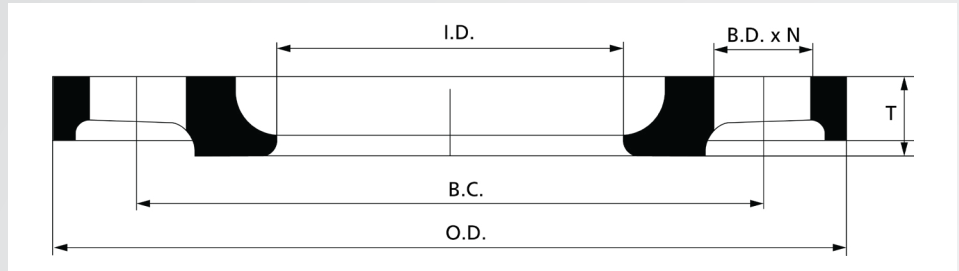


Ductile Iron Back-up Rings



- Material: ASTM A536, G65-45-12
- Description: Convuluted design with heat fused epoxy for use with HDPE flange adapters
- Meets Requirements: Class 150, Mates with ANSI B16.5 and AWWA C207



SDR 7 (STANDARD DIMENSION RATIO) 335 PSI (WORKING PRESSURE AS 73.4° F)

IPS Pipe Dia.	Product Code	Outside Dia. (inch)	Inside Dia. (inch)	Flange Thick. (inch)	Bolt Hole No.	Bolt Hole Dia. (inch)	Bolt Hole Circle (inch)	Unit Weight (lbs.)	FM Pressure Rating (psi.)
¾"	RO-BRINGS-DI-R7-00.75	3.88	1.12	0.50	4	0.63	2.75	1.10	-
1"	RO-BRINGS-DI-R7-01.00	4.25	1.39	0.56	4	0.63	3.13	1.60	-
1 ¼"	RO-BRINGS-DI-R7-01.25	4.63	1.73	0.63	4	0.63	3.50	1.90	-
1 ½"	RO-BRINGS-DI-R7-01.50	5.00	1.98	0.69	4	0.63	3.88	2.00	-
2"	RO-BRINGS-DI-R7-02.00	6.00	2.60	0.75	4	0.75	4.75	2.80	-
3"	RO-BRINGS-DI-R7-03.00	7.50	3.75	0.85	4	0.75	6.00	4.00	-
4"	RO-BRINGS-DI-R7-04.00	9.00	4.75	0.92	8	0.75	7.50	5.60	-
6"	RO-BRINGS-DI-R7-06.00	11.00	6.88	1.00	8	0.88	9.50	8.00	-
8"	RO-BRINGS-DI-R7-08.00	13.50	8.88	1.12	8	0.88	11.75	12.5	-
10"	RO-BRINGS-DI-R7-10.00	16.00	11.00	1.22	12	1.00	14.25	16.8	-
12"	RO-BRINGS-DI-R7-12.00	19.00	13.15	1.48	12	1.00	17.00	26.8	-

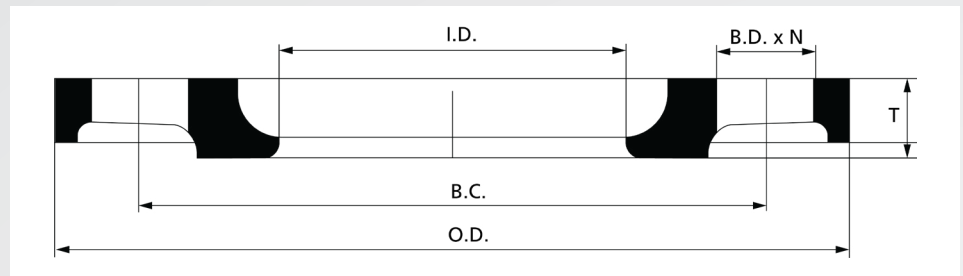
Notes:

1. All dimensions shown are nominal and subject to manufacturing tolerance OD and minimum wall are determined in accordance with ASTM and ANSI standards. Drawing shown is an approximation only.
2. Back-up Rings are marked to meet the applicable standards.
3. The maximum pressure for gas applications should be calculated based on the applicable local and federal regulations.
4. Only fittings with a FM pressure rating are FM approved.

Ductile Iron Back-up Rings



- Material: ASTM A536, G65-45-12
- Description: Convoluted design with heat fused epoxy for use with HDPE flange adapters
- Meets Requirements: Class 150, Mates with ANSI B16.5 and AWWA C207
- FM Approval Class 1613



SDR 11 (STANDARD DIMENSION RATIO) 200 PSI (WORKING PRESSURE AT 73.4° F)

IPS Pipe Dia.	Product Code	Outside Dia. (inch)	Inside Dia. (inch)	Flange Thick. (inch)	Bolt Hole No.	Bolt Hole Dia. (inch)	Bolt Hole Circle (inch)	Unit Weight (lbs.)	FM Pressure Rating (psi.)
2"	RO-BRINGS-DI-R11-02.00	6.00	2.60	0.52	4	0.75	4.75	2.80	200
3"	RO-BRINGS-DI-R11-03.00	7.50	3.75	0.55	4	0.75	6.00	4.00	200
4"	RO-BRINGS-DI-R11-04.00	9.00	4.75	0.60	8	0.75	7.50	5.60	200
6"	RO-BRINGS-DI-R11-06.00	11.00	6.88	0.67	8	0.88	9.50	8.00	200
8"	RO-BRINGS-DI-R11-08.00	13.50	8.88	0.90	8	0.88	11.75	12.5	200
10"	RO-BRINGS-DI-R11-10.00	16.00	11.00	1.05	12	1.00	14.25	16.8	200
12"	RO-BRINGS-DI-R11-12.00	19.00	13.15	1.35	12	1.00	17.00	26.8	200
14"	RO-BRINGS-DI-R11-14.00	21.00	14.40	1.45	12	1.13	18.75	36.0	-
16"	RO-BRINGS-DI-R11-16.00	23.50	16.40	1.72	16	1.13	21.25	44.0	-
18"	RO-BRINGS-DI-R11-18.00	25.00	18.40	1.75	16	1.25	22.75	49.5	-
20"	RO-BRINGS-DI-R11-20.00	27.50	20.50	1.90	20	1.25	25.00	61.0	-
22"	RO-BRINGS-DI-R11-22.00	29.50	22.50	2.00	20	1.38	27.25	73.0	-
24"	RO-BRINGS-DI-R11-24.00	32.00	24.50	2.23	20	1.38	29.50	89.0	-
28"	RO-BRINGS-DI-R11-28.00	36.50	28.60	2.48	28	1.38	34.00	124.0	-
30"	RO-BRINGS-DI-R11-30.00	38.75	30.60	2.68	28	1.38	36.00	148.0	-
32"	RO-BRINGS-DI-R11-32.00	41.75	32.60	2.74	28	1.63	38.50	178.0	-
36"	RO-BRINGS-DI-R11-36.00	46.00	36.60	3.15	32	1.63	42.75	238.0	-
42"	RO-BRINGS-DI-R11-42.00	53.00	42.60	3.55	36	1.63	49.50	345.0	-
48"	RO-BRINGS-DI-R11-48.00	59.50	48.60	3.95	44	1.63	56.00	458.0	-

Notes:

1. All dimensions shown are nominal and subject to manufacturing tolerance OD and minimum wall are determined in accordance with ASTM standards. Drawing shown is an approximation only.
2. Back-up Rings are marked to meet the applicable standards.
3. Only fittings with a FM pressure rating are FM approved.
4. The maximum pressure for gas applications should be calculated based on the applicable local and federal regulations.