

PSX: POSITIVE SEAL

PIPE TO MANHOLE CONNECTOR



What It Is

The PSX: Positive Seal is a high-performance flexible pipe-to-manhole connector that offers easy installation and long-term performance in one convenient product.

Whether you core or cast your holes, PSX: Positive 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.
- A power sleeve made from tempered series 304 stainless steel expands with a calibrated hydraulic installation tool.
- Take-up clamps made from series 304 stainless steel with quick adjusting screws secure the connector to the pipe.

Why It's Better

- Safely install from outside of the manhole preventing falls from crawling down into structures.
- All stainless-steel components with no welds or rivets creating a stronger product.
- Precision molding provides accurate compensation for hole size variations.
- 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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PSX: POSITIVE SEAL

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 PSX: POSITIVE SEAL as manufactured by Press-Seal Corporation, Fort Wayne, Indiana, or approved equal.

The connector assembly 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 rubber gasket, an internal expansion sleeve, and one or more external compression take-up clamps. Approved materials for the connector shall be virgin rubber and Series 300 non-magnetic stainless steel. No plastic components shall be permitted.

The rubber gasket element shall be constructed solely of synthetic or natural rubber, shall meet/exceed the requirements of ASTM C923, and shall have a minimum tensile strength of 1600 PSI. Minimum thickness of the cross-section shall be 0.275 inches (7 mm).

The internal expansion sleeve components shall be made of Series 300 non-magnetic stainless steel and shall utilize no welds in their construction.

Installation shall be performed using a calibrated installation tool available from the connector manufacturer. Installation of the sleeve shall require no re-tightening after the initial installation.

The external compression take-up clamp(s) shall be constructed of Series 300 non-magnetic stainless steel and shall utilize no welds in its constructions. The clamp(s) shall be installed by torquing the adjusting screw using a torque-setting wrench available from the connector manufacturer.

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 C923.

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

PSX: Positive Seal meets or exceeds all requirements of the following Specifications and/or Test Methods:

- ASTM C 923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
- ASTM C 1244 Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test
- ASTM C 1478 - Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes, and Laterals
- ASTM F 2510 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Corrugated High Density Polyethylene Drainage Pipes



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PSX: POSITIVE SEAL SELECTION GUIDE

Pipe OD 1.90" - 13.20"

PIPE DESCRIPTION	PIPE O.D.	NOMINAL HOLE SIZE	PSX: POSITIVE SEAL SIZE DESIGNATION
1.5" PVC	1.90" 48 mm	8.00 203 mm	8QRS "STEP S" PSX
2" PVC	2.38" 60 mm	8.00 203 mm	8QRS "STEP S" PSX
2" CI/DI	2.50" 64 mm	8.00 203 mm	8QRS "STEP S" PSX
2.25" CI/DI	2.75" 70 mm	8.00 203 mm	8QRS "STEP R" PSX
3" PVC	3.50" 89 mm	8.00 203 mm	8QRS "STEP R" PSX
3" CI/DI	3.96" 101 mm	8.00 203 mm	8QRS "STEP Q" PSX
4" PVC D3033 / D3034	4.21" 107 mm	8.00 203 mm	8QRS "STEP Q" PSX
4" TRUSS	4.30" 109 mm	8.00 203 mm	8QRS "STEP Q" PSX
4" CI/DI 4" C900 PVC	4.80" 122 mm	8.00 203 mm	8QRS "STEP Q" PSX OR 8A PSX
6" PVC D3033/ D3034	6.27" 159 mm	8.00 203 mm	8B PSX
		9.00 229 mm	9A PSX
		11.00 279 mm	11Y PSX
		12.00 305 mm	12Y PSX
6" TRUSS	6.30" 160 mm	8.00 203 mm	8B PSX
		9.00 229 mm	9A PSX
		11.00 279 mm	11Y PSX
		12.00 305 mm	12Y PSX
6" PVC D2241	6.62" 168 mm	9.00 229 mm	9A PSX OR 9B PSX
		10.00 254 mm	10A PSX
		11.00 279 mm	11Y PSX
		12.00 305 mm	12Y PSX
6" CI/DI 6" C900 PVC	6.90" 175 mm	9.00 229 mm	9A PSX OR 9B PSX
		10.00 254 mm	10A PSX
		11.00 279 mm	11Y PSX
		12.00 305 mm	12Y PSX
8" PVC D3033	8.16" 207 mm	10.00 254 mm	10B PSX
		11.00 279 mm	11M PSX OR 11A PSX
		12.00 305 mm	12M PSX

PIPE DESCRIPTION	PIPE O.D./IN.	NOMINAL HOLE SIZE	PSX: POSITIVE SEAL SIZE DESIGNATION
8" PVC D3034	8.40" 213 mm	10.00 254 mm	10B PSX
		11.00 279 mm	11M PSX OR 11A PSX
		12.00 305 mm	12M PSX
8" PVC D2241	8.625" 219 mm	11.00 279 mm	11M OR 11A OR 11B PSX
		12.00 305 mm	12M PSX OR 12A PSX
8" CI/DI 8" C900 PVC	9.05" 230 mm	11.00 279 mm	11M PSX OR 11B PSX
		12.00 305 mm	12M PSX OR 12A PSX
		13.00 330 mm	13L PSX
8" TRUSS	9.40" 239 mm	11.00 279 mm	11B PSX
		12.00 305 mm	12A PSX OR 12B PSX
		13.00 330 mm	13L PSX
10" PVC D3033	10.20" 259 mm	12.00 305 mm	12B PSX
		13.00 330 mm	13A PSX
		14.00 356 mm	14L PSX
		16.00 406 mm	16Y PSX
10" PVC D3034	10.50" 267 mm	13.00 330 mm	13A PSX OR 13B PSX
		14.00 356 mm	14M PSX
		16.00 406 mm	16Y PSX
10" PVC D2241	10.75" 273 mm	13.00 330 mm	13A PSX OR 13B PSX
		14.00 356 mm	14M PSX
		16.00 406 mm	16Y PSX
10" CI/DI 10" C900 PVC	11.10" 282 mm	13.00 330 mm	13B PSX
		14.00 356 mm	14M PSX OR 14A PSX
		16.00 406 mm	16Y PSX
10" TRUSS	11.80" 300 mm	14.00 356 mm	14B PSX
		16.00 406 mm	16L PSX
12" PVC D3033	12.24" 311 mm	14.00 356 mm	14B PSX
		16.00 406 mm	16L PSX OR 16M PSX
12" PVC D3034	12.50" 318 mm	16.00 406 mm	16M PSX
12" PVC D2241	12.75" 324 mm	16.00 406 mm	16M PSX
12" CI/DI	13.20" 335 mm	16.00 406 mm	16M PSX OR 16A PSX
		18.00 406 mm	18L PSX-2

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PSX: POSITIVE SEAL SELECTION GUIDE

Pipe OD 14.10" - 52.50"

PIPE DESCRIPTION	PIPE O.D.	NOMINAL HOLE SIZE/IN.	PSX: POSITIVE SEAL SIZE DESIGNATION
12" TRUSS	14.10" 358 mm	16.00 406 mm	16B PSX
		18.00 457 mm	18L PSX-2
15" PVC D3033 / D3034 14" CI/DI	15.30" 389 mm	18.00 457 mm	18M PSX-2
		20.00 508 mm	20L PSX-2
12" RCP WALL B	16.00" 406 mm	18.00 457 mm	18B PSX-2
		20.00 508 mm	20L PSX-2 OR 20A PSX-2
16" CI/DI	17.40" 442 mm	20.00 508 mm	20B PSX-2
		22.00 559 mm	22L PSX-2
15" TRUSS	17.70" 450 mm	20.00 508 mm	20B PSX-2
		22.00 559 mm	22L PSX-2
18" PVC F679	18.70" 475 mm	22.00 559 mm	22M PSX-2
18" CI/DI 15" RCP WALL B	19.50" 495 mm	22.00 559 mm	22M PSX-2 OR 22B PSX-2
		24.00 610 mm	24L PSX-2
20" CI/DI	21.60" 549 mm	24.00 610 mm	24A PSX-2 OR 24B PSX-2
		26.00 660 mm	26L PSX-2
21" PVC F679	22.04" 560 mm	24.00 610 mm	24A PSX-2 OR 24B PSX-2
		26.00 660 mm	26L PSX-2
18" RCP WALL B	23.00" 584 mm	26.00 660 mm	26A PSX-2
24" PVC F679	24.80" 630 mm	28.00 711 mm	28A PSX-2
24" CI/DI	25.80" 655 mm	28.00 711 mm	28B PSX-2
		30.00 762 mm	30L PSX-2
21" RCP WALL B	26.50" 673 mm	30.00 762 mm	30L PSX-2 OR 30A PSX-2

PIPE DESCRIPTION	PIPE O.D./IN.	NOMINAL HOLE SIZE/IN.	PSX: POSITIVE SEAL SIZE DESIGNATION
27" PVC F679	27.95" 710 mm	30.00 762 mm	30B PSX-2
		32.00 813 mm	32L PSX-2
24" RCP WALL B	30.00" 762 mm	32.00 813 mm	32B PSX-2
		34.00 864 mm	34L PSX-2
24" RCP WALL C	31.50" 800 mm	34.00 864 mm	34A PSX-2 OR 34B PSX-2
		36.00 914 mm	36L PSX-2
30" CI/DI	32.00" 813 mm	34.00 864 mm	34B PSX-2
		36.00 914 mm	36A PSX-2
27" RCP WALL B	33.50" 851 mm	36.00 914 mm	36B PSX-2
		38.00 965 mm	38A PSX-2
27" RCP WALL C	35.00" 889 mm	38.00 965 mm	38B PSX-2
		40.00 1016 mm	40L PSX-2
30" RCP WALL B	37.00" 940 mm	40.00 1016 mm	40A PSX-2
36" CI/DI	38.30" 973 mm	40.00 1016 mm	40B PSX-2
		42.00 1067 mm	42A PSX-2
30" RCP WALL C	38.50" 978 mm	42.00 1067 mm	42A PSX-2
36" RCP WALL B	44.00" 1118 mm	46.00 1168 mm	46B PSX-2
42" CI/DI	44.50" 1130 mm	48.00 1219 mm	48L PSX-2
36" RCP WALL C	45.50" 1156 mm	50.00 1270 mm	50S1 PSX-2
48" CI/DI	50.80" 1290 mm	54.00 1372 mm	54S PSX-2
42" RCP WALL B	51.00" 1295 mm	54.00 1372 mm	54S PSX-2
42" RCP WALL C	52.50" 1334 mm	56.00 1422 mm	56A PSX-2

NOTE: Please contact our Customer Service for sizes not listed above. For sizes too large for PSX: Direct Drive an alternative is Cast-A-Seal 802. (Straight wall structures only)



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PSX: POSITIVE SEAL CONNECTOR CROSS REFERENCE

Hole Size 8" - 16"

PSX SIZE DESIGNATION	NOMINAL HOLE SIZE	PIPE O.D. ACCOMMODATION RANGE INCHES (mm)		PSX GASKET I.D.		PSX TAKE-UP CLAMP		MINIMUM SIZE ROUND STRUCTURE (INCHES)
				INCH	mm	(QTY)	PART #	
8QRS STEP "S" 8QRS STEP "R" 8QRS STEP "Q" *6-8QRS	8" 203 mm	1.70" TO 2.50" 2.75" TO 3.75" 3.75" TO 4.80" 1.90" TO 4.80"	43 - 64 mm 70 - 95 mm 95 - 122 mm 48 - 122 mm	2.20 3.50 4.60 N/A	56 mm 89 mm 117 mm N/A	(1) (1) (1) (1)	600-088 600-088 600-088 600-088	24"
8A 8B *08-11 *08-06	8" 203 mm	4.75" TO 5.75" 5.75" TO 6.30" 4.75" TO 5.75" 5.75" TO 6.40"	121 - 146 mm 146 - 160 mm 121 - 146 mm 146 - 163 mm	5.64 6.45 5.64 6.38	143 mm 164 mm 143 mm 162 mm	(1) (1) (1) (1)	600-128 600-128 601-104 601-128	24"
9A 9B *09-06 *09-22	9" 229 mm	6.00" TO 7.00" 6.40" TO 7.50" 6.00" TO 7.00" 6.40" TO 7.50"	152 - 178 mm 163 - 191 mm 152 - 178 mm 163 - 191 mm	6.77 7.27 6.45 7.27	172 mm 185 mm 164 mm 185 mm	(1) (1) (1) (1)	600-128 600-128 601-128 601-128	24"
10A 10B *10-11 *10-22	10" 254 mm	6.50" TO 7.65" 7.40" TO 8.50" 6.50" TO 7.65" 7.40" TO 8.50"	165 - 194 mm 188 - 216 mm 165 - 194 mm 188 - 216 mm	7.33 8.21 7.33 8.21	186 mm 209 mm 186 mm 209 mm	(1) (1) (1) (1)	600-128 600-152 601-132 601-152	24"
11Y 11A 11M 11B *11-06 *11-11 *11-08 *11-22	11" 279 mm	5.70" TO 6.90" 7.65" TO 8.75" 8.00" TO 9.10" 8.50" TO 9.50" 5.70" TO 6.90" 7.65" TO 8.75" 8.15" TO 9.05" 8.50" TO 9.50"	145 - 175 mm 194 - 222 mm 203 - 231 mm 216 - 241 mm 145 - 175 mm 194 - 222 mm 207 - 230 mm 216 - 241 mm	6.50 8.46 8.63 9.34 6.50 8.46 8.65 9.45	165 mm 215 mm 219 mm 237 mm 165 mm 215 mm 220 mm 240 mm	(1) (1) (1) (1) (1) (1) (1) (1)	600-128 600-152 600-152 600-188 601-128 601-156 601-156 601-168	24"
12Y 12M 12A 12B *12-06 *12-08 *12-11 *12-22	12" 305 mm	5.70" TO 6.90" 8.00" TO 9.10" 8.60" TO 9.75" 9.40" TO 10.50" 5.70" TO 6.90" 8.00" TO 9.10" 8.60" TO 9.75" 9.40" TO 10.50"	145 - 175 mm 203 - 231 mm 218 - 247 mm 239 - 267 mm 145 - 175 mm 203 - 231 mm 218 - 247 mm 239 - 267 mm	6.50 8.63 9.46 10.28 6.50 8.63 9.46 10.28	165 mm 219 mm 240 mm 261 mm 165 mm 219 mm 240 mm 261 mm	(1) (1) (1) (1) (1) (1) (1) (1)	600-128 600-152 600-188 600-188 601-128 601-156 601-172 601-188	24"
13L 13A 13B *13-10 *13-22	13" 330 mm	8.80" TO 9.90" 9.50" TO 10.75" 10.25" TO 11.35" 9.75" TO 10.80" 10.25" TO 11.35"	224 - 251 mm 241 - 273 mm 260 - 288 mm 248 - 274 mm 260 - 288 mm	9.65 10.40 11.03 10.65 11.03	245 mm 264 mm 280 mm 271 mm 280 mm	(1) (1) (1) (1) (1)	600-188 600-188 600-232 601-188 601-188	24"
14M 14A 14B	14" 356 mm	9.75" TO 11.10" 10.25" TO 11.30" 11.25" TO 12.25"	248 - 282 mm 260 - 287 mm 286 - 311 mm	10.35 11.10 12.03	263 mm 282 mm 306 mm	(1) (1) (1)	600-188 600-232 600-232	30"
16Y 16L 16M 16B	16" 406 mm	10.00" TO 11.10" 11.50" TO 12.50" 12.05" TO 13.30" 13.50" TO 14.50"	254 - 282 mm 292 - 318 mm 306 - 338 mm 343 - 368 mm	10.75 12.28 12.75 14.10	273 mm 312 mm 324 mm 358 mm	(1) (1) (1) (1)	600-188 600-232 600-232 600-296	36"

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PSX: POSITIVE SEAL CONNECTOR CROSS REFERENCE

Hole Size 18" - 56"

PSX SIZE DESIGNATION	NOMINAL HOLE SIZE	PIPE O.D. ACCOMMODATION INCHES (mm)		PSX GASKET I.D. (INCHES)		PSX TAKE-UP CLAMP		MINIMUM SIZE ROUND STRUCTURE (INCHES)
				INCH	mm	(QTY)	PART #	
18L 18M 18B	18" 457 mm	13.20" TO 14.50" 14.60" TO 15.85" 15.60" TO 16.50"	335 - 368 mm 371 - 403 mm 396 - 419 mm	14.10 15.35 16.42	358 mm 390 mm 417 mm	(2) (2) (2)	600-296 600-296 600-296	36"
20L 20A 20B	20" 508 mm	15.00" TO 16.25" 16.00" TO 17.20" 17.30" TO 18.50"	381 - 413 mm 406 - 361 mm 439 - 470 mm	15.92 16.92 18.17	404 mm 430 mm 462 mm	(2) (2) (2)	600-296 600-296 600-376	36"
22L 22M 22B	22" 559 mm	17.00" TO 18.15" 18.00" TO 19.50" 19.15" TO 20.40"	432 - 461 mm 457 - 495 mm 486 - 518 mm	17.80 18.70 20.05	452 mm 475 mm 509 mm	(2) (2) (2)	600-376 600-376 600-376	42"
24L 24A 24B	24" 610 mm	19.00" TO 19.75" 21.00" TO 22.10" 21.50" TO 22.50"	472 - 502 mm 533 - 561 mm 546 - 572 mm	19.55 21.93 22.43	497 mm 557 mm 570 mm	(2) (2) (2)	600-376 600-376 600-376	48"
26L 26A 26B	26" 660 mm	21.30" TO 22.40" 22.25" TO 23.40" 23.40" TO 24.50"	541 - 569 mm 565 - 594 mm 594 - 622 mm	22.18 23.12 24.31	563 mm 587 mm 617 mm	(2) (2) (2)	600-376 600-456 600-456	48"
28L 28A 28B	28" 711 mm	23.40" TO 24.60" 24.25" TO 25.50" 25.50" TO 26.50"	594 - 625 mm 616 - 648 mm 648 - 673 mm	24.31 25.13 26.32	617 mm 638 mm 669 mm	(2) (2) (2)	600-456 600-456 600-456	48"
30L 30A 30B	30" 762 mm	25.40" TO 26.60" 26.25" TO 27.40" 27.40" TO 28.40"	645 - 676 mm 667 - 696 mm 696 - 721 mm	26.32 27.12 28.32	669 mm 689 mm 719 mm	(2) (2) (2)	600-456 600-456 600-456	60"
32L 32A 32B	32" 813 mm	27.40" TO 28.60" 28.25" TO 29.40" 28.90" TO 30.20"	696 - 726 mm 718 - 748 mm 734 - 767 mm	28.32 29.13 29.83	719 mm 740 mm 758 mm	(4) (4) (4)	600-296 600-296 600-296	60"
34L 34A 34B	34" 864 mm	29.50" TO 30.70" 30.75" TO 31.75" 31.20" TO 32.30"	749 - 780 mm 781 - 806 mm 792 - 820 mm	30.33 31.58 32.08	770 mm 802 mm 815 mm	(4) (4) (4)	600-296 600-296 600-296	60"
36A 36B	36" 914 mm	31.20" TO 32.40" 32.60" TO 33.80"	792 - 823 mm 828 - 859 mm	32.08 33.59	815 mm 853 mm	(4) (4)	600-296 600-296	72"
38A 38B	38" 965 mm	32.70" TO 33.80" 34.25" TO 35.50"	831 - 859 mm 870 - 902 mm	33.59 35.15	853 mm 893 mm	(4) (4)	600-296 600-296	72"
40L 40A 40B	40" 1016 mm	34.25" TO 35.50" 36.25" TO 37.50" 37.45" TO 38.50"	870 - 902 mm 921 - 953 mm 951 - 980 mm	35.13 37.22 38.35	892 mm 945 mm 974 mm	(4) (4) (4)	600-376 600-376 600-376	72"
42L 42A 42B	42" 1067 mm	37.00" TO 38.00" 37.45" TO 38.65" 39.45" TO 40.50"	940 - 965 mm 951 - 982 mm 1002 - 1029 mm	37.60 38.35 40.35	955 mm 974 mm 1025 mm	(4) (4) (4)	600-376 600-376 600-376	72"
44B	44" 1118 mm	41.60" TO 42.30"	1057 - 1074 mm	42.33	1075 mm	(4)	600-376	84"
46L 46A 46B	46" 1168 mm	41.00" TO 41.75" 42.40" TO 43.90" 43.60" TO 44.30"	1041 - 1060 mm 1077 - 1115 mm 1107 - 1125 mm	41.36 43.12 44.33	1051 mm 1095 mm 1126 mm	(4) (4) (4)	600-376 600-376 600-376	84"
48A 48L 48S	48" 1219 mm	45.20" TO 46.20" 43.60" TO 45.10" 44.00" TO 45.50"	1148 - 1173 mm 1107 - 1146 mm 1118 - 1156 mm	45.99 44.33 44.74	1168 mm 1126 mm 1136 mm	(4) (4) (4)	600-376 600-376 600-376	84"
50S 50S1 50S2	50" 1270 mm	44.20" TO 45.70" 45.00" TO 46.50" 44.00" TO 45.50"	1123 - 1161 mm 1143 - 1181 mm 1118 - 1156 mm	44.99 45.74 44.74	1143 mm 1162 mm 1136 mm	(4) (4) (4)	600-376 600-376 600-376	96"
52A	52" 1321 mm	48.80" TO 50.30"	1240 - 1278 mm	49.50	1257 mm	(4)	600-456	96"
54A 54S 54L	54" 1372 mm	51.30" TO 52.30" 50.30" TO 51.80" 48.90" TO 50.40"	1303 - 1328 mm 1278 - 1316 mm 1242 - 1280 mm	52.01 51.01 49.63	1321 mm 1296 mm 1261 mm	(4) (4) (4)	600-456 600-456 600-456	96"
56A 56S	56" 1422 mm	52.00" TO 53.50" 50.50" TO 52.00"	1321 - 1359 mm 1283 - 1321 mm	52.76 51.29	1340 mm 1303 mm	(4) (4)	600-456 600-456	96"

PIPE TO MANHOLE & TANK CONNECTORS



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PSX: POSITIVE SEAL SELECTION GUIDE

Profile PVC Pipe

Contech A-2000 w/Rubber Adapter		
PIPE DESCRIPTION	PIPE O.D.	PSX: POSITIVE SEAL
4" 100 mm	4.30" 109 mm	8QRS
6" 150 mm	6.42" 150 mm	9A 11Y 12Y
8" 200 mm	8.60" 218 mm	11M 12M
10" 250 mm	10.79" 274 mm	13A 13-10 14M 14A 16Y
12" 300 mm	12.80" 325 mm	16M
15" 375 mm	15.66" 398 mm	18M 20L
18" 450 mm	19.15" 486 mm	22M 24L
21" 525 mm	22.59" 574 mm	26A
24" 600 mm	25.58" 650 mm	28S2
30" 750 mm	32.15" 817 mm	34B 36A
36" 900 mm	38.74" 984 mm	42S

NOTE: All corrugated style pipe must use an adapter to fill the valleys to be smooth and level with the top of the corrugations.

Prime Conduit Vylon Pipe			
PIPE DESCRIPTION	PIPE O.D.		PSX: POSITIVE SEAL
21" 550 mm	22.11" 562 mm	22.28" 566 mm	24 B or 26L PSX-2
24" 600 mm	25.04" 638 mm	25.24" 641 mm	28 A PSX-2
27" 700 mm	28.23" 717 mm	28.46" 723 mm	30 B or 32L PSX-2
30" 750 mm	31.43" 798 mm	31.69" 805 mm	34 B or 36 A PSX-2
36" 900 mm	37.80" 960 mm	38.13" 969 mm	40 B or 42L PSX-2
42" 1050 mm	44.20" 1123 mm	44.58" 1132 mm	48L PSX-2
48" 1200 mm	50.57" 1284 mm	51.02" 1296 mm	54 A PSX-2
54" 1350 mm	56.96" 1447 mm	57.47" 1460 mm	N/A

NOTE: Prime Conduit Vylon pipe has varying stiffness ratings ranging from 46PSI - 72PSI.

P. W. EAGLE/UPONOR ULTRARIB, ULTRACORR W/ PVC ADAPTER

NOTE: Ultrarib and Ultracorr pipe require a smooth PVC adapter for use with PSX:Direct Drive Connectors. Contact Customer Service for more information.

SPECIAL NOTE: Installation of large diameter pipe, with or without adapters, requires special care. Consult pipe manufacturer for special installation instructions for each pipe.

For sizes too large for PSX: Direct Drive an alternative is Cast-A-Seal 802. (*Straight wall structures only*)

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PSX: POSITIVE SEAL SELECTION GUIDE

Corrugated HDPE Pipe

N12 Corrugated Pipe Adapter Gasket			
Drawing numbers for reference: STD-204E, 205C, 207E			
PIPE DESCRIPTION	PIPE O.D.	ADAPTER PART NUMBER	PSX: POSITIVE SEAL
8" 200 mm	9.1" 231 mm	CONTACT ADS	11B 12A
10" 250 mm	11.4" 290 mm	CONTACT ADS	13B 14A 16L
12" 300 mm	14.5" 368 mm	454.1770.12	16B 18L
15" 375 mm	17.6" 447 mm	454.1794.15	20B 22L
18" 450 mm	21.2" 538 mm	454.1776.18	24S
24" 600 mm	27.8" 706 mm	454.1804.24	30B 32L
30" 750 mm	35.1" 892 mm	454.1802.30	38B 40L
36" 900 mm	41.1" 1044 mm	CONTACT ADS	44B 46L
42" 1050 mm	47.3" 1212 mm	CONTACT ADS	52B
48" 1200 mm	53.8" 1367 mm	CONTACT ADS	N/A
54" 1350 mm	61.0" 1549 mm	N/A	N/A
60" 1524 mm	66.3" 1500 mm	N/A	N/A
NOTE: All corrugated style pipe must use an adapter to fill the valleys to be smooth and level with the top of the corrugations.			

ADS SaniTite® HP TW		
Drawing numbers for reference: STD-205E: 30"-60" Triple Wall SaniTite® HP Watertight Connection Using A Manhole Boot.		
PIPE DESCRIPTION	PIPE O.D.	PSX: POSITIVE SEAL
30" 762 mm	35.3" 897 mm	40L
36" 914 mm	41.1" 1044 mm	46L
42" 1066 mm	47.3" 1201 mm	N/A
48" 1219 mm	53.8" 1367 mm	N/A
60" 1524 mm	66.7" 1694 mm	N/A

ADS SaniTite® HP Manhole Sleeve Adapter			
Drawing numbers for reference: STD-205A, 205D, 207A, 207C			
PIPE DESCRIPTION	PIPE O.D.	ADS Adapter Product Code	PSX: DIRECT DRIVE
12" 300mm	15.3" 388.6 mm	1222AAPP	18M 20L
15" 375 mm	18.3" 464.8 mm	1522AAPP	20B 22M
18" 450 mm	22.0" 558.8 mm	1822AAPP	24A 24B 26L
24" 600 mm	29.0" 736.6 mm	2422AAPP	32A 32B
NOTE: The ADS sleeve adapter is exclusively manufactured by and for ADS.			

ADS SaniTite® HP Nyloplast PVC Pipe Manhole Adapter			
Drawing STD-205A, 205D, 207A, 207C			
PIPE DESCRIPTION	PIPE O.D.	Nyloplast PVC Product Code	PSX: DIRECT DRIVE
12" 300 mm	12.5" 317.5 mm	1257AGHPU2	16M
15" 375 mm	15.3" 388.6 mm	1557AGHPU2	18M 20L
18" 450 mm	18.7" 475.0 mm	1857AGHPU2	22M
21" 525 mm	22.1" 561.3 mm	2157AGHPU2	24A 24B 26L
24" 600 mm	24.8" 629.9 mm	2457AGHPU2	28A
NOTE: Nyloplast pipe OD's match standard SDR-35 PVC Pipes			



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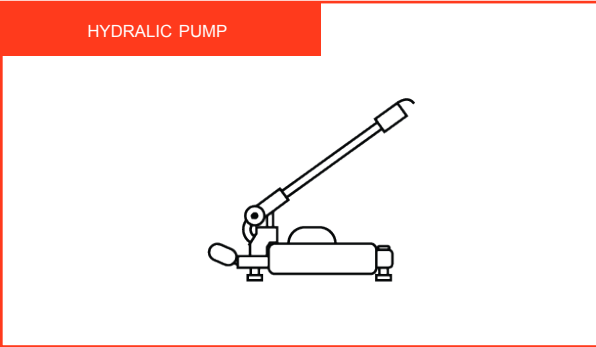
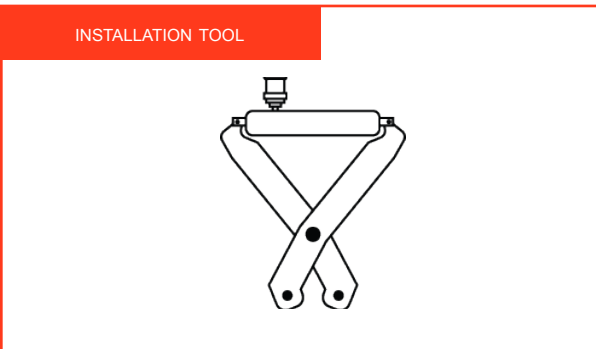
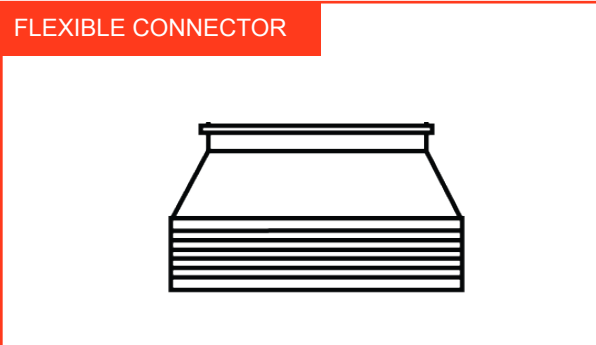
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PSX: POSITIVE SEAL INSTALLATION INSTRUCTIONS

ITEMS NEEDED



CAUTION:

1. Adequate eye protection must be worn when installing PSX:Positive Seal using the Hydraulic Installation Tool.
2. Before use, examine installation studs for excess wear, damage, or abnormalities and replace (not rotate) the stud(s) if these conditions are observed.
3. Keep hands on cylinder section and not on tool cross-arms.

HOLE SIZE	PSX MINIMUM INSTALLATION PRESSURE
8" - 10" 203 - 254 mm	2200 psi
11" - 13" 279 - 330 mm	2500 psi
14" - 18" 356 - 457 mm	3000 psi
20" - 24" 508 - 610 mm	3750 psi
26" - 30" 660 - 762 mm	4500 psi
32" - 36" 813 - 914 mm	5500 psi
38" - 42" 965 - 1067 mm	6000 psi

1. Inspect hole. Wall surface must be CLEAN and SMOOTH. Fill all voids with non-shrink cementitious patching compound and allow to dry.
2. Place gasket into porthole with holes in stainless steel power sleeve at the 6 o'clock position. Gasket should rest 1/2" to 1" from the inside of the hole.
3. Place hydraulic tool inside gasket and open slightly by closing valve and pumping the handle on hydraulic unit. Align and insert studs of tool in holes of power sleeve. (See illustration A)
4. Once studs are inserted in power sleeve, pump hydraulic unit until gasket stays positioned in the hole without any hand assistance. Gasket must be aligned square in the hole at this point. Make any necessary adjustments in sleeve ends to ensure that they are aligned on top of each other.
5. Pump the hydraulic unit to start expanding power sleeve. (See illustration B)
6. Continue pumping the hydraulic unit while watching sleeve ends to make sure they stay aligned on top of each other.
7. Once the sleeve ends snap into place face-to-face, check the gauge to make sure minimum pressure (see above) has been achieved.
8. Relax the power sleeve slightly by releasing valve on hydraulic pump. This will interlock the ends of the power sleeve to ensure a positive seal.

INFORMATION: Pivot Bolt connecting the scissor arms must be sufficiently tightened to minimize gap between scissor arms, while allowing for free movement of the joint.

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PSX: POSITIVE SEAL INSTALLATION INSTRUCTIONS

For more helpful hints, see below

1. When sleeve ends are not aligned on top of each other, move the back end of the tool right or left to align sleeve ends for interlocking.
2. Due to the tapered walls, our hole formers are cast in the manhole. If a sleeve will not expand into the lock position, the gasket can be moved toward the outside of the manhole, where the hole diameter is larger. Here, the power sleeve can be interlocked at a more acceptable pressure.
3. When a lubricant (vegetable soap, liquid detergent or graphite) is applied between the power sleeve and the PSX gasket, the installation pressure can be reduced for greater ease of installation.
4. When minimum installation pressures are not reached, thin plastic shims are available to increase pressure. The shims are designed to fit between the steel power sleeve and the PSX Gasket and will increase installation pressures to required levels. Contact our Customer Service Department for more information and installation instructions for plastic shims.
5. All steel power sleeves can also be manufactured to different lengths, if needed, so that ideal installation pressures are achieved.
6. To remove an installed PSX gasket, use the installation tool to expand the sleeve out of the interlock position. While power sleeve is expanded, use a pry tool to force one end of the sleeve up over the other end, so sleeve can be relaxed and removed.
7. It is recommended that the studs be replaced annually, at a minimum.
8. **Modifications to this tool to alter OEM design intent is NOT recommended.**



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