

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.



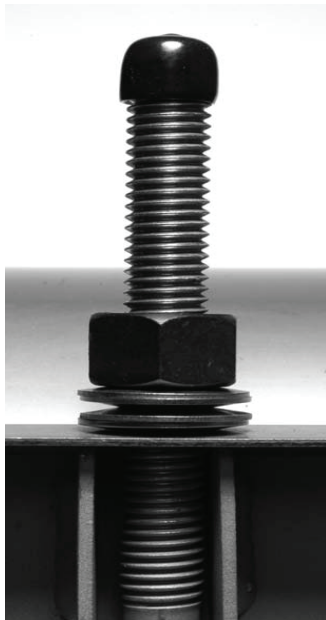
Products shown in the HDPE section are the only products suitable for HDPE applications. Do not use products in other sections on HDPE pipe.

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.

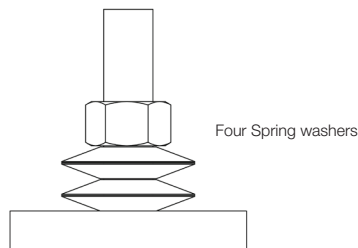
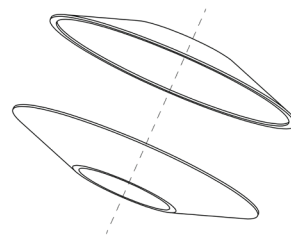


All bolts will be supplied with four spring washer.

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.



3416AS-PE ALL STAINLESS SADDLE LARGER DIAMETERS

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

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 galling.

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

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

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.



Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price					
Inches	MM	Inches	MM	Inches	MM									
14	350	14.00 - 15.20	356 - 386	8	200	A	3/4 CC	341614A075TB-PE	\$ 439.40					
							3/4 NPT	341614A075TC-PE						
							1 CC	341614A100TD-PE						
							1 NPT	341614A100TE-PE						
							1 1/4 CC	341614A125TF-PE	\$ 404.30					
							1 1/4 NPT	341614A125TG-PE						
		1 1/2 CC	341614A150TH-PE											
		1 1/2 NPT	341614A150TI-PE											
									2 CC	341614A200TJ-PE	\$ 404.30			
								2 NPT	341614A200TK-PE					
								2 1/2 FIP	341614A250TL-PE					
								3 FIP	341614A300TP-PE					
				15.30 - 16.50	389 - 419	8	200	B	3/4 CC	341614B075TB-PE	\$ 439.40			
														3/4 NPT
												1 CC	341614B100TD-PE	
												1 NPT	341614B100TE-PE	
											1 1/4 CC	341614B125TF-PE	\$ 404.30	
											1 1/4 NPT	341614B125TG-PE		
											1 1/2 CC	341614B150TH-PE		
											1 1/2 NPT	341614B150TI-PE		
												2 CC	341614B200TJ-PE	\$ 404.30
											2 NPT	341614B200TK-PE		
						2 1/2 FIP	341614B250TL-PE							
						3 FIP	341614B300TP-PE							

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Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM				
16	400	16.60 - 17.80	422 - 452	8	200	A	3/4 CC	341616A075TB-PE	\$ 473.40
							3/4 NPT	341616A075TC-PE	
							1 CC	341616A100TD-PE	
							1 NPT	341616A100TE-PE	
							1 1/4 CC	341616A125TF-PE	\$ 435.30
							1 1/4 NPT	341616A125TG-PE	
							1 1/2 CC	341616A150TH-PE	
							1 1/2 NPT	341616A150TI-PE	
							2 CC	341616A200TJ-PE	
							2 NPT	341616A200TK-PE	
							2 1/2 FIP	341616A250TL-PE	
							3 FIP	341616A300TP-PE	
							18	450	
3/4 NPT	341618A075TC-PE								
1 CC	341618A100TD-PE								
1 NPT	341618A100TE-PE								
1 1/4 CC	341618A125TF-PE	\$ 467.70							
1 1/4 NPT	341618A125TG-PE								
1 1/2 CC	341618A150TH-PE								
1 1/2 NPT	341618A150TI-PE								
2 CC	341618A200TJ-PE								
2 NPT	341618A200TK-PE								
2 1/2 FIP	341618A250TL-PE								
3 FIP	341618A300TP-PE								
19.50-20.70	495-526		8	200	B	3/4 CC			341618B075TB-PE
		3/4 NPT				341618B075TC-PE			
		1 CC				341618B100TD-PE			
		1 NPT				341618B100TE-PE			
		1 1/4 CC				341618B125TF-PE	\$ 467.70		
		1 1/4 NPT				341618B125TG-PE			
		1 1/2 CC				341618B150TH-PE			
		1 1/2 NPT				341618B150TI-PE			
		2 CC				341618B200TJ-PE			
2 NPT	341618B200TK-PE								
2 1/2 FIP	341618B250TL-PE								
3 FIP	341618B300TP-PE								

3416AS-PE ALL STAINLESS SADDLE LARGER DIAMETERS

Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price		
Inches	MM	Inches	MM	Inches	MM						
20	500	21.60 - 22.80	549 - 579	8	200	A	3/4 CC	341620B075TB-PE	\$ 573.90		
							3/4 NPT	341620B075TC-PE			
							1 CC	341620B100TD-PE			
							1 NPT	341620B100TE-PE			
							1 1/4 CC	341620B125TF-PE	\$ 612.10		
							1 1/4 NPT	341620B125TG-PE			
							1 1/2 CC	341620B150TH-PE			
							1 1/2 NPT	341620B150TI-PE			
							2 CC	341620B200TJ-PE			
							2 NPT	341620B200TK-PE			
2 1/2 FIP	341620B250TL-PE	\$ 606.00									
3 FIP	341620B300TP-PE										
24	600	24.00 - 25.20	610 - 640	8	200	A	3/4 CC	341624A075TB-PE	\$ 606.00		
							3/4 NPT	341624A075TC-PE			
							1 CC	341624A100TD-PE			
							1 NPT	341624A100TE-PE			
							1 1/4 CC	341624A125TF-PE	\$ 637.60		
							1 1/4 NPT	341624A125TG-PE			
							1 1/2 CC	341624A150TH-PE			
							1 1/2 NPT	341624A150TI-PE			
		2 CC	341624A200TJ-PE								
		2 NPT	341624A200TK-PE								
		2 1/2 FIP	341624A250TL-PE	\$ 606.00							
		3 FIP	341624A300TP-PE								
		25.80 - 27.00	655 - 686	8	200	8	200	B	3/4 CC	341624B075TB-PE	\$ 606.00
									3/4 NPT	341624B075TC-PE	
1 CC	341624B100TD-PE										
1 NPT	341624B100TE-PE										
1 1/4 CC	341624B125TF-PE								\$ 637.60		
1 1/4 NPT	341624B125TG-PE										
1 1/2 CC	341624B150TH-PE										
1 1/2 NPT	341624B150TI-PE										
2 CC	341624B200TJ-PE	\$ 606.00									
2 NPT	341624B200TK-PE										
2 1/2 FIP	341624B250TL-PE	\$ 637.60									
3 FIP	341624B300TP-PE										

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Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price		
Inches	MM	Inches	MM	Inches	MM						
30	750	30.00 - 31.20	762 - 792	8	200	A	3/4 CC	341630A075TB-PE	\$ 1,266.10		
							3/4 NPT	341630A075TC-PE			
							1 CC	341630A100TD-PE			
							1 NPT	341630A100TE-PE			
							1 1/4 CC	341630A125TF-PE	\$ 1,302.10		
							1 1/4 NPT	341630A125TG-PE			
							1 1/2 CC	341630A150TH-PE			
		1 1/2 NPT	341630A150TI-PE								
		2 CC	341630A200TJ-PE								
		2 NPT	341630A200TK-PE								
		2 1/2 FIP	341630A250TL-PE								
		3 FIP	341630A300TP-PE								
		30	750	32.00 - 33.20	813 - 843	8	200	B	3/4 CC	341630B075TB-PE	\$ 1,266.10
									3/4 NPT	341630B075TC-PE	
1 CC	341630B100TD-PE										
1 NPT	341630B100TE-PE										
1 1/4 CC	341630B125TF-PE								\$ 1,302.10		
1 1/4 NPT	341630B125TG-PE										
1 1/2 CC	341630B150TH-PE										
1 1/2 NPT	341630B150TI-PE										
2 CC	341630B200TJ-PE										
2 NPT	341630B200TK-PE										
2 1/2 FIP	341630B250TL-PE										
3 FIP	341630B300TP-PE										
36	900			36.00 - 37.20	914 - 945	8	200	A	3/4 CC	341636A075TB-PE	\$ 1,407.00
									3/4 NPT	341636A075TC-PE	
		1 CC	341636A100TD-PE								
		1 NPT	341636A100TE-PE								
		1 1/4 CC	341636A125TF-PE						\$ 1,446.70		
		1 1/4 NPT	341636A125TG-PE								
		1 1/2 CC	341636A150TH-PE								
		1 1/2 NPT	341636A150TI-PE								
		2 CC	341636A200TJ-PE								
		2 NPT	341636A200TK-PE								
		2 1/2 FIP	341636A250TL-PE								
		3 FIP	341636A300TP-PE								

3416AS-PE ALL STAINLESS SADDLE LARGER DIAMETERS

Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price	
Inches	MM	Inches	MM	Inches	MM					
36	900	37.90 - 39.10	963 - 993	8	200	B	3/4 CC	341636B075TB-PE	\$ 1,407.00	
							3/4 NPT	341636B075TC-PE		
							1 CC	341636B100TD-PE		
							1 NPT	341636B100TE-PE		
							1 1/4 CC	341636B125TF-PE	\$ 1,446.70	
							1 1/4 NPT	341636B125TG-PE		
		1 1/2 CC	341636B150TH-PE							
		1 1/2 NPT	341636B150TI-PE							
		2 CC	341636B200TJ-PE							
		2 NPT	341636B200TK-PE							
		39.10 - 40.30	993 - 1024	8	200	C	2 1/2 FIP	341636B250TL-PE	\$ 1,446.70	
							3 FIP	341636B300TP-PE		
							3/4 CC	341636C075TB-PE		\$ 1,407.00
							3/4 NPT	341636C075TC-PE		
1 CC	341636C100TD-PE									
1 NPT	341636C100TE-PE									
1 1/4 CC	341636C125TF-PE						\$ 1,446.70			
1 1/4 NPT	341636C125TG-PE									
1 1/2 CC	341636C150TH-PE									
1 1/2 NPT	341636C150TI-PE									
2 CC	341636C200TJ-PE									
2 NPT	341636C200TK-PE									
42	1100	42.00 - 43.20	1067 - 1097	8	200	A	2 1/2 FIP	341636C250TL-PE	\$ 1,687.30	
							3 FIP	341636C300TP-PE		
							3/4 CC	341642A075TB-PE		\$ 1,639.90
							3/4 NPT	341642A075TC-PE		
							1 CC	341642A100TD-PE		
							1 NPT	341642A100TE-PE		
							1 1/4 CC	341642A125TF-PE		\$ 1,687.30
							1 1/4 NPT	341642A125TG-PE		
							1 1/2 CC	341642A150TH-PE		
							1 1/2 NPT	341642A150TI-PE		
							2 CC	341642A200TJ-PE		
							2 NPT	341642A200TK-PE		
2 1/2 FIP	341642A250TL-PE	\$ 1,687.30								
3 FIP	341642A300TP-PE									

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Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price	
Inches	MM	Inches	MM	Inches	MM					
42	1100	44.20 - 45.40	1123 - 1153	8	200	B	3/4 CC	341642B075TB-PE	\$ 1,639.90	
							3/4 NPT	341642B075TC-PE		
							1 CC	341642B100TD-PE		
							1 NPT	341642B100TE-PE		
							1 1/4 CC	341642B125TF-PE		
							1 1/4 NPT	341642B125TG-PE		
		45.50 - 46.70	1156 - 1186	8	200	C	1 1/2 CC	341642B150TH-PE	\$ 1,687.30	
							1 1/2 NPT	341642B150TI-PE		
							2 CC	341642B200TJ-PE		
							2 NPT	341642B200TK-PE		
							2 1/2 FIP	341642B250TL-PE		
							3 FIP	341642B300TP-PE		
							3/4 CC	341642C075TB-PE		\$ 1,639.90
							3/4 NPT	341642C075TC-PE		
1 CC	341642C100TD-PE									
1 NPT	341642C100TE-PE									
1 1/4 CC	341642C125TF-PE									
1 1/4 NPT	341642C125TG-PE									
48	1200	48.00 - 49.20	1219 - 1250	8	200	A	1 1/2 CC	341642C150TH-PE	\$ 1,687.30	
							1 1/2 NPT	341642C150TI-PE		
							2 CC	341642C200TJ-PE		
							2 NPT	341642C200TK-PE		
							2 1/2 FIP	341642C250TL-PE		
							3 FIP	341642C300TP-PE		
							3/4 CC	341648A075TB-PE		\$ 1,874.10
							3/4 NPT	341648A075TC-PE		
1 CC	341648A100TD-PE									
1 NPT	341648A100TE-PE									
48	1200	48.00 - 49.20	1219 - 1250	8	200	A	1 1/4 CC	341648A125TF-PE	\$ 1,929.10	
							1 1/4 NPT	341648A125TG-PE		
							1 1/2 CC	341648A150TH-PE		
							1 1/2 NPT	341648A150TI-PE		
							2 CC	341648A200TJ-PE		
							2 NPT	341648A200TK-PE		
2 1/2 FIP	341648A250TL-PE	\$ 1,929.10								
3 FIP	341648A300TP-PE									

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Nominal Pipe Size		Pipe OD Range		Width			outlet size	Catalog Number	List Price
Inches	MM	Inches	MM	Inches	MM				
48	1200	50.50 - 51.70	1283 - 1313	8	200	B	3/4 CC	341648B075TB-PE	\$ 1,874.10
							3/4 NPT	341648B075TC-PE	
							1 CC	341648B100TD-PE	
							1 NPT	341648B100TE-PE	
							1 1/4 CC	341648B125TF-PE	\$ 1,929.10
							1 1/4 NPT	341648B125TG-PE	
							1 1/2 CC	341648B150TH-PE	
							1 1/2 NPT	341648B150TI-PE	
							2 CC	341648B200TJ-PE	
							2 NPT	341648B200TK-PE	
							2 1/2 FIP	341648B250TL-PE	
							3 FIP	341648B300TP-PE	
		51.80 - 53.00	1316 - 1346	8	200	C	3/4 CC	341648C075TB-PE	\$ 2,023.10
							3/4 NPT	341648C075TC-PE	
							1 CC	341648C100TD-PE	
							1 NPT	341648C100TE-PE	
							1 1/4 CC	341648C125TF-PE	\$ 2,081.50
							1 1/4 NPT	341648C125TG-PE	
							1 1/2 CC	341648C150TH-PE	
							1 1/2 NPT	341648C150TI-PE	
							2 CC	341648C200TJ-PE	
							2 NPT	341648C200TK-PE	
							2 1/2 FIP	341648C250TL-PE	
							3 FIP	341648C300TP-PE	
53.10 - 53.30	1349 - 1379	8	200	D	3/4 CC	341648D075TB-PE	\$ 2,023.10		
					3/4 NPT	341648D075TC-PE			
					1 CC	341648D100TD-PE			
					1 NPT	341648D100TE-PE			
					1 1/4 CC	341648D125TF-PE	\$ 2,081.50		
					1 1/4 NPT	341648D125TG-PE			
					1 1/2 CC	341648D150TH-PE			
					1 1/2 NPT	341648D150TI-PE			
					2 CC	341648D200TJ-PE			
					2 NPT	341648D200TK-PE			
					2 1/2 FIP	341648D250TL-PE			
					3 FIP	341648D300TP-PE			

"HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 16" C900 O.D. 17.40 with 3/4 CC outlet. Order 3416AS-PE - 16A x 3/4 CC. **Part Number:** 341616A075TB-PE .

NOTE: Other ranges, tap sizes available upon request.