



SOLUTIONS FOR PIPE & FLANGE

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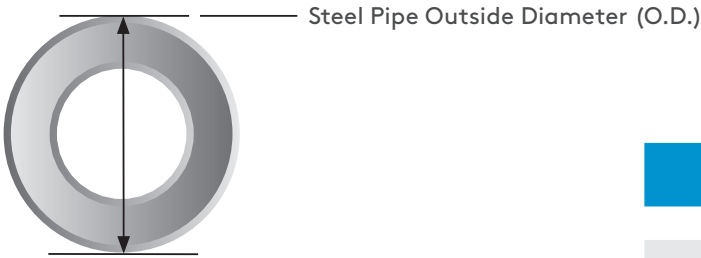
ALLIANCE



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HOW TO MEASURE A STEEL PIPE & PICK A PIPE CAP



1. Measure the pipe O.D. as shown above.
2. Refer to the chart to the right and locate the pipe O.D.
3. The 2nd column to is the Nominal Pipe Size of the pipe.
4. Refer to any pipe cap series on pages 3-5.
5. Find your nominal pipe size on the series table.
6. That is the correct size cap for your pipe.

Pipe O.D. (Measurement)	Nominal Pipe Size (In)
0.405 (10.3)	1/8
0.540 (13.7)	1/4
0.675 (17.1)	3/8
0.840 (21.3)	1/2
1.050 (26.7)	3/4
1.315 (33.4)	1
1.660 (42.2)	1-1/4
1.900 (48.3)	1-1/2
2.375 (60.3)	2
2.875 (73.0)	2-1/2
3.500 (88.9)	3
4.000 (101.6)	3-1/2
4.500 (114.3)	4
5.563 (141.3)	5
6.625 (168.3)	6
8.625 (219.1)	8
10.750 (273.0)	10
12.750 (323.8)	12

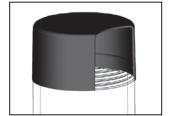
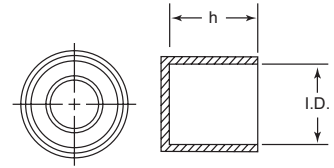
Item No.	Nominal Pipe Size (In)	Actual I.D. In	Height (h) In	Color	Pack Qty.
RRC1/8A	1/8	0.385	0.485	Yellow	1
RRC1/4A	1/4	0.516	0.490	Red	1
RRC3/8A	3/8	0.660	0.538	Yellow	1
RRC1/2A	1/2	0.840	0.717	Black	1
RRC3/4A	3/4	1.043	0.750	Black	1
RRC1A	1	1.225	0.875	Blue	1
RRC1-1/4A	1-1/4	1.660	0.938	Blue	1
RRC1-1/2A	1-1/2	1.910	1.000	Red	1

**RRC Series****Closed End or Vented Pipe Caps****Specifications:**

- Material: Polyethylene
- Color: Refer to Chart

Features:

- Protects threaded or non-threaded pipe ends
- Sized and designed for positive-gripping power over the outside diameter of the pipe
- Eliminates foreign materials from entering the pipe



Item No.	Nominal Pipe Size (In)	I.D.		Color	Pack Qty.	Bulk Pack Qty.
		In	In			
RRC1/8A	1/8	0.385	0.485	Yellow	1	5500
RRC1/4A	1/4	0.516	0.490	Red	1	13000
RRC3/8A	3/8	0.660	0.538	Yellow	1	9500
RRC1/2A	1/2	0.840	0.717	Black	1	4000
RRC3/4A	3/4	1.045	0.750	Red	1	2500
RRC1A	1	1.290	0.877	Blue	1	1500
RRC1-1/4A	1-1/4	1.660	0.920	Red	1	1000
RRC1-1/2A	1-1/2	1.910	0.925	Black	1	1000
RRC2A	2	2.378	1.080	Blue	1	1000
RRC2-1/2A	2-1/2	2.860	1.580	Black	1	500
RRC3A	3	3.470	1.750	Blue	1	350
RRC3-1/2A	3-1/2	4.000	1.750	Black	1	280
RRC4A	4	4.500	1.870	Blue	1	208
RRC5A	5	5.630	2.150	Blue	1	120
RRC6A	6	6.640	1.960	Black	1	80
RRC8A	8	8.670	2.320	Black	1	50
RRC10A	10	10.680	2.410	Black	1	25
RRC12A	12	12.600	2.620	Black	1	18
RRC14E	14	14.000	3.000	Black	1	15
RRC16E	16	16.000	3.125	Black	1	15
RRC18E	18	18.000	3.375	Black	1	10
RRC20A	20	20.000	2.955	Black	1	15
RRC22A	22	22.000	2.985	Black	1	10
RRC24A	24	24.000	2.995	Black	1	8
RRC26A	26	26.000	4.500	Black	1	8
RRC28A	28	28.000	4.724	Black	1	12
RRC30A	30	30.000	4.625	Black	1	5
RRC110286C	32	32.000	4.724	Black	1	18
RRC36A	36	36.000	3.040	Black	1	16
RRC42A	42	42.000	5.250	Black	1	12
RRC48A	48	48.000	5.250	Black	1	12

Vented Pipe Caps

The vent hole option prevents pressure build up inside the pipe that may otherwise force off the cap.

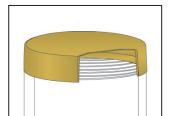
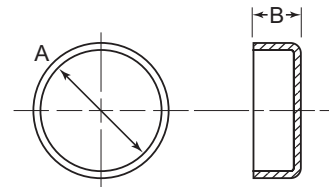
Item No.	Nominal Pipe Size (In)	Actual I.D. In	Height (h) In	Color	Pack Qty.	Bulk Pack Qty.
RRC1-1/2E	1-1/2	1.910	0.925	Orange	1	2000
RRC2F	2	2.378	1.080	Orange	1	1000
RRC2-1/2D	2-1/2	2.860	1.580	Orange	1	500
RRC3F	3	3.470	1.750	Orange	1	350
RRC3-1/2E	3-1/2	4.000	1.750	Orange	1	280
RRC4E	4	4.500	1.870	Orange	1	192
RRC5F	5	5.630	2.150	Orange	1	120
RRC6I	6	6.640	1.960	Orange	1	80
RRC8B	8	8.670	2.320	Orange	1	50
RRC10D	10	10.580	2.410	Orange	1	25
RRC12B	12	12.600	2.620	Orange	1	18

FPC Series**Cracking & Splitting Resistant Pipe Caps****Specifications:**

- Material: Flexible Polyethylene
- Color: Yellow

Features:

- Protects threaded or non-threaded pipe ends
- Resistant to cracking and splitting
- Ideal for withstanding temperatures of -40°F to 150°F (-40°C to 66°C) and will not crack or split under normal use
- Outstanding toughness and puncture resistance
- Good flexibility



Item No.	Nominal Pipe Size (In)	A	B	Pack Qty.	Bulk Pack Qty.
		In	In		
FPC34137A	2	2.374	2.362	1	300
FPC34140A	2-1/2	2.717	1.417	1	100
FPC34151A	3	3.386	1.693	1	100
FPC32709A	3-1/2	4.000	3.937	1	100
FPC34169A	4	4.500	1.969	1	200
FPC34179A	6	6.626	1.969	1	100
FPC31733A	8	8.625	2.165	1	80
FPC31735A	10	10.748	2.559	1	28
FPC31694A	12	12.748	2.953	1	32
FPC31685A	14	14.000	3.150	1	26
FPC31664A	16	16.000	3.346	1	18
FPC34211A	18	17.913	3.150	1	16

Item No.	Nominal Pipe Size (In)	A In	B In	Pack Qty.	Bulk Pack Qty.
FPC31689A	20	20.000	4.134	1	12
FPC31739A	24	24.000	4.921	1	10
FPC31718A	28	28.000	5.709	1	24
FPC31696A	30	30.000	6.102	1	22
FPC34240A	34	34.000	6.693	1	20
FPC31701A	36	36.000	6.889	1	16
FPC34244A	38	38.012	7.087	1	16
FPC31727A	40	40.000	7.087	1	16
FPC34248A	44	44.000	7.283	1	5
FPC34252A	56	56.000	8.465	1	5
FPC34254A	60	60.000	8.661	1	5

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PIPE CAPS

CEX Series

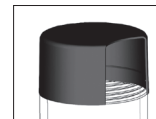
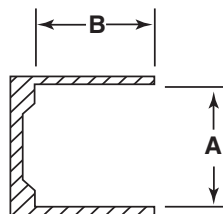
Lightweight Pipe Caps

Specifications:

- Material: Polyethylene
- Color: Refer to Chart

Features:

- Lightweight range with internal rings for positive-gripping power
- Protects threaded or non-threaded pipe ends
- Eliminates foreign materials from entering the pipe



Item No.	Nominal Pipe Size (In)	A In	B In	Color	Pack Qty.	Bulk Pack Qty.
CEX1/4B	1/4	0.540	0.845	Orange	1	4000
CEX3/8B	3/8	0.675	0.845	Orange	1	2500
CEX1/2B	1/2	0.840	0.845	Black	1	1800
CEX3/4B	3/4	1.050	0.845	Red	1	1300
CEX1C	1	1.315	0.845	Blue	1	1600
CEX1-1/4B	1-1/4	1.660	1.465	Red	1	650

Item No.	Nominal Pipe Size (In)	A In	B In	Color	Pack Qty.	Bulk Pack Qty.
CEX1-1/2C	1-1/2	1.900	1.465	Black	1	500
CEX2B	2	2.375	1.465	Blue	1	300
CEX2-1/2B	2-1/2	2.875	1.465	Black	1	200
CEX3B	3	3.500	1.465	Blue	1	150
CEX3-1/2B	3-1/2	4.000	1.695	Black	1	100
CEX4B	4	4.500	1.695	Blue	1	80

NPS Series

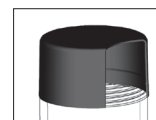
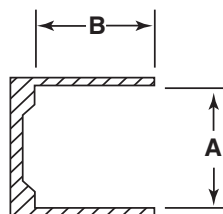
Heavy Duty Base Pipe Caps

Specifications:

- Material: Polyethylene
- Color: Black

Features:

- Has a thicker heavy-duty base for added protection over the outside diameter of the pipe
- Protects threaded or non-threaded pipe ends
- Eliminates foreign materials from entering the pipe



Item No.	Nominal Pipe Size (In)	A In	B In	Pack Qty.	Bulk Pack Qty.
NPS1/4B	1/4	0.540	0.813	1	4000
NPS3/8B	3/8	0.675	0.813	1	2500
NPS1/2B	1/2	0.840	0.813	1	1800
NPS3/4B	3/4	1.050	0.813	1	1200
NPS1B	1	1.315	0.813	1	1600
NPS1-1/4B	1-1/4	1.660	1.406	1	550

Item No.	Nominal Pipe Size (In)	A In	B In	Pack Qty.	Bulk Pack Qty.
NPS1-1/2B	1-1/2	1.900	1.406	1	450
NPS2B	2	2.375	1.375	1	300
NPS2-1/2B	2-1/2	2.875	1.375	1	200
NPS3B	3	3.500	1.344	1	150
NPS3-1/2B	3-1/2	4.000	1.594	1	100
NPS4B	4	4.500	1.594	1	80

RRO Series

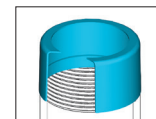
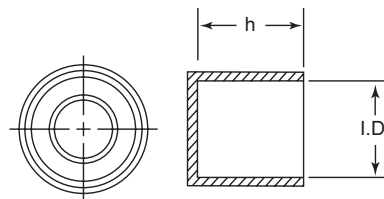
Pipe & Conduit Open-End Pipe Caps

Specifications:

- Material: Polyethylene
- Color: Refer to Chart

Features:

- Protects external threads on pipe ends, rigid metal conduit ends (RMC) or intermediate metal conduit ends (IMC)
- Sized and designed for positive-gripping power over the threads on the pipe.



Color Coded for Pipe, EMT or Rigid Metal Conduit (RMC)

Item No.	Nominal Pipe Size (In)	I.D. In	Height (h) In	Color	Pack Qty.	Bulk Pack Qty.
RRO1/2C	1/2	0.835	0.750	Black	1	5000
RRO3/4A	3/4	1.048	0.747	Red	1	8000
RRO1A	1	1.305	0.940	Blue	1	4000
RRO1-1/4A	1-1/4	1.653	0.980	Red	1	2500
RRO1-1/2A	1-1/2	1.890	1.030	Black	1	1600
RRO2A	2	2.375	1.157	Blue	1	1000
RRO2-1/2A	2-1/2	2.891	1.580	Black	1	500
RRO3A	3	3.465	1.750	Blue	1	350
RRO3-1/2A	3-1/2	4.010	1.750	Black	1	280
RRO4A	4	4.530	1.870	Blue	1	208
RRO5A	5	5.531	1.870	Blue	1	120
RRO6A	6	6.586	2.180	Blue	1	80
RRO8A	8	8.625	2.210	Black	1	50
RRO10A	10	10.850	2.410	Black	1	30

Color Coded for Intermediate Metal Conduit (IMC)

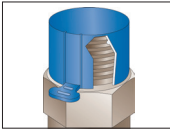
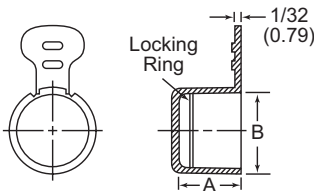
Item No.	Nominal Pipe Size (In)	I.D. In	Height (h) In	Color	Pack Qty.	Bulk Pack Qty.
RRO1/2B	1/2	0.835	0.750	Yellow	1	5000
RRO3/4C	3/4	1.048	0.747	Green	1	8000
RRO1D	1	1.305	0.940	Orange	1	4000
RRO1-1/4C	1-1/4	1.653	0.980	Green	1	2500
RRO1-1/2B	1-1/2	1.890	1.030	Yellow	1	1600
RRO2E	2	2.375	1.157	Orange	1	1000
RRO2-1/2B	2-1/2	2.891	1.580	Yellow	1	500
RRO3C	3	3.465	1.750	Orange	1	350
RRO3-1/2B	3-1/2	4.010	1.750	Yellow	1	280
RRO4C	4	4.530	1.870	Orange	1	208



Y Series
Tear Tab Caps for NPT Threads

- Specifications:
- Material: Low-Density Polyethylene
 - Color: Refer to Chart

- Features:
- Designed with a tear tab for easy removal
 - Made to protect NPT threads from damage but versatile enough to be used in numerous applications

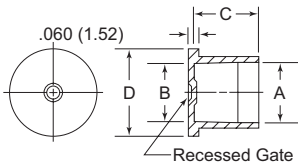


Item No.		To Cap NPT Thread	A		B		Pack Qty.	Bulk Pack Qty.
Natural	Blue		In	mm	In	mm		
Y1/8B	Y1/8A	1/8"	0.320	8.13	0.386	9.80	1	5000
Y1/4N	Y1/4A	1/4"	0.490	12.45	0.531	13.49	1	4000
Y3/8B	Y3/8A	3/8"	0.490	12.45	0.665	16.89	1	5500
Y1/2B	Y1/2A	1/2"	0.640	16.26	0.817	20.75	1	5500
Y3/4D	Y3/4A	3/4"	0.630	16.00	1.033	26.24	1	4000
Y1B	Y1A	1"	0.785	19.94	1.305	33.15	1	2000
Y1-1/4N	Y1-1/4A	1-1/4"	0.840	21.34	1.643	41.73	1	1300
Y1-1/2E	Y1-1/2A	1-1/2"	0.850	21.59	1.884	47.85	1	1000
Y2B	Y2A	2"	0.890	22.61	2.339	59.41	1	600
Y2-1/2N	—	2-1/2"	1.375	34.93	2.850	72.39	1	500
Y3N	—	3"	1.437	36.50	3.475	88.27	1	250
Y3-1/2N	—	3-1/2"	1.500	38.10	3.980	101.09	1	200
Y4N	—	4"	1.500	38.10	4.480	113.79	1	150
Y5N	—	5"	1.625	41.28	5.535	140.59	1	100
Y6N	—	6"	1.700	43.18	6.600	167.64	1	50

ECS Series
Flanged Caps for NPT Threads

- Specifications:
- Material: Low-Density Polyethylene
 - Color: Natural

- Features:
- Designed for easy assembly and removal either with automated equipment or by hand
 - Typically used to protect NPT threads with or without O-rings

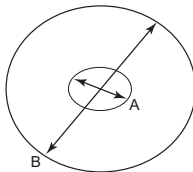


Item No.	To Cap NPT Thread	A		B		C		D		Pack Qty.	Bulk Pack Qty.
		In	mm	In	mm	In	mm	In	mm		
ECS0125A	1/8"	0.399	10.13	0.383	9.73	0.380	9.65	0.660	16.76	1	10000
ECS0250A	1/4"	0.533	13.54	0.510	12.90	0.530	13.46	0.810	20.57	1	9000
ECS0375A	3/8"	0.669	16.99	0.644	16.36	0.530	13.46	0.940	23.88	1	5000
ECS0500A	1/2"	0.833	21.16	0.800	20.32	0.720	18.29	1.090	27.69	1	3000
ECS0750A	3/4"	1.045	26.54	1.011	25.68	0.750	19.05	1.310	33.27	1	2000
ECS1000A	1"	1.310	33.27	1.267	32.18	0.930	23.62	1.560	39.62	1	1000
ECS1250A	1-1/4"	1.655	42.04	1.611	40.92	0.970	24.64	1.940	49.28	1	800
ECS1500A	1-1/2"	1.893	48.08	1.848	46.94	0.970	24.64	2.160	54.86	1	600
ECS2000A	2"	2.370	60.20	2.323	59.00	1.030	26.16	2.620	66.55	1	500

MCP Series
Stretch Fit Cover Caps

- Specifications:
- Material: Polyethylene
 - Color: Refer to Chart

- Features:
- Capable of covering a wide range of part diameters and shapes with one part
 - Protects against dirt and moisture during storage and shipping
 - Reusable



Item No.		A= Elastic Dia.		B= Flat Overall Dia.		Pack Qty.	Bulk Pack Qty.
Blue	Clear	In	mm	In	mm		
MCP050B	MCP050N	1.00	25.40	3.00	76.20	1	1000
MCP100B	MCP100N	1.22	30.99	3.78	96.01	1	1000
MCP105B	MCP105N	1.25	50.80	8.00	203.20	1	500
MCP110B	MCP110N	1.50	38.10	4.50	114.30	1	1000
MCP120B	MCP120N	2.00	50.80	5.75	146.05	1	1000
MCP125B	MCP125N	2.50	63.50	10.00	254.00	1	500
MCP130B	MCP130N	2.44	61.98	8.66	219.96	1	500
MCP140B	MCP140N	3.07	77.98	9.45	240.03	1	500
MCP145B	MCP145N	3.50	88.90	18.00	457.20	1	300
MCP150B	MCP150N	4.25	107.95	13.00	330.20	1	250
MCP155B	MCP155N	5.75	146.05	24.00	609.60	1	200
MCP160B	MCP160N	5.00	127.00	15.95	405.13	1	250
MCP165B	MCP165N	6.50	165.10	32.00	812.80	1	100



PIPE & FLANGE PROTECTION

PIPE FITTING CAPS

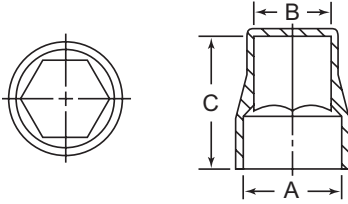
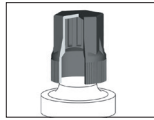
SRH Series Sucker Rod Caps

Specifications:

- Material: Polyethylene
- Color: Black

Features:

- Protects sucker-rod pin ends
- The heavy-duty part design protects during shipping or in-house processing
- The hex head design promotes easy removal in the field with an open or closed-end wrench



Item No.	Coupling Size In	A In	B In	C In	Pack Qty.	Bulk Pack Qty.
SRH5/8A	0.625	1.250	1.050	1.750	1	700
SRH3/4A	0.750	1.500	1.130	2.063	1	500
SRH7/8A	0.875	1.635	1.325	2.188	1	400
SRH1A	1.000	2.000	1.565	2.460	1	250
SRH1-1/8A	1.125	2.250	1.560	2.625	1	200

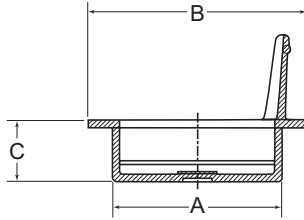
SRPP Series Sucker Rod Plug with Pull

Specifications:

- Material: Polyethylene
- Color: Black

Features:

- Protect sucker-rod coupling ends
- Protects the coupling during shipping and storage



Item No.	Coupling Size In	A In	B In	C In	Pack Qty.	Bulk Pack Qty.
SRPP5/8A	0.625	0.982	1.187	0.400	1	700
SRPP3/4A	0.750	1.110	1.437	0.400	1	500
SRPP7/8A	0.875	1.240	1.562	0.400	1	400
SRPP1A	1.000	1.430	1.937	0.400	1	250
SRPP1-1/8A	1.125	1.620	2.093	0.400	1	200

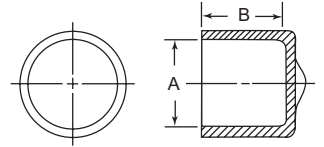
SCDK Series Pump Stator/Rotor Cap

Specifications:

- Material: PVC
- Color: Black

Features:

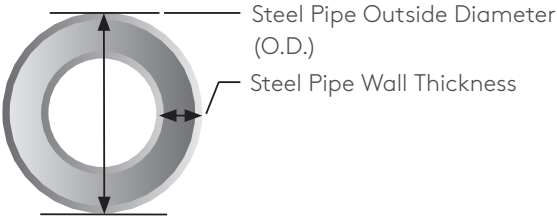
- Provides maximum protection for stators/rotors on progressive cavity pumps
- Flexible material for easy installation



Item No.	I.D. A (in)	Length B (in)	Pack Qty.	Bulk Pack Qty.
SCDK0262A	4.500	2	1	50
SCDK0259A	4.750	2	1	50
SCDK0263A	5.500	2	1	50
SCDK0264A	6.250	2	1	25

Item No.	I.D. A (in)	Length B (in)	Pack Qty.	Bulk Pack Qty.
SCDK0265A	6.500	2	1	25
SCDK0266A	6.750	2	1	25
SCDK0267A	8.000	2	1	25
DM9625-2A	9.625	2	1	20

HOW TO MEASURE A STEEL PIPE AND PICK A PIPE PLUG



1. Measure the pipe O.D. and wall thickness as shown above.
2. Refer to the chart to the right and locate the pipe O.D.
3. The 2nd column to is the Nominal Pipe Size of the pipe.
4. Refer to any pipe plug series on pages 7-8.
5. Find your nominal pipe size on the series table.
6. That is the correct size plug for your pipe.

Pipe O.D. (Measurement)	Nominal Pipe Size (In)	Wall Thickness (Measurement)	Schedule No.
0.405 (10.3)	1/8	.068 (1.73) .095 (2.41)	40 80
0.540 (13.7)	1/4	.088 (2.23) .119 (3.02)	40 80
0.675 (17.1)	3/8	.091 (2.31) .126 (3.20)	40 80
0.840 (21.3)	1/2	.109 (2.77) .147 (3.73)	40 80
1.050 (26.7)	3/4	.113 (2.87) .154 (3.91)	40 80
1.315 (33.4)	1	.133 (3.38) .179 (4.55)	40 80
1.660 (42.2)	1-1/4	.140 (3.56) .191 (4.85)	40 80
1.900 (48.3)	1-1/2	.145 (3.68) .200 (5.08)	40 80
2.375 (60.3)	2	.154 (3.91) .218 (5.54)	40 80
2.875 (73.0)	2-1/2	.203 (5.16) .276 (7.01)	40 80
3.500 (88.9)	3	.216 (5.49) .300 (7.62)	40 80
4.000 (101.6)	3-1/2	.226 (5.74) .318 (8.08)	40 80
4.500 (114.3)	4	.237 (6.02) .337 (8.56)	40 80
5.563 (141.3)	5	.258 (6.55) .375 (9.52)	40 80
6.625 (168.3)	6	.280 (7.11) .432 (10.97)	40 80
8.625 (219.10)	8	.322 (8.18) .500 (12.70)	40 80
10.750 (273.0)	10	.365 (9.27) .594 (15.09)	40 80
12.750 (323.8)	12	.406 (10.31) .688 (17.48)	40 80

Nominal Pipe Size (In)	Schedule	Item No.	Color	Pack Qty.	Bulk Pack Qty.
1/8	40	004A	Blue	1	4500
1/8	80	002A	Blue	1	5000
1/4	40	008A	Blue	1	5000
1/4	80	006A	Blue	1	5000
3/8	40	012A	Blue	1	5000

EXAMPLE

Plugs for other pipe schedules available. Contact Essentra for details.



RPP Series
Ribbed Pipe Plug

Specifications:

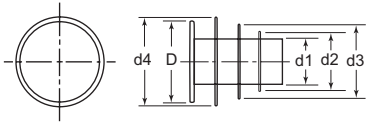
- Material: Polyethylene
- Color: Refer to Chart

Features:

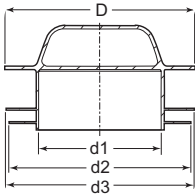
- Flexible ribs allow plug to fit multiple schedules of NPT pipe
- Straight wall on the plugs O.D. provides a secure and friction fit with the mating parts I.D.



Style 1

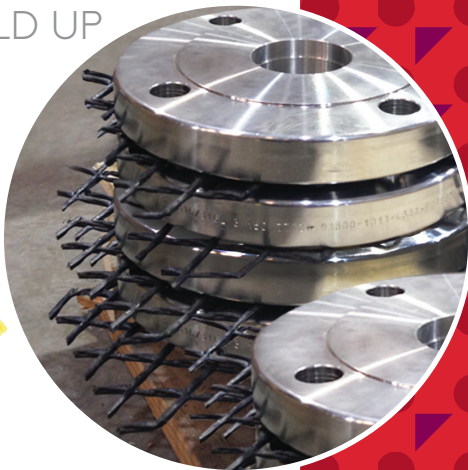
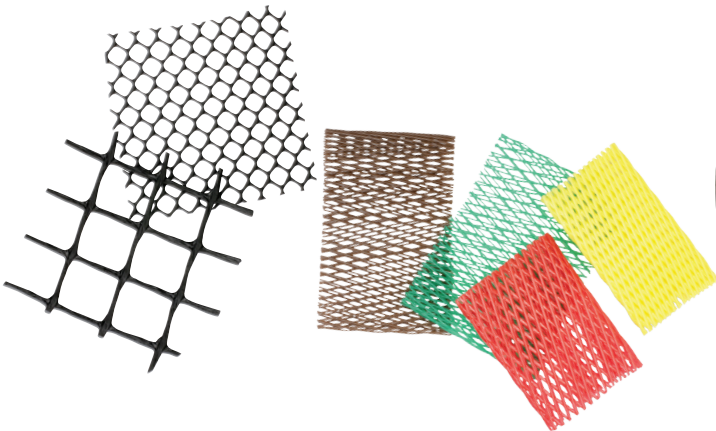


Style 2



Item No.	NPT		Style	Color	D	d1	d2	d3	Bulk Pack Qty.
	In	Schedule							
1343438	1/4	40,80	1	Blue	0.539	0.266	0.478	0.5	20000
1343439	3/8	40,80	1	Blue	0.673	0.217	0.575	0.587	15000
1343440	1/2	40,80,160	1	Blue	0.838	0.407	0.695	0.734	12000
1343441	3/4	40,80,160	1	Blue	1.051	0.461	0.905	0.939	10000
1343442	1	40,80,160	1	Blue	1.315	0.637	1.161	1.194	8000
1343443	1-1/4	40,80,160	1	Blue	1.660	0.902	1.509	1.539	4000
1343444	1-1/2	40,80,160	1	Blue	1.900	1.053	1.717	1.759	3000
1343445	2	40,80,160	1	Blue	2.374	1.254	2.216	2.163	2000
1343446	2-1/2	40,80,160	1	Blue	2.875	1.641	2.758	2.737	1300
1343447	3	40,80,160	1	Blue	3.500	2.230	3.356	3.309	800
1343448	4	40,80,120,160	1	Blue	4.500	3.137	4.292	4.281	450
RPP4A	4	40,80,120,160	2	Black	4.450	2.250	4.249	4.409	50
1343449	5	40,80,120,160	1	Blue	5.563	3.908	5.285	5.245	400
RPP5A	5	40,80,120	2	Blue	5.452	2.875	5.150	5.275	50
1343450	6	40,80,120	1	Blue	6.625	4.852	6.472	6.364	270
RPP6A	6	80,120	2	Red	6.460	3.500	5.500	6.000	20
1343451	8	40,60,80,100,120,140	1	Blue	8.625	6.625	8.396	8.268	115
1343452	10	20,30,40,60,80,100	1	Blue	10.750	8.750	10.475	10.450	90
1343453	12	30,40,60,80,100	1	Blue	12.750	10.687	12.366	12.410	42
1343454	14	20,30,60,80,100,120	1	Blue	14.000	11.500	13.602	13.566	12
1343455	16	20,30,40,60,80	1	Blue	16.000	13.750	15.655	15.547	15
1343456	18	20,30,40,60,80	1	Blue	18.000	15.250	17.464	17.443	10
1343457	20	20,30,40,60,80	1	Blue	20.000	17.000	19.593	19.522	10
1343458	24	20,30,40,60,80	1	Blue	24.000	20.867	24.606	24.606	5

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PIPE PLUGS

Schedule 40 & 80 Pipe Plugs

Specifications:

- Material: Polyethylene
- Color: Refer to Chart

Features:

- Designed to plug schedule 40 and 80 steel or plastic pipe ends



Steel Pipe

Nominal Pipe Size (In)	Schedule	Item No.	Color	Pack Qty.	Bulk Pack Qty.
1/8	40	004A	Blue	1	45000
1/8	80	002A	Blue	1	50000
1/4	40	008A	Blue	1	22500
1/4	80	006A	Blue	1	30000
3/8	40	012A	Blue	1	12500
3/8	80	009A	Blue	1	20000
1/2	40	017A	Blue	1	7500
1/2	80	014A	Blue	1	9000
3/4	40	027A	Blue	1	7000
3/4	80	022A	Blue	1	4000
1	40	039A	Red	1	2000
1	80	030A	Blue	1	4500
1-1/4	40	1055A	Blue	1	2500
1-1/4	80	044A	Blue	1	2500
1-1/2	40	055A	Blue	1	1500
1-1/2	80	051A	Blue	1	1500
2	40	062A	Blue	1	850
2	80	1075A	Blue	1	2500
2-1/2	40	073A	Blue	1	600
2-21/2	80	064A	Blue	1	1000
3	40	083A	Blue	1	750
3	80	081A	Blue	1	500
3-1/2	40	089A	Blue	1	350
3-1/2	80	086A	Blue	1	400
4	40	092A	Blue	1	250
4	80	090A	Blue	1	300
5	40	1110A	Blue	1	250
5	80	096A	Blue	1	250
6	40	FPL6A	Black	1	150
6	80	102A	Blue	1	250
8	40	FPL8A	Black	1	100
8	80	112A	Blue	1	100
10	40	FPL10A	Black	1	50
12	40	FPL12A	Black	1	30
12	80	132A	Blue	1	40

Plastic Pipe

Nominal Pipe Size (In)	Schedule	Item No.	Color	Pack Qty.	Bulk Pack Qty.
1/8	40	003A	Blue	1	50000
1/8	80	1000A	Blue	1	5000
1/4	40	007A	Blue	1	25000
1/4	80	005A	Blue	1	35000
3/8	40	013A	Blue	1	9000
3/8	80	009A	Blue	1	20000
1/2	40	016A	Blue	1	7500
1/2	80	013A	Blue	1	9000
3/4	40	026A	Blue	1	4000
3/4	80	022A	Blue	1	4000
1	40	038A	Blue	1	2500
1	80	030A	Blue	1	4500
1-1/4	40	047A	Blue	1	2000
1-1/4	80	044A	Blue	1	2500
1-1/2	40	054A	Blue	1	1700
1-1/2	80	051A	Blue	1	1500
2	40	061A	Blue	1	1000
2	80	058A	Blue	1	900
2-1/2	40	071A	Blue	1	600
2-1/2	80	064A	Blue	1	1000
3	40	083A	Blue	1	750
3	80	081A	Blue	1	500
3-1/2	40	088A	Blue	1	300
3-1/2	80	086A	Blue	1	400
4	40	092A	Blue	1	300
4	80	090A	Blue	1	300
5	40	1100A	Blue	1	250
5	80	096A	Blue	1	250
6	40	104A	Blue	1	90
6	80	102A	Blue	1	250
8	40	116A	Blue	1	100
8	80	112A	Blue	1	100
10	40	128A	Blue	1	75
12	40	133A	Blue	1	30
12	80	132A	Blue	1	40

NPT Series

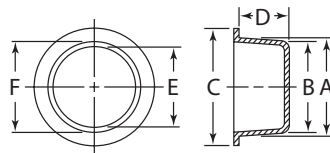
Plugs for NPT Threads

Specifications:

- Material: Low-Density Polyethylene
- Colors: Refer to Chart

Features:

- Designed specifically to be used to plug NPT tapered threaded fittings
- The tapered design allows the part to plug multiple inner diameters

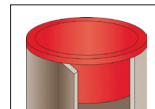


To Assure Proper Fit:



Plugs

Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"



Item No.	Use as a Plug						Color	Pack Qty.	Bulk Pack Qty.						
	A		B		C					D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			
NPT3/8A	0.615	15.62	0.570	14.48	0.750	19.05	0.285	7.24	0.497	12.62	0.535	13.59	Yellow	1	5000
NPT3/4A	0.955	24.26	0.922	23.42	1.125	28.58	0.363	9.22	0.849	21.56	0.872	22.15	Red	1	5500
NPT1-1/4A	1.560	39.62	1.510	38.35	1.750	44.45	0.435	11.05	1.401	35.59	1.481	37.62	Red	1	2000
NPT2A	2.275	57.79	2.225	56.52	2.437	61.90	0.495	12.57	2.092	53.14	2.194	55.73	Blue	1	2500
NPT2-1/2A	2.725	69.22	2.680	68.07	2.875	73.03	0.480	12.19	2.512	63.80	2.628	66.75	Black	1	600
NPT3A	3.325	84.46	3.285	83.44	3.500	88.90	0.470	11.94	3.154	80.11	3.220	81.79	Blue	1	400
NPT3-1/2A	3.785	96.14	3.775	95.89	4.062	103.17	0.750	19.05	3.665	93.09	3.675	93.35	Black	1	550
NPT4A	4.315	109.61	4.295	109.09	4.687	119.05	0.790	20.07	4.077	103.56	4.115	104.52	Blue	1	500
NPT5A	5.360	136.14	5.350	135.89	5.750	146.05	0.850	21.59	5.205	132.21	5.215	132.46	Blue	1	275
NPT6A	6.425	163.20	6.390	162.31	6.750	171.45	0.895	22.73	6.252	158.80	6.272	159.31	Blue	1	180



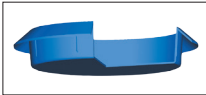
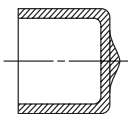
BW & DM Series
Butt-Weld Caps & Plugs

Specifications:

- Refer to Chart below

Features:

- Provides maximum protection for butt-weld ends on valves, pumps and heat exchangers
- Will not crack or chip and eliminates the need for plywood, masonite and fasteners
- Saves in labor assembly costs
- BW Plug – The special reverse angle matches the butt-weld angle and completely covers or protects the end during shipping and storage



Type: Cap

Type: Plug

Item No.	Nominal Pipe Size (In)	Type	Material	Color	Pack Qty.	Bulk Pack Qty.
DM0843-1/2A	1/2	Cap	PVC	Black	1	5000
DM1000-1/2A	3/4	Cap	PVC	Black	1	2500
DM1312-1/2A	1	Cap	PVC	Black	1	2000
DM1625-1/2A	1-1/4	Cap	PVC	Black	1	500
DM1875-1/2A	1-1/2	Cap	PVC	Black	1	700
BW2A	2	Plug	Polyethylene	Blue	1	1000
DM2375-1/2A	2	Cap	PVC	Black	1	500
BW2-1/2A	2-1/2	Plug	Polyethylene	Blue	1	600

Item No.	Nominal Pipe Size (In)	Type	Material	Color	Pack Qty.	Bulk Pack Qty.
DM2875-1/2A	2-1/2	Cap	PVC	Black	1	500
BW3A	3	Plug	Polyethylene	Blue	1	400
DM3500-1/2A	3	Cap	PVC	Black	1	200
DM4000-1/2A	3-1/2	Cap	PVC	Black	1	200
BW4A	4	Plug	Polyethylene	Blue	1	250
DM4500-1/2A	4	Cap	PVC	Black	1	200
DM5500-1/2A	5	Cap	PVC	Black	1	100
DM6500-1/2A	6	Cap	PVC	Black	1	100

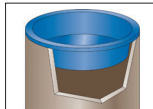
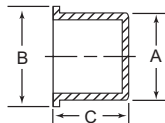
V Series
Socket-Weld Fitting Plugs

Specifications:

- Material: Polyethylene
- Color: Blue

Features:

- Designed to provide maximum protection for close fit socket weld applications
- Straight wall on the plugs O.D. provides a secure and friction fit with the mating parts I.D.



Item No.	Socket Weld Size	A In	B In	C In	Pack Qty.	Bulk Pack Qty.
V23A	1/2" Socket Weld	0.875	1.000	0.355	1	5000
V31A	3/4" Socket Weld	1.085	1.200	0.430	1	3000
V42A	1" Socket Weld	1.350	1.475	0.430	1	4000
V53A	1-1/4" Socket Weld	1.695	1.801	0.430	1	2500
V57A	1-1/2" Socket Weld	1.935	2.060	0.430	1	2000
V68A	2" Socket Weld	2.426	2.550	0.555	1	1000

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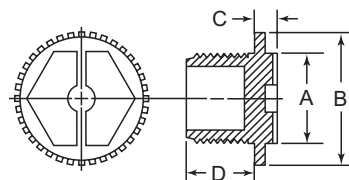
**PFP Series****NPT Threaded Plugs (O-Ring Optional)**

Specifications:

- Material: High-Density Polyethylene
- Color: Black

Features:

- Unique head design allows the user to apply or remove this plug by hand or with a 12 point socket head, screwdriver or wrench
- Used to protect NPT threaded ports
- Optional O-ring gives this part a watertight seal for superior leakage protection



Item No.	Item No. w/ O-Ring	To Fit NPT Thread Size	A		B		C		D		Pack Qty.	Bulk Pack Qty.
			In	mm	In	mm	In	mm	In	mm		
PFP1/8A	PFP1/8B	1/8" NPT	0.348	8.84	0.560	14.22	0.250	6.35	0.250	6.35	1	5000
PFP1/4A	PFP1/4B	1/4" NPT	0.489	12.42	0.740	18.80	0.310	7.87	0.310	7.87	1	5000
PFP3/8A	PFP3/8B	3/8" NPT	0.562	14.27	0.850	21.59	0.320	8.13	0.350	8.89	1	5000
PFP1/2A	PFP1/2B	1/2" NPT	0.705	17.91	1.040	26.42	0.320	8.13	0.500	12.70	1	3000
PFP3/4A	PFP3/4B	3/4" NPT	0.987	25.07	1.310	33.27	0.320	8.13	0.630	16.00	1	1500
PFP1A	PFP1B	1" NPT	1.130	28.70	1.530	38.86	0.320	8.13	0.630	16.00	1	1000

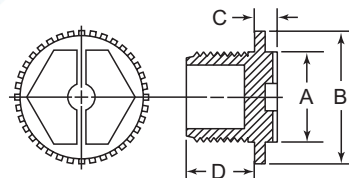
PFP Nylon Series**NPT Threaded Nylon Plugs (O-Ring Optional)**

Specifications:

- Material: Nylon
- Color: Natural

Features:

- Unique head design allows the user to apply or remove plug by hand or with a 12 point socket head, screwdriver or wrench
- Used to protect NPT threaded ports
- Optional O-ring gives this part a watertight seal for superior leakage protection
- Recommended for strength and abrasion resistance
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than HDPE. Nylon is recommended for intermittent temperatures of 230°F (110°C) to -40°F (-40°C)



Item No.	Item No. w/ O-Ring	To Fit NPT Thread Size	A		B		C		D		Pack Qty.	Bulk Pack Qty.
			In	mm	In	mm	In	mm	In	mm		
PFP1/8C	PFP1/8D	1/8" NPT	0.348	8.84	0.560	14.22	0.250	6.35	0.250	6.35	1	5000
PFP1/4C	PFP1/4D	1/4" NPT	0.489	12.42	0.740	18.80	0.310	7.87	0.310	7.87	1	5000
PFP3/8C	PFP3/8D	3/8" NPT	0.562	14.27	0.850	21.59	0.320	8.13	0.350	8.89	1	5000
PFP1/2C	PFP1/2D	1/2" NPT	0.705	17.91	1.040	26.42	0.320	8.13	0.500	12.70	1	3000
PFP3/4C	PFP3/4D	3/4" NPT	0.987	25.07	1.310	33.27	0.320	8.13	0.630	16.00	1	1500
PFP1C	PFP1D	1" NPT	1.130	28.70	1.530	38.86	0.320	8.13	0.630	16.00	1	1000

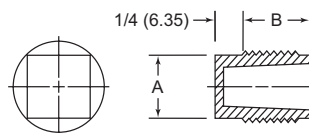
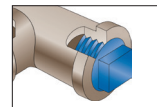
R Series**NPT Threaded Square-Headed Plugs**

Specifications:

- Material: Refer to Chart
- Color: Refer to Chart

Features:

- Square head design allows the user to install or remove these by hand or with a wrench
- Used to protect NPT threads against contaminants and moisture
- Nylon is recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than HDPE. Nylon is recommended for intermittent temperatures of 320°F (160°C) to -40°F (-40°C)



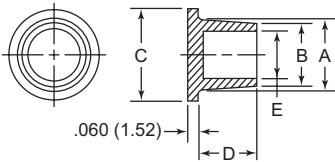
Item No.	Blue HDPE	Natural GFN	To Fit NPT Thread Size	A		B		Pack Qty.	Bulk Pack Qty.
				In	mm	In	mm		
R1/8A	R1/8C		1/8"-27	9/32	7.14	0.375	9.53	1	8500
R1/4A	R1/4C		1/4"-18	11/32	8.73	0.437	11.11	1	9000
R3/8A	R3/8B		3/8"-18	7/16	11.11	0.500	12.70	1	5000
R1/2A	R1/2D		1/2"-14	9/16	14.28	0.562	14.29	1	3000
R3/4A	R3/4B		3/4"-14	11/16	17.46	0.625	15.88	1	1900

Item No.	Blue HDPE	Natural GFN	To Fit NPT Thread Size	A		B		Pack Qty.	Bulk Pack Qty.
				In	mm	In	mm		
R1A	R1B		1"-11-1/2	3/4	19.05	0.625	15.88	1	1000
R1-1/4A	R1-1/4C		1-1/4"-11-1/2	15/16	23.81	0.625	15.88	1	500
R1-1/2A	R1-1/2C		1-1/2"-11-1/2	1-1/8	28.57	0.625	15.88	1	500
R2A			2"-11-1/2	1-1/4	31.75	0.625	15.88	1	500



EN Series
Plugs for NPT Threads

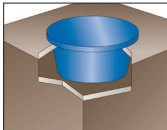
- Specifications:
- Material: Low-Density Polyethylene
 - Color: Blue
- Features:
- Designed specifically to be used to plug NPT tapered threaded fittings
 - The tapered design allows the part to plug multiple inner diameters



To Assure Proper Fit:



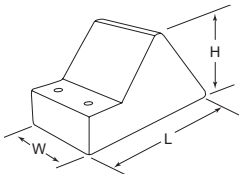
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"



Item No.	NPT Size I.D.	Use as a Plug										Pack Qty.	Bulk Pack Qty.
		A		B		C		D		E			
		In	mm	In	mm	In	mm	In	mm	In	mm		
EN1/4A	1/4"	0.485	12.32	0.420	10.67	0.609	15.48	0.281	7.14	0.355	9.02	1	5000
EN3/8A	3/8"	0.640	16.26	0.550	13.97	0.766	19.45	0.500	12.70	0.500	12.70	1	6500
EN1/2A	1/2"	0.785	19.94	0.690	17.53	0.906	23.02	0.500	12.70	0.625	15.88	1	4000
EN3/4A	3/4"	0.975	24.77	0.870	22.10	1.094	27.78	0.625	15.88	0.812	20.63	1	2500
EN1A	1"	1.200	30.48	1.090	27.69	1.344	34.13	0.656	16.67	1.301	26.19	1	1500

PCK Series
Pipe Chocks

- Specifications:
- Material: LDPE
 - Color: Refer to Chart
- Features:
- Pipe chocks are used to help secure pipe during transit
 - Nails are included

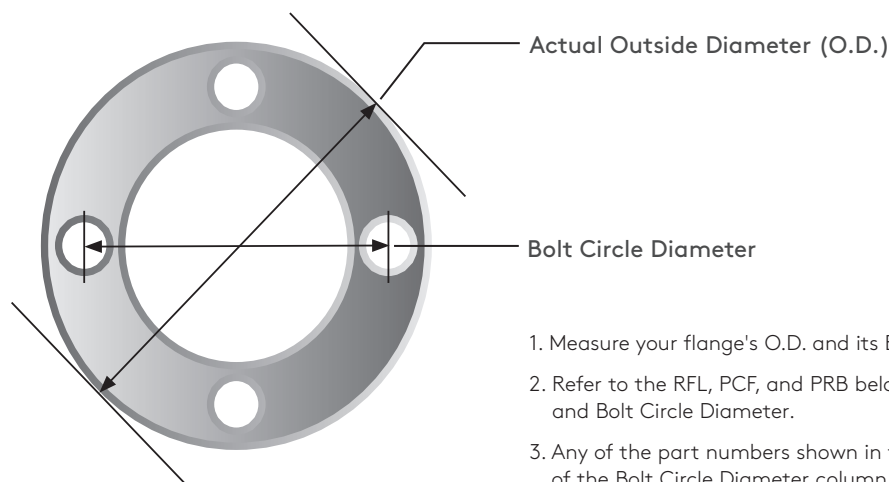


Item No.	Color	L		W		H		Pack Qty.	Bulk Pack Qty.
		In	mm	In	mm	In	mm		
PCK0400B	ORANGE	4.500	114.30	2.750	69.85	2.000	50.80	1	50
PCK0800B	ORANGE	8.000	203.20	3.500	88.90	3.000	76.20	1	20

wrap it • cover it • shield it • secure it



HOW TO MEASURE A FLANGE



1. Measure your flange's O.D. and its Bolt Circle Diameter as shown.
2. Refer to the RFL, PCF, and PRB below and locate your Actual (O.D.) and Bolt Circle Diameter.
3. Any of the part numbers shown in the part number columns to the right of the Bolt Circle Diameter column will work on your flange.

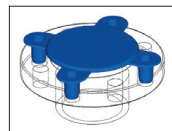
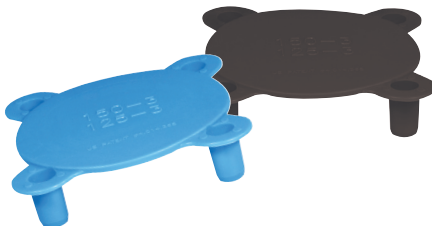
**150, 300, 600 & 900 Series
Quick-Fit Raised-Face Protectors**

Specifications:

- Material: Polyethylene
- Colors: Refer to Chart
- Meets ANSI B16.5 and API specifications
- Suitable for use on ASA and BS1560 flanges

Features:

- Quickly fits into flange bolt holes
- Weather and petroleum resistant
- Requires no fasteners



Nominal Pipe Size (in)	Class Pressure Rating	Item No.	Color	Pack Qty.	Bulk Pack Qty.
1/2	125	1501/2A	Blue	1	600
1/2	150	1501/2A	Blue	1	600
1/2	300	3001/2A	Black	1	500
1/2	400	3001/2A	Black	1	500
1/2	600	3001/2A	Black	1	500
1/2	900	9001/2A	Black	1	400
1/2	1500	9001/2A	Black	1	400
3/4	125	1503/4A	Blue	1	550
3/4	150	1503/4A	Blue	1	550
3/4	300	3003/4A	Black	1	325
3/4	400	3003/4A	Black	1	325
3/4	600	3003/4A	Black	1	325
3/4	900	9003/4A	Black	1	300
3/4	1500	9003/4A	Black	1	300
1	125	1501A	Blue	1	400
1	150	1501A	Blue	1	400
1	300	3001A	Black	1	280
1	400	3001A	Black	1	280
1	600	3001A	Black	1	280
1	900	9001A	Black	1	250
1	1500	9001A	Black	1	250
1-1/4	125	1501-1/4A	Blue	1	350
1-1/4	150	1501-1/4A	Blue	1	350
1-1/4	300	3001-1/4A	Black	1	200
1-1/4	400	3001-1/4A	Black	1	200
1-1/4	600	3001-1/4A	Black	1	200
1-1/4	900	9001-1/4A	Black	1	200
1-1/4	1500	9001-1/4A	Black	1	200
1-1/2A	125	1501-1/2A	Blue	1	250
1-1/2A	150	1501-1/2A	Blue	1	250
1-1/2A	300	3001-1/2A	Black	1	150
1-1/2A	400	3001-1/2A	Black	1	150
1-1/2A	600	3001-1/2A	Black	1	150
1-1/2A	900	900-1-1/2A	Black	1	100
1-1/2A	1500	900-1-1/2A	Black	1	100
2	125	1502A	Blue	1	200
2	150	1502A	Blue	1	200
2	300	3002A	Black	1	125
2	400	3002A	Black	1	125
2	600	3002A	Black	1	125
2	900	9002A	Black	1	100
2	1500	9002A	Black	1	100
2-1/2A	125	1502-1/2A	Blue	1	150

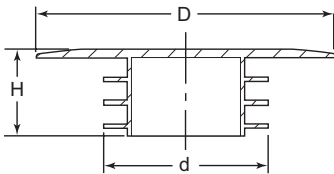
Nominal Pipe Size (in)	Class Pressure Rating	Item No.	Color	Pack Qty.	Bulk Pack Qty.
2-1/2A	150	1502-1/2A	Blue	1	150
2-1/2A	300	3002-1/2A	Black	1	100
2-1/2A	400	3002-1/2A	Black	1	100
2-1/2A	600	3002-1/2A	Black	1	100
2-1/2A	900	9002-1/2A	Black	1	100
2-1/2A	1500	9002-1/2A	Black	1	100
3	125	1503A	Blue	1	100
3	150	1503A	Blue	1	100
3	300	3003A	Black	1	100
3	400	3003A	Black	1	100
3	600	3003A	Black	1	100
3	900	9003A	Black	1	50
3-1/2	125	1503-1/2A	Blue	1	100
3-1/2	150	1503-1/2A	Blue	1	100
3-1/2	300	3003-1/2A	Black	1	80
4	125	1504A	Blue	1	100
4	150	1504A	Blue	1	100
4	300	3004A	Black	1	80
4	600	6004A	Black	1	50
4	900	9004A	Black	1	50
5	150	900098	Blue	1	50
5	300	900099	Blue	1	50
6	125	1506A	Blue	1	90
6	150	1506A	Blue	1	90
6	300	3006A	Black	1	40
6	600	6006A	Black	1	30
6	900	9006A	Black	1	20
8	125	1508A	Blue	1	70
8	150	1508A	Blue	1	70
8	300	3008A	Black	1	45
8	600	6008A	Black	1	20
8	900	9008A	Black	1	20
10	125	15010A	Blue	1	35
10	150	15010A	Blue	1	35
10	300	30010A	Black	1	35
10	600	60010A	Black	1	10
10	900	90010A	Black	1	10
12	125	15012A	Blue	1	30
12	150	15012A	Blue	1	30
12	300	30012A	Black	1	25
12	600	60012A	Black	1	10
12	900	90012A	Black	1	10



PIR Series
Push-In Raised Face Protectors

- Specifications:
- Material: Polyethylene
 - Color: Yellow
 - Suitable for ANSI and DIN flanges

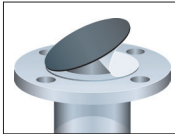
- Features:
- The flexible fins ensure a snug fit into the bore
 - Protects raised face against dirt, moisture, paint and sand blasting
 - Parts fit 150, 300, 600, 900, 1500 and 2500 pound flanges
 - Requires no fasteners



Item No.	Nominal Pipe Size In.	DIN	d In	D In	H In	Pack Qty.	Bulk Pack Qty.
PIR494283A	1/2	DN 15	0.748	1.772	0.650	1	500
PIR494284A	3/4	DN 20	0.945	2.283	0.650	1	500
PIR494285A	1	DN 25	1.181	2.756	0.768	1	500
PIR494286A	1-1/4	DN 32	1.535	3.071	1.161	1	500
PIR494287A	1-1/2	DN 40	1.772	3.465	1.161	1	400
PIR494288A	2	DN 50	2.205	4.016	1.161	1	200
PIR494289A	2-1/2	DN 65	2.835	4.803	1.358	1	200
PIR494290A	3	DN 80	3.346	5.433	1.358	1	150
PIR494291A	4	DN 100	4.685	6.417	1.437	1	100
PIR494292A	5	DN 125	5.630	7.480	1.437	1	100
PIR494293A	6	DN 150	6.693	8.465	1.437	1	50
PIR494294A	8	DN 200	8.701	10.630	1.634	1	30
PIR494295A	10	DN 250	10.827	13.583	1.634	1	20
PIR494296A	12	DN 300	12.795	16.063	1.634	1	10

PGR Series
Adhesive Peel & Stick Raised-Face Protectors

- Specifications:
- Meets ANSI/ASME B16.5 specifications
 - Material: Polyethylene
 - Color: Black
- Features:
- Adhesive backed, peel and stick design
 - Each size will protect the raised-face for the 150, 300, 400, 600, 900, 1500 and 2500 pound flanges
 - Special adhesive bonds tightly and leaves no residue under normal conditions
 - Requires no fasteners

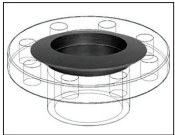


Item No.	Nominal Pipe Size (In)	Actual O.D. In	Pack Qty.	Bulk Pack Qty.
PGR1/2A	1/2	1.380	1	50
PGR3/4A	3/4	1.690	1	50
PGR1A	1	2.000	1	50
PGR1-1/4A	1-1/4	2.500	1	50
PGR1-1/2A	1-1/2	2.880	1	50
PGR2A	2	3.620	1	50
PGR2-1/2A	2-1/2	4.120	1	25
PGR3A	3	5.000	1	50

Item No.	Nominal Pipe Size (In)	Actual O.D. In	Pack Qty.	Bulk Pack Qty.
PGR3-1/2A	3-1/2	5.500	1	50
PGR4B	4	6.190	1	50
PGR5A	5	7.310	1	50
PGR6A	6	8.500	1	50
PGR8A	8	10.620	1	25
PGR10A	10	12.750	1	25
PGR12A	12	15.000	1	25

FPR Series
Raised-Face Protector Plugs

- Specifications:
- Material: Polyethylene
 - Color: Black
 - Meets ANSI/ASME B16.5 Specifications
- Features:
- Protects petroleum, gas and water type valve flanges
 - Protects raised machine face and pipe interior from dirt and moisture during shot and sandblasting operations
 - Bolt holes are not covered by flange plugs
 - Tapered plug design fits snugly into the pipe's interior
 - Requires no fasteners



Item No.	Nominal Pipe Size In.	A In	B In	C In	D In	Flange Thickness In	Pack Qty.	Bulk Pack Qty.
FPR1A	1	1.110	1.156	2.080	0.375	0.150	1	2000
FPR2A	2	2.050	2.075	3.805	0.440	0.140	1	400
FPR2-1/2A	2-1/2	2.490	2.510	4.315	0.480	0.130	1	400
FPR3A	3	3.030	3.110	5.195	0.730	0.132	1	450
FPR4A	4	3.995	4.095	6.550	0.925	0.130	1	250

Item No.	Nominal Pipe Size In.	A In	B In	C In	D In	Flange Thickness In	Pack Qty.	Bulk Pack Qty.
FPR5A	5	4.990	5.080	7.475	1.070	0.125	1	175
FPR6A	6	5.950	6.050	8.810	1.265	0.125	1	100
FPR8A	8	8.000	8.070	11.020	1.275	0.145	1	70
FPR10A	10	9.995	10.150	12.925	1.330	0.170	1	50
FPR12A	12	12.010	12.155	15.215	1.330	0.165	1	35



FULL-FACE FLANGE PROTECTORS

RFL/PCF/PRB Series
Full-Face Flange Protectors

RFL Series



PCF Series



PRB Series



Features:

- Designed per ANSI B16.5 and ASME b16.47 flange dimensions
- Provides full face flange protection on the flange's exposed sealing surface
- Specifically designed with multiple holes to match the flange's bolt hole diameter and bolt circle
- Fasteners required - see chart and pages 17-18.



Cable Tie



Hole Plug



Pin/Washer

Nominal Pipe Size	Class Pressure Rating	Actual (O.D.) In	Bolt Circle Dia.	Hole Size	Item No.			Pack Qty.	Bulk Pack Qty.	Fasteners			
					RFL Series HDPE	PCF Series PP	PRB Series Pressboard			Cable Tie	Hole Plug	PIN	Washer
1/2	150	3.500	2.375	0.625	RFD150-1/2A	PCF150-1/2A	PRB150-1/2A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	300	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	400	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	600	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	900	4.750	3.250	0.875	RFL900-1/2A	PCF900-1/2A	PRB900-1/2A	1	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
1/2	1500	4.750	3.250	0.875	RFL900-1/2A	PCF900-1/2A	PRB900-1/2A	1	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
1/2	2500	5.250	3.500	0.875	RFL2500-1/2A	PCF2500-1/2A	PRB2500-1/2A	1	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	150	3.875	2.750	0.625	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	300	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	400	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	600	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	900	5.125	3.500	0.875	RFL900-3/4A	PCF900-3/4A	PRB900-3/4A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	1500	5.125	3.500	0.875	RFL900-3/4A	PCF900-3/4A	PRB900-3/4A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	2500	5.500	3.750	0.875	RFL2500-3/4A	PCF2500-3/4A	PRB2500-3/4A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1	150	4.250	3.125	0.625	RFD150-1A	PCF150-1A	PRB150-1A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1	300	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	400	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	600	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	900	5.875	4.000	1.000	RFL900-1A	PCF900-1A	PRB900-1A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1	1500	5.875	4.000	1.000	RFL900-1A	PCF900-1A	PRB900-1A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1	2500	6.250	4.250	1.000	RFL2500-1A	PCF2500-1A	PRB2500-1A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	150	4.625	3.500	0.625	RFD150-1-1/4A	PCF150-1-1/4A	PRB150-1-1/4A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1-1/4	300	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	400	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	600	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	900	6.250	4.875	1.000	RFL900-1-1/4A	PCF900-1-1/4A	PRB900-1-1/4A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	1500	6.250	4.875	1.000	RFL900-1-1/4A	PCF900-1-1/4A	PRB900-1-1/4A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	2500	7.250	5.125	1.125	RFL2500-1-1/4A	PCF2500-1-1/4A	PRB2500-1-1/4A	1	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	150	5.000	3.875	0.625	RFD150-1-1/2A	PCF150-1-1/2A	PRB150-1-1/2A	1	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1-1/2	300	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	400	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	600	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	900	7.000	4.875	1.125	RFL900-1-1/2A	PCF900-1-1/2A	PRB900-1-1/2A	1	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	1500	7.000	4.875	1.125	RFL900-1-1/2A	PCF900-1-1/2A	PRB900-1-1/2A	1	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	2500	8.000	5.750	1.250	RFL2500-1-1/2A	PCF2500-1-1/2A	PRB2500-1-1/2A	1	50	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
2	150	6.000	4.750	0.750	RFL150-2A	PCF150-2A	PRB150-2A	1	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
2	300	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	400	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	600	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	900	8.500	6.500	1.000	RFL900-2A	PCF900-2A	PRB900-2A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	1500	8.500	6.500	1.000	RFL900-2A	PCF900-2A	PRB900-2A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	2500	9.250	6.750	1.125	RFL2500-2A	PCF2500-2A	PRB2500-2A	1	50	CT027B	FLS025B	PIN3-1/4B	WAS1-3/8A
2-1/2	150	7.000	5.500	0.750	RFL150-2-1/2A	PCF150-2-1/2A	PRB150-2-1/2A	1	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
2-1/2	300	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	400	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	600	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	900	9.625	7.500	1.125	RFL900-2-1/2A	PCF900-2-1/2A	PRB900-2-1/2A	1	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
2-1/2	1500	9.625	7.500	1.125	RFL900-2-1/2A	PCF900-2-1/2A	PRB900-2-1/2A	1	50	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
2-1/2	2500	10.500	7.750	1.250	RFL2500-2-1/2A	PCF2500-2-1/2A	PRB2500-2-1/2A	1	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
3	150	7.500	6.000	0.750	RFL150-3A	PCF150-3A	PRB150-3A	1	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
3	300	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	400	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	600	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	900	9.500	7.500	1.000	RFL900-3A	PCF900-3A	PRB900-3A	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
3	1500	10.500	8.000	1.250	RFL1500-3A	PCF1500-3A	PRB1500-3A	1	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
3	2500	12.000	9.000	1.375	RFL2500-3A	PCF2500-3A	PRB2500-3A	1	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
3-1/2	150	8.500	7.000	0.750	RFL150-3-1/2A	PCF150-3-1/2A	PRB150-3-1/2A	1	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
3-1/2	300	9.000	7.250	0.875	RFL300-3-1/2A	PCF300-3-1/2A	PRB300-3-1/2A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3-1/2	400	9.000	7.250	1.000	RFL600-3-1/2A	—	—	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
3-1/2	600	9.000	7.250	1.000	RFL600-3-1/2A	—	—	1	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
4	150	9.000	7.500	0.750	RFL150-4A	PCF150-4A	PRB150-4A	1	25	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
4	300	10.000	7.875	0.875	RFL300-4A	PCF300-4A	PRB300-4A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
4	400	10.000	7.875	1.000	RFL400-4A	—	—	1	50	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A

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PIPE & FLANGE PROTECTION
FULL-FACE FLANGE PROTECTORS



RFL/PCF/PRB Series
Full-Face Flange Protectors



RFL Series



PCF Series



PRB Series



Cable Tie



Hole Plug



Pin/Washer



Nominal Pipe Size	Class Pressure Rating	Actual (O.D.) In	Bolt Circle Dia.	Hole Size	Item No.			Pack Qty.	Bulk Pack Qty.	Fasteners			
					RFL Series HDPE	PCF Series PP	PRB Series Pressboard			Cable Tie	Hole Plug	PIN	Washer
4	600	10.750	8.500	1.000	RFL600-4A	PCF600-4A	PRB600-4A	1	50	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
4	900	11.500	9.250	1.250	RFL900-4A	PCF900-4A	PRB900-4A	1	25	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
4	1500	12.250	9.500	1.375	RFL1500-4A	PCF1500-4A	PRB1500-4A	1	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
4	2500	14.000	10.750	1.625	RFL2500-4A	PCF2500-4A	PRB2500-4A	1	25	CT029B	FLS045B	—	—
5	150	10.000	8.500	0.875	RFL150-5A	PCF150-5A	PRB150-5A	1	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
5	300	11.000	9.250	0.875	RFL300-5A	PCF300-5A	PRB300-5A	1	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
5	400	11.000	9.250	1.000	RFL400-5A	—	—	1	25	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
5	600	13.000	10.500	1.125	RFL600-5A	PCF600-5A	PRB600-5A	1	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
5	900	13.750	11.000	1.375	RFL900-5A	PCF900-5A	PRB900-5A	1	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
5	1500	14.750	11.500	1.625	RFL1500-5A	PCF1500-5A	PRB1500-5A	1	25	CT029B	FLS045B	—	—
5	2500	16.500	12.750	1.875	RFL2500-5A	PCF2500-5A	PRB2500-5A	1	25	CT029B	FLS055B	—	—
6	150	11.000	9.500	0.875	RFL150-6A	PCF150-6A	PRB150-6A	1	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
6	300	12.500	10.625	0.875	RFL300-6A	PCF300-6A	PRB300-6A	1	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
6	400	12.500	10.625	1.000	RFL400-6A	—	—	1	25	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
6	600	14.000	11.500	1.125	RFL600-6A	PCF600-6A	PRB600-6A	1	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
6	900	15.000	12.500	1.250	RFL900-6A	PCF900-6A	PRB900-6A	1	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
6	1500	15.500	12.500	1.500	RFL1500-6A	PCF1500-6A	PRB1500-6A	1	25	CT029B	FLS040B	—	—
6	2500	19.000	14.500	2.125	RFL2500-6A	PCF2500-6A	PRB2500-6A	1	25	CT076B	FLS065B	—	—
8	150	13.500	11.750	0.875	RFL150-8A	PCF150-8A	PRB150-8A	1	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
8	300	15.000	13.000	1.000	RFL300-8A	PCF300-8A	PRB300-8A	1	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
8	400	15.000	13.000	1.125	RFL400-8A	—	—	1	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
8	600	16.500	13.750	1.250	RFL600-8A	PCF600-8A	PRB600-8A	1	25	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
8	900	18.500	15.500	1.500	RFL900-8A	PCF900-8A	PRB900-8A	1	25	CT027B	FLS040B	PIN3-1/4B	WAS1-3/8A
8	1500	19.000	15.500	1.750	RFL1500-8A	PCF1500-8A	PRB1500-8A	1	25	CT029B	FLS050B	—	—
8	2500	21.750	17.250	2.125	RFL2500-8A	PCF2500-8A	PRB2500-8A	1	10	CT076B	FLS065B	—	—
10	150	16.000	14.250	1.000	RFL150-10A	PCF150-10A	PRB150-10A	1	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
10	300	17.500	15.250	1.125	RFL300-10A	PCF300-10A	PRB300-10A	1	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
10	400	17.500	15.250	1.250	RFL400-10A	—	—	1	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
10	600	20.000	17.000	1.375	RFL600-10A	PCF600-10A	PRB600-10A	1	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
10	900	21.500	18.500	1.500	RFL900-10A	PCF900-10A	PRB900-10A	1	10	CT027B	FLS040B	—	WAS1-3/4A
10	1500	23.000	19.000	2.000	RFL1500-10A	PCF1500-10A	PRB1500-10A	1	10	CT076B	FLS060B	—	—
10	2500	26.500	21.250	2.625	RFL2500-10A	PCF2500-10A	PRB2500-10A	1	10	CT076B	FLS075B	—	—
12	150	19.000	17.000	1.000	RFL150-12A	PCF150-12A	PRB150-12A	1	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
12	300	20.500	17.750	1.250	RFL300-12A	PCF300-12A	PRB300-12A	1	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
12	400	20.500	17.750	1.375	RFL400-12A	—	—	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
12	600	22.000	19.250	1.375	RFL600-12A	PCF600-12A	PRB600-12A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
12	900	24.000	21.000	1.500	RFL900-12A	PCF900-12A	PRB900-12A	1	10	CT029B	FLS040B	—	—
12	1500	26.500	22.500	2.125	RFL1500-12A	PCF1500-12A	PRB1500-12A	1	10	CT076B	FLS065B	—	—
12	2500	30.000	24.380	2.875	RFL2500-12A	PCF2500-12A	PRB2500-12A	1	10	CT076B	—	—	—
14	150	21.000	18.750	1.125	RFL150-14A	PCF150-14A	PRB150-14A	1	10	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
14	300	23.000	20.250	1.250	RFL300-14A	PCF300-14A	PRB300-14A	1	10	CT025B	FLS030B	PIN3-1/4B	—
14	400	23.000	20.250	1.375	RFL400-14A	—	—	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
14	600	23.750	20.750	1.500	RFL600-14A	PCF600-14A	PRB600-14A	1	10	CT027B	FLS040B	—	—
14	900	25.250	22.000	1.625	RFL900-14A	PCF900-14A	PRB900-14A	1	10	CT029B	FLS045B	—	—
14	1500	29.500	25.000	2.375	RFL1500-14A	PCF1500-14A	PRB1500-14A	1	10	CT076B	FLS070B	—	—
16	150	23.500	21.250	1.125	RFL150-16A	PCF150-16A	PRB150-16A	1	10	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
16	300	25.500	22.500	1.375	RFL300-16A	PCF300-16A	PRB300-16A	1	10	CT025B	FLS035B	PIN3-1/4B	WAS1-3/4A
16	400	25.500	22.500	1.500	RFL400-16A	—	—	1	10	CT027B	FLS040B	PIN3-1/4B	WAS1-3/4A
16	600	27.000	23.750	1.625	RFL600-16A	PCF600-16A	PRB600-16A	1	10	CT027B	FLS045B	—	—
16	900	27.750	24.250	1.750	RFL900-16A	PCF900-16A	PRB900-16A	1	10	CT029B	FLS050B	—	—
16	1500	32.500	27.750	2.625	RFL1500-16A	PCF1500-16A	PRB1500-16A	1	10	CT076B	FLS075B	—	—
18	150	25.000	22.750	1.250	RFL150-18A	PCF150-18A	PRB150-18A	1	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
18	300	28.000	24.750	1.375	RFL300-18A	PCF300-18A	PRB300-18A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
18	400	28.000	24.750	1.500	RFL400-18A	—	—	1	10	CT027B	FLS040B	PIN3-1/4B	WAS1-3/4A
18	600	29.250	25.750	1.750	RFL600-18A	PCF600-18A	PRB600-18A	1	10	CT027B	FLS050B	—	—
18	900	31.000	27.000	2.000	RFL900-18A	PCF900-18A	PRB900-18A	1	10	CT076B	FLS060B	—	—
18	1500	36.000	30.500	2.875	RFL1500-18A	PCF1500-18A	PRB1500-18A	1	10	CT076B	—	—	—
20	150	27.500	25.000	1.250	RFL150-20A	PCF150-20A	PRB150-20A	1	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
20	300	30.500	27.000	1.375	RFL300-20A	PCF300-20A	PRB300-20A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
20	400	30.500	27.000	1.625	RFL400-20A	—	—	1	10	CT029B	FLS045B	—	—
20	600	32.000	28.500	1.750	RFL600-20A	PCF600-20A	PRB600-20A	1	10	CT029B	FLS050B	—	—
20	900	33.750	29.500	2.125	RFL900-20A	PCF900-20A	PRB900-20A	1	10	CT076B	FLS065B	—	—
20	1500	38.750	32.750	3.125	RFL1500-20A	PCF1500-20A	PRB1500-20A	1	10	CT080B	—	—	—
22	150	29.500	27.250	1.375	RFL150-22A	PCF150-22A	PRB150-22A	1	10	CT025B	FLS035B	PIN3-1/4B	WAS1-3/4A
22	300	33.000	29.250	1.625	RFL300-22A	PCF300-22A	PRB300-22A	1	10	CT029B	FLS045B	PIN3-1/4B	WAS1-3/4A
22	400	33.000	29.250	1.750	RFL400-22A	—	—	1	10	CT029B	FLS050B	—	—
22	600	34.250	30.625	1.750	RFL600-22A	PCF600-22A	PRB600-22A	1	10	CT029B	FLS050B	—	—
24	150	32.000	29.500	1.375	RFL150-24A	PCF150-24A	PRB150-24A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A

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PIPE & FLANGE PROTECTION

FULL-FACE FLANGE PROTECTORS

RFL/PCF/PRB Series Full-Face Flange Protectors



RFL Series



PCF Series



PRB Series



Cable Tie



Hole Plug



Pin/Washer

Nominal Pipe Size	Class Pressure Rating	Actual (O.D.) In	Bolt Circle Dia.	Hole Size	Item No.			Pack Qty.	Bulk Pack Qty.	Fasteners			
					RFL Series HDPE	PCF Series PP	PRB Series Pressboard			Cable Tie	Hole Plug	PIN	Washer
24	300	36.000	32.000	1.625	RFL300-24A	PCF300-24A	PRB300-24A	1	10	CT029B	FLS045B	—	—
24	400	36.000	32.000	1.875	RFL400-24A	—	—	1	10	CT029B	FLS055B	—	—
24	600	37.000	33.000	2.000	RFL600-24A	PCF600-24A	PRB600-24A	1	10	CT076B	FLS060B	—	—
24	900	41.000	35.500	2.625	RFL900-24A	PCF900-24A	PRB900-24A	1	10	CT076B	FLS075B	—	—
24	1500	46.000	39.000	3.625	RFL1500-24A	PCF1500-24A	PRB1500-24A	1	10	CT080B	FLS080B	—	—
26	150	34.250	31.750	1.375	RFL150-26A	PCF150-26A	PRB150-26A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
26	300	38.250	34.500	1.750	RFL300-26A	PCF300-26A	PRB300-26A	1	10	CT029B	FLS050B	—	—
26	400	38.250	34.500	1.875	RFL400-26A	—	—	1	10	CT029B	FLS055B	—	—
26	600	40.000	36.000	2.000	RFL600-26A	PCF600-26A	PRB600-26A	1	10	CT076B	FLS060B	—	—
26	900	42.750	37.500	2.875	RFL900-26A	PCF900-26A	PRB900-26A	1	10	CT076B	—	—	—
28	150	36.500	34.000	1.375	RFL150-28A	PCF150-28A	PRB150-28A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
28	300	40.750	37.000	1.750	RFL300-28A	PCF300-28A	PRB300-28A	1	10	CT029B	FLS050B	—	—
28	400	40.750	37.000	2.000	RFL400-28A	—	—	1	10	CT029B	FLS060B	—	—
28	600	42.250	38.000	2.125	RFL600-28A	PCF600-28A	PRB600-28A	1	10	CT076B	FLS065B	—	—
28	900	46.000	40.250	3.125	RFL900-28A	PCF900-28A	PRB900-28A	1	10	CT076B	—	—	—
30	150	38.750	36.000	1.375	RFL150-30A	PCF150-30A	PRB150-30A	1	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
30	300	43.000	39.250	1.875	RFL300-30A	PCF300-30A	PRB300-30A	1	10	CT029B	FLS055B	—	—
30	400	43.000	39.250	2.125	RFL400-30A	—	—	1	10	CT076B	FLS065B	—	—
30	600	44.500	40.250	2.125	RFL600-30A	PCF600-30A	PRB600-30A	1	10	CT076B	FLS065B	—	—
30	900	48.500	42.750	3.125	RFL900-30A	—	—	1	1	CT076B	—	—	—
32	150	41.750	38.500	1.625	RFL150-32A	PCF150-32A	PRB150-32A	1	10	CT029B	FLS045B	—	—
32	300	45.250	41.500	2.000	RFL300-32A	PCF300-32A	PRB300-32A	1	10	CT029B	FLS060B	—	—
32	400	45.250	41.500	2.125	RFL400-32A	—	—	1	10	CT076B	FLS065B	—	—
32	600	47.000	42.500	2.375	RFL600-32A	PCF600-32A	PRB600-32A	1	10	CT076B	FLS070B	—	—
32	900	51.750	45.500	3.375	RFL900-32A	—	—	1	10	CT076B	—	—	—
34	150	43.750	40.500	1.625	RFL150-34A	PCF150-34A	PRB150-34A	1	10	CT029B	FLS045B	—	—
34	300	47.500	43.500	2.000	RFL300-34A	PCF300-34A	PRB300-34A	1	10	CT076B	FLS060B	—	—
34	400	47.500	43.500	2.125	RFL400-34A	—	—	1	10	CT076B	FLS065B	—	—
34	600	49.000	44.500	2.375	RFL600-34A	—	—	1	10	CT076B	FLS070B	—	—
34	900	55.000	48.250	3.625	RFL900-34A	—	—	1	10	CT076B	FLS080B	—	—
36	150	46.000	42.750	1.625	RFL150-36A	PCF150-36A	PRB150-36A	1	10	CT029B	FLS045B	—	—
36	300	50.000	46.000	2.125	RFL300-36A	—	—	1	10	CT076B	FLS065B	—	—
36	400	50.000	46.000	2.125	RFL400-36A	—	—	1	10	CT076B	FLS065B	—	—
36	600	51.750	47.000	2.625	RFL600-36A	—	—	1	10	CT076B	FLS075B	—	—
36	900	57.500	50.750	3.625	RFL900-36A	—	—	1	10	CT076B	FLS080B	—	—
38	150	48.750	45.250	1.625	RFL150-38A	—	—	1	10	CT080B	FLS045B	—	—
38	300	46.000	43.000	1.625	RFL300-38A	—	—	1	10	CT080B	FLS045B	—	—
38	400	47.500	44.000	1.875	RFL400-38A	—	—	1	10	CT080B	FLS055B	—	—
38	600	50.000	45.750	2.375	RFL600-38A	—	—	1	10	CT080B	FLS070B	—	—
38	900	57.500	50.750	3.625	RFL900-38A	—	—	1	10	CT080B	FLS080B	—	—
40	150	50.750	47.250	1.625	RFL150-40A	—	—	1	1	CT080B	FLS045B	—	—
40	300	48.750	45.500	1.750	RFL300-40A	—	—	1	1	CT080B	FLS050B	—	—
40	400	50.000	46.250	2.000	RFL400-40A	—	—	1	1	CT080B	FLS060B	—	—
40	600	52.000	47.750	2.375	RFL600-40A	—	—	1	1	CT080B	FLS070B	—	—
40	900	59.500	52.750	3.625	RFL900-40A	—	—	1	1	CT080B	FLS080B	—	—
42	150	53.000	49.500	1.625	RFL150-42A	—	—	1	1	CT080B	FLS045B	—	—
42	300	50.750	47.500	1.750	RFL300-42A	—	—	1	1	CT080B	FLS050B	—	—
42	400	52.000	48.250	2.000	RFL400-42A	—	—	1	1	CT080B	FLS060B	—	—
42	600	55.250	50.500	2.625	RFL600-42A	—	—	1	1	CT080B	FLS075B	—	—
44	150	55.250	51.750	1.625	RFL150-44A	—	—	1	1	CT080B	FLS045B	—	—
44	300	53.250	49.750	1.875	RFL300-44A	—	—	1	1	CT080B	FLS055B	—	—
44	400	54.500	50.500	2.125	RFL400-44A	—	—	1	1	CT080B	FLS065B	—	—
44	600	57.250	52.500	2.625	RFL600-44A	—	—	1	1	CT080B	FLS075B	—	—
46	150	57.250	53.750	1.625	RFL150-46A	—	—	1	1	CT080B	FLS045B	—	—
46	300	55.750	52.000	2.000	RFL300-46A	—	—	1	1	CT080B	FLS060B	—	—
46	400	56.750	52.750	2.125	RFL400-46A	—	—	1	1	CT080B	FLS065B	—	—
46	600	59.500	54.750	2.625	RFL600-46A	—	—	1	1	CT080B	FLS075B	—	—
48	150	59.500	56.000	1.625	RFL150-48A	—	—	1	1	CT080B	FLS045B	—	—
48	300	57.750	54.000	2.000	RFL300-48A	—	—	1	1	CT080B	FLS060B	—	—
48	400	59.500	55.250	2.375	RFL400-48A	—	—	1	1	CT080B	FLS070B	—	—



Flange Protection Discs

- Specifications:
- Material: PolyCor™ corrugated polypropylene
 - Color: Black

- Features:
- Provides simple, cost-effective protection for flanges
 - Covers full flange face - applied by strapping cable ties through bolt holes
 - Wide range covers variety of DIN sizes and pressure ratings



DIN - PN 6 Range

Part Number	Nominal Pipe Size	Outside Diameter	Bolt Circle Diameter	Bolt Hole Size	Std Pack Qty	Cable Tie Part Number
		mm	mm	mm		
PCL6DN10A	DN 10	75	50	11	50	CT022B
PCL6DN15A	DN 15	80	55	11	50	CT022B
PCL6DN20A	DN 20	90	65	11	50	CT022B
PCL6DN25A	DN 25	100	75	11	50	CT022B
PCL6DN32A	DN 32	120	90	14	50	CT022B
PCL6DN40A	DN 40	130	100	14	50	CT022B
PCL6DN50A	DN 50	140	110	14	50	CT022B
PCL6DN65A	DN 65	160	130	14	50	CT022B
PCL6DN80A	DN 80	190	150	18	50	CT022B
PCL6DN100A	DN 100	210	170	18	50	CT022B
PCL6DN125A	DN 125	240	200	18	50	CT022B
PCL6DN150A	DN 150	265	225	18	25	CT022B
PCL6DN200A	DN 200	320	280	18	25	CT022B
PCL6DN250A	DN 250	375	335	18	25	CT022B
PCL6DN300A	DN 300	440	395	22	25	CT022B
PCL6DN350A	DN 350	490	445	22	25	CT022B
PCL6DN400A	DN 400	540	495	22	10	CT022B
PCL6DN500A	DN 500	645	600	22	10	CT022B
PCL6DN600A	DN 600	755	705	24	10	CT022B

DIN - PN 10 Range

Part Number	Nominal Pipe Size	Outside Diameter	Bolt Circle Diameter	Bolt Hole Size	Std Pack Qty	Cable Tie Part Number
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT022B
PCL10162540DN15A	DN 15	95	65	14	50	CT022B
PCL10162540DN20A	DN 20	105	75	14	50	CT022B
PCL10162540DN25A	DN 25	115	85	14	50	CT022B
PCL10162540DN32A	DN 32	140	100	18	50	CT022B
PCL10162540DN40A	DN 40	150	110	18	50	CT022B
PCL10162540DN50A	DN 50	165	125	18	50	CT022B
PCL1016DN65A	DN 65	185	145	18	50	CT022B
PCL1016DN80A	DN 80	200	160	18	50	CT022B
PCL1016DN100A	DN 100	220	180	18	50	CT022B
PCL1016DN125A	DN 125	250	210	18	50	CT022B
PCL1016DN150A	DN 150	285	240	22	25	CT022B
PCL10DN200A	DN 200	340	295	22	25	CT022B
PCL10DN250A	DN 250	395	350	20	25	CT022B
PCL10DN300A	DN 300	445	400	22	25	CT022B
PCL10DN350A	DN 350	505	460	22	25	CT022B
PCL10DN400A	DN 400	565	515	26	10	CT022B
PCL10DN500A	DN 500	670	620	26	10	CT022B
PCL10DN600A	DN 600	780	725	27	10	CT022B

DIN - PN 16 Range

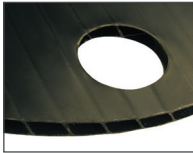
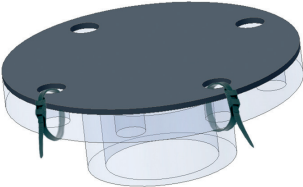
Part Number	Nominal Pipe Size	Outside Dia.	Bolt Circle Dia.	Bolt Hole Size	Std Pack Qty	Cable Tie Part Number
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT022B
PCL10162540DN15A	DN 15	95	65	14	50	CT022B
PCL10162540DN20A	DN 20	105	75	14	50	CT022B
PCL10162540DN25A	DN 25	115	85	14	50	CT022B
PCL10162540DN32A	DN 32	140	100	18	50	CT022B
PCL10162540DN40A	DN 40	150	110	18	50	CT022B
PCL10162540DN50A	DN 50	165	125	18	50	CT022B
PCL1016DN65A	DN 65	185	145	18	50	CT022B
PCL1016DN80A	DN 80	200	160	18	50	CT022B
PCL1016DN100A	DN 100	220	180	18	50	CT022B
PCL1016DN125A	DN 125	250	210	18	50	CT022B
PCL1016DN150A	DN 150	285	240	22	25	CT022B
PCL16DN200A	DN 200	340	295	22	25	CT022B
PCL16DN250A	DN 250	405	355	26	25	CT022B
PCL16DN300A	DN 300	460	410	26	25	CT022B
PCL16DN350A	DN 350	520	470	26	10	CT022B
PCL16DN400A	DN 400	580	525	30	10	CT022B
PCL16DN500A	DN 500	715	650	33	10	CT022B
PCL16DN600A	DN 600	840	770	33	10	CT022B

DIN - PN 25 Range

Part Number	Nominal Pipe Size	Outside Dia.	Bolt Circle Dia.	Bolt Hole Size	Std Pack Qty	Cable Tie Part Number
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT025B
PCL10162540DN15A	DN 15	95	65	14	50	CT025B
PCL10162540DN20A	DN 20	105	75	14	50	CT025B
PCL10162540DN25A	DN 25	115	85	14	50	CT025B
PCL10162540DN32A	DN 32	140	100	18	50	CT025B
PCL10162540DN40A	DN 40	150	110	18	50	CT025B
PCL10162540DN50A	DN 50	165	125	18	50	CT025B
PCL2540DN65A	DN 65	185	145	18	50	CT025B
PCL2540DN80A	DN 80	200	160	18	50	CT025B
PCL2540DN100A	DN 100	235	190	22	50	CT025B
PCL2540DN125A	DN 125	270	220	26	25	CT025B
PCL2540DN150A	DN 150	300	250	26	25	CT025B
PCL25DN200A	DN 200	375	320	30	25	CT025B
PCL25DN250A	DN 250	450	385	33	25	CT025B
PCL25DN300A	DN 300	515	450	33	10	CT025B
PCL25DN350A	DN 350	580	510	36	10	CT025B
PCL25DN400A	DN 400	660	585	39	10	CT025B
PCL25DN500A	DN 500	755	670	42	10	CT025B
PCL25DN600A	DN 600	845	770	36	10	CT025B

DIN - PN 40 Range

Part Number	Nominal Pipe Size	Outside Dia.	Bolt Circle Dia.	Bolt Hole Size	Std Pack Qty	Cable Tie Part Number
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT025B
PCL10162540DN15A	DN 15	95	65	14	50	CT025B
PCL10162540DN20A	DN 20	105	75	14	50	CT025B
PCL10162540DN25A	DN 25	115	85	14	50	CT025B
PCL10162540DN32A	DN 32	140	100	18	50	CT025B
PCL10162540DN40A	DN 40	150	110	18	50	CT025B
PCL10162540DN50A	DN 50	165	125	18	50	CT025B
PCL2540DN65A	DN 65	185	145	18	50	CT025B
PCL2540DN80A	DN 80	200	160	18	50	CT025B
PCL2540DN100A	DN 100	235	190	22	50	CT025B
PCL2540DN125A	DN 125	270	220	26	25	CT025B
PCL2540DN150A	DN 150	300	250	26	25	CT025B
PCL40DN200A	DN 200	375	320	30	25	CT025B
PCL40DN250A	DN 250	450	385	33	25	CT025B
PCL40DN300A	DN 300	515	450	33	10	CT025B
PCL40DN350A	DN 350	580	510	36	10	CT025B
PCL40DN400A	DN 400	660	585	39	10	CT025B
PCL40DN500A	DN 500	755	670	42	10	CT025B



Cable ties fastened through bolt holes secure disc to flange



FLANGE PROTECTOR FASTENERS

CTSS

Stainless Steel Locking Tie

Specifications:

- Material: See Table
- Temperature Range: -112°F to 1000°F (-80°C to 538°C)

Features:

- Self locking, can be installed by hand
- Excellent resistance to chemicals
- 304 Stainless Steel is an economical choice for light duty applications
- 316 Stainless Steel has superior corrosion resistance for rugged conditions



Item No.		Length		Width		Tensile Strength		Pack Qty.	Bulk Pack Qty.
304 Stainless Steel	316 Stainless Steel	In	mm	In	mm	Lbs	N		
CTSS0152A	CTSS0152B	6.000	152	0.181	4.6	96	427	1	100
CTSS0201A	CTSS0201B	7.910	201	0.181	4.6	96	427	1	100
CTSS0360A	CTSS0360B	14.170	360	0.181	4.6	96	427	1	100
CTSS0520A	CTSS0520B	20.500	520	0.181	4.6	96	427	1	100
CTSS0679A	CTSS0679B	26.730	679	0.181	4.6	96	427	1	100
CTSS2201A	CTSS2201B	7.910	201	0.311	7.9	242	1076	1	100
CTSS2362A	CTSS2362B	14.250	362	0.311	7.9	242	1076	1	100
CTSS2520A	CTSS2520B	20.500	520	0.311	7.9	242	1076	1	100
CTSS2679A	CTSS2679B	26.750	679	0.311	7.9	242	1076	1	100
CTSS2840A	CTSS2840B	33.000	838	0.311	7.9	242	1076	1	100

CTCS

PVC Coated Stainless Steel Cable Tie

Specifications:

- Material 316 Grade Stainless Steel with Black PVC coating
- Temperature Range: -112°F to 302°F (-80°C - 150°C)

Features:

- Coated version offers edge protection and prevents corrosion between metals



Item No.	Length		Width		Max Bundle Ø		Tensile Strength		Pack Qty.	Bulk Pack Qty.
	In	mm	In	mm	In	mm	Lbs	N		
CTCS0150B	5.91	150.0	0.181	4.6	1.18	30.0	112.5	500	1	100
CTCS0200B	7.87	200.0	0.181	4.6	1.97	50.0	112.5	500	1	100
CTCS0360B	14.17	360.0	0.181	4.6	3.94	100.0	112.5	500	1	100
CTCS0520B	20.47	520.0	0.181	4.6	6.14	156.0	112.5	500	1	100
CTCS0680B	26.77	680.0	0.181	4.6	8.15	207.0	112.5	500	1	100
CTCS1200B	7.87	200.0	0.311	7.9	1.97	50.0	250.8	1115	1	100
CTCS1360B	14.17	360.0	0.311	7.9	3.94	100.0	250.8	1115	1	100
CTCS1520B	20.47	520.0	0.311	7.9	6.14	156.0	250.8	1115	1	100
CTCS1680B	26.77	680.0	0.311	7.9	8.15	207.0	250.8	1115	1	100
CTCS1840B	33.07	840.0	0.311	7.9	9.84	250.0	250.8	1115	1	100

CTLS / CTLC

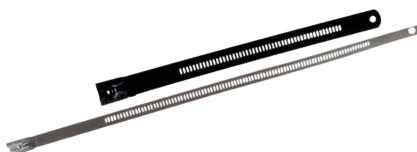
Stainless Steel Ladder Tie

Specifications:

- Material: 316 Grade Stainless Steel available with Black PVC coating
- Uncoated Temperature Range: -112°F to 1000°F (-80°C - 538°C)
- Coated Temperature Range: Operating Temperature: -40°F (-40°C) to 250°F (120°C) {Intermittent up to 300°F (150°C)}

Features:

- Self locking design is easy to install
- Coated version offers protection between different metals
- Tensile strength up to 454 lbs



Item No.		Length		Width		Max Bundle Ø		Tensile Strength		Pack Qty.	Bulk Pack Qty.
Uncoated	Coated	In	mm	In	mm	In	mm	Lbs	N		
CTLS0150B	CTLC0150B	5.910	150.0	0.280	7.0	1.890	48.0	225	1000	1	100
CTLS0225B	CTLC0225B	8.860	225.0	0.280	7.0	2.800	71.0	225	1000	1	100
CTLS0300B	CTLC0300B	11.810	300.0	0.280	7.0	3.820	97.0	225	1000	1	100
CTLS0450B	CTLC0450B	17.720	450.0	0.280	7.0	5.710	145.0	225	1000	1	100
CTLS0610B	CTLC0610B	24.020	610.0	0.280	7.0	7.600	193.0	225	1000	1	100
CTLS1150B	CTLC1150B	5.910	150.0	0.470	12.0	1.890	48.0	454	2019	1	100
CTLS1225B	CTLC1225B	8.860	225.0	0.470	12.0	2.800	71.0	454	2019	1	100
CTLS1300B	CTLC1300B	11.810	300.0	0.470	12.0	3.820	97.0	454	2019	1	100
CTLS1450B	CTLC1450B	17.720	450.0	0.470	12.0	5.710	145.0	454	2019	1	100
CTLS1610B	CTLC1610B	24.020	610.0	0.470	12.0	7.600	193.0	454	2019	1	100



DURABLE PROTECTION

Protects
Separates
Reduces
Damage &
Labor Costs





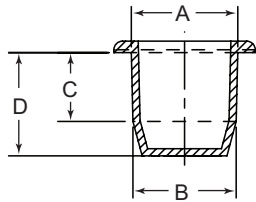
FLS Series
Flange Protector Retainer Plugs

Specifications:

- Material: PVC
- Color: Black

Features:

- Used to secure the PRB, PCF and RFL Series on pages 14-16.



Item No.	To Fit Bolt Hole	A	B	C	D	Pack Qty.	Bulk Pack Qty.
	In	In	In	In	In		
FLS005B	5/8	0.640	0.625	0.750	1.130	1	3000
FLS010B	3/4	0.775	0.755	0.750	1.130	1	2000
FLS015B	7/8	0.900	0.880	0.820	1.200	1	2500
FLS020B	1	1.020	1.010	0.990	1.370	1	1500
FLS025B	1-1/8	1.165	1.135	1.000	1.380	1	1000
FLS030B	1-1/4	1.275	1.260	1.120	1.490	1	1000
FLS035B	1-3/8	1.410	1.390	1.360	1.740	1	750
FLS040B	1-1/2	1.545	1.510	1.370	1.730	1	750

Item No.	To Fit Bolt Hole	A	B	C	D	Pack Qty.	Bulk Pack Qty.
	In	In	In	In	In		
FLS045B	1-5/8	1.665	1.645	1.360	1.730	1	500
FLS050B	1-3/4	1.770	1.750	1.360	1.700	1	400
FLS055B	1-7/8	1.905	1.875	1.630	2.000	1	300
FLS060B	2	2.035	2.000	1.630	2.000	1	250
FLS065B	2-1/8	2.160	2.125	1.630	2.000	1	200
FLS070B	2-3/8	2.410	2.375	1.750	2.130	1	100
FLS075B	2-5/8	2.660	2.625	1.750	2.130	1	50
FLS080B	3-5/8	3.660	3.625	1.750	2.130	1	50

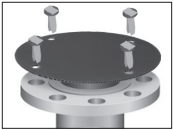
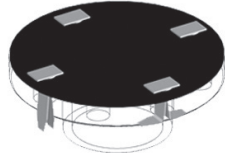
PIN & WAS Series
Pins & Washers

Specifications:

- Material: Refer to Chart
- Color: Refer to Chart

Features:

- Pins and washers are used together to securely fasten the flange protectors to the flange
- Used to secure PRB, PCF, RFL Series on pages 14-16.

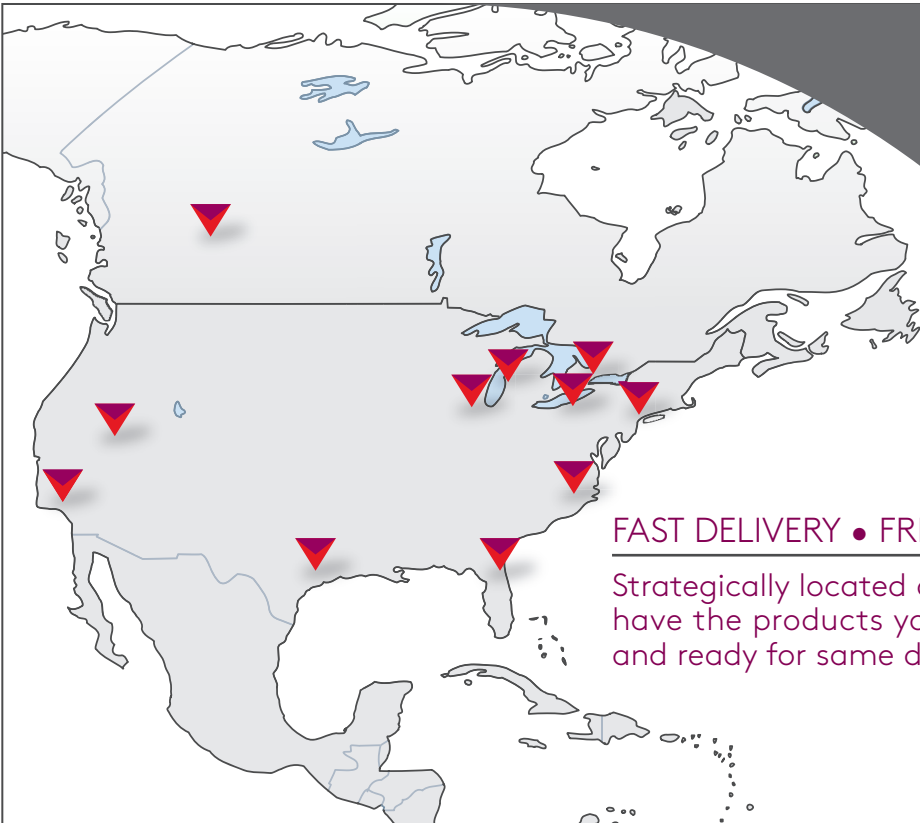


PIN Series

Item No.	Size In	Material & Color	Pack Qty.	Bulk Pack Qty.
PIN2-1/4B	2.250	GALVANIZED STEEL	1	1000
PIN3-1/4B	3.250	GALVANIZED STEEL	1	1000

WAS Series

Item No.	Size In	Material & Color	Pack Qty.	Bulk Pack Qty.
WAS1-3/8A	1.375	HDPE Black	1	800
WAS1-3/4A	1.750	HDPE Black	1	800
WAS1-3/4B	1.750	GALVANIZED STEEL	1	2000



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FULL-FACE FLANGE PROTECTORS

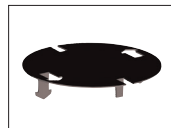
OFP Series
Self-Locking Protectors

Specifications:

- Meets ANSI B16.5 and ASME B16.47 specification
- Material: Polyethylene
- Color: Black

Features:

- Fast, easy installation and removal
- Four Integral arrows push thru the flange bolt holes to fasten the OFP firmly in place
- Requires no fasteners



Nominal Pipe Size (In)	Class Pressure Rating	Actual (OD) In	Item No.	Pack Qty.	Bulk Pack Qty.
1/2	150	3.500	OFP150-1/2A	1	50
1/2	300	3.750	OFP300-1/2A	1	500
1/2	400	3.750	OFP300-1/2A	1	500
1/2	600	3.750	OFP300-1/2A	1	500
3/4	150	3.875	OFP150-3/4A	1	500
3/4	300	4.625	OFP300-3/4A	1	300
3/4	400	4.625	OFP300-3/4A	1	300
3/4	600	4.625	OFP300-3/4A	1	300
1	150	4.250	OFP150-1A	1	50
1	300	4.875	OFP300-1A	1	300
1	400	4.875	OFP300-1A	1	300
1	600	4.875	OFP300-1A	1	300
1-1/4	300	5.250	OFP300-1-1/4A	1	50
1-1/4	400	5.250	OFP300-1-1/4A	1	50
1-1/4	600	5.250	OFP300-1-1/4A	1	50
1-1/2	150	5.000	OFP150-1-1/2A	1	200
1-1/2	300	6.125	OFP300-1-1/2A	1	200
2	150	6.000	OFP150-2A	1	50
2	300	6.500	OFP300-2A	1	50
2-1/2	150	7.000	OFP150-2-1/2A	1	50
2-1/2	300	7.500	OFP300-2-1/2A	1	50
3	150	7.500	OFP150-3A	1	50
3	300	8.250	OFP300-3A	1	50
3-1/2	150	8.500	OFP150-3-1/2A	1	200
3-1/2	300	9.000	OFP300-3-1/2A	1	50

Nominal Pipe Size (In)	Class Pressure Rating	Actual (OD) In	Item No.	Pack Qty.	Bulk Pack Qty.
4	150	9.000	OFP150-4A	1	50
4	300	10.000	OFP300-4A	1	50
5	150	10.000	OFP150-5A	1	50
5	300	11.000	OFP300-5A	1	25
6	150	11.000	OFP150-6A	1	25
6	300	12.500	OFP300-6A	1	50
8	150	13.500	OFP150-8A	1	50
8	300	15.000	OFP300-8A	1	50
10	150	16.000	OFP150-10A	1	50
10	300	17.500	OFP300-10A	1	50
12	150	19.000	OFP150-12A	1	50
12	300	20.500	OFP300-12A	1	10
14	150	21.000	OFP150-14A	1	10
14	300	23.000	OFP300-14A	1	10
16	150	23.500	OFP150-16A	1	10
16	300	25.500	OFP300-16A	1	10
18	150	25.000	OFP150-18A	1	10
18	300	28.000	OFP300-18A	1	10
20	150	27.500	OFP150-20A	1	10
20	300	30.500	OFP300-20A	1	10
22	150	29.500	OFP150-22A	1	10
24	150	32.000	OFP150-24A	1	10
24	300	36.000	OFP300-24A	1	10
30	150	38.750	OFP150-30A	1	10

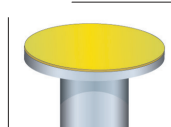
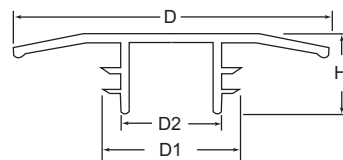
PI Series
Push-In Full-Face Protectors

Specifications:

- Material: Polyethylene
- Color: Yellow
- Meets ANSI B16.5 Class 150 flanges, DN2627-2638 and BS5504 flanges

Features:

- The flexible fins ensure a snug fit into the bore every time
- Requires no fasteners



Item No.	Nominal Pipe Size		D2		D1		D		H		Pack Qty.	Bulk Pack Qty.
	In	DN	In	mm	In	mm	In	mm	In	mm		
PI10A	3/8	DN 10	0.275	6.98	0.555	14.09	3.385	85.97	0.606	15.39	1	700
PI15A	1/2	DN 15	0.358	9.09	0.755	19.17	3.543	89.99	0.633	16.07	1	500
PI20A	3/4	DN 20	0.563	14.30	0.944	23.97	3.937	99.99	0.830	21.08	1	350
PI25A	1	DN 25	0.724	18.38	1.177	29.89	4.330	109.98	0.826	20.98	1	600
PI32A	1-1/4	DN 32	0.885	22.47	1.539	39.09	5.354	135.99	0.787	19.98	1	500
PI40A	1-1/2	DN 40	1.181	29.99	1.771	44.98	5.748	145.99	0.826	20.98	1	200
900335	2	DN 50	1.574	39.97	2.204	55.98	6.299	159.99	0.799	20.29	1	100
PI65A	2-1/2	DN 65	2.086	52.98	2.834	71.98	7.126	181.00	0.807	20.49	1	200
900336	3	DN 80	2.660	67.50	3.346	84.98	7.720	196.00	0.980	24.80	1	75
900337	4	DN 100	3.500	88.90	4.290	108.9	8.500	215.90	0.980	24.80	1	100
PI125A	5	DN 125	4.370	110.99	5.275	133.98	9.685	245.99	1.027	26.08	1	70
900338	6	DN 150	5.330	135.30	6.340	161.0	11.023	279.98	1.380	35.00	1	36
900339	7	—	6.380	162.00	7.280	184.9	12.670	321.80	1.650	41.90	1	25
900340	8	DN 200	6.880	174.70	8.268	210.0	13.230	336.00	1.620	41.10	1	10
900341	10	DN 250	9.060	230.10	10.315	262.0	15.350	389.80	1.580	40.10	1	10
PI300A	12	DN 300	11.181	283.99	12.559	318.99	17.716	449.98	1.909	48.48	1	5

LOWER COST FLANGE PROTECTORS

View the RFL, PCF & PRB series
on pages 14-17





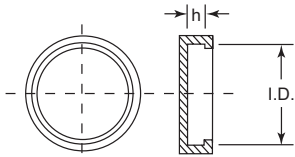
FF Series
Flexible Protectors

Specifications:

- Material: Flexible Polyethylene
- Color: Yellow
- Suitable for ANSI B16.5 Flanges

Features:

- Provides complete all-around flange protection including bolt holes
- Material is durable, yet flexible enough to provide an easy fit
- Requires no fasteners



Nominal Pipe Size (In)	Class Pressure Rating	Actual (I.D.) In	Height (In)	Item No.	Pack Qty.	Bulk Pack Qty.
1/2	150	3.500	0.441	FF31836A	1	500
1/2	300	3.750	0.559	FF31963A	1	500
1/2	400	3.750	0.559	FF31963A	1	500
1/2	600	3.750	0.559	FF31963A	1	500
3/4	150	3.940	0.480	FF31837A	1	250
3/4	300	4.618	0.618	FF31965A	1	100
3/4	400	4.618	0.618	FF31965A	1	100
3/4	600	4.618	0.618	FF31965A	1	100
1	150	4.250	0.559	FF31887A	1	600
1	300	4.881	0.689	FF31938A	1	400
1	400	4.881	0.689	FF31938A	1	400
1	600	4.881	0.689	FF31938A	1	400
1-1/4	150	4.618	0.618	FF31965A	1	100
1-1/4	300	5.251	0.748	FF34260A	1	40
1-1/2	150	5.000	0.689	FF110321A	1	300
1-1/2	300	6.118	0.811	FF31886A	1	250
2	150	6.000	0.752	FF31791A	1	200
2	300	6.515	0.885	FF31783A	1	150
2-1/2	150	7.000	0.882	FF32313A	1	100
2-1/2	300	7.500	1.000	FF31888A	1	100
3	150	7.500	0.940	FF31766A	1	125
3	300	8.250	1.118	FF31867A	1	50
3-1/2	150	8.500	0.940	FF34262A	1	75

Nominal Pipe Size (In)	Class Pressure Rating	Actual (I.D.) In	Height (In)	Item No.	Pack Qty.	Bulk Pack Qty.
3-1/2	300	9.000	1.189	FF34263A	1	50
4	150	9.000	0.940	FF31763A	1	75
4	300	10.000	1.250	FF31868A	1	30
5	150	10.000	0.941	FF34265A	1	30
5	300	11.000	1.378	FF34266A	1	35
6	150	11.000	1.000	FF31760A	1	50
6	300	12.500	1.437	FF31869A	1	25
8	150	13.500	1.118	FF31870A	1	30
8	300	15.000	1.618	FF31871A	1	10
10	150	16.000	1.189	FF31872A	1	35
10	300	17.500	1.878	FF31873A	1	24
12	150	19.090	1.181	FF31874A	1	25
12	300	20.500	2.000	FF31875A	1	10
14	150	21.000	1.382	FF31876A	1	10
14	300	23.000	2.118	FF31847A	1	10
16	150	23.500	1.441	FF31877A	1	10
16	300	25.500	2.248	FF31878A	1	6
18	150	25.000	1.559	FF31879A	1	8
18	300	28.000	2.378	FF31880A	1	10
20	150	27.500	1.689	FF31881A	1	50
20	300	30.500	2.500	FF31882A	1	10
24	150	32.000	1.882	FF31943A	1	8
24	300	36.000	2.748	FF32088A	1	5

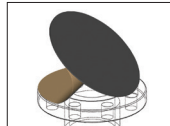
PG Series
Adhesive Peel & Stick Full-Face Protectors

Specifications:

- Meets ANSI B16.5 and ASME B16.47 specification
- Material: Polyethylene
- Color: Black

Features:

- 150 lb rating
- Adhesive backed, peel and stick design
- Full-face O.D. flange protection
- Special adhesive bonds tightly and leaves no residue under normal conditions
- Requires no fasteners



Item No.	Nominal Pipe Size In	Actual O.D. In	Pack Qty.	Bulk Pack Qty.
PG150-1/2A	1/2	3.500	1	50
PG150-3/4A	3/4	3.875	1	25
PG150-1A	1	4.250	1	50
PG150-1-1/4A	1-1/4	4.625	1	50
PG150-1-1/2A	1-1/2	5.000	1	50
PG150-2A	2	6.000	1	50
PG150-2-1/2A	2-1/2	7.000	1	50
PG150-3A	3	7.500	1	50
PG150-3-1/2A	3-1/2	8.500	1	25
PG150-4A	4	9.000	1	50
PG150-5A	5	10.000	1	50
PG150-6A	6	11.000	1	25
PG150-8A	8	13.500	1	25
PG150-10A	10	16.000	1	25
PG150-12A	12	19.000	1	25
PG150-14A	14	21.000	1	25
PG150-16A	16	23.500	1	25
PG150-18A	18	25.000	1	25
PG150-20A	20	27.500	1	10
PG150-24A	24	32.000	1	10
PG150-30A	30	38.750	1	10
PG150-36A	36	46.000	1	10



CODE 61 & 62 FLANGE PROTECTORS

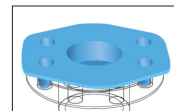
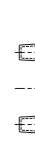
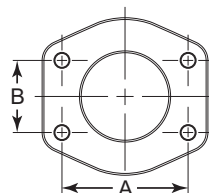
BFP & XP Series**SAE J518 Quick Fit Flange Protectors**

Specifications:

- Material: Polyethylene
- Color: Refer to Chart

Features:

- The BFP series are used to protect SAE Code 61 3000 PSI flanges
- The XP series are used to protect SAE Code 62 6000 PSI flanges
- Provides full coverage with lugs firmly positioned into bolt holes
- Requires no fasteners



Nominal Pipe Size (In)	Class Pressure Rating	Item No.	A In	B In	Color	Pack Qty.	Bulk Pack Qty.
1/2	3000	BFP1/2A	1.500	0.688	Blue	1	2000
1/2	3000	XP1/2A	1.594	0.718	Red	1	2000
3/4	3000	BFP3/4A	1.875	0.875	Blue	1	1000
3/4	6000	XP3/4A	2.000	0.937	Red	1	1000
1	3000	BFP1A	2.062	1.031	Blue	1	1000
1	6000	XP1A	2.250	1.093	Red	1	700
1-1/4	3000	BFP1-1/4A	2.312	1.188	Blue	1	700
1-1/4	6000	XP1-1/4A	2.625	1.250	Red	1	500
1-1/2	3000	BFP1-1/2A	2.750	1.406	Blue	1	450

Nominal Pipe Size (In)	Class Pressure Rating	Item No.	A In	B In	Color	Pack Qty.	Bulk Pack Qty.
1-1/2	6000	XP1-1/2A	3.125	1.437	Red	1	400
2	3000	BFP2A	3.062	1.688	Blue	1	400
2	6000	XP2A	3.812	1.750	Red	1	250
2-1/2	3000	BFP2-1/2A	3.500	2.000	Blue	1	300
3	3000	BFP3A	4.188	2.438	Blue	1	50
3-1/2	3000	BFP3-1/2A	4.750	2.750	Blue	1	50
4	3000	BFP4A	5.125	3.062	Blue	1	50
5	3000	BFP5A	6.000	3.625	Blue	1	30

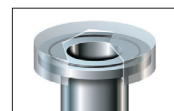
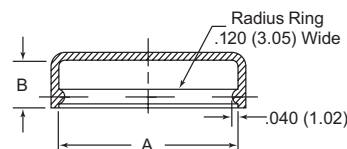
Q & HP Series**SAE J518 Split-Flange Covers**

Specifications:

- Material: Polyethylene
- Color: Natural

Features:

- The Q Series are used on SAE Code 61 3000 PSI high pressure flanges
- The HP Series are used on SAE Code 62 6000 PSI high pressure flanges
- Protects machined surfaces on split flanged connections
- Manufactured in a natural translucent polyethylene so the O-ring assembled on the flange remains visible thru the cap
- The internal-locking bead design provides a secure fit
- Requires no fasteners



Nominal Flange Size (In)	Code	Class Pressure Rating	Item No.	A In	B In	Pack Qty.	Bulk Pack Qty.
1/2	61	3000	Q1A	1.190	0.390	1	2500
5/8	61	3000	Q2A	1.330	0.415	1	4000
3/4	61	3000	Q3A	1.510	0.435	1	3000
3/4	62	6000	HP12A	1.610	0.546	1	2200
1	61	3000	Q4A	1.760	0.465	1	2000
1	62	6000	HP16A	1.860	0.578	1	1600
1-1/4	61	3000	Q5A	1.971	0.465	1	1700
1-1/4	62	6000	HP20A	2.110	0.609	1	1200

Nominal Flange Size (In)	Code	Class Pressure Rating	Item No.	A In	B In	Pack Qty.	Bulk Pack Qty.
1-1/2	61	3000	Q6A	2.385	0.465	1	1200
1-1/2	62	6000	HP24A	2.485	0.690	1	750
2	61	3000	Q7A	2.810	0.585	1	750
2	62	6000	HP32A	3.110	0.690	1	500
2-1/2	61	3000	Q8A	3.310	0.500	1	550
4	61	3000	Q9A	4.000	0.500	1	500
4-1/2	61	3000	Q11A	4.500	0.570	1	250
5	61	3000	Q12A	5.000	0.570	1	250

DON'T FORGET YOUR FITTINGS!

R Series
Square Head
NPT Threads



TSSP Series
Positive Sealing for
Metric/BSP Threads



PFP Series
NPT Threads
(O-Ring Option)



BL Nylon Series
Tough/Higher Temp
For Standard Threads
(O-Ring Option)



G Series
UNF/JIC Threads for
Flared/Flareless Fittings



TF Series
Flat Faced O-Ring
Hydraulic Fitting Threads



BLM Series
Molded O-Ring Unified
Standard Threads



DC Series
UNJ/UNJS Threads



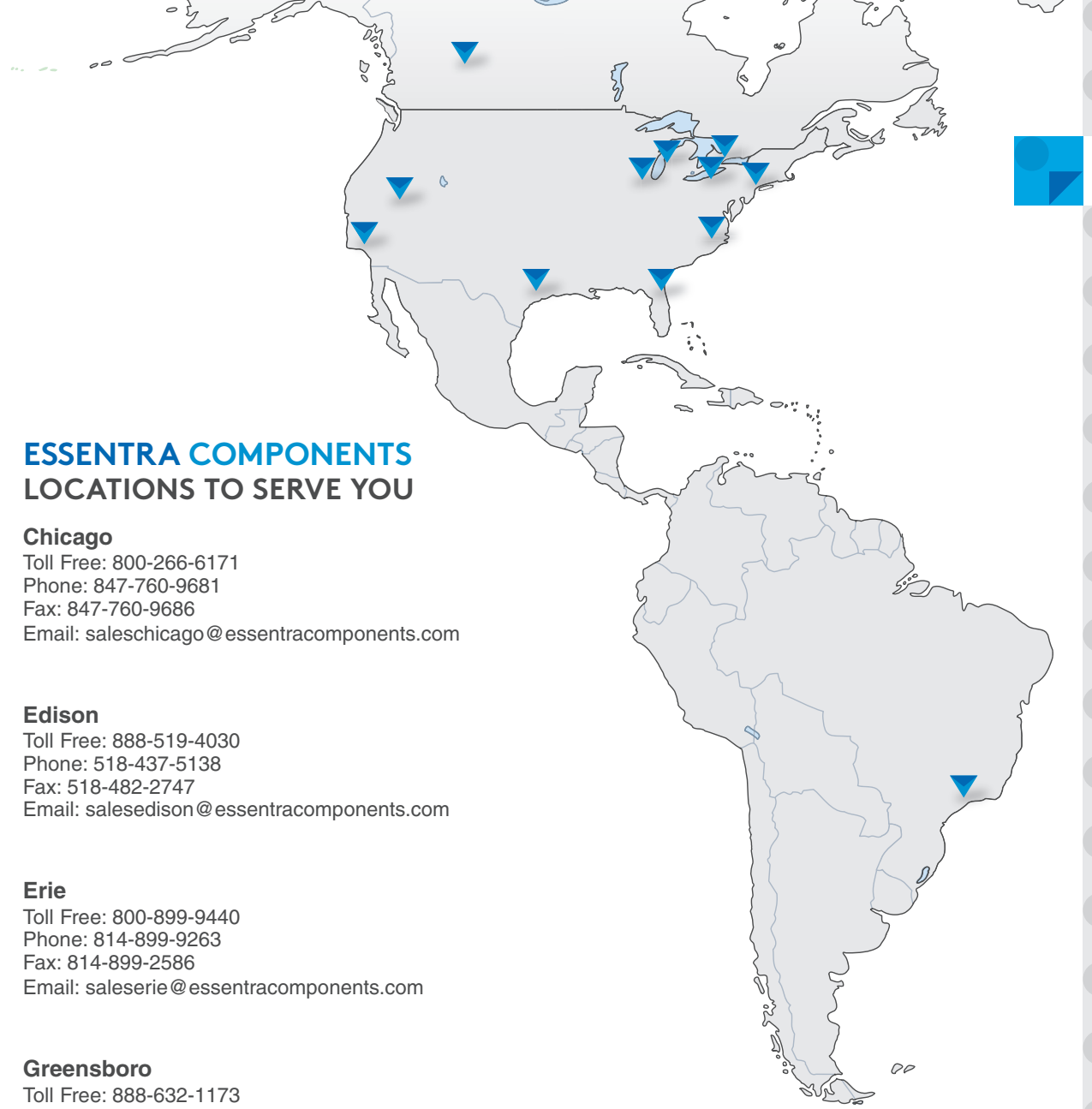
EZP Series
Easy Pull for Unified
Standard/Metric Threads



UN Series
Quick Fit for Standard
JIC/Metric/BSP Threads



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