

Material	Temp. Range		
Low Density Polyethylene (LDPE)	-70°C	to	80°C
High Density Polyethylene (HDPE)	-70°C	to	80°C



Product Description

Hi-Tech Seals offers an extensive range of protector products. Our protectors offer excellent protection against damage, dirt, and moisture that can occur during storage or shipping. They are made from low-density or high-density materials as polyethylene. Our specialty low density polyethylene compound contains volatile corrosion inhibitors (VCI), which provides improved corrosion resistance.



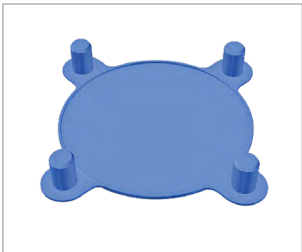
Tapered Caps & Plugs (CP)



Hydraulic Fitting Plugs (HF)



Bolted Flange Protectors (BFP)



Flange Covers (FC)



Valve Flange Protectors (FP)



Thread Casing Protectors (TCP)



Vinyl Caps (HP)



Square-Head Plugs (TPN)



Threaded Caps (TC)



ORB Threaded Plug (TF)



Wide Flanged Tapered Caps and Plugs (WF)



Long Vinyl Caps (VCP)



Tool Joint Protectors (TJP)



Sucker Rod Caps (SR) & Plugs (FPS)



EUE / NUE



Tear Tab Caps (TT)



Tube Caps (TUB)



Open End Protector (OE)



Closed End Protector (CE)



Split Flange Caps (SF)



Pressure Plugs (TP)



Locking Cap (SW)



Wedge Cap (KSW)



Telescopic Cap (TSW)



Bolt Cap (BM)



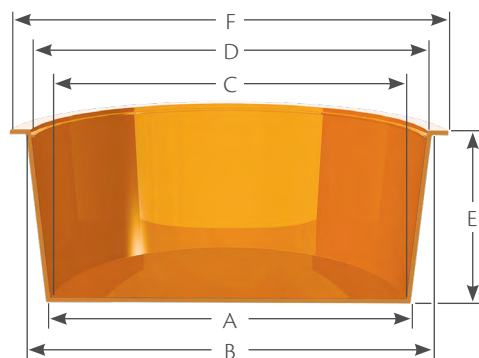
Bolt Thread Cap (B)



Sleeve Mesh (SM)

Additional protectors available upon request.

Caps & Plugs



Material: LDPE

Protectors

Part Number	Dimensions					
	A	B	C	D	E	F
CP 0	0.174	0.241	0.110	0.177	0.410	0.380
CP 1	0.239	0.303	0.175	0.239	0.380	0.470
CP 1X	0.267	0.335	0.205	0.273	0.410	0.470
CP 2	0.299	0.367	0.235	0.303	0.410	0.500
CP 2X	0.331	0.397	0.267	0.333	0.380	0.560
CP 3	0.362	0.428	0.298	0.364	0.410	0.560
CP 3X	0.392	0.459	0.328	0.395	0.410	0.590
CP 4	0.422	0.486	0.358	0.422	0.410	0.620
CP 4X	0.448	0.512	0.384	0.448	0.410	0.660
CP 5	0.472	0.548	0.408	0.484	0.470	0.690
CP 5X	0.500	0.568	0.436	0.504	0.470	0.720
CP 6	0.533	0.608	0.469	0.544	0.470	0.750
CP 6X	0.551	0.633	0.487	0.569	0.500	0.780
CP 241S	0.552	0.612	0.490	0.550	0.340	0.750
CP 7	0.580	0.668	0.518	0.606	0.530	0.840
CP 7X	0.610	0.695	0.549	0.634	0.530	0.840
CP 8	0.642	0.729	0.578	0.665	0.500	0.880
CP 8X	0.678	0.755	0.614	0.691	0.530	0.880
CP 9	0.691	0.787	0.627	0.723	0.590	0.940
CP 9X	0.727	0.825	0.663	0.761	0.590	1.000
CP 710	0.750	0.805	0.688	0.743	0.190	0.860
CP 10	0.752	0.849	0.688	0.785	0.590	1.000
CP 11	0.803	0.912	0.739	0.848	0.660	1.060
CP 11x	0.819	0.933	0.755	0.869	0.620	1.130
CP 12	0.869	0.973	0.805	0.909	0.660	1.130
CP 12X	0.915	1.040	0.855	0.980	0.720	1.160
CP 13	0.967	1.092	0.903	1.028	0.780	1.250
CP 249W	0.975	1.104	0.918	1.047	0.750	1.440
CP 13B	0.980	1.049	0.916	0.985	0.500	1.250
CP 13X	0.997	1.144	0.933	1.080	0.780	1.310
CP 14	1.093	1.219	1.029	1.155	0.780	1.410
CP 14X	1.179	1.286	1.115	1.222	0.750	1.440
CP 15	1.226	1.354	1.162	1.290	0.750	1.500
CP 15X	1.233	1.358	1.175	1.300	0.840	1.500

Caps & Plugs



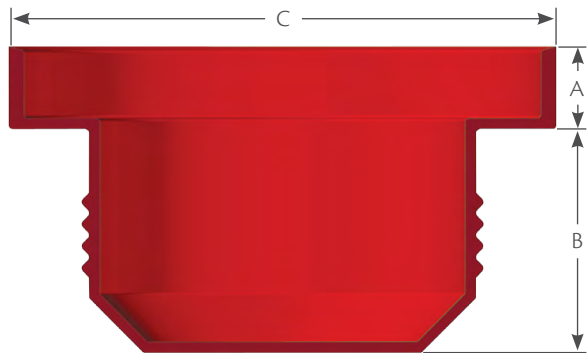
Material: LDPE

Part Number	Dimensions					
	A	B	C	D	E	F
CP 16	1.312	1.465	1.248	1.401	0.750	1.620
CP 17B	1.344	1.507	1.282	1.445	0.940	1.770
CP 17	1.451	1.601	1.387	1.537	0.750	1.750
CP 17S	1.519	1.602	1.455	1.538	0.750	1.750
CP 18	1.560	1.682	1.498	1.620	0.780	1.880
CP 18X	1.633	1.750	1.569	1.690	0.750	1.840
CP 19	1.752	1.882	1.688	1.818	0.780	2.000
CP 20	1.807	1.938	1.743	1.874	1.000	2.160
CP 210	1.847	2.000	1.783	1.936	1.030	2.130
CP 21	1.903	2.078	1.839	2.014	1.030	2.250
CP 220	1.981	2.133	1.917	2.069	1.000	2.250
CP 22S	2.017	2.147	1.953	2.083	0.750	2.310
CP 221	2.070	2.244	2.000	2.174	1.040	2.470
CP 230	2.136	2.312	2.074	2.250	1.030	2.560
CP 240	2.300	2.464	2.236	2.400	1.030	2.620
CP 33A	2.311	2.650	2.247	2.586	1.000	2.780
CP 250	2.396	2.604	2.332	2.540	1.160	2.810
CP 43A	2.457	2.750	2.395	2.688	1.000	2.880
CP 33A1	2.482	2.645	2.418	2.581	0.660	2.780
CP 44	2.641	2.790	2.579	2.728	0.784	2.970
CP 45A	2.720	2.990	2.656	2.926	1.000	3.130
CP 500	2.850	2.982	2.786	2.918	0.750	3.250
CP 55A	2.980	3.244	2.910	3.174	1.000	3.380
CP 53	2.996	3.159	2.916	3.079	0.470	3.410
CP 96A	3.270	3.562	3.200	3.492	1.120	3.690
CP 501	3.320	3.452	3.250	3.382	0.750	3.630
CP 1050	3.466	3.602	3.406	3.542	0.750	3.880
CP 341	3.552	3.732	3.478	3.658	1.000	4.000
CP 1052	3.676	3.802	3.596	3.722	0.750	4.000
CP 1063	3.928	4.074	3.848	3.994	0.750	4.380
CP 1070	4.214	4.459	4.134	4.379	1.000	4.940
CP 1072	4.368	4.622	4.288	4.542	1.000	5.000
CP 407	4.980	5.100	4.900	5.020	0.690	5.440
CP 344	5.326	5.494	5.217	5.385	0.880	5.880
CP 345	5.470	5.620	5.390	5.540	1.000	6.130
CP 351	6.008	6.184	5.918	6.094	1.000	6.630
CP 352	6.398	6.564	6.329	6.500	0.880	6.940
CP 365	6.668	6.774	6.562	6.668	1.500	7.190
CP 367	7.338	7.656	7.253	7.575	1.000	7.940
CP 368	7.658	7.846	7.574	7.762	1.000	8.120
CP 369	7.968	8.146	7.877	8.120	1.000	8.380

Hydraulic Fitting Plugs



Material: HDPE or LDPE

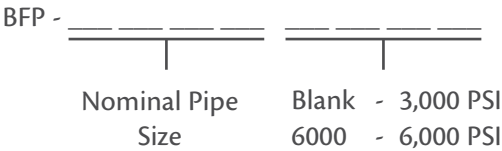
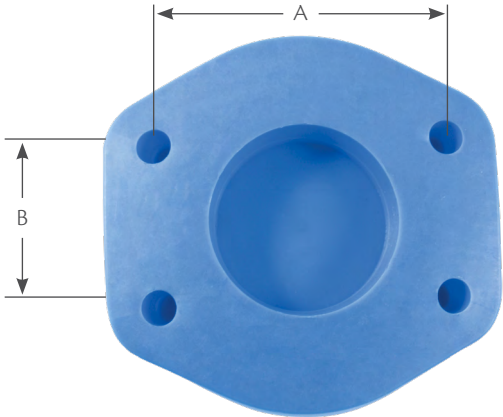


Part Number	Thread Size	Suited For		Dimensions		
		Tubing Size	SAE/JIC Fitting	A	B	C
HF 4	3/8 - 24	3/16	3	0.180	0.460	0.560
HF 6	7/16 - 20	1/4	4	0.220	0.500	0.720
HF 8	1/2 - 20	5/16	5	0.250	0.530	0.810
HF 10	9/16 - 18	3/8	6	0.280	0.530	0.880
HF 11	5/8 - 18	3/8	-	0.250	0.590	0.940
HF 12	3/4 - 16	1/2	8	0.280	0.750	1.060
HF 14	7/8 - 14	5/8	10	0.280	0.840	1.250
HF 16	1 1/16 - 12	3/4	12	0.250	0.860	1.410
HF 17	1 1/16 - 14	3/4	-	0.250	0.860	1.410
HF 18	1 3/16 - 12	7/8	-	0.250	0.930	1.500
HF 20	1 5/16 - 12	1	16	0.250	0.910	1.750
HF 22	1 1/2 - 12	-	-	0.310	0.930	1.810
HF 24	1 5/8 - 12	1 - 1/4	-	0.340	0.940	2.220
HF 26	1 3/4 - 12	-	-	0.340	0.970	2.310
HF 28	1 7/8 - 12	1 - 1/2	-	0.380	1.060	2.470
HF 30	2 1/4 - 12	1 - 3/4	-	0.380	1.310	2.750
HF 32	2 1/2 - 12	2	-	0.380	1.310	3.090

Bolted Flange Protectors



Material: LDPE
Bolted flange protectors are sized for SAE code 61 3,000 PSI.



For 3,000 PSI

Part Number	Nominal Pipe Size	A	B
BFP 0500	1/2	1.500	0.688
BFP 0750	3/4	1.875	0.875
BFP 1000	1	2.062	1.031
BFP 1250	1 - 1/4	2.312	1.188
BFP 1500	1 - 1/2	2.750	1.406
BFP 2000	2	3.062	1.688
BFP 2500	2 - 1/2	3.500	2.000

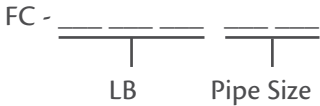


Material: LDPE
Bolted flange protectors are sized for SAE code 62 6,000 PSI.

For 6,000 PSI

Part Number	Nominal Pipe Size	A	B
BFP 07506000	3/4	2.000	0.937
BFP 10006000	1	2.250	1.093
BFP 12506000	1 - 1/4	2.625	1.250
BFP 15006000	1 - 1/2	3.125	1.437
BFP 20006000	2	3.812	1.750

Flange Covers



Pressure represents ASA standard. For additional sizes and API pressure ratings, please contact a Hi-Tech Seals representative.

Part Number	LB	Nominal Pipe Size
FC 1501	150	1"
FC 15015	150	1 - 1/2"
FC 1502	150	2"
FC 1503	150	3"
FC 1504	150	4"
FC 1506	150	6"
FC 1508	150	8"
FC 15010	150	10"
FC 15012	150	12"

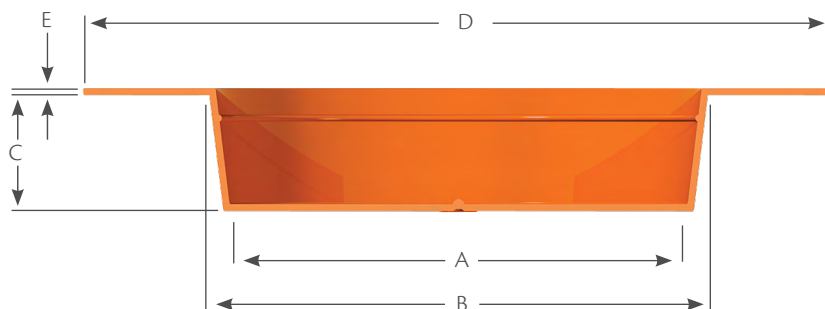
Part Number	LB	Nominal Pipe Size
FC 3001	300	1"
FC 30015	300	1 - 1/2"
FC 3002	300	2"
FC 3003	300	3"
FC 3004	300	4"
FC 3006	300	6"
FC 30010	300	10"
FC 30012	300	12"



Part Number	LB	Nominal Pipe Size
FC 3008	300	8"
FC 6002	600	2"
FC 6004	600	4"
FC 6006	600	6"
FC 6008	600	8"
FC 60010	600	10"

Part Number	LB	Nominal Pipe Size
FC 60012	600	12"
FC 9003	900	3"
FC 9004	900	4"
FC 9006	900	6"
FC 15002	1500	2"
FC 15003	1500	3"

Valve Flange Protectors



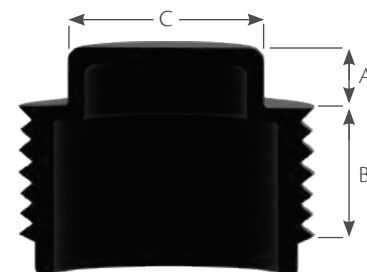
Part Number	Nominal Pipe Size	Dimensions				
		A	B	C	D	E
FP 109	1/2	0.540	0.585	0.500	1.440	0.0250
FP 110	3/4	0.720	0.750	0.500	1.688	0.0030
FP 111	1	0.940	0.970	0.625	2.000	0.0030
FP 112	1 - 1/4	1.360	1.400	0.625	2.560	0.0040
FP 113	1 - 1/2	1.600	1.640	0.750	2.875	0.0040
FP 114	2	2.040	2.100	0.750	3.625	0.0050
FP 115	2 - 1/2	2.440	2.500	0.750	4.125	0.0050
FP 1151	2 - 1/2	2.440	2.500	0.750	5.125	0.0050
FP 116	3	3.014	3.150	0.730	6.050	0.0050
FP 117	3 - 1/2	3.510	3.635	0.750	5.590	0.0060
FP 118	4	4.000	4.140	0.980	6.310	0.0060
FP 119	5	5.020	5.080	1.000	7.312	0.0060
FP 120	6	6.040	6.100	1.000	8.500	0.0060

Square-Head Plugs

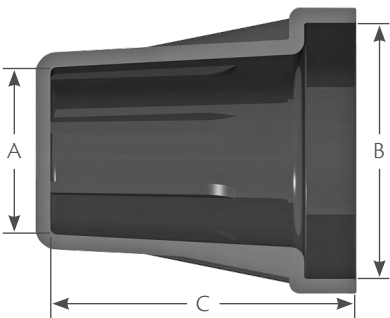


Material: HDPE

Part Number	Nominal Pipe Size	Dimensions			
		A	B	C	D
TPN1	1/8	0.25	0.29	0.28	-
TPN3	1/4	0.25	0.35	0.38	-
TPN5	3/8	0.25	0.42	0.44	-
TPN7	1/2	0.25	0.47	0.56	-
TPN9	3/4	0.25	0.52	0.62	-
TPN9F	3/4	0.25	0.52	0.63	1.25
TPN11	1	0.25	0.59	0.81	-
TPN13	1-1/4	0.38	0.83	1	-
TPN15	1-1/2	0.38	0.83	1.25	-
TPN24	24 mm				



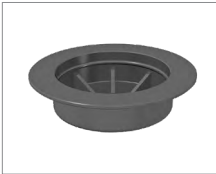
Sucker Rod Caps



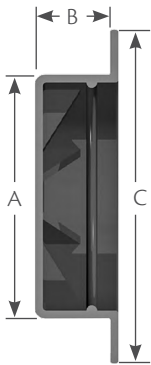
Part Number	Shaft Size	Dimensions		
		A	B	C
SR 5	5/8	0.935	1.240	1.680
SR 6	3/4	1.062	1.500	1.940
SR 7	7/8	1.188	1.630	2.160
SR 8	1	1.375	2.000	2.470
SR 9	1 - 1/8	1.563	2.250	2.750

Sucker rod caps are also available in push style.

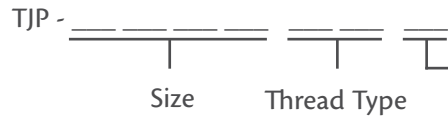
Sucker Rod Plugs



Part Number	Coupling Size	Dimensions		
		A	B	C
FPS 5	5/8	0.975	0.380	1.380
FPS 6	3/4	1.100	0.380	1.500
FPS 7	7/8	1.225	0.380	1.690
FPS 8	1	1.415	0.380	2.000



Tool Joint Protectors

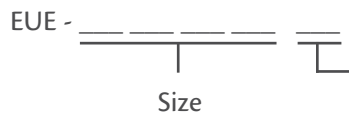


P - Pin Protector (Internal threads)
B - Box Protector (External threads)

Part Number	Size	Thread Type	Type
TJP 2375IFP	2 - 3/8	IF	PIN
TJP 2375IFB	2 - 3/8	IF	BOX
TJP 2375MWJP	2 - 3/8	Mayhew JR	PIN
TJP 2375MWJB	2 - 3/8	Mayhew JR	BOX
TJP 2375PACP	2 - 3/8	PAC	PIN
TJP 2375PACB	2 - 3/8	PAC	BOX
TJP 2375REGP	2 - 3/8	REG	PIN
TJP 2375REGB	2 - 3/8	REG	BOX
TJP 2875H90P	2 - 7/8	H90	PIN
TJP 2875H90B	2 - 7/8	H90	BOX
TJP 2875IFP	2 - 7/8	IF	PIN
TJP 2875IFB	2 - 7/8	IF	BOX
TJP 2875REGP	2 - 7/8	REG	PIN
TJP 2875REGB	2 - 7/8	REG	BOX
TJP 2875PACP	2 - 7/8	PAC	PIN
TJP 2875PACB	2 - 7/8	PAC	BOX
TJP 3500REGP	3 - 1/2	REG	PIN
TJP 3500REGB	3 - 1/2	REG	BOX
TJP 3500IFP	3 - 1/2	IF	PIN
TJP 3500IFB	3 - 1/2	IF	BOX
TJP 4000H90P	4	H90	PIN
TJP 4000H90B	4	H90	BOX

Part Number	Size	Thread Type	Type
TJP 4500REGP	4 - 1/2	REG	PIN
TJP 4500REGB	4 - 1/2	REG	BOX
TJP 4500H90P	4 - 1/2	H90	PIN
TJP 4500H90B	4 - 1/2	H90	BOX
TJP 5000H90P	5	H90	PIN
TJP 5000H90B	5	H90	BOX
TJP 5500REGP	5 - 1/2	REG	PIN
TJP 5500REGB	5 - 1/2	REG	BOX
TJP 5500IFP	5 - 1/2	IF	PIN
TJP 5500IFB	5 - 1/2	IF	BOX
TJP 5500H90P	5 - 1/2	H90	PIN
TJP 5500H90B	5 - 1/2	H90	BOX
TJP 6625IFP	6 - 5/8	IF	PIN
TJP 6625IFB	6 - 5/8	IF	BOX
TJP 6625H90P	6 - 5/8	H90	PIN
TJP 6625H90B	6 - 5/8	H90	BOX
TJP 6625REGP	6 - 5/8	REG	PIN
TJP 6625REGB	6 - 5/8	REG	BOX
TJP 7625REGP	7 - 5/8	REG	PIN
TJP 7625REGB	7 - 5/8	REG	BOX
TJP 7625H90P	7 - 5/8	H90	PIN
TJP 7625H90B	7 - 5/8	H90	BOX

EUE Style

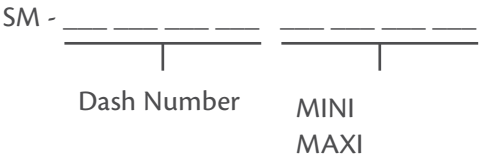


P - Pin Protector (Internal threads)
B - Box Protector (External threads)



Part Number	Size	Type
EUE 1500B	1 - 1/2	BOX
EUE 1500P	1 - 1/2	PIN
EUE 2375B	2 - 3/8	BOX
EUE 2375P	2 - 3/8	PIN
EUE 2875B	2 - 7/8	BOX
EUE 2875P	2 - 7/8	PIN

Part Number	Size	Type
EUE 3500B	3 - 1/2	BOX
EUE 3500P	3 - 1/2	PIN
EUE 4000B	4	BOX
EUE 4000P	4	PIN
EUE 4500B	4 - 1/2	BOX
EUE 4500P	4 - 1/2	PIN



Protectors

Part Number	ID Fits	Colour	Feet/Unit
SM 014MINI	1/4 to 1/2	Yellow	650
SM 014MAXI			3000
SM 05MINI	1/2 to 1	Blue	550
SM 05MAXI			2750
SM 10MINI	1 to 1 - 1/2	Red	340
SM 10MAXI			1700
SM 1000MINI	1 to 2	Yellow	500
SM 1000MAXI			2500
SM 15MINI	1 - 1/2 to 2	Black	180
SM 15MAXI			900
SM 20MINI	2 to 2 - 1/2	White	160
SM 20MAXI			800
SM 2000MINI	2 to 4	Red	300
SM 2000MAXI			1500
SM 25MINI	2 - 1/2 to 3	Yellow	120
SM 25MAXI			600
SM 30MINI	3 to 4	Green	90
SM 30MAXI			450
SM 40MINI	4 to 5	Orange	80
SM 40MAXI			400
SM 50MINI	5	Brown	50
SM 50MAXI			400
SM 60MINI	6	Blue	50
SM 70MINI	7	Clear	40

Composed of nylon weaved into a strong diamond pattern.