



KWIK SEAL

PLACED-IN PIPE-TO-MANHOLE CONNECTOR

What It Is

KWIK SEAL is a simple all-rubber compression-type seal that makes a flexible, watertight connection between pipes and concrete structures. It can be used with either cast or cored openings, and uses the precise fit between the pipe and the opening for compression sealing of the pipe to the structure.

How It Works

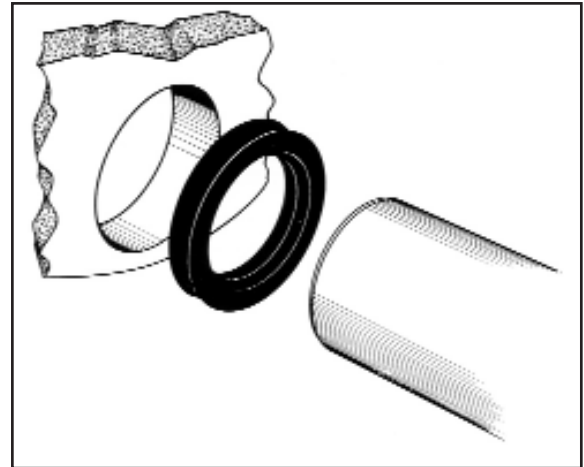
KWIK SEAL uses simple principles:

- Specially developed synthetic rubber is continuously tested and lab-certified
- The connector is specified based on the difference between pipe OD and hole ID
- The gasket is placed into the structure opening
- The pipe is beveled and the pipe and connector are lubricated
- The pipe is inserted through the connector, compressing it between the concrete and the pipe
- Installation is complete

How It Performs

KWIK SEAL meets or exceeds all requirements of the following Specifications and/or Test Methods:

ASTM C 923
ASTM C 1244
ASTM C 1478



Why It's Better

- Requires no installation tools, in the plant or in the ditch
- Requires no special tooling for forming holes
- Works with common hole sizes
- All-rubber construction for long life
- Easily replaced if damaged
- Cost-effective, reliable sealing
- Use in manholes, wet wells, pump and lift stations, stormwater structures, on-site treatment structures, grease interceptors, or any application requiring a flexible watertight connector

Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2010.





Submittal Specification

A watertight flexible pipe-to-manhole connector shall be employed in the connection of the sanitary sewer and/or stormwater pipe to precast manholes or other structures.

The connector shall be KWIK SEAL as manufactured by Press-Seal Gasket Corporation, Fort Wayne, Indiana, or approved equal.

The connector shall be the sole element relied on to assure a flexible watertight seal of the pipe to the structure. The connector shall consist of a single rubber gasket, shall be constructed solely of synthetic or natural rubber, shall meet/exceed the requirements of ASTM C 923, and shall have a minimum tensile strength of 1600 psi.

Selection of the proper size connector for the manhole and pipe requirement, and installation thereof, shall be in strict conformance with the recommendations of the connector manufacturer. Any dead end pipe stubs installed in connectors shall be restrained from movement per ASTM C 923.

The finished connection shall provide sealing to 13 psi (minimum), and shall accommodate deflection of pipe to 7 degrees (minimum) without loss of seal.

Vacuum testing shall be conducted in strict conformance with ASTM C 1244 prior to backfill. Other testing shall be conducted in strict conformance with the requirements of the connector manufacturer..

PRODUCT PERFORMANCE

KWIK SEAL meets and/or exceeds all requirements of ASTM C 923, including physical properties of materials and performance testing. Performance testing includes:

- 13 psi minimum in straight alignment
- 10 psi at minimum 7° angle
- 10 psi minimum under shear load of 150 lbs/in. pipe diameter

KWIK SEAL meets and/or exceeds the requirements of the following specifications:

- ASTM C 923 *Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals*
- ASTM C 1478 *Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes and Laterals*
- ASTM C 1244 *Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test*

TYPICAL TEST RESULTS for KWIK SEAL (as in ASTM C 923 and C 1478)

Test	ASTM Test Method	Test Requirements	Typical Result
CHEMICAL RESISTANCE; 1N SULFURIC ACID and 1N HYDROCHLORIC ACID	D 534, AT 22°C FOR 48 HRS	NO WEIGHT LOSS NO WEIGHT LOSS	NO WEIGHT LOSS NO WEIGHT LOSS
TENSILE STRENGTH	D 412	1200 PSI, MIN.	2100 PSI
ELONGATION AT BREAK	D 412	350%, MIN.	525%
HARDNESS	D 2240 (SHORE A DUROMETER)	±5 FROM THE MANUFACTURER'S SPECIFIED HARDNESS	<2
ACCELERATED OVEN-AGING	D 573, 70± 1°C FOR 7 DAYS	DECREASE OF 15%, MAX. OF ORIGINAL TENSILE STRENGTH, DECREASE OF 20%, MAX. OF ELONGATION	-13% TENSILE CHANGE, -14% ELONGATION CHANGE
COMPRESSION TEST	D 395, METHOD B, AT 70°C FOR 22 HRS	DECREASE OF 25%, MAX. OF ORIGINAL DEFLECTION	13%
WATER ABSORPTION	D 471 IMMERSE 0.75 BY 2-IN. SPECIMEN IN DISTILLED WATER AT 70°C FOR 48 hrs	INCREASE OF 10%, MAX. OR ORIGINAL BY WEIGHT	3.50%
OZONE RESISTANCE	D 1171	RATING 0	PASS
LOW-TEMP, BRITTLE POINT	D 746	NO FRACTURE AT -40°C	PASS
TEAR RESISTANCE	D 624, METHOD B	200 LBF/IN. (MIN.)	450 LBF/IN.

Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2010.





KWIK SEAL

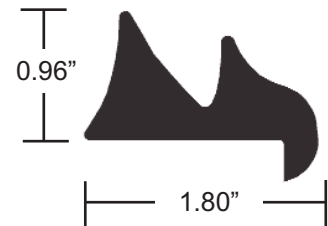
SELECTION GUIDE

PIPE OD 4.21" - 15.30"

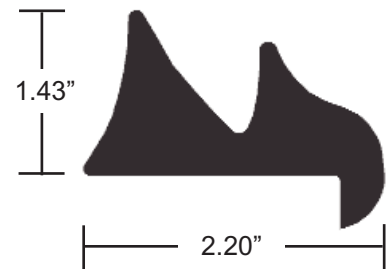
PIPE DESCRIPTION	PIPE O.D. (In.)	HOLE SIZE (In.)	KWIK SEAL PROFILE TYPE
4" PVC ASTM D 3034	4.21	4.96	375
		5.375	500
4" DI/CI AWWA C 151	4.80	5.55	375
		6.0	500
6" PVC ASTM D 3034	6.275	7.025	375
		7.375	500
6" DI/CI AWWA C 151	6.90	7.65	375
		8.0	500
8" PVC ASTM D 3034	8.40	9.15	375
		9.5	500
		10.0	750
8" DI/CI AWWA C 151	9.05	9.8	375
		10.0	500
		10.5	750
10" PVC ASTM D 3034	10.50	11.25	375
		11.5	500
		12.0	750
10" DI/CI AWWA C 151	11.10	11.85	375
		12.0	500
		12.5	750
12" PVC ASTM D 3034	12.50	13.25	375
		13.5	500
		14.0	750
12" DI/CI AWWA C 151	13.20	13.95	375
		14.25	500
		14.75	750
15" PVC ASTM D 3034	15.30	16.05	375
		16.25	500
14" DI/CI AWWA C 151		16.75	750



KWIK SEAL 375
for .375 Annular Space



KWIK SEAL 500
for .50 Annular Space



KWIK SEAL 750
for .75 Annular Space

DI/CI Cast Iron and Ductile pipes produced to AWWA C 151 specification standards

PVC D 3034 PVC pipes produced to ASTM D 3034 specification standards up through 15" ID size

Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2010.

OTHER PIPE SIZES and TYPES

The listing contains the sizes and types of pipe that can be used with KWIK SEAL Connectors. Other pipe sizes and types can be connected with PSX:Direct Drive and/or PSX:Positive Seal. For information on pipes not listed, please contact our Customer Service Department.

