

## 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.



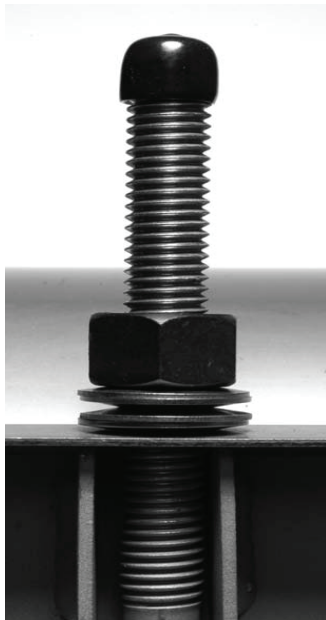
Products shown in the HDPE section are the only products suitable for HDPE applications. Do not use products in other sections on HDPE pipe.

### 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.

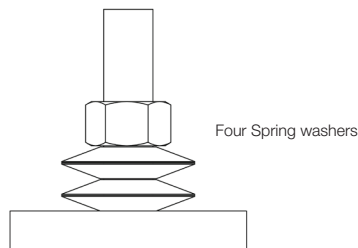
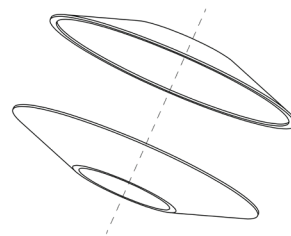


All bolts will be supplied with four spring washer.

### 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.



### 3122AS-PE ALL STAINLESS DOUBLE PANEL

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

**BOLTS & NUTS:** Type 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		
3	75	3.49-4.29	89-109	8	200	3122030080CA-PE	\$ 257.00
				10	250	3122030100CA-PE	\$ 311.00
				12	300	3122030120CA-PE	\$ 406.00
				16	400	3122030160CA-PE	\$ 479.40
				20	500	3122030200CA-PE	\$ 776.90
				24	600	3122030240CA-PE	\$ 812.00
				30	750	3122060300CA-PE	\$ 958.40
4A	100	4.44 - 5.24	113-133	8	200	312204A080CA-PE	\$ 313.80
				10	250	312204A100CA-PE	\$ 412.10
				12	300	312204A120CA-PE	\$ 488.00
				16	400	312204A160CA-PE	\$ 906.90
				20	500	312204A200CA-PE	\$ 1,209.30
				24	600	312204A240CA-PE	\$ 1,511.50
				30	750	312204A300CA-PE	\$ 1,778.30
4B	100	4.74 - 5.57	120-141	8	200	312204B080CA-PE	\$ 313.80
				10	250	312204B100CA-PE	\$ 412.10
				12	300	312204B120CA-PE	\$ 488.00
				16	400	312204B160CA-PE	\$ 906.90
				20	500	312204B200CA-PE	\$ 1,209.30
				24	600	312204B240CA-PE	\$ 1,511.50
				30	750	312204B300CA-PE	\$ 1,778.30
6A	150	6.62 - 7.42	168-188	8	200	312206A080CA-PE	\$ 360.60
				10	250	312206A100CA-PE	\$ 464.00
				12	300	312206A120CA-PE	\$ 528.40
				16	400	312206A160CA-PE	\$ 922.50
				20	500	312206A200CA-PE	\$ 1,230.10
				24	600	312206A240CA-PE	\$ 1,537.60
				30	750	312206A300CA-PE	\$ 1,809.00

**3122AS-PE ALL STAINLESS DOUBLE PANEL**

Nominal Pipe Size		Pipe OD Range		Width		Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM		
6B	150	6.84 - 7.64	174-194	8	200	312206B080CA-PE	\$ 360.60
				10	250	312206B100CA-PE	\$ 464.00
				12	300	312206B120CA-PE	\$ 528.40
				16	400	312206B160CA-PE	\$ 922.50
				20	500	312206B200CA-PE	\$ 1,230.10
				24	600	312206B240CA-PE	\$ 1,537.60
				30	750	312206B300CA-PE	\$ 1,809.00
8A	200	8.62 - 9.42	219-239	8	200	312208A080CA-PE	\$ 412.80
				10	250	312208A100CA-PE	\$ 515.10
				12	300	312208A120CA-PE	\$ 600.40
				16	400	312208A160CA-PE	\$ 938.00
				20	500	312208A200CA-PE	\$ 1,250.60
				24	600	312208A240CA-PE	\$ 1,563.40
				30	750	312208A300CA-PE	\$ 1,839.10
8B	200	8.99 - 9.79	228-249	8	200	312208B080CA-PE	\$ 412.80
				10	250	312208B100CA-PE	\$ 515.10
				12	300	312208B120CA-PE	\$ 600.40
				16	400	312208B160CA-PE	\$ 938.00
				20	500	312208B200CA-PE	\$ 1,250.60
				24	600	312208B240CA-PE	\$ 1,563.40
				30	750	312208B300CA-PE	\$ 1,839.10
10A	250	10.75 - 11.55	273-293	12	300	312210A120CA-PE	\$ 721.00
				16	400	312210A160CA-PE	\$ 1,082.30
				20	500	312210A200CA-PE	\$ 1,442.90
				24	600	312210A240CA-PE	\$ 1,803.60
				30	750	312210A300CA-PE	\$ 2,121.90
10B	250	11.10 - 11.90	282-302	12	300	312210B120CA-PE	\$ 721.00
				16	400	312210B160CA-PE	\$ 1,082.30
				20	500	312210B200CA-PE	\$ 1,442.90
				24	600	312210B240CA-PE	\$ 1,803.60
				30	750	312210B300CA-PE	\$ 2,121.90
12A	300	12.75-13.55	324-344	12	300	312212A120CA-PE	\$ 927.10
				16	400	312212A160CA-PE	\$ 1,210.00
				20	500	312212A200CA-PE	\$ 1,613.40
				24	600	312212A240CA-PE	\$ 2,016.60
				30	750	312212A300CA-PE	\$ 2,372.50
12B	300	13.20-14.00	335-356	12	300	312212B120CA-PE	\$ 927.10
				16	400	312212B160CA-PE	\$ 1,210.00
				20	500	312212B200CA-PE	\$ 1,613.40
				24	600	312212B240CA-PE	\$ 2,016.60
				30	750	312212B300CA-PE	\$ 2,372.50

## 3122AS-PE ALL STAINLESS DOUBLE PANEL

Nominal Pipe Size		Pipe OD Range		Width		Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM		
12D	300	14.00-14.80	357-376	12	300	312212D120CA-PE	\$ 927.10
				16	400	312212D160CA-PE	\$ 1,210.00
				20	500	312212D200CA-PE	\$ 1,613.40
				24	600	312212D240CA-PE	\$ 2,016.60
				30	750	312212D300CA-PE	\$ 2,372.50
14B	350	15.07-15.82	383-402	12	300	312214B120CA-PE	\$ 1,052.60
				16	400	312214B160CA-PE	\$ 1,428.10
				20	500	312114B200CA-PE	\$ 1,904.10
				24	600	312214B240CA-PE	\$ 2,380.10
				30	750	312214B300CA-PE	\$ 2,800.10
16A	400	15.92 - 16.67	404-423	12	300	312216A120CA-PE	\$ 1,141.00
				16	400	312216A160CA-PE	\$ 1,711.90
				20	500	312216A200CA-PE	\$ 2,282.40
				24	600	312216A240CA-PE	\$ 2,853.00
				30	750	312216A300CA-PE	\$ 3,356.40
16C	400	17.15-17.90	436-455	12	300	312216C120CA-PE	\$ 1,141.00
				16	400	312216C160CA-PE	\$ 1,711.90
				20	500	312216C200CA-PE	\$ 2,282.40
				24	600	312216C240CA-PE	\$ 2,853.00
				30	750	312216C300CA-PE	\$ 3,356.40
18A	450	17.82 - 18.57	453-472	16	400	312218A160CA-PE	\$ 1,759.50
				20	500	312218A200CA-PE	\$ 2,428.30
				24	600	312218A240CA-PE	\$ 2,932.60
				30	750	312218A300CA-PE	\$ 3,450.10
18C	450	19.23 - 19.98	488-507	16	400	312218C160CA-PE	\$ 1,759.50
				20	500	312218C200CA-PE	\$ 2,428.30
				24	600	312218C240CA-PE	\$ 2,932.60
				30	750	312218C300CA-PE	\$ 3,450.10
20A	500	19.90 - 20.65	505-525	16	400	312220A160CA-PE	\$ 1,807.10
				20	500	312220A200CA-PE	\$ 2,409.40
				24	600	312220A240CA-PE	\$ 3,011.60
				30	750	312220A300CA-PE	\$ 3,543.10
22A	550	21.52 - 22.27	547-566	16	400	312222A160CA-PE	\$ 1,898.60
				20	500	312222A200CA-PE	\$ 2,531.60
				24	600	312222A240CA-PE	\$ 3,164.50
				30	750	312222A300CA-PE	\$ 3,722.90

### 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 = 0.80" (20mm) Pipe Sizes 3 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: 12" HDPE O.D. 13.20" with 16" Clamp Width. Order 3122AS-PE- 12B x 16. **Part Number:** 312212B160CA-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.