

HDPE TECHNICAL INFORMATION

The following standard PowerSeal products have been evaluated and approved for use with high density polyethylene pipe based upon certain modifications and restrictions related to the unique properties of HDPE pipe compared with more commonly used rigid pipe materials.



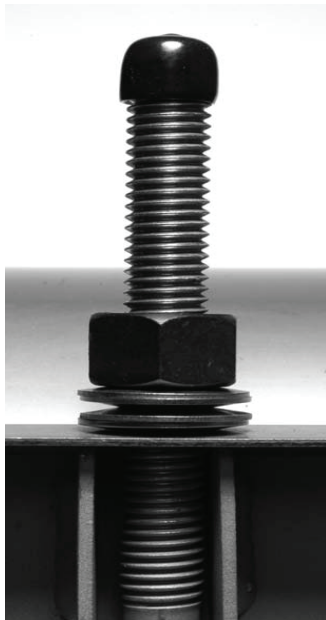
Products shown in the HDPE section are the only products suitable for HDPE applications. Do not use products in other sections on HDPE pipe.

PRODUCT RESTRICTIONS WHEN USED WITH HDPE

- Maximum operating pressure: 150 PSI (150 Mpa)
- Temperatures ranges: 32° - 75°F (0° - 23.9° C)
- Manufacturing standard: AWWA/ANSI C906-90
- Underground service only
- Pipe Stiffeners must be placed in each pipe end when used on mechanical bolt on fittings
- Clamp and sleeve width must exceed pipe diameter
- Pipe SDR (wall thickness) no more than 17 (PN-10)
- Each bolt must have four spring washers

KEY PROPERTIES INHERENT WITH HDPE

- Toe in happens when HDPE is cut which can alter the ability of any sleeve or saddle to seal and affect the installation of stiffeners.
- The coefficient of thermal expansion is over 10 times that of ductile and steel pipe and 3 times as much as PVC. This equates to the possibility of shrinkage at these same levels versus these types of pipes when it gets cold. This raises the chances of a fitting loosening on it. It also has a tendency to shrink lengthwise 1 inch (25.4mm) per 100 feet (30.48m) of pipe with a 10°F (5.5° C) reduction temperature. This results in the pipe pulling out of fittings.
- A low coefficient of friction makes the exterior surface of the pipe very smooth or slick which results in gasket fittings being prone to rotation or movement on the pipe.
- Pipe systems must be engineered to allow for pipe movements so to limit fittings movement.

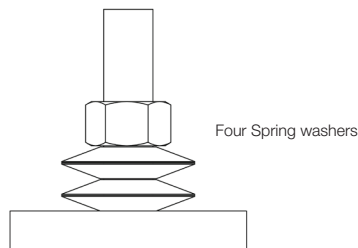
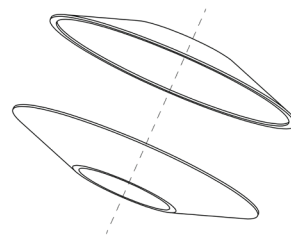


All bolts will be supplied with four spring washer.

SPRING WASHERS

NOTICE!!

PowerSeal does not warrant products used when the installation does not conform to any of the restrictions listed above. Contact our engineering department if you have questions about using our products on HDPE.



3121AS-PE ALL STAINLESS SINGLE PANEL

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-0-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -25°F to +200°F per ASTM D2000. Other materials available.

ARMOR PLATE: TType 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: ype 304 (18-8) Stainless Steel per ASTM A193 and A194.

NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.



Nominal Pipe Size		Pipe OD Range		Width		Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM		
2	50.00	2.35 - 2.63	60 - 67	8	200	3121020080CA-PE	\$ 163.10
				10	250	3121020100CA-PE	\$ 227.10
				12	300	3121020120CA-PE	\$ 271.50
				16	400	3121020160CA-PE	\$ 292.40
				20	500	3121020200CA-PE	\$ 330.00
				24	600	3121020240CA-PE	\$ 404.40
				30	750	3121020300CA-PE	\$ 536.40
2.5	63	2.70 - 3.00	69 - 77	8	200	3121025080CA-PE	\$ 169.60
				10	250	3121025100CA-PE	\$ 235.40
				12	300	3121025120CA-PE	\$ 277.90
				16	400	3121025160CA-PE	\$ 301.00
				20	500	3121025200CA-PE	\$ 364.50
				24	600	3121025240CA-PE	\$ 412.50
				30	750	3121025300CA-PE	\$ 544.50
3B	75	3.46 - 3.70	88 - 94	8	200	312103B080CA-PE	\$ 178.00
				10	250	312103B100CA-PE	\$ 246.00
				12	300	312103B120CA-PE	\$ 288.40
				16	400	312103B160CA-PE	\$ 325.60
				20	500	312103B200CA-PE	\$ 417.60
				24	600	312103B240CA-PE	\$ 709.50
				30	750	312103B300CA-PE	\$ 866.40
3C	75	3.73 - 4.00	95 - 102	8	200	312103C080CA-PE	\$ 178.00
				10	250	312103C100CA-PE	\$ 246.00
				12	300	312103C120CA-PE	\$ 288.40
				16	400	312103C160CA-PE	\$ 325.60
				20	500	312103C200CA-PE	\$ 417.60
				24	600	312103C240CA-PE	\$ 709.50
				30	750	312103C300CA-PE	\$ 866.40

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Nominal Pipe Size		Pipe OD Range		Width		Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM		
4A	100	4.45 - 4.73	112 - 120	8	200	312104A080CA-PE	\$ 200.90
				10	250	312104A100CA-PE	\$ 273.62
				12	300	312104A120CA-PE	\$ 319.00
				16	400	312104A160CA-PE	\$ 354.80
				20	500	312104A200CA-PE	\$ 538.00
				24	600	312104A240CA-PE	\$ 721.60
				30	750	312104A300CA-PE	\$ 880.40
4B	100	4.74 - 5.14	119 - 131	8	200	312104B080CA-PE	\$ 200.90
				10	250	312104B100CA-PE	\$ 273.60
				12	300	312104B120CA-PE	\$ 319.00
				16	400	312104B160CA-PE	\$ 354.80
				20	500	312104B200CA-PE	\$ 538.00
				24	600	312104B240CA-PE	\$ 721.60
				30	750	312104B300CA-PE	\$ 880.40
6B	150	6.56 - 6.96	167 - 177	8	200	312106B080CA-PE	\$ 240.40
				10	250	312106B100CA-PE	\$ 325.60
				12	300	312106B120CA-PE	\$ 383.90
				16	400	312106B160CA-PE	\$ 423.10
				20	500	312106B200CA-PE	\$ 638.50
				24	600	312106B240CA-PE	\$ 803.40
				30	750	312106B300CA-PE	\$ 1,046.00
6C	150	6.84 - 7.24	174 - 184	8	200	312106C080CA-PE	\$ 240.40
				10	250	312106C100CA-PE	\$ 325.60
				12	300	312106C120CA-PE	\$ 383.90
				16	400	312106C160CA-PE	\$ 423.10
				20	500	312106C200CA-PE	\$ 638.50
				24	600	312106C240CA-PE	\$ 803.40
				30	750	312106C300CA-PE	\$ 1,046.00
8B	200	8.54 - 8.94	217 - 227	8	200	312108B080CA-PE	\$ 281.60
				10	250	312108B100CA-PE	\$ 373.00
				12	300	312108B120CA-PE	\$ 452.00
				16	400	312108B160CA-PE	\$ 516.50
				20	500	312108B200CA-PE	\$ 731.60
				24	600	312108B240CA-PE	\$ 911.00
				30	750	312108B300CA-PE	\$ 1,201.00
8C	200	8.99 - 9.39	228 - 239	8	200	312108C080CA-PE	\$ 281.60
				10	250	312108C100CA-PE	\$ 373.00
				12	300	312108C120CA-PE	\$ 452.00
				16	400	312108C160CA-PE	\$ 516.50
				20	500	312108C200CA-PE	\$ 731.60
				24	600	312108C240CA-PE	\$ 911.00
				30	750	312108C300CA-PE	\$ 1,201.00

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Nominal Pipe Size		Pipe OD Range		Width		Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM		
10B	250	10.64 - 11.04	270 - 280	8	200	312110B080CA-PE	\$ 375.40
				10	250	312110B100CA-PE	\$ 493.60
				12	300	312110B120CA-PE	\$ 588.90
				16	400	312110B160CA-PE	\$ 676.50
				20	500	312110B200CA-PE	\$ 903.40
				24	600	312110B240CA-PE	\$ 1,122.10
				30	750	312110B300CA-PE	\$ 1,535.90
10C	250	11.04 - 11.44	280 - 291	8	200	312110C080CA-PE	\$ 375.40
				10	250	312110C100CA-PE	\$ 493.60
				12	300	312110C120CA-PE	\$ 588.90
				16	400	312110C160CA-PE	\$ 676.50
				20	500	312110C200CA-PE	\$ 903.40
				24	600	312110C240CA-PE	\$ 1,122.10
				30	750	312110C300CA-PE	\$ 1,535.90
12B	300	12.62 - 13.02	321 - 331	8	200	312112B080CA-PE	\$ 565.00
				10	250	312112B100CA-PE	\$ 565.00
				12	300	312112B120CA-PE	\$ 683.10
				16	400	312112B160CA-PE	\$ 771.60
				20	500	312112B200CA-PE	\$ 1,071.50
				24	600	312112B240CA-PE	\$ 1,272.60
				30	750	312112B300CA-PE	\$ 1,816.50
12C	300	13.10 - 13.50	333 - 343	8	200	312112C080CA-PE	\$ 565.00
				10	250	312112C100CA-PE	\$ 565.00
				12	300	312112C120CA-PE	\$ 683.10
				16	400	312112C160CA-PE	\$ 771.60
				20	500	312112C200CA-PE	\$ 1,071.50
				24	600	312112C240CA-PE	\$ 1,272.60
				30	750	312112C300CA-PE	\$ 1,816.50

MANUFACTURERS RECOMMENDATIONS

- Clamp width should equal or exceed pipe diameter for higher working pressures.
- Repair Clamps are not recommended for use in joining plain end pressure pipe.
- Other sizes and widths not listed are readily available. Price on request.

Pipe OD Range = 0.40" (10mm) Pipe Sizes 1 1/4 through 6 inch are available in 6 inch Width and are priced the same as the 8 inch Width.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code, and Width. EXAMPLE: For 6" HDPE pipe with 6.90" O.D. and 12" Clamp Width. Order 3121AS-PE - 6C x 12. **Part Number:** 312106C120CA-PE .

NOTE: Clamps will not eliminate axial / lateral movement of pipe. Some type of pipe restraint or anchoring product must be used in these situations.