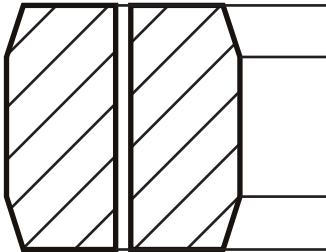


## ring joint gasket - RJ BX

## gasket spec



### description

the ring joint for the highest pressures up to 1500 bars. this ring joint is suitable only for special groove in the flange. this kind has the equalizing hole.

the ring joints are produced from one piece of metal. this kind of gasket is suitable for very high pressure applications and the very high temperature. the ring joints have to be used for special shape of flanges, so that together with the correct choice of material and profile shape, realized a very reliable seal. originally developed for use in the offshore or petrochemical industry where high pressure and temperature applications necessitated the need for a high integrity seals.

### principle of sealing

these gaskets seal by a line contact which provides an initial high seating stress at low bolt loads. the contact surfaces of the gasket and flange have to be carefully processed and free of any ridges and tool marks. the hardness of the gasket should be less than the hardness of the sealing surface of flange. the latest treatment have to be so as the surface of ring joint was at least by 5 HRC lower than sealing surface of flange.

### level of sealing surfaces

0,8 - 1,6  $\mu\text{m Ra}$

### materials

soft iron steel	hardness 90-110 HB, temperature range -60 up to 450°C
aluminium	hardness 20-45 HB, temperature range -250 up to 350°C
copper	hardness 35-70 HB, temperature range -270 up to 350°C
low carbon steel	hardness 90-120 HB, temperature range -10 up to 450°C
stainless steel	hardness 120-170 HB, temperature range -200 up to 550°C
temperature treatment is possible	

### pressure using

up to 1500 bars



ring joint numbers for individual nominal dimensions and presure classes  
according to API 6A, 6BX

numbers of ring joints for BX according to API 6A, 6BX						
DN	pressure class					
	2000	3000	5000	10000	15000	20000
1 11/16"				150	150	
1 13/16"				151	151	151
2 1/16"				152	152	152
2 9/16"				153	153	153
3 1/16"				154	154	154
4 1/16"				155	155	155
5 1/8"				169		
7 1/16"				156	156	156
9"				159	157	157
11"				158	158	158
13 5/8"			160	159	159	159
16 3/4"			162	162		
18 3/4"			163	164	164	
21 1/4"			165	166		
26 3/4"	167	168				
30"	303	303				
300	343	363				
350	395	421				
400	447	473				
450	497	523				
500	549	575				
600	649	675				
700	751	777				
800	856	882				
900	961	987				
1000	1062	1092				