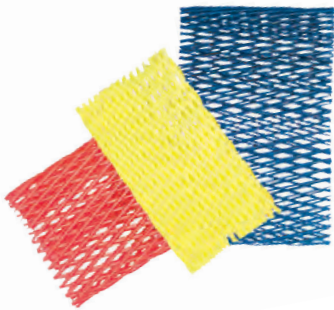


CAPS, PLUGS & NETTING

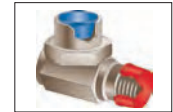
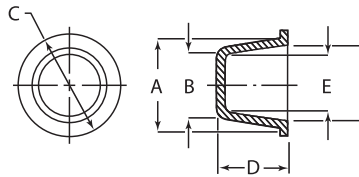


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CAPS, PLUGS & NETTING



TAPERED CAPS & PLUGS

Numbered/GP Series
Tapered Caps or Plugs

Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

Features:

- The tapered design allows the part to plug multiple inner diameters or cap multiple outside diameters
- Protects against damage, dirt, moisture and corrosion during storage and shipping
- GP series parts have a heavy duty design which includes a rugged wall and seal rings for maximum protection

To Assure Proper Fit:

Plugs

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

Caps

Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part.
Minimum of .020"

See pages 64 and 65 for Application Wizards

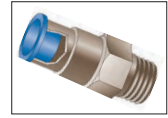
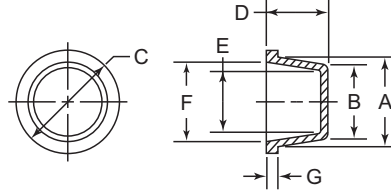
Item No.	Use as a Plug						Use as a Cap						Bulk Pack Qty		
	Blue	Red	A		B		C		D		E			F	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
001A	—	—	0.180	4.57	0.115	2.92	0.313	7.94	0.406	10.32	0.051	1.30	0.118	3.00	5000
001-SA	—	—	0.180	4.57	0.138	3.51	0.310	7.87	0.250	6.35	0.051	1.30	0.118	3.00	5000
1000A	1000B	—	0.205	5.21	0.145	3.68	0.410	10.41	0.410	10.41	0.079	2.01	0.150	3.81	5000
002A	002C	—	0.240	6.10	0.175	4.45	0.375	9.53	0.375	9.53	0.109	2.77	0.175	4.45	5000
003A	—	—	0.268	6.81	0.209	5.31	0.375	9.53	0.375	9.53	0.127	3.23	0.193	4.90	5000
003WA	—	—	0.274	6.95	0.200	5.08	0.594	15.08	0.375	9.53	0.150	3.81	0.220	5.58	5000
004A	004B	—	0.275	6.99	0.209	5.31	0.438	11.11	0.375	9.53	0.150	3.81	0.209	5.31	5000
005A	005B	—	0.302	7.67	0.240	6.10	0.469	11.91	0.375	9.53	0.175	4.45	0.240	6.10	5000
—	GP607A	—	0.325	8.26	0.292	7.42	0.531	13.49	0.375	9.53	0.215	5.46	0.250	6.35	5000
—	50222	—	0.335	8.50	0.185	4.70	0.461	11.70	0.886	22.50	0.098	2.50	0.224	5.70	10000
006A	006B	—	0.335	8.51	0.265	6.73	0.469	11.91	0.375	9.53	0.204	5.18	0.275	6.99	5000
007A	007B	—	0.365	9.27	0.300	7.62	0.531	13.49	0.375	9.53	0.234	5.94	0.301	7.65	5000
007WA	—	—	0.365	9.27	0.300	7.62	0.680	17.27	0.375	9.53	0.234	5.94	0.301	7.65	5000
007SA	—	—	0.365	9.27	0.330	8.38	0.500	12.70	0.219	5.56	0.266	6.76	0.301	7.65	5000
—	GP610A	—	0.389	9.88	0.320	8.12	0.563	14.29	0.438	11.11	0.212	5.38	0.285	7.23	5000
008A	008C	—	0.398	10.11	0.330	8.38	0.563	14.29	0.375	9.53	0.275	6.99	0.330	8.38	5000
009A	009C	—	0.428	10.87	0.360	9.14	0.594	15.08	0.375	9.53	0.299	7.59	0.365	9.27	5000
010A	010B	—	0.460	11.68	0.390	9.91	0.625	15.88	0.393	10.0	0.325	8.26	0.396	10.06	5000
—	10750	—	0.465	11.80	0.394	10.00	0.591	15.00	0.374	9.50	0.335	8.50	0.394	10.00	10000
011A	011B	—	0.485	12.32	0.420	10.67	0.594	15.08	0.375	9.53	0.356	9.04	0.421	10.69	5000
—	GP617A	—	0.501	12.72	0.437	11.09	0.647	16.43	0.438	11.11	0.352	8.94	0.420	10.66	4000
012A	012E	—	0.512	13.00	0.447	11.35	0.625	15.88	0.406	10.32	0.385	9.78	0.448	11.38	5000
—	10421	—	0.520	13.20	0.445	11.30	0.669	17.00	0.433	11.00	0.386	9.80	0.457	11.60	10000
013A	013C	—	0.547	13.89	0.490	12.45	0.719	18.26	0.500	12.70	0.409	10.39	0.485	12.32	5000
—	12421	—	0.551	14.00	0.441	11.20	0.689	17.50	0.728	18.50	0.362	9.20	0.476	12.10	5000
013SPA	—	—	0.545	13.84	0.478	12.14	0.719	18.26	0.313	7.94	0.410	10.41	0.480	12.19	5000
013WA	—	—	0.547	13.89	0.478	12.14	0.875	22.23	0.500	12.70	0.409	10.39	0.485	12.32	7000
014A	014C	—	0.568	14.43	0.500	12.70	0.750	19.05	0.438	11.11	0.435	11.05	0.503	12.78	5000
1015A	—	—	0.576	14.63	0.500	12.70	0.720	18.29	0.470	11.94	0.440	11.18	0.516	13.11	5000
—	12901	—	0.583	14.80	0.472	12.00	0.689	17.50	0.433	11.00	0.413	10.50	0.472	12.00	5000
—	015A	—	0.594	15.09	0.504	12.80	0.728	18.49	0.949	24.10	0.421	10.69	0.520	13.21	4000
—	10438	—	0.602	15.30	0.535	13.60	0.748	19.00	0.441	11.20	0.476	12.10	0.539	13.70	5000
1020A	—	—	0.612	15.54	0.554	14.07	0.750	19.05	0.340	8.64	0.490	12.45	0.551	14.00	5000
016A	016D	—	0.620	15.75	0.531	13.49	0.750	19.05	0.500	12.70	0.468	11.89	0.555	14.10	7500
—	10342	—	0.630	16.00	0.559	14.20	0.748	19.00	0.476	12.10	0.500	12.70	0.567	14.40	5000
017A	017D	—	0.634	16.10	0.550	13.97	0.781	19.84	0.500	12.70	0.485	12.32	0.568	14.43	7500
—	10424	—	0.669	17.00	0.579	14.70	0.811	20.60	0.500	12.70	0.520	13.20	0.606	15.40	5000
018A	018E	—	0.675	17.15	0.580	14.99	0.875	22.23	0.531	13.49	0.520	13.21	0.605	15.37	5000
1025A	—	—	0.694	17.63	0.669	16.99	0.750	19.05	0.220	5.59	0.613	15.57	0.638	16.21	5000
020A	020D	—	0.695	17.65	0.610	15.49	0.844	21.43	0.500	12.70	0.549	13.94	0.634	16.10	6000
021A	021B	—	0.728	18.49	0.641	16.28	0.875	22.23	0.500	12.70	0.575	14.61	0.665	16.89	5000
022A	022C	—	0.754	19.15	0.675	17.15	0.875	22.23	0.625	15.88	0.615	15.62	0.690	17.53	4000
—	GP628A	—	0.757	19.22	0.658	16.71	0.921	23.39	0.648	16.45	0.538	13.66	0.662	16.81	5700
—	110197	—	0.764	19.40	0.673	17.10	0.866	22.00	0.512	13.00	0.610	15.50	0.701	17.80	6500
—	11088	—	0.772	19.60	0.697	17.70	0.874	22.20	0.500	12.70	0.598	15.20	0.681	17.30	5000
023A	023C	—	0.785	19.94	0.690	17.53	0.938	23.81	0.625	15.88	0.625	15.88	0.724	18.39	4000
—	12197	—	0.795	20.20	0.677	17.20	0.953	24.20	0.709	18.00	0.610	15.50	0.709	18.00	4000
024A	—	—	0.805	20.45	0.750	19.05	0.860	21.84	0.190	4.83	0.688	17.48	0.743	18.87	7500
026A	026C	—	0.825	20.96	0.725	18.42	1.000	25.40	0.500	12.70	0.662	16.81	0.760	19.30	4000
026-LA	—	—	0.825	20.96	0.725	18.42	0.970	24.64	0.590	14.99	0.662	16.81	0.760	19.30	8000
027A	027E	—	0.848	21.54	0.750	19.05	1.031	26.19	0.625	15.88	0.686	17.42	0.777	19.74	7000
—	GP632A	—	0.851	21.61	0.766	19.45	1.045	26.54	0.625	15.88	0.609	15.46	0.740	18.79	4200
—	027AA	—	0.882	22.40	0.768	19.50	1.039	26.40	0.787	20.00	0.701	17.80	0.823	20.90	3000
028A	028D	—	0.910	23.11	0.802	20.37	1.094	27.78	0.750	19.05	0.725	18.42	0.846	21.49	5000
029A	029D	—	0.931	23.65	0.820	20.83	1.125	28.58	0.625	15.88	0.754	19.15	0.868	22.05	5500
030A	030C	—	0.973	24.71	0.856	21.74	1.125	28.58	0.750	19.05	0.768	19.51	0.906	23.01	4500

(Continued on next page >)

TAPERED CAPS & PLUGS



LF Series
Wide Flange Caps or Plugs



Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

Features:

- Wider flange assures added protection on bearing surfaces
- Wider flange keeps plug from being accidentally pushed down through the mating part
- The tapered design allows the part to plug multiple inner diameters or cap multiple outside diameters

To Assure Proper Fit:

Plugs

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

Caps

Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part.
Minimum of .020"

tem No.	Use as a Plug				Use as a Cap							Color	Bulk Pack Qty			
	A		B		C		D		E		F			G		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
LF2A	0.240	6.10	0.173	4.39	0.562	14.27	0.465	11.81	0.111	2.82	0.177	4.50	0.090	2.29	Blue	5500
LF3A	0.290	7.37	0.236	5.99	0.485	12.32	0.402	10.21	0.146	3.71	0.245	6.22	0.090	2.29	Blue	5000
LF5A	0.374	9.50	0.307	7.80	0.724	18.39	0.404	10.26	0.248	6.30	0.303	7.70	0.030	0.76	Red	5000
LF6A	0.418	10.62	0.367	9.32	0.740	18.80	0.402	10.21	0.298	7.57	0.354	8.99	0.090	2.29	Blue	5000
LF7A	0.447	11.35	0.397	10.08	0.795	20.19	0.402	10.21	0.328	8.33	0.383	9.73	0.090	2.29	Blue	5000
LF8A	0.475	12.07	0.427	10.85	0.812	20.62	0.402	10.21	0.356	9.04	0.422	10.72	0.090	2.29	Blue	4750
12433	0.484	12.30	0.421	10.70	0.866	22.00	0.404	10.26	0.358	9.10	0.421	10.70	0.030	0.76	Red	10000
LF9A	0.509	12.93	0.440	11.18	0.820	20.83	0.465	11.81	0.375	9.53	0.450	11.43	0.090	2.29	Blue	7500
10420	0.520	13.20	0.445	11.30	1.142	29.00	0.463	11.76	0.386	9.80	0.457	11.60	0.030	0.76	Red	10000
LF10A	0.547	13.89	0.481	12.22	0.870	22.10	0.460	11.68	0.409	10.39	0.493	12.52	0.090	2.29	Blue	7000
12434	0.610	15.50	0.531	13.50	1.181	30.00	0.404	10.26	0.449	11.40	0.520	13.20	0.030	0.76	Red	5000
LF11A	0.616	15.65	0.530	13.46	0.940	23.88	0.470	11.94	0.470	11.94	0.570	14.48	0.090	2.29	Blue	5000
LF11XA	0.631	16.03	0.565	14.35	0.950	24.13	0.491	12.47	0.500	12.70	0.580	14.73	0.090	2.29	Blue	5000
LF12A	0.659	16.74	0.580	14.99	0.983	24.97	0.527	13.39	0.518	13.16	0.605	15.37	0.090	2.29	Blue	4500
18351	0.665	16.90	0.579	14.70	1.000	25.40	0.545	13.84	0.520	13.20	0.606	15.40	0.045	1.14	Red	6000
LF12XA	0.687	17.45	0.610	15.49	1.031	26.19	0.527	13.39	0.548	13.92	0.635	16.13	0.090	2.29	Blue	4500
LF13XA	0.710	18.03	0.655	16.64	1.062	26.97	0.528	13.41	0.585	14.86	0.647	16.43	0.090	2.29	Yellow	4000
LF13A	0.725	18.42	0.628	15.95	1.062	26.97	0.528	13.41	0.558	14.17	0.667	16.94	0.090	2.29	Yellow	5000
LF15A	0.775	19.69	0.690	17.53	1.125	28.58	0.559	14.20	0.620	15.75	0.721	18.31	0.090	2.29	Blue	3500
12435	0.787	20.00	0.689	17.50	1.374	34.90	0.608	15.44	0.634	16.10	0.728	18.50	0.045	1.14	Red	3000
LF15XA	0.812	20.62	0.725	18.42	1.140	28.96	0.580	14.99	0.662	16.81	0.765	19.43	0.090	2.29	Blue	3000
18356	0.846	21.50	0.752	19.10	1.500	38.10	0.608	15.44	0.693	17.60	0.783	19.90	0.045	1.14	Red	2500
LF16A	0.870	22.10	0.755	19.18	1.185	30.10	0.580	14.99	0.693	17.60	0.808	20.52	0.090	2.29	Blue	3000
LF17A	0.920	23.37	0.820	20.83	1.250	31.75	0.621	15.77	0.741	18.82	0.865	21.97	0.090	2.29	Blue	2300
LF18A	0.975	24.77	0.867	22.02	1.281	32.54	0.650	16.51	0.805	20.45	0.913	23.19	0.090	2.29	Blue	4000
12436	0.984	25.00	0.862	21.90	1.890	48.00	0.734	18.64	0.744	18.90	0.866	22.00	0.045	1.14	Red	1500
LF19A	1.020	25.90	0.950	24.13	1.344	34.13	0.715	18.16	0.875	22.22	0.957	24.30	0.090	2.29	Blue	1500
18357	1.091	27.70	0.972	24.70	1.500	38.10	0.797	20.24	0.913	23.20	1.028	26.10	0.045	1.14	Red	1500
LF20A	1.105	28.07	0.984	24.99	1.437	36.50	0.746	18.95	0.920	23.37	1.040	26.42	0.090	2.29	Blue	3000
LF21A	1.323	33.60	1.197	30.40	1.862	47.29	0.643	16.33	1.094	27.79	1.209	30.71	0.045	1.14	Red	1400
18360	1.354	34.40	1.224	31.10	1.874	47.60	0.797	20.24	1.173	29.80	1.291	32.80	0.045	1.14	Red	1000
LF22A	1.382	35.10	1.237	31.42	1.687	42.85	0.746	18.95	1.167	29.64	1.312	33.32	0.090	2.29	Blue	2000
LF23XA	1.466	37.24	1.312	33.32	1.845	46.86	0.775	19.69	1.250	31.75	1.425	36.20	0.120	3.05	Blue	1700
LF24A	1.604	40.74	1.450	36.83	1.938	49.23	0.745	18.92	1.380	35.05	1.550	39.37	0.120	3.05	Blue	1500
LF26A	1.764	44.81	1.630	41.40	2.252	57.20	0.784	19.91	1.563	39.70	1.693	43.00	0.035	0.90	Red	700
LF28A	1.890	48.01	1.730	43.94	2.312	58.72	0.745	18.92	1.650	41.91	1.825	46.36	0.120	3.05	Blue	1100
LF30A	2.043	51.89	1.858	47.19	2.835	72.01	1.004	25.50	1.752	44.50	1.917	48.69	0.059	1.50	Red	400
LF32A	2.075	52.71	1.902	48.31	2.500	63.50	1.059	26.90	1.823	46.30	1.996	50.70	0.059	1.50	Red	1000
LF34A	2.130	54.10	2.028	51.51	2.626	66.70	0.768	19.50	1.953	49.61	2.047	51.99	0.039	1.00	Red	500
LF36A	2.402	61.01	2.146	54.51	3.012	76.50	1.024	26.00	2.055	52.20	2.323	59.00	0.039	1.00	Red	300
LF38A	2.614	66.40	2.441	62.00	3.267	83.00	1.152	29.26	2.323	59.00	2.531	64.30	0.050	1.27	Red	250

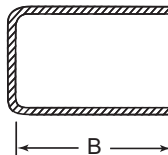
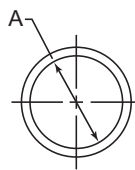
FREE SAMPLES

See our full range of Masking Solutions on page 66

MASKING PLUGS

Temperature protection up to **600°F**

A & AR Series
Round End Caps

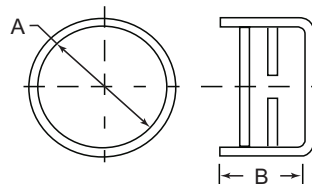


Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

Features:

- Designed to protect outside diameters
- Parts with a W/R have an internal molded ring for extra gripping power
- Parts with AR prefix have internal ribs for superior retention



AR Prefix

See pages 64 and 65 for Application Wizards

Item No.	A		B		Color	Bulk Pack Qty
	in	mm	in	mm		
A3/32W/RA	0.094	2.38	0.625	15.88	Blue	5000
A1/8W/RA	0.125	3.18	0.625	15.88	Blue	5000
A5/32W/RA	0.156	3.97	0.625	15.88	Blue	5000
A3/16W/RA	0.187	4.76	0.625	15.88	Blue	5000
A1/4W/RA	0.250	6.35	0.875	22.23	Blue	5000
L1/4A	0.250	6.35	1.750	44.45	Blue	7500
AS9/32A	0.281	7.14	0.500	12.70	Blue	6500
A9/32A	0.281	7.14	0.875	22.23	Blue	6500
AC5/16W/RA	0.295	7.49	0.875	22.23	Blue	6000
A5/16W/RA	0.313	7.94	0.875	22.23	Blue	5000
L5/16A	0.313	7.94	1.750	44.45	Blue	4500
A3/8W/RA	0.375	9.53	0.875	22.23	Blue	4250
L3/8A	0.375	9.53	1.750	44.45	Blue	3800
AR100A	0.390	9.91	0.630	16.00	Red	10000
AS7/16A	0.437	11.11	0.500	12.70	Blue	6000
A7/16W/RA	0.437	11.11	0.875	22.23	Blue	7000
AR105A	0.450	11.43	0.630	16.00	Red	10000
A1/2BA	0.470	11.94	0.875	22.23	Blue	5000
A1/2A	0.495	12.57	0.875	22.23	Blue	5000
AS1/2A	0.500	12.70	0.500	12.70	Blue	5000
A1/2W/RA	0.500	12.70	0.875	22.23	Blue	5000
AS9/16A	0.563	14.29	0.563	14.29	Blue	6500
A9/16A	0.563	14.29	0.875	22.23	Blue	4000
A9/16W/RA	0.563	14.29	0.875	22.23	Blue	4000
AR110A	0.580	14.73	0.787	20.00	Red	5000
AS5/8A	0.625	15.88	0.375	9.53	Blue	4250
A5/8W/RA	0.625	15.88	0.875	22.23	Blue	3500
AR115A	0.630	16.00	0.787	20.00	Red	5000
AS11/16W/RA	0.687	17.46	0.750	19.05	Blue	4000
A11/16A	0.687	17.46	0.875	22.23	Blue	3000
A11/16W/RA	0.687	17.46	0.875	22.23	Blue	3000
A23/32A	0.720	18.29	1.310	33.27	Blue	1700
K505A	0.720	18.29	1.500	38.10	Blue	2800
K505W/RA	0.720	18.29	1.500	38.10	Natural	2800
AR120A	0.727	18.47	0.787	20.00	Red	2500
AS3/4A	0.750	19.05	0.375	9.53	Blue	6000
A3/4A	0.750	19.05	0.875	22.23	Blue	5000
A3/4W/RA	0.750	19.05	0.875	22.23	Blue	5000
AR125A	0.787	20.00	0.787	20.00	Red	2000
AS13/16W/RA	0.813	20.64	0.344	8.73	Blue	6000
A13/16A	0.813	20.64	0.875	22.23	Blue	4500
A13/16W/RA	0.813	20.64	0.875	22.23	Blue	4500
AR130A	0.866	22.00	0.787	20.00	Red	2500
AS7/8W/RA	0.875	22.23	0.500	12.70	Blue	3500
A7/8W/RA	0.875	22.23	0.875	22.23	Blue	4000
L7/8A	0.875	22.23	1.750	44.45	Blue	2000

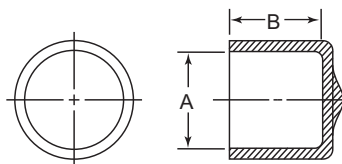
Item No.	A		B		Color	Bulk Pack Qty
	in	mm	in	mm		
A15/16A	0.937	23.81	0.813	20.64	Blue	3500
AR135A	0.961	24.41	0.827	21.01	Red	2000
A63/64A	0.980	24.89	1.310	33.27	Blue	2000
AS1A	1.000	25.40	0.375	9.53	Blue	4000
A1A	1.000	25.40	0.750	19.05	Blue	3500
A1W/RA	1.000	25.40	0.750	19.05	Blue	3500
AL1A	1.000	25.40	1.000	25.40	Blue	2500
L1B	1.000	25.40	1.750	45.72	Blue	1400
A1-1/16A	1.063	26.99	0.875	22.23	Blue	3000
A1-1/16W/RA	1.063	26.99	0.875	22.23	Blue	3000
AR140A	1.102	28.00	1.043	26.50	Red	1000
A1-1/8A	1.125	28.58	0.875	22.23	Blue	2500
A1-3/16W/RA	1.187	30.16	1.000	25.40	Blue	2000
AR145A	1.200	30.48	1.043	26.50	Red	800
AS1-1/4A	1.250	31.75	0.625	15.88	Blue	3000
A1-1/4A	1.250	31.75	0.875	22.23	Blue	2000
A1-5/16A	1.313	33.34	0.875	22.23	Blue	2000
A1-5/16W/RA	1.313	33.34	0.875	22.23	Blue	2000
A1-3/8A	1.375	34.93	0.875	22.23	Blue	1800
AR150A	1.378	35.00	1.043	26.50	Red	800
A1-7/16A	1.437	36.51	0.875	22.23	Blue	1600
AR155A	1.444	36.68	1.031	26.19	Red	500
A1-1/2A	1.500	38.10	0.875	22.23	Blue	1500
A1-9/16A	1.563	39.69	1.000	25.40	Blue	1200
A1-5/8A	1.625	41.28	1.000	25.40	Blue	1900
A1-11/16A	1.688	42.87	0.875	22.23	Blue	1200
A1-3/4A	1.750	44.45	0.875	22.23	Blue	1200
A1-7/8A	1.875	47.63	0.875	22.23	Blue	1000
A2A	2.000	50.80	0.875	22.23	Blue	1000
A2-1/8A	2.125	53.98	0.875	22.23	Blue	900
AR160A	2.125	54.00	1.094	27.80	Red	300
A2-1/4A	2.250	57.15	1.250	31.75	Blue	450
A2-3/8A	2.375	60.33	0.875	22.23	Blue	700
A2-1/2A	2.500	63.50	0.875	22.23	Blue	600
AS2-9/16A	2.563	65.09	0.375	9.53	Blue	1200
A2-19/32W/RA	2.575	65.40	1.000	25.40	Blue	500
A2-5/8A	2.615	66.42	1.000	25.40	Blue	425
A2-3/4A	2.725	69.22	1.090	27.68	Blue	450
A3A	2.980	75.69	1.000	25.40	Blue	400
A3-1/8A	3.125	79.38	1.375	34.93	Blue	250
A3-1/4A	3.250	82.55	1.875	47.63	Blue	150
A3-1/2A	3.500	88.90	1.000	25.40	Blue	300
A3-3/4A	3.740	94.99	1.000	25.40	Blue	225
A4A	3.990	101.34	1.000	25.40	Blue	200
A4-1/8A	4.115	104.52	1.000	25.40	Blue	200
AR165A	4.331	110.00	1.362	34.60	Yellow	150

PIPE CAPS & PLUGS

See Pages 92 - 95 | www.essentracomponents.com



**DM & DMS Series
Round Vinyl End Caps**



Specifications:

- Material: Vinyl (PVC)
- Color: DM – Black – 75 Durometer
DMS – Red – 63 Durometer
- Temperature Range: Up to 350°F (177°C)
- For high temperature up to 425°F (218°C) see page 71

Features:

- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Typically used to protect threaded or non-threaded tubing, rods, pipe or paper tubes
- Glossy and attractive finish makes this part ideal for use as a decorative end cap
- Red colored parts are highly visible

See pages 64 and 65 for Application Wizards

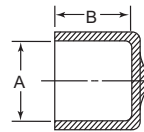
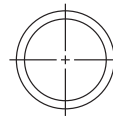
A = To Fit		Item No.			Bulk Pack Qty			
in	mm	B Length			Color	1/2 in	1 in	1 - 1/2 in
		1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)				
0.078	1.98	DM0080-1/2A	DM0080-1A	—	Black	5000	5000	—
0.094	2.38	DM0093-1/2A	DM0093-1A	—	Black	5000	10000	—
0.109	2.78	DM0110-1/2A	DM0110-1A	—	Black	5000	5000	—
0.125	3.18	DM0125-1/2A	DM0125-1A	—	Black	5000	5000	—
0.125	3.18	—	DMS0125-1A	—	Red	—	5000	—
0.141	3.57	DM0140-1/2A	DM0140-1A	DM0140-1-1/2A	Black	5000	5000	5000
0.141	3.57	—	DMS0140-1A	—	Red	—	5000	—
0.148	3.76	DM0148-1/2A	DM0148-1A	DM0148-1-1/2A	Black	5000	5000	5000
0.156	3.97	DM0156-1/2A	DM0156-1A	DM0156-1-1/2A	Black	5000	5000	5000
0.172	4.37	DM0172-1/2A	DM0172-1A	DM0172-1-1/2A	Black	5000	5000	5000
0.172	4.37	—	DMS0172-1A	—	Red	—	5000	—
0.180	4.57	DM0180-1/2A	DM0180-1A	DM0180-1-1/2A	Black	5000	5000	5000
0.187	4.75	DM0187-1/2A	DM0187-1A	DM0187-1-1/2A	Black	5000	5000	5000
0.187	4.75	—	DMS0187-1A	—	Red	—	5000	—
0.203	5.16	DM0203-1/2A	DM0203-1A	DM0203-1-1/2A	Black	5000	5000	5000
0.203	5.16	—	DMS0203-1A	—	Red	—	5000	—
0.207	5.26	DM0207-1/2A	DM0207-1A	DM0207-1-1/2A	Black	5000	5000	5000
0.218	5.54	DM0218-1/2A	DM0218-1A	DM0218-1-1/2A	Black	5000	5000	5000
0.224	5.69	DM0224-1/2A	DM0224-1A	DM0224-1-1/2A	Black	5000	5000	5000
0.230	5.84	DM0230-1/2A	DM0230-1A	DM0230-1-1/2A	Black	5000	7500	5000
0.234	5.95	DM0234-1/2A	DM0234-1A	DM0234-1-1/2A	Black	5000	5000	3000
0.234	5.95	—	DMS0234-1A	—	Red	—	5000	—
0.240	6.10	DM0240-1/2A	DM0240-1A	DM0240-1-1/2A	Black	5000	5000	5000
0.250	6.35	DM0250-1/2A	DM0250-1A	DM0250-1-1/2A	Black	5000	5000	5000
0.250	6.35	DMS0250-1/2A	DMS0250-1A	—	Red	5000	5000	—
0.281	7.14	DM0281-1/2A	DM0281-1A	DM0281-1-1/2A	Black	5000	5000	5000
0.281	7.14	DMS0281-1/2A	DMS0281-1A	—	Red	5000	5000	—
0.290	7.37	DM0290-1/2A	DM0290-1A	DM0290-1-1/2A	Black	5000	5000	5000
0.304	7.72	DM0304-1/2A	DM0304-1A	DM0304-1-1/2A	Black	5000	5000	2500
0.313	7.94	DM0313-1/2A	DM0313-1A	DM0313-1-1/2A	Black	5000	5000	4000
0.313	7.94	DMS0313-1/2A	DMS0313-1A	—	Red	5000	5000	—
0.343	8.71	DM0343-1/2A	DM0343-1A	DM0343-1-1/2A	Black	5000	5000	4000
0.343	8.71	—	DMS0343-1A	—	Red	—	5000	—
0.360	9.14	DM0360-1/2A	DM0360-1A	DM0360-1-1/2A	Black	5000	5000	2500
0.375	9.53	DM0375-1/2A	DM0375-1A	DM0375-1-1/2A	Black	5000	5000	2500
0.375	9.53	DMS0375-1/2A	DMS0375-1A	—	Red	5000	5000	—
0.406	10.32	DM0406-1/2A	DM0406-1A	DM0406-1-1/2A	Black	5000	5000	5000
0.420	10.66	DM0420-1/2A	DM0420-1A	DM0420-1-1/2A	Black	5000	5000	5000
0.437	11.10	DM0437-1/2A	DM0437-1A	DM0437-1-1/2A	Black	5000	5000	4000
0.437	11.10	DMS0437-1/2A	DMS0437-1A	DMS0437-1-1/2A	Red	5000	5000	4000
0.460	11.68	DM0460-1/2A	DM0460-1A	DM0460-1-1/2A	Black	5000	3000	1500
0.470	11.94	DM0470-1/2A	DM0470-1A	DM0470-1-1/2A	Black	5000	5000	3000
0.470	11.94	—	DMS0470-1A	—	Red	—	5000	—
0.490	12.45	DM0490-1/2A	DM0490-1A	DM0490-1-1/2A	Black	5000	3000	1500
0.500	12.70	DM0500-1/2A	DM0500-1A	DM0500-1-1/2A	Black	5000	5000	2500
0.500	12.70	DMS0500-1/2A	DMS0500-1A	DMS0500-1-1/2A	Red	5000	5000	2500
0.523	13.28	DM0523-1/2A	DM0523-1A	DM0523-1-1/2A	Black	5000	2500	2500
0.531	13.49	DM0531-1/2A	DM0531-1A	DM0531-1-1/2A	Black	5000	5000	2500
0.531	13.49	—	DMS0531-1A	—	Red	—	5000	—
0.544	13.82	DM0544-1/2A	DM0544-1A	DM0544-1-1/2A	Black	5000	5000	2500
0.544	13.82	—	DMS0544-1A	—	Red	—	5000	—
0.562	14.27	DM0562-1/2A	DM0562-1A	DM0562-1-1/2A	Black	5000	2500	3000
0.562	14.27	DMS0562-1/2A	DMS0562-1A	DMS0562-1-1/2A	Red	5000	2500	3000
0.587	14.90	DM0587-1/2A	DM0587-1A	DM0587-1-1/2A	Black	5000	2500	1200
0.600	15.24	DM0600-1/2A	DM0600-1A	DM0600-1-1/2A	Black	5000	2000	1200
0.625	15.88	DM0625-1/2A	DM0625-1A	DM0625-1-1/2A	Black	5000	2500	1250
0.625	15.88	DMS0625-1/2A	DMS0625-1A	DMS0625-1-1/2A	Red	5000	2500	1250
0.640	16.26	DM0640-1/2A	DM0640-1A	DM0640-1-1/2A	Black	5000	5000	2500
0.665	16.89	DM0665-1/2A	DM0665-1A	DM0665-1-1/2A	Black	5000	2500	2500
0.687	17.45	DM0687-1/2A	DM0687-1A	DM0687-1-1/2A	Black	5000	2500	1500
0.687	17.45	DMS0687-1/2A	DMS0687-1A	DMS0687-1-1/2A	Red	5000	2500	1500
0.725	18.42	DM0725-1/2A	DM0725-1A	DM0725-1-1/2A	Black	5000	2500	1000
0.750	19.05	DM0750-1/2A	DM0750-1A	DM0750-1-1/2A	Black	5000	2500	500
0.750	19.05	DMS0750-1/2A	DMS0750-1A	DMS0750-1-1/2A	Red	5000	2500	500
0.812	20.62	DM0812-1/2A	DM0812-1A	DM0812-1-1/2A	Black	2500	2500	1000
0.812	20.62	DMS0812-1/2A	DMS0812-1A	DMS0812-1-1/2A	Red	2500	2500	1000
0.843	21.41	DM0843-1/2A	DM0843-1A	DM0843-1-1/2A	Black	5000	2500	1200
0.843	21.41	—	DMS0843-1A	—	Red	—	2500	—

(Continued on next page >)



PUSH-FIT CAPS

DM & DMS Series
Round Vinyl End Caps (continued)



See pages 64 and 65 for Application Wizards

A = To Fit		Item No.			Color	Bulk Pack Qty		
in	mm	1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)		1/2 in	1 in	1 - 1/2 in
0.875	22.23	DM0875-1/2A	DM0875-1A	DM0875-1-1/2A	Black	5000	2500	1250
0.875	22.23	DMS0875-1/2A	DMS0875-1A	DMS0875-1-1/2A	Red	5000	2500	1250
0.937	23.80	DM0937-1/2A	DM0937-1A	DM0937-1-1/2A	Black	2500	2500	1000
0.937	23.80	—	DMS0937-1A	—	Red	—	2500	—
0.985	25.02	DM0985-1/2A	DM0985-1A	DM0985-1-1/2A	Black	2500	1500	1250
1.000	25.40	DM1000-1/2A	DM1000-1A	DM1000-1-1/2A	Black	2500	2000	1250
1.000	25.40	DMS1000-1/2A	DMS1000-1A	DMS1000-1-1/2A	Red	2500	2000	1250
1.062	26.97	DM1062-1/2A	DM1062-1A	DM1062-1-1/2A	Black	3000	1500	1250
1.062	26.97	—	DMS1062-1A	—	Red	—	1500	—
1.090	27.69	DM1090-1/2A	DM1090-1A	DM1090-1-1/2A	Black	2000	1000	500
1.125	28.58	DM1125-1/2A	DM1125-1A	DM1125-1-1/2A	Black	1000	1000	500
1.125	28.58	DMS1125-1/2A	DMS1125-1A	DMS1125-1-1/2A	Red	1000	1000	500
1.187	30.15	DM1187-1/2A	DM1187-1A	DM1187-1-1/2A	Black	2500	1000	1000
1.187	30.15	—	DMS1187-1A	—	Red	—	1000	—
1.250	31.75	DM1250-1/2A	DM1250-1A	DM1250-1-1/2A	Black	2500	1000	700
1.250	31.75	DMS1250-1/2A	DMS1250-1A	DMS1250-1-1/2A	Red	2500	1000	700
1.312	33.32	DM1312-1/2A	DM1312-1A	DM1312-1-1/2A	Black	2000	1000	500
1.375	34.93	DM1375-1/2A	DM1375-1A	DM1375-1-1/2A	Black	2000	1000	650
1.375	34.93	—	DMS1375-1A	—	Red	—	1000	—
1.437	36.50	DM1437-1/2A	DM1437-1A	DM1437-1-1/2A	Black	1000	1000	600
1.500	38.10	DM1500-1/2A	DM1500-1A	DM1500-1-1/2A	Black	1000	1000	600
1.500	38.10	DMS1500-1/2A	DMS1500-1A	DMS1500-1-1/2A	Red	1000	1000	600
1.593	40.46	DM1593-1/2A	DM1593-1A	DM1593-1-1/2A	Black	1700	1000	500
1.625	41.28	DM1625-1/2A	DM1625-1A	DM1625-1-1/2A	Black	500	750	500
1.625	41.28	—	DMS1625-1A	DMS1625-1-1/2A	Red	—	750	500
1.687	42.85	DM1687-1/2A	DM1687-1A	DM1687-1-1/2A	Black	1000	500	400
1.687	42.85	—	DMS1687-1A	—	Red	—	500	—
1.750	44.45	DM1750-1/2A	DM1750-1A	DM1750-1-1/2A	Black	1000	500	500
1.750	44.45	—	DMS1750-1A	DMS1750-1-1/2A	Red	—	500	500
1.812	46.02	DM1812-1/2A	DM1812-1A	DM1812-1-1/2A	Black	1000	500	400
1.875	47.63	DM1875-1/2A	DM1875-1A	DM1875-1-1/2A	Black	700	625	400
1.875	47.63	—	DMS1875-1A	—	Red	—	625	—
1.937	49.19	DM1937-1/2A	DM1937-1A	DM1937-1-1/2A	Black	1000	550	400
2.000	50.80	DM2000-1/2A	DM2000-1A	DM2000-1-1/2A	Black	1000	550	400
2.000	50.80	DMS2000-1/2A	DMS2000-1A	DMS2000-1-1/2A	Red	1000	550	400
2.125	53.98	DM2125-1/2A	DM2125-1A	DM2125-1-1/2A	Black	500	400	300
2.125	53.98	—	DMS2125-1A	—	Red	—	400	—
2.156	54.76	DM2156-1/2A	DM2156-1A	DM2156-1-1/2A	Black	1000	550	250
2.250	57.15	DM2250-1/2A	DM2250-1A	DM2250-1-1/2A	Black	250	500	300
2.250	57.15	—	DMS2250-1A	DMS2250-1-1/2A	Red	—	500	300
2.375	60.33	DM2375-1/2A	DM2375-1A	DM2375-1-1/2A	Black	500	350	250
2.460	62.48	DM2460-1/2A	DM2460-1A	DM2460-1-1/2A	Black	1000	350	200
2.500	63.50	DM2500-1/2A	DM2500-1A	DM2500-1-1/2A	Black	500	300	200
2.500	63.50	—	DMS2500-1A	DMS2500-1-1/2A	Red	—	300	200
2.625	66.68	DM2625-1/2A	DM2625-1A	DM2625-1-1/2A	Black	500	250	250
2.687	68.25	DM2687-1/2A	DM2687-1A	DM2687-1-1/2A	Black	400	250	200
2.750	69.85	DM2750-1/2A	DM2750-1A	DM2750-1-1/2A	Black	500	250	250
2.750	69.85	—	DMS2750-1A	—	Red	—	250	—
2.875	73.03	DM2875-1/2A	DM2875-1A	DM2875-1-1/2A	Black	500	250	200
3.000	76.20	DM3000-1/2A	DM3000-1A	DM3000-1-1/2A	Black	500	300	200
3.000	76.20	—	DMS3000-1A	DMS3000-1-1/2A	Red	—	300	200
3.125	79.38	—	DM3125-1A	DM3125-1-1/2A	Black	—	250	150
3.125	79.38	—	DMS3125-1A	—	Red	—	250	150
3.250	82.55	—	DM3250-1A	DM3250-1-1/2A	Black	—	100	100
3.250	82.55	—	DMS3250-1A	—	Red	—	100	—
3.375	85.73	—	DM3375-1A	DM3375-1-1/2A	Black	—	200	150
3.500	88.90	DM3500-1/2A	DM3500-1A	DM3500-1-1/2A	Black	—	175	100
3.500	88.90	—	DMS3500-1A	—	Red	—	175	—
3.625	92.08	—	DM3625-1A	DM3625-1-1/2A	Black	—	150	100
3.750	95.25	—	DM3750-1A	DM3750-1-1/2A	Black	—	100	100
3.750	95.25	—	DMS3750-1A	—	Red	—	100	—
3.825	97.16	—	DM3825-1A	DM3825-1-1/2A	Black	—	150	100
3.875	98.43	—	DM3875-1A	DM3875-1-1/2A	Black	—	100	100
4.000	101.60	DM4000-1/2A	DM4000-1A	DM4000-1-1/2A	Black	—	150	100
4.000	101.60	—	DMS4000-1A	DMS4000-1-1/2A	Red	—	150	100
4.125	104.78	—	DM4125-1A	DM4125-1-1/2A	Black	—	100	100
4.187	106.35	—	DM4187-1A	DM4187-1-1/2A	Black	—	100	100
4.250	107.95	—	DM4250-1A	DM4250-1-1/2A	Black	—	150	100
4.375	111.13	—	DM4375-1A	DM4375-1-1/2A	Black	—	100	50
4.500	114.30	DM4500-1/2A	DM4500-1A	DM4500-1-1/2A	Black	—	150	75
4.750	120.65	—	DM4750-1A	DM4750-1-1/2A	Black	—	85	100
5.000	127.00	—	DM5000-1A	DM5000-1-1/2A	Black	—	125	50
5.187	131.75	—	DM5187-1A	DM5187-1-1/2A	Black	—	50	50
5.375	136.53	—	DM5375-1A	DM5375-1-1/2A	Black	—	100	50
5.500	139.70	DM5500-1/2A	DM5500-1A	DM5500-1-1/2A	Black	—	50	50
5.750	146.05	—	DM5750-1A	DM5750-1-1/2A	Black	—	50	50
6.000	152.40	—	DM6000-1A	DM6000-1-1/2A	Black	—	50	50
6.250	158.75	—	DM6250-1A	DM6250-1-1/2A	Black	—	50	50
6.500	165.10	DM6500-1/2A	DM6500-1A	DM6500-1-1/2A	Black	—	50	50
6.750	171.45	—	DM6750-1A	DM6750-1-1/2A	Black	—	25	50
7.000	177.80	—	DM7000-1A	DM7000-1-1/2A	Black	—	25	25
7.250	184.15	—	DM7250-1A	DM7250-1-1/2A	Black	—	50	50
7.500	190.50	—	DM7500-1A	DM7500-1-1/2A	Black	—	50	25
7.750	196.85	—	DM7750-1A	DM7750-1-1/2A	Black	—	50	50
8.000	203.20	—	DM8000-1A	DM8000-1-1/2A	Black	—	50	25

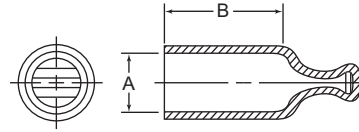


DMPC Series
Easy-Pull Vinyl Caps



Specifications:

- Material: Vinyl (PVC)
- Color: Black
- Temperature Range: Up to 350°F (177°C)
- For high temperature up to 425°F (218°C) see page 71



Features:

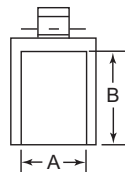
- The curved pull-tab design provides more surface contact area requiring less gripping force during installation and removal
- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Glossy and attractive finish makes this part ideal for use as a decorative end cap

A = To Fit		Item No.			Bulk Pack Qty		
In	mm	1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)	1/2 in	1 in	1 - 1/2 in
0.187	4.75	DMPC0180-1/2A	DMPC0180-1A	—	5000	5000	—
0.218	5.54	DMPC0207-1/2A	DMPC0207-1A	—	5000	5000	—
0.250	6.35	DMPC0240-1/2A	DMPC0240-1A	—	5000	5000	—
0.302	7.67	DMPC0302-1/2A	DMPC0302-1A	DMPC0302-1-1/2A	7500	5000	2500
0.320	8.13	DMPC0320-1/2A	DMPC0320-1A	DMPC0320-1-1/2A	5000	5000	2500
0.343	8.71	DMPC0343-1/2A	DMPC0343-1A	DMPC0343-1-1/2A	5000	3000	2500
0.375	9.53	DMPC0365-1/2A	DMPC0365-1A	DMPC0365-1-1/2A	5000	3000	2000
0.406	10.32	DMPC0396-1/2A	DMPC0396-1A	DMPC0396-1-1/2A	5000	5000	2500
0.420	10.67	DMPC0420-1/2A	DMPC0420-1A	DMPC0420-1-1/2A	5000	5000	2500
0.437	11.10	DMPC0427-1/2A	DMPC0427-1A	DMPC0427-1-1/2A	5000	4000	2500
0.450	11.43	DMPC0450-1/2A	DMPC0450-1A	DMPC0450-1-1/2A	5000	4000	2500
0.472	11.99	DMPC0470-1/2A	DMPC0470-1A	DMPC0470-1-1/2A	5000	4000	2500
0.500	12.70	DMPC0490-1/2A	DMPC0490-1A	DMPC0490-1-1/2A	5000	4000	2000
0.531	13.49	DMPC0521-1/2A	DMPC0521-1A	DMPC0521-1-1/2A	5000	4000	2500
0.562	14.27	DMPC0552-1/2A	DMPC0552-1A	DMPC0552-1-1/2A	2500	2500	2500
0.593	15.06	DMPC0590-1/2A	DMPC0590-1A	DMPC0590-1-1/2A	2500	1900	1500
0.600	15.24	DMPC0600-1/2A	DMPC0600-1A	DMPC0600-1-1/2A	5000	2500	2500
0.615	15.62	DMPC0615-1/2A	DMPC0615-1A	DMPC0615-1-1/2A	5000	2500	2000
0.625	15.88	DMPC0625-1/2A	DMPC0625-1A	DMPC0625-1-1/2A	2500	1350	1500
0.655	16.64	DMPC0655-1/2A	DMPC0655-1A	DMPC0655-1-1/2A	2000	2500	1500
0.677	17.20	DMPC0677-1/2A	DMPC0677-1A	DMPC0677-1-1/2A	5000	2500	1500
0.687	17.45	DMPC0687-1/2A	DMPC0687-1A	DMPC0687-1-1/2A	2500	2000	1500
0.708	17.98	DMPC0708-1/2A	DMPC0708-1A	DMPC0708-1-1/2A	2500	2000	1500
0.750	19.05	DMPC0740-1/2A	DMPC0740-1A	DMPC0740-1-1/2A	4000	2500	1500
0.812	20.62	DMPC0812-1/2A	DMPC0812-1A	DMPC0812-1-1/2A	2500	2000	750
0.875	22.23	DMPC0865-1/2A	DMPC0865-1A	DMPC0865-1-1/2A	1500	1500	750
0.937	23.79	DMPC0937-1/2A	DMPC0937-1A	DMPC0937-1-1/2A	1500	1500	750
1.000	25.40	DMPC0990-1/2A	DMPC0990-1A	DMPC0990-1-1/2A	1500	1500	750
1.060	26.92	—	DMPC1060-1A	DMPC1060-1-1/2A	—	1000	700
1.125	28.58	—	DMPC1125-1A	DMPC1125-1-1/2A	—	1000	700
1.250	31.75	—	DMPC1230-1A	DMPC1230-1-1/2A	—	1000	700
1.500	38.10	—	DMPC1500-1A	DMPC1500-1-1/2A	—	700	250
1.625	41.28	—	DMPC1605-1A	DMPC1605-1-1/2A	—	550	350

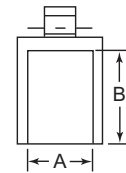
FEC Series
Flexible End Caps



Type 1



Type 2



Specifications:

- Material: Thermoplastic Elastomer
- Temperature Range: 203°F (95°C)
- Color: Black

Features:

- Flexible material can stretch onto larger diameters for a snug fit
- Good resistance to acids
- Can be used with Masking Hooks on page 85



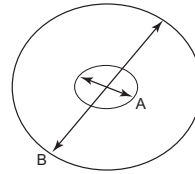
Item No.	Type	A		B		Bulk Pack Qty
		In	mm	In	mm	
1340242	2	0.157	4.0	0.945	24.0	10000
12200B	1	0.197	5.0	0.925	23.5	10000
1341946	2	0.236	6.0	0.984	25.0	10000
1287248	2	0.276	7.0	0.945	24.0	10000
1287251	2	0.315	8.0	0.965	24.5	8000
12204B	1	0.354	9.0	0.984	25.0	7000
1341978	2	0.394	10.0	1.161	29.5	5000
1341987	2	0.433	11.0	1.142	29.0	4500
12207B	1	0.472	12.0	1.142	29.0	4000
1341981	2	0.512	13.0	1.142	29.0	3500
12209B	1	0.551	14.0	1.161	29.5	3000
12210B	1	0.591	15.0	1.161	29.5	2500
12211B	1	0.630	16.0	1.102	28.0	2500
12212B	1	0.669	17.0	1.161	29.5	2000

Item No.	Type	A		B		Bulk Pack Qty
		In	mm	In	mm	
12213B	2	0.709	18.0	1.122	28.5	2000
1287245	2	0.748	19.0	1.161	29.5	2000
1341984	2	0.787	20.0	1.122	28.5	1600
12216B	1	0.827	21.0	1.358	34.5	1300
12217B	2	0.866	22.0	1.339	34.0	1200
12218B	2	0.906	23.0	1.358	34.5	1000
1341988	2	0.945	24.0	1.339	34.0	1000
12220B	2	0.984	25.0	1.358	34.5	1000
12221B	2	1.024	26.0	1.358	34.5	900
12222B	2	1.063	27.0	1.319	33.5	900
1287254	2	1.102	28.0	1.319	33.5	800
12224B	2	1.142	29.0	1.378	35.0	800
1287243	2	1.181	30.0	1.358	34.5	600



PUSH-FIT CAPS

MCP Series Stretch Fit Cover Caps



Specifications:

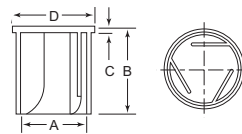
- Material: Polyethylene
- Color: See Table

Features:

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

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

MFC Series Finned Stud Caps



Type 1

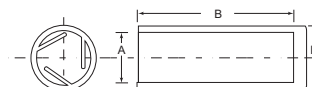


Specifications:

- Material: Low-Density Polyethylene
- Color: Natural

Features:

- Unique finned design enables each cap to fit a range of stud diameters
- The MFC010A* has beveled corners

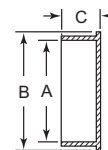
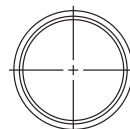


Type 2



Item No.	Stud Size Range		Type	A		B		C		D		Bulk Pack Qty
	in	mm		in	mm	in	mm	in	mm	in	mm	
MFC110A	0.255 - 0.314	6.5 - 8.0	1	0.394	10	0.866	22	0.059	1.5	0.551	14.0	500
MFC010A*	0.255 - 0.314	6.5 - 8.0	2	0.394	10	1.299	33	—	—	0.433	11.0	5000
MFC120A	0.314 - 0.354	8.0 - 9.0	1	0.433	11	0.866	22	0.059	1.5	0.591	15.0	500
MFC020A	0.314 - 0.354	8.0 - 9.0	2	0.433	11	0.866	22	—	—	0.472	12.0	5000
MFC030A	0.354 - 0.393	9.0 - 10	2	0.472	12	0.866	22	—	—	0.511	13.0	5000
MFC130A	0.354 - 0.413	9.0 - 10.5	1	0.492	12.5	0.866	22	0.059	1.5	0.650	16.5	250
MFC140A	0.433 - 0.512	11.0 - 13.0	1	0.630	16	0.866	22	0.059	1.5	0.787	20.0	250
MFC150A	0.551 - 0.629	14.0 - 16.0	1	0.709	18	0.866	22	0.059	1.5	0.866	22.0	250
MFC160A	0.669 - 0.748	17.0 - 19.0	1	0.866	22	0.866	22	0.059	1.5	1.024	26.0	100
MFC170A	0.787 - 0.866	20.0 - 22.0	1	0.984	25	0.984	25	0.059	1.5	1.142	29.0	100
MFC180A	0.944 - 1.023	24.0 - 26.0	1	1.142	29	1.181	30	0.059	1.5	1.299	33.0	100
MFC190A	1.102 - 1.181	28.0 - 30.0	1	1.299	33	1.339	34	0.059	1.5	1.457	37.0	100

MC Series Meter Caps



Specifications:

- Material: Low-Density Polyethylene
- Color: Black

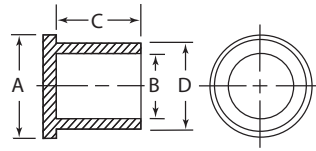
Features:

- Designed to protect threads on gas and water meters
- Remains on the unit until installation

Item No.	Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
• MC5LT	5LT	1.114	28.3	1.380	35.1	0.640	16.3	2500
MC10LT	10LT	1.415	35.9	1.670	42.4	0.640	16.3	1500
MC1S	#1 Sprague	1.600	40.6	1.820	46.2	0.610	15.5	1200
• MC1P	#1 Pittsburgh	1.610	40.9	1.870	47.5	0.640	16.3	1200
MC20LT	20LT	1.808	45.9	2.070	52.6	0.640	16.3	1000
MC2S	#2 Sprague	1.850	47.0	2.110	53.6	0.640	16.3	1000
MC30LT	30 LT	2.028	51.5	2.290	58.2	0.670	17.0	750
MC45LT	45LT	2.252	57.2	2.510	63.8	0.870	22.1	500
MC3S	#3 Sprague	2.316	58.8	2.580	65.5	0.940	23.9	500



E Series Flanged Caps for Standard Threads



Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

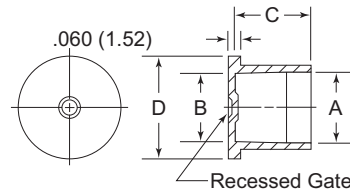
Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect standard threads with or without O-Rings



Item No.		To Cap Standard Thread	A		B		C		D		Bulk Pack Qty
Natural	Orange		in	mm	in	mm	in	mm	in	mm	
E5/16C	E5/16A	5/16	0.510	12.95	0.315	8.00	0.840	21.33	0.377	9.57	5000
—	E3/8A	3/8	0.531	13.49	0.364	9.25	0.590	16.67	0.428	10.87	5000
E3/8AA	—	3/8	0.580	14.73	0.377	9.58	0.840	21.34	0.447	11.35	5000
EL3/8B	EL3/8A	3/8	0.520	13.21	0.370	9.40	1.280	32.51	0.440	11.18	5000
E7/16A	—	7/16	0.625	15.88	0.428	10.87	0.590	14.99	0.492	12.50	4250
E7/16CATB	—	7/16	0.625	15.88	0.429	10.90	0.600	15.24	0.491	12.47	4250
EL7/16B	EL7/16A	7/16	0.580	14.73	0.428	10.87	1.020	25.91	0.495	12.57	5000
—	EL7/16AA	7/16	0.580	14.73	0.425	10.79	1.330	33.98	0.487	12.37	2800
E1/2A	—	1/2	0.720	18.29	0.490	12.45	0.460	11.68	0.550	13.97	4000
EL1/2A	—	1/2	0.640	16.25	0.490	12.45	1.330	33.78	0.552	14.02	2800
EL9/16A	—	9/16	0.700	17.78	0.550	13.97	1.410	35.81	0.620	15.75	2500
E9/16A	—	9/16	0.810	20.57	0.551	14.00	0.490	12.45	0.621	15.77	5900
E5/8B	E5/8A	5/8	0.813	20.64	0.606	15.39	0.750	19.05	0.677	17.20	4000
EL5/8A	—	5/8	0.760	19.30	0.625	15.88	0.840	21.34	0.687	17.48	3000
E11/16B	—	11/16	0.935	23.75	0.675	17.14	0.500	17.15	0.745	12.70	4000
—	EL11/16A	11/16	0.840	21.33	0.678	17.22	0.880	22.35	0.748	18.99	2500
E3/4B	E3/4A	3/4	1.000	25.40	0.720	18.29	0.688	17.46	0.794	20.17	3000
E3/4CATA	—	3/4	1.000	25.40	0.729	18.52	0.625	15.88	0.786	19.96	3000
EL3/4D	EL3/4A	3/4	0.890	22.61	0.740	18.80	1.540	39.12	0.813	20.65	2500
E13/16A	—	13/16	1.060	26.92	0.800	20.32	0.570	14.48	0.870	22.10	2500
—	K324A	13/16	1.060	20.64	0.605	15.37	0.845	21.50	0.665	16.89	3500
E7/8SA	—	7/8	1.120	28.45	0.864	21.95	0.690	17.53	0.926	23.52	4000
—	E7/8A	7/8	1.096	27.84	0.860	21.84	0.875	22.23	0.933	23.70	3500
E7/8CATB	—	7/8	1.096	27.84	0.865	21.97	0.832	21.13	0.921	23.39	3500
EL7/8B	EL7/8A	7/8	1.010	25.65	0.860	21.84	1.700	43.18	0.929	23.60	2000
E1A	—	1	1.246	31.65	0.993	25.22	0.660	16.76	1.056	26.82	1500
—	E1-1/16A	1 - 1/16	1.187	30.15	1.030	26.16	1.062	27.98	1.092	27.74	2000
E1-1/16CATB	—	1 - 1/16	1.288	32.72	1.043	26.49	0.688	17.48	1.114	28.30	2800
E1-3/16B	—	1 - 3/16	1.432	36.37	1.172	29.77	0.760	19.30	1.242	31.55	2000
E1-5/16B	—	1 - 5/16	1.567	39.80	1.302	33.07	0.760	19.30	1.372	34.85	1800
E1-7/16B	—	1 - 7/16	1.697	43.10	1.432	36.37	0.760	19.30	1.502	38.15	1500
E1-5/8B	—	1 - 5/8	1.875	47.63	1.615	41.02	0.835	21.21	1.685	42.80	1100
E1-11/16B	—	1 - 11/16	1.928	48.97	1.668	42.37	0.835	21.21	1.738	44.15	1000
E1-7/8A	E1-7/8B	1 - 7/8	2.131	54.13	1.871	47.52	0.960	24.38	1.941	49.30	900
E2B	E2A	2	2.256	57.30	1.994	50.65	1.085	27.56	2.064	52.43	600
E2-1/2A	—	2 - 1/2	2.756	70.00	2.491	63.27	1.210	30.73	2.566	65.18	350

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

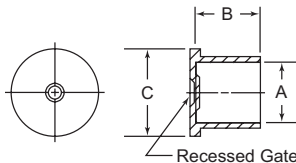


Item No.	To Cap NPT Thread	A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
ECS0125A	1/8"	0.399	10.13	0.383	9.73	0.380	9.65	0.660	16.76	10000
ECS0250A	1/4"	0.533	13.54	0.510	12.90	0.530	13.46	0.810	20.57	9000
ECS0375A	3/8"	0.669	16.99	0.644	16.36	0.530	13.46	0.940	23.88	5000
ECS0500A	1/2"	0.833	21.16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



PUSH-FIT CAPS FOR THREADS

ECM Series Flanged Caps for Metric Threads



Specifications:

- Material: Low-Density Polyethylene
- Color: Natural

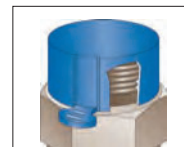
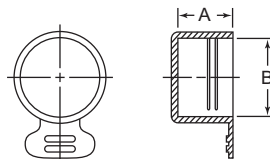
Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect metric threads with or without O-Rings

Item No.	To Cap Metric Thread	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
ECM10A	M10	0.385	9.78	0.665	16.89	0.530	13.50	8000
ECM12A	M12	0.463	11.75	0.470	11.95	0.768	19.50	7000
ECM14A	M14	0.540	13.72	0.470	11.95	0.846	21.50	5000
ECM16A	M16	0.617	15.67	0.470	11.95	0.925	23.50	5000
ECM18A	M18	0.696	17.68	0.470	11.95	1.004	25.50	3000

Item No.	To Cap Metric Thread	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
ECM20A	M20	0.774	19.66	0.553	14.05	1.083	27.50	2500
ECM22A	M22	0.855	21.72	0.553	14.05	1.161	29.50	3000
ECM33A	M33	1.285	32.64	0.687	17.45	1.590	40.39	2000
ECM38A	M38	1.481	37.62	0.748	19.00	1.751	44.50	1000
ECM42A	M42	1.640	41.68	0.748	19.00	1.948	49.50	1000

TS Series Tear Tab Caps for SAE/JIC Threads



Specifications:

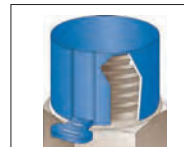
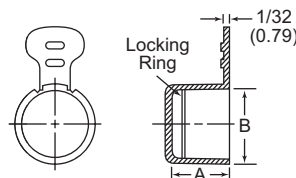
- Material: Low-Density Polyethylene
- Color: See Table

Features:

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

Item No.		To Cap Standard Thread	SAE/JIC Fitting Size	A		B		Bulk Pack Qty
Natural	Blue			in	mm	in	mm	
TS3B	TS3A	3/8" - 24	3	0.437	11.10	0.364	9.25	6500
TS4B	TS4A	7/16" - 20	4	0.460	11.68	0.433	11.00	5500
TS5B	TS5A	1/2" - 20	5	0.460	11.68	0.490	12.45	4500
TS6B	TS6A	9/16" - 18	6	0.475	12.07	0.551	14.00	7000
TS7B	TS7A	11/16" - 16	7	0.475	12.07	0.675	17.15	5000
TS8B	TS8A	3/4" - 16	8	0.560	14.22	0.740	18.80	3500
TS9B	TS9A	13/16" - 16	9	0.560	14.22	0.802	20.37	3000
TS10B	TS10A	7/8" - 14	10	0.650	16.51	0.873	22.17	4500
TS11B	TS11A	1" - 14	11	0.650	16.51	0.986	25.04	4000
TS12B	TS12A	1-1/16" - 12	12	0.750	19.05	1.053	26.75	3000
TS13B	TS13A	1-3/16" - 12	13	0.750	19.05	1.172	29.77	2700
TS16B	TS16A	1-5/16" - 12	16	0.750	19.05	1.302	33.07	2200
TS17B	TS17A	1-7/16" - 12	17	0.750	19.05	1.432	36.37	2000
TS20B	TS20A	1-5/8" - 12	20	0.825	20.96	1.615	41.02	1300
TS21B	TS21A	1-11/16" - 12	21	0.825	20.96	1.668	42.37	1200
TS24B	TS24A	1-7/8" - 12	24	0.950	24.13	1.871	47.52	900
TS32B	TS32A	2-1/2" - 12	32	1.200	30.48	2.491	63.27	400

Y Series Tear Tab Caps for NPT Threads



Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

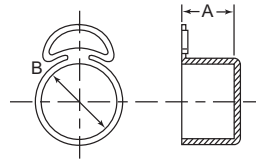
Features:

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

See pages 64 and 65 for Application Wizards

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

PUSH-FIT CAPS FOR THREADS


TSM Series
Tear Tab Caps for Metric Threads


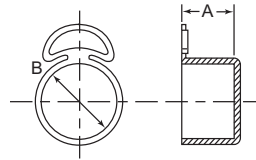
Specifications:

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

Features:

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

Item No.	To Cap Metric Thread	A		B		Color	Bulk Pack Qty
		in	mm	in	mm		
TSM12A	M12	0.472	12.00	0.472	12.00	Yellow	5000
TSM14A	M14	0.551	14.00	0.555	14.10	Yellow	5000
TSM16A	M16	0.634	16.10	0.650	16.50	Yellow	5000
TSM18A	M18	0.709	18.00	0.709	18.00	Yellow	4000
TSM20B	M20	0.787	20.00	0.787	20.00	Natural	2000
TSM22A	M22	0.866	22.00	0.866	22.00	Yellow	2000

TSB Series
Tear Tab Caps for BSP Threads


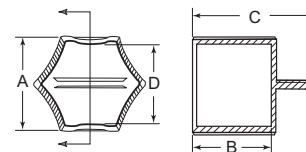
Specifications:

- Material: Low-Density Polyethylene
- Color: Yellow

Features:

- Designed with a tear tab for easy removal
- Made to protect BSP/Gas threads from damage but versatile enough to be used in numerous applications

Item No.	To Cap BSP/Gas Thread	A		B		Bulk Pack Qty
		in	mm	in	mm	
TSB10351A	1/4" x 19	0.433	11.00	0.512	13.00	10000
TSB10492A	3/8" x 19	0.472	12.00	0.630	16.00	5000
TSB10308A	1/2" x 14	0.591	15.00	0.835	21.20	4000
TSB12373A	5/8" x 14	0.728	18.50	0.906	23.00	3000
TSB10701A	3/4" x 14	0.937	23.80	1.035	26.30	1500
TSB12375A	7/8" x 14	0.984	25.00	1.161	29.50	1500
TSB12376A	1" x 11	0.709	18.00	1.339	34.00	1500

HEX Series
Hexagonal Caps


Specifications:

- Material: Polyethylene
- Color: Natural

Features:

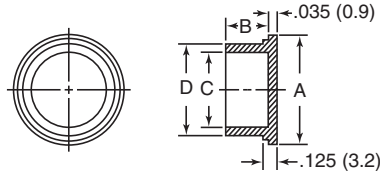
- Rigid design allows easy application and removal
- Available in all common hydraulic coupling sizes
- Also suitable for protecting round components

Item No.	To Fit Thread Sizes			A		B		C		D		Bulk Pack Qty
	UNF	Metric	BSP	in	mm	in	mm	in	mm	in	mm	
HEX100A	—	M10	—	0.433	11	0.630	16	1.102	28	0.421	10.7	500
HEX105A	7/16	M12	1/8	0.551	14	0.709	18	1.181	30	0.539	13.7	500
HEX110A	—	—	—	0.630	16	0.787	20	1.260	32	0.618	15.7	500
HEX115A	1/2	M14	—	0.669	17	0.787	20	1.260	32	0.657	16.7	500
HEX120A	9/16	M16	1/4	0.748	19	0.984	25	1.535	39	0.736	18.7	500
HEX125A	3/4	M18	3/8	0.866	22	0.984	25	1.535	39	0.850	21.6	500
HEX130A	—	—	—	0.945	24	1.102	28	1.654	42	0.929	23.6	500
HEX135A	—	—	—	0.984	25	1.102	28	1.654	42	0.969	24.6	250
HEX140A	7/8	M22	1/2	1.063	27	1.102	28	1.654	42	1.047	26.6	250
HEX145A	—	—	—	1.142	29	1.181	30	1.732	44	1.126	28.6	250
HEX150A	—	M24	5/8	1.181	30	1.181	30	1.732	44	1.165	29.6	250
HEX155A	1 - 1/16	M26	3/4	1.260	32	1.181	30	1.732	44	1.244	31.6	250
HEX160A	—	M30	—	1.417	36	1.181	30	1.732	44	1.398	35.5	250
HEX165A	—	—	—	1.496	38	1.220	31	1.772	45	1.476	37.5	100
HEX170A	1 - 5/16	M36	1	1.614	41	1.220	31	1.772	45	1.594	40.5	100
HEX175A	—	—	—	1.811	46	1.260	32	1.811	46	1.791	45.5	100
HEX180A	1 - 5/8	M45	1 - 1/4	1.969	50	1.260	32	1.811	46	1.949	49.5	100



PUSH-FIT CAPS FOR THREADS

FC CAP Series Circular Connector Caps

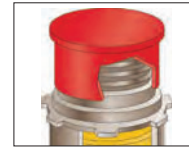


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

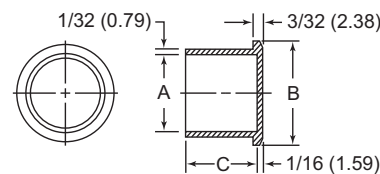
Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect electrical connectors per Mil Spec 90376
- See page 47 if plug is needed



Item No.	MS90376 Dash No.	To Cap Connector	A		B		C		D		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
FC708A	MS90376-8R	1/2	0.740	18.80	0.500	12.70	0.480	12.19	0.540	13.72	5000
FC710A	MS90376-10R	5/8	0.840	21.34	0.500	12.70	0.605	15.37	0.665	16.89	6000
FC712A	MS90376-12R	3/4	0.970	24.62	0.500	12.70	0.720	18.29	0.775	19.69	5500
FC714A	MS90376-14R	7/8	1.125	28.58	0.500	12.70	0.850	21.59	0.905	22.99	3000
FC716A	MS90376-16R	1	1.220	30.99	0.500	12.70	0.973	24.71	1.035	26.29	3300
FC718A	MS90376-18R	1 - 1/8	1.330	33.78	0.562	14.27	1.093	27.76	1.155	29.34	2500
FC19RA	MS90376-19R	1 - 3/16	1.430	36.32	0.562	14.27	1.168	29.67	1.238	31.45	2300
FC720A	MS90376-20R	1 - 1/4	1.465	37.21	0.562	14.27	1.231	31.27	1.301	33.05	2200
FC722A	MS90376-22R	1 - 3/8	1.580	40.39	0.562	14.27	1.340	34.04	1.410	35.81	1800
FC23RA	MS90376-23R	1 - 7/16	1.650	41.91	0.562	14.27	1.408	35.76	1.478	37.54	1200
FC724A	MS90376-24R	1 - 1/2	1.709	43.41	0.562	14.27	1.463	37.16	1.533	38.94	1500
FC726A	MS90376-26R	1 - 5/8	1.810	45.97	0.562	14.27	1.590	40.39	1.660	42.16	1250
FC728A	MS90376-28R	1 - 3/4	1.950	49.53	0.562	14.27	1.715	43.56	1.790	45.47	1000
FC732A	MS90376-32R	2	2.220	56.39	0.562	14.27	1.965	49.91	2.040	51.82	900
FC736A	MS90376-36R	2 - 1/4	2.435	61.85	0.600	15.24	2.215	56.26	2.290	58.17	700
FC740A	MS90376-40R	2 - 1/2	2.660	67.56	0.600	15.24	2.440	61.98	2.530	64.26	550
FC744A	MS90376-44R	2 - 3/4	2.960	75.18	0.600	15.24	2.720	69.09	2.812	71.42	450

D Series Flanged Connector Caps

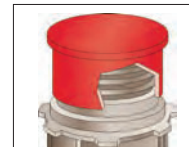


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect connectors with standard threads



Item No.	To Cap Std. Threaded Connector	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
D1/4A	1/4	0.240	6.10	0.480	12.19	0.500	12.70	5000
D3/8A	3/8	0.360	9.14	0.625	15.88	0.500	12.70	5000
D1/2A	1/2	0.477	12.12	0.750	19.05	0.500	12.70	7000
D9/16A	9/16	0.551	14.00	0.781	19.84	0.500	12.70	6000
D5/8A	5/8	0.593	15.06	0.875	22.23	0.500	12.70	4500
D3/4A	3/4	0.716	18.19	1.000	25.40	0.487	12.37	3500
D7/8A	7/8	0.841	21.36	1.125	28.58	0.491	12.47	2500
D15/16A	15/16	0.930	23.62	1.156	29.36	0.547	13.89	2000
D1A	1	0.960	24.38	1.250	31.75	0.500	12.70	2000
D1-1/8A	1 - 1/8	1.092	27.74	1.375	34.93	0.563	14.29	1500
D1-3/16A	1 - 3/16	1.176	29.87	1.438	36.51	0.563	14.29	3000
D1-1/4A	1 - 1/4	1.207	30.66	1.500	38.10	0.563	14.29	3000
D1-3/8A	1 - 3/8	1.348	34.24	1.625	41.28	0.563	14.29	2500
D1-7/16A	1 - 7/16	1.407	35.74	1.688	42.86	0.563	14.29	2200
D1-1/2A	1 - 1/2	1.458	37.03	1.719	43.66	0.563	14.29	2000
D1-3/4A	1 - 3/4	1.730	43.94	1.969	50.01	0.563	14.29	1500

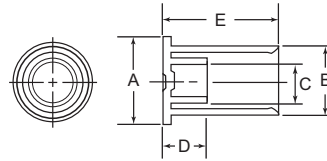


OFR Series O-Ring Face-Fitting Caps for UNF/JIC Threads



Specifications:

- Material: Low-Density Polyethylene
- Color: See Table



Features:

- Designed to protect O-Ring face seal connectors used on hydraulic connections
- Designed with a longer overall length and includes a molded retaining ring at the bottom that snaps under the connector for added security



Item No.	To Cap UNF Thread	A		B		C		D		E		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
Blue												
OFR4B	9/16" - 18	0.938	23.80	0.771	19.58	0.500	12.70	0.330	8.30	0.690	17.50	3000
OFR6B	11/16" - 16	1.125	28.40	0.903	22.93	0.625	16.00	0.370	9.40	0.770	19.60	2500
OFR8A	13/16" - 16	1.219	31.00	1.052	26.72	0.750	19.10	0.430	10.90	0.930	23.60	3000
OFR10A	1" - 14	1.438	36.50	1.255	31.50	0.906	23.00	0.530	13.50	1.040	26.40	2000
OFR12A	1 - 3/16" - 12	1.688	42.70	1.530	38.86	1.093	27.70	0.570	14.50	1.140	28.80	1200
OFR16A	1 - 7/16" - 12	2.000	50.80	1.804	45.82	1.343	34.10	0.580	14.70	1.210	30.70	900
OFR20A	1 - 11/16" - 12	2.250	57.20	2.093	53.16	1.593	40.50	0.580	14.70	1.210	30.70	700
OFR24A	2" - 12	2.719	69.00	2.520	64.01	1.875	47.60	0.580	14.70	1.210	30.70	450

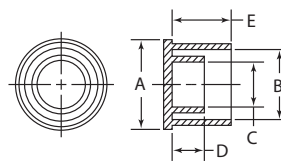
Item No.	To Cap JIC Thread	JIC Fitting Size	A		B		C		D		E		Bulk Pack Qty	
			in	mm	in	mm	in	mm	in	mm	in	mm		
Blue														
OFR100A	OFR100B	7/16" - 20	4	0.770	19.60	0.712	18.08	0.370	9.40	0.420	10.67	0.710	18.03	3000
OFR110A	OFR110B	9/16" - 18	6	0.950	24.10	0.864	21.95	0.500	12.80	0.420	10.67	0.840	21.34	2500
OFR120A	OFR120B	3/4" - 16	8	1.160	29.30	1.067	27.10	0.670	17.00	0.430	10.92	0.930	23.62	1200
OFR130A	OFR130B	7/8" - 14	10	1.280	32.50	1.192	30.28	0.780	19.80	0.500	12.70	1.050	26.67	1200
OFR140A	OFR140B	1 - 1/16" - 12	12	1.580	40.10	1.489	37.82	0.960	24.40	0.570	14.48	1.150	29.21	1200
OFR150A	OFR150B	1 - 5/16" - 12	16	1.880	47.80	1.766	44.86	1.220	30.90	0.590	14.99	1.210	30.73	1000

OR Series O-Ring Face-Fitting Caps for UNF Threads



Specifications:

- Material: Low-Density Polyethylene
- Color: Blue



Features:

- Designed to protect O-Ring face seal connectors used on hydraulic connections



Item No.	To Cap UNF Thread	A		B		C		D		E		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
OR4A	9/16" - 18	0.875	22.23	0.768	19.51	0.500	12.70	0.326	8.28	0.578	14.68	3500
OR6A	11/16" - 16	1.000	25.40	0.901	22.89	0.594	15.08	0.370	9.40	0.672	17.07	2500
OR8A	13/16" - 16	1.156	29.37	1.053	26.75	0.750	19.05	0.430	10.92	0.828	21.03	3000
OR10A	1" - 14	1.375	34.93	1.260	32.00	0.906	23.02	0.530	13.46	0.922	23.42	2000
OR12A	1 - 3/16" - 12	1.625	41.28	1.535	38.99	1.094	27.78	0.560	14.48	1.031	26.19	1200
OR16A	1 - 7/16" - 12	1.844	46.83	1.804	45.82	1.344	34.13	0.580	14.73	1.094	27.78	900
OR20A	1 - 11/16" - 12	2.125	53.98	2.093	53.16	1.594	40.48	0.580	14.73	1.094	27.78	700
OR24B	2" - 12	2.688	68.26	2.520	64.01	1.875	47.63	0.580	14.73	1.094	27.78	450



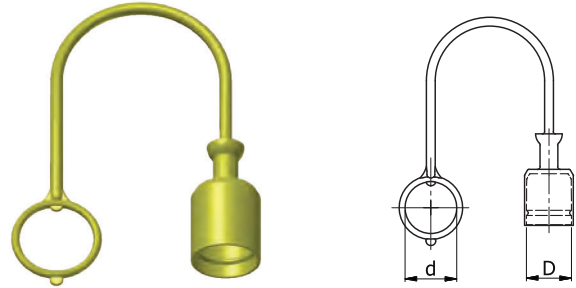
Hydraulic Quick Release Dust Caps

Specifications:

- Material: Thermoplastic Elastomer
- Color: See Table

Features:

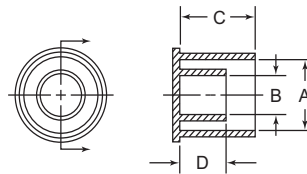
- Suitable to cap ISO 7241-1 Series A and B Quick Couplings
- Designed to remain attached to a hose
- Excellent protection from dirt, moisture and corrosion
- Temperature Range: -40°F - 275°F (-40°C - 135°C)
- See page 51 if plug is needed



Item No.					D		d		Bulk Pack Qty	
Red	Yellow	Green	Blue	Size	Series	mm	in	mm	in	
498796	499736	499746	499756	1/4	ISO A	12.7	0.500	20.0	0.787	150
498797	499737	499747	499757	3/8	ISO A	18.3	0.720	25.0	0.984	150
498798	499738	499748	499758	1/2	ISO A	24.3	0.957	28.0	1.102	150
498799	499739	499749	499759	3/4	ISO A	30.7	1.209	35.0	1.378	150
498800	499740	499750	499760	1	ISO A	36.5	1.437	42.0	1.654	150
498801	499741	499751	499761	1/4	ISO B	15.5	0.610	20.0	0.787	150
498802	499742	499752	499762	3/8	ISO B	20.0	0.787	23.0	0.906	150
498803	499743	499753	499763	1/2	ISO B	25.7	1.012	28.0	1.102	150
498804	499744	499754	499764	3/4	ISO B	32.7	1.287	34.0	1.339	150
498805	499745	499755	499765	1	ISO B	40.5	1.594	43.0	1.693	150

M Series

Tube and Nut Assembly Caps



Specifications:

- Materials: Low-Density Polyethylene
- Color: Red

Features:

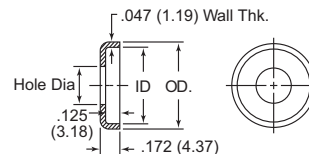
- Designed to protect flareless hydraulic tube and nut assemblies
- Features a double cap design; the outside cap conforms to the hex shape of the nut, the inside cap covers the tube and sleeve inside the nut to hold the assembly in place
- The MCA and MCM Series are frequently applied to automobile air conditioning tube and nut assemblies



Item No.	To Cap Tube Size	A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
M2A	1/8	0.391	9.93	0.172	4.37	0.580	14.73	0.400	10.16	6000
M3A	3/16	0.456	11.58	0.236	5.99	0.630	16.00	0.410	10.41	8500
M4A	1/4	0.606	15.39	0.283	7.19	0.650	16.51	0.380	9.65	5000
M5A	5/16	0.655	16.64	0.352	8.94	0.810	20.57	0.540	13.72	3500
M6A	3/8	0.740	18.80	0.440	11.18	0.845	21.46	0.545	13.84	2800
M8A	1/2	0.914	23.22	0.567	14.40	0.905	22.99	0.540	13.72	1800
M10A	5/8	1.044	26.52	0.670	17.02	1.030	26.16	0.647	16.43	2500
M12A	3/4	1.324	33.62	0.851	21.62	1.045	26.54	0.643	16.33	1600
M16A	1	1.564	39.73	1.060	26.92	1.097	27.86	0.550	13.97	1100
M20A	1 - 1/4	2.090	53.09	1.320	33.53	1.104	28.04	0.625	15.88	650
M24A	1 - 1/2	2.345	59.56	1.535	38.99	1.078	27.38	0.620	15.75	550
MCA10A	3/8 female	0.799	20.29	0.326	8.28	0.610	15.49	0.211	5.36	2800
MCA12A	1/2 female	0.930	23.62	0.450	11.43	0.750	19.05	0.315	8.00	3500
MCA17A	3/4 female	1.330	33.78	0.684	17.37	1.060	26.92	0.315	8.00	1500
MCM10A	3/8 male	0.612	15.54	0.326	8.28	0.800	20.32	0.211	5.36	3500
MCM12A	1/2 male	0.735	18.67	0.450	11.43	1.000	25.40	0.315	8.00	2000

W Series

Hose Washer Caps



Specifications:

- Material: See Table
- Color: See Table

Features:

- Applied on hose and tube ends in order to prevent them from sliding over the fittings



Item No.	Ø Hole		I.D.		O.D.		Color	Material	Bulk Pack Qty
	in	mm	in	mm	in	mm			
W6A	0.320	8.13	0.589	14.96	0.685	17.40	Yellow	LDPE	4750
W6C	0.320	8.13	0.589	14.96	0.685	17.40	Black	TPE	4750
W8A	0.445	11.30	0.760	19.30	0.860	21.84	Yellow	LDPE	4000
W8C	0.445	11.30	0.760	19.30	0.860	21.84	Black	TPE	4000
W10A	0.575	14.61	0.870	22.10	0.968	24.59	Yellow	LDPE	5000
W10C	0.575	14.61	0.870	22.10	0.968	24.59	Black	TPE	5000

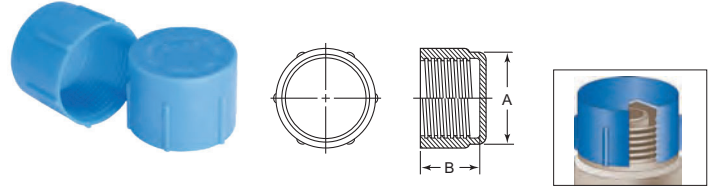
Item No.	Ø Hole		I.D.		O.D.		Color	Material	Bulk Pack Qty
	in	mm	in	mm	in	mm			
W13A	0.700	17.78	1.040	26.42	1.141	28.98	Yellow	LDPE	7000
W13C	0.700	17.78	1.040	26.42	1.141	28.98	Black	TPE	6500
W15A	0.828	21.03	1.165	29.59	1.266	32.16	Yellow	LDPE	5000
W15C	0.828	21.03	1.165	29.59	1.266	32.16	Black	TPE	5000
W20A	1.050	26.67	1.300	33.02	1.400	35.56	Yellow	LDPE	5000
W20C	1.050	26.67	1.300	33.02	1.400	35.56	Black	TPE	5000



G Series
UNF/JIC Threaded Caps for Flared/Flareless Fittings

Specifications:

- Material: Low-Density Polyethylene
- Color: Blue



Features:

- Threaded cap with rolled threads allows you to thread or push on for easy application
- Protects flared and flareless fittings against dirt, dents and moisture

See pages 64 and 65 for Application Wizards

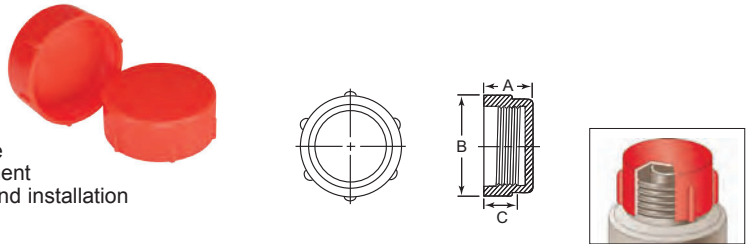
Item No.	UNF/JIC Thread Size	Tubing Size	JIC Fitting Size	A		B		Bulk Pack Qty
				in	mm	in	mm	
G1A	3/8 - 24	3/16	3	0.437	11.11	0.469	11.91	5000
G2A	7/16 - 20	1/4	4	0.500	12.70	0.500	12.70	5000
G3A	7/16 - 24	1/4	4	0.500	12.70	0.313	7.94	4500
G4A	1/2 - 20	5/16	5	0.563	14.29	0.313	7.94	6500
G5A	1/2 - 20	5/16	5	0.563	14.29	0.500	12.70	4500
G6A	1/2 - 26	—	—	0.563	14.29	0.500	12.70	4250
G7A	1/2 - 20	5/16	5	0.563	14.29	0.875	22.23	5000
G8A	9/16 - 18	3/8	6	0.625	15.88	0.500	12.70	6500
G9A	5/8 - 18	3/8	—	0.687	17.46	0.500	12.70	6000
G11A	5/8 - 18	3/8	—	0.687	17.46	0.563	14.29	5000
G12A	5/8 - 18	3/8	—	0.687	17.46	0.813	20.64	3500
G13A	5/8 - 24	—	—	0.687	17.46	0.375	9.53	4250
G14A	3/4 - 16	1/2	8	0.813	20.64	0.625	15.88	3500
G15A	3/4 - 18	—	—	0.813	20.64	0.906	23.02	2500

Item No.	UNF/JIC Thread Size	Tubing Size	JIC Fitting Size	A		B		Bulk Pack Qty
				in	mm	in	mm	
G16A	3/4 - 20	—	—	0.813	20.64	0.437	11.11	5000
G17A	7/8 - 14	5/8	10	0.937	23.81	0.719	18.26	2400
G18A	7/8 - 14	5/8	10	0.937	23.81	1.000	25.40	3500
G19A	7/8 - 18	—	—	0.937	23.81	0.437	11.11	3500
G20A	7/8 - 18	—	—	0.937	23.81	0.781	19.84	4500
G21A	1 - 14	—	—	1.063	26.99	0.781	19.84	3500
G22A	1 - 1/16 - 12	3/4	12	1.125	28.58	0.813	20.64	3000
G23A	1 - 1/16 - 14	3/4	—	1.125	28.58	0.813	20.64	3000
G24A	1 - 1/16 - 16	—	—	1.125	28.58	1.000	25.40	2500
G25A	1 - 3/16 - 12	7/8	14	1.250	31.75	0.937	23.81	2000
G26A	1 - 1/4 - 18	—	—	1.375	34.93	0.469	11.91	3500
G27A	1 - 5/16 - 12	1	16	1.375	34.93	0.875	22.23	2000
G30A	1 - 5/8 - 12	1 - 1/4	20	1.750	44.45	0.906	23.02	1200

Threaded Caps

Specifications:

- Material: Low-Density Polyethylene
- Color: Red



Features:

- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy-to-grip head for ease of hand installation

TCUNF Series
UNF/JIC Threaded Caps

Item No.	To Cap UNF/JIC Thread Size	Tubing Size	JIC Fitting Size	A		B		C		Bulk Pack Qty
				in	mm	in	mm	in	mm	
10251A	3/8 x 24	3/16	3	0.327	8.30	0.433	11.00	0.157	4.00	5000
10332A	7/16 x 20	1/4	4	0.508	12.90	0.524	13.30	0.315	8.00	5000
12652A	7/16 x 24	1/4	—	0.539	13.70	0.524	13.30	0.307	7.80	5000
10528A	1/2 x 20	5/16	5	0.531	13.50	0.571	14.50	0.374	9.50	5000
11041A	9/16 x 18	3/8	6	0.531	13.50	0.65	16.50	0.374	9.50	5000
10653A	5/8 x 18	3/8	—	0.614	15.60	0.717	18.20	0.295	7.50	5000
12847A	3/4 x 16	1/2	8	0.543	13.80	0.854	21.70	0.374	9.50	4000
12825A	13/16 x 16	—	—	0.602	15.30	0.917	23.30	0.366	9.30	1250
11089A	7/8 x 14	5/8	10	0.795	20.20	0.98	24.90	0.567	14.40	2500
12075A	7/8 x 18	—	—	0.787	20.00	0.996	25.30	0.551	14.00	2500
12826A	1 x 14	—	—	0.677	17.20	1.087	27.60	0.472	12.00	2500
10685A	1 - 1/16 x 12	3/4	12	0.748	19.00	1.157	29.40	0.433	11.00	2000
10163A	1 - 3/16 x 12	7/8	14	0.752	19.10	1.287	32.70	0.512	13.00	1500
10151A	1 - 5/16 x 12	1	16	0.874	22.20	1.433	36.40	0.571	14.50	1000
12654A	1 - 3/8 x 12	—	—	0.965	24.50	1.472	37.40	0.413	10.50	1000
10185A	1 - 7/16 x 12	—	—	0.854	21.70	1.531	38.90	0.598	15.20	1000
11053A	1 - 5/8 x 12	1-1/4	20	0.866	22.00	1.764	44.80	0.551	14.00	800
11804A	1 - 7/8 x 12	1-1/2	24	0.984	25.00	1.98	50.30	0.591	15.00	500

TCMETRIC Series
Metric Threaded Caps

Item No.	To Cap Metric Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
12100A	M8 x 1	0.394	10.00	0.472	12.00	0.295	7.50	5000
12101A	M10 x 1	0.394	10.00	0.539	13.70	0.295	7.50	5000
12102A	M12 x 1	0.472	12.00	0.622	15.80	0.374	9.50	5000
12103A	M12 x 1.5	0.472	12.00	0.618	15.70	0.374	9.50	5000
12104A	M14 x 1.5	0.472	12.00	0.697	17.70	0.374	9.50	5000
12650A	M14 x 1.5	0.827	21.00	0.701	17.80	0.354	9.00	5000
12105A	M16 x 1.5	0.472	12.00	0.776	19.70	0.374	9.50	5000
12651A	M16 x 1.5	0.827	21.00	0.787	20.00	0.354	9.00	5000
12106A	M18 x 1.5	0.551	14.00	0.850	21.60	0.453	11.50	4000
12107A	M20 x 1.5	0.551	14.00	0.925	23.50	0.374	9.50	4000

Item No.	To Cap Metric Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
12108A	M22 x 1.5	0.543	13.80	1.024	26.00	0.453	11.50	3000
12845A	M22 x 1.5	0.965	24.50	1.024	26.00	0.689	17.50	2500
12109A	M24 x 1.5	0.551	14.00	1.142	29.00	0.453	11.50	3000
12110A	M25 x 1.5	0.551	14.00	1.122	28.50	0.453	11.50	2000
12111A	M26 x 1.5	0.551	14.00	1.181	30.00	0.453	11.50	2000
12967A	M28 x 1.5	0.488	12.40	1.260	32.00	0.551	14.00	2000
12122A	M30 x 2	0.453	11.50	1.339	34.00	0.610	15.50	1500
12123A	M36 x 2	0.630	16.00	1.587	40.30	0.531	13.50	1500
12124A	M42 x 2	0.630	16.00	1.831	46.50	0.531	13.50	500
12126A	M52 x 2	0.630	16.00	2.224	56.50	0.531	13.50	500

TCBSP Series
BSP Threaded Caps

Item No.	To Cap BSP/Gas Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
10392A	1/8 x 28	0.472	12.00	0.465	11.80	0.256	6.50	5000
10559A	1/4 x 19	0.433	11.00	0.583	14.80	0.315	8.00	5000
10104A	3/8 x 19	0.445	11.30	0.736	18.70	0.291	7.40	5000
10198A	1/2 x 14	0.531	13.50	0.913	23.20	0.276	7.00	5000
11157A	5/8 x 14	0.618	15.70	1.000	25.40	0.394	10.00	3000
10205A	3/4 x 14	0.697	17.70	1.157	29.40	0.441	11.20	2000
10970A	7/8 x 14	0.768	19.50	1.276	32.40	0.492	12.50	1500

Item No.	To Cap BSP/Gas Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
10204A	1 x 11	0.748	19.00	1.417	36.00	0.571	14.50	1500
10167A	1 - 1/4 x 11	0.780	19.80	1.748	44.40	0.512	13.00	1000
10432A	1 - 1/2 x 11	0.807	20.50	1.980	50.30	0.551	14.00	700
10968A	2 x 11	0.827	21.00	2.437	61.90	0.591	15.00	400
12954A	2-1/4 x 11	0.984	25.00	2.815	71.50	0.689	17.50	350
12905A	2-1/2 x 11	1.087	27.60	3.067	77.90	0.748	19.00	300



**TSC Series
UNF/Metric Threaded Sealing Caps**

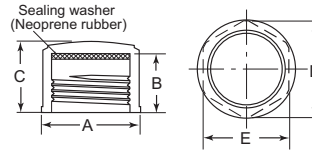


Specifications:

- Material: High-Density Polyethylene
- Color: Yellow

Features:

- This cap includes a neoprene sealing disk to limit fluid leakage
- The HDPE material reduces the potential of shearing



Unified Threads

Item No.	To Cap Thread Size	A		B		C		D		E		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
TSC467054A	1/4" - 28	0.393	10.00	0.452	11.50	0.531	13.50	0.346	8.80	0.314	8.00	500
TSC467055A	3/8" - 24	0.511	13.00	0.492	12.50	0.570	14.50	0.476	12.10	0.433	11.00	500
TSC467056A	7/16" - 24	0.610	15.50	0.492	12.50	0.570	14.50	0.562	14.30	0.511	13.00	500
TSC467057A	7/16" - 20	0.610	15.50	0.511	13.00	0.590	15.00	0.562	14.30	0.511	13.00	500
TSC467058A	1/4" - 28	0.689	17.50	0.511	13.00	0.590	15.00	0.649	16.50	0.590	15.00	500
TSC467059A	9/16" - 18	0.728	18.50	0.531	13.50	0.610	15.50	0.688	17.50	0.629	16.00	500
TSC467060A	5/8" - 18	0.826	21.00	0.531	13.50	0.610	15.50	0.775	19.70	0.708	18.00	500
TSC467061A	3/4" - 16	0.944	24.00	0.570	14.50	0.649	16.50	0.905	23.00	0.826	21.00	500
TSC467062A	13/16" - 16	1.043	26.50	0.570	14.50	0.649	16.50	0.992	25.20	0.905	23.00	500
TSC467063A	7/8" - 18	1.082	27.50	0.531	13.50	0.610	15.50	1.035	26.30	0.944	24.00	500
TSC467064A	7/8" - 14	1.082	27.50	0.610	15.50	0.688	17.50	1.035	26.30	0.944	24.00	250
TSC467065A	1" - 14	1.220	31.00	0.610	15.50	0.688	17.50	1.165	29.60	1.062	27.00	250
TSC467066A	1 - 1/16" - 12	1.358	34.50	0.649	16.50	0.728	18.50	1.295	32.90	1.181	30.00	250
TSC467067A	1 - 3/16" - 12	1.437	36.50	0.649	16.50	0.728	18.50	1.381	35.10	1.259	32.00	250
TSC467068A	1 - 5/16" - 12	1.614	41.00	0.649	16.50	0.728	18.50	1.555	39.50	1.417	36.00	250
TSC467069A	1 - 3/8" - 12	1.692	43.00	0.649	16.50	0.728	18.50	1.641	41.70	1.496	38.00	250
TSC467070A	1 - 7/16" - 12	1.791	45.50	0.649	16.50	0.728	18.50	1.728	43.90	1.574	40.00	250
TSC467071A	1 - 5/8" - 12	2.007	51.00	0.649	16.50	0.748	19.00	1.944	49.40	1.771	45.00	100
TSC467072A	1 - 3/4" - 16	2.145	54.50	0.570	14.50	0.669	17.00	2.070	52.60	1.889	48.00	100
TSC467073A	1-7/8" - 12	2.322	59.00	0.649	16.50	0.748	19.00	2.244	57.00	2.047	52.00	100

Metric Threads

Item No.	To Cap Thread Size	A		B		C		D		E		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
TSC467033A	M8 x 1	0.472	12.00	0.433	11.00	0.511	13.00	0.433	11.00	0.393	10.00	500
TSC467034A	M10 x 1	0.559	14.20	0.433	11.00	0.511	13.00	0.519	13.20	0.472	12.00	500
TSC467035A	M12 x 1	0.649	16.50	0.433	11.00	0.511	13.00	0.606	15.40	0.551	14.00	500
TSC467036A	M12 x 1.5	0.649	16.50	0.511	13.00	0.590	15.00	0.606	15.40	0.551	14.00	500
TSC467037A	M14 x 1.5	0.728	18.50	0.511	13.00	0.590	15.00	0.689	17.50	0.629	16.00	500
TSC467038A	M16 x 1.5	0.826	21.00	0.511	13.00	0.590	15.00	0.775	19.70	0.708	18.00	500
TSC467039A	M18 x 1.5	0.905	23.00	0.511	13.00	0.590	15.00	0.862	21.90	0.787	20.00	500
TSC467040A	M20 x 1.5	0.984	25.00	0.511	13.00	0.590	15.00	0.948	24.10	0.866	22.00	500
TSC467041A	M22 x 1.5	1.082	27.50	0.511	13.00	0.590	15.00	1.035	26.30	0.944	24.00	250
TSC467042A	M24 x 1.5	1.181	30.00	0.511	13.00	0.590	15.00	1.122	28.50	1.023	26.00	250
TSC467043A	M25 x 1.5	1.220	31.00	0.511	13.00	0.590	15.00	1.165	29.60	1.063	27.00	250
TSC467044A	M26 x 1.5	1.259	32.00	0.511	13.00	0.590	15.00	1.208	30.70	1.102	28.00	250
TSC467045A	M28 x 1.5	1.338	34.00	0.511	13.00	0.590	15.00	1.295	32.90	1.181	30.00	250
TSC467046A	M30 x 1.5	1.437	36.50	0.511	13.00	0.590	15.00	1.381	35.10	1.259	32.00	250
TSC467047A	M30 x 2	1.437	36.50	0.590	15.00	0.669	17.00	1.381	35.10	1.259	32.00	250
TSC467048A	M36 x 1.5	1.752	44.50	0.551	14.00	0.629	16.00	1.685	42.80	1.535	39.00	100
TSC467049A	M36 x 2	1.752	44.50	0.629	16.00	0.708	18.00	1.685	42.80	1.535	39.00	100
TSC467050A	M42 x 2	2.007	51.00	0.629	16.00	0.728	18.50	1.944	49.40	1.771	45.00	100
TSC467051A	M45 x 1.5	2.145	54.50	0.551	14.00	0.649	16.50	2.070	52.60	1.889	48.00	100
TSC467052A	M45 x 2	2.145	54.50	0.629	16.00	0.728	18.50	2.070	52.60	1.889	48.00	100
TSC467053A	M52 x 2	2.440	62.00	0.629	16.00	0.728	18.50	2.374	60.30	2.165	55.00	100



HOSE PROTECTION

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SPIRALGUARD



BP Series Barrel Plugs

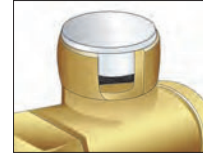
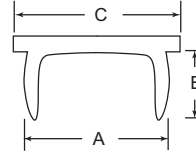


Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

Features:

- General purpose plug for a wide range of applications
- Quick to fit and remove
- Convexed sides to ensure secure fit

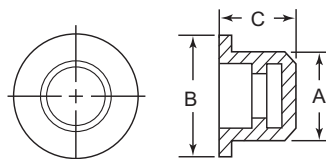


See pages 64 and 65 for Application Wizards

Item No.	Color	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
BP1000A	Natural	0.083	2.1	0.276	7.0	0.138	3.5	1000
BP1002A	Natural	0.102	2.6	0.157	4.0	0.472	12.0	1000
BP1004A	Natural	0.106	2.7	0.236	6.0	0.472	12.0	1000
BP1006A	Natural	0.130	3.3	0.236	6.0	0.472	12.0	1000
054044922003	Black	0.173	4.4	0.197	5.0	0.354	9.0	1000
BP1008A	Natural	0.173	4.4	0.205	5.2	0.354	9.0	1000
054047769903	Black	0.181	4.6	0.197	5.0	0.276	7.0	1000
BP1010A	Natural	0.181	4.6	0.197	5.0	0.276	7.0	1000
494365	Black	0.213	5.4	0.295	7.5	0.472	12.0	500
BP1012A	Natural	0.213	5.4	0.295	7.5	0.472	12.0	10000
BP1014A	Natural	0.248	6.3	0.157	4.0	0.378	9.6	1000
494366	Black	0.287	7.3	0.236	6.0	0.551	14.0	500
BP1018A	Natural	0.287	7.3	0.236	6.0	0.551	14.0	10000
494367	Black	0.331	8.4	0.236	6.0	0.551	14.0	500
BP1020A	Natural	0.331	8.4	0.236	6.0	0.551	14.0	10000
055008822003	Black	0.346	8.8	0.315	8.0	0.453	11.5	500
BP1022A	Natural	0.346	8.8	0.315	8.0	0.453	11.5	500
055009322003	Black	0.366	9.3	0.354	9.0	0.472	12.0	500
BP1024A	Natural	0.366	9.3	0.354	9.0	0.472	12.0	500
494368	Black	0.366	9.3	0.177	4.5	0.551	14.0	500
BP1026A	Natural	0.366	9.3	0.177	4.5	0.551	14.0	6000
BP1028A	Natural	0.366	9.3	0.268	6.8	0.630	16.0	6000
054100322003	Black	0.394	10.0	0.157	4.0	0.472	12.0	500
BP1030A	Natural	0.394	10.0	0.157	4.0	0.472	12.0	500
BP1032A	Natural	0.394	10.0	0.354	9.0	0.591	15.0	500
BP1034A	Natural	0.421	10.7	0.236	6.0	0.551	14.0	6000
494369	Black	0.421	10.7	0.236	6.0	0.551	14.0	500
BP1036A	Natural	0.421	10.7	0.354	9.0	0.583	14.8	500
BP1038A	Natural	0.445	11.3	0.217	5.5	0.567	14.4	1000
494370	Black	0.469	11.9	0.276	7.0	0.630	16.0	500
BP1040A	Natural	0.469	11.9	0.276	7.0	0.630	16.0	5000
494371	Black	0.484	12.3	0.276	7.0	0.630	16.0	500
BP1042A	Natural	0.484	12.3	0.276	7.0	0.630	16.0	5000
494372	Black	0.504	12.8	0.307	7.8	0.787	20.0	500
BP1044A	Natural	0.504	12.8	0.307	7.8	0.787	20.0	5000
BP1046A	Natural	0.539	13.7	0.276	7.0	0.736	18.7	1000
494373	Black	0.539	13.7	0.315	8.0	0.787	20.0	500
12787A	Natural	0.539	13.7	0.315	8.0	0.787	20.0	5000
1255332	Natural	0.551	14.0	0.276	7.0	0.736	18.7	1000
494374	Black	0.571	14.5	0.217	5.5	0.787	20.0	500
BP1052A	Natural	0.571	14.5	0.217	5.5	0.787	20.0	5000
BP1054A	Natural	0.575	14.6	0.374	9.5	0.728	18.5	500
BP1056A	Natural	0.591	15.0	0.276	7.0	0.736	18.7	1000
494375	Black	0.614	15.6	0.315	8.0	0.787	20.0	500
BP1058A	Natural	0.614	15.6	0.315	8.0	0.787	20.0	5000
BP1060A	Natural	0.650	16.5	0.276	7.0	0.736	18.7	1000
12790A	Natural	0.669	17.0	0.323	8.2	0.866	22.0	5000
BP1064A	Natural	0.701	17.8	0.354	9.0	0.969	24.6	1000
494377	Black	0.724	18.4	0.315	8.0	0.984	25.0	500
BP1066A	Natural	0.724	18.4	0.315	8.0	0.984	25.0	5000
BP1068A	Natural	0.740	18.8	0.354	9.0	0.846	21.5	500
494378	Black	0.760	19.3	0.315	8.0	0.984	25.0	500
12792B	Natural	0.760	19.3	0.315	8.0	0.984	25.0	5000
BP1072A	Natural	0.768	19.5	0.354	9.0	0.969	24.6	1000
BP1074A	Natural	0.791	20.1	0.354	9.0	0.969	24.6	500
BP1076A	Natural	0.807	20.5	0.354	9.0	1.004	25.5	250

Item No.	Color	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
BP1078A	Natural	0.807	20.5	0.421	10.7	1.181	30.0	3000
055021022003	Black	0.827	21.0	0.496	12.6	1.007	25.6	500
BP1080A	Natural	0.827	21.0	0.496	12.6	1.007	25.6	250
BP1082A	Natural	0.835	21.2	0.295	7.5	0.984	25.0	5000
494379	Black	0.854	21.7	0.315	8.0	0.984	25.0	500
BP1084A	Natural	0.854	21.7	0.315	8.0	0.984	25.0	4000
494380	Black	0.882	22.4	0.354	9.0	1.102	28.0	500
BP1086A	Natural	0.882	22.4	0.354	9.0	1.102	28.0	4000
BP1088A	Natural	0.906	23.0	0.760	19.3	1.079	27.4	100
494381	Black	0.921	23.4	0.354	9.0	1.102	28.0	500
BP1090A	Natural	0.921	23.4	0.354	9.0	1.102	28.0	4000
BP1092A	Natural	0.945	24.0	0.504	12.8	1.063	27.0	100
494382	Black	0.969	24.6	0.354	9.0	1.102	28.0	500
BP1094A	Natural	0.969	24.6	0.354	9.0	1.102	28.0	3000
BP1096A	Natural	0.976	24.8	0.236	6.0	1.240	31.5	100
BP1098A	Natural	0.984	25.0	0.512	13.0	1.260	32.0	100
494383	Black	1.004	25.5	0.295	7.5	1.102	28.0	500
BP1100A	Natural	1.004	25.5	0.295	7.5	1.102	28.0	3000
494384	Black	1.043	26.5	0.354	9.0	1.102	28.0	500
BP1102A	Natural	1.043	26.5	0.354	9.0	1.102	28.0	4000
BP1104A	Natural	1.063	27.0	0.591	15.0	1.165	29.6	100
BP1106A	Natural	1.083	27.5	0.472	12.0	1.370	34.8	500
BP1108A	Natural	1.126	28.6	0.591	15.0	1.339	34.0	100
BP1110A	Natural	1.142	29.0	0.472	12.0	1.417	36.0	3000
494385	Black	1.201	30.5	0.472	12.0	1.417	36.0	500
BP1112A	Natural	1.201	30.5	0.472	12.0	1.417	36.0	2500
BP1114A	Natural	1.252	31.8	0.394	10.0	1.417	36.0	2000
BP1116A	Natural	1.283	32.6	0.472	12.0	1.370	34.8	500
494386	Black	1.319	33.5	0.472	12.0	1.417	36.0	500
BP1118A	Natural	1.319	33.5	0.472	12.0	1.417	36.0	2000
BP1120A	Natural	1.319	33.5	0.472	12.0	1.614	41.0	100
BP1122A	Natural	1.370	34.8	0.591	15.0	1.654	42.0	2000
BP1124A	Natural	1.398	35.5	0.591	15.0	1.831	46.5	100
BP1126A	Natural	1.437	36.5	0.591	15.0	1.654	42.0	1500
BP1128A	Natural	1.480	37.6	0.472	12.0	1.591	40.4	500
BP1130A	Natural	1.512	38.4	0.591	15.0	1.654	42.0	2000
BP1134A	Natural	1.598	40.6	0.591	15.0	1.732	44.0	1000
BP1136A	Natural	1.665	42.3	0.591	15.0	1.890	48.0	1000
BP1138A	Natural	1.705	43.3	0.591	15.0	1.988	50.5	100
BP1140A	Natural	1.811	46.0	0.709	18.0	2.165	55.0	1500
BP1142A	Natural	1.988	50.5	0.551	14.0	2.244	57.0	100
BP1144A	Natural	2.028	51.5	0.709	18.0	2.165	55.0	1500
BP1146A	Natural	2.067	52.5	0.551	14.0	2.362	60.0	100
BP1148A	Natural	2.130	54.1	0.709	18.0	2.311	58.7	500
BP1150A	Natural	2.177	55.3	0.768	19.5	2.343	59.5	100
BP1152A	Natural	2.283	58.0	0.709	18.0	2.520	64.0	750
BP1154A	Natural	2.346	59.6	0.709	18.0	2.894	73.5	500
BP1156A	Natural	2.756	70.0	0.709	18.0	3.071	78.0	500
BP1158A	Natural	2.902	73.7	0.685	17.4	3.240	82.3	500
BP1160A	Natural	3.181	80.8	0.685	17.4	3.642	92.5	250
BP1162A	Natural	3.346	85.0	0.709	18.0	3.681	93.5	50
BP1164A	Natural	3.406	86.5	0.685	17.4	3.909	99.3	250
BP1166A	Natural	3.890	98.8	0.685	17.4	4.409	112.0	250
BP1168A	Natural	4.350	110.5	0.709	18.0	5.118	130.0	50
BP1170A	Natural	4.398	111.7	0.685	17.4	4.843	123.0	250

FT Series
TPR, PVC & Vinyl Plugs



Specifications:

- Materials: Thermoplastic Rubber, PVC or Vinyl
- Color: See Table

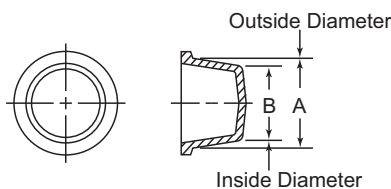
Features:

- Highly resistant to shredding
- Ideal for threaded applications
- Thermoplastic rubber is recommended for use wherever resistance to acid is required
- PVC is highly resistant to shredding and ideal for threaded applications
- Green Vinyl works well with oils and greases



Item No.			A		B		C		Bulk Pack Qty		
Black TPR	Black PVC	Green Vinyl	in	mm	in	mm	in	mm	Black TPR	Black PVC	Green Vinyl
18071B	10874A	—	0.125	3.20	0.276	7.00	0.354	9.00	10000	10000	10000
12049B	12665A	—	0.197	5.00	0.433	11.00	0.471	11.99	10000	10000	10000
12050B	12666A	11806	0.236	5.99	0.472	11.99	0.471	11.99	10000	10000	5000
12051B	12667A	11817	0.275	6.99	0.511	12.98	0.471	11.99	10000	10000	5000
12052B	12668A	11808	0.315	8.00	0.551	14.00	0.471	11.99	10000	10000	10000
12053B	12669A	11829	0.354	8.99	0.580	14.99	0.471	11.99	10000	10000	5000
12054B	12670A	11807	0.393	9.98	0.629	15.98	0.471	11.99	10000	10000	5000
12055B	12671A	11824	0.433	11.00	0.669	16.99	0.471	11.99	10000	10000	10000
12056B	12672A	11809	0.472	11.99	0.787	19.99	0.471	11.99	8000	8000	8000
12057B	12673A	11822	0.511	12.98	0.826	20.98	0.551	14.00	8000	8000	8000
12058B	12674A	11813	0.551	14.00	0.866	22.00	0.551	14.00	6000	7000	7000
12059B	12675A	11830	0.580	14.99	0.905	22.99	0.571	14.50	6000	5000	6000
12060B	12677A	11820	0.630	16.00	0.945	24.00	0.551	14.00	6000	6000	6000
FLP17A	12678A	11811	0.669	17.00	1.063	27.00	0.531	13.50	4000	5000	5000
12062B	12679A	11827	0.709	18.01	1.102	27.99	0.551	14.00	4000	4000	4000
12063B	12680A	11818	0.748	19.00	1.142	29.01	0.551	14.00	4000	2000	2000
12064B	12681A	11812	0.787	19.99	1.181	30.00	0.551	14.00	4000	2000	2000
12065B	12683A	11823	0.827	21.01	1.220	30.99	0.551	14.00	3000	2500	3000
FLP21A	12684A	11828	0.879	22.33	1.260	32.00	0.551	14.00	2500	3000	1500
12067B	12685A	11814	0.906	23.01	1.299	32.99	0.630	16.00	3000	1500	1500
12068B	12686A	11810	0.945	24.00	1.339	34.01	0.630	16.00	2500	2500	2500
12069B	12687A	11816	0.984	24.99	1.378	35.00	0.630	16.00	2000	2000	2000
12070B	12688A	11819	1.024	26.01	1.417	35.99	0.630	16.00	2000	2000	2000
12071B	12689A	11821	1.063	27.00	1.457	37.01	0.630	16.00	2000	2000	2000
12072B	12690A	11825	1.102	27.99	1.496	38.00	0.630	16.00	2000	2000	2000
FLP30A	12692A	11826	1.190	30.23	1.400	35.56	0.630	16.00	1500	1000	1000
12501B	12693A	12078	1.575	40.01	1.969	50.01	0.866	22.00	700	500	700
12502B	12694A	—	1.850	46.99	2.244	57.00	0.866	22.00	500	500	500

DMVP Series
Vinyl Tapered Plugs



Specifications:

- Material: PVC
- Color: Black
- Temperature Range: Up to 350°F (177°C)

Features:

- The flexibility of the material allows these plugs to fit into smaller dimensions for a snug fit
- The tapered design allows the part to plug multiple inner diameters

To Assure Proper Fit:

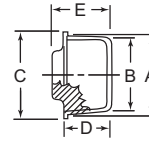
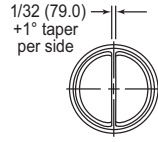


Plug dimension "A" should be approx. 1% larger than the inner diameter of the part.
 Minimum of .020"

Item No.	A		B		Bulk Pack Qty
	in	mm	in	mm	
DMVP0285A	0.290	7.20	0.180	4.40	5000
DMVP0360A	0.360	9.10	0.250	6.40	5000
DMVP0405A	0.410	10.30	0.300	7.50	5000
DMVP0465A	0.470	11.80	0.360	9.00	5000
DMVP0530A	0.530	13.50	0.420	10.70	5000
DMVP0605A	0.610	15.40	0.500	12.60	5000
DMVP0750A	0.750	19.10	0.640	16.30	2000
DMVP0850A	0.850	21.60	0.740	18.80	2500
DMVP1015A	1.020	25.80	0.910	23.00	2500
DMVP1190A	1.190	30.20	1.060	27.40	2000



**CP Series
Center Pull Tab Plugs**



Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

Features:

- The integral center pull tab feature is designed for quick and easy removal
- The tapered design allows the part to plug multiple inner diameters

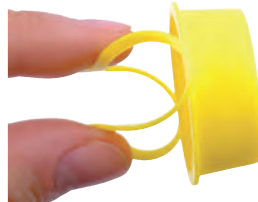
To Assure Proper Fit:



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

Item No.	A		B		C		D		E		Bulk Pack Qty	
Orange	Red	in	mm	in	mm	in	mm	in	mm	in	mm	
CP4A	—	0.269	6.83	0.209	5.31	0.380	9.65	0.340	8.64	0.590	14.99	5000
CP5A	—	0.303	7.69	0.239	6.07	0.469	11.91	0.370	9.39	0.630	16.00	5000
CP6A	—	0.335	8.51	0.267	6.78	0.469	11.91	0.406	10.32	0.625	15.88	5000
CP7A	—	0.370	9.40	0.302	7.67	0.531	13.49	0.375	9.53	0.750	19.05	5000
CP8A	—	0.396	10.06	0.330	8.38	0.530	13.46	0.410	10.41	0.790	20.07	5000
CP9A	—	0.428	10.87	0.362	9.19	0.594	15.08	0.375	9.53	0.750	19.05	7000
CP10A	—	0.463	11.76	0.402	10.21	0.625	15.88	0.375	9.53	0.750	19.05	6000
CP11A	—	0.486	12.34	0.422	10.72	0.625	15.88	0.406	10.32	0.781	19.84	5500
CP12A	—	0.512	13.00	0.448	11.38	0.656	16.67	0.406	10.32	0.563	14.29	5000
—	110033	0.539	13.70	0.461	11.70	0.677	17.20	0.433	11.00	0.866	22.00	5000
—	—	0.548	13.92	0.471	11.96	0.690	17.53	0.470	11.94	0.850	21.59	5000
CP13A	—	0.568	14.43	0.500	12.70	0.719	18.26	0.469	11.91	0.813	20.64	7500
CP14A	—	0.608	15.44	0.532	13.51	0.750	19.05	0.470	11.94	0.780	19.81	6000
CP15B	—	0.633	16.08	0.551	14.00	0.780	19.81	0.500	12.70	0.750	19.05	5000
CP16A	—	0.668	16.97	0.580	14.73	0.813	20.64	0.531	13.49	0.750	19.05	5500
CP18A	—	0.695	17.65	0.610	15.49	0.840	21.34	0.530	13.46	0.780	19.81	5000
CP19A	—	0.720	18.30	0.646	16.40	0.874	22.20	0.484	12.30	0.925	23.50	5000
—	110035	0.787	19.99	0.691	17.55	0.938	23.81	0.594	15.08	0.750	19.05	3500
CP23A	—	0.825	20.96	0.727	18.47	1.000	25.40	0.590	14.99	0.840	21.34	5000
CP24A	—	0.933	23.70	0.819	20.80	1.125	28.58	0.750	19.05	1.000	25.40	4000
CP29A	—	0.973	24.71	0.869	22.07	1.120	28.45	0.750	19.05	1.000	25.40	4000
CP31A	—	1.004	25.50	0.886	22.50	1.138	28.90	0.701	17.80	1.142	29.00	2500
—	10418	1.074	27.28	0.935	23.75	1.156	29.37	0.750	19.05	0.938	23.81	3500
CP35A	—	1.092	27.74	0.967	24.56	1.250	31.75	0.780	19.81	1.030	26.16	2500
CP37A	—	1.146	29.11	1.026	26.06	1.340	34.04	0.750	19.05	1.000	25.40	2500
CP40A	—	1.219	30.96	1.093	27.76	1.410	35.81	0.780	19.81	1.000	25.40	2500
CP42A	—	1.286	32.66	1.150	29.21	1.550	39.37	0.750	19.05	1.000	25.40	2000
CP44A	—	1.360	34.54	1.235	31.37	1.530	38.86	0.750	19.05	1.000	25.40	2000
CP46A	—	1.356	33.22	1.292	32.82	1.500	38.10	0.781	19.84	1.000	25.40	1800
CP47A	—	1.465	37.21	1.312	33.32	1.620	41.15	0.750	19.05	1.000	25.40	1800
CP49A	—	1.527	38.79	1.344	34.14	1.750	44.45	0.880	22.35	1.000	25.40	1500
CP51A	—	1.601	40.67	1.451	36.86	1.750	44.45	0.750	19.05	1.000	25.40	1500
CP55A	—	1.735	44.07	1.615	41.02	1.906	48.42	0.719	18.26	1.125	28.58	1000
CP56A	—	1.835	46.61	1.820	46.23	2.031	51.59	0.500	12.70	0.750	19.05	1500
CP59A	—	1.938	49.23	1.807	45.90	2.160	54.86	1.000	25.40	1.250	31.75	1000
CP57A	—	2.075	52.70	1.898	48.20	2.248	57.10	1.000	25.40	1.039	26.40	300
—	110039	2.243	56.97	2.067	52.50	2.440	61.98	1.030	26.16	1.250	31.75	1000
CP61A	—	2.270	57.66	2.230	56.64	2.530	64.26	0.500	12.70	0.750	19.05	1000
CP63A	—	2.402	61.00	2.165	55.00	2.559	65.00	0.984	25.00	1.024	26.00	400
CP65A	—	2.464	62.59	2.300	58.42	2.660	67.56	1.000	25.40	1.250	31.75	500
—	110041	2.650	67.30	2.335	59.30	2.780	70.60	1.209	30.70	1.240	31.50	150
—	110042	2.764	70.20	2.654	67.40	2.937	74.60	0.984	25.00	1.024	26.00	300
CP71A	—	3.452	87.68	3.320	84.33	3.620	91.95	0.750	19.05	1.000	25.40	200

Tapered Plug with Ring Tab

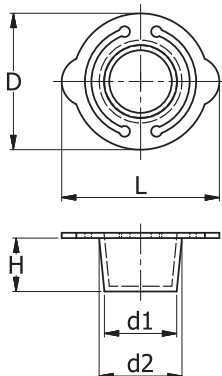


Specifications:

- Material: Low-Density Polyethylene
- Color: Yellow

Features:

- Tapered profile for extended dimensions
- Easy removal of the part with strong ring tab

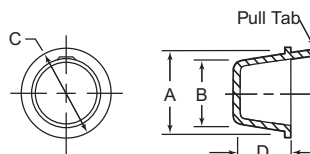


Item No.	d1		d2		H		D		L		Bulk Pack Qty
	mm	in	mm	in	mm	in	mm	in	mm	in	
498716	5.0	0.197	7.0	0.276	9.5	0.374	17.3	0.681	20.3	0.799	1000
498717	6.0	0.236	8.0	0.315	9.5	0.374	18.2	0.717	21.1	0.831	1000
498718	7.0	0.276	9.5	0.374	9.5	0.374	20.3	0.799	23.3	0.917	1000
498719	8.0	0.315	10.0	0.394	9.5	0.374	20.3	0.799	23.2	0.913	1000
498720	9.5	0.374	11.5	0.453	9.5	0.374	21.9	0.862	24.8	0.976	1000
498721	10.5	0.413	12.5	0.492	9.5	0.374	22.6	0.890	26.5	1.043	1000
498722	11.5	0.453	13.5	0.531	9.5	0.374	23.7	0.933	27.5	1.083	1000
498723	12.5	0.492	14.5	0.571	10.0	0.394	24.5	0.965	28.4	1.118	1000
498724	13.5	0.531	15.5	0.61	10.0	0.394	25.5	1.004	29.5	1.161	1000
498725	14.2	0.559	16.2	0.638	10.0	0.394	26.3	1.035	30.3	1.193	1000
498726	14.5	0.571	17.0	0.669	10.0	0.394	27.0	1.063	31.0	1.220	500
498727	15.5	0.610	18.0	0.709	10.0	0.394	28.3	1.114	32.0	1.260	500
498728	17.5	0.689	19.5	0.768	10.0	0.394	30.0	1.181	34.0	1.339	500
498729	18.0	0.709	20.0	0.787	10.0	0.394	30.0	1.181	34.0	1.339	500
498730	19.0	0.748	21.5	0.846	11.0	0.433	32.0	1.260	35.7	1.406	500
498731	21.0	0.827	24.2	0.953	11.0	0.433	34.7	1.366	38.7	1.524	500
498732	22.5	0.886	25.5	1.004	12.0	0.472	36.0	1.417	40.0	1.575	500
498733	25.0	0.984	28.0	1.102	12.0	0.472	38.5	1.516	42.2	1.661	500
498734	29.0	1.142	31.5	1.240	12.0	0.472	41.8	1.646	47.0	1.850	500
498735	29.5	1.161	32.0	1.260	12.0	0.472	42.5	1.673	47.6	1.874	500



PUSH-FIT PLUGS

P Series Side Pull Tab Plugs



Specifications:

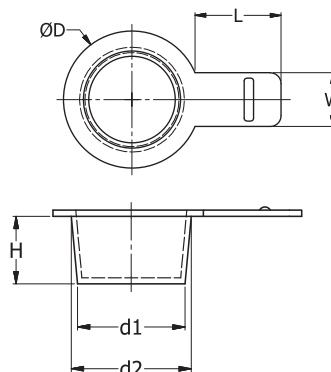
- Material: Low-Density Polyethylene
- Color: Blue

Features:

- The integral side pull tab feature is designed for easy removal in awkward locations
- The tapered design allows the part to plug multiple inner diameters

Item No.	A		B		C		D		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
P7A	0.365	9.27	0.300	7.62	0.531	13.49	0.375	9.53	5000
P8A	0.398	10.11	0.330	8.38	0.563	14.30	0.375	9.53	5000
P11A	0.485	12.32	0.420	10.67	0.594	15.08	0.375	9.53	5000
P13A	0.548	13.92	0.471	11.96	0.690	17.53	0.470	11.94	5000
P16A	0.623	15.82	0.531	13.49	0.750	19.05	0.500	12.70	7000
P17A	0.634	16.10	0.550	13.97	0.781	19.84	0.500	12.70	7000
P18A	0.668	16.97	0.580	14.73	0.810	20.57	0.530	13.46	5000
P20A	0.729	18.52	0.640	16.26	0.880	22.35	0.500	12.70	5000
P23A	0.785	19.94	0.690	17.53	0.937	23.81	0.625	15.88	3500
P24A	0.805	20.44	0.717	18.21	0.937	23.81	0.625	15.88	5000
P26A	0.912	23.16	0.802	20.37	1.060	26.92	0.650	16.51	5000
P27A	0.933	23.70	0.815	20.70	1.120	28.45	0.620	15.75	5000
P31A	0.975	24.77	0.870	22.10	1.125	28.58	0.625	15.88	2500
P33A	1.040	26.42	0.915	23.24	1.160	29.46	0.720	18.29	5000
P40A	1.090	27.69	0.964	24.49	1.250	31.75	0.780	19.81	3000
P41A	1.145	29.08	0.995	25.27	1.310	33.27	0.780	19.81	2500
P42A	1.230	31.24	1.110	28.19	1.516	38.50	0.750	19.05	2500
P44A	1.275	32.39	1.165	29.59	1.405	35.69	0.750	19.05	2500
P46A	1.360	34.54	1.233	31.32	1.500	38.10	0.840	21.34	2500
P53A	1.600	40.64	1.450	36.83	1.750	44.45	0.750	19.05	2000
P55A	1.682	42.74	1.560	39.62	1.875	47.63	0.750	19.05	1500
P57A	1.750	44.45	1.633	41.48	1.940	49.28	0.750	19.05	1000
P59A	1.825	46.36	1.800	45.72	2.031	51.59	0.500	12.70	2000
P61A	1.950	49.53	1.780	45.21	2.120	53.85	1.000	25.40	1000
P63A	2.000	50.80	1.844	46.84	2.120	53.85	1.000	25.40	1000
P65A	2.083	52.91	1.920	48.77	2.250	57.15	1.000	25.40	1000
P68A	2.261	57.43	2.231	56.67	2.500	63.50	0.500	12.70	1000

Tapered Plugs with Lateral Pull Tabs



Specifications:

- Material: Thermoplastic Rubber
- Color: White

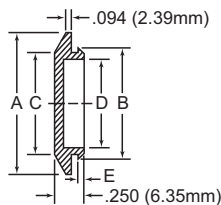
Features:

- The soft and flexible material provides a close fit
- The lateral pull tab makes for easy removal
- TPR is recommended wherever resistance to acid is required

Item No.	d1		d2		D		H		W		L		Bulk Pack Qty
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
494297	5.0	0.197	7.0	0.276	11.0	0.433	9.5	0.374	7.0	0.276	15.0	0.591	5000
494298	6.0	0.236	8.0	0.315	12.0	0.472	9.5	0.374	7.0	0.276	15.0	0.591	5000
494299	7.0	0.276	9.5	0.374	13.5	0.531	9.5	0.374	7.0	0.276	15.0	0.591	5000
494300	8.0	0.315	10.0	0.394	14.0	0.551	9.5	0.374	8.0	0.315	15.0	0.591	5000
494301	9.5	0.374	11.5	0.453	15.5	0.610	9.5	0.374	8.0	0.315	15.0	0.591	5000
494302	10.5	0.413	12.5	0.492	16.5	0.650	9.5	0.374	8.0	0.315	15.0	0.591	5000
494303	11.5	0.453	13.5	0.531	17.5	0.689	9.5	0.374	8.0	0.315	15.0	0.591	5000
494304	12.5	0.492	14.5	0.571	18.5	0.728	10.0	0.394	8.0	0.315	15.0	0.591	5000
494305	13.5	0.531	15.5	0.610	19.5	0.768	10.0	0.394	10.0	0.394	15.0	0.591	5000
494306	14.2	0.559	16.2	0.638	20.2	0.795	10.0	0.394	10.0	0.394	15.0	0.591	5000
494307	14.5	0.571	17.0	0.669	21.0	0.827	10.0	0.394	10.0	0.394	15.0	0.591	2000
494308	15.5	0.61	18.0	0.709	22.0	0.866	10.0	0.394	10.0	0.394	15.0	0.591	2000
494309	17.5	0.689	19.5	0.768	23.5	0.925	10.0	0.394	10.0	0.394	15.0	0.591	2000
494310	19.0	0.748	21.5	0.846	25.5	1.004	11.0	0.433	10.0	0.394	15.0	0.591	2000
494311	21.0	0.827	23.5	0.925	27.5	1.083	11.0	0.433	10.0	0.394	15.0	0.591	2000
494312	22.5	0.886	25.5	1.004	29.5	1.161	12.0	0.472	12.0	0.472	15.0	0.591	2000
494313	25.0	0.984	28.0	1.102	32.0	1.260	12.0	0.472	12.0	0.472	15.0	0.591	2000
494314	29.0	1.142	31.5	1.240	35.5	1.398	12.0	0.472	12.0	0.472	15.0	0.591	2000



S Series
Sheet Metal Plugs



Specifications:

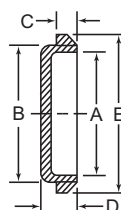
- Material: Low-Density Polyethylene
- Color: Black

Features:

- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

Item No.	Ø Hole		Max Panel Thickness		A		B		C		D		E		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
S1/4A	0.250	0.110	2.79	0.500	12.70	0.280	7.11	0.250	6.35	0.188	4.78	0.250	6.35	5000	
SM3/8A	0.375	0.065	1.65	0.740	18.80	0.400	10.16	0.370	9.40	0.240	6.10	0.250	6.35	5000	
S3/8A	0.375	0.110	2.79	0.730	18.54	0.412	10.46	0.370	9.40	0.270	6.86	0.110	2.79	5000	
S7/16A	0.438	0.110	2.79	0.688	17.48	0.471	11.96	0.438	11.13	0.375	9.53	0.250	6.35	6000	
S1/2A	0.500	0.075	1.91	0.875	22.23	0.570	14.48	0.510	12.95	0.375	9.53	0.115	2.92	6000	
S9/16A	0.563	0.110	2.79	0.813	20.64	0.600	15.24	0.563	14.3	0.500	12.70	0.250	6.35	6000	
S5/8A	0.625	0.075	1.91	0.813	20.65	0.670	17.02	0.620	15.75	0.540	13.72	0.100	2.54	6000	
S11/16A	0.688	0.110	2.79	1.000	25.40	0.720	18.29	0.688	17.48	0.925	23.50	0.250	6.35	5000	
SM3/4A	0.750	0.094	2.39	1.120	28.45	0.810	20.57	0.760	19.30	0.610	15.49	0.250	6.35	5000	
S3/4A	0.750	0.110	2.79	1.125	28.58	0.790	20.07	0.760	19.30	0.623	15.82	0.115	2.92	6500	
S13/16A	0.813	0.110	2.79	1.125	28.58	0.845	21.46	0.813	20.65	0.750	19.05	0.250	6.35	5000	
S7/8A	0.875	0.110	2.79	1.250	31.75	0.900	22.86	0.870	22.10	0.745	18.92	0.094	2.39	5000	
S15/16A	0.937	0.110	2.80	1.251	31.76	0.980	24.9	0.937	23.8	0.875	22.23	0.250	6.35	5000	
S1A	1.000	0.110	2.79	1.438	36.53	1.040	26.42	1.010	25.65	0.875	22.23	0.110	2.79	3500	
S1-3/32A	1.094	0.110	2.79	1.375	34.93	1.150	29.21	1.094	27.79	1.031	26.19	0.250	6.35	4000	
S1-1/8A	1.125	0.110	2.79	1.500	38.10	1.180	29.97	1.125	28.58	1.063	27.00	0.250	6.35	3000	
S1-5/16A	1.313	0.110	2.79	1.688	42.88	1.360	34.54	1.313	33.35	1.250	31.75	0.250	6.35	2500	
S1-1/2A	1.500	0.110	2.79	1.875	47.63	1.540	39.12	1.500	38.10	1.400	35.56	0.110	2.79	2000	
S1-3/4A	1.750	0.110	2.79	2.130	54.10	1.835	46.61	1.730	43.94	1.610	40.89	0.105	2.67	1500	
S2A	2.000	0.110	2.79	2.375	60.33	2.060	52.32	2.000	50.80	1.938	49.23	0.250	6.35	1000	
S2-1/8A	2.125	0.110	2.79	2.500	63.50	2.175	55.25	2.125	53.98	2.063	52.40	0.250	6.35	1000	
S2-1/2A	2.500	0.110	2.79	3.000	76.20	2.560	65.02	2.500	63.50	2.438	61.93	0.250	6.35	700	
S2-5/8A	2.625	0.110	2.79	3.125	79.38	2.685	68.20	2.625	66.68	2.563	65.10	0.250	6.35	1200	
S3A	3.000	0.110	2.79	3.375	85.73	3.060	77.72	3.000	76.20	2.938	74.63	0.250	6.35	1000	
S3-3/8A	3.375	0.110	2.79	3.750	95.25	3.435	87.25	3.375	85.73	3.313	84.15	0.250	6.35	500	
S3-1/2A	3.500	0.110	2.79	3.875	98.43	3.560	90.42	3.500	88.90	3.438	87.33	0.250	6.35	600	

SR Series
Recessed Sheet Metal Plugs



Specifications:

- Material: Low-Density Polyethylene
- Color: Black

Features:

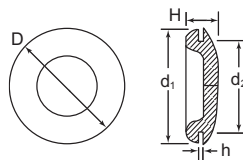
- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

Item No.	Ø Hole		Max Panel Thickness		A		B		C		D		E		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SR1/2A	0.500	0.110	2.79	0.510	12.95	0.550	13.97	0.090	2.29	0.290	7.37	0.850	21.59	3000	
SR3/4A	0.750	0.180	4.57	0.750	19.05	0.800	20.32	0.190	4.83	0.380	9.65	1.156	29.36	4000	
SR7/8A	0.875	0.180	4.57	0.875	22.23	0.920	23.37	0.190	4.83	0.380	9.65	1.250	31.75	3500	
SR1A	1.000	0.150	3.81	1.000	25.40	1.043	26.49	0.096	2.44	0.319	8.10	1.377	34.98	3500	
SR1-1/4A	1.250	0.120	3.04	1.280	32.51	1.330	33.78	0.120	3.05	0.350	8.89	1.615	41.02	2000	
SR1-3/8A	1.375	0.190	4.82	1.375	34.93	1.437	36.50	0.200	5.08	0.410	10.41	1.750	44.45	1800	
SR1-1/2A	1.500	0.125	3.17	1.515	38.48	1.555	39.50	0.120	3.05	0.350	8.89	1.875	47.63	1500	
SR1-5/8A	1.625	0.190	4.82	1.625	41.28	1.688	42.88	0.200	5.08	0.410	10.41	2.000	50.80	1000	
SR1-3/4A	1.750	0.190	4.82	1.750	44.45	1.812	46.02	0.200	5.08	0.410	10.41	2.125	53.98	1000	
SR1-7/8A	1.875	0.190	4.82	1.875	47.63	1.937	49.20	0.200	5.08	0.410	10.41	2.250	57.15	900	
SR2A	2.000	0.190	4.82	2.000	50.80	2.060	52.32	0.170	4.32	0.390	9.91	2.500	63.50	800	
SR3A	3.000	0.190	4.82	3.000	76.20	3.065	77.85	0.200	5.08	0.410	10.41	3.500	88.90	300	



SHEET METAL PLUGS

Blanking Plug Series PVC & TPE Hole Plugs



Specifications:

- Material: See Table
- Color: Black

Features:

- PVC Material: Non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities
- TPE Material: Very resistant to oils, acids and alkalies
- Resistant to temperatures up to 203°F (95°C)

Item No.		Ø Hole d2		Max Panel Thickness h		D= OD		Depth H		d1		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
10860B	15150B	0.187	4.70	0.063	1.60	0.366	9.30	0.181	4.60	0.366	9.30	10000
10825B	15151B	0.250	6.40	0.063	1.60	0.374	9.50	0.197	5.00	0.374	9.50	10000
10832B	—	0.313	8.00	0.031	0.80	0.571	14.50	0.157	4.00	0.417	10.60	10000
10233B	—	0.313	8.00	0.063	1.60	0.571	14.50	0.177	4.50	0.417	10.60	10000
10488B	—	0.354	9.00	0.063	1.60	0.591	15.00	0.260	6.60	0.488	12.40	10000
10912B	15155B	0.438	11.10	0.063	1.60	0.697	17.70	0.244	6.20	0.504	12.80	10000
10768B	—	0.453	11.50	0.063	1.60	0.669	17.00	0.276	7.00	0.610	15.50	5000
15511B	—	0.469	11.90	0.047	1.20	0.689	17.50	0.280	7.10	0.626	15.90	10000
10502B	15157B	0.500	12.70	0.063	1.60	0.736	18.70	0.220	5.60	0.610	15.50	5000
11321B	15158B	0.587	14.90	0.051	1.30	0.787	20.00	0.276	7.00	0.724	18.40	10000
10213B	15159B	0.610	15.50	0.063	1.60	0.866	22.00	0.295	7.50	0.748	19.00	5000
40043B	—	0.625	15.90	0.063	1.60	0.748	19.00	0.280	7.10	0.748	19.00	10000
12914B	—	0.642	16.30	0.051	1.30	0.787	20.00	0.276	7.00	0.728	18.50	5000
10678B	15160B	0.750	19.00	0.063	1.60	0.984	25.00	0.256	6.50	0.846	21.50	5000
10499A	15161B	0.781	20.00	0.063	1.60	0.984	25.00	0.256	6.50	0.846	21.50	5000
11152B	15162B	0.866	22.00	0.094	2.40	1.122	28.50	0.323	8.20	1.047	26.60	3000
10902B	—	0.875	22.50	0.063	1.60	1.122	28.50	0.295	7.50	1.063	27.00	3000
11027B	15164B	0.968	24.50	0.094	2.40	1.181	30.00	0.343	8.70	1.083	27.50	2000
11323B	—	0.984	25.00	0.031	0.80	1.516	38.50	0.181	4.60	1.122	28.50	3000
10705B	15166B	1.000	25.40	0.063	1.60	1.260	32.00	0.354	9.00	1.114	28.30	3000
11148B	15165B	1.000	25.40	0.094	2.40	1.260	32.00	0.354	9.00	1.114	28.30	3000
11239B	—	1.250	31.50	0.031	0.80	1.504	38.20	0.276	7.00	1.240	31.50	2000
11059B	15168B	1.250	31.50	0.063	1.60	1.504	38.20	0.295	7.50	1.394	35.40	2000
11281B	15170B	1.260	32.00	0.122	3.10	1.504	38.20	0.354	9.00	1.394	35.40	2000
10877B	15171B	1.500	38.20	0.063	1.60	1.720	43.70	0.323	8.20	1.693	43.00	1500
10320B	15172B	2.031	51.50	0.063	1.60	2.264	57.50	0.488	12.40	2.071	52.60	500

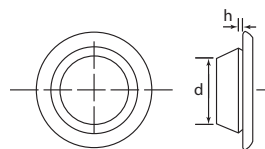
Body Series TPE Hole Plugs

Specifications:

- Material: TPE
- Color: Black

Features:

- Each size covers a range of panel thicknesses
- Designed to fit standard metric holes
- Very resistant to oils, acids and alkalies
- Resistant to temperatures up to 203°F (95°C)



Item No.	Ø Hole d		Max Panel Thickness h		Bulk Pack Qty
	in	mm	in	mm	
BP-16230	0.394	10.00	0.032 - 0.078	0.8 - 2.0	5000
BP-16231	0.472	12.00	0.031 - 0.078	0.8 - 2.0	5000
BP-16232	0.551	14.00	0.031 - 0.078	0.8 - 2.0	5000
BP-16233	0.630	16.00	0.031 - 0.078	0.8 - 2.0	5000
BP-16234	0.709	18.00	0.031 - 0.078	0.8 - 2.0	2500

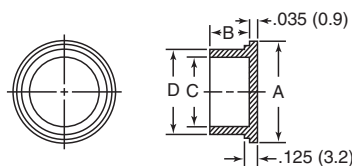
Item No.	Ø Hole d		Max Panel Thickness h		Bulk Pack Qty
	in	mm	in	mm	
16235B	0.787	20.00	0.031 - 0.078	0.8 - 2.0	2500
BP-16236	0.866	22.00	0.031 - 0.078	0.8 - 2.0	2500
16237B	0.984	25.00	0.031 - 0.078	0.8 - 2.0	3000
BP-16238	1.181	30.00	0.031 - 0.078	0.8 - 2.0	2000
10517B	1.772	45.00	0.031 - 0.078	0.8 - 2.0	1000

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FC PLUG Series
Circular Connector Plugs

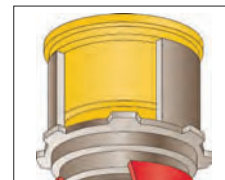


Specifications:

- Material: Low-Density Polyethylene
- Color: Yellow

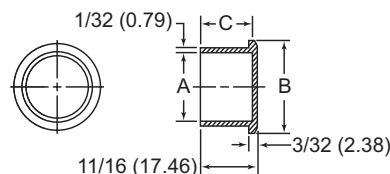
Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect electrical connectors per Mil Spec 90376
- See page 36 if cap is needed



Item No.	MS90376 Dash No	To Plug Connector	A		B		C		D		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
FC707A	MS90376-8Y	1/2 - 18	0.670	17.02	0.625	15.88	0.413	10.49	0.483	12.27	10000
FC709B	MS90376-10Y	5/8 - 24	0.750	19.05	0.625	15.88	0.530	13.46	0.595	15.11	8000
FC711B	MS90376-12Y	3/4 - 20	0.860	21.84	0.625	15.88	0.655	16.64	0.715	18.16	5500
FC713B	MS90376-14Y	7/8 - 20	1.031	26.19	0.625	15.88	0.785	19.94	0.845	21.46	4000
FC715B	MS90376-16Y	1 - 20	1.125	28.58	0.625	15.88	0.893	22.68	0.963	24.46	3000
FC717C	MS90376-18Y	1 - 1/8 - 18	1.250	31.75	0.625	15.88	1.028	26.11	1.088	27.64	3000
FC719A	MS90376-20Y	1 - 1/4 - 18	1.406	35.71	0.625	15.88	1.150	29.21	1.215	30.86	2000
FC721A	MS90376-22Y	1 - 3/8 - 18	1.500	38.10	0.625	15.88	1.270	32.26	1.340	34.04	1500
FC723A	MS90376-24Y	1 - 1/2 - 18	1.640	41.66	0.625	15.88	1.390	35.31	1.460	37.08	1400
FC725B	MS90376-25Y	1 - 5/8 - 18	1.810	45.97	0.625	15.88	1.540	39.12	1.580	40.13	1300
FC727C	MS90376-28Y	1 - 3/4 - 18	1.875	47.63	0.625	15.88	1.648	41.86	1.718	43.64	1200
FC731B	MS90376-32Y	2 - 18	2.125	53.98	0.625	15.88	1.890	48.01	1.970	50.04	900
FC735A	MS90376-36Y	2 - 1/4 - 16	2.340	59.44	0.625	15.88	2.140	54.36	2.210	56.13	800

H Series
Flanged Connector Plugs



Specifications:

- Material: Low-Density Polyethylene
- Color: Yellow

Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect connectors with standard threads



Item No.	To Plug Standard Thread	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
H1/2A	1/2" - 28	0.485	12.32	0.625	15.88	0.625	15.88	7000
H5/8A	5/8" - 24	0.601	15.27	0.750	19.05	0.625	15.88	5000
H3/4A	3/4" - 20	0.721	18.31	0.860	21.84	0.625	15.88	4000
H7/8A	7/8" - 20	0.850	21.59	1.000	25.40	0.625	15.88	2500
H1A	1" - 20	0.968	24.59	1.125	28.58	0.625	15.88	2000
H1-1/8A	1-1/8" - 18	1.097	27.86	1.250	31.75	0.625	15.88	1500
H1-1/4A	1-1/4" - 18	1.228	31.19	1.406	35.72	0.625	15.88	1500
H1-3/8A	1-3/8" - 18	1.345	34.16	1.500	38.10	0.625	15.88	2000
H1-1/2A	1-1/2" - 18	1.468	37.29	1.656	42.07	0.625	15.88	2000
H1-3/4A	1-3/4" - 18	1.732	43.99	1.906	48.42	0.625	15.88	1500

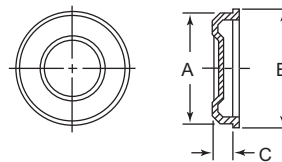
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PUSH-FIT PLUGS

TP/SP/FPL Series Packaging Tube Plugs



Specifications:

- Material: Low-Density Polyethylene
- Color: TP & SP: White, FPL: Black

Features:

- Designed for tube containers used in shipping, packaging and mail delivery
- Fits securely in the tube end
- SP Series has easy finger grip construction for convenient fast removal

Item No.	Tube ID in	A in	B in	C in	Bulk Pack Qty
TP1-1/2A	1.500	1.520	1.620	0.450	4000
SP1-1/2B	1.500	1.510	1.620	0.405	3500
TP2A	2.000	2.030	2.120	0.450	2300
SP2D	2.000	2.020	2.120	0.405	2100
TP2-1/8A	2.125	2.150	2.250	0.450	2000
TP2-1/4A	2.250	2.280	2.370	0.450	1800
TP2-1/2A	2.500	2.530	2.630	0.450	1400
SP2-1/2C	2.500	2.520	2.630	0.405	1500
TP2-3/4A	2.750	2.780	2.880	0.450	1250
TP3A	3.000	3.030	3.160	0.450	1000
SP3E	3.000	3.020	3.160	0.405	1000
TP3-1/4A	3.250	3.280	3.410	0.450	800
TP3-1/2A	3.500	3.530	3.660	0.450	700
SP3-1/2A	3.500	3.530	3.660	0.450	200
TP3-29/32A	3.900	3.940	4.060	0.450	600
TP4A	4.000	4.060	4.170	0.450	600
SP4A	4.000	4.030	4.160	0.450	500
TP4-3/4A	4.750	4.790	4.930	0.450	350
SP5A	5.000	5.040	5.170	0.450	300
SP6A	6.000	6.040	6.170	0.450	200
FPL6A	6.000	6.040	6.610	1.280	150
SP7A	7.000	7.040	7.170	0.450	200
FPL8A	8.000	8.025	8.610	1.290	100
FPL10A	10.000	10.150	10.730	1.350	50
FPL12A	12.000	12.140	12.700	1.350	30

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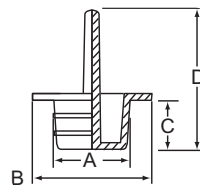


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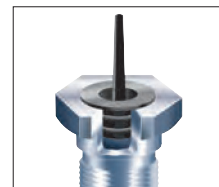




MPP Series Flexible Pull Plugs



Type 1 – Center Pull

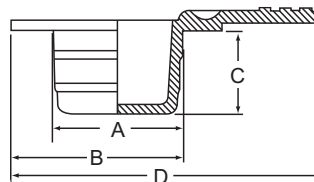


Specifications:

- Material: Thermoplastic Rubber
- Color: Black
- Temperature Range: -40°F to 275°F (-40°C to 135°C)

Features:

- The integral pull tab feature is designed for easy removal
- Protects threaded or non-threaded components
- Acid-resistant

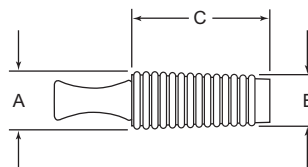


Type 2 – Side Pull



Item No.	To Fit		Type	A		B		C		D		Bulk Pack Qty
	Standard Thread	Metric Thread		in	mm	in	mm	in	mm	in	mm	
MPP3A	1/4"	M6	2	0.216	5.5	0.610	15.5	0.315	8.0	0.913	23.20	500
MPP4A	5/16"	M8	1	0.295	7.5	0.610	15.5	0.315	8.0	0.944	24.00	500
MPP5A	5/16"	M8	2	0.295	7.5	0.591	15.0	0.315	8.0	0.994	25.25	7000
MPP10A	3/8"	M10	1	0.374	9.5	0.689	17.5	0.315	8.0	1.181	30.00	8000
MPP15A	3/8"	M10	2	0.374	9.5	0.669	17.0	0.315	8.0	1.073	27.25	7000
MPP20A	1/2"	M12	1	0.453	11.5	0.768	19.5	0.394	10.0	1.181	30.00	7000
MPP25A	1/2"	M12	2	0.453	11.5	0.669	17.0	0.315	8.0	1.112	28.24	7000
MPP30A	9/16"	M14	1	0.501	12.8	0.846	21.5	0.394	10.0	1.181	30.00	6000
MPP35A	9/16"	M14	2	0.512	13.0	0.827	21.0	0.394	10.0	1.220	30.99	6000
MPP40A	5/8"	M16	1	0.598	15.2	0.925	23.5	0.394	10.0	1.260	32.00	4000
MPP45A	5/8"	M16	2	0.610	15.5	0.906	23.0	0.394	10.0	1.309	33.25	4000
MPP50A	11/16"	M18	2	0.669	17.0	1.024	26.0	0.394	10.0	1.398	35.51	4000
MPP55A	3/4"	M18	1	0.693	17.6	1.004	25.5	0.394	10.0	1.024	26.00	500
MPP60A	13/16"	M20	1	0.764	19.4	1.083	27.5	0.472	12.0	1.024	26.00	500
MPP65A	13/16"	M20	2	0.764	19.4	1.083	27.5	0.472	12.0	1.461	37.10	500
MPP70A	7/8"	M22	1	0.843	21.4	1.161	29.5	0.472	12.0	1.024	26.00	250
MPP75A	7/8"	M22	2	0.843	21.4	1.161	29.5	0.472	12.0	1.551	39.40	250
MPP80A	1"	M24	1	0.925	23.5	1.122	28.5	0.472	12.0	1.024	26.00	250
MPP85A	1"	M24	2	0.925	23.5	1.122	28.5	0.472	12.0	1.606	40.80	250

SFP Series Flangeless Tapered Plugs



Specifications:

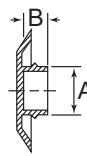
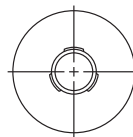
- Material: Thermoplastic Rubber
- Color: Black

Features:

- Protects threaded or unthreaded holes without masking the surrounding areas
- Ergonomically-friendly pull tab allows for easy installation and removal
- For high temperature version see page 76



Item No.	Plugs Threads		M	A		B		C		Bulk Pack Qty
	UN	M		in	mm	in	mm	in	mm	
10398B	#6 & #8	M3	0.196	5.0	0.118	3.0	0.59	15.0	10000	
18409B	#10 & #12	M4	0.236	6.0	0.157	4.0	1.00	25.4	6000	
18410B	1/4 & 5/16	M6	0.315	8.0	0.236	6.0	1.00	25.4	6000	
18411B	3/8	M8	0.394	10.0	0.315	8.0	1.00	25.4	4000	
18412B	7/16	M10	0.472	12.0	0.394	10.0	1.00	25.4	4000	
18414B	5/8	M14	0.630	16.0	0.551	14.0	1.00	25.4	4000	
18415B	11/16	M16	0.709	18.0	0.630	16.0	1.00	25.4	2000	

**PUSH-FIT PLUGS FOR THREADS****I Series****Push In Plugs for SAE/NPT Threads****Specifications:**

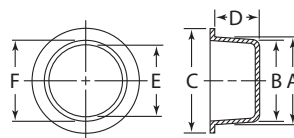
- Material: Low-Density Polyethylene
- Color: Yellow

Features:

- Provides all the advantages of a threaded plug with the ease of a push in style
- Snaps into place providing an attractive finish while keeping contaminants away from the fittings

Item No.	To Fit		A		B		Bulk Pack Qty
	SAE Thread	NPT Thread	in	mm	in	mm	
I1/4A	1/4	—	0.206	5.23	0.220	5.59	5000
I5/16A	5/16	—	0.262	6.65	0.235	5.97	5000
I3/8A	3/8	1/8	0.324	8.23	0.235	5.97	3000
PP3/8A	3/8	1/8	0.310	7.87	0.340	8.64	5000
I7/16A	7/16	—	0.380	9.65	0.270	6.86	3000
I1/2A	1/2	1/4	0.437	11.10	0.270	6.86	5000
I9/16A	9/16	—	0.495	12.57	0.290	7.37	5000
PP9/16A	9/16	—	0.480	12.19	0.360	9.14	5000
I5/8A	5/8	3/8	0.558	14.17	0.290	7.37	7500
I11/16A	11/16	—	0.610	15.49	0.290	7.37	7000
I3/4A	3/4	—	0.676	17.17	0.290	7.37	6000
I13/16A	13/16	1/2	0.732	18.59	0.290	7.37	5000

Item No.	To Fit		A		B		Bulk Pack Qty
	SAE Thread	NPT Thread	in	mm	in	mm	
I7/8A	7/8	—	0.798	20.27	0.295	7.49	4500
I1A	1	3/4	0.922	23.42	0.290	7.37	3500
I1-1/16A	1 - 1/16	—	0.972	24.69	0.290	7.37	3000
I1-3/16A	1 - 3/16	—	1.090	27.69	0.340	8.64	2000
I1-1/4A	1 - 1/4	—	1.160	29.46	0.340	8.64	2000
I1-5/16A	1 - 5/16	1	1.215	30.86	0.340	8.64	2000
I1-7/16A	1 - 7/16	—	1.360	34.54	0.460	11.68	1200
I1-1/2A	1 - 1/2	—	1.405	35.69	0.460	11.68	1100
I1-5/8A	1 - 5/8	—	1.525	38.74	0.460	11.68	1000
I1-3/4A	1 - 3/4	—	1.650	41.91	0.460	11.68	800
I1-7/8A	1 - 7/8	—	1.775	45.09	0.460	11.68	800

NPT Series**Plugs for NPT Threads****Specifications:**

- Material: Low-Density Polyethylene
- Colors: See Table

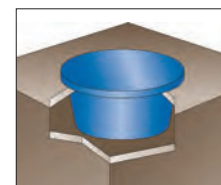
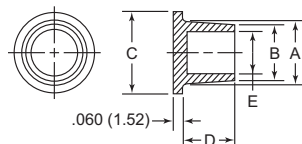
Features:

- 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.	Color	A		B		C		D		E		F		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
NPT3/8A	Yellow	0.615	15.62	0.570	14.48	0.750	19.05	0.285	7.24	0.497	12.62	0.535	13.59	5000
NPT3/4A	Red	0.955	24.26	0.922	23.42	1.125	28.58	0.363	9.22	0.849	21.56	0.872	22.15	5500
NPT1-1/4A	Red	1.560	39.62	1.510	38.35	1.750	44.45	0.435	11.05	1.401	35.59	1.481	37.62	2000
NPT2A	Blue	2.275	57.79	2.225	56.52	2.437	61.90	0.495	12.57	2.092	53.14	2.194	55.73	2500
NPT2-1/2A	Black	2.725	69.22	2.680	68.07	2.875	73.03	0.480	12.19	2.512	63.80	2.628	66.75	600
NPT3A	Blue	3.325	84.46	3.285	83.44	3.500	88.90	0.470	11.94	3.154	80.11	3.220	81.79	400
NPT3-1/2A	Black	3.785	96.14	3.775	95.89	4.062	103.17	0.750	19.05	3.665	93.09	3.675	93.35	550
NPT4A	Blue	4.315	109.61	4.295	109.09	4.687	119.05	0.790	20.07	4.077	103.56	4.115	104.52	500
NPT5A	Blue	5.360	136.14	5.350	135.89	5.750	146.05	0.850	21.59	5.205	132.21	5.215	132.46	275
NPT6A	Blue	6.425	163.20	6.390	162.31	6.750	171.45	0.895	22.73	6.252	158.80	6.272	159.31	180

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:

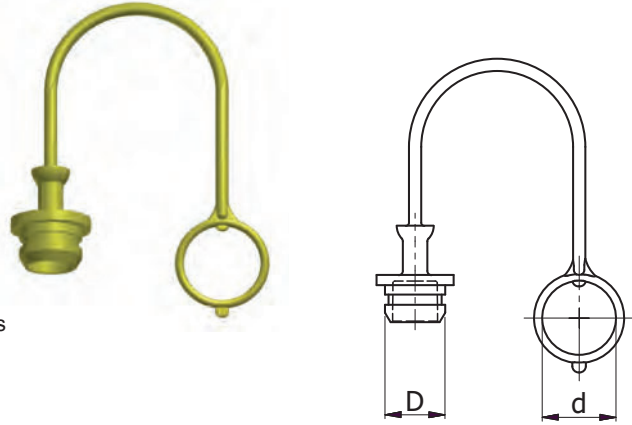
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.	NPT Size I.D.	A		B		C		D		E		Bulk Pack Qty
		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	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	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	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	2500
EN1A	1	1.200	30.48	1.090	27.69	1.344	34.13	0.656	16.67	1.301	26.19	1500

PUSH-FIT PLUGS FOR THREADS



Hydraulic Quick Release Dust Plugs



Specifications:

- Material: Thermoplastic Elastomer
- Color: See Table

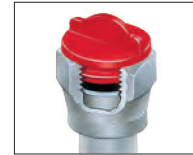
Features:

- Suitable to plug ISO 7241-1 Series A and B Quick Couplings
- Designed to remain attached to the hose
- Excellent protection from dirt, moisture and corrosion
- Temperature Range: -40°F - 275°F (-40°C - 135°C)
- For cap version see page 38

Item No.				Size	Series	D		d		Bulk Pack Qty
Red	Yellow	Green	Blue			mm	in	mm	in	
499766	499776	499786	499796	1/4"	ISO A	12.7	0.500	19.6	0.772	150
499767	499777	499787	499797	3/8"	ISO A	18.3	0.720	25.0	0.984	150
499768	499778	499788	499798	1/2"	ISO A	23.6	0.929	31.0	1.220	150
499769	499779	499789	499799	3/4"	ISO A	29.2	1.150	36.0	1.417	150
499770	499780	499790	499800	1"	ISO A	36.5	1.437	48.0	1.890	150
499771	499781	499791	499801	1/4"	ISO B	15.5	0.610	22.2	0.874	150
499772	499782	499792	499802	3/8"	ISO B	20.0	0.787	28.0	1.102	150
499773	499783	499793	499803	1/2"	ISO B	25.7	1.012	35.0	1.378	150
499774	499784	499794	499804	3/4"	ISO B	32.7	1.287	42.0	1.654	150
499775	499785	499795	499805	1"	ISO B	40.5	1.594	51.0	2.008	150

SF Series

Snap Fit Plugs for Standard/JIC/Metric/BSP Threads

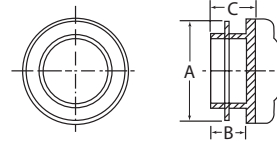


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

- Once pushed into position, a single turn gives a tight fit
- Each plug covers a range of different thread sizes and styles
- The 12598A* has pull tab, not as illustrated



Item No.	To Fit Thread Sizes			A		B		C		Bulk Pack Qty
	Standard/JIC	Metric	BSP	in	mm	in	mm	in	mm	
10530A	7/16"	M10	1/8"	0.386	9.80	0.157	4.00	0.236	6.00	12000
12363A	1/2"	M12, M13, M14	1/4"	0.516	13.10	0.197	5.00	0.276	7.00	10000
12364A	5/8"	M16	3/8"	0.650	16.50	0.197	5.00	0.276	7.00	10000
10314B	3/4"	M18	1/2"	0.720	18.30	0.276	7.00	0.354	9.00	7000
12365A	—	M20	1/2"	0.839	21.30	0.276	7.00	0.354	9.00	5000
12366A	7/8"	M22	5/8"	0.882	22.40	0.276	7.00	0.354	9.00	5000
12621A	—	M24	—	0.925	23.50	0.276	7.00	0.354	9.00	3000
12367A	1 1/16"	M25, M26	3/4"	1.004	25.50	0.276	7.00	0.354	9.00	2000
12368A	1 - 1/8"	M28	7/8"	1.098	27.90	0.276	7.00	0.354	9.00	3000
12369A	1 - 5/16"	M32	1"	1.260	32.00	0.276	7.00	0.354	9.00	2500
12622A	1 - 1/2", 1 - 3/8"	M36	1-1/8"	1.406	35.70	0.276	7.00	0.354	9.00	2000
12598A*	1 - 5/8"	M40, M42	1-1/4"	1.634	41.50	0.276	7.00	0.354	9.00	2000



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PUSH-FIT PLUGS FOR THREADS

EZP Series

Quick Fit Easy Pull Plugs for Unified Standard/Metric Threads

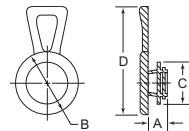


Specifications:

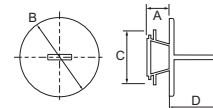
- Material: Low-Density Polyethylene
- Color: Red

Features:

- Patented Quick Fit design easily locks the plug into place with a simple push
- Strong and flexible pull-tab for quick removal
- Seven sizes in two styles protect more than 25 popular threaded sizes



Type 1 - Lateral Pull



Type 2 - Central Pull

Item No.	To Fit		Type	A		B		C		D		Bulk Pack Qty
	Standard Thread	Metric Thread		in	mm	in	mm	in	mm	in	mm	
EZP1010A	5/16", 3/8"	M8	1	0.300	7.62	0.515	13.08	0.375	9.53	1.195	30.35	10000
EZP1020C	7/16"	M10, M12	1	0.300	7.62	0.748	19.05	0.520	13.20	1.340	34.04	5000
EZP2020A	7/16"	M10, M12	2	0.354	9.00	0.748	19.00	0.519	13.20	0.834	21.20	500
EZP1030A	1/2", 5/8", 9/16"	M14, M16	1	0.275	7.00	0.893	22.70	0.649	16.50	1.574	40.00	5000
EZP2030A	1/2", 5/8", 9/16"	M14, M16	2	0.275	7.00	0.893	22.70	0.649	16.50	0.834	21.20	500
EZP1040A	3/4"	M18, M20	1	0.314	8.00	1.181	30.00	0.767	19.50	1.850	47.00	4000
EZP2040A	3/4"	M18, M20	2	0.314	8.00	1.181	30.00	0.767	19.50	0.842	21.40	250
EZP1050A	7/8"	M22, M24	1	0.374	9.50	1.350	34.30	0.937	23.80	2.023	51.40	3000
EZP2050A	7/8"	M22, M24	2	0.374	9.50	1.350	34.30	0.937	23.80	0.842	21.40	250
EZP1060A	1 - 1/16", 1 - 1/8"	M26, M28	1	0.374	9.50	1.574	40.00	1.086	27.60	2.244	57.00	2000
EZP2060A	1 - 1/16", 1 - 1/8"	M26, M28	2	0.374	9.50	1.574	40.00	1.086	27.60	0.846	21.50	100
EZP1070A	1 - 1/4", 1 - 3/8"	M30, M36	1	0.393	10.00	1.771	45.00	1.358	34.50	2.440	62.00	1500

QFP Series

Quick Fit Plugs for UNF/JIC/Metric Threads

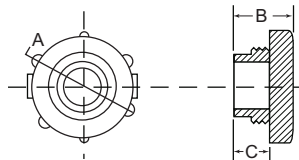


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

- Fewer thread forms allow for quick application



UNF/JIC

Item No.	To Fit UNF/JIC Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
QFP005A	7/16" x 20	0.728	18.50	0.354	9.00	0.232	5.90	5000
QFP010A	1/2" x 20	0.811	20.60	0.358	9.10	0.232	5.90	5000
QFP015A	9/16" x 18	0.843	21.40	0.354	9.00	0.232	5.90	5000
QFP020A	3/4" x 16	1.051	26.70	0.366	9.30	0.232	5.90	3000
QFP025A	7/8" x 14	1.173	29.80	0.362	9.20	0.244	6.20	2500
QFP030A	1 - 1/16" x 12	1.335	33.90	0.354	9.00	0.232	5.90	2000
QFP035A	1 - 5/16" x 12	1.587	40.30	0.37	9.40	0.236	6.00	1500

Metric

Item No.	To Fit Metric Thread Size	A		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	
QFP105A	M14 x 1.5	0.846	21.50	0.492	12.50	0.315	8.00	5000
QFP110A	M16 x 1.5	0.929	23.60	0.492	12.50	0.315	8.00	3000
QFP115A	M20 x 1.5	1.157	29.38	0.512	13.00	0.315	8.00	3000
QFP120A	M30 x 2.0	1.556	34.52	0.575	14.60	0.386	9.80	1500
QFP125A	M36 x 2.0	1.795	45.60	0.649	16.48	0.413	10.50	1000
QFP130A	M42 x 2.0	2.133	54.17	0.854	21.69	0.61	15.50	700
QFP135A	M45 x 2.0	2.232	56.69	0.728	18.50	0.500	12.70	700
QFP140A	M52 x 2.0	2.594	65.90	0.839	21.30	0.606	15.40	500

UN Series

Quick Fit Plugs for Standard/JIC/Metric/BSP Threads

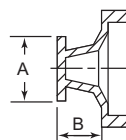


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

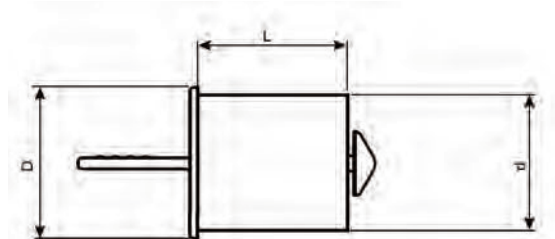
- This uniquely-designed range of plugs have sets of blades which will lock tight when pushed into a threaded hole and twisted
- Each plug covers a range of different thread sizes and styles
- Easily removes by simply unscrewing the plug from the thread



Item No.	To Fit Thread Sizes				A		B		Bulk Pack Qty
	NPT	Standard/JIC	Metric	BSP	in	mm	in	mm	
UN9995A	—	—	—	—	0.420	10.66	0.233	5.91	10000
UN9996A	1/8"	7/16"	M10	1/8"	0.438	11.12	0.240	6.09	10000
UN9997A	1/4"	9/16"	M14	—	0.575	14.60	0.285	7.23	10000
UN9998A	—	1/2"	M12	1/4"	0.485	12.31	0.325	8.25	10000
UN9763A	—	3/4"	M16 - 20	3/8"	0.780	19.81	0.375	9.52	5000
UN9764A	—	1"	M20 - 24	1/2" - 5/8"	0.990	25.14	0.445	11.30	2500
UN9774A	3/4"	1 - 3/16"	M30	3/4" - 7/8"	1.240	31.49	0.435	11.04	2000
UN9765A	—	1-7/16"	M33 - 36	1"	1.475	37.46	0.445	11.30	1000



Fluid Absorption Plugs



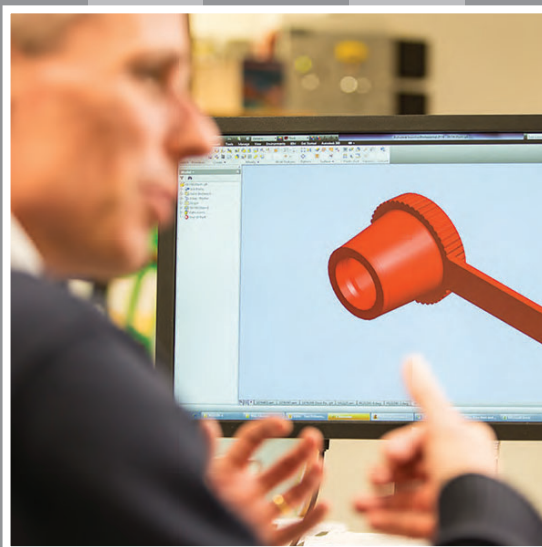
Specifications:

- Material: Polypropylene, Bi-Component Fiber
- Color: Yellow

Features:

- Control excess fluid residue from leaking
- Unique design allows quick, easy installation and removal to save time and cost
- Safer, easier and cleaner than a conventional plug; eliminates residue in the thread/hole

Item No.	To Fit Thread Sizes			D mm	d mm	l mm	Absorption** ml	Bulk Pack Qty
	Metric	BSP	UNF					
1342611	M10 x 1.5	1/8" x 28	3/8" x 24	10.7	8.5	15	0.54	1000
1342613	M12 x 1.5	—	—	12.5	10.5	15	0.86	1000
1342615	—	1/4" x 19	—	13.6	11.5	15	1.05	1000
1349120	M14 x 1.5	—	9/16" x 18	14.5	12.5	20	1.36	1000
1342618	M14 x 1.5	—	9/16" x 18	14.5	12.5	25	1.70	1000
1342619	M16 x 1.5	—	5/8" x 18	16.5	14.5	15	1.48	1000
1342622	M18 x 1.5	—	—	19.0	17.0	25	3.57	1000
1342624	—	3/8" x 19	—	17.2	15.0	25	2.75	1000
1349119	—	-	—	20.0	18.0	20	3.25	1000
1342625	M20 x 1.5	1/2" x 14	—	20.8	18.5	25	4.32	1000
1342626	M22 x 1.5	5/8" x 14	—	22.8	21.0	25	5.60	1000
1342627	—	3/4" x 14	1-1/16" x 12	26.5	24.6	25	8.04	1000
1342628	—	1" x 11	—	32.5	30.5	35	17.68	1000



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THREADED PLUGS

BL Series
UNF Standard Threaded Plugs (O-Ring optional)

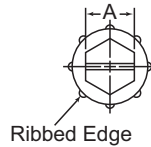


Specifications:

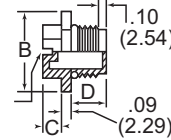
- Material: Polypropylene
- Color: Yellow

Features:

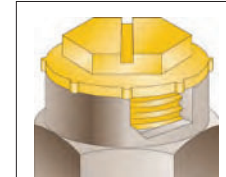
- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-Ring gives this part a water tight seal for superior leakage protection



Ribbed Edge



Screwdriver Slot
.06 x .09 (1.52 x 2.29)



See pages 64 and 65 for Application Wizards

Item No.	Item No. w/ O-Ring	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
BL3A	BL3L	7/16" - 20	0.430	10.92	0.620	15.75	0.180	4.57	0.390	9.91	5000
*BL4A	*BL4B	1/2" - 13	0.500	12.70	0.687	17.46	0.281	7.14	0.410	10.41	3000
BL5A	BL5K	9/16" - 18	0.500	12.70	0.750	19.05	0.180	4.57	0.420	10.67	3000
BL7A	BL7J	3/4" - 16	0.680	17.27	0.940	23.88	0.190	4.83	0.520	13.21	1500
BL8A	BL8H	7/8" - 14	0.750	19.05	1.060	26.92	0.240	6.10	0.560	14.22	2100
BL10A	BL10I	1-1/16" - 12	0.870	22.10	1.310	33.27	0.250	6.35	0.660	16.76	600
BL11A	BL11D	1-3/16" - 12	1.000	25.40	1.500	38.10	0.300	7.62	0.700	17.78	425
BL12A	BL12H	1-5/16" - 12	1.070	27.18	1.610	40.89	0.290	7.37	0.700	17.78	700
BL13A	BL13D	1-5/8" - 12	1.125	28.58	1.880	42.75	0.300	7.62	0.770	19.56	500
BL14A	BL14C	1-7/8" - 12	1.500	38.10	2.125	53.98	0.300	7.62	0.750	19.05	700

*BL4A and BL4B are black and UNC Threaded

BL Nylon Series
UNF Standard Threaded Nylon Plugs (O-Ring optional)

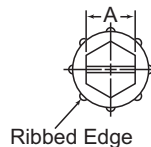


Specifications:

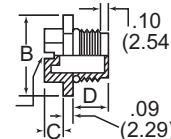
- Material: Nylon
- Color: Natural

Features:

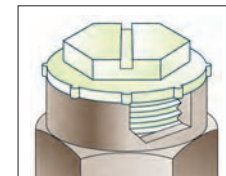
- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-Ring gives this part a water tight seal for superior leakage protection
- Recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than Polypropylene
- Temperature Range: -40°F - 230°F (-40°C - 110°C)



Ribbed Edge



Screwdriver Slot
.06 x .09 (1.52 x 2.29)



Item No.	Item No. w/ O-Ring	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
BL3D	BL3I	7/16" - 20	0.430	10.92	0.620	15.75	0.180	4.57	0.390	9.91	10000
BL5C	BL5N	9/16" - 18	0.500	12.70	0.750	19.05	0.180	4.57	0.420	10.67	6000
BL7C	BL7G	3/4" - 16	0.680	17.27	0.940	23.88	0.190	4.83	0.520	13.21	3000
BL8B	BL8P	7/8" - 14	0.750	19.05	1.060	26.92	0.240	6.10	0.560	14.22	2100
BL10C	BL10M	1-1/16" - 12	0.870	22.10	1.310	33.27	0.250	6.35	0.660	16.76	1200
BL11E	BL11C	1-3/16" - 12	1.000	25.40	1.500	38.10	0.300	7.62	0.700	17.78	425
BL12B	BL12M	1-5/16" - 12	1.070	27.18	1.610	40.89	0.290	7.37	0.700	17.78	700
BL13G	BL13C	1-5/8" - 12	1.125	28.58	1.880	42.75	0.300	7.62	0.770	19.56	1000



HOSE PROTECTION

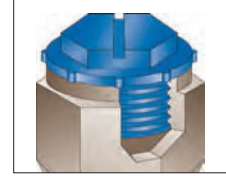
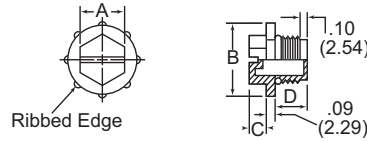
Wrap it. Cover it. Shield it. Secure it.

SPIRALGUARD
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**B Series**  
**UNF Standard Threaded Plugs**



**Specifications:**

- Material: High-Density Polyethylene
- Color: Blue

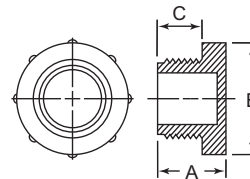
**Features:**

- Threaded plug with a serrated grip (used for a variety of applications)
- Can be applied or removed by hand, hex wrench or screwdriver

| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------|
|          |                              | in    | mm    | in    | mm    | in    | mm   | in    | mm    |               |
| B3A      | 7/16" - 20                   | 0.430 | 10.92 | 0.620 | 15.75 | 0.180 | 4.57 | 0.300 | 7.62  | 11000         |
| B4A      | 1/2" - 20                    | 0.500 | 12.70 | 0.680 | 12.27 | 0.180 | 4.57 | 0.360 | 9.14  | 7500          |
| B5A      | 9/16" - 18                   | 0.500 | 12.70 | 0.750 | 19.05 | 0.180 | 4.57 | 0.382 | 9.70  | 6000          |
| B6A      | 5/8" - 18                    | 0.560 | 14.22 | 0.810 | 20.57 | 0.180 | 4.57 | 0.350 | 8.89  | 5000          |
| B7A      | 3/4" - 16                    | 0.680 | 17.27 | 0.940 | 23.88 | 0.190 | 4.83 | 0.440 | 11.18 | 3500          |

| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------|
|          |                              | in    | mm    | in    | mm    | in    | mm   | in    | mm    |               |
| B8A      | 7/8" - 14                    | 0.750 | 19.05 | 1.060 | 26.92 | 0.240 | 6.10 | 0.500 | 12.70 | 2100          |
| B9A      | 1" - 14                      | 0.750 | 19.05 | 1.180 | 29.97 | 0.250 | 6.35 | 0.430 | 10.92 | 2000          |
| B10A     | 1-1/8" - 14                  | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.645 | 16.38 | 1200          |
| B11A     | 1-1/16" - 12                 | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.620 | 15.75 | 1300          |

**TPUNF Series**  
**UNF/JIC Knurled Head Threaded Plugs**



**Specifications:**

- Material: Low-Density Polyethylene
- Color: Red

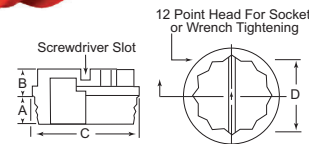
**Features:**

- Knurled head for easy hand installation or removal
- Secure fit for excellent protection against dirt, moisture and corrosion

| Item No. | To Plug UNF/JIC Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty |
|----------|-----------------------------|-------|-------|-------|-------|-------|-------|---------------|
|          |                             | in    | mm    | in    | mm    | in    | mm    |               |
| 10498A   | 5/16" - 18                  | 0.472 | 12.00 | 0.571 | 14.50 | 0.291 | 7.40  | 5000          |
| 10709A   | 5/16" - 24                  | 0.484 | 12.30 | 0.583 | 14.80 | 0.291 | 7.40  | 5000          |
| 10692A   | 3/8 - 24                    | 0.551 | 14.00 | 0.539 | 13.70 | 0.374 | 9.50  | 5000          |
| 10763A   | 7/16" - 20                  | 0.634 | 16.10 | 0.685 | 17.40 | 0.433 | 11.00 | 5000          |
| 12031A   | 7/16" - 24                  | 0.476 | 12.10 | 0.701 | 17.80 | 0.28  | 7.10  | 5000          |
| 10696A   | 1/2" - 20                   | 0.602 | 15.30 | 0.728 | 18.50 | 0.413 | 10.50 | 5000          |
| 10668A   | 9/16" - 18                  | 0.606 | 15.40 | 0.890 | 22.60 | 0.421 | 10.70 | 5000          |
| 12033A   | 9/16" - 24                  | 0.535 | 13.60 | 0.744 | 18.90 | 0.354 | 9.00  | 5000          |
| 10940A   | 5/8" - 18                   | 0.583 | 14.80 | 0.827 | 21.00 | 0.394 | 10.00 | 5000          |
| 12965A   | 5/8" - 24                   | 0.583 | 14.80 | 0.815 | 20.70 | 0.394 | 10.00 | 5000          |
| 12786A   | 11/16" - 16                 | 0.713 | 18.10 | 1.008 | 25.60 | 0.531 | 13.50 | 3000          |

| Item No. | To Plug UNF/JIC Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty |
|----------|-----------------------------|-------|-------|-------|-------|-------|-------|---------------|
|          |                             | in    | mm    | in    | mm    | in    | mm    |               |
| 10575A   | 3/4" - 16                   | 0.736 | 18.70 | 1.063 | 27.00 | 0.543 | 13.80 | 3000          |
| 12827A   | 13/16" - 16                 | 0.713 | 18.10 | 1.051 | 26.70 | 0.531 | 13.50 | 2500          |
| 10326A   | 7/8" - 14                   | 0.728 | 18.50 | 1.134 | 28.80 | 0.535 | 13.60 | 2500          |
| 12785A   | 1" - 14                     | 0.701 | 17.80 | 1.26  | 32.00 | 0.52  | 13.20 | 2000          |
| 10460A   | 1-1/16" - 12                | 0.724 | 18.40 | 1.315 | 33.40 | 0.543 | 13.80 | 2000          |
| 12359A   | 1-1/16" - 14                | 0.720 | 18.30 | 1.311 | 33.30 | 0.539 | 13.70 | 2000          |
| 11506A   | 1-3/16" - 12                | 0.72  | 18.30 | 1.449 | 36.80 | 0.531 | 13.50 | 1500          |
| 10671A   | 1-5/16" - 12                | 0.642 | 16.30 | 1.547 | 39.30 | 0.433 | 11.00 | 1500          |
| 11752A   | 1-5/8" - 12                 | 0.681 | 17.30 | 1.992 | 50.60 | 0.508 | 12.90 | 800           |
| 11755A   | 1-7/8" - 12                 | 0.886 | 22.50 | 2.299 | 58.40 | 0.657 | 16.70 | 400           |
| 12040A   | 2-1/2" - 12                 | 0.811 | 20.60 | 2.898 | 73.60 | 0.591 | 15.00 | 300           |

**BLM Series**  
**UNF Standard Threaded Molded O-Ring Plugs**



**Specifications:**

- Material: High-Density Polyethylene
- Color: Red

**Features:**

- Often used on flat-faced hydraulic fittings
- Integral O-Ring type bead prevents oil leakage or entrance of contaminants
- The flange lip compresses against the surface to keep contaminants out
- Can be applied or removed by hand, wrench, socket or screwdriver

| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |       | D     |      | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|------|---------------|
|          |                              | in    | mm    | in    | mm    | in    | mm    | in    | mm   |               |
| BLM3B    | 7/16" - 20                   | 0.344 | 8.74  | 0.281 | 7.14  | 0.660 | 16.76 | 3/8   | 8000 |               |
| BLM3-24B | 7/16" - 24                   | 0.344 | 8.74  | 0.281 | 7.14  | 0.660 | 16.76 | 3/8   | 8000 |               |
| BLM4B    | 1/2" - 20                    | 0.344 | 8.74  | 0.313 | 7.95  | 0.730 | 18.54 | 7/16  | 6000 |               |
| BLM5B    | 9/16" - 18                   | 0.350 | 8.89  | 0.323 | 8.20  | 0.800 | 20.32 | 1/2   | 6000 |               |
| BLM6B    | 5/8" - 18                    | 0.375 | 9.53  | 0.313 | 7.95  | 0.820 | 20.83 | 9/16  | 5000 |               |
| BLM7B    | 3/4" - 16                    | 0.406 | 10.31 | 0.406 | 10.31 | 1.020 | 25.91 | 11/16 | 3000 |               |
| BLM8B    | 7/8" - 14                    | 0.469 | 11.91 | 0.313 | 7.95  | 1.160 | 29.46 | 13/16 | 2000 |               |

| Item No. | To Plug Standard Thread Size | A     |       | B     |      | C     |       | D     |      | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|------|-------|-------|-------|------|---------------|
|          |                              | in    | mm    | in    | mm   | in    | mm    | in    | mm   |               |
| BLM9B    | 1" - 14                      | 0.500 | 12.70 | 0.313 | 7.95 | 1.250 | 31.75 | 7/8   | 1500 |               |
| BLM10B   | 1-1/16"-12                   | 0.594 | 15.09 | 0.313 | 7.95 | 1.450 | 36.83 | 1     | 1000 |               |
| BLM11B   | 1-3/16"-12                   | 0.594 | 15.09 | 0.344 | 8.74 | 1.500 | 38.10 | 1-1/8 | 1000 |               |
| BLM12B   | 1-5/16"-12                   | 0.594 | 15.09 | 0.344 | 8.74 | 1.740 | 44.20 | 1-1/4 | 1000 |               |
| BLM13B   | 1-5/8"-12                    | 0.594 | 15.09 | 0.344 | 8.74 | 2.156 | 54.76 | 1-1/2 | 700  |               |
| BLM14B   | 1-7/8"-12                    | 0.594 | 15.09 | 0.344 | 8.74 | 2.188 | 55.58 | 1-5/8 | 700  |               |



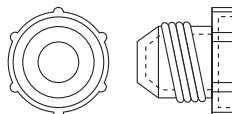
CAPS, PLUGS & NETTING  
**THREADED PLUGS**

**TE Series**  
Threaded Plugs for 37° JIC Flared Fittings



Specifications:

- Material: Low-Density Polyethylene
- Color: Red



Features:

- Designed with a knurled head for easy finger installation
- Used to seal light pressure requirements on 37° JIC flared fittings
- Functionally Equivalent to Spec: NAS-833, NAS-815 (MIL-C5501/1, MIL-C52078)

| Item No. | Tubing Size<br>in | To Plug JIC<br>Thread Size | JIC<br>Fitting<br>Size | Bulk<br>Pack<br>Qty |
|----------|-------------------|----------------------------|------------------------|---------------------|
| TE1000A  | 1/8               | 5/16" - 24                 | 2                      | 5000                |
| TE1005A  | 3/16              | 3/8" - 24                  | 3                      | 5000                |
| TE1010A  | 1/4               | 7/16" - 20                 | 4                      | 5000                |
| TE1015A  | 5/16              | 1/2" - 20                  | 5                      | 5000                |
| TE1020A  | 3/8               | 9/16" - 18                 | 6                      | 5000                |
| TE1025A  | 3/8               | 5/8" - 18                  | —                      | 5000                |
| TE1030A  | 1/2               | 3/4" - 16                  | 8                      | 2500                |
| TE1035A  | 5/8               | 7/8" - 14                  | 10                     | 2500                |
| TE1040A  | 3/4               | 1 - 1/16" - 12             | 12                     | 2500                |

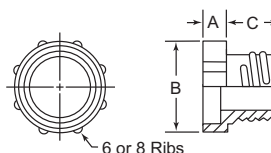
| Item No. | Tubing Size<br>in | To Plug JIC<br>Thread Size | JIC<br>Fitting<br>Size | Bulk<br>Pack<br>Qty |
|----------|-------------------|----------------------------|------------------------|---------------------|
| TE1045A  | 3/4               | 1 - 1/16" - 14             | —                      | 1000                |
| TE1050A  | 7/8               | 1 - 3/16" - 12             | 14                     | 2500                |
| TE1055A  | 1                 | 1 - 5/16" - 12             | 16                     | 1000                |
| TE1060A  | —                 | 1 - 1/2 - 12               | —                      | 1000                |
| TE1065A  | 1 - 1/4           | 1 - 5/8 - 12               | 20                     | 1000                |
| TE1070A  | —                 | 1 - 3/4 - 12               | —                      | 1000                |
| TE1075A  | 1 - 1/2           | 1 - 7/8 - 12               | 24                     | 500                 |
| TE1080A  | 1 - 3/4           | 2 - 1/4 - 12               | 28                     | 500                 |
| TE1085A  | 2                 | 2 - 1/2 - 12               | 32                     | 500                 |

**TF Series**  
Threaded Plugs for Flat Faced O-Ring Hydraulic Fittings



Specifications:

- Material: Polyethylene
- Color: Red



Features:

- Head designed with six or eight ribs for simple hand or mechanical installation
- Used to protect flat-faced O-Ring hydraulic fittings

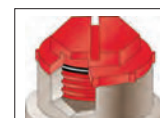
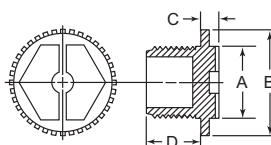
| Item No. | Tubing Size<br>in | To Plug<br>Thread Size | A     |      | B     |       | C     |      | Bulk<br>Pack<br>Qty |
|----------|-------------------|------------------------|-------|------|-------|-------|-------|------|---------------------|
|          |                   |                        | in    | mm   | in    | mm    | in    | mm   |                     |
| TF10A    | 1/4               | 9/16" - 18             | 0.250 | 6.40 | 0.690 | 17.50 | 0.380 | 9.50 | 5000                |
| TF20B    | 3/8               | 11/16" - 16            | 0.250 | 6.40 | 0.870 | 22.10 | 0.410 | 10.4 | 5000                |
| TF30B    | 1/2               | 13/16" - 16            | 0.250 | 6.40 | 0.940 | 23.90 | 0.470 | 11.9 | 5000                |
| TF40B    | 5/8               | 1" - 14                | 0.250 | 6.40 | 1.160 | 29.50 | 0.570 | 14.5 | 2500                |
| TF50B    | 3/4               | 1 - 3/16" - 12         | 0.250 | 6.40 | 1.320 | 33.50 | 0.610 | 15.5 | 2500                |
| TF60B    | 1                 | 1 - 7/16" - 12         | 0.250 | 6.40 | 1.630 | 41.40 | 0.690 | 17.5 | 1000                |
| TF80B    | 1-1/4             | 1 - 11/16" - 12        | 0.250 | 6.40 | 1.880 | 47.75 | 0.890 | 22.6 | 1000                |

**FP Series**  
NS & NF Class 1-2-3 Threaded Plugs (O-Ring Optional)



Specifications:

- Material: Polypropylene
- Color: Red



Features:

- Can be applied or removed by hand, hex wrench or screwdriver
- Will fit NS and NF Class 1-2-3 standard threads
- Optional O-Ring gives this part a watertight seal for superior leakage protection

| Item No. | Item No.<br>w/ O-Ring | To Plug Standard<br>Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk<br>Pack<br>Qty |
|----------|-----------------------|---------------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------------|
|          |                       |                                 | in    | mm    | in    | mm    | in    | mm   | in    | mm    |                     |
| FP104A   | FP104B                | 7/16" - 20                      | 0.438 | 11.11 | 0.625 | 15.88 | 0.188 | 4.76 | 0.300 | 7.62  | 9500                |
| FP108A   | FP108B                | 9/16" - 18                      | 0.500 | 12.70 | 0.781 | 19.84 | 0.188 | 4.76 | 0.350 | 8.89  | 5000                |
| FP110A   | FP110B                | 5/8" - 18                       | 0.563 | 14.29 | 0.813 | 20.64 | 0.188 | 4.76 | 0.350 | 8.89  | 4500                |
| FP115A   | FP115B                | 3/4" - 16                       | 0.688 | 17.46 | 0.938 | 23.81 | 0.188 | 4.76 | 0.440 | 11.18 | 2700                |
| FP120A   | FP120B                | 7/8" - 14                       | 0.750 | 19.05 | 1.063 | 26.99 | 0.250 | 6.35 | 0.500 | 12.70 | 1800                |
| FP122A   | FP122B                | 1" - 14                         | 0.750 | 19.05 | 1.188 | 30.16 | 0.250 | 6.35 | 0.470 | 11.94 | 1500                |



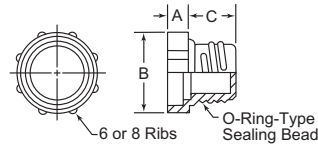
**TMO Series**  
**Threaded Plugs for SAE O-Ring Ports**

Specifications:

- Material: High-Density Polyethylene
- Color: Red

Features:

- Designed with an easy to grip head for ease of hand installation
- Threads meet UN and UNS specifications
- Integral O-Ring type bead prevents leakage and entrance of contaminants
- Protects threaded components from dust, moisture and damage during production, storage and shipment



| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|-------|-------|------|---------------|
|          |                              | in    | mm    | in    | mm    | in    | mm   |               |
| TMO104A  | 7/16"-20                     | 0.320 | 8.13  | 0.650 | 16.51 | 0.380 | 9.65 | 5500          |
| TMO105A  | 1/2"-20                      | 0.320 | 8.13  | 0.720 | 18.29 | 0.380 | 9.65 | 7500          |
| TMO106A  | 9/16"-18                     | 0.360 | 9.14  | 0.780 | 19.81 | 0.380 | 9.65 | 6000          |
| TMO108A  | 3/4"-16                      | 0.400 | 10.16 | 0.980 | 24.89 | 0.380 | 9.65 | 3500          |

| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | Bulk Pack Qty |
|----------|------------------------------|-------|-------|-------|-------|-------|------|---------------|
|          |                              | in    | mm    | in    | mm    | in    | mm   |               |
| TMO110A  | 7/8"-14                      | 0.450 | 11.43 | 1.110 | 28.19 | 0.380 | 9.65 | 2100          |
| TMO112A  | 1-1/16"-12                   | 0.620 | 15.75 | 1.310 | 33.27 | 0.380 | 9.65 | 1200          |
| TMO116A  | 1-5/16"-12                   | 0.620 | 15.75 | 1.560 | 39.62 | 0.380 | 9.65 | 700           |
| TMO120A  | 1-5/8"-12                    | 0.620 | 15.75 | 1.880 | 47.75 | 0.380 | 9.65 | 700           |

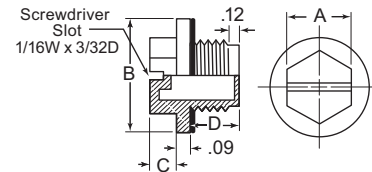
**BLWF Series**  
**UNF Standard Threaded Wide Flange Plugs**

Specifications:

- Material: Plug – Nylon, Gasket – Nitrile
- Color: Plug – Yellow, Gasket – Black

Features:

- The wide flange design keeps any paint flakes away from the hole when removed
- The nylon material absorbs paint keeping paint flakes to a minimum
- The nitrile gasket seals the plug to the mating surface for a watertight seal
- Can be applied or removed by hand, screwdriver or with a torque wrench
- Temperature Range: -40°F - 230°F (-40°C - 110°C)



| Item No. | To Plug UNF Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty |
|----------|-------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------|
|          |                         | in    | mm    | in    | mm    | in    | mm   | in    | mm    |               |
| BLWF100A | 7/16" - 20              | 0.500 | 12.70 | 0.775 | 19.69 | 0.180 | 4.57 | 0.390 | 9.91  | 5000          |
| BLWF105A | 1/2" - 20               | 0.500 | 12.70 | 0.853 | 21.67 | 0.180 | 4.57 | 0.405 | 10.29 | 5000          |
| BLWF110A | 9/16" - 18              | 0.500 | 12.70 | 0.917 | 23.29 | 0.180 | 4.57 | 0.420 | 10.67 | 2500          |
| BLWF115A | 3/4" - 16               | 0.750 | 19.05 | 1.130 | 28.70 | 0.190 | 4.83 | 0.520 | 13.21 | 2500          |
| BLWF120A | 7/8" - 14               | 0.750 | 19.05 | 1.284 | 32.61 | 0.240 | 6.10 | 0.560 | 14.22 | 2500          |
| BLWF125A | 1 - 1/16" - 12          | 1.000 | 25.40 | 1.577 | 40.06 | 0.250 | 6.35 | 0.660 | 16.76 | 1000          |
| BLWF130A | 1 - 3/16" - 12          | 1.000 | 25.40 | 1.722 | 43.74 | 0.300 | 7.62 | 0.700 | 17.78 | 1000          |
| BLWF135A | 1 - 5/16" - 12          | 1.000 | 25.40 | 1.867 | 47.42 | 0.290 | 7.37 | 0.700 | 17.78 | 1000          |
| BLWF140A | 1 - 5/8" - 12           | 1.125 | 28.57 | 2.217 | 56.31 | 0.300 | 7.62 | 0.770 | 19.56 | 500           |
| BLWF145A | 1 - 7/8" - 12           | 1.500 | 38.10 | 2.507 | 63.68 | 0.300 | 7.62 | 0.750 | 19.05 | 500           |

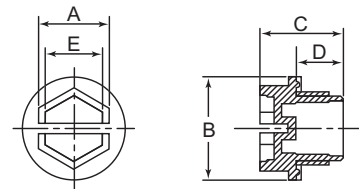
**TSSP Series**  
**Sealing Threaded Plugs For UNF Threads**

Specifications:

- Material: Nylon
- Color: Yellow

Features:

- The double sealing ring design on the underside of the flange provides a positive seal
- Design includes five complete threads for a secure fit
- Can be manually applied or removed with a screwdriver, spanner, socket or allen key or with power tools
- Head designed not to trap liquid
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Temperature Range: -40°F - 320°F (-40°C - 160°C)
- See page 60 for Metric and BSP Threads



See pages 64 and 65 for Application Wizards

| Item No.       | To Plug UNF Thread Size | A     |      | B     |      | C     |      | D     |      | E     |      | Bulk Pack Qty |
|----------------|-------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|---------------|
|                |                         | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm   |               |
| TSSP3/8-24A    | 3/8" - 24               | 0.354 | 9.0  | 0.630 | 16.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.236 | 6.0  | 5000          |
| TSSP7/16-20A   | 7/16" - 20              | 0.394 | 10.0 | 0.669 | 17.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.276 | 7.0  | 5000          |
| TSSP1/2-20A    | 1/2" - 20               | 0.512 | 13.0 | 0.748 | 19.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 3000          |
| TSSP9/16-18A   | 9/16" - 18              | 0.512 | 13.0 | 0.807 | 20.5 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 3000          |
| TSSP5/8-18A    | 5/8" - 18               | 0.591 | 15.0 | 0.866 | 22.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.472 | 12.0 | 3000          |
| TSSP3/4-16A    | 3/4" - 16               | 0.748 | 19.0 | 1.024 | 26.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.630 | 16.0 | 3000          |
| TSSP7/8-14A    | 7/8" - 14               | 0.827 | 21.0 | 1.124 | 28.5 | 0.768 | 19.5 | 0.472 | 12.0 | 0.709 | 18.0 | 3000          |
| TSSP1-14A      | 1" - 14                 | 0.945 | 24.0 | 1.240 | 31.5 | 0.768 | 19.5 | 0.472 | 12.0 | 0.827 | 21.0 | 1000          |
| TSSP1-1/16-12A | 1 - 1/16" - 12          | 0.945 | 24.0 | 1.299 | 33.0 | 0.768 | 19.5 | 0.472 | 12.0 | 0.827 | 21.0 | 1000          |
| TSSP1-3/16-12A | 1 - 3/16" - 12          | 1.181 | 30.0 | 1.437 | 36.5 | 0.886 | 22.5 | 0.591 | 15.0 | 1.063 | 27.0 | 1000          |
| TSSP1-5/16-12A | 1 - 5/16" - 12          | 1.181 | 30.0 | 1.575 | 40.0 | 0.886 | 22.5 | 0.591 | 15.0 | 1.063 | 27.0 | 1000          |
| TSSP1-5/8-12A  | 1 - 5/8" - 12           | 1.417 | 36.0 | 1.870 | 47.5 | 0.886 | 22.5 | 0.591 | 15.0 | 1.299 | 33.0 | 500           |
| TSSP1-7/8-12A  | 1 - 7/8" - 12           | 1.417 | 36.0 | 2.126 | 54.0 | 0.886 | 22.5 | 0.591 | 15.0 | 1.299 | 33.0 | 500           |



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

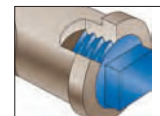
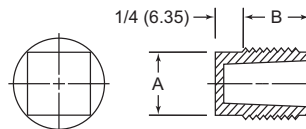


**Specifications:**

- Material: High-Density Polyethylene or Glass-Filled Nylon - See Table
- Color: See Table

**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
- Temperature Range: -40°F - 320°F (-40°C - 160°C)



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

| Item No.  |             | To Plug NPT Thread Size | A       |       | B     |       | Bulk Pack Qty |
|-----------|-------------|-------------------------|---------|-------|-------|-------|---------------|
| Blue HDPE | Natural GFN |                         | in      | mm    | in    | mm    |               |
| R1A       | R1B         | 1"-11 - 1/2             | 3/4     | 19.05 | 0.625 | 15.88 | 1000          |
| R1-1/4A   | R1-1/4C     | 1-1/4" - 11 - 1/2       | 15/16   | 23.81 | 0.625 | 15.88 | 500           |
| R1-1/2A   | R1-1/2C     | 1-1/2" - 11 - 1/2       | 1 - 1/8 | 28.57 | 0.625 | 15.88 | 500           |
| R2A       | R2C         | 2"-11 - 1/2             | 1 - 1/4 | 31.75 | 0.625 | 15.88 | 500           |

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

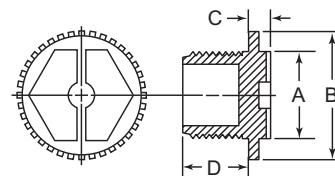


**Specifications:**

- 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 Plug NPT Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty |
|----------|--------------------|-------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------|
|          |                    |                         | in    | mm    | in    | mm    | in    | mm   | in    | mm    |               |
| FPF1/8A  | FPF1/8B            | 1/8"                    | 0.348 | 8.84  | 0.560 | 14.22 | 0.250 | 6.35 | 0.250 | 6.35  | 5000          |
| FPF1/4A  | FPF1/4B            | 1/4"                    | 0.489 | 12.42 | 0.740 | 18.80 | 0.310 | 7.87 | 0.310 | 7.87  | 5000          |
| FPF3/8A  | FPF3/8B            | 3/8"                    | 0.562 | 14.27 | 0.850 | 21.59 | 0.320 | 8.13 | 0.350 | 8.89  | 5000          |
| FPF1/2A  | FPF1/2B            | 1/2"                    | 0.705 | 17.91 | 1.040 | 26.42 | 0.320 | 8.13 | 0.500 | 12.70 | 3000          |
| FPF3/4A  | FPF3/4B            | 3/4"                    | 0.987 | 25.07 | 1.310 | 33.27 | 0.320 | 8.13 | 0.630 | 16.00 | 1500          |
| FPF1A    | FPF1B              | 1"                      | 1.130 | 28.70 | 1.530 | 38.86 | 0.320 | 8.13 | 0.630 | 16.00 | 1000          |

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

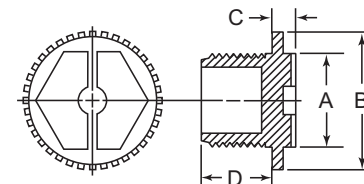


**Specifications:**

- Material: Nylon
- Color: Natural

**Features:**

- Unique head design allows the user to apply or remove 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
- 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
- Temperature Range: -40°F - 230°F (-40°C - 110°C)



| Item No. | Item No. w/ O-Ring | To Plug NPT Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty |
|----------|--------------------|-------------------------|-------|-------|-------|-------|-------|------|-------|-------|---------------|
|          |                    |                         | in    | mm    | in    | mm    | in    | mm   | in    | mm    |               |
| FPF1/8C  | FPF1/8D            | 1/8" NPT                | 0.348 | 8.84  | 0.560 | 14.22 | 0.250 | 6.35 | 0.250 | 6.35  | 5000          |
| FPF1/4C  | FPF1/4D            | 1/4" NPT                | 0.489 | 12.42 | 0.740 | 18.80 | 0.310 | 7.87 | 0.310 | 7.87  | 5000          |
| FPF3/8C  | FPF3/8D            | 3/8" NPT                | 0.562 | 14.27 | 0.850 | 21.59 | 0.320 | 8.13 | 0.350 | 8.89  | 5000          |
| FPF1/2C  | FPF1/2D            | 1/2" NPT                | 0.705 | 17.91 | 1.040 | 26.42 | 0.320 | 8.13 | 0.500 | 12.70 | 3000          |
| FPF3/4C  | FPF3/4D            | 3/4" NPT                | 0.987 | 25.07 | 1.310 | 33.27 | 0.320 | 8.13 | 0.630 | 16.00 | 1500          |
| FPF1C    | FPF1D              | 1" NPT                  | 1.130 | 28.70 | 1.530 | 38.86 | 0.320 | 8.13 | 0.630 | 16.00 | 1000          |



**TP Metric & TPBSP Series  
 Metric & BSP Threaded Plugs**

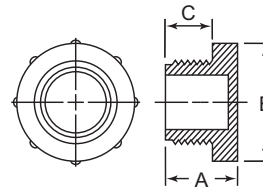


**Specifications:**

- Material: Low-Density Polyethylene
- Color: Red

**Features:**

- Series accommodates an extensive range of metric and BSP/Gas threaded sizes
- Knurled head for easy grip
- Secure fit for excellent protection against dirt, moisture and corrosion



**Metric Threads**

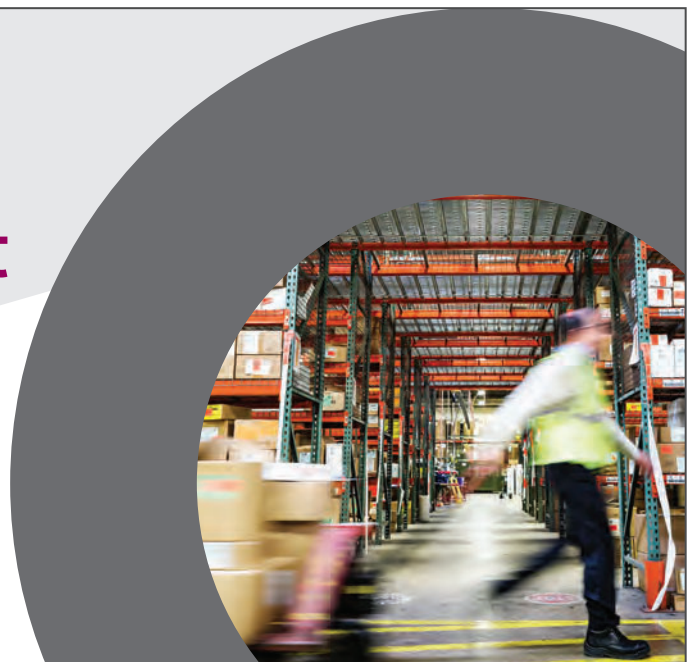
| Item No. | To Plug Metric Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty |
|----------|----------------------------|-------|-------|-------|-------|-------|-------|---------------|
|          |                            | in    | mm    | in    | mm    | in    | mm    |               |
| 12011A   | M8 x 1                     | 0.562 | 14.27 | 0.484 | 12.29 | 0.374 | 9.50  | 5000          |
| 12012A   | M10 x 1                    | 0.574 | 14.58 | 0.602 | 15.29 | 0.409 | 10.39 | 5000          |
| 12013A   | M12 x 1                    | 0.657 | 16.69 | 0.728 | 18.49 | 0.421 | 10.69 | 5000          |
| 12017A   | M12 x 1.5                  | 0.641 | 16.28 | 0.657 | 16.69 | 0.342 | 8.69  | 5000          |
| 12018A   | M14 x 1.5                  | 0.677 | 17.20 | 0.728 | 18.49 | 0.374 | 9.50  | 5000          |
| 12019A   | M16 x 1.5                  | 0.677 | 17.20 | 0.866 | 22.00 | 0.492 | 12.50 | 3000          |
| 10458A   | M18 x 1.5                  | 0.720 | 18.29 | 0.960 | 24.38 | 0.539 | 13.69 | 4000          |
| 12020A   | M20 x 1.5                  | 0.716 | 18.19 | 1.035 | 26.29 | 0.551 | 14.00 | 3000          |
| 10128A   | M22 x 1.5                  | 0.720 | 18.29 | 1.110 | 28.19 | 0.539 | 13.69 | 3000          |
| 12021A   | M24 x 1.5                  | 0.728 | 18.49 | 1.232 | 31.29 | 0.543 | 13.79 | 2000          |
| 12022A   | M25 x 1.5                  | 0.728 | 18.49 | 1.232 | 31.30 | 0.551 | 14.00 | 2500          |
| 12023A   | M26 x 1.5                  | 0.736 | 18.69 | 1.287 | 32.69 | 0.543 | 13.79 | 2000          |
| 12030A   | M52 x 1.5                  | 0.846 | 21.50 | 2.508 | 63.70 | 0.610 | 15.50 | 500           |

**BSP/Gas Threads**

| Item No. | To Plug BSP/GAS Thread Size | A     |       | B     |        | C     |       | Bulk Pack Qty |
|----------|-----------------------------|-------|-------|-------|--------|-------|-------|---------------|
|          |                             | in    | mm    | in    | mm     | in    | mm    |               |
| 10651A   | 1/8" x 28                   | 0.413 | 10.50 | 0.646 | 16.40  | 0.165 | 4.20  | 5000          |
| 10588A   | 1/4" x 19                   | 0.504 | 12.80 | 0.740 | 18.80  | 0.256 | 6.50  | 5000          |
| 10996A   | 3/8" x 19                   | 0.472 | 12.00 | 0.902 | 22.90  | 0.217 | 5.50  | 5000          |
| 10590A   | 1/2" x 14                   | 0.681 | 17.30 | 1.102 | 28.00  | 0.406 | 10.30 | 3000          |
| 10511A   | 5/8" x 14                   | 0.724 | 18.40 | 1.232 | 31.30  | 0.547 | 13.90 | 2500          |
| 10731A   | 3/4" x 14                   | 0.669 | 17.00 | 1.272 | 32.30  | 0.433 | 11.00 | 2000          |
| 11429B   | 7/8" x 14                   | 0.713 | 18.10 | 1.496 | 38.00  | 0.531 | 13.50 | 1500          |
| 10810A   | 1" x 11                     | 0.665 | 16.90 | 1.567 | 39.80  | 0.425 | 10.80 | 1500          |
| 10459A   | 1-1/4" x 11                 | 0.823 | 20.90 | 1.965 | 49.90  | 0.591 | 15.00 | 800           |
| 11242A   | 1-1/2" x 11                 | 0.665 | 16.90 | 2.173 | 55.20  | 0.425 | 10.80 | 600           |
| 10496A   | 2" x 11                     | 0.689 | 17.50 | 2.902 | 73.70  | 0.421 | 10.70 | 400           |
| 10319A   | 3" x 11                     | 0.650 | 16.50 | 4.134 | 105.00 | 0.445 | 11.30 | 150           |

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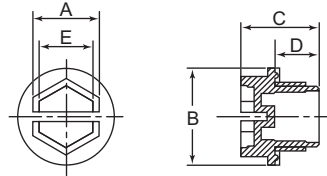






CAPS, PLUGS & NETTING  
**THREADED PLUGS**

**TSSP Series**  
Sealing Threaded Plugs For Metric/BSP Threads



Specifications:

- Material: Nylon
- Color: Yellow

Features:

- The double sealing ring design on the underside of the flange provides a positive seal
- Design includes five complete threads for a secure fit
- Can be manually applied or removed with a screwdriver, spanner, socket or allen key or with power tools
- Head designed not to trap liquid
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Temperature Range: -40°F - 320°F (-40°C - 160°C)
- See page 57 for UNF Threads



See pages 64 and 65 for Application Wizards

**Metric Threads**

| Item No.     | To Plug Metric Thread Size | A     |      | B     |      | C     |      | D     |      | E     |      | Bulk Pack Qty |
|--------------|----------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|---------------|
|              |                            | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm   |               |
| 462836A      | M8 x 1                     | 0.276 | 7.0  | 0.492 | 12.5 | 0.610 | 15.5 | 0.315 | 8.0  | 0.157 | 4.0  | 5000          |
| 462837A      | M10 x 1                    | 0.354 | 9.0  | 0.571 | 14.5 | 0.650 | 16.5 | 0.354 | 9.0  | 0.236 | 6.0  | 5000          |
| TSSPM10X1.5A | M10 x 1.5                  | 0.354 | 9.0  | 0.571 | 14.5 | 0.650 | 16.5 | 0.354 | 9.0  | 0.236 | 6.0  | 500           |
| TSSPM12X1A   | M12 x 1                    | 0.394 | 10.0 | 0.669 | 17.0 | 0.650 | 16.5 | 0.354 | 9.0  | 0.276 | 7.0  | 500           |
| 462838A      | M12 x 1.5                  | 0.394 | 10.0 | 0.669 | 17.0 | 0.650 | 16.5 | 0.354 | 9.0  | 0.276 | 7.0  | 5000          |
| 462839A      | M14 x 1.5                  | 0.512 | 13.0 | 0.748 | 19.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 5000          |
| 462840A      | M16 x 1.5                  | 0.591 | 15.0 | 0.878 | 22.3 | 0.689 | 17.5 | 0.366 | 9.3  | 0.472 | 12.0 | 5000          |
| 462841A      | M18 x 1.5                  | 0.669 | 17.0 | 0.945 | 24.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.551 | 14.0 | 3000          |
| 462842A      | M20 x 1.5                  | 0.748 | 19.0 | 1.024 | 26.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.630 | 16.0 | 3000          |
| 462843A      | M22 x 1.5                  | 0.827 | 21.0 | 1.102 | 28.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.709 | 18.0 | 3000          |
| TSSPM24X1.5A | M24 x 1.5                  | 0.945 | 24.0 | 1.181 | 30.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.827 | 21.0 | 500           |
| TSSPM26X1.5A | M26 x 1.5                  | 0.945 | 24.0 | 1.260 | 32.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| 466977A      | M27 x 1.5                  | 0.945 | 24.0 | 1.299 | 33.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| 466985A      | M27 x 2                    | 0.945 | 24.0 | 1.299 | 33.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250           |
| TSSPM28X1.5A | M28 x 1.5                  | 0.945 | 24.0 | 1.339 | 34.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| TSSPM30X1.5A | M30 x 1.5                  | 0.945 | 24.0 | 1.496 | 38.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| TSSPM30X2A   | M30 x 2                    | 0.945 | 24.0 | 1.496 | 38.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250           |
| TSSPM32X1.5A | M32 x 1.5                  | 0.945 | 24.0 | 1.575 | 40.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| TSSPM33X2A   | M33 x 2                    | 0.945 | 24.0 | 1.575 | 40.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250           |
| TSSPM36X1.5A | M36 x 1.5                  | 0.945 | 24.0 | 1.772 | 45.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500           |
| TSSPM36X2A   | M36 x 2                    | 0.945 | 24.0 | 1.772 | 45.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250           |
| TSSPM38X1.5A | M38 x 1.5                  | 0.945 | 24.0 | 1.890 | 48.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 250           |
| TSSPM42X2A   | M42 x 2                    | 1.181 | 30.0 | 1.969 | 50.0 | 0.866 | 22   | 0.531 | 13.5 | 1.063 | 27.0 | 250           |
| TSSPM45X1.5A | M45 x 1.5                  | 1.181 | 30.0 | 2.047 | 52.0 | 0.846 | 21.5 | 0.472 | 12.0 | 1.063 | 27.0 | 250           |
| TSSPM45X2A   | M45 x 2                    | 1.181 | 30.0 | 1.969 | 50.0 | 0.866 | 22   | 0.531 | 13.5 | 1.063 | 27.0 | 250           |
| TSSPM48X2A   | M48 x 2                    | 1.181 | 30.0 | 2.165 | 55.0 | 0.906 | 23   | 0.531 | 13.5 | 1.063 | 27.0 | 100           |
| TSSPM52X1.5A | M52 x 1.5                  | 1.181 | 30.0 | 2.362 | 60.0 | 0.866 | 22   | 0.472 | 12.0 | 1.063 | 27.0 | 250           |
| TSSPM52X2A   | M52 x 2                    | 1.181 | 30.0 | 2.362 | 60.0 | 0.906 | 23   | 0.531 | 13.5 | 1.063 | 27.0 | 100           |

**BSP/Gas Threads**

| Item No. | To Plug BSP/GAS Thread Size | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty |
|----------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|          |                             | in    | mm    | in    | mm    | in    | mm    | in    | mm    | in    | mm    |               |
| 462882A  | 1/8" x 28                   | 0.472 | 12.00 | 0.630 | 16.00 | 0.610 | 15.50 | 0.315 | 8.00  | 0.354 | 9.00  | 5000          |
| 462848A  | 1/4" x 19                   | 0.512 | 13.00 | 0.748 | 19.00 | 0.689 | 17.50 | 0.394 | 10.00 | 0.394 | 10.00 | 5000          |
| 462849A  | 3/8" x 19                   | 0.591 | 15.00 | 0.866 | 22.00 | 0.689 | 17.50 | 0.394 | 10.00 | 0.472 | 12.00 | 5000          |
| 462850A  | 1/2" x 14                   | 0.748 | 19.00 | 1.063 | 27.00 | 0.768 | 19.50 | 0.472 | 12.00 | 0.630 | 16.00 | 3000          |
| 462851A  | 3/4" x 14                   | 0.945 | 24.00 | 1.260 | 32.00 | 0.768 | 19.50 | 0.472 | 12.00 | 0.827 | 21.00 | 2000          |
| 462852A  | 1" x 11                     | 1.181 | 30.00 | 1.575 | 40.00 | 0.886 | 22.50 | 0.591 | 15.00 | 1.063 | 27.00 | 1000          |
| 462853A  | 1-1/4" x 11                 | 1.417 | 36.00 | 1.969 | 50.00 | 0.886 | 22.50 | 0.591 | 15.00 | 1.299 | 33.00 | 400           |



**HDPE Metric Threaded O-Ring Plugs**

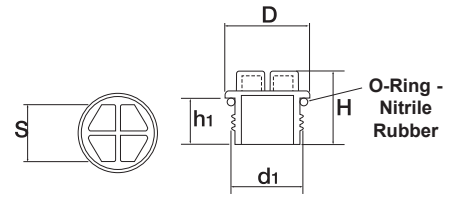


**Specifications:**

- Material: High-Density Polyethylene
- Color: Yellow

**Features:**

- Can be applied or removed by spanner, screwdriver or socket, or by hand



| Item No. | To Plug Metric Thread Size | D    | H    | h1   | S    | Bulk Pack Qty |
|----------|----------------------------|------|------|------|------|---------------|
|          | d1                         | mm   | mm   | mm   | mm   |               |
| 498659   | M8 x 1                     | 12.5 | 17.0 | 10.0 | 6.0  | 500           |
| 498660   | M10 x 1                    | 14.5 | 17.2 | 10.0 | 7.0  | 500           |
| 498661   | M12 x 1                    | 17.0 | 17.2 | 10.0 | 10.0 | 500           |
| 498662   | M10 x 1.5                  | 14.5 | 19.2 | 12.0 | 7.0  | 500           |
| 498663   | M12 x 1.5                  | 17.0 | 19.2 | 12.0 | 10.0 | 500           |
| 498664   | M14 x 1.5                  | 22.0 | 19.2 | 12.0 | 10.0 | 500           |
| 498540   | M16 x 1.5                  | 24.0 | 20.4 | 12.0 | 13.0 | 500           |
| 498541   | M18 x 1.5                  | 24.0 | 20.4 | 12.0 | 13.0 | 500           |
| 498542   | M20 x 1.5                  | 26.0 | 20.4 | 12.0 | 15.0 | 250           |
| 498665   | M22 x 1.5                  | 28.0 | 20.4 | 12.0 | 15.0 | 250           |
| 498543   | M24 x 1.5                  | 30.0 | 20.4 | 12.0 | 17.0 | 250           |
| 498544   | M26 x 1.5                  | 32.0 | 20.4 | 12.0 | 19.0 | 250           |
| 498546   | M30 x 1.5                  | 38.0 | 20.6 | 12.0 | 22.0 | 250           |
| 498547   | M32 x 1.5                  | 40.0 | 20.6 | 12.0 | 24.0 | 250           |
| 498666   | M36 x 1.5                  | 45.0 | 20.6 | 12.0 | 24.0 | 100           |
| 498667   | M38 x 1.5                  | 48.0 | 20.6 | 12.0 | 24.0 | 100           |
| 498668   | M27 x 2.0                  | 33.0 | 24.6 | 15.0 | 19.0 | 250           |
| 498548   | M30 x 2.0                  | 38.0 | 24.6 | 15.0 | 22.0 | 250           |
| 498549   | M33 x 2.0                  | 40.0 | 24.6 | 15.0 | 24.0 | 250           |
| 498550   | M36 x 2.0                  | 45.0 | 24.6 | 15.0 | 24.0 | 100           |
| 498669   | M42 x 2.0                  | 50.0 | 24.6 | 15.0 | 24.0 | 100           |
| 498551   | M45 x 2.0                  | 52.0 | 25.0 | 15.0 | 30.0 | 100           |
| 498670   | M48 x 2.0                  | 55.0 | 25.0 | 15.0 | 30.0 | 100           |
| 498671   | M52 x 2.0                  | 60.0 | 25.0 | 15.0 | 7.0  | 100           |

**Nylon Metric Threaded O-Ring Plugs**

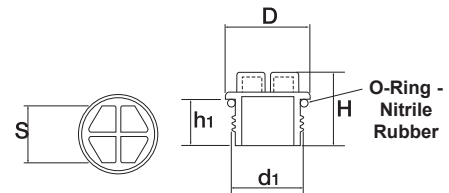


**Specifications:**

- Material: Nylon
- Color: Orange

**Features:**

- Metric thread
- Can be applied or removed by spanner, screwdriver or socket, or by hand
- Nylon is recommended where higher abrasion and slightly higher temperatures are needed where a polyethylene plug will not work



| Item No. | To Plug Metric Thread Size | D    | H    | h1   | S    | Bulk Pack Qty |
|----------|----------------------------|------|------|------|------|---------------|
|          | d1                         | mm   | mm   | mm   | mm   |               |
| 900535   | M8 x 1                     | 12.5 | 17.0 | 10.0 | 6.0  | 500           |
| 900536   | M10 x 1                    | 14.5 | 17.2 | 10.0 | 7.0  | 500           |
| 900537   | M12 x 1                    | 17.0 | 17.2 | 10.0 | 10.0 | 500           |
| 900538   | M10 x 1.5                  | 14.5 | 19.2 | 12.0 | 7.0  | 500           |
| 900539   | M12 x 1.5                  | 17.0 | 19.2 | 12.0 | 10.0 | 500           |
| 900540   | M14 x 1.5                  | 22.0 | 19.2 | 12.0 | 10.0 | 500           |
| 900541   | M16 x 1.5                  | 24.0 | 20.4 | 12.0 | 13.0 | 500           |
| 900542   | M18 x 1.5                  | 24.0 | 20.4 | 12.0 | 13.0 | 500           |
| 900543   | M20 x 1.5                  | 26.0 | 20.4 | 12.0 | 15.0 | 250           |
| 900544   | M22 x 1.5                  | 28.0 | 20.4 | 12.0 | 15.0 | 250           |
| 900545   | M24 x 1.5                  | 30.0 | 20.4 | 12.0 | 17.0 | 250           |
| 900546   | M26 x 1.5                  | 32.0 | 20.4 | 12.0 | 19.0 | 250           |
| 900547   | M30 x 1.5                  | 38.0 | 20.6 | 12.0 | 22.0 | 250           |
| 900548   | M32 x 1.5                  | 40.0 | 20.6 | 12.0 | 24.0 | 250           |
| 900549   | M36 x 1.5                  | 45.0 | 20.6 | 12.0 | 24.0 | 100           |
| 900550   | M38 x 1.5                  | 48.0 | 20.6 | 12.0 | 24.0 | 100           |
| 900551   | M27 x 2.0                  | 33.0 | 24.6 | 15.0 | 19.0 | 250           |
| 900552   | M30 x 2.0                  | 38.0 | 24.6 | 15.0 | 22.0 | 250           |
| 900553   | M33 x 2.0                  | 40.0 | 24.6 | 15.0 | 24.0 | 250           |
| 900554   | M36 x 2.0                  | 45.0 | 24.6 | 15.0 | 24.0 | 100           |
| 900555   | M42 x 2.0                  | 50.0 | 24.6 | 15.0 | 24.0 | 100           |
| 900556   | M45 x 2.0                  | 52.0 | 25.0 | 15.0 | 30.0 | 100           |
| 900557   | M48 x 2.0                  | 55.0 | 25.0 | 15.0 | 30.0 | 100           |
| 900558   | M52 x 2.0                  | 60.0 | 25.0 | 15.0 | 7.0  | 100           |



## PROPANE VALVE PRODUCT CAPS & THREADED PLUGS

### PPC Series Overfill Prevention Device Cylinder Valve Caps



PPC1A



PPC3RC

Specifications:

- Material: See Table
- Color: See Table

Features:

- Protects threads from damage and contaminants during shipping and use
- Easy to apply
- PPC1A - dust cap and retaining strap with warning labels imprinted in English and Spanish
- PPC3RC is a protective cap with an internal ring and tear feature

| Item No. | Material | Color | Product Usage                  | Bulk Pack Qty |
|----------|----------|-------|--------------------------------|---------------|
| PPC1A    | LDPE     | Black | OPD Valve for Propane Cylinder | 550           |
| PPC3RC   | LLDPE    | Blue  | OPD Valve for Propane Cylinder | 900           |

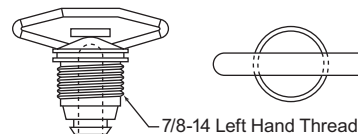
### K Series Overfill Prevention Device Cylinder Valve Plugs

Specifications:

- Material: High-Density Polyethylene
- Color: Red

Features:

- Protects threads from damage and contaminants during shipping and use
- Easy to apply
- Flat strap attachment device



| Item No. | Description          | Product Usage                  | Bulk Pack Qty |
|----------|----------------------|--------------------------------|---------------|
| K737AC   | 100 Per Bag with Tag | OPD Valve for Propane Cylinder | 1000          |

### DP Series UNJ/UNJS Threaded Plugs

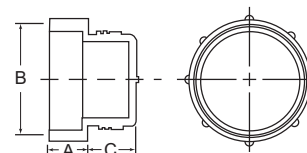


Specifications:

- Material: High-Density Polyethylene
- Color: Red

Features:

- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation
- Threads meet UNJ and UNJS specifications



| Item No. | To Plug UNJ/UNJS Thread Size | Tubing Size |       | A    |       | B     |       | C     |      | Bulk Pack Qty |
|----------|------------------------------|-------------|-------|------|-------|-------|-------|-------|------|---------------|
|          |                              | in          | mm    | in   | mm    | in    | mm    |       |      |               |
| DP3A     | 3/8"-28                      | 3/16        | 0.250 | 6.35 | 0.440 | 11.18 | 0.280 | 7.11  | 5000 |               |
| DP4A     | 7/16"-24                     | 1/4         | 0.310 | 7.87 | 0.560 | 14.22 | 0.300 | 7.62  | 5000 |               |
| DP5A     | 1/2"-24                      | 5/16        | 0.310 | 7.87 | 0.620 | 15.75 | 0.300 | 7.62  | 5000 |               |
| DP6A     | 9/16"-20                     | 3/8         | 0.310 | 7.87 | 0.690 | 17.53 | 0.320 | 8.13  | 5000 |               |
| DP8A     | 23/32"-20                    | 1/2         | 0.310 | 7.87 | 0.880 | 22.35 | 0.320 | 8.13  | 5000 |               |
| DP10A    | 27/32"-18                    | 5/8         | 0.310 | 7.87 | 1.000 | 25.40 | 0.400 | 10.16 | 2500 |               |
| DP12A    | 1"-16                        | 3/4         | 0.310 | 7.87 | 1.120 | 28.45 | 0.420 | 10.67 | 2500 |               |
| DP14A    | 1-1/8"-16                    | 7/8         | 0.250 | 6.35 | 1.250 | 31.75 | 0.450 | 11.43 | 2500 |               |
| DP16A    | 1-1/4"-14                    | 1           | 0.250 | 6.35 | 1.380 | 35.05 | 0.450 | 11.43 | 2000 |               |
| DP20A    | 1-33/64"-14                  | 1-1/4       | 0.250 | 6.35 | 1.620 | 41.15 | 0.450 | 11.43 | 1000 |               |
| DP21SA   | 1-37/64"-14                  | 1-1/4       | 0.250 | 6.35 | 1.750 | 44.45 | 0.460 | 11.68 | 1000 |               |
| DP24A    | 1-25/32"-14                  | 1-1/2       | 0.250 | 6.35 | 2.000 | 50.80 | 0.550 | 13.97 | 1000 |               |
| DP25SA   | 1-27/32"-14                  | 1-1/2       | 0.250 | 6.35 | 2.120 | 53.85 | 0.550 | 13.97 | 1000 |               |



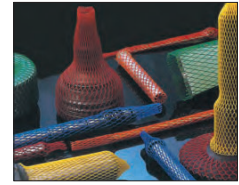
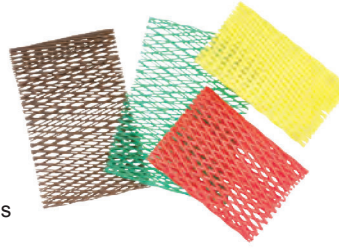
### FNC Series Flexible Protective Netting (Tector-Net)

#### Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

#### Features:

- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form



| Item No.     | Color  | Ø Flexible Range |                 | Roll Length |     | Pack Qty |
|--------------|--------|------------------|-----------------|-------------|-----|----------|
|              |        | in               | mm              | Ft          | M   |          |
| FNC00250037S | Red    | 0.250 - 0.375    | 6.35 - 9.53     | 820         | 249 | 1        |
| FNC00250037L | Red    | 0.250 - 0.375    | 6.35 - 9.53     | 1500        | 457 | 1        |
| FNC00250050S | Orange | 0.375 - 0.500    | 6.35 - 12.70    | 820         | 249 | 1        |
| FNC00250050L | Orange | 0.375 - 0.500    | 6.35 - 12.70    | 1500        | 457 | 1        |
| FNC00500100S | Blue   | 0.500 - 1.000    | 12.70 - 25.40   | 820         | 249 | 1        |
| FNC00500100L | Blue   | 0.500 - 1.000    | 12.70 - 25.40   | 1500        | 457 | 1        |
| FNC01000200S | Yellow | 1.000 - 2.000    | 25.40 - 50.80   | 164         | 49  | 1        |
| FNC01000200L | Yellow | 1.000 - 2.000    | 25.40 - 50.80   | 1500        | 457 | 1        |
| FNC02000400S | Red    | 2.000 - 4.000    | 50.80 - 101.60  | 164         | 49  | 1        |
| FNC02000400L | Red    | 2.000 - 4.000    | 50.80 - 101.60  | 1500        | 457 | 1        |
| FNC04000600S | Green  | 4.000 - 6.000    | 101.60 - 152.40 | 164         | 49  | 1        |
| FNC06000800S | Brown  | 6.000 - 8.000    | 152.40 - 203.20 | 164         | 49  | 1        |
| FNC1000SRA   | Green  | 10.000 - 12.000  | 254.00 - 304.80 | 82          | 24  | 1        |

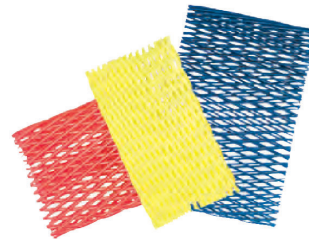
### FNH Series Heavy Gauge Protective Netting

#### Specifications:

- Material: Low-Density Polyethylene
- Color: See Table

#### Features:

- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form
- Has heavier gauge material for applications that need a more durable protection



| Item No.   | Color  | Ø Flexible Range |                 | Roll Length |     | Pack Qty |
|------------|--------|------------------|-----------------|-------------|-----|----------|
|            |        | in               | mm              | Ft          | M   |          |
| FNH0050LRA | Blue   | 0.500 - 1.000    | 12.70 - 25.40   | 820         | 249 | 1        |
| FNH0125A   | Yellow | 1.250 - 1.625    | 31.75 - 41.28   | 82          | 24  | 1        |
| FNH0200A   | Red    | 2.000 - 2.500    | 50.80 - 63.50   | 82          | 24  | 1        |
| FNH0250A   | Green  | 2.500 - 3.000    | 63.50 - 76.20   | 82          | 24  | 1        |
| FNH0300A   | Green  | 3.000 - 4.000    | 76.20 - 101.60  | 82          | 24  | 1        |
| FNH0400A   | Yellow | 4.000 - 4.500    | 101.60 - 114.30 | 82          | 24  | 1        |
| FNH0475A   | Red    | 4.750 - 5.500    | 120.65 - 139.70 | 82          | 24  | 1        |
| FNH0550A   | Blue   | 5.500 - 6.750    | 139.70 - 171.45 | 82          | 24  | 1        |
| FNH0675A   | Green  | 6.750 - 8.000    | 171.45 - 203.20 | 82          | 24  | 1        |



## HASSLE-FREE SERVICE



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Tube & Hydraulic Fittings

Caps

Non-Threaded Caps Choices



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TS Series  
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DM Series  
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TCUNF Series  
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G Series  
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| Your Application |           |              | Non-Threaded Cap Choices |           |           |             | Threaded Cap Choices |          |  |
|------------------|-----------|--------------|--------------------------|-----------|-----------|-------------|----------------------|----------|--|
| Thread Size      | Tube Size | Fitting Size | Numbered Series          | E Series  | TS Series | DM Series   | TCUNF Series         | G Series |  |
| 5/16 - 24        | 1/8       | -2           | 008A                     | —         | —         | DM0304-1/2A | —                    | —        |  |
| 3/8 - 24         | 3/16      | -3           | 011A                     | E3/8A     | TS3A      | DM0360-1/2A | 10251A               | G1A      |  |
| 7/16 - 20        | 1/4       | -4           | 013A                     | E7/16A    | TS4A      | DM0437-1/2A | 10332A               | G2A      |  |
| 1/2 - 20         | 5/16      | -5           | 017A                     | E1/2A     | TS5A      | DM0490-1/2A | 10528A               | G5A      |  |
| 9/16 - 18        | 3/8       | -6           | 020A                     | E9/16A    | TS6A      | DM0544-1/2A | 11041A               | G6A      |  |
| 5/8 - 18         | 3/8       | —            | 021A                     | E5/8A     | TS10348A  | DM0600-1A   | 10653A               | G11A     |  |
| 11/16 - 16       | —         | -7           | 026A                     | E11/16B   | TS7A      | DM0665-1A   | —                    | —        |  |
| 3/4 - 16         | 1/2       | -8           | 028A                     | E3/4A     | TS8A      | DM0725-1A   | 12847A               | G14A     |  |
| 13/16 - 16       | —         | -9           | 030A                     | E13/16A   | TS9A      | DM0750-1A   | 12825A               | —        |  |
| 7/8 - 14         | 5/8       | -10          | 035A                     | E7/8A     | TS10A     | DM0843-1A   | 11089A               | G17A     |  |
| 1 - 14           | —         | -11          | 041A                     | E1A       | TS11A     | DM0985-1A   | 12826A               | G21A     |  |
| 1 - 1/16 - 12    | 3/4       | -12          | 042A                     | E1-1/16A  | TS12A     | DM1000-1A   | 10685A               | G22A     |  |
| 1 - 3/16 - 12    | 7/8       | -13          | 1040A                    | E1-3/16B  | TS13A     | DM1125-1A   | 10163A               | G25A     |  |
| 1 - 5/16 - 12    | 1         | -16          | 049A                     | E1-5/16B  | TS16A     | DM1250-1A   | 10151A               | G27A     |  |
| 1 - 7/16 - 12    | —         | -17          | 053A                     | E1-7/16B  | TS17A     | DM1375-1A   | 10185A               | —        |  |
| 1 - 5/8 - 12     | 1-1/4     | -20          | 056A                     | E1-5/8B   | TS20A     | DM1593-1A   | 11053A               | G30A     |  |
| 1 - 11/16 - 12   | —         | -21          | 056A                     | E1-11/16B | TS21A     | DM1625-1A   | —                    | —        |  |
| 1 - 7/8 - 12     | 1-1/2     | -24          | 062A                     | E1-7/8B   | TS24A     | DM1875-1A   | 11804A               | —        |  |
| 2 - 1/4 - 12     | 1-3/4     | -28          | 072A                     | —         | —         | DM2156-1A   | —                    | —        |  |

Plugs

Non-Threaded Plug Choices



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Threaded Plug Choices



TPUNF Series  
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BL Series  
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BLM Series  
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BLWF Series  
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| Your Application |           |              | Non-Threaded Plug Choices |           |              | Threaded Plug Choices |            |             |
|------------------|-----------|--------------|---------------------------|-----------|--------------|-----------------------|------------|-------------|
| Thread Size      | Tube Size | Fitting Size | Numbered Series           | CP Series | TPUNF Series | BL Series             | BLM Series | BLWF Series |
| 5/16 - 24        | 1/8       | -2           | 005A                      | CP5A      | 10709A       | —                     | —          | —           |
| 3/8 - 24         | 3/16      | -3           | 007A                      | CP7A      | 10692A       | —                     | —          | —           |
| 7/16 - 20        | 1/4       | -4           | 008A                      | CP8A      | 10763A       | BL3A                  | BLM3B      | BLWF100A    |
| 1/2 - 20         | 5/16      | -5           | 010A                      | CP10A     | 10696A       | B4A                   | BLM4B      | BLWF105A    |
| 9/16 - 18        | 3/8       | -6           | 013A                      | CP14A     | 10668A       | BL5A                  | BLM5B      | BLWF110A    |
| 5/8 - 18         | 3/8       | —            | 014A                      | CP15B     | 10940A       | B6A                   | BLM6B      | —           |
| 3/4 - 16         | 1/2       | -8           | 021A                      | CP19A     | 10575A       | BL7A                  | BLM7B      | BLWF115A    |
| 7/8 - 14         | 5/8       | -10          | 026A                      | CP24A     | 10326A       | BL8A                  | BLM8B      | BLWF120A    |
| 1 - 14           | —         | —            | 030A                      | CP31A     | 12785A       | B9A                   | BLM9B      | —           |
| 1 - 1/16 - 12    | 3/4       | -12          | 035A                      | CP35A     | 10460A       | BL10A                 | BLM10B     | BLWF125A    |
| 1 - 3/16 - 12    | 7/8       | -13          | 041A                      | CP40A     | 11506A       | BL11A                 | BLM11B     | BLWF130A    |
| 1 - 5/16 - 12    | 1         | -16          | 044A                      | CP44A     | 10671A       | BL12A                 | BLM12B     | BLWF135A    |
| 1 - 5/8 - 12     | 1 - 1/4   | -20          | 052A                      | CP55A     | 11752A       | BL13A                 | BLM13B     | BLWF140A    |
| 2 - 1/4 - 12     | 1 - 3/4   | -28          | 066A                      | CP61A     | —            | —                     | —          | —           |

Threaded NPT Fittings

Caps



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Y Series  
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DM Series  
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ECS Series  
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| Your Application       |                 |           |             |            |
|------------------------|-----------------|-----------|-------------|------------|
| To Cap NPT Thread Size | Numbered Series | Y Series  | DM Series   | ECS Series |
| 1/8                    | 011A            | Y1/8A     | DM0375-1/2A | ECS0125A   |
| 1/4                    | 018A            | Y1/4A     | DM0500-1/2A | ECS0250A   |
| 3/8                    | 022A            | Y3/8A     | DM0625-1/2A | ECS0375A   |
| 1/2                    | 028A            | Y1/2A     | DM0843-1A   | ECS0500A   |
| 3/4                    | 040A            | Y3/4A     | DM1000-1A   | ECS0750A   |
| 1                      | 045A            | Y1A       | DM1250-1A   | ECS1000A   |
| 1 - 1/4                | 056A            | Y1 - 1/4A | DM1875-1A   | ECS1250A   |
| 1 - 1/2                | 060A            | Y1 - 1/2A | DM2375-1A   | ECS1500A   |
| 2                      | 071A            | Y2A       | DM2750-1A   | ECS2000A   |

Plugs



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R Series  
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PFP Series  
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| Your Application        |                 |           |           |            |
|-------------------------|-----------------|-----------|-----------|------------|
| To Plug NPT Thread Size | Numbered Series | CP Series | R Series  | PFP Series |
| 1/8                     | 008A            | CP8A      | R1/8A     | PFP1/8A    |
| 1/4                     | 011A            | CP11A     | R1/4A     | PFP1/4A    |
| 3/8                     | 017A            | —         | R3/8A     | PFP3/8A    |
| 1/2                     | 023A            | CP23A     | R1/2A     | PFP1/2A    |
| 3/4                     | 035A            | CP35A     | R3/4A     | PFP3/4A    |
| 1                       | 042A            | CP44A     | R1A       | PFP1A      |
| 1 - 1/4                 | 054A            | CP55A     | R1 - 1/4A | —          |
| 1 - 1/2                 | 057A            | CP57A     | R1 - 1/2A | —          |
| 2                       | 066A            | —         | R2A       | —          |





Metric Threads

Caps



| Your Application |                 |             |               |                  |
|------------------|-----------------|-------------|---------------|------------------|
| Thread Size      | Numbered Series | DM Series   | A & AR Series | TC Metric Series |
| M4               | 004A            | DM0148-1/2A | A5/32W/RA     | —                |
| M5               | 005A            | DM0187-1/2A | —             | —                |
| M6               | 006A            | DM0224-1/2A | —             | —                |
| M8 x 1           | 009A            | DM0304-1/2A | A5/16W/RA     | 12100A           |
| M10 x 1          | 012A            | DM0375-1/2A | AR100A        | 12101A           |
| M12 x 1          | 014A            | DM0460-1/2A | A1/2BA        | 12102A           |
| M12 x 1.5        | 1015A           | DM0460-1/2A | A1/2BA        | 12103A           |
| M14 x 1.5        | 018A            | DM0531-1/2A | —             | 12104A           |
| M16 x 1.5        | 022A            | DM0600-1A   | A5/8W/RA      | 12105A           |
| M18 x 1.5        | 027A            | DM0687-1A   | A11/16W/RA    | 12106A           |
| M20 x 1.5        | 030A            | DM0750-1A   | AR125A        | 12107A           |
| M22 x 1.5        | 035A            | DM0843-1A   | AR130A        | 12108A           |
| M24 x 1.5        | 040A            | DM0937-1A   | A15/16A       | 12109A           |
| M25 x 1.5        | 041A            | —           | A63/64A       | 12110A           |
| M26 x 1.5        | 041A            | DM1000-1A   | A1W/RA        | 12111A           |
| M27              | 042A            | DM1062-1A   | A1-1/16W/RA   | —                |
| M28 x 1.5        | 044A            | DM1090-1A   | —             | 12967A           |
| M30 x 2          | 1050A           | DM1125-1A   | —             | 12122A           |
| M35              | 051A            | DM1375-1A   | A1-3/8A       | —                |
| M39              | 055A            | DM1500-1A   | A1-1/2A       | —                |
| M42 x 2          | 056A            | DM1625-1A   | A1-5/8A       | 12124A           |
| M45              | 058A            | DM1750-1A   | A1-3/4A       | —                |
| M48              | 064A            | DM1875-1A   | A1-7/8A       | —                |
| M52 x 2          | 1085A           | DM2125-1A   | —             | 12126A           |
| M58              | 075A            | DM2250-1A   | A2-1/4A       | —                |

Caps

Non-Threaded Studs



| To Cap OD |       |       | Numbered Series | A Series    | DM Series   |
|-----------|-------|-------|-----------------|-------------|-------------|
| in        | dec.  | mm    |                 |             |             |
| 1/8       | 0.125 | 3.17  | 002A            | A1/8W/RA    | DM0125-1/2A |
| 3/16      | 0.187 | 4.75  | 005A            | A3/16W/RA   | DM0187-1/2A |
| 1/4       | 0.250 | 6.35  | 007A            | A1/4W/RA    | DM0250-1/2A |
| 5/16      | 0.312 | 7.92  | 009A            | A5/16W/RA   | DM0313-1/2A |
| 3/8       | 0.375 | 9.53  | 011A            | A3/8W/RA    | DM0375-1/2A |
| 7/16      | 0.437 | 11.10 | 014A            | A7/16W/RA   | DM0437-1/2A |
| 1/2       | 0.500 | 12.70 | 1020A           | A1/2W/RA    | DM0500-1A   |
| 9/16      | 0.562 | 14.27 | 020A            | A9/16W/RA   | DM0562-1A   |
| 5/8       | 0.625 | 15.88 | 022A            | A5/8W/RA    | DM0625-1A   |
| 11/16     | 0.687 | 17.45 | 026A            | A11/16W/RA  | DM0687-1A   |
| 3/4       | 0.750 | 19.05 | 028A            | A3/4W/RA    | DM0750-1A   |
| 13/16     | 0.812 | 20.62 | 031A            | A13/16W/RA  | DM0812-1A   |
| 7/8       | 0.875 | 22.23 | 039A            | A7/8W/RA    | DM0875-1A   |
| 15/16     | 0.937 | 23.80 | 040A            | A15/16A     | DM0937-1A   |
| 1         | 1.000 | 25.40 | 041A            | A1W/RA      | DM1000-1A   |
| 1 - 1/16  | 1.062 | 26.97 | 042A            | A1-1/16W/RA | DM1062-1A   |
| 1 - 1/8   | 1.125 | 28.58 | 1040A           | A1-1/8A     | DM1125-1A   |
| 1 - 3/16  | 1.187 | 30.15 | 045A            | A1-3/16W/RA | DM1187-1A   |
| 1 - 1/4   | 1.250 | 31.75 | 048A            | A1-1/4A     | DM1250-1A   |
| 1 - 5/16  | 1.312 | 33.32 | 051A            | A1-5/16W/RA | DM1312-1A   |
| 1 - 3/8   | 1.375 | 34.93 | 052A            | A1-3/8A     | DM1375-1A   |
| 1 - 7/16  | 1.437 | 36.50 | 053A            | A1-7/16A    | DM1437-1A   |
| 1 - 1/2   | 1.500 | 38.10 | 055A            | A1-1/2A     | DM1500-1A   |
| 1 - 9/16  | 1.562 | 39.67 | 055A            | A1-9/16A    | —           |
| 1 - 5/8   | 1.625 | 41.28 | 056A            | A1-5/8A     | DM1625-1A   |
| 1 - 11/16 | 1.687 | 42.85 | 057A            | A1-11/16A   | DM1687-1A   |
| 1 - 3/4   | 1.750 | 44.45 | 059A            | A1-3/4A     | DM1750-1A   |
| 1 - 13/16 | 1.812 | 46.02 | 060A            | —           | DM1812-1A   |
| 1 - 7/8   | 1.875 | 47.63 | 062A            | A1-7/8A     | DM1875-1A   |
| 1 - 15/16 | 1.937 | 49.20 | 063A            | —           | DM1937-1A   |
| 2         | 2.000 | 50.80 | 065A            | A2A         | DM2000-1A   |

Plugs



| Your Application |                 |           |           |             |           |
|------------------|-----------------|-----------|-----------|-------------|-----------|
| Thread Size      | Numbered Series | BP Series | TP Metric | TSSP Series | SF Series |
| M6               | 002A            | BP1012A   | —         | —           | —         |
| M8 x 1           | 005A            | BP1018A   | 12011A    | 462836A     | —         |
| M10 x 1          | 007A            | BP1026A   | 12012A    | 462837A     | 10530A    |
| M12 x 1          | 010A            | BP1038A   | 12013A    | —           | 12363A    |
| M12 x 1.5        | 009A            | BP1034A   | 12017A    | 462838A     | 12363A    |
| M14 x 1.5        | 012A            | BP1044A   | 12018A    | 462839A     | 12363A    |
| M16 x 1.5        | 015A            | BP1056A   | 12019A    | 462840A     | 12364A    |
| M18 x 1.5        | 018A            | BP1060A   | 10458A    | 462841A     | 10314B    |
| M20 x 1.5        | 022A            | BP1068A   | 12020A    | 462842A     | 12365A    |
| M22 x 1.5        | 026A            | BP1074A   | 10128A    | 462843A     | 12366A    |
| M24 x 1.5        | 028A            | BP1086A   | 12021A    | —           | 12621A    |
| M26 x 1.5        | 030A            | BP1092A   | 12023A    | —           | 12367A    |
| M27              | 035A            | BP1100A   | —         | —           | —         |
| M28              | 040A            | BP1102A   | —         | —           | 12368A    |
| M30              | 041A            | BP1106A   | —         | —           | —         |
| M32              | 044A            | BP1112A   | —         | —           | 12369A    |
| M33              | 044A            | BP1114A   | —         | —           | —         |
| M36 x 2          | 045A            | BP1116A   | —         | —           | 12622A    |
| M38              | 048A            | BP1126A   | —         | —           | —         |
| M42 x 2          | 053A            | BP1134A   | —         | —           | 12598A    |
| M52 x 2          | 1080A           | BP1142A   | —         | —           | —         |

Plugs

Non-Threaded Holes



| To Plug ID |       |       | Numbered Series | FT Series | CP Series |
|------------|-------|-------|-----------------|-----------|-----------|
| in         | dec.  | mm    |                 |           |           |
| 1/8        | 0.125 | 3.17  | 001A            | 10874A    | —         |
| 3/16       | 0.187 | 4.75  | 1000A           | 12665A    | —         |
| 1/4        | 0.250 | 6.35  | 003A            | 12667A    | CP4A      |
| 5/16       | 0.312 | 7.92  | 006A            | 12668A    | CP6A      |
| 3/8        | 0.375 | 9.53  | 008A            | 12670A    | CP8A      |
| 7/16       | 0.437 | 11.10 | 010A            | 12671A    | CP10A     |
| 1/2        | 0.500 | 12.70 | 012A            | 12673A    | CP12A     |
| 9/16       | 0.562 | 14.27 | 014A            | 12675A    | CP14A     |
| 5/8        | 0.625 | 15.88 | 017A            | 12677A    | CP16A     |
| 11/16      | 0.687 | 17.45 | 020A            | 12679A    | CP19A     |
| 3/4        | 0.750 | 19.05 | 023A            | 12680A    | CP23A     |
| 13/16      | 0.812 | 20.62 | 026A            | 12683A    | CP24A     |
| 7/8        | 0.875 | 22.23 | 028A            | 12684A    | CP29A     |
| 15/16      | 0.937 | 23.80 | 030A            | 12686A    | CP31A     |
| 1          | 1.000 | 25.40 | 035A            | 12688A    | CP35A     |
| 1 - 1/16   | 1.062 | 26.97 | 040A            | 12689A    | CP37A     |
| 1 - 1/8    | 1.125 | 28.58 | 041A            | 12691A    | CP40A     |
| 1 - 3/16   | 1.187 | 30.15 | 042A            | 12692A    | CP42A     |
| 1 - 1/4    | 1.250 | 31.75 | 044A            | —         | CP44A     |
| 1 - 5/16   | 1.312 | 33.32 | 045A            | —         | CP46A     |
| 1 - 3/8    | 1.375 | 34.93 | 1055A           | —         | CP49A     |
| 1 - 7/16   | 1.437 | 36.50 | 048A            | —         | CP49A     |
| 1 - 1/2    | 1.500 | 38.10 | 051A            | —         | CP51A     |
| 1 - 9/16   | 1.562 | 39.67 | 052A            | 12693A    | CP55A     |
| 1 - 5/8    | 1.625 | 41.28 | 055A            | —         | CP56A     |
| 1 - 11/16  | 1.687 | 42.85 | 056A            | —         | CP56A     |
| 1 - 3/4    | 1.750 | 44.45 | 1065A           | —         | CP59A     |
| 1 - 13/16  | 1.812 | 46.02 | 057A            | 12694A    | CP59A     |
| 1 - 7/8    | 1.875 | 47.63 | 1070A           | —         | CP57A     |
| 1 - 15/16  | 1.937 | 49.20 | 1075A           | —         | CP57A     |
| 2          | 2.000 | 50.80 | 1080A           | —         | —         |