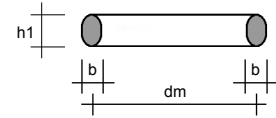


RING-JOINT DICHTUNGEN / RING-JOINT GASKETS

MATERIAL nach Kundenwunsch

EIGENSCHAFTEN für höchste Drücke
für extreme Temperaturen

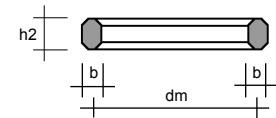
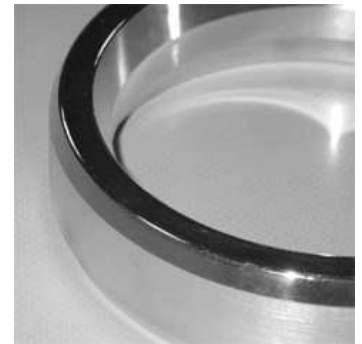
TYP TYP R-OVAL
ringförmige Dichtfläche
Flächenpressung erhöht sich unterproportional
bei Erhöhung der Schraubenkräfte



R-oval

TYP R-OKTOGONAL
ballige Dichtfläche
Flächenpressung erhöht sich proportional
bei Erhöhung der Schraubenkräfte

TYP RX (5.000 psi)
Dichtwert erhöht sich durch zusätzliche Nutzung des
Mediumdruckes
Flächenpressung erhöht sich proportional
bei Erhöhung der Schraubenkräfte



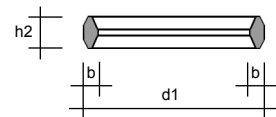
R-oktogonal

MATERIAL FEATURES *customer's specification
for highest pressure
for extreme temperature*

TYPE *TYPE R-OVAL
ring-sharped sealing face
surface pressure accumulates under proportionally due
to increasing the bolt forces*

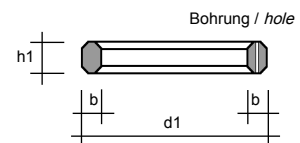
*TYPE R-OKTOGONAL
convex sealing face
surface pressure accumulates proportionally due
to increasing the bolt forces*

*TYPE RX (5.000 psi)
higher sealing value due to the additional using of the fluid
pressure
surface pressure accumulates proportionally due
to increasing the bolt forces*



RX

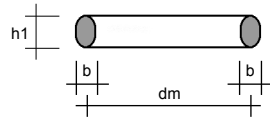
*TYPE BX (20.000 psi)
higher sealing value, the diameter of the gasket is slightly
bigger as the diameter of the groove
surface pressure accumulates proportionally due
to increasing the bolt forces
balance hole acc. API*



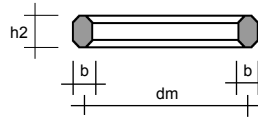
BX

RING-JOINT DICHTUNGEN / RING-JOINT GASKETS

ASME B 16.20, API 6 A, EN 12650-5, Typ R oval / oktogonal



R - oval

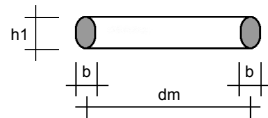


R - oktogonal

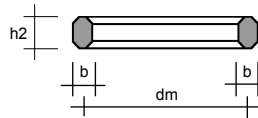
Typ R							oval	oktogonal
Werkstoff / material				AISI	HB	Art.-Nr.		
1.0335	Weicheisen			Soft Iron	90°	322-0335. ...	322-0335. ...	
1.4404	X2 CrNiMo 17-13-2			316 L	160°	322-4404. ...	322-4404. ...	
1.4541	X6 CrNiTi 18-10			321 SS	160°	322-4541. ...	322-4541. ...	
1.4571	X6 CrNiMoTi 17-12-2			316 Ti	160°	322-4571. ...	322-4571. ...	
Material nach Kundenwunsch / material custom-made						322-xxxx. ...	322-xxxx. ...	
NPS	Ring-Nr.	class	dm mm	b mm	h1 mm	h2 mm	Art.- End-Nr.	Art.- End-Nr.
1/2"	R11	300, 600	34,13	6,35	11,11	9,52	0011	1011
1/2"	R12	900, 1500	39,68	7,93	14,28	12,7	0012	1012
1/2"	R13	2500	42,86	7,93	14,28	12,7	0013	1013
3/4"	R13	300, 600	42,86	7,93	14,28	12,7	0013	1013
3/4"	R14	900, 1500	44,45	7,93	14,28	12,7	0014	1014
1"	R15	150	47,62	7,93	14,28	12,7	0015	1015
3/4"	R16	2500	50,8	7,93	14,28	12,7	0016	1016
1"	R16	300, 600, 900, 1500	50,8	7,93	14,28	12,7	0016	1016
1-1/4"	R17	150	57,15	7,93	14,28	12,7	0017	1017
1"	R18	2500	60,32	7,93	14,28	12,7	0018	1018
1-1/4"	R18	300, 600, 900, 1500	60,32	7,93	14,28	12,7	0018	1018
1-1/2"	R19	150	65,08	7,93	14,28	12,7	0019	1019
1-1/2"	R20+	300, 600, 900, 1500	68,25	7,93	14,28	12,7	0020	1020
1-1/4"	R21	2500	72,23	11,11	17,46	15,87	0021	1021
2"	R22	150	82,55	7,93	14,28	12,7	0022	1022
1-1/2"	R23+	2500	82,55	11,11	17,46	15,87	0023	1023
2"	R23+	300, 600	82,55	11,11	17,46	15,87	0023	1023
2"	R24+	900, 1500	95,25	11,11	17,46	15,87	0024	1024
2-1/2"	R25	150	101,6	7,93	14,28	12,7	0025	1025
2"	R26+	2500	101,6	11,11	17,46	15,87	0026	1026
2-1/2"	R26+	300, 600	101,6	11,11	17,46	15,87	0026	1026
2-1/2"	R27+	900, 1500	107,95	11,11	17,46	15,87	0027	1027
2-1/2"	R28	2500	111,12	12,7	19,05	17,46	0028	1028
3"	R29	150	114,3	7,93	14,28	12,7	0029	1029
3"	R30+	300, 600	117,47	11,11	17,46	15,87	0030	1030
3"	R31+	300, 600, 900	123,82	11,11	17,46	15,87	0031	1031
3"	R32	2500	127	12,7	19,05	17,46	0032	1032
3-1/2"	R33	150	131,76	7,93	14,28	12,7	0033	1033
3-1/2"	R34	300, 600, 900	131,76	11,11	17,46	15,87	0034	1034
3"	R35+	1500	136,52	11,11	17,46	15,87	0035	1035
4"	R36	150	149,22	7,93	14,28	12,7	0036	1036
4"	R37+	300, 600, 900	149,22	11,11	17,46	15,87	0037	1037
4"	R38	2500	157,6	15,87	22,22	20,64	0038	1038
4"	R39+	1500	161,92	11,11	17,46	15,87	0039	1039
5"	R40	150	171,45	7,93	14,28	12,7	0040	1040
5"	R41+	300, 600, 900	180,97	11,11	17,46	15,87	0041	1041
5"	R42	2500	190,5	19,05	25,4	23,81	0042	1042
6"	R43	150	193,67	7,93	14,28	12,7	0043	1043
5"	R44+	1500	193,67	11,11	17,46	15,87	0044	1044
6"	R45+	300, 600, 900	211,13	11,11	17,46	15,87	0045	1045
6"	R46+	1500	211,13	12,7	19,05	17,46	0046	1046
6"	R47+	2500	228,6	19,05	25,4	23,81	0047	1047
8"	R48	150	247,65	7,93	14,28	12,7	0048	1048
8"	R49+	300, 600, 900	269,87	11,11	17,46	15,87	0049	1049
8"	R50+	1500	269,87	15,87	22,22	20,64	0050	1050
8"	R51	2500	279,4	22,22	28,57	26,99	0051	1051
10"	R52	150	304,8	7,93	14,28	12,7	0052	1052
10"	R53+	300, 600, 900	323,85	11,11	17,46	15,87	0053	1053
10"	R54+	1500	323,85	15,87	22,22	20,64	0054	1054
10"	R55	2500	342,9	28,57	36,51	34,92	0055	1055
+ Übereinstimmung mit API 6A			Flansch / flange		ASME B 16.5, ASME 16.47 A			

RING-JOINT DICHTUNGEN / RING-JOINT GASKETS

ASME B 16.20, API 6 A, MSS SP-44, EN 12650-5, Typ R oval / oktogonal



R - oval

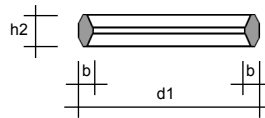
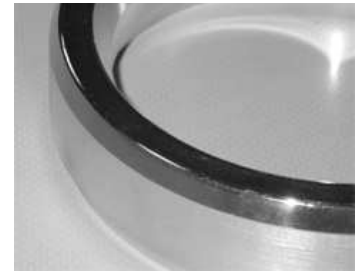


R - oktogonal

TYP R							oval	oktogonal
Werkstoff / material				AISI	HB	Art.-Nr.		
1.0335	Weicheisen			Soft Iron	90°	322-0665. ...	322-0335. ...	
1.4404	X2 CrNiMo 17-13-2			316 L	160°	322-4404. ...	322-4404. ...	
1.4541	X6 CrNiTi 18-10			321 SS	160°	322-4541. ...	322-4541. ...	
1.4571	X6 CrNiMoTi 17-12-2			316 Ti	160°	322-4571. ...	322-4571. ...	
Material nach Kundenwunsch / material custom-made						322-xxxx. ...	322-xxxx. ...	
NPS	Ring-Nr.	class	dm mm	b mm	h1 mm	h2 mm	Art.-End-Nr.	Art.-End-Nr.
12"	R56	150	381	7,93	14,28	12,7	0056	1056
12"	R57+++	300, 600, 900	381	11,11	17,46	15,87	0057	1057
12"	R58	1500	381	22,22	28,57	26,99	0058	1058
14"	R59	150	396,87	7,93	14,28	12,7	0059	1059
12"	R60	2500	406,4	31,75	39,68	38,1	0060	1060
14"	R61++	300, 600	419,1	11,11	17,46	15,87	0061	1061
14"	R62++	900	419,1	15,87	22,22	20,64	0062	1062
14"	R63+	1500	419,1	25,4	33,33	31,75	0063	1063
16"	R64	150	454,02	7,93	14,28	12,7	0064	1064
16"	R65+++	300, 600	469,9	11,11	17,46	15,87	0065	1065
16"	R66+++	900	469,9	15,87	22,22	20,64	0066	1066
16"	R67	1500	469,9	28,6	36,5	34,9	0067	1067
18"	R68	150	517,5	7,93	14,28	12,7	0068	1068
18"	R69+++	300, 600	533,4	11,11	17,46	15,87	0069	1069
18"	R70+++	900	533,4	19,05	25,4	23,81	0070	1070
18"	R71	1500	533,4	28,57	36,5	34,9	0071	1071
20"	R72	150	558,8	7,93	14,28	12,7	0072	1072
20"	R73+++	300, 600	584,2	12,7	19,05	17,46	0073	1073
20"	R74+++	900	584,2	19,05	25,4	23,81	0074	1074
20"	R75	1500	584,2	31,75	39,68	38,1	0075	1075
24"	R76	150	673,1	7,93	14,28	12,7	0076	1076
24"	R77++	300, 600	692,15	15,87	22,22	20,64	0077	1077
24"	R78++	900	692,15	25,4	33,33	31,75	0078	1078
24"	R79	1500	692,15	34,92	44,45	41,27	0079	1079
22"	R80	150	615,95	7,93	-	12,7	0080	1080
22"	R81++	300, 600	635	14,28	-	19,05	0081	1081
1"	R82+	10.000	57,15	11,11	-	15,87	0082	1082
-	R83+	-	-	-	-	-	0083	1083
1-1/2"	R84+	10.000	63,5	11,11	-	15,87	0084	1084
2"	R85+	10.000	79,37	12,7	-	17,46	0085	1085
2-1/2"	R86+	10.000	90,49	15,87	-	20,63	0086	1086
3"	R87+	10.000	100,01	15,87	-	20,63	0087	1087
4"	R88+	10.000	123,83	19,05	-	23,81	0088	1088
2-1/2"	R89+	10.000	114,3	19,05	-	23,81	0089	1089
5"	R90+	10.000	155,58	22,22	-	26,98	0090	1090
10"	R91+	10.000	260,35	31,75	-	38,1	0091	1091
-	R92	-	228,6	11,11	17,46	15,87	0092	1092
26"	R93++	300, 400, 600	749,3	19,05	-	23,81	0093	1093
28"	R94++	300, 400, 600	800,1	19,05	-	23,81	0094	1094
30"	R95++	300, 400, 600	857,25	19,05	-	23,81	0095	1095
32"	R96++	300, 400, 600	914,4	22,22	-	26,98	0096	1096
34"	R97++	300, 400, 600	965,2	22,22	-	26,98	0097	1097
36"	R98++	300, 400, 600	1022,35	22,22	-	26,98	0098	1098
8"	R99+	2000, 3000	234,95	11,11	-	15,87	0099	1099
25"	R100++	900	749,3	28,58	-	34,92	0100	1100
28"	R101++	900	800,1	31,75	-	38,1	0101	1101
30"	R102++	900	857,25	31,75	-	38,1	0102	1102
32"	R103++	900	914,4	31,75	-	38,1	0103	1103
34"	R104++	900	965,2	34,93	-	41,27	0104	1104
36"	R105++	900	1022,35	34,93	-	41,27	0105	1105
+ Übereinstimmung mit API 6A ++ Übereinstimmung mit MSS-SP-44 +++ Übereinstimmung mit API 6A und MSS-SP-44								
Flansch / flange				ASME B 16.5, ASME 16.47 A				

RING-JOINT DICHTUNGEN / RING-JOINT GASKETS

ASME B 16.20, API 6 A, TYP RX

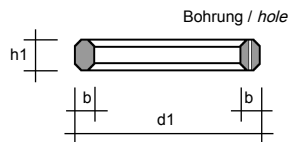
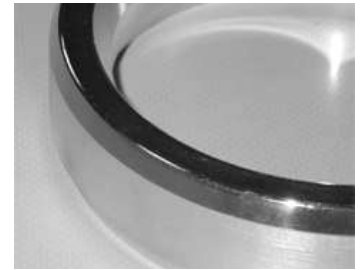


RX

Typ RX						
Werkstoff / material		AISI	HB	Art.-Nr.		
1.0335	Weicheisen	Soft-Iron	90°	322-0335. ...		
1.4404	X2 CrNiMo 17-13-2	316 L	160°	322-4404. ...		
1.4541	X6 CrNiTi 18-10	321 SS	160°	322-4541. ...		
1.4571	X6 CrNiMoTi 17-12-2	316 Ti	160°	322-4571. ...		
Material nach Kundenwunsch / material custom-made				322-xxxx. ...		
Zoll	Ring-Nr.	class	d1 mm	b mm	h1 mm	Art.-End-Nr.
1-1/2"	RX20	2000, 3000, 5000	76,2	8,73	19,05	3020
2"	RX20	5000	76,2	8,73	19,05	3020
2"	RX23	2000	93,27	11,91	25,4	3023
2"	RX24	3000, 5000	105,97	11,91	25,4	3024
3"	RX25	5000	109,54	8,73	19,05	3025
2-1/2"	RX26	2000	111,92	11,91	25,4	3026
2-1/2"	RX27	3000, 5000	118,27	11,91	25,4	3027
3"	RX31	2000, 3000	134,54	11,91	25,4	3031
3"	RX35	5000	147,24	11,91	25,4	3035
4"	RX37	2000, 3000	159,94	11,91	25,4	3037
4"	RX39	5000	172,64	11,91	25,4	3039
5"	RX41	2000, 3000	191,69	11,91	25,4	3041
5"	RX44	5000	204,39	11,91	25,4	3044
6"	RX45	2000, 3000	221,85	11,91	25,4	3045
6"	RX46	5000	222,25	13,49	28,58	3046
-	RX47	-	245,27	19,84	41,28	3047
8"	RX49	2000, 3000	280,59	11,91	25,4	3049
8"	RX50	5000	283,37	16,67	31,75	3050
10"	RX53	2000, 3000	334,57	11,91	25,4	3053
10"	RX54	5000	337,34	16,67	31,75	3054
12"	RX57	2000, 3000	391,72	11,91	25,4	3057
14"	RX63	5000	441,72	26,99	50,8	3063
16"	RX65	2000	480,62	11,91	25,4	3065
16"	RX66	3000	483,39	16,67	31,75	3066
18"	RX69	2000	544,12	11,91	25,4	3069
18"	RX70	3000	550,07	19,84	41,28	3070
20"	RX73	2000	596,11	13,49	31,75	3073
20"	RX74	3000	600,87	19,84	41,28	3074
-	RX82	-	67,87	11,91	25,4	3082
-	RX84	-	74,22	11,91	25,4	3084
-	RX85	-	90,09	13,49	25,4	3085
-	RX86	-	103,58	15,08	28,58	3086
-	RX87	-	113,11	15,08	28,58	3087
-	RX88	-	139,3	17,46	31,75	3088
-	RX89	-	129,78	18,26	31,75	3089
-	RX90	-	174,63	19,84	44,45	3090
-	RX91	-	286,94	30,16	45,24	3091
-	RX99	-	245,67	11,91	25,4	3099
1-1/4"	RX201	5000	51,46	5,74	11,3	3201
1-3/4"	RX205	5000	62,31	5,56	11,1	3205
2-1/2"	RX210	5000	97,63	9,53	19,05	3210
4"	RX215	5000	140,89	11,91	25,4	3215
4+4-1/4"	RX215	5000	140,89	11,91	25,4	3215
Flansch / flange			API 6 B			

RING-JOINT DICHTUNGEN / RING-JOINT GASKETS

ASME B 16.20, API 6 A, TYP BX



BX

Typ BX						
Werkstoff / material		AISI	HB	Art.-Nr.		
1.0335	Weicheisen	Soft-Iron	90°	322-0335. ...		
1.4404	X2 CrNiMo 17-13-2	316 L	160°	322-4404. ...		
1.4541	X6 CrNiTi 18-10	321 SS	160°	322-4541. ...		
1.4571	X6 CrNiMoTi 17-12-2	316 Ti	160°	322-4571. ...		
Material nach Kundenwunsch / material custom-made				322-xxxx. ...		
NPS	Ring-Nr.	class	d1 mm	b mm	h2 mm	Art.-End-Nr.
1-11/16"	BX150	10000, 15000	72,19	9,3	9,3	4150
1-13/16"	BX151	10000, 15000, 20000	76,4	9,63	9,63	4151
2-1/16"	BX152	10000, 15000, 20000	84,68	10,24	10,24	4152
2-9/16"	BX153	10000, 15000, 20000	100,94	11,38	11,38	4153
3-1/16"	BX154	10000, 15000, 20000	116,84	12,4	12,4	4154
4-1/16"	BX155	10000, 15000, 20000	147,96	14,22	14,22	4155
5-1/8"	BX169	10000	173,52	12,93	15,84	4169
7-1/16"	BX156	10000, 15000, 20000	237,92	18,62	18,62	4156
9"	BX157	10000	294,46	20,98	20,98	4157
11"	BX158	5000	352,04	23,14	23,14	4157
13-5/8"	BX159	10000	426,72	25,7	25,7	4159
13-5/8"	BX160	5000	402,59	13,74	23,83	4160
16-3/4"	BX161	5000	491,41	16,21	28,07	4161
16-3/4"	BX162	10000, 15000	475,49	14,22	14,22	4162
18-3/4"	BX163	5000	556,16	17,37	30,1	4163
18-3/4"	BX164	10000	570,56	24,59	30,1	1464
21-1/4"	BX165	5000	624,71	18,49	32,03	4165
21-1/4"	BX166	10000	640,03	26,14	32,03	4166
26-3/4"	BX167	2000	759,36	13,11	35,86	4167
26-3/4"	BX168	3000	765,25	16,05	35,86	4168
5-1/8"	BX169	10.000	173,52	12,93	15,84	4169
9"	BX170	10.000	218,03	14,22	14,22	4170
11"	BX171	10.000	267,44	14,22	14,22	4171
13-5/8"	BX172	10.000	333,07	14,22	14,22	4172
30"	BX303	2000, 3000	852,72	16,97	37,95	4303
Flansch / flange			API 6 BX			