

# KWIK SEAL

## PIPE TO MANHOLE & TANK CONNECTOR

### What It Is

The Kwik Seal is a simple all-rubber compression-type seal that makes a flexible watertight connection between pipes and concrete structures.

It offers an easy installation process in precast production facilities or in the field for contractors.

Whether you core or cast your holes, Kwik Seal fits right into your production methods, ready to seal your toughest applications every time.

### How It Works

- The connector fits into a cast or cored hole
- The pipe is beveled at the job site
- Lubricant is applied to the connector and the pipe barrel
- Pipe is inserted into connector by contractor

### Why It's Better

- No special torque tools or take-up clamps required.
- Easily replaced if damaged.
- Works with a large variety of common hole sizes.
- Can be used in cast or cored holes.
- Contractor can save time and money by backfilling immediately.



### Where To Use

- Manholes
- Wet wells
- Square pump and lift stations
- Stormwater structures
- On-site treatment structures
- Junction chambers
- Grease interceptors



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## SUBMITTAL SPECIFICATIONS

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 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

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# KWIK SEAL

## PVC & DUCTILE IRON GUIDE

Pipe OD 4.21" - 24.80"

PVC & DUCTILE IRON PIPE				
PIPE DESCRIPTION	PIPE O.D. Inch (mm)	HOLE SIZE INCH	KWIK SEAL PROFILE	SMALLEST DIAMETER STRUCTURE Inch (mm)
4" PVC	4.21"	5.0" - 126 mm	375	24" ID (600 mm)
100 mm	107 mm	5.375" - 137mm	500	with 3.0" (76 mm) wall
4" IPS	4.5"	5.25" - 133 mm	375	24" ID (600 mm)
100 mm	114 mm	5.5" - 140 mm	500	with 3.0" (76 mm) wall
6" PVC	6.275"	7.0" - 178 mm	375	24" ID (600 mm)
150 mm	171 mm	7.375" - 187 mm	500	with 3.0" (76 mm) wall
6" IPS	6.6"	7.6" - 193 mm	500	24" ID (600 mm)
150 mm	168 mm			with 3.0" (76 mm) wall
6" DI/CI	6.90"	7.65" - 194 mm	375	24" ID (600 mm)
150 mm	175 mm	8.0" - 203 mm	500	with 3.0" (76 mm) wall
8" PVC	8.40"	10.0" - 254 mm	750	24" ID (600 mm)
200 mm	213 mm			with 3.0" (76 mm) wall
8" IPS	8.6"	10" - 254 mm	750	24" ID (600 mm)
254 mm	219 mm			with 3.0" (76 mm) wall
8" DI/CI	9.05"	10.0" - 254 mm	500	24" ID (600 mm)
200 mm	230 mm	10.50" - 267 mm	750	with 3.0" (76 mm) wall
10" PVC	10.50"	12.0" - 305 mm	750	24" ID (600 mm)
250 mm	267 mm			with 3.0" (76 mm) wall
10" IPS	10.75"	12.25" - 311 mm	750	24" ID (600 mm)
254 mm	273 mm			with 3.0" (76 mm) wall
10" DI/CI	11.10"	12.0" - 305 mm	500	24" ID (600 mm)
250 mm	282 mm	12.50" - 318 mm	750	with 3.0" (76 mm) wall
12" PVC	12.50"	14.0" - 356 mm	750	24" ID (600 mm)
300 mm	318 mm			with 3.0" (76 mm) wall
12" IPS	12.75"	14.25" - 362 mm	750	24" ID (600 mm)
305 mm	324 mm			with 3.0" (76 mm) wall
12" DI/CI	13.20"	14.75" - 375 mm	750	24" ID (600 mm)
300 mm	335 mm			with 3.0" (76 mm) wall
15" 375 mm PVC	15.30"	16.75" - 425 mm	750	24" ID (600 mm)
14" 350 mm DI/CI	389 mm			with 3.0" (76 mm) wall
16" DI/CI	17.5"	21.5" - 546 mm	750	24" ID (600 mm)
400 mm	442 mm			with 3.0" (76 mm) wall
* 18"	18.70"	20.70" - 526 mm	800	30" ID (750 mm)
450 mm PVC	475 mm			with 3.5" (89 mm) wall
18" DI/CI	19.5"	21.5" - 546 mm	800	30" ID (750 mm)
450 mm	495 mm			with 3.5" (89 mm) wall
20" DI/CI	21.6"	23.5" - 597 mm	800	30" ID (750 mm)
500 mm	549 mm			with 3.5" (89 mm) wall
* 21"	22.04"	24.00" - 610 mm	800	36" (900 mm)
533 mm PVC	560 mm			with 4.0" (102 mm) wall
* 24"	24.80"	26.80" - 681 mm	800	42" ID (1050 mm)
600 mm PVC	630 mm			with 4.5" (114 mm) wall
24" DI/CI	25.75"	27.75" - 699 mm	800	42" ID (1050 mm)
600 mm	655 mm			with 4.5" (114 mm) wall

\*Due to varying hole size circumferences caused by different manhole radiuses and straight wall structures, the structure size and type are required when ordering Kwik Seal for 12" thru 24" reinforced concrete pipe, and 18" thru 24" PVC pipes.

### 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.

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# KWIK SEAL

## RCP & CORRUGATED PIPE

Pipe OD 4.00" - 31.50"

Harco PVC Pipe Manhole Adapter		
PIPE DESCRIPTION	PIPE O.D.	HARCO PART NUMBER
4" 101.6 mm	4.21" 107 mm	53-3304xx
6" 152.4 mm	6.28" 168 mm	53-3306xx
8" 203.2 mm	8.40" 207 mm	53-3308xx
10" 254 mm	10.50" 259 mm	53-3310xx
12" 300 mm	12.5" 317.5mm	53-3312xx
15" 375 mm	15.3" 388.6mm	53-3315xx
18" 450mm	18.7" 475.0mm	53-3318xx
24" 600 mm	24.8" 629.9mm	53-3324xx
30" 762 mm	32" 813 mm	53-3330xx

All adaptor corrugated HDPE openings connect to full profile corrugation pipe, pipe gasket provided in most cases.

**NOTE:** Nyloplast pipe OD's match standard SDR-35 PVC Pipes

HARCO fittings are available for all HDPE manufacturer's. Please contact for availability and pricing.

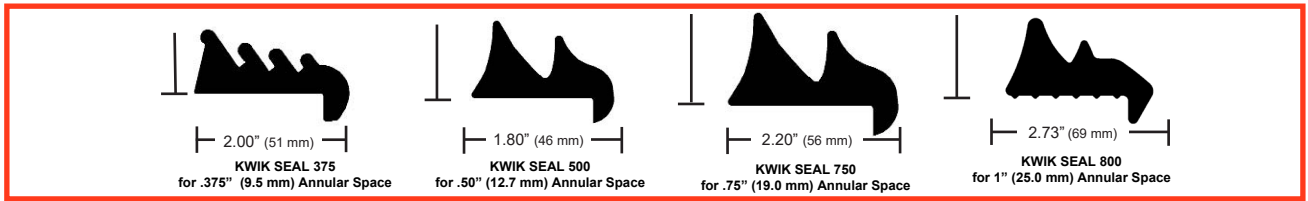
**ORDERING DISCLAIMER:** Adapters and fittings are supplied by pipe manufacturers to provide a smooth and level surface on the outside diameter of the pipe so that boot-style connectors can be used. These adapters and/or fittings may differ from the sizes and types listed above. It is the sole responsibility of the customer to verify the correct OD of the fitting and/or adapter which will be used.

Reinforced Concrete Pipe				
PIPE DESCRIPTION	PIPE O.D.	HOLE SIZE INCH	KWIK SEAL PROFILE	SMALLEST DIAMETER STRUCTURE INCH (mm)
* 12" 300 mm	16.0" 406 mm	18.0" 457 mm	800	24" (600 mm) with 3.0" (76 mm) wall
* 15" 375 mm	19.5" 495 mm	21.5" 521 mm	800	30" (750 mm) with 3.5" (89 mm) wall
* 18" 450 mm	23.0" 584 mm	25.0" 635 mm	800	36" (900 mm) with 4.0" (102 mm) wall
* 24" 600 mm	30.0" 762 mm	32.0" 813 mm	850	48" (1200 mm) with 5.0" (127 mm) wall
* 24" 600 mm	31.5" 800 mm	33.5" 850 mm	850	48" (1200 mm) with 5.0" (127 mm) wall

ADS Nyloplast PVC Pipe Manhole Adapter		
Drawing numbers for reference: STD-205D		
PIPE DESCRIPTION	PIPE O.D.	Nyloplast PVC Product Code
12" 300 mm	12.5" 317.5 mm	1257AGHPU2
15" 375mm	15.3" 388.6 mm	1557AGHPU2
18" 450mm	18.7" 475 mm	1857AGHPU2
21" 525mm	22.1" 561.3 mm	2157AGHPU2
24" 600mm	24.8" 629.9 mm	2457AGHPU2

Nyloplast Pipe OD's Match Standard SDR-35 PVC Pipe

**NOTE:** \*For concrete pipe, Kwik Seal meets/or exceeds ATMC C 1478 and the physical properties of ASTM C923 only.



### OTHER PIPE SIZES and TYPES

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## INSTALLATION INSTRUCTIONS

### TO PREPARE STRUCTURE OPENING FOR GASKET

1. Clean opening thoroughly, removing any dirt or debris.
2. To retain gasket in structure opening, spray Transtar Contact Adhesive (**caution-flammable**) all around entrance area of opening at least 2-inches (50 mm) wide.

### TO INSTALL GASKET INTO MANHOLE

1. Install gasket by squeezing into a heart shape and inserting into hole from outside of structure.
2. Smooth gasket around hole by working any excess rubber around the hole until gasket lies flat against hole ID.
3. Push gasket lip back into hole until it bottoms completely around hole.

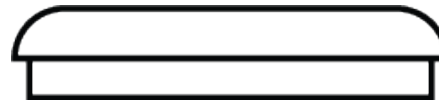
### TO INSTALL PIPE INTO GASKET

1. Make sure that pipe end is clean and well-beveled for at least 3/4" (19 mm) from end all around.
2. Make sure that pipe end is clean for at least 15" from end.
3. Apply lubricant generously to pipe and to fins of installed gasket. Make sure that entire pipe is lubricated for at least 15" from end.
4. Center pipe carefully in gasket and begin to push inward. Push straight into hole. Installation pressure will drop slightly after first fin is cleared. This locks gasket into the hole.
5. Continue pushing, and pressure will increase until pipe end clears gasket completely.
6. Move pipe inward until it clears interior plane of structure wall. Move pipe to proper elevation and angle. Installation is now complete.

### ITEMS NEEDED



SPRAY ADHESIVE



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**CAUTION:** DO NOT APPLY ANY LUBRICANT TO UNDERSIDE OF GASKET.



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