



POWERLOK

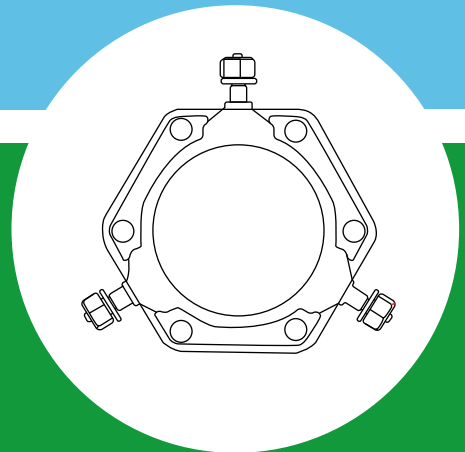
RESTRAINT FOR DUCTILE IRON PIPES



Restraint for DI



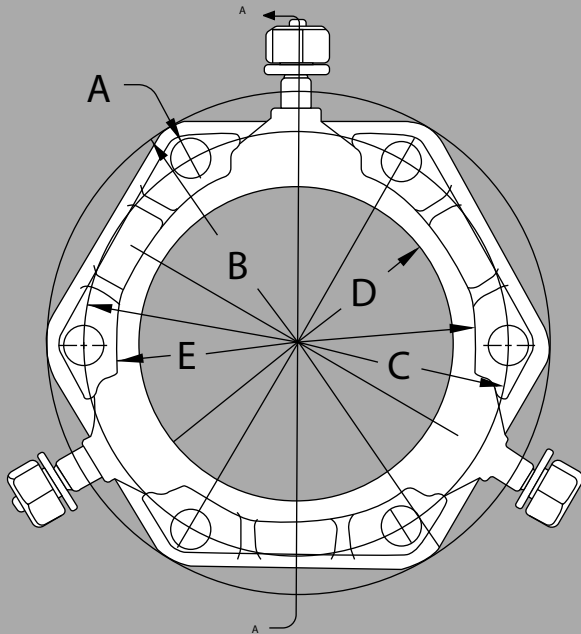
- 3 - 24" sizes available
- Minimum safety factor of 2:1 on rated pressure
- D.I. conforming to ASTM A536 Grade 65-45-12



1-800-800-0932



COMPONENT REFERENCE



FEATURES & BENEFITS

- Powerlok for Ductile Iron Pipe is the newest improvement in Mechanical Joint restraints. Powerlok is furnished in 3" - 24" sizes with a minimum safety factor of 2:1 on its rated pressure.
- Powerlok for Ductile Iron pipe conforming to ANSI/AWWA C151/A21.51 is U.L. listed for 350 PSI and FM approved for 175 PSI in 3" - 12" sizes. It is for use with all Mechanical Joint fittings valves, and hydrants using ANSI/AWWA C111/A21.11 Mechanical Joints.
- Powerlok for Ductile Iron Pipe is manufactured of Ductile Iron conforming to ASTM A536 Grade 65-45-12. The gripping elements are quenched and tempered to a hardness of 45 Rockwell C and insert themselves into the surface of Ductile Iron Pipe, creating a thrust restraining groove.

SIZE SPECIFICATIONS

SIZE	A(BOLTS)	B	C	D	E	MAX. PRESSURE RATING 2:1 S.F
3	(2) 5/8 X 3	7.69	6.19	4.09	4.84	350 PSI
4	(2) 3/4 X 4	9.10	7.50	4.93	5.92	350 PSI
6	(3) 3/4 X 4	11.10	9.50	7.03	8.02	350 PSI
8	(4) 3/4 X 4	12.85	11.75	9.18	10.17	350 PSI
10	(6) 3/4 X 4	15.72	14.00	11.23	12.22	350 PSI
12	(8) 3/4 X 4	17.97	16.25	13.33	14.32	350 PSI
14	(10) 3/4 X 4 1/2	20.75	18.75	15.46	16.40	350 PSI
16	(12) 3/4 X 4 1/2	23.00	21.00	17.56	18.50	350 PSI
18	(12) 3/4 X 4 1/2	25.25	23.25	19.66	20.60	250 PSI
20	(14) 3/4 X 4 1/2	27.50	25.50	21.76	22.70	250 PSI
24	(16) 3/4 X 4 1/2	32.00	30.00	25.96	26.90	225 PSI

MATERIAL SPECIFICATIONS

Suggested Specification: Restraining Glands shall be compatible with Mechanical Joints conforming to ANSI/AWWA C111/A21.11, C110/A21.10 and C153/A21.53. The Gland, Screw, and Gripping Element shall be manufactured of Ductile Iron conforming to ASTM A536 Grade 65-45-12. The gripping element shall have a hardness of 45 Rockwell C and Shall be actuated with a torque limiting screw. All restraints shall have minimum safety factor of 2:1 applied to its pressure rating.



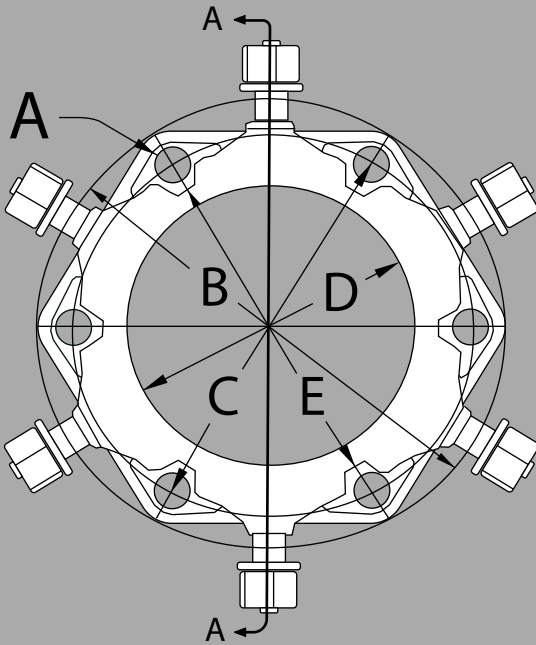
Restraint for DI

1-800-800-0932

www.powerseal.com 940-767-5566 fax: 940-723-8378
701 Pleasant View Drive Wichita Falls, TX 76306



COMPONENT REFERENCE



MATERIAL SPECIFICATIONS (cont)

Restraint shall be suitable for use on C900, IPS and HDPE pipe with a stiffener. Restraints shall be FM approved and UL listed for use on PVC pipe in 3-12" sizes. The restraint mechanism shall incorporate a toggle action to insert the gripping elements into the pipe, creating a buttress of pipe material trapped in a groove on the gripping element.

All restraints shall have a safety factor of 2:1 applied to its pressure rating.

FEATURES & BENEFITS

- PowerLok for PVC is the newest improvement in mechanical joint restraints for plastic pipe. PowerLok is furnished in 3"-24" sizes with a minimum safety factor of 2:1 on its rated pressure.
- PowerLok for use on PVC pipe conforming to AWWA C900 is U.L. Listed for 235 psi pressure rating and FM Approved for 150 psi in 4" through 12" sizes. In 3"-12" sizes, it may also be used on PVC having IPS diameters and HDPE pipe (with a stiffener). It is for use with all mechanical joint fittings, valves, and hydrants using ANSI/AWWA C111/A21.11 Mechanical Joints. PowerLok contains no washers and is ready to be used on C900 and IPS pipe in the as- received condition. (Use on IPS pipe requires the use of a transition gasket or an PowerLok gasket.)
- PowerLok for PVC is manufactured of Ductile Iron Conforming to ASTM A536 grade 65-45-12. Wedges for plastic pipe conform exactly to the pipe surface and utilize a buttress pocket design, creating a groove with a buttress trapped in the pocket, increasing the resistance to movement.

SIZE SPECIFICATIONS

SIZE	A(BOLTS)	B	C	D	E	MAX. PRESSURE RATING 2:1 S.F
3	(4) 5/8 X 3	7.69	6.19	4.09	4.84	305 PSI
4	(4) 3/4 X 4	9.10	7.50	4.93	5.92	305 PSI
6	(6) 3/4 X 4	11.10	9.50	7.03	8.02	305 PSI
8	(6) 3/4 X 4	12.85	11.75	9.18	10.17	305 PSI
10	(8) 3/4 X 4	15.72	14.00	11.23	12.22	305 PSI
12	(8) 3/4 X 4	17.97	16.25	13.33	14.32	305 PSI
14	(10) 3/4 X 4 1/2	20.75	18.75	15.46	16.40	235 PSI
16	(12) 3/4 X 4 1/2	23.00	21.00	17.56	18.50	235 PSI
18	(12) 3/4 X 4 1/2	25.25	23.25	19.66	20.60	235 PSI
20	(14) 3/4 X 4 1/2	27.50	25.50	21.76	22.70	235 PSI
24	(16) 3/4 X 4 1/2	32.00	30.00	25.96	26.90	235 PSI

MATERIAL SPECIFICATIONS

Suggested Specification: Restraining Glands shall be compatible with Mechanical Joints conforming to ANSI/AWWA C111/ A21.11, C110/A21.10 and C153/A21.53. The gripping mechanism shall be actuated by a torque limiting screw having a 1-1/4" hex nut. Breakaway torque and length of screw shall be such that the restrainer can be used on C900/ C905 and 3-12" IPS outside diameters in the as- received condition. Gland, wedge and screw shall be manufactured of Ductile Iron conforming to ASTM A536 Grade 65-45-12.

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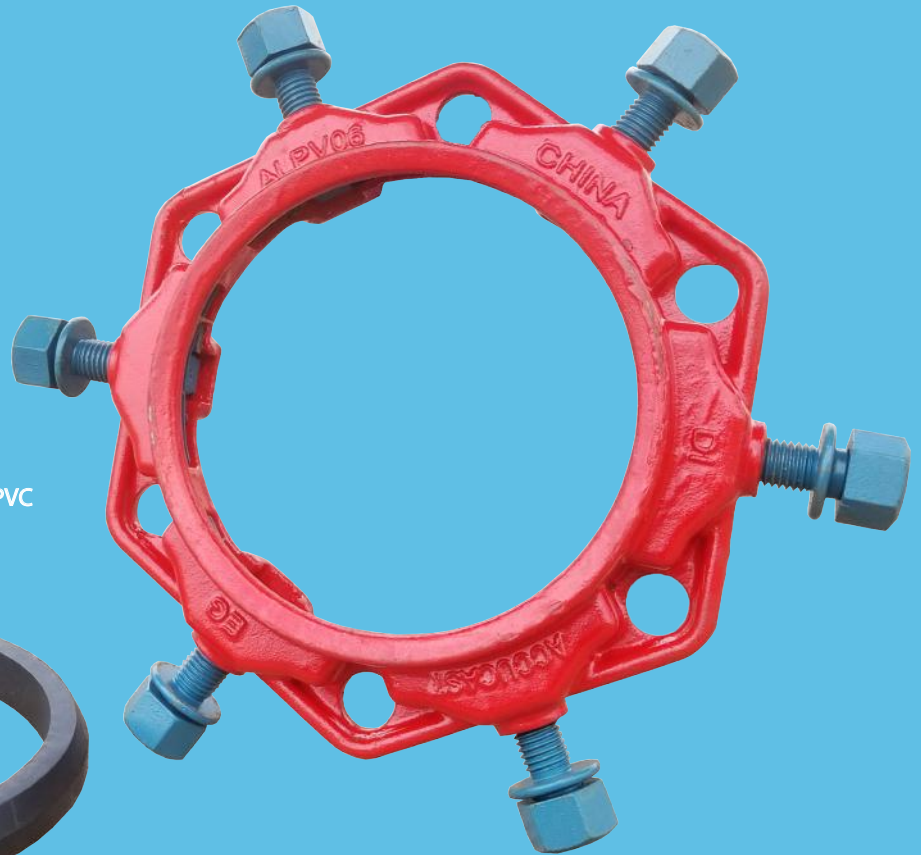
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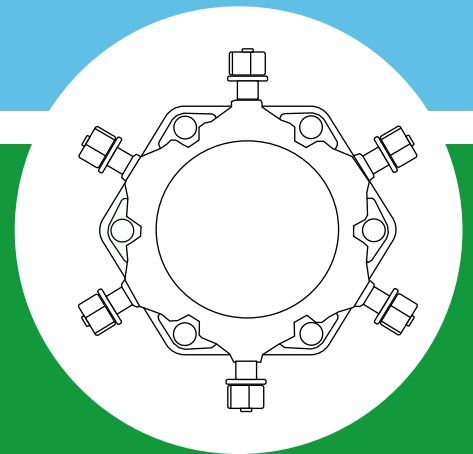
RESTRAINT FOR PVC PIPES



Restraint for PVC



- 3 - 24" sizes available
- Minimum safety factor of 2:1 on rated pressure
- Confirming to ASTM A536 Grade 65-45-12
- No washer to remove. Fits C900, C905 and IPS is size 3-12" without change of gasket



1-800-800-0932