



Preferred Parts

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ELECTRONIC DOCUMENT IN THE VIEWER IS CONTROLLED. PRINTED COPY IS AN UNCONTROLLED DOCUMENT.

NON-METALLIC CAPS, PLUGS AND BUSHINGS

GENERAL SPECIFICATIONS

GENERAL: There are no national or international standards for these type caps, plugs or bushings. These specifications are based upon user requirements and available commercial products.

PREFERRED PARTS POLICY: All cap, plug and bushing types detailed on the following pages of this section are considered preferred parts when purchased in manufacturers standard color and material. Manufacturers standard color and material are designated on each detail page.

COLORS: Optional colors, when required, will be designated on part number pages.

MATERIALS: Low density polyethylene
High density polyethylene
Polypropylene
Ethylene vinyl acetate
Nylon
As designated on each detail page

DIMENSIONS: All dimensions in this standard are in inches.

TOLERANCES: Three decimal places
Less than 1.000 - ± 0.010
Greater than 1.000 - ± 0.010 per inch
Two decimal places
Less than 1.00 - ± 0.02
Greater than 1.00 - ± 0.02 per inch

WORKMANSHIP: Caps and plugs shall be free from mold seams and excess material attachment and other defects that might affect their serviceability.

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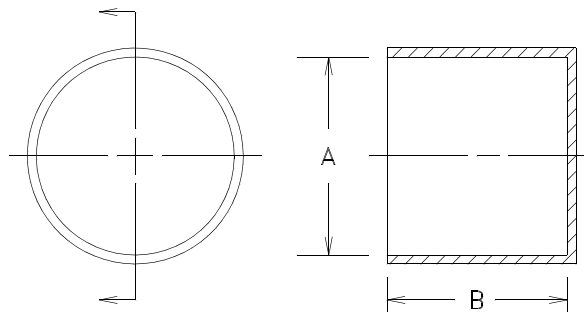
NON-METALLIC CAPS, PLUGS AND BUSHINGS

Sleeve Caps for Tubing

Material: Low density polyethylene

Color: Red

Vendor: Caplugs



Caplug No.	To Fit Tube Size	Inside Length
	A	B
SC-1/8	1/8 - .125	.59
SC-3/16-10	3/16 - .188	.59
SC-1/4-14	1/4 - .250	.88
SC-5/16	5/16 - .312	.88
SC-3/8	3/8 - .375	.88
SC-7/16-8	7/16 - .438	.50
SC-7/16-14	7/16 - .438	.88
SC-1/2-8	1/2 - .500	.50
SC-1/2-14	1/2 - .500	.88
SC-9/16-9	9/16 - .562	.56
SC-9/16-14	9/16 - .562	.88
SC-5/8	5/8 - .625	.88
SC-11/16	11/16 - .625	.88
SC-3/4	3/4 - .750	.88
SC-13/16	13/16 - .812	.88
SC-7/8	7/8 - .875	.88
SC-1	1 - 1.000	1.00
SC-1-1/16	1-1/16 - 1.062	1.00
SC-1-3/16	1-3/16 - 1.188	1.00
SC-1-1/4	1-1/4 - 1.250	1.00
SC-1-5/16	1-5/16 - 1.312	1.00
SC-1-3/8	1-3/8 - 1.375	1.00
SC-1-1/2	1-1/2 - 1.500	1.00
SC-1-5/8	1-5/8 - 1.625	1.00
SC-1-3/4	1-3/4 - 1.750	1.00
SC-1-7/8	1-7/8 - 1.875	1.00
SC-2	2 - 2.000	.88
SC-2-1/4	2-1/4 - 2.250	.88
SC-2-3/8	2-3/8 - 2.375	.88
SC-2-1/2	2-1/2 - 2.500	.88

** See Section J-081 for Part Numbers **

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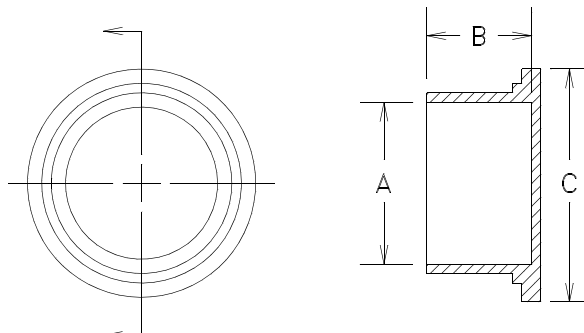
NON-METALLIC CAPS, PLUGS AND BUSHINGS

Sleeve Caps for External Threads

Material: Low density polyethylene

Color: Red

Vendors: Caplugs
Niagara Plastics



Caplug No.	Niagara No.	To Fit Thread Size	Inside Length	Flange Diameter
		A	B	C
EC-4	C-2	1/4 - .25	.50	.48
EC-5		5/16 - .31	.56	.55
EC-6		3/8 - .38	.50	.62
EC-8		1/2 - .50	.50	.73
EC-9		9/16 - .56	.44	.78
EC-10	C-6	5/8 - .62	.50	.84
EC-12	C-8	3/4 - .75	.50	.96
EC-14	C-10	7/8 - .88	.50	1.10
EC-16	C-12	1 - 1.00	.50	1.20
EC-18	C-14	1-1/8 - 1.12	.56	1.32
EC-19	C-16	1-3/16 - 1.19	.56	1.40
EC-20	C-18	1-1/4 - 1.25	.56	1.46
EC-22	C-20	1-3/8 - 1.38	.56	1.59
EC-23	C-22	1-7/16 - 1.44	.56	1.65
EC-24	C-24	1-1/2 - 1.50	.56	1.68
EC-25	C-26	1-9/16 - 1.56	.50	1.75
EC-26		1-5/8 - 1.62	.56	1.93
EC-28		1-3/4 - 1.75	.56	1.97
EC-32		2 - 2.00	.56	2.20
EC-36		2-1/4 - 2.25	.62	2.43
EC-40	C-32	2-1/2 - 2.50	.62	2.68
EC-44	C-34	2-3/4 - 2.75	.62	2.96
EC-48	C-36	3 - 3.00	.73	3.19
EC-64	C-38	4 - 4.00	1.00	4.16
EC-80	C-40	5 - 5.00	1.25	5.12

** See Section J-081 for Part Numbers **

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NON-METALLIC CAPS, PLUGS AND BUSHINGS

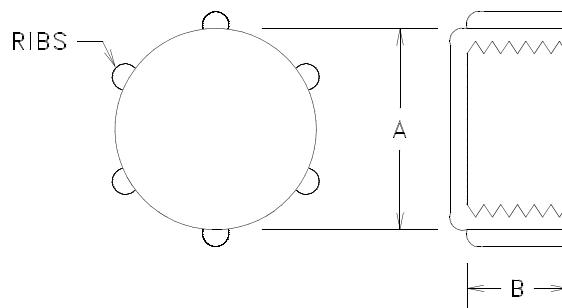
Threaded Caps - Machine Screw Threads

Material: Ethylene Vinyl Acetate

Color: Yellow

Vendor: Robroy Industries

Caps will fit NS and NF class 1, 2 and 3 standard threads.
Caps are ribbed and impervious to oils, greases, alkalies
and other common corrodents.



Robroy Part No.	Thread Size	Outside Diameter	Inside Length
		A	B
M-163	5/16-24 - .312	.44	.38
M-164	3/8-24 - .375	.50	.38
M-167	7/16-20 - .438	.59	.38
M-170	1/2-20 - .500	.69	.38
M-173	9/16-18 - .562	.75	.38
M-206	9/16-18 - .562	.75	.56
M-181	3/4-16 - .750	.94	.44
M-220	3/4-16 - .750	.94	.69
M-195	13/16-16 - .812	1.00	.50
M-186	7/8-14 - .875	1.06	.44
M-604	7/8-14 - .875	1.06	.69
M-187	7/8-18 - .875	1.06	.44
M-244	1-14 - 1.000	1.16	.50
M-229	1-1/16-12 - 1.062	1.25	.50
M-261	1-7/8-12 - 1.875	2.06	.56

** See Section J-082 for Part Numbers **

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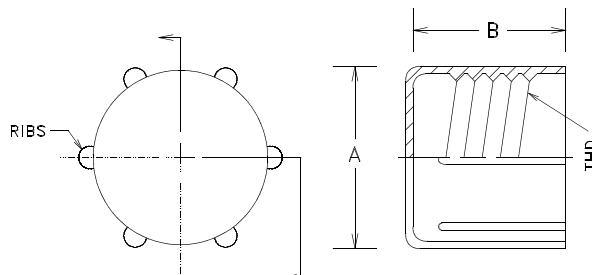
NON-METALLIC CAPS, PLUGS AND BUSHINGS

Threaded Caps - Type AN and SAE Threads

Material: Low density polyethylene

Color: Red

Vendor: Caplugs



Caplug No.	Nominal Tubing Size	To Fit Thread	Outside Diameter	Inside Length
			A	B
CD-3	3/16	3/8-24 - .375	.44	.47
CD-4	1/4	7/16-20 - .438	.50	.47
CD-5	5/16	1/2-20 - .500	.56	.47
CD-6	3/8	9/16-18 - .562	.62	.53
CD-8	1/2	3/4-16 - .750	.81	.57
CD-10	5/8	7/8-14 - .875	.94	.68
CD-11	--	1-14 - 1.000	1.06	.78
CD-12	3/4	1-1/16-12 - 1.062	1.12	.75
CD-14	7/8	1-3/16-12 - 1.187	1.25	.94
CD-16	1	1-5/16-12 - 1.312	1.37	.84
CD-20	1-1/4	1-5/8-12 - 1.625	1.69	.91
CD-24	1-1/2	1-7/8-12 - 1.875	1.94	1.00

** See Section J-082 for Part Numbers **

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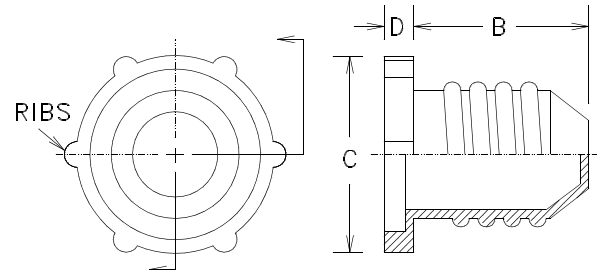
NON-METALLIC CAPS, PLUGS AND BUSHINGS

Threaded Flared Fitting Plugs

Material: Polyethylene

Color: Red

Vendors: Caplugs
Alliance Plastics
Niagara Plastics
Robroy Industries



Caplug No.	Alliance No.	Niagara No.	Robroy No.	Nominal Tubing Size	To Fit Thread	B	C	D
PD-20	T-1	HF-2	MP-205	1/8	5/16-24 - .312	.44	.44	.18
PD-30	T-2	HF-4	MP-209	3/16	3/8-24 - .375	.46	.50	.18
PD-40	T-3	HF-6	MP-213	1/4	7/16-20 - .438	.53	.62	.19
PD-50	T-4	HF-8	MP-217	5/16	1/2-20 - .500	.53	.68	.25
PD-60	T-5	HF-10	MP-221	3/8	9/16-18 - .562	.50	.81	.25
PD-80	T-7	HF-12	MP-229	1/2	3/4-16 - .750	.75	.94	.25
PD-100	T-8	HF-14	MP-233	5/8	7/8-14 - .875	.87	1.06	.25
PD-120	T-9	HF-16	MP-241	3/4	1-1/16-12 - 1.062	.89	1.25	.25
PD-160	T-12	HF-20	MP-253	1	1-5/16-12 - 1.312	.93	1.50	.25
PD-240	--	HF-28	--	1-1/2	1-7/8-12 - 1.875	1.15	2.31	.31
PD-280	--	--	--	1-3/4	2-1/4-12 - 2.25	1.31	2.63	.31
PD-320	--	--	--	2	2-1/2-12 - 2.5	1.31	2.94	.31

** See Section J-083 for Part Numbers **

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NON-METALLIC CAPS, PLUGS AND BUSHINGS

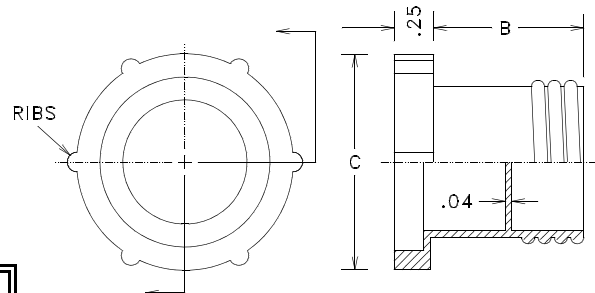
FITTING AND PORT PLUGS

SAE Straight Thread Flareless Tube and Nut Plugs

Material: Low density polyethylene

Color: Red

Vendor: Caplugs



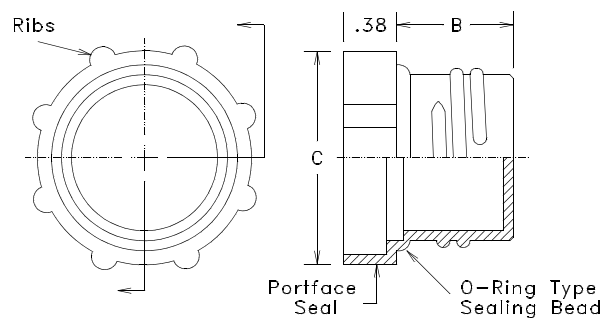
Caplug No.	Nominal Tubing Size	To Fit Thread	B	C
PDE-4	1/4	7/16-20 - .437	.40	.56
PDE-5	5/16	1/2-20 - .500	.46	.63
PDE-6	3/8	9/16-18 - .562	.48	.68
PDE-8	1/2	3/4-16 - .750	.54	.87
PDE-10	5/8	7/8-14 - .875	.62	1.00
PDE-12	3/4	1-1/16-12 - 1.062	.64	1.25
PDE-16	1	1-5/16-12 - 1.312	.72	1.50

SAE Straight Thread O-Ring Port Plugs

Material: High density polyethylene

Color: Red

Vendor: Caplugs



Caplug No.	To Fit Thread	B	C
PDO - 104	7/16 - 20	.32	.65
PDO - 105	1/2 - 20	.32	.72
PDO - 106	9/16 - 18	.36	.78
PDO - 108	3/4 - 16	.40	.98
PDO - 110	7/8 - 14	.45	1.11
PDO - 112	1-1/16 - 12	.62	1.31
PDO - 116	1-5/16 - 12	.62	1.56
PDO - 120	1-5/8 - 12	.62	1.88

** See Section J-083 for Part Numbers **

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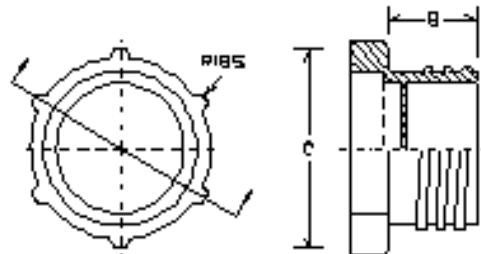
NON-METALLIC CAPS, PLUGS AND BUSHINGS

Threaded Plugs for Flat Faced O-Ring Fittings

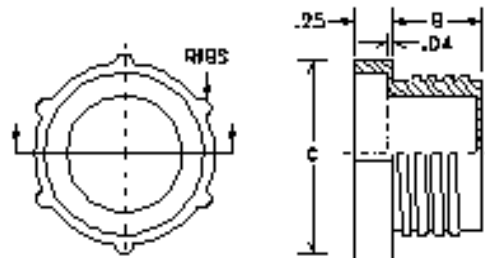
Material: Low density polyethylene

Color: Red

Vendor: Caplugs



PDF 40, 80 and 160



PDF 60, 100 and 200

Caplug No.	Nominal Tubing Size	To Fit Thread	B	C
PDE - 6 (PDF-40)	1/4	9/16-18 - .562	.48	.68
PDF - 60	3/8	11/16-16 - .687	.44	.87
PDF - 80	1/2	13/16-16 - .812	.50	.94
PDF - 100	5/8	1-14 - 1.000	.59	1.16
PDF - 120	3/4	1-3/16-12 - 1.187	.63	1.33
PDF - 160	1	1-7/16-12 - 1.437	.75	1.63
---	1-1/4	1-11/16-12 - 1.687	--	--
---	1-1/2	2-12 - 2.000	--	--

** See Section J-083 for Part Numbers **

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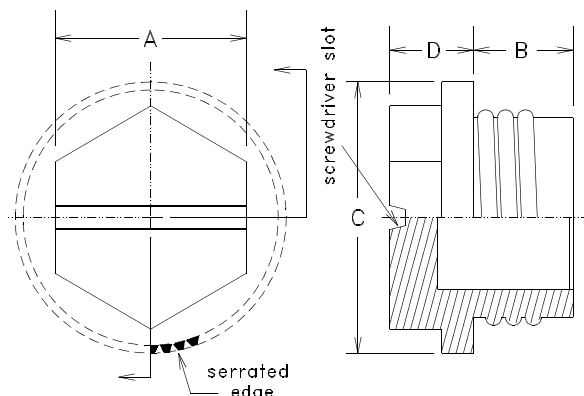
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NON-METALLIC CAPS, PLUGS AND BUSHINGS

Threaded Machine Screw Plugs

Material: Polyethylene

Vendors: Caplugs - Red
Niagara Plastics Co. - Red
Robroy Industries - Red
Alliance Plastics - Blue



Caplug No.	Alliance No.	Niagara No.	Robroy No.	To Fit Thread	A	B	C	D
RP-7-20	B-3	TF-7-1	FP-104	7/16-20 - .438	.43	.30	.62	.28
RP-8-20	B-4			1/2-20 - .500	.50	.32	.69	.25
	B-5		FP-108	9/16-18 - .562	.50	.35	.78	.28
RP-12	B-7	TF-12	FP-115	3/4-16 - .750	.68	.44	.94	.28
RP-14	B-8	TF-14	FP-120	7/8-14 - .875	.75	.50	1.06	.34
	B-11		FP-124	1-1/16-12 - 1.062	.88	.62	1.31	.34
	B-10	TF-17-2	FP-125	1-1/16-14 - 1.062	.88	.62	1.31	.34

** See Section J-084 for Part Numbers **

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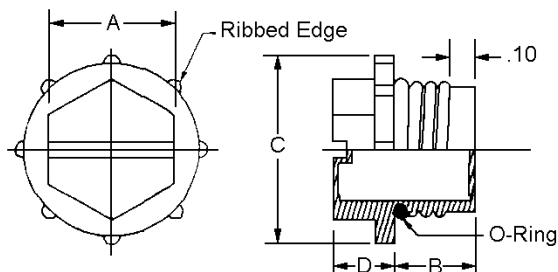
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NON-METALLIC CAPS, PLUGS AND BUSHINGS

Threaded Plug with O-Ring

Material: Polypropylene**Color:** Yellow**Vendor:** Alliance Plastics Inc.

Alliance No.	To Fit Thread	A	B	C	D
BL-3-OR	7/16 - 20	.430	.390	.620	.270
	1/2 - 20	.50	.36	.71	.28
BL-5-OR	9/16 - 18	.500	.420	.750	.270
BL-7-OR	3/4 - 16	.680	.520	.940	.280
BL-8-OR	7/8 - 14	.750	.560	1.060	.330
BL-10-OR	1-1/16 - 12	.870	.660	1.310	.340
BL-11-OR	1-3/16 - 12	1.000	.700	1.500	.390
BL-12-OR	1-5/16 - 12	1.070	.700	1.620	.390
BL-13-OR	1-5/8 - 12	1.125	.750	1.880	.390
BL-14-OR	1-7/8 - 12	1.500	.750	2.125	.390

NOTE: Removed Caplug RPO style, with integral seal ring, from this specification.
This specification requires use of a separate seal ring.

** See Section J-084 for Part Numbers **

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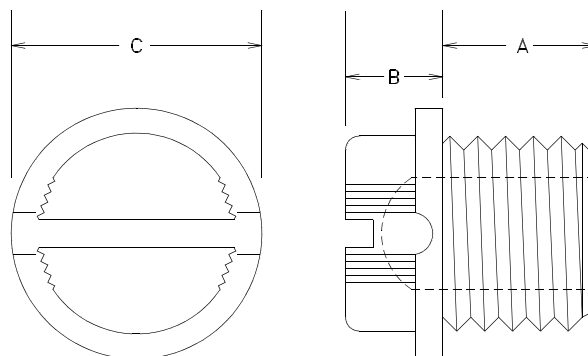
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

NC Threaded Machine Screw Plugs

Material: Ethylene vinyl acetate

Color: Yellow

Vendor: Robroy Industries



Robroy No.	To Fit NC Thread	A	B	C
MP-363	3/8-16 - .375	.31	.34	.62
MP-531	1/2-13 - .500	.38	.38	.88
MP-359	3/4-10 - .750	.38	.34	1.00
MP-361	1-8 - 1.000	.38	.34	1.19

** See Section J-085 for Part Numbers **

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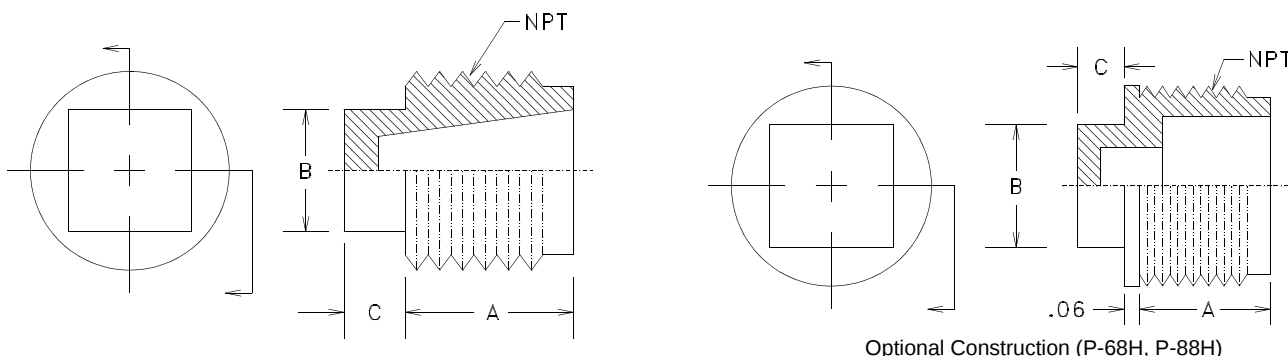
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NON-METALLIC CAPS, PLUGS, AND BUSHINGS

NPT-THREADED PIPE PLUGS

Square Drive Threaded Plugs



Material: High density polyethylene

Caplug No. (Red)	Alliance No. (Blue)	Niagara No. (Black)	To Fit	A	B	C
P-18	R-1/8	TP-1	1/8 - 27 NPT	.44	.28	.25
P-28	R-1/4	TP-3	1/4 - 18 NPT	.50	.37	.25
P-38	R-3/8	TP-5	3/8 - 18 NPT	.56	.44	.25
P-48	R-1/2	TP-7	1/2 - 14 NPT	.59	.56	.25
P-68H	R-3/4	TP-9	3/4 - 14 NPT	.62	.62	.25
P-88H		TP-11	1 - 11-1/2 NPT	.72	.81	.25
		TP-13	1-1/4 - 11-1/2 NPT	1.00	1.00	.38
		TP-15	1-1/2 - 11-1/2 NPT	1.00	1.25	.38

Flanged Square Drive Threaded Plugs

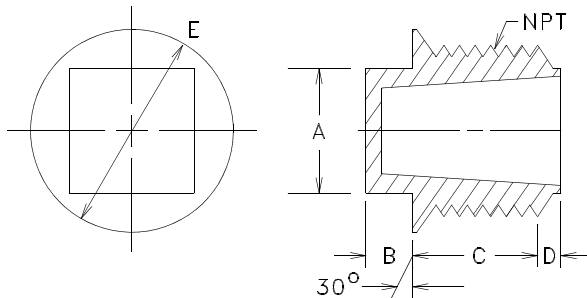
Material: High density polyethylene

Color: Black

Vendor: Niagara Plastics

Niagara No.	To Fit	A	B	C	D	E
TP-1F	1/8-27 NPT	.44+	.19	.28	.09	.56
TP-3F	1/4-18 NPT	.44	.25	.34	.09	.69
TP-5F	3/8-18 NPT	.44	.25	.41	.09	.81
TP-7F	1/2-14 NPT	.56	.25	.41	.09	1.00
TP-9F	3/4-14 NPT	.62	.25	.53	.12	1.25

+ hexagonal head



** See Section J-086 for Part Numbers **

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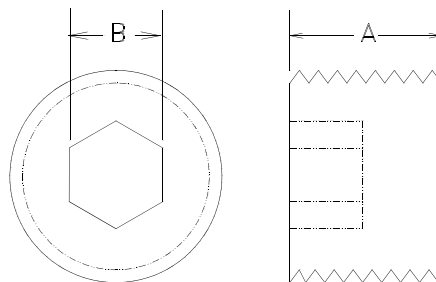
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

NPT - THREADED PIPE PLUGS

Hex Socket Threaded Pipe Plugs

Material: Ethylene vinyl acetate or high density polyethylene**Vendor:** Niagara Plastics - black
Robroy Industries - yellow

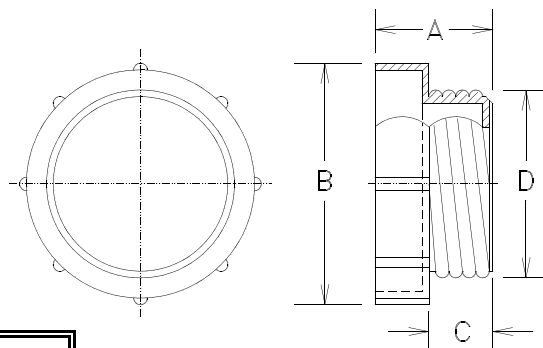
Niagara Part No.	Robroy Part No.	Thread Size	A	B
TH-3	P-130	1/4 - 18 NPT	.50	.25
TH-5	P-131	3/8 - 18 NPT	.56	.31
TH-7	P-132	1/2 - 14 NPT	.56	.38
TH-9	P-133	3/4 - 14 NPT	.62	.56
TH-11	P-134	1 - 11-1/2 NPT	.75	.62
	P-135	1-1/4 - 11-1/2 NPT	.75	.75
	P-136	1-1/2 - 11-1/2 NPT	.75	.75



Knurled Head Threaded Pipe Plugs

Material: High density polyethylene**Color:** Red**Vendor:** Alliance Plastics

Alliance Part No.	Thread Size	A	B	C	D
PT-1/4	1/4 - 18 NPT	.500	.725	.225	.440
PT-3/8	3/8 - 18 NPT	.475	.900	.225	.585
PT-1/2	1/2 - 14 NPT	.500	1.120	.250	.700
PT-3/4	3/4 - 14 NPT	.500	1.300	.250	.940
PT-1	1 - 11-1/2 NPT	.500	1.565	.250	1.180



** See Section J-086 for Part Numbers **

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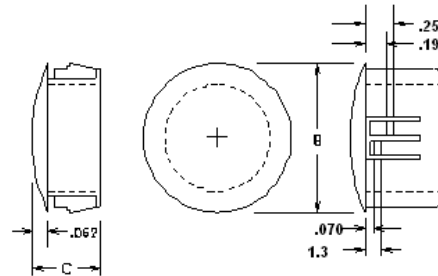
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

DPT Dome Plugs

Material: Nylon

Color: Black

Vendor: Heyco Molded Prod. Inc.



Heyco No.	Description	Mounting Hole	Plate Thickness Max.	Diameter	Height
				B	C
3102	DPT-1250	1.250	.250	1.375	.562

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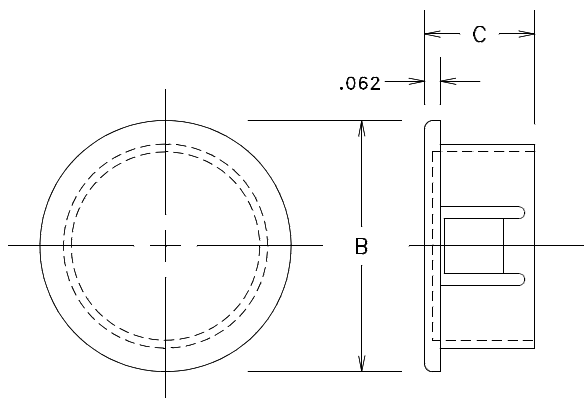
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Flat Face Pry Out Hole Plugs

Material: Nylon

Color: Black

Vendor: Heyco



Heyco No.	Description	Mounting Hole Diameter	Plate Thickness Max.	Head Diameter	Height
				B	C
3053	POP-250	.250	.156	.42	.33
3056	POP-312	.312	.172	.52	.41
3059	POP-375	.375	.172	.58	.41
3062	POP-437	.437	.172	.61	.41
3065	POP-500	.500	.172	.67	.41
3068	POP-562	.562	.172	.73	.41
3071	POP-625	.625	.172	.80	.41
3074	POP-687	.687	.172	.89	.41
3077	POP-750	.750	.172	.97	.41
3080	POP-812	.812	.172	1.03	.41
3083	POP-875	.875	.172	1.08	.41
3086	POP-1000	1.000	.172	1.22	.41

** See Section J-088 for Part Numbers **

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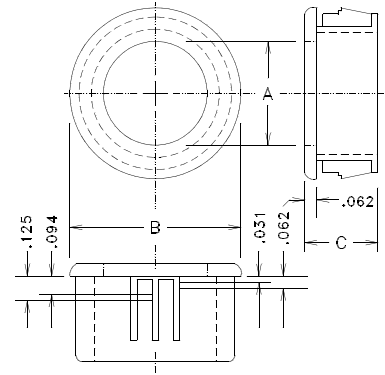
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Snap Bushings

Material: Nylon

Color: Black

Vendor: Heyco



Heyco No.	UL/CSA Description	Mounting Hole Diameter	Plate Thickness Max.	Inside Diameter	Head Diameter	Height
				A	B	C
2000	SB-250-2	.250	.062	.12	.31	.31
2010	SB-312-3	.312	.062	.19	.37	.31
2030	SB-375-4	.375	.125	.25	.47	.41
2038	SB-437-4	.437	.125	.25	.53	.41
2053	SB-500-6	.500	.125	.38	.58	.41
2063	SB-562-6	.562	.125	.38	.66	.41
2073	SB-625-8	.625	.125	.50	.72	.41
2083	SB-687-8	.687	.125	.50	.78	.41
2090	SB-750-6	.750	.125	.37	.84	.41
2092	SB-750-8	.750	.125	.50	.84	.41
2093	SB-750-9	.750	.125	.56	.84	.41
2096	SB-750-10	.750	.125	.61	.84	.41
2840	SB-750-625	.750	.250	.625 *	.83	.53
2103	SB-812-10	.812	.125	.62	.89	.41
2110	SB-875-6	.875	.125	.38	.95	.45
2113	SB-875-7	.875	.125	.44	.95	.45
2116	SB-875-8	.875	.125	.50	.95	.45
2123	SB-875-10	.875	.125	.62	.95	.45
2140	SB-1000-12	1.000	.125	.75	1.12	.45
2163	SB-1093-14	1.109	.125	.88	1.22	.45
2182	SB-1187-15	1.187	.125	.93	1.31	.45
2210	SB-1375-16	1.375	.125	1.00	1.47	.45
2233	SB-1500-17	1.500	.125	1.06	1.61	.45
2236	SB-1500-18	1.500	.125	1.12	1.61	.45
2240	SB-1500-21	1.500	.125	1.31	1.61	.45
2300	SB-1750-22	1.750	.125	1.38	1.88	.45
2400	SB-2000-26	2.000	.125	1.62	2.12	.45

* +.015 -.000

** See Section J-089 for Part Numbers **

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NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Open / Closed and Universal Bushings

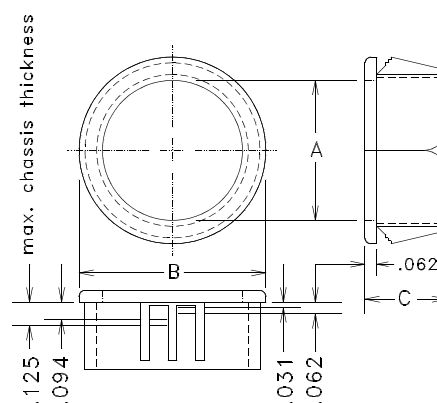
Open / Closed Bushings

Material: Nylon

Color: Black - only

Vendor: Heyco

Heyco No.	UL/CSA Description	Mounting Hole Diameter	Inside Diam.	Head Diam.	Height
			A	B	C
2865	OCB-375	.375	.266	.42	.41
2871	OCB-500	.500	.312	.56	.41
2869	OCB-562	.562	.391	.64	.41
2872	OCB-625	.625	.453	.69	.41
2873	OCB-750	.750	.547	.80	.41
2874	OCB-875	.875	.672	.92	.41
2878	OCB-1000	1.000	.797	1.06	.41



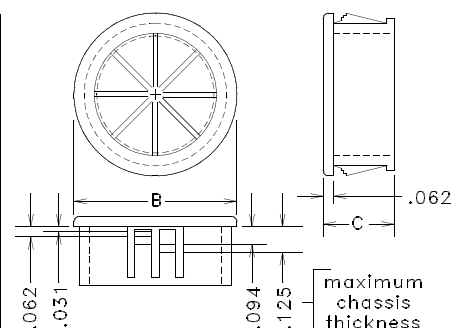
Universal Bushings

Material: Nylon

Color: Black

Vendor: Heyco

Heyco No.	UL/CSA Description	Mounting Hole Diameter	Maximum Inside Diameter	Head Diam.	Height
				B	C
2077	UB-625	.625	.438	.72	.41
2089	UB-750	.750	.500	.86	.39
2106	UB-812	.812	.500	.89	.39
2119	UB-875	.875	.656	.94	.45
2137	UB-1000	1.000	.750	1.06	.45
2157	UB-1093	1.093	.812	1.16	.45



** See Section J-089 for Part Numbers **

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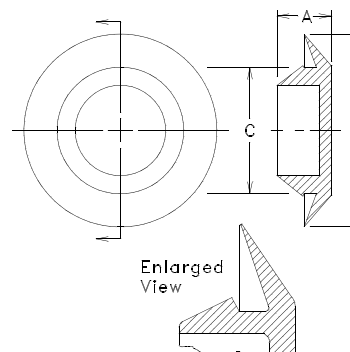
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NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Button Plugs Flush Types



Material: Low density polyethylene

Color: Black

Vendor: Caplugs
Niagara Plastics
Robroy Industries

Caplug No.	Niagara No.	Robroy No.	Mounting Hole Diameter min - max	Plate Thickness min - max	Height	Flange Diameter	Outside Diameter
					A	B	C
BPF-1/4++			.24-.25	.02-.07	.21	.50	.28
BPF-3/8	659		.37-.38	.02-.05	.19	.75	.41
BPF-3/8-3	659-1	SM 3/8	.37-.38	.06-.11	.24	.75	.41
BPF-7/16			.43-.45	.03-.06	.22	.69	.47
BPF-1/2	411	SM 1/2	.49-.51	.03-.08	.25	.86	.54
BPF-9/16			.55-.56	.03-.08	.25	.87	.60
	430		.61-.63	.03-.08	.25	1.06	.675
BPF-5/8	430-S		.61-.63	.06-.08	.25	.81	.67
	437		.67-.70	.03-.08	.25	1.06	.71
BPF-3/4	412	SM 3/4	.73-.76	.05-.11	.29	1.01	.79
BPF-7/8	438	SM 7/8	.86-.88	.03-.08	.25	1.16	.91
BPF-7/8-6			.86-.88	.06-.18	.36	1.16	.91
BPF-15/16			.92-.95	.03-.08	.25	1.31	.98
BPF-1	413	SM 1	.98-1.01	.03-.08	.25	1.37	1.04
	465		1.07-1.11	.03-.08	.25	1.31	1.15
BPF-1-1/8-6			1.10-1.15	.02-.18	.43	1.53	1.18
BPF-1-3/16	457		1.16-1.20	.03-.08	.25	1.56	1.22
BPF-1-1/4	414	SM 1-1/4	1.22-1.26	.03-.08	.25	1.62	1.29
BPF-1-5/16			1.29-1.33	.03-.08	.25	1.68	1.36
BPF-1-1/2	415		1.48-1.51	.02-.08	.25	1.88	1.54
BPF-1-3/4	416		1.73-1.76	.03-.08	.25	2.13	1.79
	417		1.98-2.02	.03-.08	.25	2.44	2.08
BPF-2-1/8			2.10-2.14	.03-.08	.25	2.49	2.17
	419		2.48-2.52	.03-.08	.25	3.00	2.58
	472		2.60-2.65	.03-.08	.25	3.13	2.71
BPF-3	421		2.97-3.02	.03-.08	.25	3.36	3.06
BPF-3-1/8			3.10-3.15	.03-.08	.25	3.52	3.18
BPF-3-1/2			3.47-3.52	.03-.11	.28	3.86	3.56
	424		3.73-3.78	.03-.08	.25	4.00	3.78
BPF-4	425		3.97-4.02	.05-.10	.28	4.37	4.13

++ ethylene vinyl acetate

** See Section J-090 for Part Numbers **

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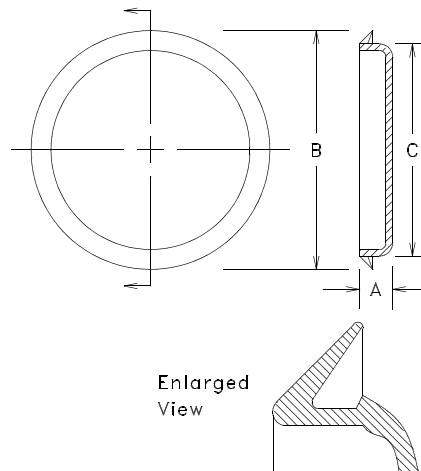
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Button Plugs Recessed Type

Material: Low density polyethylene

Color: Black

Vendor: Caplugs
Niagara Plastics



Caplug No.	Niagara No.	Mounting Hole Diameter	Plate Thickness	Height	Flange Diameter	Outside Diameter
				A	B	C
BP-1/2	411-2	.50 - .52	.02 - .07	.29	.85	.55
BP-1/2-4		.50 - .52	.06 - .13	.32	.85	.55
BP-3/4		.73 - .76	.02 - .14	.36	1.16	.79
BP-13/16	412-2	.79 - .82	.02 - .07	.29	1.15	.85
BP-7/8		.87 - .90	.02 - .10	.35	1.23	.93
BP-29/32		.90 - .91	.02 - .10	.35	1.25	.95
BP-1	413-2	.99 - 1.02	.02 - .10	.35	1.35	1.05
BP-1-1/16		1.04 - 1.07	.02 - .10	.35	1.40	1.10
BP-1-3/32		1.09 - 1.12	.02 - .10	.35	1.47	1.16
BP-1-1/8	414-2	1.10 - 1.15	.02 - .18	.43	1.53	1.18
BP-1-1/4		1.23 - 1.27	.01 - .10	.35	1.60	1.30
BP-1-3/8		1.36 - 1.40	.02 - .10	.35	1.73	1.43
BP-1-1/2	415-2	1.48 - 1.52	.02 - .10	.35	1.85	1.55
BP-1-1/2-7		1.48 - 1.52	.13 - .22	.50	1.83	1.54
BP-1-5/8		1.59 - 1.65	.03 - .10	.36	2.00	1.68
BP-1-3/4	416-2	1.72 - 1.77	.02 - .10	.35	2.10	1.80
BP-1-3/4-5		1.70 - 1.78	.02 - .16	.43	2.25	1.80
BP-1-13/16		1.77 - 1.82	.02 - .10	.35	2.16	1.85
BP-1-7/8	417-2	1.85 - 1.90	.02 - .10	.35	2.24	1.93
BP-2		1.97 - 2.02	.02 - .10	.36	2.35	2.05
BP-2-1/2		2.45 - 2.51	.02 - .10	.35	2.85	2.54
BP-2-1/2-5	419-2	2.44 - 2.53	.02 - .14	.43	3.00	2.55
		2.97 - 3.03	.02 - .14	.41	3.50	3.06

** See Section J-090 for Part Numbers **

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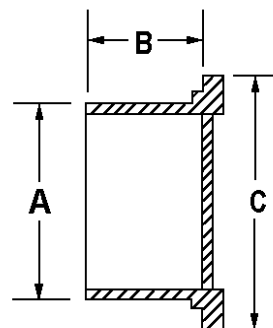
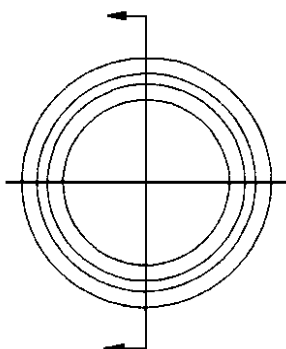
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Sleeve Caps for Internal Threads

Material: Low Density Polyethylene

Color: Yellow

Vendors: Caplugs



Caplug No.	A Will Plug Listed Thread Size	Flange Diameter		Depth to Shoulder	
		C		B	
		in	mm	in	mm
EP-8	1/2-28	.66	16.76	.55	13.67
EP-10	5/8-24	.75	19.05	.55	13.67
EP-12	3/4-20	.85	21.59	.55	13.67
EP-14	7/8-20	1.01	25.65	.55	13.67
EP-16	1-20	1.14	28.95	.55	13.67
EP-18	1 1/8-18	1.24	31.49	.55	13.67
EP-20	1 1/4-18	1.38	35.05	.55	13.67
EP-22	1 3/8-18	1.50	38.10	.55	13.67
EP-24	1 1/2-18	1.60	40.64	.62	16.00
EP-25	1 5/8-16	1.61	40.89	.55	13.67
EP-28	1 3/4-18	1.86	47.24	.55	13.67
EP-32	2-18	2.09	53.08	.55	13.67
EP-36	2 1/4-16	2.38	58.42	.55	13.67
EP-40	2 1/2-16	2.61	66.21	.55	13.67

** See Section J-083 for Part Numbers**

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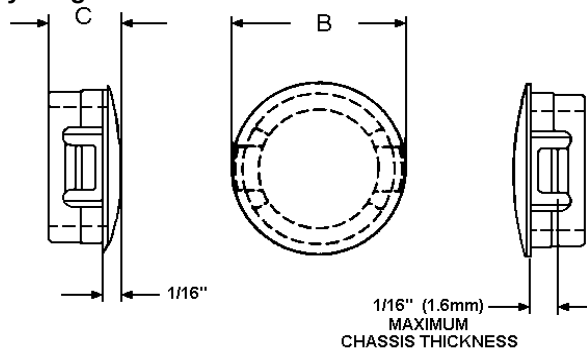
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NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Shorty Plugs



Material: Nylon

Color: Black

Vendor: Heyco Molded Prod. Inc.

Heyco No. (Black)	Description	Mounting Hole Diameter		Plate Thickness Max.		Diameter		Height	
						B		C	
		in	mm	in	mm	in	mm	in	mm
1654	SP-218	.218	5,5	.062	1.6	9/32	7,1	1/4	6,4
1660	SP-281	.281	7,1			11/32	8,7		
1678	SP-312	.312	7,9			3/8	9,5		
1663	SP-343	.343	8,7			13/32	10,3		
1681	SP-375	.375	9,			15/32	11,9		
1666	SP-406	.406	10,3			15/32	11,9		
1684	SP-437	.437	11,1			17/32	13,5		
1669	SP-468	.468	11,9			17/32	13,5		
1687	SP-500	.500	12,7			37/64	14,7		
1672	SP-531	.531	13,5			19/32	15,1		
1675	SP-593	.593	15,1			11/16	17,5		
1690	SP-625	.625	15,9			23/32	18,3		
1693	SP-750	.750	19,0			27/32	21,4		
1696	SP-781	.781	19,8			57/64	22,6		
1699	SP-875	.875	22,2			31/32	24,6		

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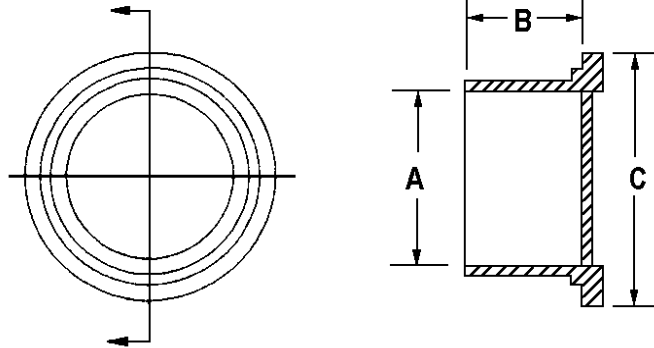
NON-METALLIC CAPS, PLUGS, AND BUSHINGS

Sleeve Caps for External Threads

Material: Low Density Polyethylene

Color: Red

Vendors: Caplugs
Niagara Plastics



Caplug No.	Niagara No.	To Fit Thread Size	Inside Length	Flange Diameter
		A	B	C
RC - 7		7/16 - .44	.59	.57
RC - 10		5/8 - .62	.84	.76
RC - 11		11/16 - .71	.84	.83
RC - 12		3/4 - .75	.88	.90
RC - 14		7/8 - .88	.84	1.02
RC - 17		1-1/16 - 1.06	.89	1.21

The parts on this page are similar to the parts on Page 3 of this section.

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NON-METALLIC CAPS, PLUGS, AND BUSHINGS

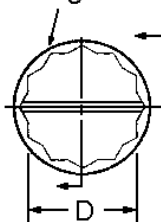
Threaded Plug with Integral Seal Ring

Material: Polypropylene

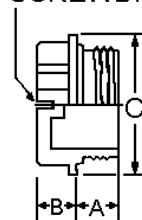
Color: Red

Vendors: Alliance Plastic Inc.

12 point head
for socket or
wrench tightening



SCREWDRIVER SLOT



MATERIAL/COLOR:
High Density Polyethylene/Red

Caplug No.	To Plug Thread Size	Dimensions						12-Point Socket Size D
		A		B		C		
		In	mm	In	mm	In	mm	
RPO-104	7/16-20	.34	8.64	.26	6.60	.66	16.76	3/8
RPO-105	1/2-20	.34	8.64	.30	7.62	.73	18.54	7/16
RPO-106	9/16-18	.36	9.14	.30	7.62	.80	20.32	1/2
RPO-108	3/4-16	.41	10.41	.31	7.87	1.02	25.91	11/16
RPO-110	7/8-14	.47	11.94	.31	7.87	1.16	29.47	13/16
RPO-112	1/16-12	.61	15.49	.31	7.87	1.45	36.83	1
RPO-116	1-5/16-	.61	15.49	.33	8.38	1.74	44.20	1-1/4
RPO-120	12	.61	15.49	.33	8.38	2.17	55.12	1-9/16
	1-5/8-12							

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