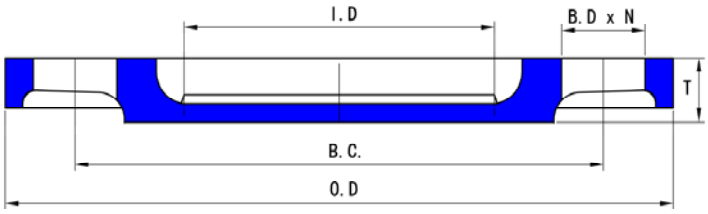
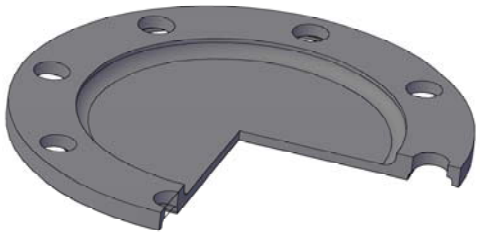
GenorD Ductile Iron Blind Flanges

For use on HDPE Flange Adapters





GenorD Ductile Iron Blind Flanges are specially used with HDPE flange adapters. Base on the unique structure design, the Ductile Iron Blind Flanges have the performance of less weight, high mechanical strength and long term anticorrosion.
Finish: Epoxy Coated or Galvanized

IPS Pipe Dia.	Product Code	Outside Dia.	Thick ness	Bolt No.	Bolt Hole Dia.	Bolt Hole Circle	Working Pressure Rating
Inch		O.D.	T	N	B.D.	B.C.	PSI
3/4"	DIBR-SDR7-0075D	3.88	0.51	4	0.5	2.75	267
1"	DIBR-SDR7-0100D	4.25	0.56	4	0.63	3.13	267
1 1/4"	DIBR-SDR7-0125D	4.63	0.63	4	0.63	3.50	267
1 1/2"	DIBR-SDR7-0150D	5.00	0.69	4	0.63	3.88	267
2"	DIBR-SDR7-02D	6.00	0.73	4	0.75	4.75	267
2"	DIBR-SDR11-02B	6.00	0.50	4	0.75	4.75	160
3"	DIBR-SDR7-03D	7.50	0.85	4	0.75	6.00	267
3"	DIBR-SDR11-03B	7.50	0.53	4	0.75	6.00	160
4"	DIBR-SDR7-04D	9.00	0.90	8	0.75	7.50	267
4"	DIBR-SDR11-04B	9.00	0.55	8	0.75	7.50	160
6"	DIBR-SDR7-06D	11.00	0.98	8	0.88	9.50	267
6"	DIBR-SDR11-06B	11.00	0.63	8	0.88	9.50	160
8"	DIBR-SDR7-08D	13.50	1.13	8	0.88	11.75	267
8"	DIBR-SDR11-08B	13.50	0.85	8	0.88	11.75	160
10"	DIBR-SDR7-10D	16.00	1.23	12	1.00	14.25	267
10"	DIBR-SDR11-10B	16.00	0.98	12	1.00	14.25	160
12"	DIBR-SDR7-12D	19.00	1.46	12	1.00	17.00	267
12"	DIBR-SDR11-12B	19.00	1.25	12	1.00	17.00	160
14“	DIBR-SDR11-14B	21.00	1.38	12	1.13	18.75	160
16"	DIBR-SDR11-16B	23.50	1.65	16	1.13	21.25	160
18"	DIBR-SDR11-18B	25.00	1.67	16	1.25	22.75	160
20"	DIBR-SDR11-20B	27.50	1.82	20	1.25	25.00	160
22"	DIBR-SDR11-22B	29.50	2.00	20	1.38	27.25	160
24"	DIBR-SDR11-24B	32.00	2.17	20	1.38	29.50	160

Working Pressure Rating is for free-floating backing rings on HDPE flange adapters and includes safety factor of two.

FLANGE INSTALLATIONS

ALIGNMENT

I. The sealing faces of the two stub-ends in a joint should be parallel to each other all around the circumference and in full contact (see lines A–A, B–B in Fig. 1).

II. The flange face C–C (see Fig. 2) should be in full contact all around the circumference with the upper face of the stub-end to avoid fulcrum effect which will lead to leaking and even breaking of the flange itself while torquing the bolts.

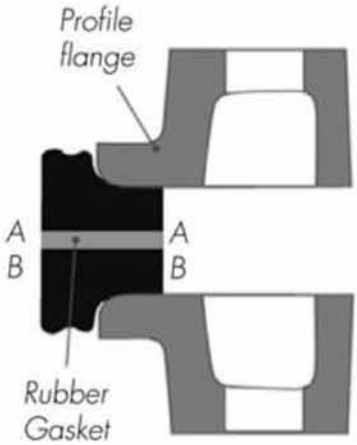


Figure 1: HDPE Stub-end

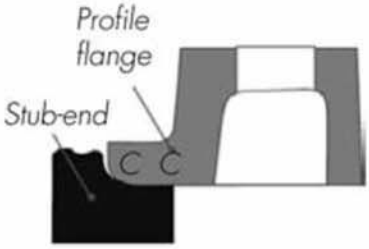


Figure 2

BOLT TIGHTENING

1. Install all the bolts and nuts finger-tight, ensuring at all times that the alignment conforms to figures 1, 2, and 3.
2. As the first torquing step, tighten the bolts in a crisscross sequence as shown in Fig. 4. Using a torque wrench with 20% of the final torque listed in the table on the other side of this sheet, taking care that points (I) and (II) are satisfied at all times.
3. In the four remaining steps, repeat step two four times, each time increasing the torque by 20% of the final value.
4. After reaching the final torque, use rotational tightening until all bolts are stable at the final torque value (in general two complete times around is required).

Always use the crisscross pattern!

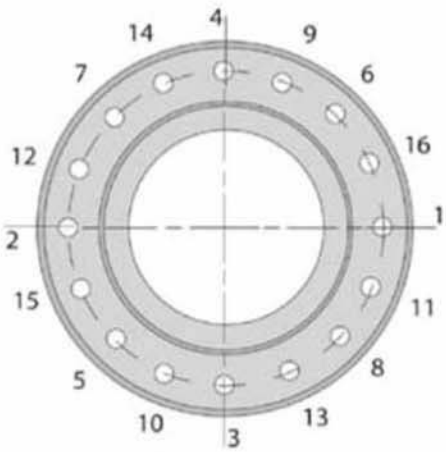


Figure 4: Tightening Sequence

CAUTION! DO NOT USE THIS PROCEDURE TO ALIGN AND/OR PULL THE JOINT TOGETHER.

TORQUE OF BOLT TIGHTENING FOR DI Backup Rings

IPS Pipe	Product	Outside	Inside	Flange	Bolt	Bolt Hole	Bolt Hole	Working	**Torque of**
Dia	Code	Dia.	Dia.	Thik.	No.	Dia.	Circle	Pressure	**Bolt Tightening**
Inch		O.D.	I.D.	T	N	B.D.	B.C.	PSI	**N.m.**
3/4"	DI-SDR7-0075C	99.00	29.00	13.00	4	16.00	70.00	267	**30-35**
1"	DI-SDR7-0100C	108.00	36.00	13.50	4	16.00	79.50	267	**30-35**
1 1/4"	DI-SDR7-0125C	117.60	44.00	16.00	4	16.00	88.90	267	**40-45**
1 1/2"	DI-SDR7-0150C	127.00	51.00	17.50	4	16.00	98.56	267	**45-50**
2"	DI-SDR11-02B	152.40	67.00	12.70	4	19.05	120.65	160	**30-35**
3"	DI-SDR11-03B	190.50	96.00	13.46	4	19.05	152.40	160	**30-35**
4"	DI-SDR11-04B	228.60	123.00	14.00	8	19.05	190.50	160	**30-35**
6"	DI-SDR11-06B	279.40	176.00	16.00	8	22.35	241.30	160	**40-45**
8"	DI-SDR11-08B	342.90	228.00	21.60	8	22.35	298.45	160	**50-60**
10"	DI-SDR11-10B	406.40	282.00	24.90	12	25.40	361.95	160	**60-70**
12"	DI-SDR11-12B	482.60	336.00	31.75	12	25.40	431.80	160	**80-90**
14“	DI-SDR11-14B	533.40	368.00	35.05	12	28.70	476.25	160	**120-130**
16"	DI-SDR11-16B	596.00	426.00	41.91	16	28.70	539.75	160	**120-130**
18"	DI-SDR11-18B	636.00	470.00	42.42	16	31.75	577.85	160	**150-160**
20"	DI-SDR11-20B	698.00	520.00	46.00	20	31.75	635.00	160	**150-160**
22"	DI-SDR11-22B	752.00	570.00	50.80	20	35.05	692.15	160	**180-200**
24"	DI-SDR11-24B	813.00	630.00	55.12	20	35.05	749.30	160	**200-220**