80*, Form 1
GOST 15180-86	Non metallic flexible flat Type A	From 0,1 to 16,0	GOST 12815-80, Form 2 and 3
GOST 15180-86	Non metallic flexible flat Type V	From 0,1 to 16,0	GOST 12815-80, Form 4 and 5
GOST 15180-86	Non metallic flexible flat Type G	From 0,1 to 16,0	GOST 12815-80, Form 8 and 9
GOST 15180-86	Non metallic flexible flat Type D	From 0,1 to 20,0	GOST 12815-80, Form 1 and 5
*GOST 12815-80: Flanges for valves, fittings, and pipe lines			
GOST 28759.6-90	Non metallic flat gaskets Type 1	From 0,3 to 1,6	GOST 28759.2** Form 2-5, 8-10, 12-15
		From 0,6 to 6,3	GOST 28759.3-90* Form 1-12
* GOST 28759.3-90: Steel butt welded flanges of vessels and apparatus			
GOST 28759.6-91	Non metallic flat gaskets Type 2	From 0,3 to 6,3	GOST 28759.2 Form 1, 6, 11
**GOST 28759.2: Steel flat welded flanges of vessels and apparatus			
GOST 52376-2005	Spiral-wound gasket Type A	From 0,1 to 16,0	GOST 12815-80 * Form 2-3
		From 0,1 to 20,0	GOST 12815-80 Form 4-5, 8-9
GOST 52376-2005	Spiral-wound gasket	From 0,1 to 16,0	GOST 12815-80, Form 2-3
GOST 52376-2005	Spiral-wound gasket	From 0,1 to 4,0	GOST 12815-80, Form 1
GOST 52376-2005	Spiral-wound gasket Type D	From 0,1 to 4,0	GOST 12815-80, Form 1
*GOST 12815-80: Flanges for valves, fittings, and pipe lines			
GOST 53561-2009	Ring Joint Gasket Oval Type	From 6,3 to 20,00	GOST 12815, Form 7
GOST 53561-2009	Ring Joint Gasket Octogonal Type	From 6,3 to 20,00	GOST 12815, Form 7
GOST 53561-2009	Ring Joint Gasket Lenticular Type	From 6,3 to 20,00	GOST 12815-80
GOST 28759.8-90	Metal gasket of Octangular Section	From 6,3 to 16,00	GOST 28759.4***
***GOST 28759.4: Still butt welded flanges of vessels and apparatus for gaskets of octangular sections.			