

# Petersen

Products Company

## *Engineered Solutions*

INNOVATION • QUALITY • SOLUTIONS • RESULTS



[www.PetersenProducts.com](http://www.PetersenProducts.com)

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*Smallest deflated size to install through tiny openings*  
*Higher pressure and more robust than typical "Gas Plugs"*  
 May not provide a perfect seal for pipeline testing without customization



Pipe Diameter				Maximum Inflation		**Pipeline Max. Head		Inflation Port*		Tap Hole Size		Length to Neck		Neck Length		Shpg Wt lbs	Item Number
Maximum in	Minimum mm	in	mm	psig	bar	ft	m	in npt	Location	in	mm	in	mm	in	mm		
2	51	1	25.4	30	2.1	35	11	0	On One Side	1	25.4	3.5	89	1	25	2	113-002
3	76	1	25.4	30	2.1	35	11	Tire valve	On One Side	1	25.4	4.5	114	2	51	2	113-003
4	102	1.25	31.8	30	2.1	35	11	Tire valve	On One Side	1.25	5	6	152	2	51	2	113-004
5	152	1.65	41.9	30	2.1	35	11	Tire valve	On One Side	1.65	41.9	8.25	222	2	51	2	113-006
8	203	2	50.8	30	2.1	35	11	Tire valve	On One Side	2	50.8	9	229	3	76	3	113-008
10	254	2	50.8	30	2.1	35	11	Tire valve	On One Side	2	50.8	12	305	3	76	3	113-010
12	305	2.5	63.5	25	1.7	29	9	Tire valve	On One Side	2.5	63.5	15	381	3	76	3	113-012
15	381	2.5	63.5	25	1.7	29	9	1M-1/4QC	On One Side	2.5	63.5	19.5	495	3	76	5	113-015
16	406	3	76.2	25	1.7	29	9	1M-1/4QC	On One Side	3	76.2	21	533	3	76	6	113-016
18	457	3	76.2	22	1.5	25	8	1M-1/4QC	On One Side	3	76.2	24	610	3	76	7	113-018
20	508	4	102	20	1.4	23	7	2M-1/2QC	On One Side	4	101.6	27	686	3	76	7	113-020
24	610	4	102	10	0.7	11	4	2M-1/2QC	On One Side	4	101.6	33	838	3	76	10	113-024
30	762	5	127	9	0.6	10	3.1	2M-1/2QC	On One Side	5	127	42	1067	3	76	12	113-030
33	838	5	127	9	0.6	10	3.1	2M-1/2QC	On One Side	5	127	46.5	1181	3	76	14	113-033
34	864	5	127	9	0.6	10	3.1	2M-1/2QC	On One Side	5	127	48	1219	33	76	15	113-034
36	914	5	127	9	0.6	10	3.1	2M-1/2QC	On One Side	5	127	51	1295	3	76	20	113-036
42	1067	6	152	9	0.4	10	3.1	2M-1/2QC	On One Side	6	152.4	60	1524	3	76	25	113-042
48	1219	6	152	6.5	0.5	7.5	2.3	2M-1/2QC	On One Side	6	152.4	69	1753	3	76	28	113-048
54	1372	6	152	5	0.3	6	3.5	2M-1/2QC	On One Side	6	152.4	78	1981	3	76	30	113-054
60	1524	7	178	4.5	0.3	5.2	1.6	2M-1/2QC	On One Side	7	177.8	87	2210	3	76	30	113-060
66	1676	7	178	3	0.2	3.5	1.1	2M-1/2QC	On One Side	7	177.8	96	2438	3	76	35	113-066
72	1829	7	178	2	0.1	2.3	0.7	2M-1/2QC	On One Side	7	177.8	105	2667	3	76	35	113-072
84	2134	8	203	1	0.1	1.2	0.35	2M-1/2QC	On One Side	8	203.2	123	3124	3	76	40	113-084
90	2286	8	229	1	0.1	1.2	0.35	2M-1/2QC	On One Side	9	228.6	132	3353	3	76	50	113-090

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Compact Diameter. Inflates Up To 8 Times For Easy Insertion

Most sizes afford easy placement by one man. Flexibility allows MULTI-FLEX® plugs to navigate through small hot tap or branch pipe into large pipeline; then inflate with air or water.



Typically used for plugging of pipelines especially when there is a small-restricted access. This is the most flexible plug on the market; it has the greatest multi-size range and will conform to almost any pipe configuration. A 36" plug will also stopper a 10" pipeline! When completely deflated, a 72" plug will deflate down to only 15"! The very small-deflated diameter and flexibility allows insertion and removal through a manhole for plugging otherwise inaccessible pipelines. It is also used as a semi-permanent valve to isolate hazardous waste spills and regulate flow.

**High Strength Flexible Materials** Plugs are generally made with Nylon reinforced Nitrile outer ply and have connections for water or air inflation. Many other materials available.

**Multi-Size Applications** PETERSEN® MULTI-FLEX® plugs may be used in any pipeline larger than the deflated diameter. Some seepage in smaller size pipelines may require a specific size vapor sleeve especially when pressure testing.

**Most Sizes Available** Standard sizes are generally in stock up to a 48" diameter with larger sizes available in just a few days.

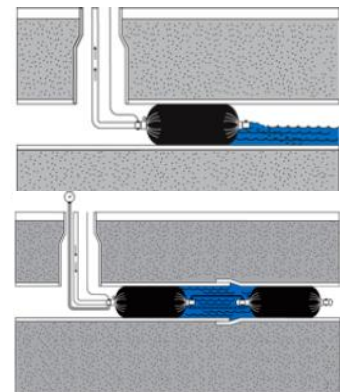
**Light Weight** Allows one person insertion for most sizes and applications.

**Higher Head Pressure** All inflation pressure is applied to the inside wall of the pipe through the MULTI-FLEX® plug. Molded rubber plugs require much of the inflation pressure just to expand the plug.

**Flexibility** Deflated MULTI-FLEX® plug easily navigates bends and small openings. A 72" MULTI-FLEX® plug may be inserted through a 15" opening!

**Custom Configurations** Custom Flexible and Rigid Plugs may be manufactured for any shape, high temperature, and severe chemical applications. Please contact a Petersen engineer to discuss your requirements.

Pipe Diameter				Maximum Inflation		**Pipeline Max. Head		Inflation Port*	Deflated Length		Shpg Wt	Item Number
Maximum	Minimum			psig	bar	ft	m	in npt	in	mm	lbs	
in	mm	in	mm									
2	50	1.75	45	80	5.5	92	28	1/2 M - 1/4 QC	12.5	317	4	124-002
3	76	2	51	80	5.5	92	28	3/4 M - 1/4 QC	14	356	5	124-003
4	102	2.5	64	80	5.5	92	28	3/4 M - 1/4 QC	17	431	7	124-004
6	152	3	77	80	5.5	92	28	1 M - 1/4 QC	22	558	8	124-006
8	203	4.5	115	70	4.8	80	24.6	2 M - 1/4 QC	25	635	12	124-008
10	254	5	127	70	4.8	80	24.6	2 M - 1/4 QC	37	939	18	124-010
12	305	5.5	140	70	4.8	80	24.6	2 M - 1/4 QC	42	1066	21	124-012
15	381	6	153	42	2.9	48	14.6	2 M - 1/2 QC	51	1295	24	124-015
16	406	6	153	37	2.5	42	13	2 M - 1/2 QC	54	1371	24	124-016
18	457	6.5	166	37	2.5	42	13	2 M - 1/2 QC	59	1498	25	124-018
20	508	7	178	32	2.2	37	11.2	2 M - 1/2 QC	65	1651	30	124-020
24	610	7	178	30	2	34	10.5	3 M - 1/2 QC	77	1955	47	124-024
30	762	8	204	25	1.7	28	8.8	3 M - 1/2 QC	95	2413	72	124-030
33	838	9	229	25	1.7	28	8.8	3 M - 1/2 QC	105	2667	79	124-033
36	914	9.5	242	20	1.4	23	7	3 M - 1/2 QC	117	2971	85	124-036
42	1067	9.5	242	18	1.2	20	6.3	3 M - 1/2 QC	133	3378	136	124-042
48	1219	10	254	15	1	17	5.2	3 M - 1/2 QC	149	3784	171	124-048
54	1372	12	305	11	0.7	12	3.8	3 M - 1/2 QC	179	4546	190	124-054
60	1524	13	331	8	0.5	9	2.8	3 M - 1/2 QC	191	4851	208	124-060
66	1676	13	331	7.5	0.5	8	2.6	3 M - 1/2 QC	208	5283	213	124-066
72	1829	15	381	7	0.4	8	2.4	3 M - 1/2 QC	225	5715	217	124-072



Custom configurations also available

\*QC Quick connection

Inflation controllers, gauges, hoses, etc. on our accessories page

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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*Hot Tap Insertion, Flange Inflation, Higher Pressure*

Other sizes and custom configurations also available

These plugs are generally made with a Nylon reinforced Polyurethane outer ply. Many other materials available.



Centered on End



Centered on Diameter



Dia. Max	Dia. Deflated	Max Infl.	Pipeline Max Head	Port, Inflation	Inflation Port Location	Length Deflated	Shipping Wt.	Item Number
2" (50.8mm)	1.75" (44.45mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/4" MNPT WITH 1" RAM ADAPTER	Centered on Diameter	6" (152.4mm)	3 Lb (1.36 Kg)	129-002
2" (50.8mm)	1.875" (47.63mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/2" QC Plug	End, Centered	6" (152.4 mm)	3 Lb (1.36 Kg)	129-002-F
2" (50.8mm)	1.875" (47.63mm)	200 psi (13.8 bar)	230 ft (70.1 m)	1/4" MNPT	Centered on Diameter	6" (152.4mm)	4 Lb (1.81 Kg)	129-002-HP
3" (76.2mm)	2.875" (73.02mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/4" MNPT WITH 1" RAM ADAPTER	Centered on Diameter	9" (228.6mm)	3 Lb (1.36 Kg)	129-003
3" (76.2mm)	2.5" (63.5mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/2" QC Plug	End, Centered	9" (228.6mm)	2 Lb (0.91 Kg)	129-003-F
3" (76.2mm)	2.875" (73.02mm)	200 psi (13.79 bar)	230 ft (70.1 m)	1/4" MNPT	Centered on Diameter	9" (228.6mm)	4 Lb (1.81 Kg)	129-003-HP
4" (101.6mm)	3.75" (95.25mm)	160 psi (11.03 bar)	184 ft (56 m)	1" Inflation Ram Adapter	Centered on Diameter	11" (279.4mm)	4 Lb (1.81 Kg)	129-004
4" (101.6mm)	3" (76.2mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/2" QC Plug	End Centered	13" (330.2mm)	4 Lb (1.81 Kg)	129-004-F
4" (101.6mm)	3.875" (98.43mm)	200 psi (13.79 bar)	230 ft (70.1 m)	1" Inflation Ram Adapter	Centered on Diameter	11" (279.4mm)	5.6 Lb (2.54 Kg)	129-004-HP
6" (152.4mm)	3.75" (95.25mm)	160 psi (11.03 bar)	184 ft (56 m)	1" Inflation Ram Adapter	Centered on Diameter	14" (355.6mm)	5 Lb (2.27 Kg)	129-006
6" (152.4mm)	3.875" (98.43mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/2" QC Plug	End, Centered	15" (381mm)	5 Lb (2.27 Kg)	129-006-F
6" (152.4mm)	3.875" (98.43mm)	230 psi (15.86 bar)	265 ft (80.77 m)	1" Inflation Ram Adapter	Centered on Diameter	14" (355.6mm)	7 Lb (3.18 Kg)	129-006-HP

\*Unless otherwise noted, pipe diameter assumes Schedule 40 steel pipe up through 10" and Standard Schedule with a .375" wall over 10" nominal size.

Please specify inflation flange location: centered on diameter or centered on end.

*Continued*

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## Inflatable Line Stop™ Pipe Plugs, High Pressure MULTI-FLEX®, Pipe Sizes: 2" and Larger, 129 Series Continued

8" (203.2mm)	5.75" (146.05mm)	160 psi (11.03 bar)	184 ft (56 m)	1" Inflation Ram Adapter	Centered on Diameter	17" (431.8mm)	9 Lb (4.08 Kg)	129-008
8" (203.2mm)	5" (127mm)	160 psi (11.03 bar)	184 ft (56.08 m)	1/2" QC Plug	End, Centered	20" (508mm)	8 Lb (3.63 Kg)	129-008-F
8" (203.2mm)	5.875" (149.23mm)	240 psi (16.55 bar)	276 ft (84.1 m)	1.5" Inflation Ram Adapter	Centered on Diameter	17" (431.8mm)	12.6 Lb (5.72 Kg)	129-008-HP
10" (254mm)	5.75" (146.05mm)	120 psi (8.28 bar)	138 ft (42.06 m)	1" Inflation Ram Adapter	Centered on Diameter	20" (508mm)	11 Lb (4.99 Kg)	129-010
10" (254mm)	7" (177.8mm)	120 psi (8.27 bar)	138 ft (42.06 m)	Infl. 1/2" QC Plug PSI Monitor 1/4" QC Cplg	End, Centered	25" (635mm)	11 Lb (4.99 Kg)	129-010-F
10" (254mm)	7.75" (196.85mm)	240 psi (16.55 bar)	276 ft (84.1 m)	1.5" Inflation Ram Adapter	Centered on Diameter	20" (508mm)	15 Lb (6.80 Kg)	129-010-HP
12" (304.8mm)	7.75" (196.85mm)	120 psi (8.28 bar)	138 ft (42 m)	1" X 150 Lb ANSI	Centered on Diameter	23" (584.2mm)	26 Lb (11.79 Kg)	129-012
12" (304.8mm)	11.1" (281.91mm)	120 psi (8.27 bar)	138 ft (42.06 m)	2" X 300 lb		80" (2032mm)	140 Lb (63.5 Kg)	129-012-BB
12" (304.80mm)	7.75" (196.85mm)	120 psi (8.27 bar)	138 ft (42.06 m)	Infl. 1/2" QC Plug PSI Monitor 1/4" QC Cplg	End, Centered	30" (762.00mm)	20 Lb (9.07 Kg)	129-012-F
12" (304.8mm)	9.75" (248mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	23" (584.2mm)	36 Lb (16.33 Kg)	129-012-HP
13.25" (336.55mm)	7.75" (196.85mm)	100 psi (6.90 bar)	115 ft (35 m)	1" X 150 Lb ANSI	Centered on Diameter	26" (660.4mm)	26 Lb (11.79 Kg)	129-014
13.25" (336.55mm)	9.75" (247.65mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	26" (660.4mm)	36.5 Lb (16.56 Kg)	129-014-HP
15.25" (387.35mm)	9.75" (247.65mm)	100 psi (6.90 bar)	115 ft (35 m)	1-1/4" X 300 Lb ANSI	Centered on Diameter	29" (736.6mm)	28 Lb (12.70 Kg)	129-016
16" (406.4mm)	11.1" (281.94mm)	100 psi (6.89 bar)	115 ft (35.05 m)	2" X 300 lb		80" (2032mm)	148 Lb (67.13 Kg)	129-016-BB
16" (406.4mm)	9" (228.6mm)	100 psi (6.89 bar)	115 ft (35.05 m)	Infl. 1/2" QC Plug PSI Monitor 1/4" QC Cplg	End, Centered	40" (1016mm)	28 Lb (12.70 Kg)	129-016-F
15.25" (387.35mm)	11.75" (298.45mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	29" (736.6mm)	39 Lb (17.69 Kg)	129-016-HP
17.25" (438.15mm)	9.75" (247.65mm)	100 psi (6.90 bar)	115 ft (35 m)	1-1/4" X 300 Lb ANSI	Centered on Diameter	32" (812.8mm)	33 Lb (14.97 Kg)	129-018
18" (457.2mm)	11.1" (281.94mm)	100 psi (6.89 bar)	115 ft (35.05 m)	2" X 300 lb		88" (2235.2mm)	153 Lb (69.4 Kg)	129-018-BB
17.25" (438.2mm)	9" (228.6mm)	100 psi (6.89 bar)	115 ft (35.05 m)	Infl. 1/2" QC Plug PSI Monitor 1/4" QC Cplg	End, Centered	45" (1143mm)	33 Lb (14.97 Kg)	129-018-F
17.25" (438.15mm)	11.75" (298.45mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	32" (812.8mm)	46 Lb (20.87 Kg)	129-018-HP
19.25" (488.95mm)	9.75" (247.65mm)	100 psi (6.90 bar)	115 ft (35 m)	1-1/4" X 300 Lb ANSI	Centered on Diameter	35" (889mm)	35 Lb (15.88 Kg)	129-020
20" (508mm)	11.1" (281.94mm)	80 psi (5.51 bar)	92 ft (28.04 m)	2" X 300 lb		96" (2438.4mm)	155 Lb (70.31 Kg)	129-020-BB
20" (508mm)	9" (228.6mm)	100 psi (6.89 bar)	115 ft (35.05 m)	Infl. 1/2" QC Plug PSI Monitor 1/4" QC Cplg	End, Centered	50" (1270mm)	35 Lb (15.88 Kg)	129-020-F
19.25" (488.95mm)	11.75" (298mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	35" (889mm)	35 Lb (15.88 Kg)	129-020-HP
24" (610mm)	11.75" (298mm)	100 psi (6.90 bar)	115 ft (35 m)	2" X 300 Lb ANSI	Centered on Diameter	42" (1066.8mm)	44 Lb (19.96 Kg)	129-024

Continued

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Inflatable Line Stop™ Pipe Plugs, High Pressure MULTI-FLEX®, Pipe Sizes: 2" and Larger, 129 Series Continued

24" (609.6mm)	11.75" (298.45mm)	80 psi (5.51 bar)	92 ft (28.04 m)	2" X 300 lb		112" (2844.8mm)	157 Lb (71.21 Kg)	129-024-BB
24" (609.6mm)	14" (355.6mm)	100 psi (6.89 bar)	115 ft (35.05 m)	1/2" QC Plug & 1/4" QC Cplg	End, Centered	60" (1524mm)	37 Lb (16.78 Kb)	129-024-F
23.5" (584-597mm)	13" (330.2mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	42" (1066.8mm)	61.5 Lb (27.90 Kg)	129-024-HP
27-28" (686-711mm)	11.75" (298.45mm)	100 psi (6.90 bar)	115 ft (35 m)	2" X 300 Lb ANSI	Centered on Diameter	49" (1244.6mm)	60 Lb (27.22 Kg)	129-028
28" (711.2mm)	14" (355.6mm)	100 psi (6.89 bar)	115 ft (35.05 m)	1/2" QC Plug & 1/4" QC Cplg	End, Centered	70" (1778mm)	50 Lb (22.68 Kg)	129-028-F
27-27.5" (686-699mm)	15" (381mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	49" (1244.6mm)	90 Lb (40.8 Kg)	129-028-HP
29-30" (737-762mm)	11.75" (298.45mm)	100 psi (6.90 bar)	115 ft (35 m)	2" X 300 Lb ANSI	Centered on Diameter	52" (1320.8mm)	61 Lb (27.67 Kg)	129-030
30" (762mm)	14" (355.6mm)	90 psi (6.20 bar)	104 ft (31.68 m)	1/2" QC Plug & 1/4" QC Cplg	End, Centered	75" (1905mm)	53 Lb (24.04 Kg)	129-030-F
29.5" (750mm)	15" (381mm)	200 psi (13.79 bar)	230 ft (70.1 m)	2" X 300 Lb ANSI	Centered on Diameter	52" (1320.8mm)	85.5 Lb (38.78 Kg)	129-030-HP
31-32" (787-813mm)	11.75" (298.45mm)	80 psi (5.51 bar)	92 ft (28.04 m)	2" X 300 Lb ANSI	Centered on Diameter	55" (1397mm)	62 Lb (28.12 Kg)	129-032
31-32" (787.4-812.8mm)	17" (431.8mm)	150 psi (10.34 bar)	173 ft (52.7 m)	2" X 300 Lb ANSI	Centered on Diameter	55" (1397mm)	100 Lb (45.4 Kg)	129-032-HP
35-36" (889-914.4mm)	11.75" (298.45mm)	80 psi (5.52 bar)	92 ft (28 m)	2" X 300 Lb ANSI	Centered on Diameter	61" (1549.4mm)	74 Lb (33.57 Kg)	129-036
36" (914.4mm)	14" (355.6mm)	60 PSI (4.1 Bar)	69 ft (21.12 m)	1/2" QC Plug & 1/4" QC Cplg	End, Centered	90" (2286mm)	70 Lb (31.75 Kg)	129-036-F
36" (914.4mm)	17" (431.8mm)	150 psi (10.34 bar)	173 ft (52.7 m)	4" X 300 Lb ANSI	Centered on Diameter	61" (1549.4mm)	103.5 Lb (46.95 Kg)	129-036-HP
39-40" (990.6-1016mm)	15" (381mm)	40 psi (2.76 bar)	46 ft (14 m)	4" X 300 Lb ANSI	Centered on Diameter	66" (1676.4mm)	83 Lb (37.65 Kg)	129-040
41-42.25" (1041.4-1073.1mm)	15" (381mm)	40 psi (2.76 bar)	46 ft (14 m)	4" X 300 Lb ANSI	Centered on Diameter	71" (1803.4mm)	83 Lb (37.65 Kg)	129-042
42" (1066.8mm)	15" (381mm)	40 psi (2.75 bar)	46 ft (14.02 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	105" (2667mm)	83 Lb (37.65 Kg)	129-042-F
42.25" (1073.1mm)	17" (431.8mm)	150 psi (10.34 bar)	173 ft (52.7 m)	4" X 300 Lb ANSI	Centered on Diameter	71" (1803.4mm)	120 Lb (54.5 Kg)	129-042-HP
47-48.25" (1193.8-1225.5mm)	15" (381mm)	30 psi (2.07 bar)	35 ft (10.5 m)	4" X 300 Lb ANSI	Centered on Diameter	81" (2057.4mm)	109 Lb (49.44 Kg)	129-048
48" (1219.2mm)	15" (381mm)	30 psi (2.06 bar)	35 ft (10.66 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	120" (3048mm)	109 Lb (49.44 Kg)	129-048-F
48.25" (1225.5mm)	17" (431.8mm)	150 psi (10.34 bar)	173 ft (52.7 m)	4" X 300 Lb ANSI	Centered on Diameter	81" (2057.4mm)	152.5 Lb (69.20 Kg)	129-048-HP
53-54.25" (1346.2-1377.9mm)	15" (381mm)	30 psi (2.07 bar)	35 ft (10.5 m)	4" X 300 Lb ANSI	Centered on Diameter	90" (2286mm)	144 Lb (65.32 Kg)	129-054
54" (1371.6mm)	15" (381mm)	25 psi (1.72 bar)	29 ft (8.8 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	135" (3429mm)	144 Lb (65.32 Kg)	129-054-F
53-54.25" (1346.2-1377.9mm)	23" (584.2mm)	150 psi (10.34 bar)	173 ft (52.7 m)	4" X 300 Lb ANSI	Centered on Diameter	90" (2286.0mm)	201.5 Lb (91.40 Kg)	129-054-HP

Continued

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## Inflatable Line Stop™ Pipe Plugs, High Pressure MULTI-FLEX®, Pipe Sizes: 2" and Larger, 129 Series Continued

58.75-60.25" (1492.2-1530.3mm)	17" (431.8mm)	20 psi (1.38 bar)	23 ft (7 m)	4" X 300 Lb ANSI	Centered on Diameter	100" (2540mm)	148 Lb (67.13 Kg)	129-060
60" (1524mm)	15" (381mm)	20 psi (1.37 bar)	23 ft (7.01 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	150" (3810mm)	148 Lb (67.13 Kg)	129-060-F
60.25" 1530.3mm)	23" (584.2mm)	140 psi (9.65 bar)	161 ft (49 m)	4" X 300 Lb ANSI	Centered on Diameter	100" (2540mm)	207 Lb (93.89 Kg)	129-060-HP
64.75-66.25" (1644.6-1682.7mm)	17" (431.8mm)	20 psi (1.38 bar)	23 ft (7 m)	4" X 300 Lb ANSI	Centered on Diameter	109" (2768.6mm)	165 Lb (74.84 Kg)	129-066
66" (1676.4mm)	22" (558.8mm)	20 psi (1.37 bar)	23 ft (7.01 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	165" (4191mm)	165 Lb (74.84 Kg)	129-066-F
64.75-66.25" (1644.6-1682.7mm)	29" (736.6mm)	120 psi (8.27 bar)	138 ft (42.1 m)	4" X 300 Lb ANSI	Centered on Diameter	109" (2768.6mm)	231 Lb (104.78 Kg)	129-066-HP
70.5-72.5" (1790.7-1841.5mm)	19" (482.6mm)	20 psi (1.38 bar)	23 ft (7 m)	4" X 300 Lb ANSI	Centered on Diameter	118" (2997.2mm)	180 Lb (81.65 Kg)	129-072
72" (1828.8mm)	19" (482.6mm)	20 psi (1.37 bar)	23 ft (7.01 m)	6" X 300 lb		304" (7721.6mm)	300 Lb (136.058 Kg)	129-072-BB
72" (1828.8mm)	22" (558.8mm)	20 psi (1.37 bar)	23 ft (7.01 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	180" (4572mm)	180 Lb (81.65 Kg)	129-072-F
72.5" (1841.5mm)	29" (736.6mm)	120 psi (8.27 bar)	138 ft (42.1 m)	6" X 300 Lb ANSI	Centered on Diameter	118" (2997.2mm)	252 Lb (114.31 Kg)	129-072-HP
82-84.5" (2082.8-2146.3mm)	19" (482.6mm)	15 psi (1.03 bar)	17 ft (5.2 m)	4" X 300 Lb ANSI	Centered on Diameter	137" (3479.8mm)	210 Lb (95.26 Kg)	129-084
84" (2133.6mm)	23" (584.2mm)	15 psi (1.03 bar)	17 ft (5.18 m)	6" X 300 lb		352" (8940.8mm)	330 Lb (149.69 Kg)	129-084-BB
84" (2133.6mm)	22" (558.8mm)	15 psi (1.03 bar)	17 ft (5.18 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	210" (5334mm)	210 Lb (95.26 Kg)	129-084-F
84.5" (2146.3mm)	35" (889mm)	110 psi (7.58 bar)	127 ft (38.7 m)	6" X 300 Lb ANSI	Centered on Diameter	137" (3479.8mm)	294 Lb (133.36 Kg)	129-084-HP
94-96.5" (2387.6-2451.1mm)	19" (482.6mm)	15 psi (1.03 bar)	17 ft (5.2 m)	4" X 300 Lb ANSI	Centered on Diameter	156" (3962.4mm)	240 Lb (108.86 Kg)	129-096
96" (2438.4mm)	29" (736.6mm)	15 psi (1.03 bar)	17 ft (5.18 m)	6" X 300 lb		400" (10160mm)	360 Lb (163.29 Kg)	129-096-BB
96" (2438.4mm)	22" (558.8mm)	15 psi (1.03 bar)	17 ft (5.18 m)	1-1/2" Cam Groove & 3/4" NPT to 1/4" QC	End, Centered	240" (6096mm)	240 Lb (108.86 Kg)	129-096-F
94-96.5" (2387.6-2451.1mm)	41" (1041.4mm)	110 psi (7.58 bar)	127 ft (38.7 m)	6" X 300 Lb ANSI	Centered on Diameter	156" (3962.4mm)	336 Lb (152.41 Kg)	129-096-HP
84" (2133.6mm)	23" (584.2mm)	15 psi (1.03 bar)	17 ft (5.18 m)	6" X 300 lb		352" (8940.8mm)	330 Lb (149.69 Kg)	129-084-BB

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## Compact Diameter. Inflates Up To 8 Times For Easy Insertion

Most sizes afford easy placement by one man. Flexibility allows MULTI-FLEX® plugs to navigate through small hot tap or branch pipe into large pipeline; then inflate with air or water.



*Typically used for plugging of pipelines especially when there is small-restricted access. This is the most flexible plug on the market; it has the greatest multi-size range and will conform to almost any pipe configuration. The very small-deflated diameter and flexibility allows insertion and removal through a manhole or a live hot tap for plugging otherwise inaccessible pipelines. The by-pass allows flow through by pumping or gravity.*

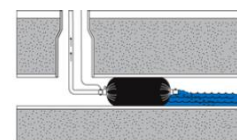
- High Strength Flexible Materials** Plugs are generally made with Nylon reinforced Nitrile outer ply and have connections for water or air inflation. Many other materials available.
- By-Pass** The by-pass design allows flow through during repairs. Flow-thru diameters available up to 3" on standard MULTI-FLEX® plugs and larger sizes on custom configurations.
- Multi-Size Applications** PETERSEN® MULTI-FLEX® plugs may be used in any pipeline larger than the deflated diameter. Some seepage in smaller size pipelines may require a specific size vapor sleeve especially when pressure testing.
- Most Sizes Available** Almost any size and configuration is available.
- Light Weight** PETERSEN® MULTI-FLEX® By-Pass plugs are much lighter than molded rubber plugs for easy placement.
- Diver Friendly** Small deflated size allows removal of air for easier insertion under water.
- Higher Head Pressure** All inflation pressure is applied to the inside wall of the pipe through the MULTI-FLEX® plug. Molded rubber plugs require much of the inflation pressure just to expand the plug.
- Flexibility** Deflated MULTI-FLEX® plug easily navigates bends and small openings. A 72" MULTI-FLEX® plug may be inserted through a 15" manhole!
- Vapor Seal** Specific size vapor seals are available to allow multi-size line testing with one MULTI-FLEX® plug.
- Custom Configurations** Custom Flexible and Rigid Plugs may be manufactured for any shape, high temperature, and severe chemical applications. Please contact a Petersen engineer to discuss your requirements.

**May not provide a perfect seal for pipeline testing without customization**

Pipe Diameter		By-Pass Connection	Maximum Inflation		**Pipeline Max. Head		Inflation Port*		Deflated Length		Shpg		
Maximum in	Minimum mm		in	mm	psig	bar	ft	m	in	mm	lbs	Item Number	
4	102	3.5	89	1 M	25	1.7	28	8.8	1/4 F - 1/4 QC	17	432	11	125-004
6	152	4.5	115	1.5 M	25	1.7	28	8.8	1/4 F - 1/4 QC	24	610	15	125-006
8	203	5	127	2 M	25	1.7	28	8.8	3/8 F - 1/4 QC	27	686	23	125-008
10	254	5	127	2 M	25	1.7	28	8.8	3/8 F - 1/4 QC	39	991	26	125-010
12	305	5.5	140	3 M	25	1.7	28	8.8	3/8 F - 1/4 QC	44	1118	38	125-012
15	381	5.75	147	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	53	1347	51	125-015
16	406	5.75	147	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	56	1423	55	125-016
18	457	6	152	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	61	1550	64	125-018
20	508	6.5	166	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	67	1702	70	125-020
24	610	8	203	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	79	2007	76	125-024
30	762	8.5	216	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	97	2464	83	125-030
33	838	9	229	3 M	25	1.7	28	8.8	3/8 F - 1/2 QC	107	2718	89	125-033
36	914	10	254	3 M	20	1.4	23	7	3/8 F - 1/2 QC	119	3023	156	125-036
42	1067	11	280	3 M	18	1.2	20	6.3	3/8 F - 1/2 QC	135	3429	173	125-042
48	1219	12	305	3 M	15	1	17	5.2	3/8 F - 1/2 QC	151	3836	191	125-048
54	1372	13	331	3 M	11	0.7	12	3.8	3/8 F - 1/2 QC	181	4598	224	125-054
60	1524	14	356	3 M	8	0.5	9	2.8	3/8 F - 1/2 QC	193	4903	237	125-060
66	1676	14	356	3 M	7.5	0.5	8	2.6	3/8 F - 1/2 QC	210	5334	259	125-066
72	1829	15	381	3 M	7	0.4	8	2.4	3/8 F - 1/2 QC	227	5766	282	125-072

Custom configurations also available

\*QC Quick connection  
Inflation controllers, gauges, hoses, etc. on our accessories page



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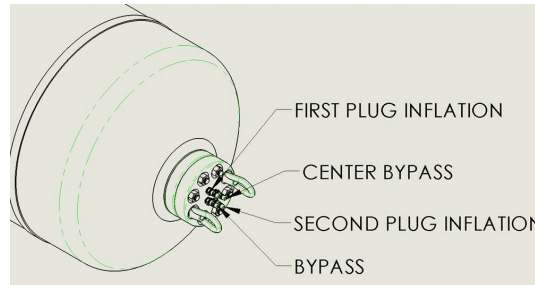
www.PetersenProducts.com

## Inflatable Line Stop™ Block And Bleed Plugs, High Pressure, Pipe Sizes: 12" and Larger, 129BB Series

### Positive Isolation of Toxic or Flammable Product

Other sizes and custom configurations also available

PETERSEN® MULTI-FLEX® Isolation Double Block & Bleed Inflatable Line Stop™ Plug is a revolutionary Dual Seal plug to allow a positive isolation of toxic or flammable product. The vent between the two seals allows the operator to monitor the seal integrity, vent any product that seeps past the first seal, or introduce an inert gas or water between the seals for a positive isolation. These Isolation Block and Bleed plugs are available for most size, pressure, chemical, and temperature requirements. We look forward to providing plugging systems to meet your specific requirements.



Plug Diameter Maximum*		Maximum Inflation		**Pipeline Max. Head		Inflation Flange	Inflated Seal Length each plug		Shpg Wt lbs	Item Number
in	mm	psig	bar	ft	m		in	mm		
12	305	120	8.3	138	42	2" x 300 lb	18	457	140	129-012-BB
15	381	100	6.9	115	35	2" x 300 lb	22	558	145	129-015-BB
16	406	100	6.9	115	35	2" x 300 lb	24	610	148	129-016-BB
18	457	100	6.9	115	35	2" x 300 lb	27	685	153	129-018-BB
20	508	80	5.5	92	28	2" x 300 lb	30	762	155	129-020-BB
24	610	80	5.5	92	28	2" x 300 lb	36	914	157	129-024-BB
30	762	60	4.1	70	21	2" x 300 lb	45	1143	173	129-030-BB
33	838	50	3.4	58	17	2" x 300 lb	49	1244	176	129-033-BB
36	914	50	3.4	58	17	2" x 300 lb	54	1372	190	129-036-BB
42	1067	40	2.7	46	14	4" x 300 lb	63	1600	203	129-042-BB
48	1219	30	2	35	10.5	4" x 300 lb	72	1829	229	129-048-BB
54	1372	30	2	35	10.5	4" x 300 lb	81	2057	264	129-054-BB
60	1524	20	1.3	23	7	4" x 300 lb	90	2286	268	129-060-BB
66	1676	20	1.3	23	7	4" x 300 lb	99	2514	285	129-066-BB
72	1829	20	1.3	23	7	6" x 300 lb	108	2743	300	129-072-BB
84	2133	15	1	17	5.3	6" x 300 lb	126	3200	330	129-084-BB
96	2438	15	1	17	5.3	6" x 300 lb	144	3657	360	129-096-BB

\*Unless otherwise noted, pipe diameter assumes Schedule 40 steel pipe up through 10" and Standard Schedule with a .375" wall over 10" nominal size.

- Please specify inflation flange location: centered on diameter or centered on end.
- May not provide a perfect seal for pipeline testing without customization

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

*Plug pressurized pipelines with MULTI-FLEX® Plugs*

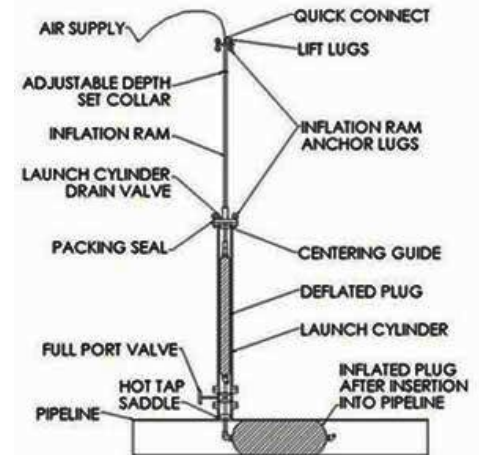
Other sizes and custom configurations also available

This Hot Tap MULTI-FLEX® Plug is configured for installation through a hot tap. The Plug has an internal stiffener and a directional shoe on one end for installation through a hot tap and around a 90 degree bend. These Plugs generally have a woven ballistic nylon reinforced polyurethane outer ply but may be customized for a customer's specific requirements.

- Easy hot tap (live) insertion
- Stops flow for repairs
- Small deflated diameter
- Flexibility allows navigation around corners
- Tough materials for long life
- These plugs are generally made with a Nylon reinforced Polyurethane outer ply. Many other materials and sizes available.
- May not provide a perfect seal for pipeline testing without customization



Plug Diameter		Hot Tap		Maximum Inflation		**Pipeline Max. Head		Inflation Port	Deflated Length		Shpg Wt	Item Number
in	mm	in	mm	psig	bar	ft	m	in npt	in	mm	lbs	
2	51	1.75	45	90	6.2	103	31.3	3/4 F RE*	10.75	273	2	128-002
3	76	1.875	48	90	6.2	103	31.3	3/4 F RE*	13.75	349	2	128-003
4	102	2.5	64	90	6.2	103	31.3	3/4 M	19	482	6	128-004
6	152	3.25	83	90	6.2	103	31.3	1 1/4 M	25	635	10	128-006
8	203	4.5	114	90	6.2	103	31.3	2 M	29	736	18	128-008
10	254	4.75	121	90	6.2	103	31.3	2 M	40	1016	26	128-010
12	305	5.5	140	90	6.2	103	31.3	2 M	46	1168	30	128-012
15	381	5.5	140	57	3.9	65	19.8	2 M	55	1397	34	128-015
16	406	5.5	140	48	3.3	55	16.7	2 M	58	1473	34	128-016
18	457	6.25	159	48	3.3	55	16.7	2 M	63	1600	36	128-018
20	508	6.5	165	40	2.7	46	14	2 M	69	1752	41	128-020
24	610	7.25	184	37	2.5	42	12.8	3 M	82	2082	63	128-024
30	762	7.875	200	30	2	34	10.3	3 M	100	2540	80	128-030
33	838	8.875	225	30	2	34	10.3	3 M	110	2794	87	128-033
36	914	9.5	241	27	1.8	31	9.4	3 M	122	3098	93	128-036
42	1067	9.5	241	21	1.4	24	7.3	3 M	138	3505	144	128-042
48	1219	9.75	248	15	1	17	5.1	3 M	154	3911	179	128-048
54	1372	11.75	298	12	0.8	13	3.9	3 M	184	4673	198	128-054
60	1524	12.75	324	9	0.6	10	3	3 M	199	5054	216	128-060
66	1676	12.75	324	8	0.5	9	2.8	3 M	216	5486	221	128-066
72	1829	15	381	7	0.4	8	2.4	3 M	233	5918	225	128-072
84	2134	15	381	5	0.3	5	1.5	3 M	268	6807	261	128-084
96	2438	15	381	4	0.2	4	1.2	3 M	303	7696	297	128-096



\* Requires Rotating Elbow

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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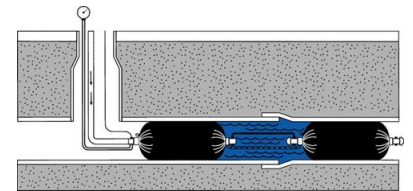
Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
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*Compact Diameter. Inflates Up To 8 Times For Easy Insertion*

Most sizes afford easy placement by one man. Flexibility allows MULTI-FLEX® plugs to navigate through small hot tap or branch pipe into large pipeline; then inflate with air or water.

Typically used for plugging or testing of pipelines especially when there is small-restricted access. The MULTI-FLEX® plug is the most flexible plug on the market; it has the greatest multi-size range and will conform to almost any pipe configuration. The small-deflated diameter and flexibility allows insertion and removal through a manhole for plugging otherwise inaccessible pipelines. It is also used as a semi permanent valve to isolate hazardous waste spills. Nylon reinforced Nitrile outer ply provides a long life and an excellent seal for testing. No shelf rot like rubber plugs.

- High Strength Flexible Materials: Plugs are generally made with Nylon reinforced Nitrile outer ply and have connections for water or air inflation.
- PETERSEN® MULTI-FLEX® plugs may be used in any pipeline larger than the deflated diameter. Allow for some seepage in smaller size pipelines
- Most sizes are available for prompt shipment.
- Light Weight: Allows one person insertion for most sizes and applications.
- Diver Friendly: Small deflated size allows removal of air for easier insertion under water.
- Higher Head Pressure: All inflation pressure is applied to the inside wall of the pipe through the MULTI-FLEX® plug. Molded rubber plugs require much of the inflation pressure just to expand the plug.
- Flexibility: Deflated MULTI-FLEX® plug easily navigates bends and small openings. A 72" MULTI-FLEX® plug may be inserted through a 10" opening!
- Custom Configurations: Custom Flexible and Rigid Plugs have been manufactured for many high temperature and severe chemical



Pipe Diameter				Maximum Inflation	**Pipeline Max. Head	Inflation Port*	Deflated Length	Shpg Wt	Item Number			
Maximum	Minimum	in	mm									
in	mm	in	mm	psig	bar	ft	m	in npt	lbs			
2	51	1.7	44	30	2.1	35	10.6	1/2 M - 1/4 QC	10.5	266	2	114-002
3	76	2	51	30	2.1	35	10.6	1/2 M - 1/4 QC	14	356	2	114-003
4	102	2.5	64	30	2.1	35	10.6	1/2 M - 1/4 QC	16	406	3	114-004
6	152	3	77	30	2.1	35	10.6	1 M - 1/4 QC	19	482	6	114-006
8	203	3.5	89	30	2.1	35	10.6	1 M - 1/4 QC	21	533	6	114-008
10	254	3.5	89	30	2.1	35	10.6	1 M - 1/4 QC	26	660	7	114-010
12	305	4.5	115	25	1.7	29	8.8	1 1/2 M - 1/4 QC	30	762	11	114-012
15	381	5.5	140	25	1.7	29	8.8	2 M - 1/2 QC	34	864	16	114-015
16	406	5.5	140	25	1.7	29	8.8	2 M - 1/2 QC	41	1041	22	114-016
18	457	6	153	22	1.5	25	7.7	2 M - 1/2 QC	45	1143	24	114-018
20	508	6	153	20	1.4	23	7.9	2 M - 1/2 QC	50	1270	25	114-020
24	610	6	153	10	0.7	12	3.5	2 M - 1/2 QC	59	1498	28	114-024
30	762	6	153	9	0.6	10	3.2	2 M - 1/2 QC	73	1854	34	114-030
33	838	7	178	9	0.6	10	3.2	2 M - 1/2 QC	74	1879	36	114-033
36	914	7	178	9	0.6	10	3.2	2 M - 1/2 QC	84	2133	40	114-036
42	1067	8	204	9	0.6	10	3.2	3 M - 1/2 QC	96	2438	56	114-042
48	1219	9	229	6.5	0.4	7.5	2.3	3 M - 1/2 QC	107	2717	72	114-048
54	1372	9	229	5	0.3	5.8	1.8	3 M - 1/2 QC	139	3530	90	114-054
60	1524	10	254	4.5	0.3	5.2	1.6	3 M - 1/2 QC	146	3708	104	114-060
66	1676	10	254	4	0.3	4.6	1.4	3 M - 1/2 QC	159	4038	124	114-066
72	1829	10	254	4	0.3	4.6	1.4	3 M - 1/2 QC	171	4343	146	114-072
84	2133	11	280	3	0.2	3.5	1.1	3 M - 1/2 QC	197	5004	195	114-084



Deflated

For Integral anchoring harness: Add 25% to price - Suffix "H"

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

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## Compact Diameter. Inflates Up To 8 Times For Easy Insertion

Most sizes afford easy placement by one man. Flexibility allows MULTI-FLEX® plugs to navigate through small hot tap or branch pipe into large pipeline; then inflate with air or water.

Typically used for plugging or testing of pipelines especially when there is small-restricted access. The MULTI-FLEX® plug is the most flexible plug on the market; it has the greatest multi-size range and will conform to almost any pipe configuration. The small-deflated diameter and flexibility allows insertion and removal through a manhole for plugging otherwise inaccessible pipelines. It is also used as a semi permanent valve to isolate hazardous waste spills. Nylon reinforced Nitrile outer ply provides a long life and an excellent seal for testing. No shelf rot like rubber plugs.

- High Strength Flexible Materials: Plugs are generally made with Nylon reinforced Nitrile outer ply and have connections for water or air inflation.
- Bypass: The by-pass design allows flow through during repairs. Flow-thru diameters available up to 3" on standard MULTI-FLEX® plugs and larger sizes on custom configurations.
- PETERSEN® MULTI-FLEX® plugs may be used in any pipeline larger than the deflated diameter. Allow for some seepage in smaller size pipelines
- Almost any size and configuration is available.
- Light Weight: PETERSEN® MULTI-FLEX® By-Pass plugs are much lighter than molded rubber plugs for easy placement.
- Diver Friendly: Small deflated size allows removal of air for easier insertion under water.
- Higher Head Pressure: All inflation pressure is applied to the inside wall of the pipe through the MULTI-FLEX® plug. Molded rubber plugs require much of the inflation pressure just to expand the plug.
- Flexibility: Deflated MULTI-FLEX® plug easily navigates bends and small openings. A 72" MULTI-FLEX® plug may be inserted through a 24" manhole!
- Vapor Seal: Specific size vapor seals are available to allow multi-size line testing with one MULTI-FLEX® plug.
- Custom Configurations: Custom Flexible and Rigid Plugs have been manufactured for many high temperature and severe chemical applications. Please contact a Petersen engineer to discuss your requirements.
- May not provide a perfect seal for pipeline testing without customization

Pipe Diameter				By-Pass Connection	Maximum Inflation		**Pipeline Max. Head		Inflation Port* in npt	Deflated Length		Shpg Wt lbs	Item Number
Maximum in	Minimum in	Maximum mm	Minimum mm		psig	bar	ft	m		in	mm		
4	102	2.5	63	1/8 F	30	2.1	35	10.6	1/8 F - 1/4 QC	16	406	6	115-004
6	152	3	76	1/8 F	30	2.1	35	10.6	1/8 F - 1/4 QC	19	482	10	115-006
8	203	3.5	89	1/8 F	30	2.1	35	10.6	1/8 F - 1/4 QC	21	533	11	115-008
10	254	3.5	89	1/8 F	30	2.1	35	10.6	1/8 F - 1/4 QC	26	660	13	115-010
12	305	4.5	114	3/8 F	25	1.7	29	8.8	3/8 F - 1/4 QC	30	762	17	115-012
15	381	5.5	140	3/4 F	25	1.7	29	8.8	3/8 F - 1/2 QC	34	864	24	115-015
16	406	5.5	140	3/4 F	25	1.7	28	8.8	3/8 F - 1/2 QC	41	1041	28	115-016
18	457	6	152	3/4 F	22	1.5	25	7.7	3/8 F - 1/2 QC	45	1143	32	115-018
20	508	6	152	3/4 F	20	1.4	23	7	3/8 F - 1/2 QC	50	1270	35	115-020
24	610	6	152	3/4 F	10	0.7	11	3.5	3/8 F - 1/2 QC	59	1498	38	115-024
30	762	6	152	3/4 F	9	0.6	10	3.2	3/8 F - 1/2 QC	73	1854	46	115-030
33	838	7	178	3/4 F	9	0.6	10	3.2	3/8 F - 1/2 QC	74	1879	50	115-033
36	914	7	178	3/4 F	9	0.6	10	3.2	3/8 F - 1/2 QC	84	2133	54	115-036
42	1067	8	203	3/4 F	9	0.6	10	3.2	3/8 F - 1/2 QC	96	2438	70	115-042
48	1219	9	229	3/4 F	6.5	0.4	7.5	2.3	3/8 F - 1/2 QC	107	2717	90	115-048
54	1372	9	229	3/4 F	5	0.3	5.8	1.8	3/8 F - 1/2 QC	134	3404	111	115-054
60	1524	10	254	3/4 F	4.5	0.3	5.2	1.6	3/8 F - 1/2 QC	146	3708	127	115-060
66	1676	10	254	3/4 F	4	0.3	4.6	1.4	3/8 F - 1/2 QC	159	4038	148	115-066
72	1829	10	254	3/4 F	4	0.3	4.6	1.4	3/8 F - 1/2 QC	171	4343	180	115-072



\*QC Quick connection

Inflation controllers, gauges, hoses, etc. on our accessories page

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

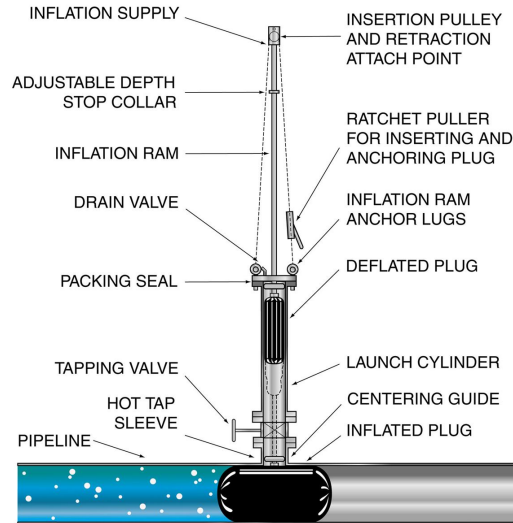
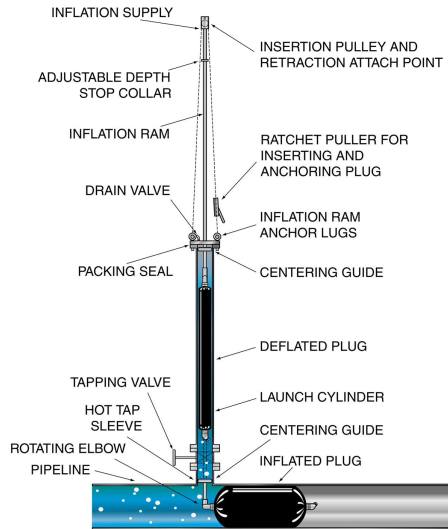
**Petersen Products Company**

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## Inflatable Line Stop™ Plug Insertion Systems, Pipe Sizes: 2" and Larger, 939 Series

### Compact Plug Diameter Allows Insertion Through Small Hot (Live) Tap

Launch cylinder with inflation ram and packing seal allows insertion of PETERSEN® Plugs into pressurized pipeline. Typically used for plugging of pipelines through a hot tap in the side of the pipe or through a valve on the end of a pipe. A variety of PETERSEN® MULTI-FLEX® Plugs are available for most chemical, pressure, and temperature requirements. A 36" plug as an example may be installed through a 10" tap with the pipeline pressurized.



View our Hot Tap Plugging Slide Show and Video on our website

For 128-Series MULTI-FLEX® Plugs							For 129-Series MULTI-FLEX® Plugs						
Max Plug Dia in	Launch Cylinder Dia in	Launch Cylinder Length in	Infl Ram Length in	~shpn Wt lbs	Item Number	Unit Price Each	Max Plug Dia in	Launch Cylinder Dia in	Launch Cylinder Length in	Infl Ram Length in	~Shpg Wt lbs	Item Number	
2-3	2 npt	24	48	Call	939-8020-24	\$1,304	2	2 npt	12	36	Call	939-8020-12	
4	3 npt	36	60	Call	939-8030-36	\$1,521	3	3 npt	12	36	Call	939-8030-12	
6	4 flanged	36	72	Call	939-9040-36	\$2,330	4	4 npt	12	48	Call	939-8040-12	
8	6 flanged	48	84	Call	939-9060-48	\$2,411	6	4 npt	24	60	Call	939-8040-24	
10	6 flanged	60	96	Call	939-9060-60	\$2,666	8-10	6 flanged	24	60	Call	939-9060-24	
12-15	6 flanged	72	108	Call	939-9060-72	\$2,856	12-15	8 flanged	36	72	Call	939-9080-36	
16	6 flanged	84	108	Call	939-9060-84	\$3,047	16-20	10 flanged	36	72	Call	939-9100-36	
18	8 flanged	84	120	Call	939-9080-84	\$3,327	24	12 flanged	48	84	Call	939-9120-48	
20	8 flanged	96	132	Call	939-9080-96	\$3,470	30-33	12 flanged	60	96	Call	939-9120-60	
24	8 flanged	108	144	Call	939-9080-108	\$3,530	36	12 flanged	72	108	Call	939-9120-72	
30	8 flanged	132	168	Call	939-9080-132	\$3,820	42	16 flanged	72	108	Call	939-9160-72	
33	10 flanged	144	192	Call	939-9100-144	\$4,633	48	16 flanged	84	120	Call	939-9160-84	
36	10 flanged	156	204	Call	939-9100-156	\$4,792	54	16 flanged	96	132	Call	939-9160-96	
42	10 flanged	180	228	Call	939-9100-180	\$4,955	60	18 flanged	108	144	Call	939-9180-108	
48	10 flanged	192	252	Call	939-9100-192	\$5,108	66	20 flanged	120	168	Call	939-9200-120	
54	12 flanged	228	288	Call	939-9120-228	\$5,837	72	24 flanged	132	180	Call	939-9240-132	
60	14 flanged	240	300	Call	939-9140-240	\$7,866	84	24 flanged	144	192	Call	939-9240-144	
66	14 flanged	264	324	Call	939-9140-264	\$8,059	96	30 flanged	168	216	Call	939-9300-168	
72	16 flanged	264	336	Call	939-9160-264	\$8,415							
84	16 flanged	324	396	Call	939-9160-324	\$8,804							
96	16 flanged	372	444	Call	939-9160-372	\$9,357							

\*Insertion System Includes: launch cylinder, inflation packing seal (gland), inflation ram, centering guide, and drain/fill valve. (Full port tapping valve with RF flange and hot tap sleeve or saddle by others.) 150 lb. flanges are standard and the lengths are calculated with estimated valve heights and pipe IDs and ODs and may be adjusted for your requirement. Other sizes and configurations available.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

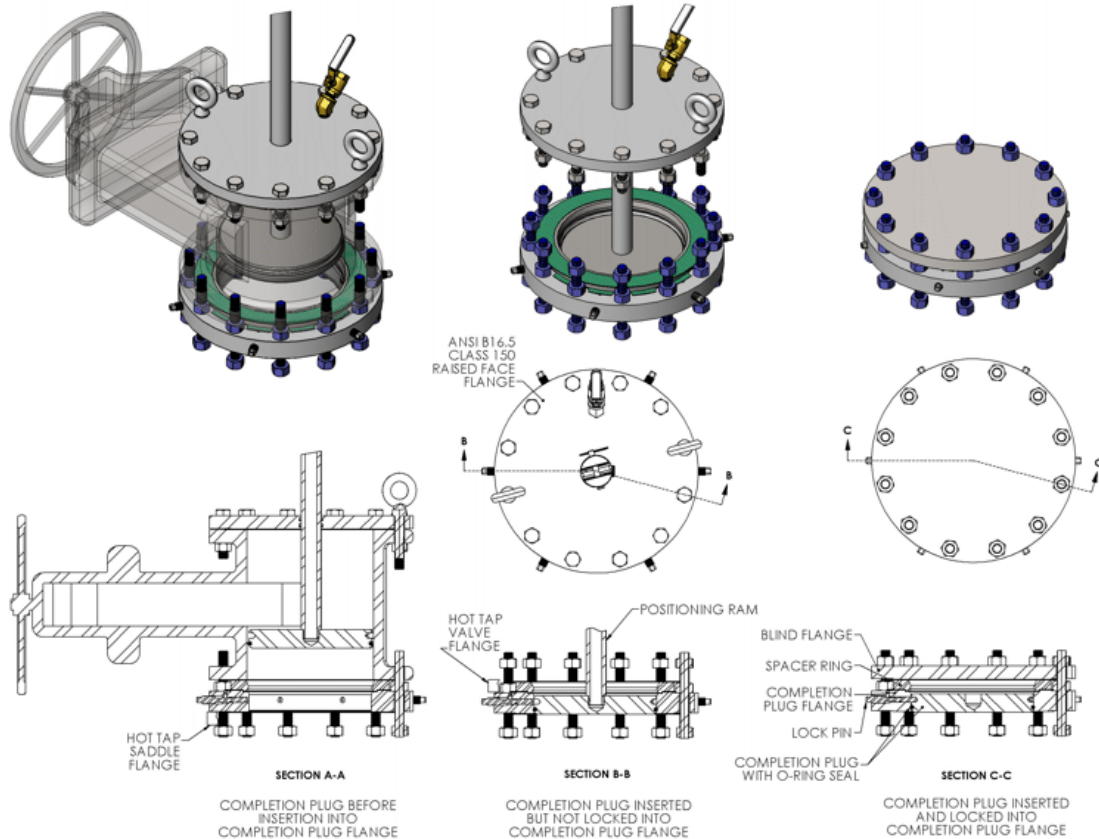
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## Completion Plugs, 150-Series

*Completion Plug allows for removal of Hot Tap Valve*



Call for configuration and pricing for your requirements

Products covered by one or more of the following patents:  
 4,565,222; 5,353,842; 5,901,752; 6,446,669; 6,568,429; 6,899,138 and other applications pending.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Hot Tap Sleeves, 910-4 Series

### For Hot Tap Pipe Plug Insertion Systems

These hot tap sleeves are fast and easy to install with simple hand tools, require no caulking or special equipment and may be used with any standard tapping valve. The sleeve design directly reinforces without shims or pads and weighs less than heavy cast iron sleeves. The self-energizing gasket will not roll or bind on installation and the seal increases with line pressure. The generous cross section of the sleeve assures a good seal even on rough or pitted pipe. These hot tap sleeves consist of two sections of heavy welded steel that bolt together on the pipe and seal against a concave wedge gasket around the tap opening. The outlet half has a recessed flat faced flange to mate with standard tapping valves per MSS SP60 up through 12" size-on-size. For tap sizes 14" and above, flanges can be furnished to accommodate the valve requirements. The outlet half also has a 3/4" npt test plug.

Material Specifications: Body is made of carbon steel, Flanges of AWWA C207 Class D, ANSI 150 lb. drilling, Gasket is Nitrile, Bolts, nuts, and washers are of a high strength low alloy steel with heavy semi-finished hexagon nuts, and the Finish is fusion bonded Fexi-Coat epoxy, coated to an average of 12 mil thickness.

Nominal Size Pipe x Flange Outlet Inches	O.D. Range Inches	Shpg Wt lbs	Item Number
4 x 3	4.5	34	910-4304-030450
4 x 4*	4.5	34	910-4304-040450
6 x 3	4.5	34	910-4306-030450
6 x 4	6.57 - 6.73	71	910-4306-040657
6 x 6*	6.57 - 6.73	76	910-4306-060657
8 x 4	8.36 - 8.75	78	910-4308-040836
8 x 6	8.36 - 8.75	87	910-4308-060836
10 x 4	10.45 - 10.88	82	910-4310-041045
10 x 6	10.45 - 10.88	94	910-4310-061045
10 x 8	10.45 - 10.88	125	910-4310-081045
12 x 6	12.42 - 12.88	135	910-4312-061242
12 x 8	12.42 - 12.88	170	910-4312-081242
14 - 16 x 6	15.73 - 16.22	111	910-4316-061573
14 - 16 x 8	15.73 - 16.22	148	910-4316-081573
14 - 16 x 10	15.73 - 16.22	204	910-4316-101573
16 x 6	17.88 - 18.43	122	910-4316-061788
16 x 8	17.88 - 18.43	162	910-4316-081788
16 x 10	17.88 - 18.43	216	910-4316-101788
18 x 8	19.41 - 20.01	162	910-4318-081941
18 x 10	19.41 - 20.01	216	910-4318-101941
18 x 12	19.41 - 20.01	245	910-4318-121941
20 x 8	21.51 - 22.15	180	910-4320-082151
20 x 10	21.51 - 22.15	232	910-4320-102151
20 x 12	21.51 - 22.15	281	910-4320-122151
24 x 8	24.82 - 25.52	197	910-4324-082482
24 x 10	24.82 - 25.52	258	910-4324-102482
24 x 12	24.82 - 25.52	284	910-4324-122482

\*Size-on-Size Taps require a 1/2" undersize shell cutter.  
Other sizes and configurations available upon request.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Annular Seals, Inflatable MULTI-FLEX®, 111-Series

*For almost any size, pressure, chemical, and temperature requirements*

Petersen can manufacture Annular Seals for almost any size, pressure, chemical, and temperature requirements. Annular seals can be made with a continuous seal to slip over the end of a pipe or open-ended to form around a pipe already in place. The PETERSEN® MULTI-FLEX® Annular Seals are very flexible, easy to install, and have many inflation connection options. These seals are ideal for bypassing a pipeline during repairs or any other temporary small to large pipeline connection.

We will quickly provide a price and shipment lead time. To receive a quick quote contact us by email, fax or phone.

Please provide:

- Inner seal diameter
- Outer seal diameter
- Head pressure to hold back
- Any unusual chemical or temperature requirements



Seal ID		Seal OD		Seal Length		Max. Inflation		Item
Inches	mm	Inches	mm	Inches	mm	PSI	Bar	Number
4.5	115	12	194	7.63	194	25	1.7	111-0408-6
6.63	169	12	305	6	153	25	1.7	111-0612-6
8.83	225	15.25	388	6	153	25	1.7	111-0816-6
10.75	274	17.25	439	8	204	25	1.7	111-1018-8
12.75	324	17.25	439	8	204	25	1.7	111-1218-8
16	407	23.25	591	8	204	25	1.7	111-1624-8
18	458	23.25	591	12	305	25	1.7	111-1830-12
20	508	25.25	642	12	305	25	1.7	111-2026-12
24	610	35.25	896	16	407	25	1.7	111-2436-16
30	762	41.25	1048	16	407	25	1.7	111-3042-16
36	915	47.25	1201	18	458	25	1.7	111-3648-18
42	1067	47.25	1201	18	458	25	1.7	111-4248-18

Other sizes available on request.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

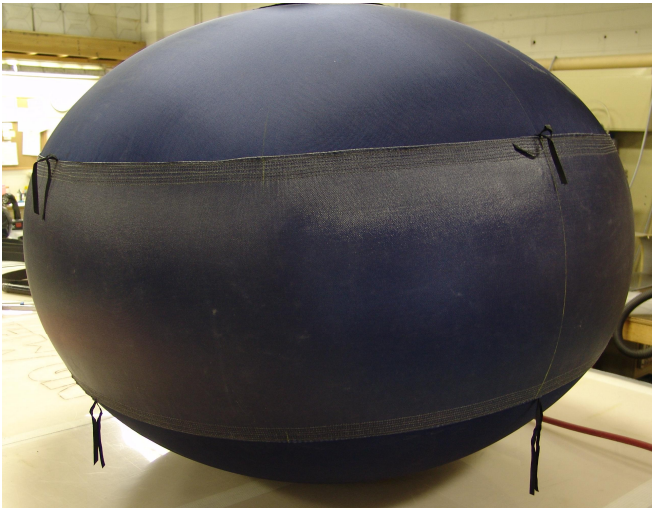
**Petersen Products Company**

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Bladders, Custom Inflatable

*For most temperature and chemical requirements*

Custom flexible and Inflatable Line Stop™ products are available from materials applicable to most temperature and chemical requirements. A few of the many woven and non-woven materials used in the past include Canvas, EPDM, Kevlar, Neoprene, Nitrile, nylon, Polyurethanes, Polyester, Polyethylene, Polyvinylchloride, Viton, Viton Extreme, etc.



Products covered by one or more of the following patents: 4,565,222; 5,353,842; 5,901,752; 6,446,669; 6,568,429; 6,899,138 and other applications pending.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

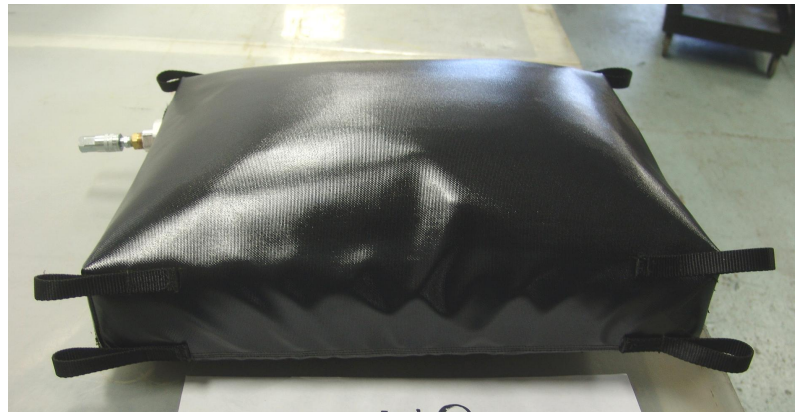
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## Duct Balloons and Seals, Custom Inflatable

*For almost any requirement*

These custom Inflatable Line Stop™ duct balloons are available from materials applicable to most temperature and chemical requirements and can be inserted within duct doors to provide a superior seal far better than frames and sheeting. Please contact us via phone, email or fax with your unique needs so we may offer a solution for your project.



Products covered by one or more of the following patents: 4,565,222; 5,353,842; 5,901,752; 6,446,669; 6,568,429; 6,899,138 and other applications pending.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Inflatable, Plumber Style Test, Rubber With & Without By-Pass, Pipe Sizes: 0.8" to 12" , 137 Series

### Multi-size pneumatic molded rubber plugs for testing residential and commercial plumbing

Made of special Styrene-butadiene rubber (SBR), these pipe plugs are ideal for testing of plumbing systems in residential and commercial buildings where smaller and shorter pipe plugs are needed. By-pass plugs are threaded both ends.



Tire inflation valves may be removed to expose British Standard Pipe Thread fitting for direct hose connection or for adding a quick connect. Blocking plugs are 1/4" BSPT and bypass plugs are 1/8" BSPT excluding the 8", 10" & 12" Bypass Plugs which are 1/4".

By-pass plugs are threaded both ends.

Pipe Diameter		By-Pass Size in npt	Plug Diameter		Required Inflation psig	**Pipeline		Deflated Length in	Shpg Wt lbs	Item Number				
Maximum in	Minimum mm		in	mm		Max. Head ft	Valve m				Type			
<b>Multi-Size Pneumatic Sealing Plugs Without By-Pass</b>														
3	76	1.8	46	1.8	46	36	34	10.4	tire	4.3	110	1	137-003-M	
4	102	2.8	72	2.8	72	36	34	10.4	tire	5.1	130	1	137-004-M	
6	152	3.4	87	3.3	84	36	34	10.4	tire	7.7	196	1	137-006-M	
8	203	5.6	143	5.6	143	36	34	10.4	tire	9.8	249	3	137-008-M	
<b>Single Size Pneumatic Sealing Plugs Without By-Pass</b>														
1.3	33	0.8	20	0.8	20	36	34	10.4	tire	3.9	99	1	137-0013	
1.6	41	1.3	33	1.3	33	36	34	10.4	tire	3.9	99	1	137-0016	
2	51	1.8	46	1.8	46	36	34	10.4	tire	4	102	1	137-002	
3	76	2.8	72	2.8	72	36	34	10.4	tire	4.5	114	1	137-003	
4	102	3.4	87	3.3	87	36	34	10.4	tire	6.9	176	1	137-004	
6	152	5.6	143	5.6	143	36	34	10.4	tire	8.7	221	3	137-006	
8	203	6.9	176	6.9	176	36	34	10.4	tire	10.4	265	5	137-008	
10	254	8.6	219	8.6	219	36	34	10.4	tire	11.6	295	8	137-010	
12	305	10.8	275	10.8	275	36	34	10.4	tire	13.2	336	15	137-012	
<b>Multi-Size Plugs With By-Pass</b>														
4	102	2.8	72	1/2 F	2.8	72	36	34	10.4	tire	5.1	130	1	137-004-8M
6	152	3.4	87	1/2 F	3.3	87	36	34	10.4	tire	7.7	196	2	137-006-8M
8	203	5.6	143	1 F	5.6	143	36	34	10.4	tire	9.8	249	5	137-008-8M
<b>Single Size Plugs With By-Pass</b>														
2	51	1.8	46	1/8 F	1.8	46	36	34	10.4	tire	4.3	110	1	137-002-8
3	76	2.8	72	1/2 F	2.8	72	36	34	10.4	tire	4.5	114	1	137-003-8
4	102	3.4	87	1/2 F	3.3	87	36	34	10.4	tire	6.9	176	2	137-004-8
6	152	5.6	143	1 F	5.6	143	36	34	10.4	tire	8.7	221	5	137-006-8
8	203	6.9	176	2 F	6.9	176	36	34	10.4	tire	11.2	285	8	137-008-8
10	254	8.6	219	2 F	8.6	219	36	34	10.4	tire	13.6	346	12	137-010-8
12	305	10.8	275	2 F	10.8	275	36	34	10.4	tire	15.6	397	21	137-012-8

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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email: sales@PetersenProducts.com

*Multi-size rubber plugs for testing residential and commercial plumbing systems*

**Single-Size Test Plugs**

The most popular pipe plug for 50 years still gets the job done every time. Designed to test drain, vent, and waste systems, this single-size plug is a must for those involved in the installation and repair of residential, commercial, and industrial piping systems.

- More flexible than traditional mechanical plugs
- Easily fits test tees, closet bends, sanitary tees, floor drains, and roof vents
- Includes a 12" removable zinc-plated steel chain for ease of replacement
- Over-sized ring prevents accidental loss down a pipe
- Can be used for head pressure testing or as a blocking plug for low-pressure air testing



The 8", 10", and 12" single-size plugs are ideal for the testing and maintenance of sanitary or storm sewer pipes. These plugs have a removable 3/16" eyebolt and a threaded 1/4" tire inflation valve that can easily be replaced or exchanged with a quick disconnect or any threaded 1/4" fitting. Can be used for head pressure testing or as a back plug for air testing. Where 1/4" and 1/2" port are included, the 1/4" port has a tire valve and the 1/2" port is blocked.

**Multi-Size Test Plugs**

Based on the single-size test plug design, one multi-size test plug works in up to three different pipe sizes - saving time, money, and shelf/truck space. Easily fits closet bends, sanitary tees, and floor drains. These plugs are ideal for both blocking sewer flow and for use as a back plug in low-pressure air tests.

Both the single and multi-size test plugs are made from long-lasting natural rubber with a molded rib design. These plugs are durable, tear-resistant, and works on any type of pipe, including out-of-round pipe. Always block plugs when conducting air tests.

Pipe Diameter		Nominal Size		Required Inflation psig	**Pipeline Max Allowable Back Pres				Valve Type	Deflated		Shpg Wt lbs	Item Number				
Maximum	Minimum	in	mm		Head Pressure	Air Pressure	Length	Dia									
in	mm	in	mm	ft	m	psi	bar	in	mm	in	mm						
For Plumbing Applications: equipped with an over-sized ring and 12" chain. The 1/4" tire inflation valve is molded in with a cap.																	
2.1	53	1.3	32	1.25-2	32-50	40	40	12	17	1.2	molded	5.56	141	1.21	31	1	130-002-M
3.1	80	1.9	48	2-3	50-75	35	40	12	17	1.2	molded	5.57	141	1.78	45	1	130-003-M
4.1	104	2.8	70	3-4	75-100	40	40	12	17	1.2	molded	5.18	132	2.64	67	1	130-004-M
6.1	155	3.4	87	4-6	100-150	30	40	12	17	1.2	molded	9.47	241	3.28	83	2	130-006-M
For Sewer Applications: equipped with a removable tire inflation valve and has an eye bolt for plug installation and removal.																	
6.25	159	3.75	92	4-6	100-150	40	40	12	17	1.2	1/8"	10.25	250	3.5	85	2	130-006-MS
8.25	210	5.25	140	6-8	150-200	35	40	12	17	1.2	1/4"	14	356	4.5	114	4	130-008-MS
8.25	210	3.6	92	4-8	100-200	30	30	9.1	13	0.9	1/4"	20.6	469	3.5	70	3	130-008-MSM
12.25	311	7	178	8-12	200-300	20	25	8	11	0.75	1/4"	16	406	6.75	171	7	130-012-MS
12.25	310	5.5	140	6-12	150-300	30	30	9.1	13	0.9	1/4"	26.25	667	5.25	133	5	130-012-MSM
16.25	413	7.5	186	8-16	200-400	30	30	9.1	13	0.9	1/4"	29.5	750	7.25	184	15	130-016-MS
18.25	464	10.75	273	12-18	300-450	25	25	8	11	0.75	1/4"	24	610	10.5	267	23	130-018-MS
24.25	616	11	279	12-24	300-600	30	30	9.1	13	0.9	1/4"	39.5	1003	10.75	273	28	130-024-MS
24.25	616	11	279	12-24	300-600	30	16.7 5	5.1	7.5	0.5	1/4"	33	839	10.75	273	24	130-024-MSS
30.5	775	14.5	368	15-30	375-750	25	25	7.6	11	0.76	1/4" & 1/2"	51	1289	14	356	45	130-030-MS
40	1000	19	475	20-40	500-1000	22	20	6.1	8.7	0.6	1/4" & 1/2"	46.25	1175	18.5	470	100	130-040-MS

Continued next page

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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**Pipe Plugs, Inflatable, Plumber Style Test, Rubber Molded, Pipe Sizes: 0.75" to 18.25", 130-0 Series  
(Continued)**

*Multi-size rubber plugs for testing residential and commercial plumbing systems*

Pipe Diameter		Nominal Size		Required Inflation	Head Pressure	Air Pressure		Valve Type	Deflated		Shpg Wt	Item Number					
Maximum	Minimum					psi	bar		Length	Dia							
in	mm	in	mm	psig	ft	m	psi	bar	in	mm	lbs						
3510	1080	22.5	570	24-42	600-1050	25	20	6.1	9	0.62	1/4" & 1/2"	52	1320	22	560	100	130-042-MS
50	1270	20.5	520	24-48	600-1200	22	23	7	10	0.7	1/4" & 1/2"	74.5	1892	20	508	125	130-048-MS
60	1524	38	965	40-60	1000-1524	25	20	6.1	8.7	0.6	1/4" & 1/2"	73	1855	37.25	946	235	130-060-MS
60.5	1537	20.5	520	24-60	600-1524	22	14	4.3	6	0.41	1/2"	88	2235	20	500	180	130-060-MSM
72	1835	44	1118	48-72	1200-1800	12	14	4.3	6	0.41	1/2"	100	2540	43	1092	290	130-072-MS
96	2400	54	1400	54-96	1400-2400	11	14	4.3	6	0.41	1/2"	128	3200	50	1270	500	130-096-MS
Single-Size Test Plugs: the 1/4" tire inflation valve is molded in with a cap and sizes 8" and larger have a removable tire inflation valve with 1/4" MNPT																	
1.31	33	0.75	19	.75-1.25	19-30	45	40	12	17	1.2	molded	3.75	95	0.73	18	1	130-0012
1.75	44	1.17	30	1.25-1.5	30-40	40	30	9	13	0.9	molded	5.56	141	1.12	33	1	130-0015
2.25	57	1.9	48	2	50	40	30	9	13	0.9	molded	3.34	85	1.78	45	1	130-002
2.75	70	2.34	48	2.5	65	35	30	9	13	0.9	molded	4.5	114	2.31	59	1	130-0025
3.25	83	2.77	70	3	75	35	30	9	13	0.9	molded	5.18	132	2.64	67	1	130-003
4.25	108	3.41	87	4	100	30	30	9	13	0.9	molded	6.41	163	3.28	83	1	130-004
5.25	133	4.6	117	5	125	30	30	9	13	0.9	molded	7.88	200	4.48	114	2	130-005
6.25	159	5.44	138	6	150	30	30	9	13	0.9	molded	9.05	230	5.32	135	2	130-006
8.25	210	7	178	8	200	25	40	12	17	1.2	1/4"	10.11	257	6.75	172	4	130-008
10.25	260	9	229	10	250	25	40	12	17	1.2	1/4"	11.74	298	8.7	221	6	130-010
12.25	311	10.5	267	12	300	25	40	12	17	1.2	1/4"	13.83	351	10.3	262	11	130-012

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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*By-Pass (Flow-Thru) Design Allows Continuous Flow*

- Rigid By-Pass Plugs are generally made for higher pressure applications.
- They can be manufactured to meet a customer's exact requirements.
- These plugs are generally built on a hollow P.V.C. or aluminum core and have a 1/8" to 3/8" F npt inflation port.
- These plugs are made with Polyurethane or Ballistic Nylon Reinforced Polyurethane.



Pipe Diameter				By-Pass Connection in npt	Maximum Inflation		**Pipeline Max. Head		Deflated Length		Shpg Wt lbs	Item Number
Maximum in	Maximum mm	Minimum in	Minimum mm		psig	bar	ft	m	in	m		
2	51	1.75	44	1/8 F	85	5.7	41	12.6	8	0.2	1	126-002-8
3	76	2.5	63	1/4 F	85	5.7	41	12.6	10	0.3	1	126-003-8
4	102	3.5	88	1/2 F	85	5.7	41	12.6	12	0.3	2	126-004-8
6	153	5.5	140	1 F	50	3.5	41	12.6	12	0.3	5	126-006-8
8	203	7	178	2 F	50	3.5	41	12.6	16	0.4	10	126-008-8
10	254	9	229	2 F	50	3.5	41	12.6	18	0.4	11	126-010-8
12	305	11	279	2 F	50	3.5	41	12.6	22	0.5	12	126-012-8

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## Pipe Plugs, Inflatable, Remote Placement, Pipe Sizes: 6" to 18", 130-7 Series

*Eliminates the need to enter confined spaces and speeds up the pipe plugging process*

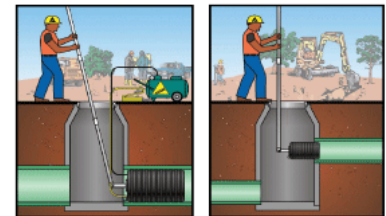
The Remo® Remote Placement plug provides two advantages - it eliminates the need to enter confined spaces and speeds up the pipe plugging process. The system is safer and less expensive to use than conventional plugging methods because it requires no confined space equipment to simply block sewer flow. A lightweight aluminum pole system\* or a standard 1½" iron pipe\*\* is used to place the Remo® plug in the sewer system.



- Multi-size design to seal multiple pipe sizes
- Can be locked at a 90° angle to seal openings in drop manholes
- Can be used as a back plug for sewer tests
- Adapters available to convert Muni-Ball® plugs into Remo® plugs
- Made with Natural Rubber

### Poly System Features:

- Consists of 6' lightweight aluminum poles with push-button construction
- Designed for plugs up to 30 lbs used in manhole depths of up to 20'
- 1/6th the weight of iron pipe
- Pole system requires Remo® pole adapter



\*Requires pole adapter  
 \*\*When added strength is needed, iron pipe is recommended

Nominal Size	Range of Use	Maximum Back Pressure	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain/Eye Bolts	Shpg Wt lbs	Item Number
6"-10" (150-250 mm)	5.5"-10.25" (140-260 mm)	13 psi (2.1 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	24" (610 mm)	5.25" (133 mm)	1/4" (2)	3/8" (1)	9 130-710
8"-12" (200-300 mm)	7.0"-12.25" (178-311 mm)	13 psi (2.1 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	25.5" (648 mm)	6.75" (171 mm)	1/4" (2)	3/8" (1)	12 130-712
12"-18" (300-450 mm)	10.50"-18.25" (273-464 mm)	13 psi (2.1 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	34" (863)	10.5" (267 mm)	1/4" (2)	3/8" (1)	27 130-718

### Accessories

Description	Shpg Wt lbs	Item Number
6' Remo® Pole	4	924-1307-72
Remo® Pole Adapter (1-1/4" MNPT)	1	924-1307-0125
1-1/2" Remo® Muni-Ball® Adapter	4	130-1307-015
2" Remo® Muni-Ball® Adapter	4	924-1307-02
2"-1-1/2" Remo® Reducer Bushing	1	924-1307-02015
3"-2" Remo® Reducer Bushing	2	924-1307-0302
4"-2" Remo® Reducer Bushing	2	924-1307-0402



Use pole(s) (or 1-1/4" iron pipe) for remote placement. Pole threads into plug fitting and use Pole Adapters to extend length by adding additional 6' poles - e.g. two poles for 12' requires one Pole Adapter. Poles are designed for plugs up to 30 pounds used in manhole depths up to 20 feet.

Always block plugs when conducting air tests.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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**Pipe Plugs, Inflatable, Two-Stage Long Kevlar® Reinforced Molded Rubber Plugs,  
Pipe Sizes: 1.75" to 6", 138 Series**

*Kevlar® Reinforced \*NR-SBR Rubber Plugs allow blocking and testing wye joints*

These Kevlar® reinforced \*NR-SBR rubber plugs are used for blocking and testing laterals and Y joints with air or water. Long Plugs are equipped with a 3 ft. inflation hose, chain, and over-size capture-disc for remote placement and retrieval.

Plugs can be easily inserted at an angle through connections into a main pipe. Sealing of each end is controlled separately by an internal two-stage controller.

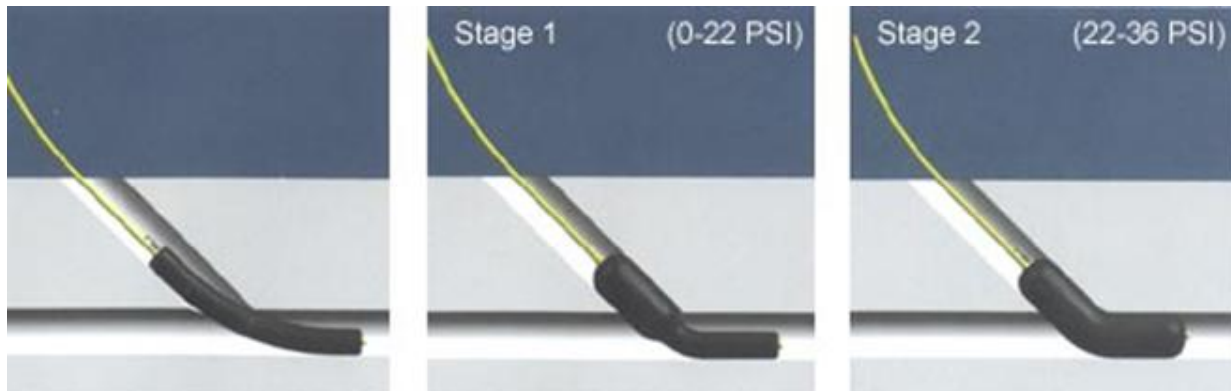
\* NR = Isoprene rubber, natural. SBR = Styrene-butadiene rubber.



Pipe Diameter		Plug Diameter		Required Inflation	**Pipeline			Deflated Length		Shpg Wt	Item Number
Maximum in	Minimum mm	in	mm		ft	m	Type	in	mm		
3	76	1.75	45	36	34	10.4	tire	22	559	2	138-003
4	102	2.5	64	36	34	10.4	tire	24	610	3	138-004
6	152	3.38	86	36	34	10.4	tire	31	787	4	138-006

Included hose is 3' in length

Two-stage control - Inflate the plug as shown...stage 1 seals one side of the "Y" at about 22 PSI, to prevent outflow .. inflate to 36 PSI and the mainline is also blocked.



See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Inflatable, Long Test-Ball, Pipe Sizes: 2" to 6", 130-3 Series

### Designed for Waste Stack Testing

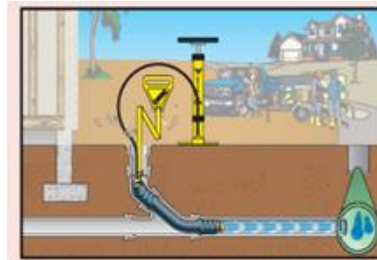
Cherne's Long Test-Ball® plugs are designed for waste stack testing and sealing the rise and the run to perform the test. These long ball plugs can also be used to seal the wye to conduct sewer air tests. Molded-in sealing ribs at each end of the plug ensure a leak-free seal.

#### Long Test-Ball® Plug ("The Original") Features:

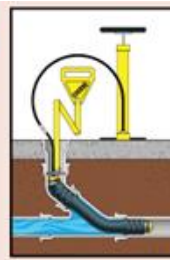
- Ring and chain assembly keeps plug from entering line during deflation
- Includes 3' extension hose
- Made with Natural Rubber

#### MS2® Long Test-Ball® Plug Features:

- Multi-size design for use in various pipe diameters
- Multi-stage design eliminates backsplash
- Integrated relief valve reduces the possibility of over-inflation
- Nylon strap and handle keeps plug from entering line during deflation
- Made with Natural Rubber
- Includes 5' extension hose



Long Test-Ball® & MS2® Long Test-Ball® plugs seals lateral during sewer air test



MS2® Long Test-Ball® Plugs Top inflates first, deflates last; no backsplash

Nominal Size	Range of Use	Maximum Back Pressure	Inflation Pressure	Product Weight	Deflated Length	Deflated Diameter	Shpg Wt lbs	Item Number
<b>Long Test-Ball</b>								
2" (50 mm)	1.75"-2.25" (44-57 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	45 psi (3.1 bar)	1.1 lbs (0.51 kg)	18.25" (464 mm)	1.5" (38 mm)	2 130-302
3" (75 mm)	2.75"-3.25" (70-83 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	35 psi (2.4 bar)	1.88 lbs (0.85 kg)	20.75" (527 mm)	2.31" (59 mm)	3 130-303
4" (100 mm)	3.5"-4.25" (89-108 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	2.31 lbs (1.04 kg)	24.75" (629 mm)	2.5" (64 mm)	3 130-304
4"-6" (100-150 mm)	3.25"-6.25" (83-159 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	45 psi (3.1 bar)	4 lbs (1.81 kg)	28.5" (724 mm)	3.0" (76 mm)	5 130-306-M
5" (125 mm)	4.5"-5.25" (114-133 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	4 lbs (1.81 kg)	27.75" (705 mm)	3.18" (81 mm)	5 130-305
6" (150 mm)	5.5"-6.25" (140-159 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	30 psi (2.1 bar)	5.3 lbs (2.41 kg)	28.25" (718 mm)	4.12" (105 mm)	7 130-306
<b>MS2 Long Test-Ball</b>								
2" - 3" (50-75 mm)	1.75"-3.25" (44-83 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	40 psi (2.8 bar)	1.31 lbs (0.5 kg)	19.44" (494 mm)	1.58" (37 mm)	2 130-303-MM
3" - 4" (75-100 mm)	2.75"-4.25" (70-108 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	40 psi (2.8 bar)	2.45 lbs (1.1 kg)	23.75" (603 mm)	2.38" (60 mm)	4 130-304-MM
4" - 6" (100-150 mm)	3.5"-6.25" (93-159 mm)	13 psi (0.9 bar)	30 ft. (9.1 M)	40 psi (2.8 bar)	3.91 lbs (1.41 kg)	26.62" (676 mm)	3.25" (83 mm)	5 130-306-MM

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Pipe Plugs, Inflatable, High Dilation, 131 Series

*Individual plugs cover a wide range of pipe sizes*

Individual plugs to cover a wide range of pipe sizes

Pipe Diameter		Deflated Diameter		Required Inflation Pressure		Inflation Valve Type	Deflated Length		Shpg Wt lbs	Item Number		
Minimum	Maximum	in	mm	Psig	Kg		in	mm				
3.75"	95.3	8.00"	203.2	3.5	88.9	43	3	QC	13.75	349	2	131-00408
4.00"	101.6	10.00"	254	3.62	91.9	43	3	QC	24	610	3.3	131-00410
6.00"	152.4	12.00"	304.8	5.7	145	43	3	QC	20	508	5.5	131-00612
7.67"	194.8	12.00"	304.8	7.28	185	43	3	QC	15	381	5.5	131-00812
8.00"	203.2	20.00"	508	7.28	185	43	3	QC	27.56	700	8.8	131-00820
11.50"	292.1	20.00"	508	11	279	43	3	QC	22.4	569	12	131-01220
20.00"	508	32.00"	812.8	19	483	43	3	QC	39.75	1010	37	131-02032
20.00"	508	40.00"	1016	19	483	43	3	QC	50	1270	52	131-02040



Universal coupler for SAE or European quick connect fittings

Back pressure in PSI as measured in clean, dry steel pipe

Part number	131-00408	131-00410	131-00612	131-00812	131-00820	131-01220	131-02032	131-02040
Pipe dia (in)	4" - 8"	4" - 10"	6" - 12"	8" - 12"	8" - 20"	12" - 20"	20" - 32"	20" - 40"
4	26	30						
6	23	28	33					
8	22	23	30	33	33			
10		19	26	28	33			
12			26	20	33	33		
14					30	29		
18					29	18		
20					15	20	33	33
24							33	33
27							28	30
32							28	29
36								22
40								15



High Dilation Plug Kit - covers sizes 4" through 40"

Description	Item Number	Unit Price
Kit - includes below:	131-01000K	
	Item	Description
	131-00410	Pipe Plug 4"-10"
	131-00820	Pipe Plug 8"-20"
	131-02040	Pipe Plug 20"-40"
	936-2038-2024	Hose assembly 3/8" x 24' 1/4" male & female quick connect
	936-2300-025	Pressure monitoring valve assembly with receptacles for gauge & relief valve
	936-1000-1060	Gauge 0 to 60 psig

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

**Pipe Plugs, Inflatable, Municipal Style Test, Kevlar® Reinforced Rubber w/o By-Pass,  
Pipe Sizes: 1.60" to 72", 134-0 Series**

*Multi-size pneumatic molded rubber plugs for testing residential and commercial plumbing*

These plugs are molded of special NR-SBR rubber, reinforced with Kevlar® tire cording. Due to their light weight and short length, these plugs are easy to handle even in large diameter sizes.

All plugs are equipped with a 1/4" male quick-connect inflation port. Reinforcement sleeves available for heavy duty use. 150°F / 65°C Maximum Operating Temperature

NR = Isoprene rubber, natural. SBR = Styrene-butadiene rubber.



Pipe Diameter		Plug Diameter		Required Inflation	**Pipeline Max. Head		Valve Type	Eye Bolt Size		Deflated Length		Shpg Wt	Item Number
Maximum in	Minimum mm	in	mm		ft	m		in	mm	in	mm		
2.8	72	1.6	41	36	34	10.4	1/4 M	0.24	6	7.7	195	1	134-002
6	153	2.8	72	36	34	10.4	1/4 M	0.24	6	13.2	335	2	134-006
8	203	3.63	92	36	34	10.4	1/4 M	0.24	6	21.1	536	3	134-008
12	305	5.63	143	36	34	10.4	1/4 M	0.32	8	23	584	7	134-012
16	406	7.5	190	36	34	10.4	1/4 M	0.32	8	25	635	10	134-016
21	533	10.75	273	36	34	10.4	1/4 M	0.32	8	26.6	676	16	134-021
24	610	13	330	36	34	10.4	1/4 M	0.39	10	34.1	867	22	134-024
30	762	14	356	36	34	10.4	1/4 M	0.39	10	42.7	1085	26	134-030
40	1016	19	483	22	16	4.9	1/4 M	0.39	10	46.7	1187	48	134-040
48	1219	23	584	22	16	4.9	1/4 M	0.39	10	59	1499	90	134-048
60	1524	30	762	15	13	4	1/4 M	0.39	10	90.6	2302	148	134-060
72	1828	32	812	15	13	4	1/4 M	0.39	10	116.5	2959	231	134-072

Inflation controllers, gauges, hoses, etc. on our accessories page. See 936-series for protective sleeves.

**See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products**

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## Pipe Plugs, Inflatable, Leak Detector Type, Pipe Sizes: 5.5" to 96", 130-4 Series

Designed for both low-pressure sewer line acceptance tests as well as leak location testing. Leak Detector Plugs can also be used to block flow.

### Features:

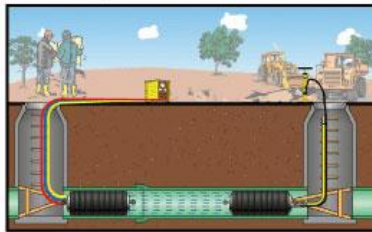
- Eye bolts on both ends
- Easy-to-use quick-disconnect hose connections
- Rupture discs available
- Cross-biased cording on sizes
- 15"-30", 24"-42", and 40"-60"
- Made with Natural Rubber

### Front Leak Detector Plugs also come equipped

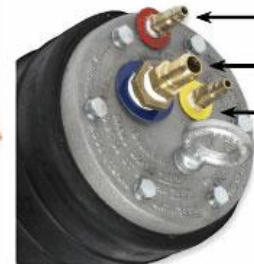
- Color-coded inflation ports
- Removable air fittings
- Flexible internal hoses
- Field replaceable sleeves

See next page for pressure ratings

Line Acceptance Test



Front Plug



- Red-Plug Inflation Port
- Blue-Test Area Inflation Port
- Yellow-Read Back Hose Port

Leak Detector Plugs Pressure Testing Panel  
Ideal for line acceptance testing and leak location testing.



Triple Hose  
Connect Leak Detector plugs to the control panel.

Nominal Size	Range of use	Maximum Back Pressure	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain/Eye Bolts	Shpg Wt lbs	Item Number
6" - 10" (150-250 mm)	5.5"-10.5" (140-260 mm)	13 psi (0,9 bar)	30 ft. (9 M)	30 psi (2,1 bar)	23.5" (593 mm)	5.25" (133 mm)	1/4"	9	130-410-F
8" - 12" (200-300 mm)	7"-12.5" (178-312 mm)	13 psi (0,9 bar)	30 ft. (9 M)	30 psi (2,1 bar)	26.25" (667 mm)	6.75" (171 mm)	1/4"	16	130-412-F
12" - 18" (300-450 mm)	10.75"-18.5" (273-478 mm)	13 psi (0,9 bar)	30 ft. (9 M)	25 psi (1,7 bar)	31.5" (800 mm)	10.25" (260 MM)	1/4"	29	130-418-F
15" - 30" (375-750 mm)	14.5"-30.5" (368-775 mm)	^**11 psi (0,76 bar)	25 ft. (7,6 M)	25 psi (1,7 bar)	51" (1289 mm)	14" (356 mm)	1/4" & 1/2"	60	130-430-F
20" - 40" (500-1000 mm)	19"-40" (475-1000 mm)	^8.7 psi (0,6 bar)	20 ft. (6,1 M)	22 psi (1,5 bar)	46.25" (1175 mm)	18.5" (470 mm)	1/4" & 1/2"	87	130-440-F
24" - 42" (600-1050 mm)	22.5"-42.5" (570-1080 mm)	^**9 psi (0,62 bar)	20 ft. (6,1 M)	25 psi (1,7 bar)	52" (1320 mm)	22" (560 mm)	1/4" & 1/2"	123	130-442-F
24" - 48" (600-1200 mm)	20.5"-50" (521-1270 mm)	^10 psi (0,7 bar)	23 ft. (7 M)	22 psi (1,5 bar)	74.5" (1892 mm)	20" (508 mm)	1/4" & 1/2"	150	130-448-F
24" - 60" (600-1500 mm)	20.5"-60" (521-1537 mm)	^6 psi (0,41 bar)	14 ft. (4,3 M)	22 psi (1,5 bar)	88" (2235 mm)	19.45" (494 mm)	1/4" & 1/2"	225	130-460-FM
40" - 60" (1000-1500 mm)	38"-60" (965-1537 mm)	^**8.7 psi (0,6 bar)	20 ft. (6,1 M)	25 psi (1,7 bar)	73" (1855 mm)	37.25" (946 mm)	1/4" & 1/2"	248	130-460-F
48" - 72" (1200-1800 mm)	44"-72" (1118-1835 mm)	^6 psi (0,41 bar)	14 ft. (4,3 M)	12 psi (0,83 bar)	100" (2540 mm)	43" (1092 mm)	1/2"	310	130-472-F
54" - 96" (1400-2400 mm)	54"-96" (1400-2450 mm)	^6 psi (0,41 bar)	14 ft. (4,3 M)	11 psi (0,75 bar)	128" (3200 mm)	50" (1270 mm)	1/2"	500	130-496-F
Back Plug									
6" - 10" (150-250 mm)	5.5"-10.5" (140-260 mm)	13 psi (0,9 bar)	30 ft. (9 M)	30 psi (2,1 bar)	23.5" (593 mm)	5.25" (133 mm)	1/4"	7	130-410-B
8" - 12" (200-300 mm)	7"-12.5" (178-312 mm)	13 psi (0,9 bar)	30 ft. (9 M)	30 psi (2,1 bar)	26.25" (667 mm)	6.75" (171 mm)	1/4"	11	130-412-B
12" - 18" (300-450 mm)	10.75"-18.5" (273-478 mm)	13 psi (0,9 bar)	30 ft. (9 M)	25 psi (1,7 bar)	31.5" (800 mm)	10.25" (260 MM)	1/4"	26	130-418-B

See next page for full Pressure Range

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Inflatable, Leak Detector Type, Pipe Sizes: 5.5" to 96", 130-4 Series (Continued)

*Designed for both low-pressure sewer line acceptance tests as well as leak location testing. Leak Detector Plugs can also be used to block flow.*

Plug Size	Pressure Ratings									
	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"
<b>Air Pressure Ratings (PSI)</b>										
15" - 30"	17 (1,2 Bar)	13 (0,9 bar)	13 (0,9 bar)	11 (0,76 bar)	11 (0,76 bar)					
24" - 42"				15 (1,0 bar)	13 (0,9 bar)	11 (0,76 bar)	9 (0,62 bar)			
40" - 60"							15 (1,0 bar)	13 (0,9 bar)	11 (0,76 bar)	8.7 (0,6 bar)
<b>Head Pressure Ratings (Feet of Head)</b>										
15" - 30"	40 (12 M)	30 (9 M)	30 (9 M)	25 (7.6 M)	25 (7.6 M)					
24" - 42"				35 (11 M)	30 (9 M)	25 (7.6 M)	20 (6.1 M)			
40" - 60"							35 (11 M)	30 (9 M)	25 (7.6 M)	20 (6.1 M)

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## Pipe Plugs, Inflatable, Large Flow-Through Bypass, Pipe Sizes: 5.70" to 24.98", 130-6 Series

*Use for gravity bypassing or bypass pumping*

**These plugs serve multiple applications. Great for gravity bypassing or bypass pumping.**

- Large male NPT threaded bypass, top end only
- Equipped with removable 3/8" eye bolt for lifting and lowering with a poly-lift line
- Removable tire valve allows for easy replacement
- Lightweight aluminum bypass
- Multi-size offers great expansion range
- Lightweight aluminum bypass
- Made with Natural Rubber



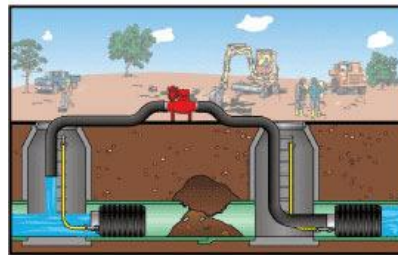
Plug shown with interchangeable flange

### Multi-Size Large Flow-Through Bypass Plugs with Interchangeable Flanges

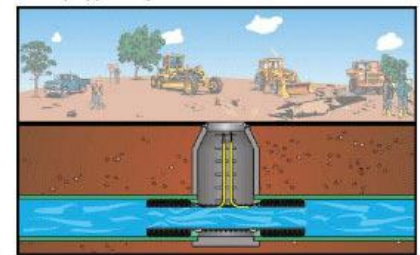
- Multi-size offer great expansion range
- Lightweight aluminum bypass
- Feature interchangeable bypass flange, allowing the same plug to be used for different applications
- Removable tire valve allows for easy replacement
- Made with Natural Rubber

Note: NPT bypass plugs threaded on one end only. Caps/plugs provided on sizes through 6" bypass

Bypass Pumping



Gravity Bypassing



Original Large Flow-Through											
Nominal Size	By-pass Diameter	Range of Use	Maximum Back Pressure*	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain / Eye bolts	Shpg Wt lbs	Item Number	
6"	4" MNPT	5.69"-6.34"	11 psi	25 ft.	30 psi	13.25"	5.38"	1/8" (1)	3/8" (1)	12	130-606-4
(150 mm)		(145 -161 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(337 mm)	(137 mm)				
6" - 10"	4" MNPT	5.75"-10.25"	10 psi	23 ft	40 psi	24.5"	5.65"	1/4" (1)	3/8" (1)	15	130-610-4M
(150-250 mm)		(146-260 mm)	(0,69 bar)	(10 M)	(2,8 bar)	(622 mm)	(146 mm)				
8"	6" MNPT	7.75"-8.45"	11 psi	25 ft.	30 psi	16"	7.5"	1/4" (1)	3/8" (1)	15	130-608-6
(200 mm)		(195-215 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(406 mm)	(191 mm)				
8" - 12"	4" MNPT	7"-12.25"	15 psi	34 ft.	35 psi	26"	6.75"	1/4" (1)	3/8" (1)	22	130-612-4
(200-300 mm)		(178-311 mm)	(1 bar)	(10.5 M)	(2,4 bar)	(660 mm)	(165 mm)				
8" - 10"	4" MNPT	7.25"-10.25"	11 psi	25 ft.	35 psi	14.88"	6.94"	1/4" (1)	3/8" (1)	10	130-610-4
(200-250 mm)		(185-250 mm)	(0,76 bar)	(7.6 M)	(2,4 bar)	(378 mm)	(176 mm)				
10"	8" OD	9.75"-10.46"	11 psi	25 ft.	30 psi	20"	9.13"	1/4" (1)	3/8" (1)	22	130-610-8
(250 mm)		(250-266 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(508 mm)	(232 mm)				
8" - 12"	6" MNPT	7"-12.25"	15 psi	34 ft.	35 psi	26"	6.76"	1/4" (1)	3/8" (1)	23	130-612-6M
(200-300 mm)		(178-311 mm)	(1 bar)	(10.5 M)	(2,4 bar)	(660 mm)	(165 mm)				
10" - 12"	6" MNPT	9.25"-12.25"	11 psi	25 ft	30 psi	17.25"	8.81"	1/4" (1)	3/8" (1)	17	130-612-6
(250-300 mm)		(235-311 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(438 mm)	(224 mm)				
12"	10" non-threaded	11.75"-12.52"	11 psi	25 ft.	30 psi	20"	11.13"	1/4" (1)	3/8" (1)	27	130-612-10
(300 mm)		(300-318 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(508 mm)	(283 mm)				
12" - 15"	6" MNPT	10.62"-15.25"	11 psi	25 ft.	30 psi	17.88"	10.25"	1/4" (1)	3/8" (1)	22	130-615-6
(300-380 mm)		(300-380 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(454 mm)	(260 mm)				
12" - 18"	6" MNPT	11.25"-18.25"	10 psi	23 ft.	25 psi	28"	11"	1/4" (1)	3/8" (1)	42	130-618-6
(300-450 mm)		(286-464 mm)	(0,69 bar)	(10 M)	(1,7 bar)	(711 mm)	(279 mm)				
15"	12" non-threaded	13.9"-15.56"	11 psi	25 ft.	30 psi	20"	13.13"	1/4" (1)	3/8" (1)	31	130-615-12
(380 mm)		(353-395 mm)	(0,76 bar)	(7.6 M)	(2,1 bar)	(508 mm)	(333 mm)				
12" - 18"	8" MNPT	11.25"-18.25"	10 psi	23 ft.	25 psi	28"	11"	1/4" (1)	3/8" (1)	42	130-618-8
(300-450 mm)		(286-464 mm)	(0,69 bar)	(10 M)	(1,7 bar)	(711 mm)	(279 mm)				

Continued Next Page

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*Use for gravity bypassing or bypass pumping*

18" (450 mm)	15" non- threaded	16.88"-18.74" (429-476 mm)	11 psi (0,76 bar)	25 ft. (7.6 M)	30 psi (2,1 bar)	20" (508 mm)	16.13" (410 mm)	1/4" (1)	3/8" (1)	41	130-618-15
21" (525 mm)	18" non- threaded	20.01"-21.81" (508-554 mm)	11 psi (0,76 bar)	25 ft. (7.6 M)	30 psi (2,1 bar)	20" (508 mm)	19.13" (486 mm)	1/4" (1)	3/8" (1)	45	130-621-18
24" (600 mm)	20" non- threaded	22.63"-24.98" (575-634 mm)	11 psi (0,76 bar)	25 ft. (7.6 M)	30 psi (2,1 bar)	20" (508 mm)	21.13" (537 mm)	1/4" (1)	3/8" (1)	51	130-624-20

Multi-Size Large Flow-Through Plugs											
Nominal Size	By-pass Diameter	Range of Use	Maximum Back Pressure*	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain / Eye bolts	Shpg Wt lbs	Item Number	
14" - 21" (375-525 mm)	6" MNPT	13.6"-21.25" (375-525 mm)	10 psi (0,69 bar)	23 ft. (10 M)	25 psi (1,7 bar)	30" (762 mm)	13.25" (337 mm)	1/8" (1) 3/8" (2)	60	130-621-6	
14" - 21" (375-525 mm)	8" MNPT	13.6"-21.26" (375-525 mm)	10 psi (0,69 bar)	23 ft. (10 M)	25 psi (1,7 bar)	30" (762 mm)	13.25" (337 mm)	1/8" (1) 3/8" (2)	60	130-621-8	
14" - 21" (375-525 mm)	10" MNPT	13.6"-21.27" (375-525 mm)	10 psi (0,69 bar)	23 ft. (10 M)	25 psi (1,7 bar)	30" (762 mm)	13.25" (337 mm)	1/8" (1) 3/8" (2)	60	130-621-10	
18" - 24" (450-600 mm)	6" MNPT	16.5"-24.25" (419-616 mm)	10 psi (0,69 bar)	23 ft. (10 M)	22 psi (1,5 bar)	34" (864 mm)	16" (406 mm)	1/8" (1) 1/2" (2)	90	130-624-6	
18" - 24" (450-600 mm)	8" MNPT	16.5"-24.26" (419-616 mm)	10 psi (0,69 bar)	23 ft. (10 M)	22 psi (1,5 bar)	34" (864 mm)	16" (406 mm)	1/8" (1) 1/2" (2)	90	130-624-8	
18" - 24" (450-600 mm)	10" MNPT	16.5"-24.27" (419-616 mm)	10 psi (0,69 bar)	23 ft. (10 M)	22 psi (1,5 bar)	34" (864 mm)	16" (406 mm)	1/8" (1) 1/2" (2)	90	130-624-10	

Large Flow-Through Flange Kit			
Nominal Size	By-pass Diameter	Shpg Wt lbs	Item Number
14" - 21"	6" MNPT	6	924-130-6216
14" - 21"	8" MNPT	7	924-130-6218
18" - 24"	8" MNPT	8	924-130-6248
18" - 24"	10" MNPT	7	924-130-62410

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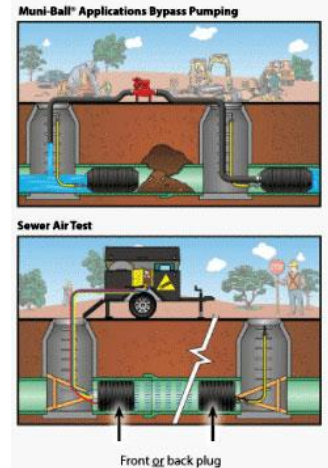
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## Pipe Plugs, Inflatable, Municipal Style, Pipe Sizes: 1.5" to 96", 130-2 Series

*Offers a full bypass to allow testing and monitoring of the piping system.*

The Muni-Ball Plug offers a full bypass allowing both testing and monitoring of the piping system. It is ideal for installation and repair of residential or commercial piping applications. Muni-Ball® products may be used for maintenance of municipal infrastructure, including sanitary and storm sewer pipe systems. They are durable, rugged and are effective on almost any type of pipe. Muni-Balls with flexible bypass are bendable to 90° and are threaded both ends - otherwise, threaded one end only.

Muni-Ball® Plugs are designed with 1/4" Schrader Tire inflation valve and larger diameter Muni-Ball® Plugs include a removable threaded valve, allowing the user to replace with quick disconnect fittings. Muni-Balls with flexible bypass are bendable to 90° and are threaded both ends - otherwise, threaded one end only.



*Inflation controllers, gauges, hoses, etc. on our accessories page*

Nominal Size	By-pass Diameter	Range of Use	Maximum Back Pressure*	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain / Eye bolts	Shpg Wt lbs	Item Number
1.5" (40 mm)	1/8" MNP	1.49"-1.88" (38-48 mm)	22 psi (1,5 bar)	50 ft (15 M)	40 psi (2,8 bar)	3.75" (97 mm)	1.4" (36 mm)	Molded in Valve	Removable Chain	1 130-2015-01
2" (50 mm)	1/8" FNP	1.88"-2.25" (48-57 mm)	22 psi (1,5 bar)	50 ft (15 M)	40 psi (2,8 bar)	6" (152 mm)	1.75" (44 mm)	Molded in Valve	Removable Chain	1 130-202-01
3" (75 mm)	3/4" FNP	2.62"-3.25" (67-83 mm)	22 psi (1,5 bar)	50 ft (15 M)	40 psi (2,8 bar)	8" (203 mm)	2.5" (64 mm)	Molded in Valve	Removable Chain	2 130-203-07
4" (100 mm)	3/4" FNP	3.25"-4.25" (83-108 mm)	22 psi (1,5 bar)	50 ft (15 M)	40 psi (2,8 bar)	8" (203 mm)	3.25" (80 mm)	Molded in Valve	1/4" (1)	2 130-204-07
4" - 6" (100-150 mm)	3/4" FNP	3.75"-6.25" (100-150 mm)	17 psi (1,2 bar)	40 ft (12 M)	35 psi (2,4 bar)	10.75" (273 mm)	3.5" (88 mm)	1/8"	1/4" (1)	3 130-206-07
4" - 8" (100-200 mm)	†3/4" MNP	3.75"-8.25" (100-200mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	30 psi (2,1 bar)	22" (559mm)	3.75" (93 mm)	1/4"	1/4" (1)	9 130-208-07
6" (150 mm)	1 1/2" FNP	4.50"-6.25" (144-159 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	35 psi (2,4 bar)	7" (178 mm)	4.5" (112 mm)	1/8"	1/4" (1)	3 130-206-15
6" - 8" (150-200 mm)	1 1/2" FNP	5.50"-8.25" (133-212 mm)	17 psi (1,2 bar)	40 ft(12 M)	35 psi (2,4 bar)	13" (330 mm)	5" (125 mm)	1/4"	3/8" (1)	6 130-208-15
6" - 12" (150-300 mm)	†1" MNP	5.50"-12.25" (150-300 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	30 psi (2,1 bar)	26.25" (667 mm)	5.25" (133 mm)	1/4"	3/8" (1)	11 130-212-1
8" (200 mm)	3" FNP	7.00"-8.25" (178-210 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	35 psi (2,4 bar)	10" (254 mm)	6.75" (170 mm)	1/4"	1/4" (1)	7 130-208-3
8" - 10" (200-250 mm)	2" FNP	7.00"-10.25" (200-250 mm)	17 psi (1,2 bar)	40 ft (12 M)	30 psi (2,1 bar)	14.5" (368 mm)	6.75" (171 mm)	1/4"	3/8" (1)	10 130-210-2
8" - 12" (200-300 mm)	2" FNP	7.00"-12.25" (200-300 mm)	17 psi (1,2 bar)	40 ft (12 M)	25 psi (1,7 bar)	22" (559 mm)	6.75" (171 mm)	1/4"	3/8" (1)	18 130-212-2
8" - 16" (200-400 mm)	†2" FNP	7.75"-16.25" (200-400 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	30 psi (2,1 bar)	32" (813 mm)	7.5" (194 mm)	1/4"	3/8" (2)	16 130-216-2
10" (250 mm)	3" FNP	9.00"-10.25" (229-260 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	35 psi (2,4 bar)	11.75" (298 mm)	8.75" (222 mm)	1/4"	3/8" (1)	10 130-210-3
12" (300 mm)	3" FNP	10.50"-12.25" (267-311 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	35 psi (2,4 bar)	13.75" (350 mm)	10.25" (260 mm)	1/4"	3/8" (1)	16 130-212-3
12" - 18" (300-450 mm)	4" FNP	10.75"-18.75" (300-450 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	25 psi (1,7 bar)	27.25" (692 mm)	10.5" (267 mm)	1/4"(2)	3/8" (2)	33 130-218-4
12" - 24" (300-600 mm)	†2" MNP	11.25"-24.0" (286-616 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	30 psi (2,1 bar)	40" (1016 mm)	11" (282 mm)	1/4"	3/8" (2)	40 130-224-2
15" - 16" (375-400 mm)	3" FNP	14.0"-16.0" (356-413 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	35 psi (2,4 bar)	19.75" (502 mm)	13.75" (346 mm)	1/4"	3/8" (1)	36 130-216-3

Continued Next Page

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## Pipe Plugs, Inflatable, Municipal Style, Pipe Sizes: 1.5" to 96", 130-2 Series (Continued)

*Offers a full bypass to allow testing and monitoring of the piping system.*

Nominal Size	By-pass Diameter	Range of Use	Maximum Back Pressure*	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Chain / Eye bolts	Shpg Wt lbs	Item Number	
15" - 30" (375-750 mm)	†2 1/2" MNP	14.5"-30.5" (375-750 mm)	<sup>***11</sup> 25 psi (0,76 bar)	25 ft. (7.6 M)	25 psi (1,7 bar)	51" (1289 mm)	14" (356 mm)	1/4" & 1/2"	3/8" (4)	69	130-230-25
18" (450 mm)	2" FNP	17.5"-19.5" (445-504 mm)	13 psi (0,9 bar)	30 ft. (9.1 M)	25 psi (1,7 bar)	24.75" (629 mm)	17" (429 mm)	1/4"	1/2" (2)	83	130-218-2
20" - 40" (500-1000 mm)	†2" MNP	19"-40" (475-1000mm)	<sup>^</sup> 8.7 psi (0,6 bar)	20 ft. (6.1 M)	22 psi (1,5 bar)	46.25" (1175 mm)	18.5" (470 mm)	1/4" & 1/2"	1/2" (2)	88	130-240-2
20" - 40" (500-1000mm)	†4" MNP	19"-40" (475-1000mm)	<sup>^</sup> 8.7 psi (0,6 bar)	20 ft. (6.1 M)	22 psi (1,5 bar)	46.25" (1175 mm)	18.5" (470 mm)	1/4" & 1/2"	1/2" (2)	95	130-240-4
20" - 40" (500-1000mm)	†6" MNP	19"-40" (475-1000mm)	<sup>^</sup> 8.7 psi (0,6 bar)	20 ft. (6.1 M)	22 psi (1,5 bar)	46.25" (1175 mm)	18.5" (470 mm)	1/4" & 1/2"	1/2" (2)	106	130-240-6
21" (525 mm)	4" FNP	19.0"-21.5" (479-543 mm)	13 psi (0,9 bar)	30 ft. (6.1 M)	25 psi (1,7 bar)	26" (660 mm)	18.25" (462 mm)	1/4"	1/2" (2)	92	130-221-4
24" - 48" (600-1200 mm)	†4" MNP	20.5"-50" (600-1200 mm)	<sup>***10</sup> psi (0,7 bar)	23 ft. (7 M)	22 psi (1,5 bar)	76" (1930 mm)	20" (508 mm)	1/2"	5/8" (3)	150	130-248-4
24" - 48" (600-1200 mm)	†6" MNP	20.5"-50" (600-1200 mm)	<sup>***10</sup> psi (0,7 bar)	23 ft. (7 M)	22 psi (1,5 bar)	76" (1930 mm)	20" (508 mm)	1/2"	5/8" (3)	153	130-248-6
24" - 60" (600-1500 mm)	†4" MNP	20.5"-60.5" (600-1525 mm)	<sup>***6</sup> psi (0,41 bar)	14 ft. (4.3 M)	22 psi (1,5 bar)	88" (2235 mm)	19.5" (495 mm)	1/4" & 1/2"	5/8" (3)	205	130-260-4MM
40" - 60" (1000-1500 mm)	†4" MNP	38"-60" (1000-1525 mm)	<sup>***8.7</sup> psi (0,62 bar)	20 ft. (6.1 M)	25 psi (1,7 bar)	73" (1855 mm)	37.25" (946 mm)	1/4" & 1/2"	1/2" (4)	350	130-260-4M
24" - 60" (600-1500 mm)	†6" MNP	20.5"-60.5" (600-1525 mm)	<sup>***6</sup> psi (0,41 bar)	14 ft. (4.3 M)	22 psi (1,5 bar)	88" (2235 mm)	19.5" (495 mm)	1/4" & 1/2"	5/8" (3)	205	130-260-6
48" - 72" (1200-1800 mm)	†4" MNP	44"-72" (1118-1835 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	12 psi (0,83 bar)	100" (2540 mm)	43" (1092 mm)	1/2" (2)	5/8" (3)	298	130-272-4
48" - 72" (1200-1800 mm)	†6" MNP	44"-72.25" (1118-1835 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	12 psi (0,83 bar)	93" (2632 mm)	43.75" (1111 mm)	1/2" (2)	5/8" (3)	298	130-272-6
48" - 72" (1200-1800 mm)	†8" MNP	44"-72.25" (1118-1835 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	12 psi (0,83 bar)	93" (2632 mm)	43.75" (1111 mm)	1/2" (2)	5/8" (3)	298	130-272-8
54" - 96" (1400-2400 mm)	†4" MNP	54"-96" (1400-2450 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	11 psi (0,75 bar)	128" (3200 mm)	50" (1270 mm)	1/2" (2)	5/8" (3)	500	130-296-4
54" - 96" (1400-2400mm)	†6" MNP	54"-96" (1400-2450 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	11 psi (0,75 bar)	135" (3429mm)	46" (1169mm)	1/2" (2)	3/4" (3)	500	130-296-6
54"-96" (1400-2450 mm)	†8" Flange	54"-96" (1400-2450 mm)	<sup>^</sup> 6 psi (0,41 bar)	14 ft. (4.3 M)	11 psi (0,75 bar)	140" (3556mm)	46" (1169mm)	1/2" (2)	3/4" (3)	510	130-296-8

\*\* See chart next page for full pressure range.

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## Pipe Plugs, Inflatable, Municipal Style, Pipe Sizes: 1.5" to 96", 130-2 Series (Continued)

*Offers a full bypass to allow testing and monitoring of the piping system.*

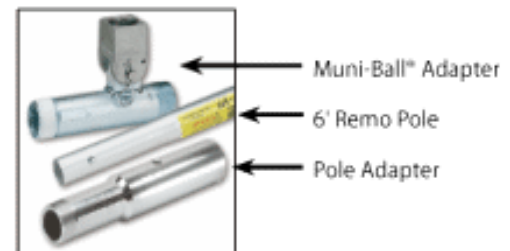
Plug Size	Air Pressure Ratings									
	PIPE DIAMETER									
	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"
15"-30"	17 psi (1,2 bar)	13 psi (0,9 bar)	13 psi (0,9 bar)	11 psi (0,76 bar)	11 psi (0,76 bar)					
24"-42"				15 psi (1,0 bar)	13 psi (0,9 bar)	11 psi (0,76 bar)	9 psi (0,62 bar)			
24"-48"				15 psi (1,0 bar)	13 psi (0,9 bar)	12 psi (0,83 bar)	11 psi (0,76 bar)	10 psi (0,7 bar)		
30"-60"					15 psi (1,0)	15 psi (1,0)	15 psi (1,0)	13 psi (0,9 bar)	12 psi (0,83 bar)	10 psi (0,7 bar)
40"-60"							15 psi (1,0)	13 psi (0,9 bar)	11 psi (0,76 bar)	8.7 psi (0,6 bar)

Plug Size	Head Pressure Ratings									
	PIPE DIAMETER									
	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"
15"-30"	40 ft. (12 M)	30 ft. (9.1 M)	30 ft. (9.1 M)	25 ft. (7.6 M)	25 ft. (7.6 M)					
24"-42"				35 ft. (11 M)	30 ft. (9.1 M)	25 ft. (7.6 M)	20 ft. (6.1 M)			
24"-48"				35 ft. (11 M)	30 ft. (9.1 M)	28 ft. (8.4 M)	25 ft. (7.6 M)	23 ft. (7 M)		
30"-60"					35 ft. (11 M)	35 ft. (11 M)	30 ft. (9.1 M)	28 ft. (8.4 M)	23 ft. (7 M)	
40"-60"							35 ft. (11 M)	30 ft. (9.1 M)	25 ft. (7.6 M)	20 ft. (6.1 M)

^Rupture Disk †Flexible Bypass MNP - Male National Pipe Thread FNP - Female National Pipe Thread



Remote Placement Accessories			
Description	Shpg Wt lbs	Item Number	
6' Remote Placement Pole	4	924-1307-72	
Remote Placement Pole Adapter (1 1/4" M NPT)	1	924-1307-0125	
1 1/2" Remote Placement Municipal Style Muni-Ball® Adapter	4	924-1307-015	
2" Remote Placement Municipal Style Muni-Ball® Adapter	4	924-1307-02	
1" - 1 1/2" Remote Placement Adapting Bushing	1	924-1307-01015	
3/4" - 1 1/2" Remote Placement adapters - include 3/4" M NPT nipple and 3/4" F - 1-1/2" F NPT Bushing	1	924-1307-007515	
2" - 1 1/2" Remote Placement Reducer Bushing	1	924-1307-02015	
3" - 2" Remote Placement Reducer Bushing	2	924-1307-0302	



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**Pipe Plugs, Inflatable, Municipal Style Test, Kevlar® Reinforced Rubber With By-Pass,  
Pipe Sizes: 3" to 72", 136-0 Series**

*Pneumatic molded rubber plugs for testing residential and commercial plumbing systems*

These plugs are reinforced with Kevlar® tire cording and molded of special NR-SBR rubber. Due to their light weight and short length, these plugs are easy to handle even in large diameter sizes. All plugs are equipped with a 1/4" male quick-connect inflation port. Reinforcement sleeves are available for heavy duty use. They are available with a standard and large by-pass.

Large By-Pass Plugs are used primarily for sewage flow. The optional threaded aluminum by-pass flange is field replaceable and by-pass sizes can usually be resized to suit needs. Optional field replaceable rubber sleeve and non-corrosive, rigid PPH by-pass lining.



Removable flanges included

Pipe Diameter		By-Pass Size in npt <sup>^</sup>	Plug Diameter		Required Inflation psig	**Pipeline Max. Head		Valve Type in QC	Eye Bolt Size		Deflated Length		Shpg Wt lbs	Item Number		
Maximum in	Minimum in		in	mm		ft	m		in	mm	in	mm				
<b>Multi-Size Municipal Plugs With Standard By-Pass</b>																
<b>1/2", 1" or 2" bypass diameters threaded both ends, 4" bypasses threaded the top only</b>																
6	153	3	76	1/2 F	2.7	68	36	34	10.4	1/4 M	0.24	6	13.75	350	4	136-006-8
8	203	3.63	92	1 F	3.5	89	36	34	10.4	1/4 M	0.24	6	23	584	8	136-008-81
12	305	5.63	143	1 F	5.5	140	36	34	10.4	1/4 M	0.32	8	25	635	12	136-012-81
16	406	7.5	190	2 F	7.38	187	36	34	10.4	1/4 M	0.32	8	25	635	20	136-016-8215
21	533	10.75	273	2 F	10.5	267	36	34	10.4	1/4 M	0.32	8	26	660	30	136-021-82
24	610	13	330	2 F	12.5	318	36	34	10.4	1/4 M	0.39	10	35	889	40	136-024-82
30	762	14	356	2 F	13.5	343	36	34	10.4	1/4 M	0.39	10	44	1118	50	136-030-82
30	762	15	381	4 F	13.75	350	22	16	4.9	1/4 M	0.39	10	55	1397	84	136-030-84
40	1016	19	483	2 F	18.5	470	22	16	4.9	1/4 M	0.39	10	48	1219	80	136-040-82
48	1219	23	584	4 F	23	584	22	16	4.9	1/4 M	0.39	10	64	1626	113	136-048-84
60	1524	25	635	4 F	23.5	597	15	13	4	1/4 M	0.39	10	97	2464	180	136-060-84
72	1828	32	812	4 F	23.6	599	15	13	4	1/4 M	0.39	10	116.5	2960	233	136-072-84

Continued next page

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**Pipe Plugs, Inflatable, Municipal Style Kevlar® Reinforced Rubber With By-Pass,  
Pipe Sizes: 3" to 72", 136-0 (Continued)**

*Pneumatic molded rubber plugs for testing residential and commercial plumbing systems*

Pipe Diameter				By-Pass Size in npt <sup>^</sup>	Plug		Required		**Pipeline		Valve Type	Eye Bolt Size		Deflated Length		Shpg Wt lbs	Item Number
Maximum in	Minimum mm	in	mm		Diameter in	mm	Inflation psig	ft	Max. Head m	in QC		in	mm	in	mm		
<b>Multi-Size Municipal Plugs With Large By-Pass Threaded only on the top</b>																	
6	153	4	102	2 M	3.8	97	36	34	10.4	1/4 M	0.24	6	24	610	6	136-006-82	
10	254	6	153	2 M	5.8	148	29	27	8.2	1/4 M	0.24	6	24	610	11	136-010-82	
10	254	6	153	3 M	5.8	148	29	27	8.2	1/4 M	0.24	6	24	610	11	136-010-83	
12	305	6	153	2 M	5.6	143	22	16	4.9	1/4 M	0.32	8	26	661	10	136-012-8207	
12	305	8	203	2 M	7.8	199	29	27	8.2	1/4 M	0.24	6	27	686	19	136-012-8212	
16	406	7.5	191	2 M	7.25	185	22	16	4.9	1/4 M	0.24	6	31	788	17	136-016-8207	
16	406	7.5	191	4 M	7.25	185	22	16	4.9	1/4 M	0.24	6	31	788	17	136-016-84	
21	533	12	305	4 M	11.6	295	29	27	8.2	1/4 M	0.32	8	34	864	41	136-021-84	
21	533	12	305	6 M	11.6	295	29	27	8.2	1/4 M	0.32	8	34	864	41	136-021-86	
24	610	14	356	4 M	12.7	323	22	16	4.9	1/4 M	0.39	10	39	991	44	136-024-84	
24	610	14	356	6 M	12.5	318	22	16	4.9	1/4 M	0.32	8	39	991	47	136-024-86	
40	1016	20	508	4 M	18.6	473	22	16	4.9	1/4 M	0.39	10	53	1347	92	136-040-84	
40	1016	20	508	6 M	18.6	473	22	16	4.9	1/4 M	0.39	10	53	1347	92	136-040-86	
40	1016	20	508	8 M*	18.6	473	22	16	4.9	1/4 M	0.39	10	53	1347	92	136-040-88	
48	1219	24	610	6 M	22.6	574	22	16	4.9	1/4 M	0.47	12	57	1450	143	136-048-86	
48	1219	24	610	8 M*	22.6	574	22	16	4.9	1/4 M	0.47	12	57	1450	155	136-048-88	
60	1524	30	762	6 M	23.6	599	15	13	4	1/4 M	0.47	12	90.5	12300	198	136-060-86	
60	1524	30	762	8 M*	23.6	599	15	13	4	1/4 M	0.47	12	90.5	2300	214	136-060-88	
72	1828	32	812	6 M	23.6	599	15	13	4	1/4 M	0.47	12	116.5	2960	276	136-072-86	
72	1828	32	812	8 M*	23.6	599	15	13	4	1/4 M	0.47	12	116.5	2960	295	136-072-88	

\*Most of these by-pass (flow-thru) plugs come complete with standard schedule 40 PVC caps (except 8"). 8" by-pass plugs requires schedule in80 PVC caps and are not included for economical reasons. Order 8" caps separately if required (extra charge \$150.00). Plug includes the removable flange.

<sup>^</sup>Plugs with a 1/2" to 2" FNPT bypass are threaded both ends, all other plugs only inflation end.

See 936-series for protective sleeves.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

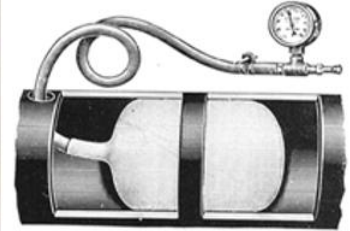
Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
email: sales@PetersenProducts.com

## Pipe Plugs, Inflatable, Low Pressure Gas Type, Pipe Sizes: 1" to 48", 154 Series

*100% Polyester fabric cover, nitrile bladder*

Gas plugs consists of an inner bladder made of a high quality nitrile encased in a 100% Polyester fabric cover. The gauge of rubber and polyester vary with the size of the plug. Each size plug is expertly made to insure a snug fit and good shut-off when inflated. An inflation valve is standard with each bag: a pressure gauge is recommended and can be furnished at an additional cost.

Pipe Diameter Nominal	Size of Tap Hole		Maximum Pressure**				Shpg		Item Number	
	in	mm	psig	bar	ft	m	Port	Wt lbs		
2	51	1	25	15	1.03	1	0.3	tire	1	154-002-G
3	76	1	25	15	1.03	1	0.3	tire	1	154-003-G
4	102	1.25	32	15	1.03	1	0.3	tire	1	154-004-G
6	152	1.5	38	15	1.03	1	0.3	tire	1	154-006-G
8	203	2	51	12	0.83	1	0.3	tire	2	154-008-G
10	254	2	51	10	0.69	0.75	0.23	tire	2	154-010-G
12	305	2.5	64	8	0.55	0.75	0.23	tire	2	154-012-G
14	356	2.5	64	6	0.41	0.5	0.15	tire	3	154-014-G
16	406	3	76	6	0.41	0.5	0.15	tire	5	154-016-G
18	457	3	76	5	0.34	0.5	0.15	tire	6	154-018-G
20	508	4	102	5	0.34	0.5	0.15	tire	7	154-020-G
24	610	4	102	3	0.21	0.5	0.15	tire	13	154-024-G
30	762	5	127	3	0.21	0.25	0.08	tire	18	154-030-G
36	914	5	127	3	0.21	0.25	0.08	tire	23	154-036-G
42	1067	6	152	1	0.07	0.25	0.08	tire	26	154-042-G
48	1219	6	152	1	0.07	0.25	0.08	tire	35	154-048-G



Left - end fitting detail

Deflated diameter is the diameter of pipe that plug may be inserted through to plug a pipeline.

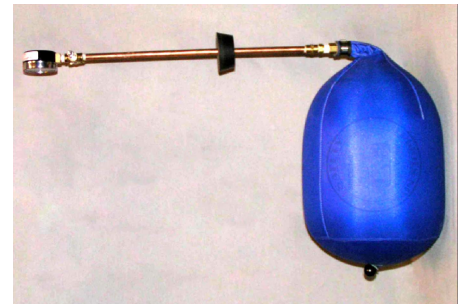
**May not provide a perfect seal for pipeline testing without customization**

### Directional Gas Plugs 3" to 24" Diameter

The construction of the Directional Gas Plug is similar to traditional plugs but are made with a gum rubber bladder and have a nylon cover. These plugs have an internal, curved flexible nylon tube that enables the user to direct the gas bag either upstream or downstream. This directional capability makes for easier insertion into the main.

Includes brass stem, gauge, petcock, valve, and black rubber plug .

Pipe Diameter Nominal	Size of Tap Hole		Maximum Pressure**				Shpg		Item Number	
	in	mm	psig	bar	ft	m	Port	Wt lbs		
3	76	1	25	10	0.69	0.75	0.23	tire	1	154-003-DR
4	102	1	25	9	0.62	0.75	0.23	tire	1	154-004-DR
6	152	1.25	32	7	0.48	0.5	0.15	tire	1	154-006-DR
8	203	2	51	6	0.41	0.5	0.15	tire	2	154-008-DR
10	254	2	51	4	0.28	0.25	0.08	tire	2	154-010-DR
12	305	2.5	64	4	0.28	0.25	0.08	tire	2	154-012-DR
16	406	3	76	3	0.21	0.25	0.08	tire	5	154-016-DR
20	508	4	102	2	0.14	0.25	0.08	tire	7	154-020-DR
24	610	4	102	2	0.14	0.25	0.08	tire	13	154-024-DR



Gas main line pressure must not exceed 12 in. w.c.  
Do not inflate plugs over the above pressures.

#### Pressure Gauge for Gas Plugs



0 to 30 psi, 1/8" npt fitting 1 930-7163

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Inflatable, Stack Test Rubber, Pipe Sizes: 1.5" to 6", 130-1 Series

*Designed for stack testing of drain, waste, and vent plumbing systems*

These plugs thread into a standard test tee. Inflate the bladder and introduce water into the pipe. When testing is completed, deflate the plug and the water will travel down the pipe, eliminating test water backslash.



- Works in both plastic and cast-iron test tees
- Natural rubber body provides a leak-free seal
- High impact ABS threads for maximum durability
- Removable/replaceable tire inflation valve fitting
- Always block plugs when conducting air tests.

Nominal Size		Required Inflation psig	**Pipeline Maximum Allowable Back Pressure				Deflated		Shpg Wt lbs	Item Number		
in	mm		Head Pressure		Air Pressure		Length	Dia				
			ft	m	psi	bar	in	mm	in	mm		
1.5	40	30	30	9.1	13	0.9	4.75	121	1.5	38	1	130-1015
2	50	35	30	9.1	13	0.9	5.81	150	2.38	60	1	130-1020
3	75	35	30	9.1	13	0.9	7.38	188	3.5	89	1	130-1030
4	100	35	30	9.1	13	0.9	8.5	215	4.5	115	2	130-1040
6	150	25	30	9.1	13	0.9	11	280	6.63	168	4	130-1060

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**Petersen Products Company**

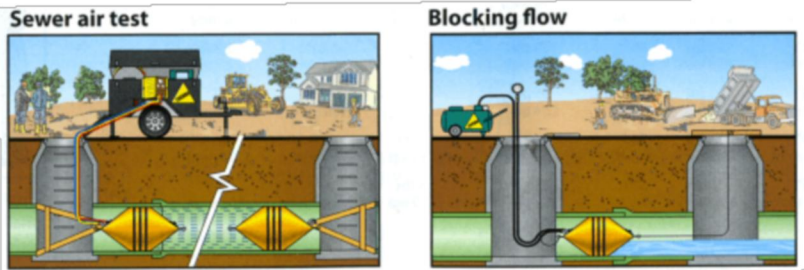
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## Pipe Plugs, Inflatable, Pillow Style Muni-Balls, Pipe Sizes: 15" to 66", 130-9 Series

*Great for sewer flow and sewer air testing*

Petersen's Pillow-Style Test-Ball® and Muni-Ball® plugs are great for blocking sewer flow and can also be used for sewer air testing. Made from heavy-duty elastic urethane, these plugs are lightweight, flexible, chemical and petroleum-resistant, and will fit through small-diameter openings. Pillow-style plugs can be tethered with the attached tether bars, and will work in all types of pipe, including ductile iron sizes.

- Equipped with a special 30' inflation hose, 30' read-back line, and gauge
- A repair kit is available to fix small tears and punctures
- Muni-Ball® style plugs feature a bypass with threaded nipples on both ends
- Made with heavy-duty Urethane rubber



Nominal Size	Size Range of Use	Maximum Back Pressure**	Inflation Pressure	Deflated Length	Deflated Diameter	Inflation Thread	Shpg Wt lbs	Item Number
Pillow Style Test-Ball (without by-pass)								
*15" (375 mm)	14.7"-15.5" (373-394 mm)	15 psi (1 bar)	35 ft. (11 M) 35 psi (2,4 bar)	43" (110 mm)	12" (305 mm)	1/4" (1)	15	130-915
*18" (450 mm)	17.8"-18.8" (451-477 mm)	15 psi (1 bar)	35 ft. (11 M) 30 psi (2,1 bar)	43" (110 mm)	12" (305 mm)	1/4" (1)	20	130-918
*20" (500 mm)	19.6"-20.7" (498-526 mm)	13 psi (0,9 bar)	30 ft. (9.1 M) 18 psi (1,24 bar)	43" (110 mm)	12" (305 mm)	1/4" (1)	21	130-920
*21" (525 mm)	20.6"-21.8" (523-554 mm)	13 psi (0,9 bar)	30 ft. (9.1 M) 18 psi (1,24 bar)	43" (110 mm)	12" (305 mm)	1/4" (1)	21	130-921
*24" (600 mm)	235"-25.2" (598-641 mm)	11 psi (0,76 bar)	25 ft. (7.6 M) 18 psi (1,24 bar)	66" (1700 mm)	12" (305 mm)	1/4" (1)	32	130-924
*27" (700 mm)	26.5"-28.2" (672-717 mm)	11 psi (0,76 bar)	25 ft. (7.6 M) 18 psi (1,24 bar)	66" (1700 mm)	12" (305 mm)	1/2" (1)	35	130-927
30" (750 mm)	29.4"-31.25" (747-794 mm)	11 psi (0,76 bar)	25 ft. (7.6 M) 18 psi (1,24 bar)	66" (1700 mm)	12" (305 mm)	1/2" (1)	40	130-930
33" (850 mm)	32.3"-34.25" (819-870 mm)	8.7 psi (0,61 bar)	20 ft. (6.1 M) 13 psi (0,9 bar)	95" (2413 mm)	12" (305 mm)	1/2" (1)	41	130-933
36" (900 mm)	35.3"-37.5" (896-953 mm)	8.7 psi (0,61 bar)	20 ft. (6.1 M) 13 psi (0,9 bar)	95" (2413 mm)	12" (305 mm)	1/2" (1)	60	130-936
42" (1100 mm)	41.2"-43.7" (1045-1111 mm)	7.8 psi (0,55 bar)	18 ft. (5.5 M) 12 psi (0,83 bar)	95" (2413 mm)	12" (305 mm)	1/2" (1)	58	130-942

Continued next page

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 email: sales@PetersenProducts.com



**Pipe Plugs, Inflatable, Pillow Style Muni-Balls, Pipe Sizes: 15" to 66", 130-9 Series (Continued)**

*Great for sewer flow and sewer air testing*

48" (1200 mm)	47.04"-50" (1195-1270 mm)	5.6 psi (0,4 bar)	13 ft. (4 M)	12 psi (0,83 bar)	95" (2413 mm)	12" (305 mm)	1/2" (1)	62	130-948
54" (1400 mm)	52.92"-56" (1344-1422 mm)	5.6 psi (0,4 bar)	13 ft. (4 M)	10 psi (0,7 bar)	95" (2413 mm)	16" (381 mm)	1/2" (1)	64	130-954
60" (1500 mm)	58.8"-62" (1494-1575 mm)	5.6 psi (0,4 bar)	13 ft. (4 M)	10 psi(0,7 bar)	126"(3200 mm)	16"(381 mm)	1/2" (1)	86	130-960
66" (1700 mm)	64.7"-68" (1643-1727 mm)	3.5 psi (0,24 bar)	8 ft. (2.4 M)	8 psi (0,55 bar)	126" (3200 mm)	16" (381 mm)	1/2" (1)	87	130-966

\*15"- 27" pillow style plugs have standard snifter valve air connection.  
 Large single-size plugs are not suitable for leak location or vacuum testing.  
 Always block plugs when conducting air tests.

Custom sizes also available

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## Pipe Plugs, Inflatable, Pillow Type Municipal Style Kevlar® Reinforced With & W/) By-Pass, Pipe Sizes: 24" to 108", 135-0 Series

*These plugs are ideal for large diameter pipes or where access to the pipe is limited*

Pillow Plugs are ideal for large pipes when access is limited. When deflated they may be folded up and inserted through a standard manhole and then inflated. Standard sizes range from 2' up to 9' diameter, with or without by-pass for testing or flow through. A Pillow Plug can generally be inserted through an opening 1/3 the diameter of the pipe.

Made of Kevlar® reinforced \*NR-SBR rubber compound.

\* NR = Isoprene rubber, natural. SBR = Styrene-butadiene rubber.

Equipped with standard 1/4" quick connect coupler.



Pipe Diameter		By-Pass Size		Maximum Inflation		Pipeline Max Head		Deflated Width		Deflated Length		Shpg Wt lbs	Item Number	
in	mm	in	mm	psig	bar	ft	m	in	mm	in	mm			
<b>Multi-Size Pneumatic Pillow Shape Sealing Plugs Without By-Pass</b>														
40	1000	24	600		14.5	1	22.7	6.9	36.4	924	84	2133	40	135-040
48	1200	32	800		13	0.9	19.4	5.9	49.2	1249	100	2540	64	135-048
64	1600	48	1200		11.5	0.8	16.2	4.9	73.2	1859	128	3251	112	135-064
80	2000	64	1600		8.6	0.6	13	4	98	2489	160	4064	189	135-080
88	2235	75	1905		7.2	0.5	9.8	3	115	2921	192	4876	396	135-088
96	2438	96	2438		7.2	0.5	9.8	3	147	3734	221	5613	548	135-096
108	2743	108	2743		5.8	0.4	9.8	3	166	4216	264	6706	726	135-108
<b>Multi-Size Pneumatic Pillow Shape Sealing Plugs With By-Pass</b>														
40	1000	24	600	2"	14.5	1	22.7	6.9	36.8	934	76	1900	51	135-040-8
48	1200	32	800	2"	13	0.9	19.4	5.9	50	1270	92	2300	75	135-048-8
64	1600	48	1200	2"	11.5	0.8	16.2	4.9	74.8	1899	114	2850	125	135-064-8
80	2000	64	1600	2"	8.6	0.6	13	4	100	2540	148	3700	202	135-080-8
88	2235	75	1905	2"	7.2	0.5	9.8	3	115	2921	192	4876	425	135-088-8
96	2438	96	2438	2"	7.2	0.5	9.8	3	147	3734	221	5613	576	135-096-8
108	2743	108	2743	2"	5.8	0.4	9.8	3	166	4216	264	6706	755	135-108-8

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## Flow-Thru and Flexibility Speeds Point Repair

Flexibility allows Carrier Packer to navigate through manhole into pipeline; then inflate with air, hot water or steam.



- **High Strength Flexible Materials:** Inflatable Line Stop™ MULTI-FLEX® Packers are made from very high strength flexible woven and non-woven Nylon reinforced EPDM covers. Connections are available for air, hot water, steam inflation, and recirculation.
- **Smooth, Even Relining:** The PETERSEN® Packer has a fixed inflated diameter independent of the pipeline. This allows for a smooth repair with a constant diameter unlike rubber packers that generally follow the contour of the broken area of the pipeline causing an irregular I.D. Repair.
- **Air, Hot Water or Steam:** Packers can be fitted with connections for use with circulating hot water, steam or ambient cure with air or water.
- **Easy Installation and Removal:** Small deflated diameter, light weight, and flexibility allow installation of long MULTI-FLEX® Packers through a small opening or manhole. Removal after deflating is just as easy.
- **Flow-Thru:** The by-pass design allows flow through the MULTI-FLEX® Packer during repairs.
- **Light Weight:** PETERSEN® MULTI-FLEX® Packers are much lighter than molded rubber packers for easy placement.

Packers/Carriers Without By-Pass															
Pipe Diameter		Maximum Inflation		**Pipeline Max. Head		Minimum Contact		Inflation Port*		Deflated Length		Shpg Wt	Item		
in	mm	in	mm	psig	bar	ft	m	ft	in	npt	in	mm	lbs	Number	
4	102	3.5	89	25	1.7	28	8.8	6	3/4	M - 1/4	QC	84	2134	24	118-004-06
6	152	5	127	25	1.7	28	8.8	6	1	M - 1/4	QC	86	2184	26	118-006-06
8	203	5	127	25	1.7	28	8.8	8	2	M - 1/4	QC	112	2845	29	118-008-08
10	254	5	127	25	1.7	28	8.8	8	2	M - 1/4	QC	114	2896	32	118-010-08
12	305	5	127	25	1.7	28	8.8	8	2	M - 1/4	QC	124	3150	35	118-012-08
15	381	5	127	25	1.7	28	8.8	8	2	M - 1/2	QC	127	3226	40	118-015-08
16	406	5	127	25	1.7	28	8.8	8	2	M - 1/2	QC	128	3251	41	118-016-08
18	457	5	127	25	1.7	28	8.8	8	2	M - 1/2	QC	130	3302	47	118-018-08
20	508	6	152	25	1.7	28	8.8	8	2	M - 1/2	QC	132	3352	52	118-020-08
24	610	6	152	25	1.7	28	8.8	8	3	M - 1/2	QC	136	3454	62	118-024-08
27	686	7	178	22	1.5	25	7.7	8	3	M - 1/2	QC	139	3531	76	118-027-08
30	762	7	178	20	1.4	23	7	8	3	M - 1/2	QC	142	3607	89	118-030-08
33	838	7	178	20	1.4	23	7	8	3	M - 1/2	QC	145	3683	94	118-033-08
36	914	8	203	18	1.2	20	6.3	8	3	M - 1/2	QC	148	3759	117	118-036-08
42	1067	8	203	14	1	16	4.9	8	3	M - 1/2	QC	154	3912	138	118-042-08
48	1219	10	254	10	0.7	11	3.5	8	3	M - 1/2	QC	166	4216	182	118-048-08

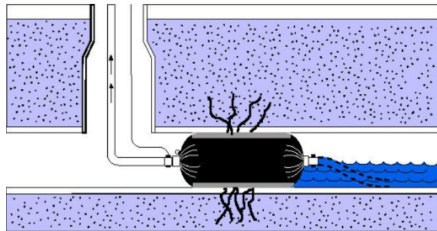
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## Flow-Thru and Flexibility Speeds Point Repair



Packers/Carriers With By-Pass (Flow-Thru)														
Pipe Diameter		By-Pass		Maximum Connection	Maximum Inflation		**Pipeline Max. Head		Minimum Contact	Inflation Port*	Deflated Length		Shpg Wt lbs	Item Number
in	mm	in	mm		psig	bar	ft	m			in	npt		
4	102	3.5	89	2 M	25	1.7	28	8.8	6	1/4 F - 1/4 QC	84	2134	28	119-004-06
6	152	5	127	2 M	25	1.7	28	8.8	6	1/4 F - 1/4 QC	86	2184	35	119-006-06
8	203	6	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	112	2845	60	119-008-08
10	254	5	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	114	2896	64	119-010-08
12	305	5	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	124	3150	70	119-012-08
15	381	5	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	127	3226	80	119-015-08
16	406	5	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	128	3251	82	119-016-08
18	457	5	127	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	130	3302	92	119-018-08
20	508	6	152	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	132	3352	102	119-020-08
24	610	8	203	3 M	25	1.7	28	8.8	8	3/8 F - 1/2 QC	136	3454	112	119-024-08
27	686	10	254	3 M	22	1.5	25	7.7	8	3/8 F - 1/2 QC	139	3531	132	119-027-08
30	762	10	254	3 M	20	1.4	23	7	8	3/8 F - 1/2 QC	142	3607	151	119-030-08
33	838	10	254	3 M	20	1.4	23	7	8	3/8 F - 1/2 QC	145	3683	158	119-033-08
36	914	12	305	3 M	18	1.2	20	6.3	8	3/8 F - 1/2 QC	148	3759	210	119-036-08
42	1067	12	305	3 M	14	1	16	4.9	8	3/8 F - 1/2 QC	154	3912	460	119-042-08
48	1219	15	381	3 M	10	0.7	11	3.5	8	3/8 F - 1/2 QC	166	4216	526	119-048-08

Custom configurations also available

Hot Water or Steam Packer: Maximum 220 degree F, Add 25% to price and add Suffix "S" to item number

Grout Packer: Add suffix "G" - Call for pricing

\*QC Quick connection.

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*Deflates to small flexible size for easy insertion*

*Other Sizes and Configurations also available*

- **High Strength Flexible Materials:** Inflatable Line Stop™ MULTI-FLEX® Packers are made from very high strength Nylon reinforced EPDM. Connections are available for air, hot water, steam inflation, and recirculation.
- **Smooth, Even Relining:** The PETERSEN® Packer has a fixed inflated diameter independent of the pipeline. This allows for a smooth repair with a constant diameter unlike rubber packers that generally follow the contour of the broken area of the pipeline causing an irregular I.D. repair.
- **Air, Hot Water or Steam:** Packers can be fitted with connections for use with circulating hot water, steam or ambient cure with air or water.
- **Easy Installation and Removal:** Small deflated diameter, light weight, and flexibility allow installation of long MULTI-FLEX® Packers through a small opening. Removal after deflating is just as easy.
- **Flow-Thru:** The by-pass design allows flow through the MULTI-FLEX® Packer during repairs.
- **Light Weight:** PETERSEN® MULTI-FLEX® Packers are much lighter than molded rubber packers for easy placement.



Main Line				Lateral Line				Maximum Inflation	Pipeline Max. Head*	Inflation Port (QC)	Shpg Wt lbs	Item Number		
Diameter in	Contact Length mm	Diameter in	Contact Length mm	Diameter in	Contact Length mm	psig	bar						ft	m
<b>90 Degree Lateral</b>														
4	102	16	406	2	51	16	406	25	1.7	28	8.8	1/4"	6	116-0402-901616
6	152	18	457	4	102	24	610	25	1.7	28	8.8	1/4"	8	116-0604-901824
8	203	24	610	4	102	32	812	25	1.7	28	8.8	1/4"	10	116-0804-902432
10	254	40	1016	4	102	40	1016	25	1.7	28	8.8	1/4"	12	116-1004-904040
12	305	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	14	116-1206-904848
18	457	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	18	116-1806-904848
24	610	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	20	116-2406-904848
<b>45 Degree Lateral</b>														
4	102	16	406	2	51	16	406	25	1.7	28	8.8	1/4"	6	116-0402-451616
6	152	18	457	4	102	24	610	25	1.7	28	8.8	1/4"	8	116-0604-451824
8	203	24	610	4	102	32	812	25	1.7	28	8.8	1/4"	10	116-0804-452432
10	254	40	1016	4	102	40	1016	25	1.7	28	8.8	1/4"	12	116-1004-454040
12	305	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	14	116-1206-454848
18	457	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	18	116-1806-454848
24	610	48	1219	6	152	48	1219	25	1.7	28	8.8	1/4"	20	116-2406-454848

Advise position of lateral on main line

Nylon loops on each of three ends for positioning

\*QC Quick connection.

Inflation controllers, gauges, hoses, etc. on our accessories page

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Packer Carriers, Inflatable Point Repair, Pipe Sizes: 4" to 12", 130-5 Series

*Well suited for most point repair systems*

These Point Repair Carriers are well-suited for most point repair systems. Available for pipe sizes 4" to 12", these carriers are known for both their durability and reliability. Custom lengths are available upon request.

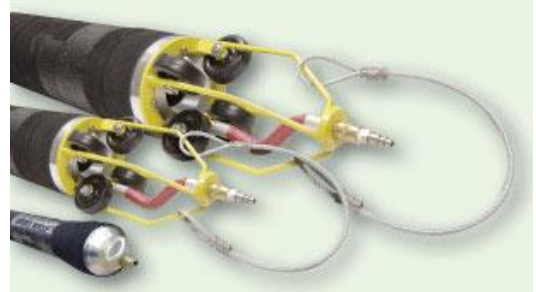
**Features for all sizes:**

- Made of aramid corded natural rubber: extremely durable and flexible
- Flexible: All units can fold in half for transport
- 1/4" NPT Inflation Port with male quick disconnect for ease of connection

**Features on 6"-10" and 8"-12":**

- Integrated cage/wheel assembly for ease of movement down the pipe
- Bypass design allows sewage bypass during repair
- Unique centered inflation port for use with push rod inflation poles
- Wire harness keeps unit centered in pipe
- 2" FPT bypass allows for continuous sewer flow

Made by Cherne



**Point Repair Carrier**



Approx. Contact		Max Pipe Diameter	Deflated Diameter	Inflation Pressure*	Shpg Wt lbs	Item Number
Length	Length					
<b>Multi-Size Point Repair Carriers For 4" - 6" Diameter</b>						
5'	52"	6.25"	2.60"	50 PSI (3,4 bar)	8	130-50406-05
8'	88"	6.25"	2.60"	50 PSI (3,4 bar)	10	130-50406-08
10'	112"	6.25"	2.60"	50 PSI (3,4 bar)	11	130-50406-10
12'	136"	6.25"	2.60"	50 PSI (3,4 bar)	14	130-50406-12
15'	172"	6.25"	2.60"	50 PSI (3,4 bar)	17	130-50406-15
<b>Multi-Size Point Repair Carriers For 6" - 10" Diameter</b>						
5'	48"	10.25"	4.63"	25 PSI (1,7 bar)	23	130-50610-05
8'	84"	10.25"	4.63"	25 PSI (1,7 bar)	30	130-50610-08
10'	108"	10.25"	4.63"	25 PSI (1,7 bar)	35	130-50610-10
12'	132"	10.25"	4.63"	25 PSI (1,7 bar)	40	130-50610-12
15'	168"	10.25"	4.63"	25 PSI (1,7 bar)	47	130-50610-15
<b>Multi-Size Point Repair Carriers For 8" - 12" Diameter</b>						
5'	48"	12.25"	5.80"	25 PSI (1,7 bar)	33	130-50812-05
8'	84"	12.25"	5.80"	25 PSI (1,7 bar)	40	130-50812-08
10'	108"	12.25"	5.80"	25 PSI (1,7 bar)	45	130-50812-10
12'	132"	12.25"	5.80"	25 PSI (1,7 bar)	50	130-50812-12
15'	168"	12.25"	5.80"	25 PSI (1,7 bar)	56	130-50812-15

Custom configurations also available

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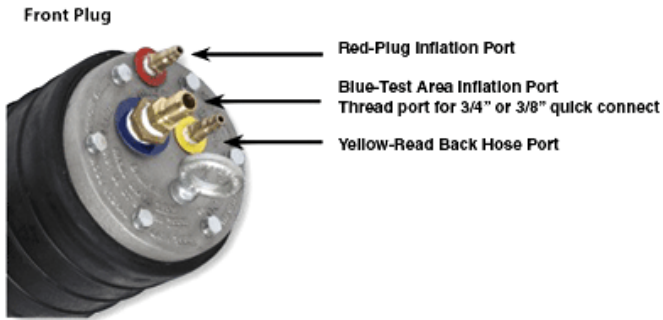


*Used for testing sewer pipe installations*

The Leak Detector Low Pressure Air-Testing System has been successfully used for testing sewer pipe installations for over 40 years. This method of testing pipelines has proven to be the fastest, most economical, and accurate method of testing pipe. It allows you to perform tests as prescribed by ASTM C 828, C 924, and F 1417.

*Leak Detector Line Acceptance Kit*

The Line Acceptance Kit is used to perform low pressure air tests (up to 10 psi) on newly installed sewer lines. The Line Acceptance Kit includes the control panel, 50' triple hose, and a storage container. Not included in kit is an air compressor and pipe plugs.



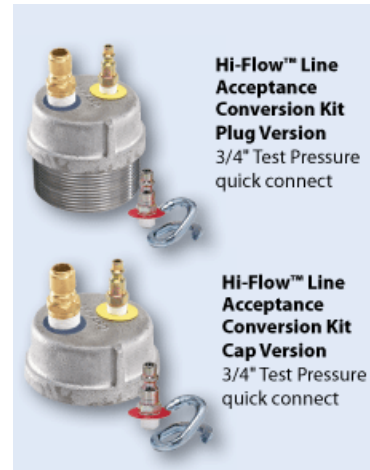
Description	Shpg Wt lbs	Item Number	Unit Price Each
Leak Detector Line Acceptance Kit (does not include plug or air compressor)	75	924-1304-K	\$2284

*Leak Detector Conversion Kit Features:*

- Converts Municipal Style Muni-Ball® plugs to air test plugs
- Available for line acceptance and/or leak location tests

*Equipped with:*

- Colored discs coded to hose connections
- Conversion set up instructions



Continued next page

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## Test Equipment, Leak Detector Pressure Testing Panel, 924-1304 Series (Continued)

*Used for testing sewer pipe installations*

Hi-Flow® Line Acceptance Conversion Kits (3/8" and 3/4" fittings)		
Description	Shpg Wt lbs	Item Number
2" MNPT Plug Conversion Kit	4	924-1304-8200M
3" MNPT Plug Conversion Kit	3	924-1304-8300M
4" MNPT Plug Conversion Kit	5	924-1304-8400M
2" FNPT Cap Conversion Kit	4	924-1304-8200
2½" FNPT Cap Conversion Kit	3	924-1304-8250
4" FNPT Cap Conversion Kit	7	924-1304-8400
6" FNPT PVC Cap Conversion Kit	3	924-1304-8600

Line Acceptance / Leak Location Conversion Kits (3/8" fittings)		
Description	Shpg Wt lbs	Item Number
¾" MNPT Plug Conversion Kit with quick-disconnect fittings	2	924-1304-9075M
1½" MNPT Plug Conversion Kit with quick-disconnect fittings	3	924-1304-9150M
2" MNPT Plug Conversion Kit with quick-disconnect fittings	4	924-1304-9200M
3" MNPT Plug Conversion Kit with quick-disconnect fittings	3	924-1304-9300M
4" MNPT Plug Conversion Kit with quick-disconnect fittings	5	924-1304-9400M
2" FNPT Cap Conversion Kit with quick-disconnect fittings	4	924-1304-9200
2½" FNPT Cap Conversion Kit with quick-disconnect fittings	3	924-1304-9250
4" FNPT Cap Conversion Kit with quick-disconnect fittings	7	924-1304-9400

### Leak Detector Pressure Testing Panel

Panel includes gauges to monitor compressor pressure, plug pressure, and test pressure, all in a sturdy steel case with a durable powder-coat enamel finish. Panel also has regulators to control plug and test pressure.

Panel can be used with either 3/8" or 3/4" fill hose, accomplished by simply turning a valve. Panel is designed to work with air compressors fitted with either crow's foot or standard quick disconnect fittings



Description	Shpg Wt lbs	Item Number
Control Panel - Portable	30	924-1304-6
<b>Replacement Parts for Control Panel</b>		
0-10 PSI Test Pressure Gauge - Dampened Movement	1	924-1304-6010
0-60 PSI Ball Pressure Gauge	1	924-1304-6060
0-160 PSI Compressor Gauge	1	924-1304-6160
3-Way Valve	1	924-1304-62
Regulator	1	924-1304-63

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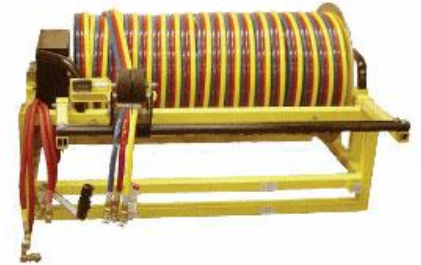
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*Used for testing sewer pipe installations*

**Triple Hose Reel**

The triple hose reel is used to pull the tandem plug assembly through the sewer line. It's designed to be mounted to the back of a pickup and features durable color-coded hose, a hose distance counter, a two way air motor and more. Cherne also offers an economical version of this reel that does not include the air motor or counter system



**Triple Hose**

The 3/8" diameter hose assembly is used to connect the Leak Detector Panel to the front plug. Triple hose is color-coded, making connections easy to understand. Hose features locking quick disconnects for convenience and safety. Hose also includes strain relief to protect hose and connections from damage. Hi-Flow™ Triple Hose available with 3/4" blue test pressure hose for quick exhausting.

**Interconnect Hose**

The interconnect hose is used to attach the front and back air test plugs when conducting a leak location test. This hose includes a cable for attaching to the pipe plugs to take strain off the hose during the leak location process.



Description	Shpg Wt lbs	Item Number
25' Triple Hose	10	924-1304-038025
50' Triple Hose	19	924-1304-038050
500' Triple Hose	165	924-1304-038500
25' Hi-Flow Triple Hose	9	924-1304-075025
50' Hi-Flow Triple Hose	19	924-1304-075050
22' Interconnect Hose	4	924-1304-038022








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## Pipe Plugs/Packers, Inflatable, Accessories

*Call for additional accessories and adaptors*

	Description	Shpng Wgt lbs	Item Number
<b>Alarms, Low Pressure Monitoring</b>			
	Alarm, Audible, Low Pressure, 0-15 psi, 9V DC Battery, 1/4" male & female QC	2	936-1325-015
	Alarm, Audible, Low Pressure, 10-90 psi, 9V CD Battery, 1/4" male & female QC	2	936-1325-090
	Alarm, Audible, Low Pressure, 20-300 psi, 9V CD Battery, 1/4" male & female QC	2	936-1325-300
	Alarm, Audible, Low Pressure, 20-300 psi, 9V CD Battery, 1" cam and croove coupling		
<b>Hose &amp; Rope Assemblies</b>			
	1/4" 2' 120 psi hose, tire valve	1	936-2025-1002
	1/4" 3' 120 psi hose, tire valve	1	936-2025-1003
	1/4" 6.5' 120 psi hose, tire valve	1	936-2025-1006
	1/4" 16.5' 120 psi hose, tire valve	2	936-2025-1016
	1/4" 32' 120 psi hose, tire valve	4	936-2025-1032
	3/8" 24' 200 psi hose, 1/4" male & female QC	4	936-2038-2024
	3/4" 24' 200 psi hose, 1/2" male & female QC	10	936-2075-3024
	120" High Temperature SS Braided, 1/2" ID 1,180 PSI @ 72F, Flexible, 1/2 NPT Male Fittings, 1/2" npt fittings		936-5050-0120
	1" 24' water suction hose, 90 psi, 130°F, 1" cam & groove cplg	12	936-2100-5024
	1 1/2" 24' water suction hose, 110 psi, 140°F, 1 1/2" cam & groove cplg	12	936-2150-6024
	3/4" 24' Poly lift rope with snap hooks	3	936-3075-3024
	1/8" 24' 304 Stainless Steel Retrieval Cable with snap hooks (316 SS cable clamps)	3	936-4013-3024








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## Pipe Plugs/Packers, Inflatable, Accessories, Continued

*Call for additional accessories and adaptors*

	Description	Shpng Wgt lbs	Item Number
Inflation Controllers (Relief Valve and Gauge sold separately)			
	0-15 PSI adjustable regulator, precision, 1/2" male & female QC	4	936-1050-15
	0-30 PSI adjustable regulator, precision, 1/2" male & female QC	4	936-1050-30
	Controller, Inflation Air with adjustable regulator and valve, 0-200 psi, 1/2" male & female QC	5	936-1050-200
	Controller, Inflation Water/Air with Pump, Reg & Valves, 50 gpm, 0-100 psi, 1" cam & groove cplg	49	936-2150-050
	Controller, Inflation Water/Air with Pump, Reg & Valves, 100 gpm, 0-100 psi, 1 1/2" cam & groove cplg	110	936-2150-100
	Pressure monitoring valve assembly with receptacles for gauge & relief valve, 1/4" male & female QC	4	936-2300-025
	Vacuum Generator, Venturi, 80psi operating pressure, 1/2" male & female QC	8	936-1201
Miscellaneous			
	Inflation Hand Pump with gauge 0 to 60 psi	5	937-6001
	Repair Kit for MULTI-FLEX® Plugs	15	937-5100
	Tank, Portable Nitrogen Tank, controller & regulator (relief valve & gauge sold separately)	55	937-7750










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## Pipe Plugs/Packers, Inflatable, Accessories, Continued

*Call for additional accessories and adaptors*

Description		Shpng	Item Number
		Wgt lbs	
<b>Pressure Gauge Assemblies</b>			
	Gauge 0 to 15 psig, 1/4" male & female QC	2	936-1000-1015
	Gauge 0 to 30 psig, 1/4" male & female QC	2	936-1000-1030
	Gauge 0 to 60 psig, 1/4" male & female QC	2	936-1000-1060
	Gauge 0 to 100 psig, 1/4" male & female QC	2	936-1000-1100
	Gauge 0 to 160 psig, 1/4" male & female QC	2	936-1000-1160
	Gauge 0 to 200 psig, 1/4" male QC	2	936-1000-1200
	Gauge 0 to 300 psig, 1/4" male QC	2	936-1000-1300
	Gauge 0 to 600 psig, 1/4" male QC	2	936-1000-1600
<b>Protective Sleeve - for Cherne Plugs</b>			
	For Plug sizes 12" - 24" , 1/4" thickness	13	936-0000-300988
	For Plug sizes 15" - 30" , 1/4" thickness	27	936-0000-300998
	For Plug sizes 20" - 40" , 1/4" thickness	30	936-0000-301408
	For Plug sizes 24" - 42" , 1/4" thickness	44	936-0000-301018
	For Plug sizes 24" - 48" , 1/4" thickness	56	936-0000-301028
	For Plug sizes 24" - 60" , 1/4" thickness	140	936-0000-301059
	For Plug sizes 40" - 60" , 1/4" thickness	95	936-0000-301038
	For Plug sizes 48" - 72" , 1/4" thickness	150	
	For Plug sizes 54" - 96" , 1/4" thickness	212	










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## Pipe Plugs/Packers, Inflatable, Accessories, Continued

*Call for additional accessories and adaptors*

Description		Shpng	Item Number
		Wgt lbs	
<b>Pull Cages</b>			
	Pull Cage with hoops, 2" npt	3	936-7520
	Pull Cage with hoops, 3" npt	5	936-7530
<b>Relief Valve Assemblies</b>			
	Valve, Pressure Relief, 0 to 25 psig, 1/4" male QC	2	936-1000-200025
	Valve, Pressure Relief, 0 to 100 psig, 1/4" male QC	2	936-1000-200100
<b>Rotating Elbows (Flange adaptors available)</b>			
	Rotating Elbow, 3/4 " fnpt x 1.250" OD plated steel	1	936-8007-1
	Rotating Elbow, 1 1/4" fnpt x 1.875" OD plated steel	5	936-8012-1
	Rotating Elbow, 2" fnpt x 2.875" OD plated steel	10	936-8020-1
	Rotating Elbow, 3" mnpt x 2.5" fnpt x 3.875" OD plated steel	16	936-8030-1
<b>Rupture Discs</b>			
Plug Number			
	130-230-25, 130-230-4, 130-242-4, 130-260-4M	1	924-1302-3060
	130-248-4, 130-260-4F	1	924-1302-4860
	130-296-4, 130-272-4	1	924-1302-7296
	130-030-MS, 130-042-MS, 130-048-MS, 130-060-MS, 130-060-MSM	1	924-1300-3060
	130-072-MS, 130-096-MS	1	924-1300-7296
	130-430-F, 130-422-F, 130-448-F, 130-460-F, 130-460-FM	1	924-1304-3060

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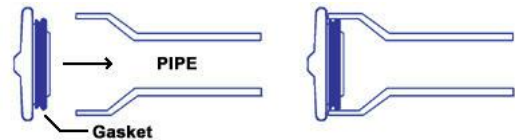
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### Helps keep your pipes clean

The non-pressure Pipe Protector Plug, made with a Natural rubber gasket, is a patented polyethylene plug used to keep all types of pipe clean. If you need to keep your pipe free of water, sand, mud, animals, or just about anything else, this is the answer. It saves time and money and fits pipe from 6" to 60". Custom sizes are available upon request!

Pipe Size in mm	Shpg Wt lbs	Item Number				
		Ductile Iron & C-900 Please include the class of pipe for spigot end of DI/C-900		Vylon (Viton) & Pro 21		
		Spigot End	Bell End	Spigot End	Bell End	
6	152	3	140-006-1S	140-006-1B		
8	203	3	140-008-1S	140-008-1B		
10	254	4	140-010-1S	140-010-1B		
12	305	4	140-012-1S	140-012-1B		
14	356	4	140-014-1S	140-014-1B		
16	406	7	140-016-1S	140-016-1B		
18	457	7	140-018-1S	140-018-1B		
20	508	7	140-020-1S	140-020-1B		
21	533	8				140-021-9B
24	610	9	140-024-1S	140-024-1B	140-024-9S	140-024-9B
27	686	13			140-027-9S	140-027-9B
30	762	18	140-030-1S	140-030-1B	140-030-9S	140-030-9B
33	838	20			140-033-9S	140-033-9B
36	914	25	140-036-1S	140-036-1B	140-036-9S	140-036-9B
42	1067	32	140-042-1S	140-042-1B	140-042-9S	140-042-9B
48	1219	39	140-048-1S	140-048-1B	140-048-9S	140-048-9B
54	1372	57	140-054-1S	140-054-1B	140-054-9S	140-054-9B
60	1524	65	140-060-1S	140-060-1B	140-060-9S	140-060-9B



Pipe Size in mm	Shpg Wt lbs	Item Number							
		Polyethylene		Concrete		SDR 35			
		Spigot End	Bell End	Spigot End	Bell End	Spigot End	Bell End	Spigot End	Bell End
6	152	3	140-006-2S	140-006-2B	140-006-3S	140-006-3B	140-006-4S	140-006-4B	
8	203	3	140-008-2S	140-008-2B	140-008-3S	140-008-3B	140-008-4S	140-008-4B	
10	254	4	140-010-2S	140-010-2B	140-010-3S	140-010-3B	140-010-4S	140-010-4B	
12	305	4	140-012-2S	140-012-2B	140-012-3S	140-012-3B	140-012-4S	140-012-4B	
15	381	6	140-015-2S	140-015-2B	140-015-3S	140-015-3B	140-015-4S	140-015-4B	
18	457	7	140-018-2S	140-018-2B	140-018-3S	140-018-3B	140-018-4S	140-018-4B	
21	533	8							140-021-4B
24	610	9	140-024-2S	140-024-2B	140-024-3S	140-024-3B	140-024-4S	140-024-4B	
27	686	13			140-027-3S	140-027-3B	140-027-4S	140-027-4B	
30	762	18	140-030-2S	140-030-2B	140-030-3S	140-030-3B	140-030-4S	140-030-4B	
36	914	25	140-036-2S	140-036-2B	140-036-3S	140-036-3B			
42	1067	32	140-042-2S	140-042-2B	140-042-3S	140-042-3B			
48	1219	39	140-048-2S	140-048-2B	140-048-3S	140-048-3B			
54	1372	57	140-054-2S	140-054-2B	140-054-3S	140-054-3B			
60	1524	65	140-060-2S	140-060-2B	140-060-3S	140-060-3B			

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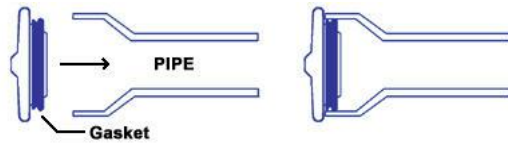
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*Helps keep your pipes clean*



Pipe Size	Item Number									
			SDR 26		SDR 21 (cl 200) & 26 (cl 160)		Ultra Rib		Steel Gas	
in	mm	Shg Wt lbs	Spigot End	Bell End	Spigot End	Bell End	Spigot End	Bell End	Spigot End	Bell End
6	152	3	140-006-5S	140-006-5B	140-006-6S	140-006-6B			140-006-8S	140-006-8B
8	203	3	140-008-5S	140-008-5B	140-008-6S	140-008-6B	140-008-7S	140-008-7B	140-008-8S	140-008-8B
10	254	4	140-010-5S	140-010-5B	140-010-6S	140-010-6B	140-010-7S	140-010-7B		
12	305	4	140-012-5S	140-012-5B	140-012-6S	140-012-6B	140-012-7S	140-012-7B	140-012-8S	140-012-8B
15	381	6	140-015-5S	140-015-5B			140-015-7S	140-015-7B	140-015-8S	140-015-8B
18	457	7	140-018-5S	140-018-5B			140-018-7S	140-018-7B	140-018-8S	140-018-8B
21	533	8		140-021-5B				140-021-7B		
24	610	9	140-024-5S	140-024-5B			140-024-7S	140-024-7B	140-024-8S	140-024-8B
27	686	13					140-027-7S	140-027-7B		
30	762	18					140-030-7S	140-030-7B	140-030-8S	140-030-8B
36	914	25							140-036-8S	140-036-8B

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Test Caps, Pipe Sizes: 1.5" to 6", 142-9 Series

### Test caps for different applications

#### Slip On Style Test Cap

- Made of Polyethylene
- Ideal for protecting open pipe
- Slips over DWV pipe or inside the fitting
- Does not require solvent cement
- Schedule 40 ABS and PVC DWV pipe
- 

#### End Cap Style Test Cap

- Made of ABS
- Deep design provides extra sealing strength
- For use on DWV water or air tests on Schedule 40 ABS and PVC DWV pipe

#### Knock Out Style Test Cap

- Made of ABS
- Deep design provides stronger, leak-free connections
- For use with Schedule 40 ABS and PVC DWV pipe

#### Hose Clamp Style Test Cap

- Made of flexible PVC
- Stainless steel hose clamp - will not rust
- For use on plastic, steel, copper, and cast iron pipe



Nominal Size	Maximum Back Pressure	Unit Qty per Case	Case Shpg Wt lbs	Item Number
<b>Slip On Style Test Cap</b>				
1.5"	4.3 psi	10 ft.	50	3 142-91015
2"	4.3 psi	10 ft.	25	2 142-9102
3"	4.3 psi	10 ft.	10	2 142-9103
4"	4.3 psi	10 ft.	10	2 142-9104
<b>End Cap Style Test Cap</b>				
1.5"	17 psi	40 ft.	100	3 142-92015
1.5" - 2"	17 psi	40 ft.	50	3 142-9202M
2"	17 psi	40 ft.	100	4 142-9202
3"	17 psi	40 ft.	50	3 142-9203
3" - 4"	17 psi	40 ft.	25	2 142-9204M
4"	17 psi	40 ft.	20	2 142-9204
<b>Knock Out Style Test Cap</b>				
1.5"	13 psi	30 ft.	100	2 142-93015
2"	13 psi	30 ft.	100	4 142-9302
3"	13 psi	30 ft.	50	4 142-9303
4"	13 psi	30 ft.	25	3 142-9304
<b>Hose Clamp Style Test Cap</b>				
1.5"	13 psi	30 ft.	10	2 142-94015
2"	13 psi	30 ft.	10	3 142-9402
3"	13 psi	30 ft.	10	4 142-9403
4"	13 psi	30 ft.	10	7 142-9404
5"	13 psi	30 ft.	5	8 142-9405
6"	13 psi	30 ft.	5	6 142-9406

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## Economical plugs for many applications

### Mechanical Test Plug For Air Tests

- Employs a hollow, bored bolt stem, and threaded brass air filler valve.
- A bored bolt stem and integral brass air valve make the pneumatic test plug an easy alternative to standard water head pressure tests.
- Simply insert, tighten, and inflate. The non-slip shoulder prevents the gasket from spinning.

Pipe Diameter				Relative Blowout Ratings*			Shpg Wt	Item
Maximum	Minimum	72oF	15oF	0oF	Wt	Number		
in	mm	in	mm	psig	psig	psig	lbs	
1.820	46	1.550	39	65	55	42	1	143-001-P
2.100	53	1.865	47	65	25	10	1	143-002-P
3.135	79	2.860	72	45	11	7	1	143-003-P
4.150	105	3.875	98	42	10	8	1	143-004-P



### Mechanical Test Plug For Head Tests

- Designed with only four corrosion proof components:
  - Polypro wingnut
  - Nylon top plate
  - Soft PVC gasket
  - Nylon base/stem for simplicity and strength
- Back to front wedge design prevents blowouts at high and low temperatures.
- Provides a leak-free seal at seven times the psi of other mechanical test plugs.
- "Non-slip shoulder for fast, easy installations."

Pipe Diameter				Relative Blowout Ratings*			Shpg Wt	Item
Maximum	Minimum	72oF	15oF	0oF	Wt	Number		
in	mm	in	mm	psig	psig	psig	lbs	
1.820	46	1.550	39	65	55	42	1	143-001
2.100	53	1.865	47	65	25	10	1	143-002
3.135	79	2.860	72	45	11	7	1	143-003
4.150	105	3.875	98	42	10	8	1	143-004



### Mechanical Test Plug For Cleanouts

- Soft PVC gasket creates an air-tight seal first behind the threads then forms into them.
- Ideal for use on damaged cleanout openings or on damaged or deteriorated threads.
- "Seals 1-1/2" - 4" female cleanout threads."

Pipe Diameter				Shpg Wt	Item
Maximum	Minimum	Minimum	Minimum		
in	mm	in	mm	lbs	Number
1.830	46	1.615	41	1	143-001-C
4.260	108	3.875	98	1	143-003-C
4.315	109	4.050	102	1	143-004-C



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*Extremely versatile and cost effective expansion plugs for many applications*

### Hand Tightening Nylon Body Test Plugs

- By-pass is a standard feature on 10", 12", 15", and 18" diameter
- By-pass available on special order for smaller size plugs
- Low cost
- Light weight
- Reusable
- Can be buried indefinitely
- Easily installed, no tools required
- No metal parts up to 12" sizes
- Polyisoprene rubber construction seals

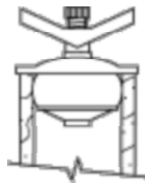
15" and 18" plug - Stainless steel thumb screws and brass inserts



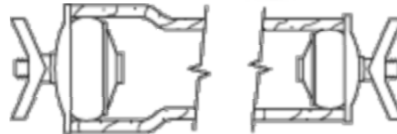
Plugs under 15" - Rugged nylon and Polyisoprene rubber construction.



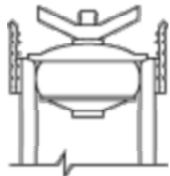
Plug openings in sewer access



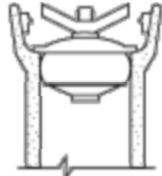
Low pressure test plug



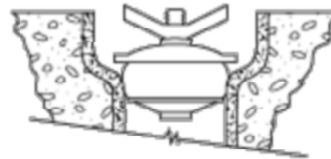
Seal both ends of PVC pipe



Plain end pipe



Bell & spigot pipe



Seal drains in flood-prone basements

Pipe Diameter				Outer Plate Dia.	Maximum* Head Pressure	Shpg Wt	Item Number		
Maximum	Minimum								
in	mm	in	mm	in	mm	psig	bar	lbs	
4.60	117	3.75	95	4.5	114	5	0.3	1	142-004
5.80	147	5.10	130	5.8	147	5	0.3	2	142-005
6.80	173	5.80	165	6.5	165	5	0.3	3	142-006
8.60	218	7.90	201	8.5	215	5	0.3	3	142-008
10.75	273	9.50	241	10.5	266	5	0.3	4	142-010
12.50	318	11.50	292	12.5	317	5	0.3	5	142-012
14.30	363	14.00	356	15.25	388	5	0.3	6	142-015
17.50	444	17.25	438	18.5	469	5	0.3	8	142-018

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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 email: sales@PetersenProducts.com

## Pipe Plugs, Mechanical, Hand Tightening Low Pressure Aluminum Body By-Pass, Pipe Sizes: 1 1/2" to 36", 141-0 Series

*For very low pressure test or temporary closure*

- Durable cast aluminum body, plated steel wing nut and by-pass, heavy duty, non-corrosive and maintenance-free; with SBR/Natural rubber seals.
- Lightweight, easy to handle - up to 70% lighter than similar steel plugs.
- Fill or Vent - threaded pipe stem has removable cap.
- Simple to install and work with - wing nut easily expands rubber seal.
- These plugs have a SBR/Natural rubber seal.
- These plugs are non pressure rated



Nominal Size		Expanded Diameter		Relaxed Diameter		By-Pass Size		Shpg	Item
in	mm	in	mm	in	mm	bspm/npt	in mm	lbs	Number
1.5	38	1.889	48	1.456	37	0.5	13	1	141-0015
2	51	2.44	62	1.889	48	0.5	13	1	141-0020
2.5	64	2.775	70	2.44	62	0.5	13	1	141-0025
3	76	3.425	87	2.795	71	0.5	13	1	141-0030
3.5	89	3.7	94	3.503	89	0.5	13	1	141-0035
4	102	4.133	105	3.779	96	0.5	13	1	141-0040
4.5	114	4.724	120	4.4	112	0.5	13	1	141-0045
5	127	5.393	137	4.842	123	0.5	13	2	141-0050
6	152	6.55	166	5.9	150	0.5	13	2	141-0060
7	178	7.3	185	6.55	166	1	25	3.5	141-0070
8	203	8.55	217	7.7	196	1	25	3.5	141-0080
9	229	9.1	231	8.2	208	1	25	4.5	141-0090
10	254	10.25	260	9.2	234	1	25	5	141-0100
11	279	11.2	284	10.3	262	1	25	8	141-0110
12	305	12.45	316	11.35	288	1	25	8	141-0120
14	356	15.1	384	13.8	351	1	25	11.5	141-0140
15	381	15.8	401	14.35	364	1	25	14	141-0150
16	406	17	432	15.6	396	1	25	14	141-0160
18	457	19.25	489	17.45	443	1	25	18	141-0180
20	508	20.65	525	19.15	486	2	51	30	141-0200
21	533	22.1	561	20.65	525	2	51	32	141-0210
24	610	25.5	648	23.55	598	2	51	38	141-0240
27	686	27.7	704	26.25	667	2	51	44	141-0270
30	762	31	787	29.25	743	2	51	60	141-0300
32	812	32	812	31.125	794	2	51	61	141-0320
36	914	36.8	935	34.5	876	2	51	96	141-0360

**Note:** Expansion plugs are less effective at higher limits of expansion than in the mid range. Let us help you by supplying the proper sizes for your requirements.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
email: sales@PetersenProducts.com

*Used for a wide variety of industrial applications*

- These superior, versatile, expandable pipe plugs are used to accommodate a wide variety of industrial applications where an airtight seal is required.
- Quality, Lightweight, Durable Nylon 20% lighter than metal.
- Tough/shatter-proof and easily cleaned and maintained, corrosion resistant.
- Plaster or cement do not adhere to the plug.
- Friction-reducing acetyl copolymer thrust washer inserted between plate and wing nut provides for easy expansion.
- SBR/Natural Rubber provides "superior" seal.
- Larger sizes incorporate strengthening ribs to provide rigidity in use.
- Silicon, nitrile, and viton seals available.



Nominal Size in	Expanded Diameter mm	Expanded Diameter in	Relaxed Diameter mm	Relaxed Diameter in	By-Pass Size		Shpg Wt lbs	Item Number
					bspm	npt in mm		
<b>Mechanical Plugs Without By-Pass</b>								
0.5	13	0.6	15	0.49	12		1	144-0005
0.75	19	0.9	23	0.74	19		1	144-0007
1	25	1.2	30	0.975	25		1	144-0010
1.25	32	1.45	37	1.225	31		1	144-0012
1.5	38	1.75	44	1.48	38		1	144-0015
<b>Mechanical Plugs With By-Pass</b>								
0.5	13	0.6	15	0.49	12	1/8"	3	144-0005-8
0.75	19	0.9	23	0.74	19	1/8"	3	144-0007-8
1	25	1.2	30	0.975	25	1/8"	3	144-0010-8
1.25	32	1.45	37	1.225	31	1/8"	3	144-0012-8
1.5	38	1.93	49	1.42	36	1/2"	13	144-0015-8
2	51	2.36	60	1.93	49	1/2"	13	144-0020-8
2.5	64	2.76	70	2.4	61	1/2"	13	144-0025-8
3	76	3.31	84	2.87	73	1/2"	13	144-0030-8
4	102	4.25	108	3.54	90	1/2"	13	144-0040-8
5	127	5.37	136	4.72	120	1/2"	13	144-0050-8
6	152	6.29	160	5.5	140	1/2"	13	144-0060-8
<b>Accessories for Mechanical Plugs With By-Pass</b>								
18" Hose		Rubber				1/2" npt fittings	1	930-35180
48" Hose		Rubber				1/2" npt fittings	1	930-35480

**Note:** Expansion plugs are less effective at higher limits of expansion than in the mid range. Let us help you by supplying the proper sizes for your requirements.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Mechanical, Flush Mounted and Beveled Finishing Plate, Pipe Sizes: 1.5" to 4", 140-4 & 140-5 Series

*Helps keep your drains clean in heavy traffic areas*

These non-pressure plugs come in two styles, the Counter Sunk and the Finishing Plate style. These plugs have a stainless steel hex expansion screw, a neoprene gasket, and ABS construction for use in commercial applications. Commonly used where carpeting will be laid over a clean out as in an office or finished basement. Either may be used for wall applications, though use of the Finishing Plate style is more common. Plugs have a neoprene gasket.

These plugs use a 5/32" Allen wrench for installation and removal and are considered a tamper proof expansion plug. To install plug simply hand tighten the screw to the right until snug. Do not over tighten. To remove plug turn screw to the left, lightly tap the screw then remove the plug.

**The 140-4** Counter Sunk style has a heavy duty 12 gauge stainless steel top plate for use in areas of heavy traffic areas such as driveways, doorways, sidewalks, or warehouse floor drains where heavy machinery can be driven over it. It will sit flush to the floor. Gasket to the top of the stainless steel plate is 1/4".

**The 140-5** Finishing Plate Style is for lighter duty walking traffic Beveled plate will sit atop the floor surface.

Stainless Steel (12 gauge) Topped Counter-Sunk Plugs									
Nominal Sch 10 Size	Range of Use				SS Cover Size	Shpg Wt lbs	Item Number		
	Expanded Diameter in	Diameter mm	Relaxed Diameter in	Diameter mm					
1.5	38.1	1.89	48	1.64	42	2-5/8	1	140-4015	
2.0	50.8	2.18	55	2.04	52	2-5/8	1	140-4020	
2.5	63.5	2.95	75	2.66	68	3-3/4	1	140-4025	
3.0	76.2	3.50	88	3.30	84	4	1	140-4030	
3.5	88.9	4.00	101	3.72	95	4-7/8	1	140-4035	
4.0	101.6	4.45	112	4.20	107	5-1/2	1	140-4040	



140-4 Series Stainless Steel Topped Counter Sunk Plugs

Bright Stainless Steel (22 gauge) Finishing Plate Plugs - Flush									
Nominal Sch 10 Size	Range of Use				SS Cover Size	Shpg Wt lbs	Item Number		
	Expanded Diameter in	Diameter mm	Relaxed Diameter in	Diameter mm					
1.5	38.1	1.89	48	1.64	42	3	1	140-5015	
2.0	50.8	2.18	55	22.20	52	3	1	140-5020	
2.5	63.5	2.95	75	2.66	68	4	1	140-5025	
3.0	76.2	3.50	88	3.30	84	6	1	140-5030	
3.5	88.9	4.00	101	3.72	95	6	1	140-5035	
4.0	101.6	4.45	112	4.20	107	8	1	140-5040	



140-5 Series bright Stainless Steel Finishing Plate Plugs

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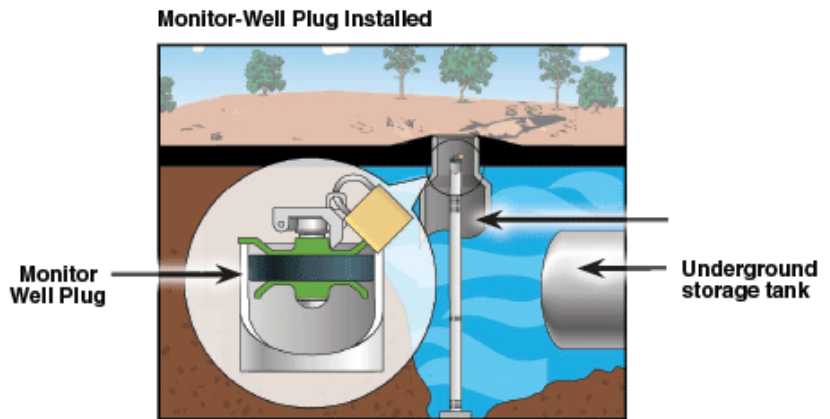
*Designed to seal monitor wells*

Monitor-Well Locking Plug Features:

- Designed to seal monitor wells
- Meets all EPA requirements for locking plugs
- Sized to seal Schedule 40 piping
- 2" and 4" sizes can also seal Schedule 5 pipe
- Works with solid brass padlock (sold separately)

Equipped with:

- Chemical and petroleum-resistant Estaloc™ plastic top and bottom plates
- Petroleum resistant nitrile o-ring
- Stainless steel carriage bolt
- Yellow chromate-coated locking latch



Nominal Size	Range of Use	Maximum Back Pressure	Length	Shpg Wt lbs	Item Number
1" - 1.25"	1"-1.38"	6.5 psi	15 ft.	2.5"	142-8012
(25-30 mm)	(23-35 mm)	(0.,45 bar)	(4.5 M)	(64 mm)	
2"	1.9"-2.31"	6.5 psi	15 ft.	2.5"	142-802
(50 mm)	(49-59 mm)	(0.,45 bar)	(4.5 M)	(64 mm)	
3"	2.8"-3.1"	6.5 psi	15 ft.	2.6"	142-803
(75 mm)	(71-79 mm)	(0.,45 bar)	(4.5 M)	(66 mm)	
4"	3.8"-4.38"	6.5 psi	15 ft.	3.0"	142-804
(100 mm)	(97-111 mm)	(0.,45 bar)	(4.5 M)	(76 mm)	
6"	5.77"-6.08"	6.5 psi	15 ft.	3.98"	142-806
(150 mm)	(147-155 mm)	(0.,45 bar)	(4.5 M)	(101 mm)	
8"	7.76"-8.03"	6.5 psi	15 ft.	3.98"	142-808
(200 mm)	(197-204 mm)	(0.,45 bar)	(4.5 M)	(101 mm)	
Pad Lock, Size #2				1	142-800

Shackle Dims: 0.215" diameter, 0.73" horizontal clearance, 0.67" vertical clearance  
 Body Dims: 1.073" height, 1.39" width, 0.419" thickness



See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

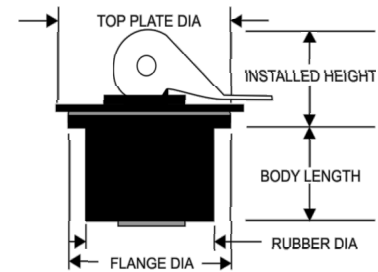
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## Pipe Plugs, Mechanical, Lever Type Expandable Rubber, Pipe Sizes: 3/8" to 4", 143-1 Series

*Extremely versatile and cost effective expansion plugs*

- Brass lever type handle provides an excellent grip to fasten the plug into a hole
- Plugs have a brass handle and zinc-plated steel hardware.
- Can be used to hang products or seal holes
- Low cost
- Light weight
- Reusable
- Easily installed, no tools required
- These plugs come standard with Neoprene rubber, a brass handle, and zinc-plated steel hardware
- These plugs are non pressure rated



Nominal Size		Expanded Diameter		Relaxed Diameter		Body Length		Flange Diameter		Top Plate Diameter		Installed Height		Shpg Wt	Item
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	Number
3/8	9.65	0.417	10.592	0.375	9.53	0.69	17.53	1.12	28.45	1.05	26.67	0.65	16.51	1	143-1038
7/16	11.18	0.451	11.455	0.406	10.31	0.69	17.53	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1044
1/2	12.7	0.52	13.208	0.468	11.89	0.66	16.76	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1050
9/16	14.22	0.611	15.519	0.55	13.97	0.66	16.76	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1056
5/8	16	0.68	17.272	0.612	15.54	0.65	16.51	0.97	24.64	1.05	26.67	0.66	16.76	1	143-1063
11/16	17.53	0.729	18.517	0.656	16.66	0.69	17.53	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1069
3/4	19.05	0.799	20.295	0.719	18.26	0.69	17.53	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1075
13/16	20.57	0.868	22.047	0.781	19.84	0.69	17.53	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1081
7/8	22.35	0.944	23.989	0.85	21.59	0.69	17.53	1.12	28.45	1.05	26.67	0.69	17.53	1	143-1088
15/16	23.88	1.007	25.578	0.906	23.01	0.69	17.53	1.22	30.99	1.26	32	0.69	17.53	1	143-1094
31/32	24.64	1.041	26.441	0.937	23.8	0.69	17.53	1.22	30.99	1.26	32	0.72	18.29	1	143-1097
1	25.4	1.077	27.356	0.969	24.61	1.12	28.45	1.5	38.1	1.63	41.4	1.26	32	1	143-1100
1 1/8	28.7	1.167	29.642	1.05	26.67	1.18	29.97	1.62	41.15	1.63	41.4	1.19	30.23	1	143-1113
1 1/4	31.75	1.322	33.579	1.19	30.23	1.18	29.97	1.69	42.93	1.88	47.75	1.2	30.48	1	143-1125
1 3/8	35.05	1.444	36.678	1.3	33.02	1.16	29.46	1.75	44.45	1.88	47.75	1.15	29.21	1	143-1138
1 1/2	31.8	1.533	38.938	1.38	35.05	1.19	30.23	2	50.8	2.13	54.1	1.19	30.23	1	143-1150
1 5/8	41.4	1.7	43.18	1.53	38.86	1.19	30.23	2	50.8	2.19	55.63	1.43	36.32	1	143-1163
1 3/4	44.45	1.811	45.999	1.63	41.4	1.19	30.23	2.22	56.39	2.31	58.67	1.09	27.69	1	143-1175
1 7/8	47.75	1.944	49.378	1.75	44.45	1.12	28.45	2.31	58.67	2.31	58.67	1.15	29.21	1	143-1188
2	50.8	2.167	55.042	1.95	49.53	1.07	27.18	2.43	61.72	2.56	65.02	1.09	27.69	1	143-1200
2 1/8	54.1	2.289	58.141	2.06	52.32	1.25	31.75	2.69	68.33	2.65	67.31	1.03	26.16	1	143-1213
2 1/4	57.15	2.5	63.5	2.25	57.15	1.25	31.75	2.63	66.8	2.81	71.37	1.03	26.16	1	143-1225
2 3/8	60.45	2.567	65.202	2.31	58.67	1.19	30.23	2.78	70.61	2.91	73.91	1.09	27.69	1	143-1238
2 1/2	63.5	2.744	69.698	2.47	62.74	1.18	29.97	2.97	75.44	3.19	81.03	1.09	27.69	1	143-1250
2 5/8	66.8	2.811	71.399	2.53	64.26	1.25	31.75	3	76.2	3.19	81.03	1.09	27.69	1	143-1263
2 3/4	69.85	2.989	75.921	2.69	68.33	1.19	30.23	3.19	81.03	3.3	83.82	1.09	27.69	1	143-1275
2 7/8	73.15	3.178	80.721	2.86	72.64	1.15	29.21	3.25	82.55	3.5	88.9	1.07	27.18	1	143-1288
3	76.2	3.267	82.982	2.94	74.68	1.15	29.21	3.45	87.63	3.5	88.9	1.06	26.92	1	143-1300
3 1/4	82.55	3.533	89.738	3.18	80.77	1.19	30.23	3.53	89.66	3.87	98.3	1.06	26.92	1	143-1325
3 1/2	88.9	3.756	95.402	3.38	85.85	1.25	31.75	3.75	95.25	4.16	105.66	1.04	26.42	1	143-1350
4	101.6	4.378	111.201	3.94	100.08	1.19	30.23	4.44	112.78	4.75	120.65	1.11	28.19	1	143-1400

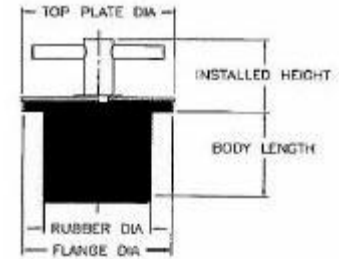
See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

*Extremely versatile and cost effective expansion plugs*

- These plugs come standard with Neoprene rubber.
- T-handle provides an excellent grip to fasten the plug into a hole
- Plugs have a brass handle and zinc-plated steel hardware.
- Can be used to hang products or seal holes
- Low cost
- Light weight
- Reusable
- Easily installed, no tools required
- These plugs are non pressure rated



Nominal Size		Expanded Diameter		Relaxed Diameter		Body Length		Flange Diameter		Top Plate Diameter		Installed Height		Shpg Wt	Item
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	Number
1/2	12.7	0.53	13.41	0.48	12.19	0.66	16.76	0.75	19.05	0.81	20.57	1.02	25.91	1	143-2050
5/8	16	0.62	15.7	0.562	14.27	0.66	16.76	0.562	14.27	1	25.4	1.21	30.73	1	143-2063
3/4	19.05	0.79	20.09	0.719	18.26	0.69	17.53	1	25.4	1	25.4	1.24	31.5	1	143-2075
7/8	22.35	0.89	22.68	0.812	20.62	0.66	16.76	1.09	27.69	1.25	31.75	1.25	31.75	1	143-2088
1	25.4	1.03	26.18	0.937	23.8	1.31	33.27	1.25	31.75	1.38	35.05	1.28	32.51	1	143-2100
1 1/8	28.7	1.17	29.61	1.06	26.92	1.25	31.75	1.56	39.62	1.63	41.4	1.28	32.51	1	143-2113
1 1/4	31.75	1.33	33.8	1.21	30.73	1.32	33.53	1.75	44.45	1.88	47.75	1.33	33.78	1	143-2125
1 3/8	35.05	1.45	36.88	1.32	33.53	1.31	33.27	1.75	44.45	1.88	47.75	1.31	33.27	1	143-2138
1 1/2	38.1	1.58	40.24	1.44	36.58	1.32	33.53	1.93	49.02	2.19	55.63	1.37	34.8	1	143-2150
1 5/8	41.4	1.71	43.31	1.55	39.37	1.32	33.53	1.94	49.28	2.19	55.63	1.28	32.51	1	143-2163
1 3/4	44.45	1.87	47.5	1.7	43.18	1.3	33.02	2.2	55.88	2.41	61.21	1.36	34.54	1	143-2175
1 7/8	47.75	1.99	50.57	1.81	45.97	1.25	31.75	2.25	57.15	2.41	61.21	1.31	33.27	1	143-2188
2	50.8	2.12	53.92	1.93	49.02	1.13	28.7	2.44	61.98	2.56	65.02	1.47	37.34	1	143-2200
2 1/8	54.1	2.27	57.55	2.06	52.32	2	50.8	3	76.2	3.19	81.03	1.71	43.43	1	143-2213
2 1/4	57.15	2.44	62.03	2.22	56.39	2	50.8	3.12	79.25	3.19	81.03	1.71	43.43	1	143-2225
2 3/8	60.45	2.53	64.26	2.3	58.42	2	50.8	3	76.2	3.19	81.03	1.71	43.43	1	143-2238
2 1/2	63.5	2.68	68.18	2.44	61.98	2	50.8	3.37	85.6	3.44	87.38	1.66	42.16	1	143-2250
2 5/8	66.8	2.82	71.52	2.56	65.02	1.97	50.04	3.25	82.55	3.44	87.38	1.74	44.2	1	143-2263
2 3/4	69.85	2.89	73.48	2.63	66.8	2	50.8	3.63	92.2	4.15	105.41	1.71	43.43	1	143-2275
2 7/8	73.15	3.09	78.51	2.81	71.37	2	50.8	3.68	93.47	4.15	105.41	1.71	43.43	1	143-2288
3	76.2	3.21	81.59	2.92	74.17	1.94	49.28	3.88	98.55	4.15	105.41	1.64	41.66	1	143-2300
3 1/8	79.5	3.37	85.49	3.06	77.72	2	50.8	3.87	98.3	4.15	105.41	1.71	43.43	1	143-2313
3 1/4	82.55	3.44	87.45	3.13	79.5	1.97	50.04	3.94	100.08	4.15	105.41	1.67	42.42	1	143-2325
3 3/8	85.85	3.64	92.48	3.31	84.07	2	50.8	3.87	98.3	4.63	117.6	1.71	43.43	1	143-2338
3 1/2	88.9	3.78	96.12	3.44	87.38	2	50.8	4.25	107.95	4.63	117.6	1.71	43.43	1	143-2350
3 5/8	92.2	3.89	98.91	3.54	89.92	2	50.8	4.24	107.7	4.63	117.6	1.64	41.66	1	143-2363
3 3/4	95.25	4.06	103.1	3.69	93.73	2	50.8	4.5	114.3	4.63	117.6	1.71	43.43	1	143-2375
3 7/8	98.55	4.19	106.45	3.81	96.77	2	50.8	4.5	114.3	4.63	117.6	1.71	43.43	1	143-2388
4	101.6	4.37	110.92	3.97	100.84	2	50.8	4.6	116.84	4.63	117.6	1.66	42.16	1	143-2400
4 1/2	114.3	4.88	124.06	4.44	112.78	2	50.8	5.25	133.35	5.25	133.35	2.12	53.85	1	143-2450
5	127	5.36	136.07	4.87	123.7	2.56	65.02	5.75	146.05	5.88	149.35	2.19	55.63	1	143-2500

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

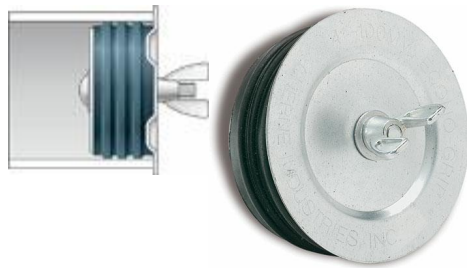
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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Pipe Plugs, Mechanical, Wing Nut, End of Pipe & Water Line Stub, Pipe Sizes: .39" to 6", 143-3, 143-4, 143-5 Series

### Cost effective plugs

#### 143-3 Series Steel Wing Nut Plugs Sizes: 1.5" to 6"

- These plugs have a SBR/Natural rubber o-ring.
- These plugs feature galvanized metal plates and bolts with a SBR/Natural rubber o-ring.
- Cost effective way for plugging open ended pipes.
- Can be used as pipe dust cover.
- These plugs are not pressure rated



#### 143-3XXX-C Series Steel Wing Nut Plugs Sizes: 1.5" to 6"

- These plugs feature stainless steel bolt and plate with a chemical resistant nitrile rubber.
- Cost effective chemical resistant plug. Can be used as pipe dust cover.

Pipe Diameter		Nominal		Maximum		Minimum		Product Length		Shpg		Item Number
in	mm	in	mm	in	mm	in	mm	in	mm	lbs		
<b>143-3 Galvanized Steel Wing Nut Plugs</b>												
1.5	40	1.65	42	1.44	37	2.56	65	1	143-3015			
2	50	2.25	57	1.96	50	2.62	67	1	143-3020			
3	75	3.25	82	2.86	73	2.64	67	1	143-3030			
4	100	4.5	114	3.78	96	3.25	82	1	143-3040			
5	125	5.3	135	4.62	117	3.55	90	2	143-3050			
6	150	6.4	162	5.62	143	3.19	81	2	143-3060			
<b>143-3xxx-C Stainless Steel Wing Nut Plugs</b>												
1.5	40	1.75	44	1.44	37	2.56	65	1	143-3015-C			
2	50	2.25	57	1.96	50	2.62	67	1	143-3020-C			
3	75	3.25	82	2.86	73	2.64	67	1	143-3030-C			
4	100	4.5	114	3.78	96	3.25	82	1	143-3040-C			
5	125	5.3	135	4.62	117	3.55	90	2	143-3050-C			
6	150	6.3	160	5.62	143	3.19	81	2	143-3060-C			

#### 143-4 Series Polypropylene End of Pipe Plugs Sizes: 1.5" to 4"

- These plugs feature a Polypropylene construction with a Natural rubber o-ring.
- Fits all types of pipe at nominal sizes.
- Can be used as a permanent or temporary plug.
- Can be tapped for use with cleanout cover.

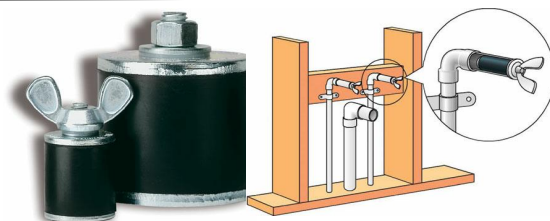


Pipe Diameter		Maximum Allowable Back Pressures*		Product Length		Shpg		Item Number		
Nominal	Maximum	Minimum	Air Pressure	Head Pressure	in	mm	Wt			
in	mm	in	psi	ft	in	mm	lbs			
1.5	40	1.63	22	1.5	50	15	2.5	64	1	143-4015
2	50	2.09	22	1.5	50	15	3	75	1	143-4020
3	75	3.09	13	0.9	30	9	3.7	94	1	143-4030
4	100	4.09	13	0.9	30	9	3.5	87	1	143-4040

**\*Mechanical Plug Warning:** Maximum head pressures that a pipe plug may hold back can only be estimated. Pressures are influenced by many factors including fluid and debris in the pipeline, type and condition of pipe, tightness of plug seal, and temperature. Plugs should always be inserted fully into pipeline and should be mechanically blocked when slippage could cause property damage or injury. NEVER use a test pressure greater than the capacity of the weakest pipe or component in the system. NEVER use a mechanical plug when its failure could cause injury.

#### 143-5 Series Water Line Stub Plugs Sizes: .39" to 5"

Pipe Diameter		Maximum Allowable Back Pressures*		Product		Shpg		Item Number	
Nominal	Maximum	Minimum	Air Pressure	Head Pressure	Dia	Len	Wt		
in	mm	in	psi	ft	in	mm	lbs		
0.39	10	0.43	185	12.8	0.38	10	48	1	143-5004
0.5	13	0.56	180	12.4	0.49	12	48	1	143-5005
0.75	20	0.87	180	12.4	0.7	18	52	1	143-5007
1	25	1.02	40	2.8	0.84	21	55	1	143-5010
1.25	32	1.43	112	7.7	1.22	31	52	1	143-5012
1.5	40	1.53	88	6.1	1.41	36	48	1	143-5015
2	50	2.06	112	7.7	1.71	43	67	1	143-5020
2.5	60	2.78	72	4.9	2.28	58	70	1	143-5025
3	75	3.5	28	1.9	2.71	69	79	2	143-5030
4	100	4.5	24	1.7	3.7	94	79	3	143-5040
5	125	5.19	8	0.6	4.78	121	82	3	143-5050



- These plugs have a SBR/Natural rubber o-ring.
- Works in all types of pipe.
- Ideal for plugging water line stub-outs.
- Designed for high pressure applications.
- Sizes .39" to 1.25" have a wing nut.
- Sizes 1.5" to 5" have a hex nut.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

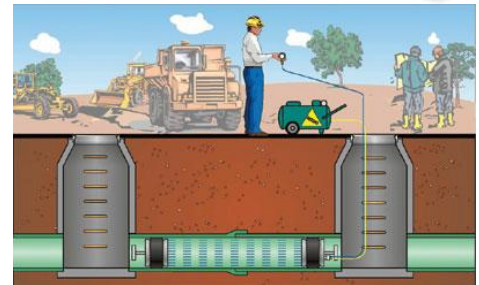
Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
email: sales@PetersenProducts.com

## Pipe Plugs, Mechanical, T-Handle Aluminum Test With & Without By-Pass, Pipe Sizes: 6" to 18", 143-7 Series

*Plugs for long-term applications*

143-7 Series T-Handle Aluminum Test Plugs With and Without By-Pass Sizes: 6" to 18"

- These plugs have a neoprene seal.
- These plugs are equipped with a heavy-duty aluminum body and T-handle with a chemical resistant neoprene seal.
- Ideal for long-term applications
- Can be used for sewer air pressure tests.
- Available with or without by-pass.
- Sizes 6" to 12" are sized for concrete, clay, and SDR 26 & 35 pipe.
- Sizes 15" & 18" are sized for concrete and clay pipe sizes only.



Pipe Diameter					Maximum Allowable Back Pressures*				By-Pass	Product			
Nominal in	Maximum mm	Minimum		Air Pressure psi	bar	Liquid Head Pressure		Dia in npt	Length in	Shpg Wt lbs	Item Number		
		in	mm			ft	m						
<b>T-Handle Aluminum Test Plugs Without By-Pass</b>													
6	150	6.3	160	5	0.34	40	12		9.7	247	6	143-7060	
8	200	8.3	211	5	0.34	40	12		9.7	247	9	143-7080	
10	250	10.3	262	5	0.34	40	12		9.7	247	12	143-7100	
12	300	12.3	312	5	0.34	40	12		9.7	247	16	143-7120	
15	380	15.3	388	5	0.34	30	9.1		9.7	247	23	143-7150	
18	460	18.3	465	5	0.34	20	6.1		9.7	247	30	143-7180	
<b>T-Handle Aluminum Test Plugs With By-Pass</b>													
6	150	6.3	160	5	0.34	40	12	1/4 M	9.7	247	7	143-7060-8	
8	200	8.3	211	5	0.34	40	12	3/4 M	9.7	247	10	143-7080-8	
10	250	10.3	262	5	0.34	40	12	3/4 M	9.7	247	13	143-7100-8	
12	300	12.3	312	5	0.34	40	12	3/4 M	9.7	247	16	143-7120-8	
15	380	15.3	388	5	0.34	30	9.1	3/4 M	9.7	247	24	143-7150-8	
18	460	18.3	465	5	0.34	20	6.1	3/4 M	9.7	247	31	143-7180-8	

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
email: sales@PetersenProducts.com

www.PetersenProducts.com

*Able to seal damaged threads and used for testing*

### Reinforced ABS & SS Threaded Plugs Features:

- These plugs have a natural rubber o-ring seal.
- Guaranteed to seal any damaged threads
- Made with glass-reinforced ABS plastic
- Black color blends well with cast-iron pipe
- Stainless steel hardware
- NPT sizes, including hard to find 3½"
- Patented natural rubber threaded o-ring for positive seal

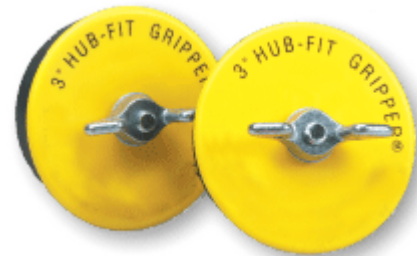
Range of Use	Maximum Back Pressure*	Length	Shpg Wt lbs	Item Number
2.17"-2.46" (55-62 mm)	17 psi	40 ft.	1.9"	1 143-8020
3.23"-3.5" (82-88 mm)	17 psi	40 ft.	2.2"	1 143-8030
3.78"-4.25" (96-107 mm)	17 psi	40 ft.	2.2"	1 143-8035
4.28"-4.63" (108-117 mm)	17 psi	40 ft.	2.2"	1 143-8040



### Reinforced ABS & Steel DWV Hub Test Plugs Features:

- Ideal for use in hub fittings and in bell-end pipe
- Pressure rated for conducting DWV tests
- Made with glass-reinforced ABS plastic
- Yellow color for greater visibility in pipe
- Natural rubber o-ring for positive seal
- Galvanized carriage bolt to prevent corrosion
- Easy-to-install, extra large zinc wing nut - won't rust

Range of Use	Maximum Back Pressure*	Length	Shpg Wt lbs	Item Number
2.35"-2.49" (59-63 mm)	13 psi(0,9 bar)	30 ft.(9 M)	1.9"(48 mm)	1 143-8020-B
3.55"-3.85" (90-97 mm)	13 psi(0,9 bar)	30 ft.(9 M)	2.4"(61 mm)	1 143-8030-B
4.44"-4.83" (112-122 mm)	13 psi(0,9 bar)	30 ft.(9 M)	2.4"(61mm)	1 143-8040-B



See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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 email: sales@PetersenProducts.com

*To be used for DWV Testing and Stack Testing*

Petersen's Gripper plugs can be used in a variety of applications including DWV (drain, waste and vent) testing and stack testing. End-of-Pipe design won't fall in, whereas the Inside-of-Pipe design allows you to locate the plug inside the pipe as far as you need. Time tested, the Gripper® remains one of the most popular mechanical plugs on the market.

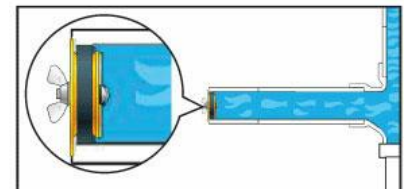
- End of pipe design won't fall in, whereas the inside of pipe design allows you to locate the plug inside the pipe as far as you need.
- Time tested, this Plug remains one of the most popular mechanical plugs on the market.

**Features:**

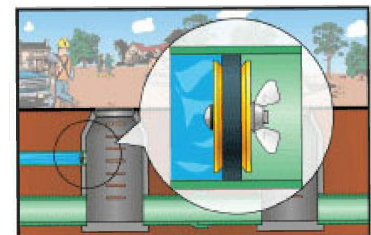
- Ideal for sewer testing and long-term applications
- Made with glass-reinforced ABS plastic
- End of pipe design seals only at the end of a pipe
- Inside of pipe design seals inside pipe as far as needed

**Equipped with:**

- Easy to install extra large zinc wing nut - won't rust
- Natural rubber o-ring
- Galvanized carriage bolt to prevent corrosion



End of Pipe Plug



Inside of Pipe Plug

Nominal Size	Range of Use	Maximum Back Pressure	Length	Shpg Wt lbs	Item Number
<b>End of Pipe Plug</b>					
1 1/2" (40 mm)	1.48"-1.65" (39-42 mm)	17 psi (1,2 bar)	40 ft. (12 M)	1.75" (44.5 mm)	1 143-9015-E
2" (50 mm)	1.9"-2.17" (49-55 mm)	17 psi (1,2 bar)	40 ft. (12 M)	1.87" (47.5 mm)	1 143-9020-E
3" (75 mm)	2.8"-3.1" (71-79 mm)	17 psi (1,2 bar)	40 ft. (12 M)	2.5" (63.5 mm)	1 143-9030-E
4" (100 mm)	3.8"-4.06" (96-103 mm)	17 psi (1,2 bar)	40 ft. (12 M)	2.5" (63.5 mm)	1 143-9040-E
6" (150 mm)	5.77"-6.08" (147-154 mm)	17 psi (1,2 bar)	40 ft. (12 M)	3.75" (95.3 mm)	2 143-9060-E
8" (200 mm)	7.7"-8.03" (196-204 mm)	17 psi (1,2 bar)	40 ft. (12 M)	3.75" (95.3 mm)	3 143-9080-E
<b>Inside of Pipe Plug</b>					
4" (100 mm)	3.8"-4.06" (96-103 mm)	17 psi (1,2 bar)	40 ft. (12 M)	2.5" (63.5 mm)	1 143-9040
6" (150 mm)	5.77"-6.08" (147-154 mm)	17 psi (1,2 bar)	40 ft. (12 M)	3.75" (95.3 mm)	2 143-9060
8" (200 mm)	7.7"-8.03" (196-204 mm)	17 psi (1,2 bar)	40 ft. (12 M)	3.75" (95.3 mm)	3 143-9080

Always block plugs when conducting air tests

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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 email: sales@PetersenProducts.com

*To be used for DWV Testing and Stack Testing*

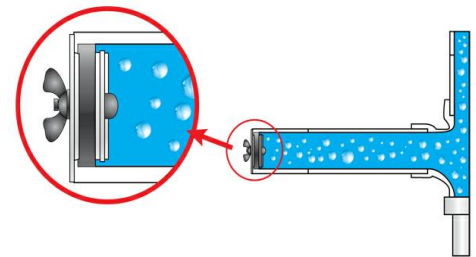
These Plugs can be used in a variety of applications including DWV (drain, waste and vent) testing and stack testing.

Features:

- Ideal for sewer testing and long-term applications
- Made with high impact ABS material
- End of pipe design seals only at the end of a pipe
- End of pipe design won't fall into the pipe.

Equipped with:

- Easy to install extra large zinc wing nut - won't rust
- Neoprene rubber o-ring
- Galvanized carriage bolt to prevent corrosion



Nominal Size	Range of Use	Maximum Back Pressure		Shpg Wt lbs	Item Number
End of Pipe Plug					
1 1/2" (40 mm)	1.48"-1.65" (39-42 mm)	5 psi (0.34 bar)	11 ft. (3 M)	1	144-1015-E
2" (50 mm)	1.9"-2.17" (49-55 mm)	5 psi (0.34 bar)	11 ft. (3 M)	1	144-1020-E
4" (100 mm)	3.8"-4.06" (96-103 mm)	5 psi (0.34 bar)	11 ft. (3 M)	1	144-1040-E

Always block plugs when conducting air tests

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Install Plug Into Pipeline and Remove Handle

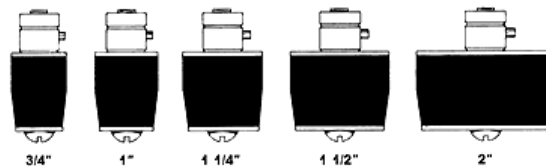
Typical Uses Include:

- Block pipeline against tampering and gas theft
- Test pipeline for leakage
- Test intermediate pressure regulator

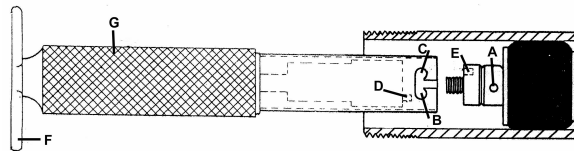
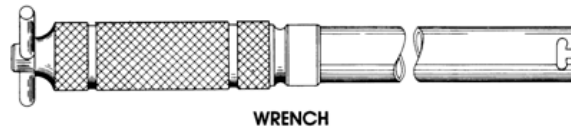
These plugs come with a Nitrile rubber seal.

These plugs are not pressure rated and customer must determine application suitability

Remote Placement Expander Plugs					
Plug Diameter		Expanded		Shpg	Item
in	mm	in	mm	Wt lbs	
0.57	14	0.75	19	1	148-3050
0.75	19	1	25	1	148-3075
1	25	1.25	31	1	148-3100
1.25	31	1.5	38	1	148-3125
1.5	38	1.75	44	1	148-3150
2	50	2.25	57	1	148-3200



Wrenches (All wrenches will fit all plug sizes)			
Length		Shpg	Item
in	mm	Wt lbs	
7	177	1	148-3007
12	305	1	148-3012
18	457	2	148-3018
24	610	3	148-3024



### INSTALLATION INSTRUCTIONS

1. Slip the plug onto the end of the wrench engaging pin "A" into the slot at the end of the wrench.
2. Turn the pin "A" into notch "B". This will hold the plug onto the end of the wrench.
3. Turn the wrench handle "F" clockwise with one hand while holding the wrench at "G" with the other until pin "D" on the wrench drops into the hole "E" in the Expander plug nut.
4. Insert the plug into the fitting or pipe.
5. Hold the wrench at "G" and turn the handle "F" clockwise to expand the plug.

To remove the wrench just push in on the wrench and turn clockwise enough to let pin "A" out of notch "B" and out the slot at the end of the wrench.

### REMOVAL INSTRUCTIONS

1. Slip notch in end of wrench over pin "A" and turn wrench right engaging pin "A" into notch at "C."
2. Hold the wrench at "G" with one hand and turn the wrench handle "F" counter clockwise to release the plug.
3. Remove the plug with the wrench.

Only hand tighten the plug to prevent damage to the wrench or plug. In expanding the plug, don't use any extra leverage on the wrench handle "F" as it is not necessary to tighten the plug any tighter than the ordinary man can pull on handle "F." Any extra leverage would tend to damage the wrench or the plug.

**See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products**

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com



**Pipe Plugs, Mechanical, Hand Tightening Aluminum Body Test With & Without By-Pass,  
Pipe Sizes: 1.5" to 12", 149-1 & 149-2 Series**

*Mechanical Test Plugs with by-pass for all low pressure sealing requirements*

Precision Aluminum and Steel And Molded Rubber For Tight Seal Single test plugs for all low pressure sealing requirements. These plugs are not pressure rated and customer must determine application suitability. Natural rubber. Replacement rubber and other rubber compounds also available.

**Single Size Test Plugs with By-pass**

**Single Test Plugs with Flow-Thru 1-1/2" - 8" Diameter.** Easy to use for testing or sealing a variety of pipes and fittings. Short, hollow stems allow easier turning in pipes and permit filling or draining without removing the plug.



**Single Test Plugs 10" - 12" Diameter with Flow-Thru.** Designed with a lever-type handle to easily expand molded rubber sealing ring. Hollow stems allow filling or draining without removing plug.

Pipe Diameter						Maximum Pressures*				By-Pass Size	Shpg Wt	Item Number
Nominal	Maximum	Relaxed	Maximum	Maximum	Total	Maximum	Maximum	Total				
in	mm	in	mm	in	mm	Pipe	Head	Force	Area	in	lbs	
1.5	38	2.1	53	1.5	38	25 psig	57 ft	213	1.7 sq in	3/8"	1	149-101
2	50	2.25	57	1.8	45	25 psig	57 ft	412	3.3 sq in	3/8"	1	149-102
3	76	3.25	82	2.75	69	25 psig	57 ft	945	7.0 sq in	3/8"	2	149-103
4	101	4.15	105	3.75	95	25 psig	57 ft	438	12.5 sq in	1/2"	2	149-104
5	127	5.25	133	4.65	118	25 psig	57 ft	488	19.5 sq in	1/2"	3	149-105
6	152	6.5	165	5.8	147	10 psig	23 ft	560	28.0 sq in	1/2"	4	149-106
8	203	8.25	209	7.85	199	5 psig	11 ft	404	50.5 sq in	1/2"	8	149-108
10	254	10.6	269	10.15	257	n/a	n/a	n/a	78.5 sq in	3/4"	13	149-110
12	304	12.7	322	12.1	307	n/a	n/a	n/a	113.0 sq in	3/4"	16	149-112



**Flexible Double Test Plugs**

1-1/2" - 8" Diameter, Center to Center Distances to 96".

Plug does the work of three plugs in one. Both balls on the 1-1/2" and 2" plugs release with the same handle, the lower ball, however, releases before the upper ball. The 3" - 8" sizes have two handles so each ball can be released separately.



**Typical Installations**

The ball is molded of pure rubber, molded parallel ridges insure perfect seal. Castings are of non-rust aluminum. Handles are of coated steel. All parts are replaceable. Blowouts and water damage are prevented because the Plug allows the system

Pipe Diameter						Maximum Pressures*				Shpg Wt	Item Number
Nominal	Maximum	Relaxed	Maximum	Maximum	Total	Maximum	Maximum	Total			
in	mm	in	mm	in	mm	Pipe	Head	Force	Center To Center	lbs	
1.5	38	1.75	44	1.55	39	25 psig	57 ft	213	12"	2	149-201
2	50	2.1	53	1.8	45	25 psig	57 ft	412	12"	3	149-202
3	76	3.25	82	2.75	69	25 psig	57 ft	945	12"	6	149-203
4	101	4.15	105	3.75	95	25 psig	57 ft	438	12"	8	149-204
5	127	5.25	133	4.75	120	10 psig	23 ft	488	16"	8	149-205
6	152	6.5	165	5.85	148	10 psig	23 ft	560	16"	11	149-206
8	203	8.25	209	7.85	199	5 psig	11ft	404	22"	20	149-208



See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

*Repair without draining the entire water system*

- These plugs have a molded silicone/epdm composite rubber seal.
- With this plug, you can go into any situation and have immediate control of the water system
- Do the pipe repair as soon as you get to the job. No waiting for water to completely drain.
- Have immediate control over draining or siphoning water.
- Keep costs down so you can secure more "Contract" work.
- Never lose money on "Contract" work due to uncontrollable draining water.
- Service hotels, motels, and apartments more easily.
- The EZ-Swet easily pays for itself in one or two jobs.
- Maximum 60 psig water pressure. Open valve and let water run to reduce pressure if necessary.

Single Size Line Stopper Plugs Without By-Pass							
Pipe Diameter		Relaxed		By-Pass Size in	Handle Length in	Shpg Wt lbs	Item Number
in	mm	in	mm				
0.5	12	0.465	11.81		6.38	1	148-0005
0.75	19	0.65	16.51		7	1	148-0007
1	25	0.86	21.84		7	1	148-0010
1.25	31	1.185	30.1		8.5	1	148-0012
1.5	38	1.41	35.81		8.5	1	148-0015
2	50	1.77	44.96		10.5	2	148-0020
2.5	63	2.3	58.42		12.5	3	148-0025
3	76	2.75	69.85		12.5	4	148-0030
4	101	3.8	96.52		16	5	148-0040
Single Size Line Stopper Plugs With By-Pass							
2.5	63	2.3	58.42	0.5	13.5	3	148-0025-8
3	76	2.75	69.85	0.5	13.5	4	148-0030-8
4	101	3.8	96.52	0.5	17	5	148-0040-8



EZ-Swet By-Pass Plugs are built with a 1/2" cavity down the center of the tool to allow water or air to drain from the system while the repair is in progress. They are made from the same "professional grade" materials as the EZ-Swet and have a hose connection attached to the end of the hollow handle. This connection allows you to attach a garden hose to the end of the tool which directs the draining water to a floor sink or gutter while you continue the repair. Another feature of this plug is not only can water be drained, but in instances of working on pools or similar projects, an air supply at a maximum of 60 lbs. can be added through the plug into the plumbing system for pressure testing. These plugs are cleaner, more controllable, multi functional, and effect a quicker repair on any system. These by-pass plugs are not made for line testing as there may be slight seepage past the tightening stem.

Maximum 60 psig water pressure. Open valve and let water run to reduce pressure if necessary.

**See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products**

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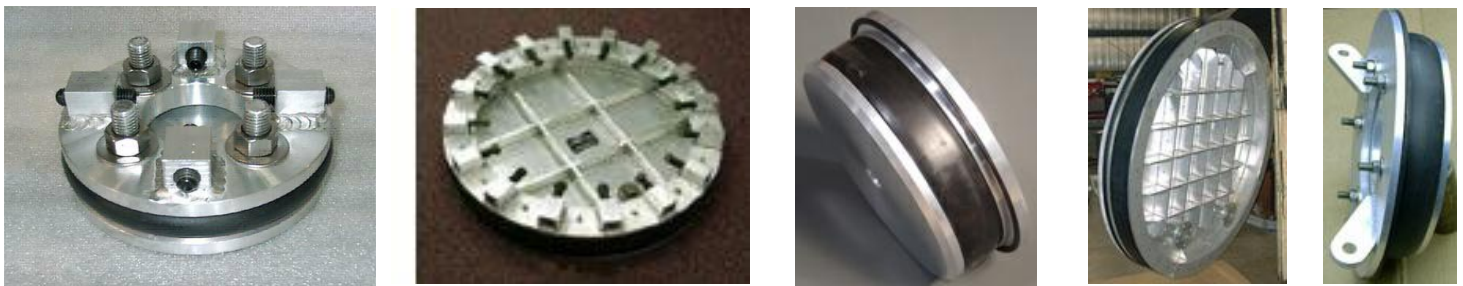
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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

**Pipe Plugs, Mechanical, High Pressure Test, Pipe Sizes: 2.469" to 144", 145-9 Series**

*Available with solid rubber seals or Inflatable Line Stop™ seals. Easy installation, replaceable seals, lightweight aluminum, positive seal and hold against line pressure*

- Available with solid rubber seals or Inflatable Line Stop™ seals. Easy installation, replaceable seals, lightweight aluminum, positive seal and hold against line pressure.
- Typical Applications: Force and water main, lift stations, nuclear cooling lines, fire protection lines, special plant situations, irrigation supply lines, and many other projects where isolation is required for testing and construction.
- These Plugs may be manufactured for almost any pressure and for rectangular or other shaped opening.

**Note:** Rated pressures listed are for steel pipe only. Other pipe materials would have a lower pressure rating or require additional restraints.



Pipe Size				Maximum* Head Pressure		By-Pass Port in npt	Shpg Wt lbs
Maximum in	Minimum mm	in	mm	psig	ft		
2.625	66	2.469	62	200	460	1/8 F	2
2.812	71	2.625	66	200	460	1/8 F	2
3	76	2.812	71	200	460	1/8 F	2
3.188	80	3	76	200	460	1/8 F	3
3.375	85	3.188	80	200	460	1/8 F	3
3.562	90	3.375	85	200	460	1/8 F	3
3.75	95	3.562	90	200	460	1/8 F	3
4.125	104	3.75	95	200	460	1/4 F	3
4.5	114	4.125	104	100	230	1/4 F	3
4.875	123	4.5	114	100	230	1/4 F	4
5.25	133	4.875	123	100	230	1/4 F	4
5.625	142	5.25	133	100	230	1/4 F	5
6	152	5.625	142	100	230	1/2 F	5
6.375	161	6	152	100	230	1/2 F	6
6.75	171	6.375	161	100	230	1/2 F	6
7.125	180	6.75	171	100	230	1/2 F	7
7.625	193	7.125	180	100	230	3/4 F	8
8.125	206	7.625	193	100	230	3/4 F	10
8.625	219	8.125	206	100	230	3/4 F	11
9.125	231	8.625	219	100	230	3/4 F	12
9.625	244	9.125	231	100	230	3/4 F	14
10.125	257	9.625	244	100	230	1 F	17
10.625	269	10.125	257	100	230	1 F	17
11.125	282	10.625	269	100	230	1 F	31
11.875	301	11.125	282	100	230	1 F	31
12.625	320	11.875	301	100	230	1 F	31

Pipe Size				Maximum* Head Pressure		By-Pass Port in npt	Shpg Wt lbs
Maximum in	Minimum mm	in	mm	psig	ft		
13.375	339	12.625	320	100	230	1 1/2 F	34
14.125	358	13.375	339	100	230	1 1/2 F	34
14.875	377	14.125	358	100	230	1 1/2 F	40
15.625	396	14.875	377	100	230	1 1/2 F	44
16.375	415	15.625	396	100	230	1 1/2 F	44
17.125	434	16.375	415	100	230	2 F	63
17.875	454	17.125	434	100	230	2 F	63
18.875	479	17.875	454	100	230	2 F	65
19.875	504	18.875	479	100	230	2 F	65
20.875	530	19.875	504	100	230	2 F	70
21.875	555	20.875	530	100	230	2 1/2 F	75
22.875	581	21.875	555	100	230	2 1/2 F	78
23.875	606	22.875	581	100	230	2 1/2 F	85
24.875	631	23.875	606	100	230	2 1/2 F	96
25.875	657	24.875	631	100	230	2 1/2 F	105
26.875	682	25.875	657	100	230	3 F	113
27.875	708	26.875	682	100	230	3 F	120
28.875	733	27.875	708	100	230	3 F	130
29.875	758	28.875	733	100	230	3 F	140
30.875	784	29.875	758	100	230	3 F	146
31.875	809	30.875	784	100	230	3 F	152
32.875	835	31.875	809	100	230	3 F	158
33.875	860	32.875	835	100	230	3 F	165
34.875	885	33.875	860	100	230	3 F	170
35.875	911	34.875	885	100	230	3 F	176

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com



## Pipe Plugs, Mechanical, Bolt Type Medium Pressure Test With By-Pass, Pipe Sizes: .28" to 10.5", 146-9 Series

### Simple, reliable testing of a pipeline

- Typical Applications: Designed for simple, reliable testing of pipe and tubing to 250 psig (17 bar), without the tube wall damage associated with other test plugs. That's because our Bolt Type Plugs feature a Nitrile seal - the only part of the plug that comes in contact with the tube I.D. To use, simply install into the open end of the pipe or tube and tighten the large compression nut to expand the seal element. Then begin testing.
- Plug sizes smaller than .375" come standard with Neoprene seals, others are Nitrile seals for hydrocarbon resistance. Plated carbon steel.  
note: caps are not included with these plugs - please see Pipe Plugs and Packers Accessories page.

**Pipe I.D. Size Range		Nom Pipe Size in	Rated Pressure* psig bar	By-Pass Connection NPT	Overall Length		Relaxed Seal Length in	Shpg Wt lbs	Item Number			
Minimum in	Maximum mm				in	mm						
0.28	7.1	0.299	7.6	250	17	1/8M	4.25	108	1.125*	1	146-00030	
0.3	7.6	0.329	8.4	250	17	1/8M	4.25	108	1.125*	1	146-00033	
0.33	8.4	0.369	9.4	250	17	1/8M	4.25	108	1.125*	1	146-00037	
0.375	9.5	0.406	10.3	300	21	1/8M	5	127	2	1	146-90040	
0.406	10.3	0.44	11.2	300	21	1/8M	5	127	2	1	146-90044	
0.44	11.2	0.51	13	300	21	1/8M	5	127	2	1	146-90051	
0.51	13	0.562	14.3	300	21	1/8M	5	127	2	1	146-90056	
0.562	14.3	0.625	15.9	300	21	1/8M	5	127	2	1	146-90063	
0.625	15.9	0.69	17.5	250	17	1/4M	6.75	127	2	1	146-90069	
0.69	17.5	0.76	19.3	250	17	1/4M	6.75	171	2	1	146-90075	
0.76	19.3	0.83	21.1	250	17	1/4M	6.75	171	2	1	146-90083	
0.83	21.1	0.89	22.6	250	17	1/4M	6.75	171	2	1	146-90088	
0.89	22.6	1.01	25.7	1 S80	250	17	1/4M	6.75	171	2	1	146-90100
1.01	25.7	1.13	28.7	1 S40	250	17	1/4M	6.75	171	2	1	146-90113
1.13	28.7	1.26	32	1-1/4 S160	200	14	1/4M	8	171	2.5	1	146-90125
1.26	32	1.38	35.1	1-1/4 S40	200	14	1/4M	8	171	2.5	1	146-90138
1.38	35.1	1.51	38.4	1-1/4 S80	200	14	1/4M	8	171	2.5	1	146-90150
1.51	38.4	1.63	41.4	1-1/2 S160	150	10	3/8M	9.5	241	3	1	146-90163
1.63	41.4	1.76	44.7	1-1/2 S40	150	10	3/8M	9.5	241	3	1	146-90175
1.76	44.7	1.88	47.8	2 S160	150	10	3/8M	9.5	241	3	1	146-90188
1.88	47.8	2.01	51.1	2 S80	150	10	3/8M	9.5	241	3	1	146-90200
2.01	51.1	2.18	55.4	2 S40	100	7	3/8M	9.5	241	3	2	146-90218
2.18	55.4	2.31	58.7	2-1/2 S160	100	7	3/8M	9.5	241	3	2	146-90231
2.31	58.7	2.51	63.7	2-1/2 S40	100	7	3/8M	9.5	241	3	2	146-90250
2.51	63.7	2.69	68.3	2-1/2 S80	100	7	3/8M	9.5	241	3	2	146-90269
2.69	68.3	2.88	73.2	3 S160	100	7	3/8M	9.5	241	3	2	146-90288
2.88	73.2	3.07	78	3 S40	100	7	3/8M	9.5	241	3	2	146-90307
3.07	78	3.26	82.8	3 S80	100	7	3/8M	9.5	241	3	2	146-90326
3.26	82.8	3.51	89.2	80	6	3/8M	9.5	241	3	2	146-90326	
3.51	89.2	3.76	95.5	3-1/2 S80	80	6	3/8M	9.5	241	3	2	146-90351
3.76	95.5	4.06	103.1	3-1/2 S40	80	6	3/8M	9.5	241	3	2	146-90376
4.45	113	4.5	114.5	4 S40	80	6	3/8M	9.5	241	3	2	146-90406
4.95	125.7	5	127	4 S80	40	2.8	3/8M	4.63	117.5	1.75*	4.5	146-90450
5.34	138.4	5.5	139.7	25	1.7	1/2M	6.75	171.5	3.00*	13	146-90500	
5.95	151.1	6	152.4	25	1.7	1/2M	6.75	171.5	3.00*	13	146-90550	
6.45	163.8	6.5	165.3	25	1.7	1/2M	6.75	171.5	3.00*	13	146-90600	
6.95	176.5	7	177.8	25	1.7	1/2M	6.75	171.5	3.00*	13	146-90650	
7.95	201.9	8	203.2	15	1	3/4M	7.38	187.4	3.50*	28.5	146-90700	
9.95	252.7	10	254	15	1	3/4M	7.38	187.4	3.50*	28.5	146-90800	
10.45	254.43	10.5	267	10	0.7	3/4F	6.13	155.7	2.50*	40	146-91000	
				10	0.7	3/4F	6.13	155.7	2.50*	40	146-91050	

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

Continued next page for additional sizes and material notes

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## Pipe Plugs, Mechanical, Bolt Type Medium Pressure Test With By-Pass, Pipe Sizes: .28" to 10.5", 146-9 Series (Continued)

These plugs come standard with Nitrile Seals.

\*\*Add suffix to part number:

"S" for Silicone

"V" for Fluoro-elastomer

\*\*Also add second suffix for I.D. of test pipe. (Plug O.D. will be 0.03" smaller than pipe I.D.)

### Custom Configurations

These plugs are available with a variety of seal material including Nitrile, EPDM, Viton, Silicone, and Polyurethane for most size, pressure, temperature, and chemical requirements.

The 146-9 Series Plugs are generally made with an aluminum body and steel hardware but are available with many other materials for your specific requirements.

They are available with or without by-pass (vent), valves, remote placement systems, sub sea installation, and many other configurations.

See [www.petersenproducts.com/146-9\\_pipe\\_plug.aspx](http://www.petersenproducts.com/146-9_pipe_plug.aspx) for further custom examples

Please call us and let us quote on your specific requirements 800-926-1926



High Pressure Caps for 146-9 and 147 Series Plugs



Description	Shpn Wgt Lbs	Item Number
High Pressure Caps for 1/8" MNPT	1	936-1467-013
High Pressure Caps for 1/4" MNPT	1	936-1467-025
High Pressure Caps for 3/8" MNPT	1	936-1467-038
High Pressure Caps for 1/2" MNPT	1	936-1467-050
High Pressure Caps for 3/4" MNPT	1	936-1467-075
High Pressure Caps for 3/4" FNPT	1	936-1467-075F

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## Pipe Plugs, Mechanical, Bolt Type High Pressure Test, Pipe Sizes: .53" to 24", 147 Series

*High Pressure Test Plugs use the test pressure to help seal more securely against the pipe's inner diameter*

Typical Applications: Force and water main, lift stations, nuclear cooling lines, fire protection lines, special plant situations, irrigation supply lines, and many other projects. Plugs pictured with optional high pressure caps.



Nominal Pipe Size	By-Pass Sched	Connection NPT	Pipe I.D. Size Range		*Maximum Test Pressure (2)(3) psig	Std. Seal Mat'l (4)	Shaft Qty	Installation Depth		Overall Length		Shpg Wt lbs	Item Number			
			Maximum in	Minimum mm				in	mm	in	mm			in	mm	
2.5	80/XS	3/8M	2.45	62.2	2.27	57.7	5,900	410	U	1	2.88	73	7	177.8	4	147-0025-P80
3	XXS	3/8M	2.45	62.2	2.27	57.7	11,100	770	U	1	2.88	73	7	177.8	4	147-0030-PXXS
2.5	40 / STD	1/2M	2.54	64.5	2.44	62	4,200	290	U	1	3	76.2	9	227	6	147-0025-P40
2.5	10	1/2M	2.74	69.6	2.6	66	2,400	170	U	1	3.31	84.1	9	227	7	147-0025-P10
3	160	1/2M	2.74	69.6	2.6	66	7,800	540	U	1	3.31	84.1	9	227	7	147-0030-P160
2.5	5	1/2M	2.78	70.6	2.68	68.1	1,600	110	U	1	3	76.2	9	227	7	147-0025-P5
3.5	XXS	1/2M	2.89	73.4	2.7	68.6	10,200	700	U	1	3.5	88.9	9	227	8	147-0035-PXXS
3	80/XS	1/2M	2.98	75.7	2.87	72.9	5,200	360	U	1	3.19	81	9	227	8	147-0030-P80
3	40 / STD	1/2M	3.14	79.8	3.04	77.2	3,700	260	U	1	3.19	81	9	227	8	147-0030-P40
4	XXS	1/2M	3.32	84.3	3.12	79.2	9,500	660	U	1	3.81	96.8	9	227	9	147-0040-PXXS
3	10	1/2M	3.34	84.8	3.23	82	2,000	140	U	1	3.19	81	9	227	9	147-0030-P10
3	5	1/2M	3.41	86.6	3.3	83.8	1,400	100	U	1	3.19	81	9	227	9	147-0030-P5
3.5	80/XS	1/2M	3.44	87.4	3.33	84.6	4,800	330	U	1	3.31	84.1	9	227	9	147-0035-P80
4	160	1/2M	3.57	90.7	3.41	86.6	7,400	510	U	1	3.69	93.7	9	227	10	147-0040-P160
3.5	40 / STD	1/2M	3.63	92.2	3.52	89.4	3,300	230	U	1	3.31	84.1	9	227	10	147-0035-P40
4	120	1/2M	3.74	95	3.6	91.4	6,000	410	U	1	3.63	92.1	9	227	11	147-0040-P120
3.5	10	1/2M	3.84	97.5	3.73	94.7	1,700	120	U	1	3.31	84.1	9	227	11	147-0035-P10
3.5	5	1/2M	3.91	99.3	3.8	96.5	1,200	80	U	1	3.56	90.5	9	227	12	147-0035-P5
4	80/XS	1/2M	3.91	99.3	3.8	96.5	4,500	310	U	1	3.56	90.5	9	227	12	147-0040-P80
4	40 / STD	1/2M	4.11	104.4	4	101.6	3,100	210	U	1	3.63	92.1	9	227	12	147-0040-P40
5	XXS	1/2M	4.25	108	4.03	102.4	8,500	590	U	1	4.31	109.5	9	227	14	147-0050-PXXS
4	5	3/4M	4.47	113.5	4.28	108.7	1,100	80	N	1	4.69	119.1	10.13	257.2	18	147-0040-P5
5	160	3/4M	4.47	113.5	4.28	108.7	7,000	480	N	1	4.69	119.1	10.13	257.2	18	147-0050-P160
5	120	3/4M	4.69	119.1	4.53	115.1	5,500	380	N	1	4.56	115.9	10.13	257.2	20	147-0050-P120
5	80/XS	3/4M	4.91	124.7	4.78	121.4	4,000	280	N	1	4.44	112.7	10.13	257.2	21	147-0050-P80
6	XXS	3/4M	5.11	129.8	4.87	123.7	8,200	570	N	1	5.06	128.6	10.13	257.2	21	147-0060-PXXS
5	40 / STD	3/4M	5.14	130.6	5.02	127.5	2,700	190	N	1	4.44	112.7	10.13	257.2	22	147-0050-P40
6	160	3/4M	5.37	136.4	5.16	131.1	6,700	460	N	1	5	127	10.13	257.2	26	147-0060-P160
5	10	3/4M	5.39	136.9	5.27	133.9	1,400	100	N	1	4.44	112.7	10.13	257.2	24	147-0050-P10
5	5	3/4M	5.44	140	5.32	135.1	1,100	80	N	1	4.44	112.7	10.13	257.2	24	147-0050-P5

See [www.petersenproducts.com](http://www.petersenproducts.com) for complete range of sizes .53" to 24"

Other sizes and seal material available

See Previous page for high pressure caps

### IMPORTANT:

1. M = Male NPT, F = Female NPT
2. NEVER use a test pressure greater than the weakest component in the system can handle. Test Pressure specified in table is equivalent to 80% of the pressure that will yield ASTM A106 Grade B pipe. The test pressure for higher and lower strength pipes will differ proportionally. The maximum test pressure for higher strength pipe must never exceed the highest test pressure listed for that pipe O.D.
3. Sizes that do not have a test pressure listed differ from standard pipe sizes. These plug sizes are normally used to test tubing. For use of these plug sizes in tubing with a minimum yield strength of 35ksi, the maximum test pressure is estimated by the test pressure listed for the equivalent or next larger pipe O.D. with the equivalent or next thinner wall thickness. The test pressure for higher and lower strength tubes will differ proportionally. The maximum test pressure for higher strength tubes must never exceed the highest test pressure listed for the equivalent or next larger pipe size. NEVER use a test pressure greater than the weakest component in the system can safely handle.
4. Standard Seal Material: U = Urethane, N = Neoprene
5. These plugs were designed to operate in A106 grade B pipe with a hardness up to 20 on the Rockwell C scale (HRC 20). Plugs may be customized for hardness to HRC 25. Plugs for other hardness ratings require a customers pipe sample and further pressure testing.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

## Petersen Products Company

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
email: [sales@PetersenProducts.com](mailto:sales@PetersenProducts.com)

*Steam, sniff, purge, weld and test - all with the same plug*

The new and approved "High Lift" seal design permits greater seal to pipe clearance and higher seal expansion. This means the plug will easily pass over weld penetration. Grinding out deep root penetrations is eliminated.

This plug will reduce the expense, downtime delays, and waste disposal problems associated with conventional flange-to-pipe weld testing. Our High Lift Flange Weld Test Plug lets you monitor downstream conditions, isolate and purge the weld area, perform the weld, and hydro test weld joint to ANSI B16.5 requirements using only one tool. No blind flanging upstream, no vacuum truck for evacuating the line, and no X-raying. Just a simple, rock-solid tool that saves time and money every time you use it. Each test requires a minimum amount of water and there's no need to fill the entire line. You'll use less water and minimize your environmental liabilities.



- Fast, easy installation, and testing.
- Segmented compression tube allows adjustment of seal installation depth.
- Faster pipe repairs and retrofits.
- Improved Seal-to-Pipe Clearance: Plug can be easily installed and removed, even where there is severe weld protrusion.
- Low water requirements resulting in less waste water.
- A minimum of 1.5:1 safety factor.
- Rugged, heavy-duty construction.
- Versatile: Seal and washer sets easily change to accommodate different pipe schedules.
- Ported Center Shaft: Permits monitoring of downstream pressure of inert gas rejection.
- Flange classes 150 - 600 lbs.
- Seal Materials: Urethane Standard.
- Flange style is Raised Face type.
- Test plugs do not include flange gaskets or nuts & bolts.

Maximum Test Pressures		
ANSI	Maximum psig	
Flange Class	psi	bar
150	450	30.9
300	1125	77.2
600 & up	1125*	77.2*

Pipe Size	Crowfoot Wrench or Socket Size
3/4" to 1"	9/16" Crowfoot Wrench
1 1/4" to 2"	15/16" Crowfoot Wrench
2 1/2" to 4"	2" Deep Impact Socket
6" to 8"	3 1/8" Deep Impact Socket
10" to 24"	1 5/8" Deep Impact Socket

Continued Next Page

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**Pipe Plugs, Mechanical, High Lift Flange Weld Test, Pipe Sizes: 3/4" to 24", 151 Series (Continued)**

*Steam, sniff, purge, weld and test - all with the same plug*

Flange Size in	Class lb	Pipe Sched	Seal to Pipe Clearance		Vent & Fill Port Size in npt	L1-A Welding Plug Application		L1-B Test Plug Application		L2 Max		L3		L4		Shpg Wt lbs	Item Number
			in	mm		in	mm	in	mm	in	mm	in	mm	in	mm		
3/4 DN20	150	160	0.05	1.3	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	8	151-1007-P160
	150	80	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	8	151-1007-P80
	150	40	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	8	151-1007-P40
	150	10	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	8	151-1007-P10
	300	160	0.05	1.3	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-3007-P160
	300	80	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-3007-P80
	300	40	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-3007-P40
	300	10	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-3007-P10
	600	160	0.05	1.3	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-6007-P160
	600	80	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-6007-P80
1 DN25	600	40	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-6007-P40
	600	10	0.07	1.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-6007-P10
	150	XXS	0.04	1	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-1010-PXXS
	150	160	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-1010-P160
	150	80	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-1010-P80
	150	40	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-1010-P40
	150	10	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	9	151-1010-P10
	300	XXS	0.04	1	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-3010-PXXS
	300	160	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-3010-P160
	300	80	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-3010-P80
1 1/4 DN32	300	40	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-3010-P40
	300	10	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-3010-P10
	600	XXS	0.04	1	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-6010-PXXS
	600	160	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-6010-P160
	600	80	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-6010-P80
	600	40	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-6010-P40
	600	10	0.11	2.8	1/8 F	12	304.8	3	76.2	14.25	362	1.25	31.8	24.6875	627.1	11	151-6010-P10
	150	160	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	10	151-1012-P160
	150	80	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	10	151-1012-P80
	150	40	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	10	151-1012-P40
1 1/4 DN32	150	10	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	10	151-1012-P10
	300	160	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-3012-P160
	300	80	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-3012-P80
	300	40	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-3012-P40
	300	10	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-3012-P10
	600	160	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-6012-P160
	600	80	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-6012-P80
	600	40	0.13	3.3	1/8 F	12	304.8	3.375	85.7	15	381.2	1.625	41.3	20.3750	517.5	13	151-6012-P40

See [www.petersenproducts.com](http://www.petersenproducts.com) for complete range of sizes 3/4" to 24"

\* Seal-to-pipe clearance: approximately 1/2". Clearance may be slightly smaller on plugs that accommodate more than one schedule size. Replacement washers: required on all schedule sizes except for the smallest ID for each size pipe.

\*\* External O-ring: included on 10" and 12" seals.

Other flange class ratings and pipe schedules available upon request. Call for pricing.

Ordering information needed: flange size and rating, pipe ID or schedule, and test pressure.

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Pipe Plugs, Redwood Tapered, Pipe Sizes: 1/2" to 8" 140-1 Series

*Fast inexpensive way to seal a leak in gas and water lines*

Redwood pipe plugs work equally well for both gas and water lines, and are a fast inexpensive way to seal a leak. Redwood tapered plugs for emergency pipe repair are most commonly used by gas companies, fire departments, and municipal water departments. Environmentally friendly.



Pipe Size	Taper	Length	Shpng Wgt Lbs	Item Number
1/2" - 1-1/4"	1 1/2" - 3/8"	5-1/2"	1	140-10125
3/4" - 1-1/2"	1 7/8" - 1/2"	6"	1	140-10150
2"	2 1/2" - 1 5/8"	6"	1	140-10200
3"	3 1/2" - 2 1/2"	6"	2	140-10300
4"	4 1/2" - 3 1/2"	6"	3	140-10400
5"	6" - 4 5/8"	4"	3	140-10504
6"	6 7/8" - 5 3/8"	8"	3	140-10608
6"	7" - 5 3/8"	4"	3	140-10604
8"	9" - 7 1/2"	10"	8	140-10810
8"	9" - 7"	4"	5	140-10804

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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www.PetersenProducts.com

## Pipeline Joint Testers, Pipe Sizes: 24" to 120", 145-8 Series

*An efficient way to test joints!*

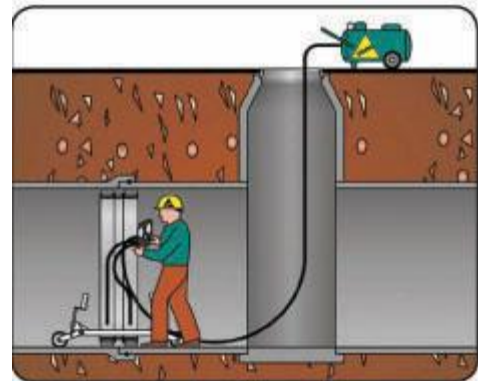
These pipeline joint testers are fast, safe, and easy to use - a five second test can determine the joint integrity. Designed to test large diameter, installed, pre-cast concrete pipe as described in ASTM C1103. Ready to test with water or air straight from the factory - no modifications are needed. Pre-test before backfilling. Capable of testing to 15 psi air or 50 psi water.

**Features:**

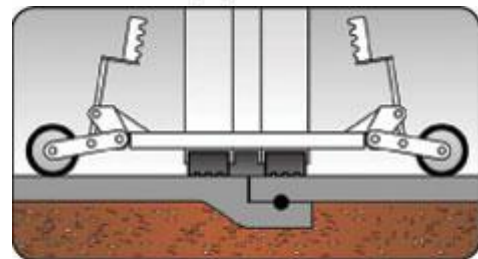
- Sleeveless, lightweight aluminum design allows for easy assembly in manholes
- Independent, adjustable wheels - easy to move
- Quick-connect control panel is simple to install and remove, plus the top-mounting feature won't interfere with laser usage
- Available with or without control panel and wheel kit
- Replacement end elements are available
- Recommended for testing pipe 24" and larger
- Made with natural rubber



Nominal Size		Product Diameter		Shpg Wt lbs	Item Number
in	mm	in	mm		
24	609	22	558	192	145-8024
27	685	25	635	202	145-8027
30	762	28	711	212	145-8030
33	838	31	787	222	145-8033
36	914	34	863	232	145-8036
39	990	37	939	237	145-8039
42	1066	40	1016	263	145-8042
48	1219	46	1168	257	145-8048
54	1371	52	1320	262	145-8054
60	1524	58	1473	267	145-8060
66	1676	64	1625	297	145-8066
72	1828	70	1778	420	145-8072
78	1981	76	1930	462	145-8078
84	2133	82	2082	510	145-8084
90	2286	88	2235	503	145-8090
96	2438	94	2387	565	145-8096
102	2590	100	2540	565	145-8102
108	2743	106	2692	565	145-8108
120	3048	118	2997	600	145-8120



Pipe joint test



Testing using air or water

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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**Lift Bags, Inflatable 145 or 116 PSI High Pressure HD Duty Bags and Accessories,  
 Sizes: 6" x 36", 161-5 Series**

*25% higher lift capacity than a conventional lift bag of the same size*

The series 161-5 high pressure heavy lifting air bags have up to 25% higher lift capacity than a conventional lift bag of the same size. This is due to the 25% higher inflation pressure, i.e. 145 PSI as compared to the conventional 116 PSI. In addition, they are lighter in weight and have a lower profile with an insertion height of only 0.9". The special rib design on the surface ensures perfect interlocking when stacking two lift bags. Each air bag has a minimum safety factor of 4 with a burst pressure of 580 PSI or more. They are compatible with and can be used with conventional 116 PSI inflation control systems. Two year limited warranty. Made of Aramid reinforced rubber compound. Operating Temperature: -40°F to 130°F



Left - Each bag is supplied with two nipples. The bottom one is a 1/4" safety nipple (with two ribs) and can only be used with a safety coupler which reduces the risk of possible injury or damage due to accidental air line disconnect. The top one is a 1/4" standard industrial interchange (SAE) nipple. Lower right in this photo is the 1/4 BSP threaded male stem which is also removable in case of thread damage.

Heavy Duty Lifting Bags																																																																																																																																						
Size	Thickness in	Lift Height in	Maximum Load tons	Inflation Pressure psi	Test Pressure psi	Burst Pressure psi	Shpg Wt lbs	Item Number																																																																																																																														
6"x6"	0.86	3.54	1.80	145	218	580	5	161-50606																																																																																																																														
		3.35	1.26	116					8"x8"	0.86	4.5	4.40	145	218	580	8	161-50808	4.5	3.25	116	12"x12"	0.86	6.9	8.80	145	218	580	10	161-51212	6.9	6.67	116	15"x15"	0.86	8.7	14.3	145	218	580	12	161-51515	8.5	11.4	116	17"x17"	0.86	9.60	20.00	145	218	580	15	161-51717	9.25	15.45	116	20"x20"	0.86	11.6	26	145	218	580	20	161-52020	11.0	21	116	22"x22"	0.86	12.6	33.0	145	218	580	20	161-52222	12.4	26.7	116	13"x40"	0.86	8.50	33.0	145	218	580	22	161-51340	8.26	26.7	116	24"x24"	0.86	13.6	42.0	145	218	580	25	161-52424	13.6	33.3	116	30"x30"	0.86	16.1	59.0	145	218	580	35	161-53030	16.0	47.5	116	33"x33"	0.86	18.3	74	145	218	580	45	161-53333	17.0	60	116	36"x36"	0.86	20.3	89	145	218
8"x8"	0.86	4.5	4.40	145	218	580	8	161-50808																																																																																																																														
		4.5	3.25	116					12"x12"	0.86	6.9	8.80	145	218	580	10	161-51212	6.9	6.67	116	15"x15"	0.86	8.7	14.3	145	218	580	12	161-51515	8.5	11.4	116	17"x17"	0.86	9.60	20.00	145	218	580	15	161-51717	9.25	15.45	116	20"x20"	0.86	11.6	26	145	218	580	20	161-52020	11.0	21	116	22"x22"	0.86	12.6	33.0	145	218	580	20	161-52222	12.4	26.7	116	13"x40"	0.86	8.50	33.0	145	218	580	22	161-51340	8.26	26.7	116	24"x24"	0.86	13.6	42.0	145	218	580	25	161-52424	13.6	33.3	116	30"x30"	0.86	16.1	59.0	145	218	580	35	161-53030	16.0	47.5	116	33"x33"	0.86	18.3	74	145	218	580	45	161-53333	17.0	60	116	36"x36"	0.86	20.3	89	145	218	580	50	161-53636	20.0	72	116						
12"x12"	0.86	6.9	8.80	145	218	580	10	161-51212																																																																																																																														
		6.9	6.67	116					15"x15"	0.86	8.7	14.3	145	218	580	12	161-51515	8.5	11.4	116	17"x17"	0.86	9.60	20.00	145	218	580	15	161-51717	9.25	15.45	116	20"x20"	0.86	11.6	26	145	218	580	20	161-52020	11.0	21	116	22"x22"	0.86	12.6	33.0	145	218	580	20	161-52222	12.4	26.7	116	13"x40"	0.86	8.50	33.0	145	218	580	22	161-51340	8.26	26.7	116	24"x24"	0.86	13.6	42.0	145	218	580	25	161-52424	13.6	33.3	116	30"x30"	0.86	16.1	59.0	145	218	580	35	161-53030	16.0	47.5	116	33"x33"	0.86	18.3	74	145	218	580	45	161-53333	17.0	60	116	36"x36"	0.86	20.3	89	145	218	580	50	161-53636	20.0	72	116																		
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See our web site for complete lifting curve charts

Continued Next Page

**See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products**

## Petersen Products Company

Tel 800-926-1926 / 262-692-2416 • Fax 262-692-2418  
 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Lift Bags, Inflatable 145 or 116 PSI High Pressure HD Duty Bags and Accessories, Sizes: 6" to 36", 161-5 Series (Continued)



Description	Connections	Shpg Wt lbs	Item Number
<b>Hoses</b>			
Hose, Inflation, black 3/8" ID x 16' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-50161
Hose, Inflation, blue 3/8" ID x 16' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-50162
Hose, Inflation, red 3/8" ID x 16' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-50163
Hose, Inflation, yellow 3/8" ID x 16' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-50164
Hose, Inflation, green 3/8" ID x 16' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-50165
Hose, Inflation, black 3/8" ID x 32' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	6	162-2038-50321
Hose, Inflation, blue 3/8" ID x 32' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	6	162-2038-50322
Hose, Inflation, red 3/8" ID x 32' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	6	162-2038-50323
Hose, Inflation, yellow 3/8" ID x 32' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	6	162-2038-50324
Hose, Inflation, green 3/8" ID x 32' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	6	162-2038-50325
<b>Inflation Controllers</b>			
Simple controller with 145 PSI relief valve, gauge and ball valve	1/4" Safety coupler and nipple	4	162-1110-50100
Simple controller with dual 145 PSI relief valve, gauges and ball valves	1/4" Safety coupler and nipple	2	162-1110-50200
Dual deadman controller with joysticks, 145 PSI	1/4" Safety coupler and nipple		162-1110-50300
<b>Relief Valves and Shut-Offs</b>			
145 PSI Relief Valve with Shutoff	1/4" Safety coupler and nipple	4	162-5210-9

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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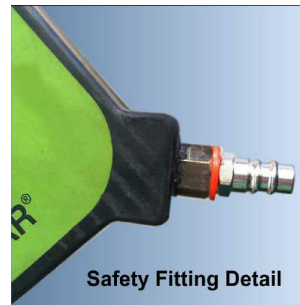
## Lift Bags, Inflatable High Pressure Flat Form, Sizes: 22" to 36", 161-0 Series

*Made for heavy duty, low profile heavy lifting, emergency rescue, HAZMAT management or industrial use*

The pneumatic high pressure flat form heavy lifting air bags are reinforced with Kevlar® cord for heavy duty, low profile heavy lifting, emergency rescue, HAZMAT management or industrial use. The Flat Form design bags eliminate the need for complicated height/weight computation graphs and uncertain lifting height calculations. Simply stated, a 34.1 ton bag will lift 34.1 tons to the specified height (see table). Flat Form bags safely link together when stacked, eliminating slipping or violent ejection. Maximum of three bags can be safely stacked. Flat Form bags retain their flat profile, eliminating rolling and shifting. Heavy duty design and Kevlar® reinforcing insure long life.



Made of Kevlar® reinforced \*NR-SBR rubber compound.  
 \* NR = Isoprene rubber, natural. SBR = Styrene-butadiene rubber.  
 Operating Temperature: -40°F to 130°F



Size	Thickness in	Lift Height in	Maximum Load	Flat Form Lifting Bags			Shpg Wt lbs	Item Number
				Inflation Pressure psi	Test Pressure psi	Burst Pressure psi		
22"x22"	1.1	6.7	7.7 tons	116	152	218	18	161-02222
24"x24"	1.1	6.7	12 tons	116	152	218	23	161-02424
31"x31"	1.1	8	20 tons	116	152	218	38	161-03131
36"x36"	1.1	8	35 tons	116	152	218	52	161-03636

Other length and fitting configurations also available

See Next Page for Accessories



See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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## Lift Bags, Inflatable High Pressure Flat Form, Accessories, 161-0 Series







### Hoses - Output

	Description	Connections	Shpg Wt lbs	Item Number
  Hose color to match item number	Hose, Inflation, red 3/8" ID x 35' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-9035-2
	Hose, Inflation, blue 3/8" ID x 35' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-9035-3
	Hose, Inflation, green 3/8" ID x 35' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-9035-4
	Hose, Inflation, black 3/8" ID x 35' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-9035-5


### Hoses - Supply

	Hose, Inflation, yellow 3/8" ID x 35' all-weather, with shut-off and pressure relief valve	1/4" Safety coupler and nipple	4	162-2038-9035-1
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### Inflation Controllers

     	Controller, single fitting, 116 psi with pressure gauge and pressure relief valve	1/4" Safety coupler and nipple	2	162-1011-8116
	Controller, dual fitting, 116 psi with pressure gauge and pressure relief valves	1/4" Safety coupler and nipple	4	162-1012-8116
	Controller, hand-held single fitting, 116 psi with pressure gauge and pressure relief valves	1/4" Safety coupler and nipple	3	162-1021-8116
	Controller, hand-held dual fitting, 116 psi with pressure gauge and pressure relief valves	1/4" Safety coupler and nipple	4	162-1022-8116
	Controller, dual joysticks, 116 psi with built-in safety relief valves	1/4" Safety coupler and nipple	7	162-1032-8116
	Controller, triple deadman, 116 psi with built-in pressure relief valves	1/4" Safety coupler and nipple	6	162-1023-8116


### Pressure Regulators

 Representative picture Actual may vary	Pressure Regulator Air, single stage 3000 max psi inlet, 0-125 psi outlet CGA 345 inlet, 9/16"-18 RH outlet	CGA 346 inlet, 9/16"-18 RH outlet	4	162-1110-80310
	Pressure Regulator Medical Air single stage 5500 max psi inlet, 0-125 psi outlet	CGA 347 inlet, 9/16"-18 RH outlet	2	162-1110-80320
	Pressure Regulator Argon/Nitrogen/Helium single stage 5500 max psi inlet, 0-200 psi outlet	CGA 680 inlet, 5/8"-18 RH (F) outlet	4	162-1110-80330
	Pressure Regulator Argon/Nitrogen/Helium single stage 3000 max psi inlet, 0-400 psi outlet	CGA 580 inlet, 3/8"-18NPT(M) outlet	2	162-1110-80340

### Flat Form Bag Connectors

	2-bag attachment set (4 per set)		4	162-1610-02
	3-bag attachment set (4 per set)		2	162-1610-03

### Miscellaneous

	In-line Shut-off Valve, 1/4" EU safety couplers	1/4" Safety coupler and nipple	6	162-1210-8
	In-line Shut-off Valve with relief valve; EU safety couplers	1/4" Safety coupler and nipple	1	162-1210-9

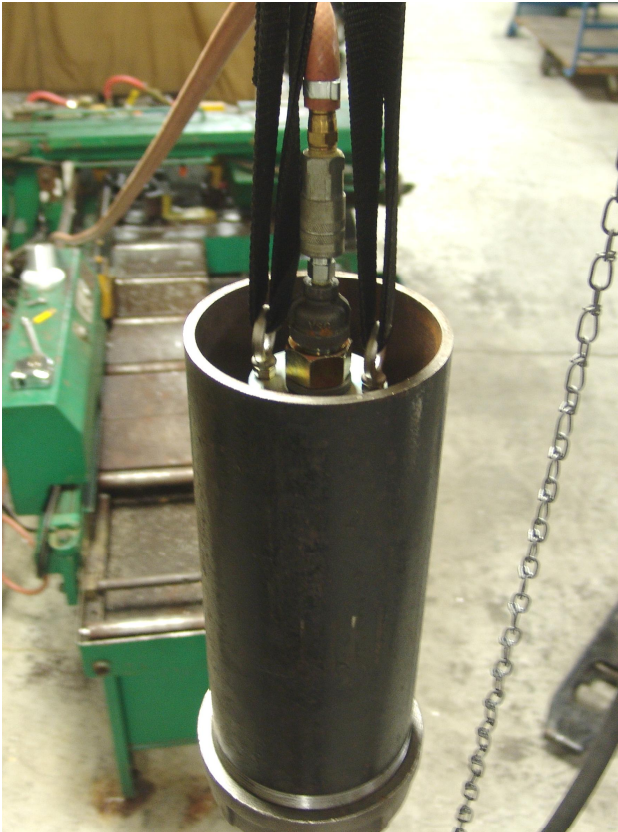
See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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*Manufactured to Customer Requirements*

These cylinder lift bags are manufactured to the customers requirements meeting most weight, temperature, and chemical requirements. They can be inflated with air, an inert gas or liquid. They have been used to lift, pull, and align tubes, pipes, transformers, and other types of equipment. They are not to be used for lifting over any personnel or where their failure would cause significant damage.



Call or send an email to let us quote an item that meets your specific requirements. Many configurations are available.

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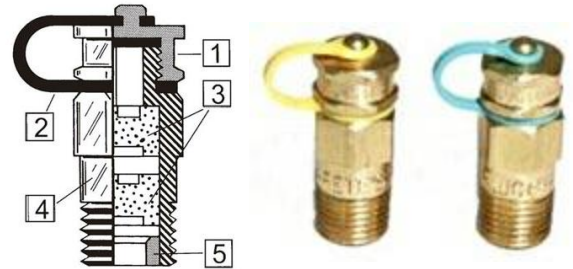
*Take pressure or temperature readings quickly without leaving costly gauges on the line.*

### Applications:

Pete's Plugs are well suited for most plant and pipeline systems including hot and chilled water systems, heat exchangers, pumps, differential readings, air, gas lines, and many other applications. The XL Pete's Plug will allow you to insulate the test point without adding extra fittings.

### Valve Materials:

Neoprene is a chloroprene based synthetic rubber and is resistant to deterioration from waxes, fats, oils, greases, petroleum products, and most refrigerants. Nordel is an ethylene-propylene based synthetic rubber for hot and cold water, low steam, detergents, phosphate esters, ketone, alcohols, and glycols. It is not suitable for petroleum products. Neoprene and nordel are proprietary materials of others and assume no liability for results obtained or damages incurred through the application of this information. The information is intended simply as a guide.



Size in npt	Length		Body & Cap Material	Valve Core Material	Probe Dia In.	Shpg Wt lbs	Item Number
	in	mm					
1/8 M	1.25	31	Brass	Neoprene	.125	0.5	311-125-00
1/4 M	1.5	38	Brass	Neoprene	.125	0.5	311-100
1/4 M	1.5	38	Brass	Nordel	.125	0.5	311-110
1/4 M	3	76	Brass	Neoprene	.125	0.5	311-100-XL
1/4 M	3	76	Brass	Nordel	.125	0.5	311-110-XL
1/4 M	1.5	38	316 SS	Neoprene	.125	0.5	311-400
1/4 M	1.5	38	316 SS	Nordel	.125	0.5	311-410
3/8 M	1.5	38	Brass	Neoprene	.125	0.5	311-300
3/8 M	1.5	38	Brass	Nordel	.125	0.5	311-310
1/2 M	1.5	38	Brass	Neoprene	.125	0.5	311-700
1/2 M	1.5	38	Brass	Nordel	.125	0.5	311-710
1/2 M	3	76	Brass	Neoprene	.125	0.5	311-700-XL
1/2 M	3	76	Brass	Nordel	.125	0.5	311-710-XL

### Operating Instructions

The cap protects the valve and provides an additional seal. After the cap has been removed, either a test thermometer or a gauge adapter with the proper pressure gauge can be inserted through the two, self-closing valves in the Pete's Plug II. Readings are made, adjustments or test can be accomplished and when the probes are withdrawn, the two valves close. The protective cap is then reinstalled. Tests should be made as quickly as possible since the valve reseal time is dependent upon time of insertion, time, and pressure. Slower valve reseal time can be expected at lower temperature and lower pressures. Cap retaining straps are standard on all brass plugs.

### Installation Instructions:

Simply install a Pressure & Temperature Plug into 1/4" or 1/2" NPT fitting to receive either a 1/16" or 1/8" OD temperature & pressure probe.

Valve & Core Material	Maximum Pressure & Temperature	Strap Color & Body Material Code	Valve Body Connection
Brass Body & Neoprene Core	500 psig @ 32°F to 200°F	Blue Strap	1/4" mnpt
	1,000 psig @ - 20°F to 140°F		
Brass Body & Nordel Core	500 psig @ 32°F to 275°F	Yellow Strap	1/4", 3/8", 1/2" mnpt - Brass
	1,000 psig @ - 20°F to 140°F		
316 Stainless Steel Body & Neoprene Core	500 psig @ 200°F	Blue Strap & Two Grooves	1/4" mnpt
	1,000 psig @ - 20°F to 140°F		
316 Stainless Steel Body & Nordel Core	500 psig @ 275°F	Yellow Strap & Two Grooves	1/4" mnpt
	1,000 psig @ - 20°F to 140°F		

Accessories in two pages

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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 email: sales@PetersenProducts.com



## Temperature & Pressure Plugs, Pipe Sizes: 1/4" to 1/2", 310-Series

*Take pressure or temperature readings quickly*

These economy plugs will allow you to take pressure or temperature readings - quickly and eliminate the need for leaving costly gauges or temperature indicators on the line.

### Applications:

In general these plugs are a time and money saving device which is well suited for most plant and pipeline systems and is designed to eliminate gauge cocks and thermometer wells. Hot and chilled water systems, heat exchangers, pumps, differential readings, air, gas lines, and numerous other applications are only a few of the areas where these plugs are presently being used.

### Valve Materials:

Neoprene is a chloroprene based synthetic rubber and is resistant to deterioration from waxes, fats, oils, greases, petroleum products, and most refrigerants.

Nordel is an ethylene-propylene based synthetic rubber and gives excellent service in hot and cold water and in some applications of low steam. Nordel is resistant to detergents, phosphate esters, ketone, alcohols, and glycols. It is not suitable for petroleum products.

Neoprene and nordel are proprietary materials and the information presented herein is believed to be accurate and reliable. We can assume no liability for results obtained or damages incurred through the application of this information. The information is intended as a guide and if in doubt ask!

### How to Operate:

These plugs are permanently installed in the line at recommended test points. The cap protects the valve and provides an additional seal. After the cap has been removed, either a test thermometer or a gauge adapter with the proper pressure gauge can be inserted through the two, self-closing valves in the plug. Readings are made, adjustments or test can be accomplished and when the probes are withdrawn, the two valves close. The protective cap is then reinstalled. Tests should be made as quickly as possible since the valve reseal time is dependent upon time of insertion, time, and pressure. Slower valve reseal time can be expected at lower temperature and lower pressures.

### Features:

- Available in 1/4" and 1/2" NPT sizes
- Available in long length
- Brass body material for non-corrosive service
- Pressure limits to 1000 psi depending on application
- Neoprene core (red cap) for temperature range of 0-200°F, for use with natural gas and petroleum products
- Nordel core (blue cap) for temperature range of 0-275°F, for use with hot and chilled water systems
- Valve core is self-sealing with pressure cup for superior sealing protection
- Tested by an independent lab indicates no leaks at high or low pressure
- Cap retaining straps are standard on all brass plugs.

Size	Length		Body & Cap Material	Valve Core Material	Shpg Wt		Item Number
	in	npt			in	mm	
1/4 M	1.5	38	Brass	Neoprene	0.5		310-100
1/4 M	1.5	38	Brass	Nordel	0.5		310-2110
1/4 M	3	76	Brass	Neoprene	0.5		310-100-XL
1/4 M	3	76	Brass	Nordel	0.5		310-110-XL
1/2 M	1.5	38	Brass	Neoprene	0.5		310-700
1/2 M	1.5	38	Brass	Nordel	0.5		310-710
1/2 M	3	76	Brass	Neoprene	0.5		310-700-XL
1/2 M	3	76	Brass	Nordel	0.5		310-710XL



See next page for Accessories

**See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products**

## Petersen Products Company

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 P.O. Box 340, 421 Wheeler Avenue, Fredonia, WI 53021-0340 USA  
 email: sales@PetersenProducts.com

## Accessories For Pressure & Temperature Plugs 310 and 311 Series

*Take pressure or temperature readings quickly*

### Pressure Gauge Probe Adapters

The pressure gauge adapter has a probe constructed of 304 stainless steel. The probe is 1/8" in diameter and extends 2" (1 1/2" exposed probe) on the 312-500 adapter and 3 1/2" (3" exposed probe) on the 312-500-XL adapter. The 1/8" diameter probe operates in either the 1/4" or 1/2" Plug. The 312-500-XL Pressure Gauge Probe Adapter will operate in any of the Plugs.

Pressure Gauge Probe Adapters		
(All connections 1/4" FNPT) (For 312-800-B Gauge)	Shpg Wt lbs	Item Number
Adapter with 1/8" x 1 1/2" probe	0.5	312-500
Adapter with 1/8" x 3" probe (XL plugs)	0.5	312-500-XL
Adapter with 1/16" x 1 1/2" probe (311-125-00)	0.5	312-510
Adapter (1/8" x 1 1/2" probe - all 316 SS)	0.5	312-520



### Temperature Gauges

The analog thermometers are constructed of stainless steel, has a 1 3/4" dial and accuracy within 1/2% over the entire scale. Recalibration is by turning the hex nut on the back of the dial case with stem immersed in a known temperature bath.

Digital thermometers have the same specifications as above but can not be recalibrated in the field.

### Pressure Gauges

The 3 1/2" pressure gauge has an ASME B accuracy of 3/2/3% (2% in middle of scale). It has an adjustable red altitude pointer with a psi and feet of water scale.

Bi-metal Pocket Testing Thermometers, 5" Stem, 0.156" (4 mm)				
Style	Temperature Range	Degree Division	Shpg Wt lbs	Item Number
Analog with Recalibration	40°F to 160°F	2	0.5	312-600
Analog with Recalibration	25°F to 125°F	1	0.5	312-601
Analog with Recalibration	0°F to 220 °F	2	0.5	312-603
Digital, Cannot Recalibrate	-58°F to 571°F	0.1	0.5	312-606



Compound Pressure Gauges				
Range	Connection	Shpg Wt lbs	Item Number	
0-100 psi, 0-700 kPa	1/4" mnpt	1	312-800-B	
0-200 psi, 1-1400 kPa	1/4" mnpt	1	312-800-B200	
0-300 psi, 0-2100 kPa	1/4" mnpt	1	312-800-B300	



Pressure and Temperature Test Kits		
With Protective Carrying Case	Shpg Wt lbs	Item Number

312-1500 Test Kit contains:

1 ea 312-601 25° to 125°F Thermometer	2	312-1500
1 ea 312-603 0° to 220°F Thermometer		
1 ea 312-800-B 0-100 psi, 0-700 kPa Pressure Gauge		
2 ea 312-500 1/8" x 1 1/2" Probe Pressure Gauge Adapter		

312-1500-XL Test Kit contains:

1 ea 312-601 25° to 125°F Thermometer	2	312-1500XL
1 ea 312-603 0° to 220°F Thermometer		
1 ea 312-800-B 0-100 psi, 0-700 kPa Pressure Gauge		
1 ea 312-500-XL 1/8" x 3" Probe Pressure Gauge Adapter		



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## Flushers, Drain Jet™ Hydraulic Drain Flushers, Pipe Sizes: 1-3/8" to 6", 100-102 Series

*PETERSEN® Drain Flushers open clogged drains with powerful jet action*

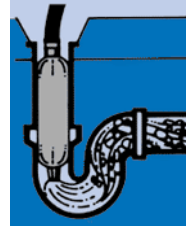
PETERSEN® Drain Flushers open clogged drains with powerful jet action and high flow rate. Easy to install even around bends and elbows. Much greater flow rate than rubber bulb-type flushers that require much of the pressure just to expand the rubber. Drain Jet™ Hydraulic Drain Flusher puts all the water flow and pressure to work. The 100 to 102-0 Series have a 3/4" garden hose connection. The 102-3-Series have a NPT connection for use with your power Jetter and can double as a pipe plug (simply put a pipe plug in the outlet end, inflate up to 100 psi (60 psi for 6"), and use as a pipe plug). Constructed of heavy duty specially treated industrial fabric.



1. Connect Flusher to water hose.



2. Insert Flusher into drain.



3. Turn on water. Bag expands, locks Flusher in pipe and flushes drain clear

Pipe Diameter		Inlet	Deflated Length		Brand Name	Shipping		Item Number		
Maximum in	Minimum mm		in	mm		Standard Pack Ea	2/10 pk lbs			
Flushers, 102-3 Series, Drain Jet-Pro®										
1.5	38	1.375	34	3/8" NPT	8.75	222	Drain Jet-Pro™	1	1	102-3001
2.5	63	1.5	38	3/8" NPT	9.25	235	Drain Jet-Pro™	1	1	102-3002
3	76	2.5	63	3/8" NPT	13	330	Drain Jet-Pro™	1	2	102-3003
4	101	3	76	3/8" NPT	14.75	375	Drain Jet-Pro™	1	2	102-3004
6	152	4	101	3/8" NPT	20.25	514	Drain Jet-Pro™	1	3	102-3006
Flushers, 102-0 Series, Drain Jet™										
1.5	38	1.375	34	3/4" Gdn. Hose	8.75	222	Drain Jet™	2 or 10	1/1	102-001
2.5	63	1.5	38	3/4" Gdn. Hose	9.25	235	Drain Jet™	2 or 10	1/1	102-002
3	76	2.5	63	3/4" Gdn. Hose	13	330	Drain Jet™	2 or 10	2/1	102-003
4	101	3	76	3/4" Gdn. Hose	14.75	375	Drain Jet™	2 or 10	2/1	102-004
6	152	4	101	3/4" Gdn. Hose	20.25	514	Drain Jet™	2	3	102-006
Flushers, 100 Series Dr-Fix it® / 101-Series Econo										
2	51	1.5	38	3/4" Gdn. Hose	8	203	Econo	2 or 10	1/1	101-002
4	101	1.625	41	3/4" Gdn. Hose	9	229	Dr-Fix it®	2	1	100-004
6	152	3	76	3/4" Gdn. Hose	13	330	Dr-Fix it®	2	2	100-006

Custom configurations also available

Products covered by one or more of the following patents: 4,565,222; 5,353,842; 5,901,752; 6,446,669; 6,568,429; 6,899,138 and other applications pending.



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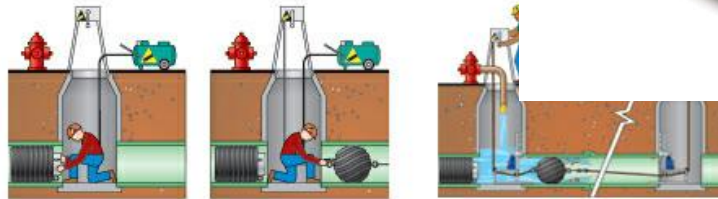
## Cleaning Balls, Pipeline, Pipe Sizes: 5.87" to 18.25", 109 Series

*Great option for cleaning new lines*

Inexpensive method for cleaning new lines prior to line acceptance testing, also for cleaning grease out of existing lines - the better alternative to an expensive jet truck. Equipped with eye bolts at each end for tethering and spiral grooves to create high-power spraying action for cleaning pipelines.



### Cleaning Ball Application



1. Install Ball to isolate manhole.

2. Attach Ball to tag line and inflate.

3. Introduce water into manhole and slowly release Ball down the line.

Nominal Size	Range of Use		Head Pressure (Feet of Head)	Deflated Length	Deflated Diameter	Inflation Valve Thread Size	Eye Bolt	Shpg Wt lbs	Item Number
6" - 10" (150 - 250 mm)	5.87" (149 mm)	10.25" (260 mm)	5 (1.5 M)	8" (203 mm)	5.62" (142 mm)	1/4" (1)	3/8" (2)	4	109-010
10" - 14" (250 - 350 mm)	8.75" (222 mm)	14.25" (362 mm)	5 (1.5 M)	12.25" (311 mm)	8.5" (216 mm)	1/4" (1)	3/8" (2)	10	109-014
15" - 18" (375 - 450 mm)	11" (279 mm)	18.25" (464 mm)	5 (1.5 M)	14.75" (375 mm)	10.75" (273 mm)	1/4" (1)	3/8" (2)	16	109-018

### Manhole Winch

- Drags plugs in leak location testing
- Feeds Pipeline Cleaning Ball down line for sewer cleaning
- Normal pull strength up to 550 pounds
- 3/32" diameter steel cable

Description	Shpg Wt lbs	Item Number
Manhole Winch	30	938-7826



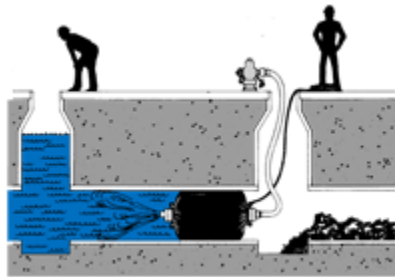
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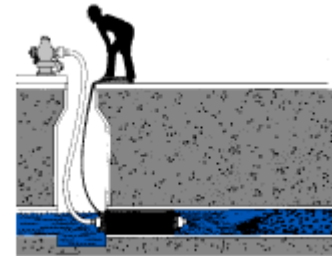
*Powerful Hydraulic Force and Jet Action Flushes Pipeline Clear Quickly and Efficiently*

- Manufactured with heavy industrial treated woven canvas.
- Multi size configuration allows use in smaller than the rated size. Leak back may increase for smaller size pipes.
- Light Weight Allows one person insertion for most sizes and applications.
- Flexibility allows easy navigation through bends and small openings.
- Under Water Placement is easier due to the small deflated size and minimal internal air
- May be used as a plug with water or air by capping the outlet.
- Generally in stock up to 12" diameter with larger and smaller sizes available in just a few days.
- Custom Configurations available for most size, temperature, chemical, and pressure requirements.



**Clear Sand & Debris**

1. Insert Flusher above debris with outlet pointed up stream
2. Turn on water full force allowing water head build up
3. Turn off water and remove Flusher; the released head of water clears pipeline



**Clear Obstructed Sewer**

1. Insert Flusher above debris with outlet pointed down stream
2. Turn on water full force allowing water to expand Flusher
3. Water flow and pressure builds between Flusher and blockage clearing sewer

Pipe Diameter		Maximum* Flushing Pressure	Inlet Coupling	Outlet Connection in npt	Deflated Length		Shpg Wt lbs	Item Number**		
Maximum in	Minimum mm				in	mm				
4	102	3	76	100 psig	1 1/2" npsm	1 M	17	431	4	107-004-1
4	102	3.5	89	100 psig	2 1/2" nh	1 1/2 M	17	431	7	107-004-3
6	152	4	102	100 psig	1 1/2" npsm	1 M	22	558	5	107-006-1
6	152	5	127	100 psig	2 1/2" nh	1 1/2 M	22	558	8	107-006-3
8	203	4	102	100 psig	1 1/2" npsm	1 M	25	635	6	107-008-1
8	203	5	127	100 psig	2 1/2" nh	1 1/2 M	25	635	9	107-008-3
10	254	4	102	100 psig	2" npsm	1 1/4 M	37	939	8	107-010-2
10	254	5	127	100 psig	2 1/2" nh	1 1/2 M	37	939	13	107-010-3
12	305	4	102	100 psig	2" npsm	1 1/4 M	42	1067	13	107-012-2
12	305	5	127	100 psig	2 1/2" nh	2 M	42	1067	14	107-012-3

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## Hot Tappers, Manual, Pipe Sizes: 1/2" to 6", 261 Series

### Tap Live, Pressurized Pipelines Without Interruption

Economical tools allows tapping most pipelines with 1/4" to 6" hot taps in water supply pipelines to 100 psig pressure. The overall shaft length is 18" for sizes up to 2" and 24" for larger sizes.



Right - Hot tapper shown with and without 2" adaptor



Description	Shpg Wt lbs	Item Number
* Multi-Size Hot Tap Kit, 1/2" to 2" Bi-metal Hole Saws	28	261-0020-K
* Multi-Size Hot Tap Kit, 1/2" to 2" Carbide Hole Saws	28	261-0020-KC
* Multi-Size Hot Tap Kit, 1/2" to 6" Bi-metal Hole Saws	70	261-0060-K
* Multi-Size Hot Tap Kit, 1/2" to 6" Carbide Hole Saws	70	261-0060-KC
Hot Tapper, 1/2" Single Size	4	261-0005
Hot Tapper, 3/4" npt x 5/8" Bi-metal Hole Saw	4	261-0007
Hot Tapper, 3/4" npt x 5/8" Carbide Hole Saw	4	261-0007-C
Hot Tapper, 1" npt x 7/8" Bi-metal Hole Saw	5	261-0010
Hot Tapper, 1" npt x 7/8" Carbide Hole Saw	5	261-0010-C
Hot Tapper, 1 1/4" npt x 1 1/8" Bi-metal Hole Saw	5	261-0012
Hot Tapper, 1 1/4" npt x 1 1/8" Carbide Hole Saw	5	261-0012-C
Hot Tapper, 1 1/2" npt x 1 3/8" Bi-Metal Hole Saw	5	261-0015
Hot Tapper, 1 1/2" npt x 1 3/8" Carbide Hole Saw	5	261-0015-C
Hot Tapper, 2" npt x 1 7/8" Bi-metal Hole Saw	6	261-0020
Hot Tapper, 2" npt x 1 7/8" Carbide Hole Saw	6	261-0020-C
Hot Tapper, 2 1/2" npt x 2 3/8" Bi-metal Hole Saw	8	261-0025
Hot Tapper, 2 1/2" npt x 2 3/8" Carbide Hole Saw	8	261-0025-C
Hot Tapper, 3" npt x 2 7/8" Bi-metal Hole Saw	10	261-0030
Hot Tapper, 3" npt x 2 7/8" Carbide Hole Saw	10	261-0030-C
Hot Tapper, 3 1/2" npt x 3 3/8" Bi-metal Hole Saw	13	261-0035
Hot Tapper, 3 1/2" npt x 3 3/8" Carbide Hole Saw	13	261-0035-C
Hot Tapper, 4" npt x 3 7/8" Bi-metal Hole Saw	13	261-0040
Hot Tapper, 4" npt x 3 7/8" Carbide Hole Saw	13	261-0040-C
Hot Tapper, 5" npt x 4 3/4" Bi-metal Hole Saw	29	261-0050
Hot Tapper, 5" npt x 4 3/4" Carbide Hole Saw	29	261-0050-C
Hot Tapper, 6" npt x 5 1/2" Bi-Metal Hole Saw	29	261-0060
Hot Tapper, 6" npt x 5 3/4" Carbide Hole Saw	29	261-0060-C

Spare Parts List - Description	Shpg Wt lbs	Item Number
Arbor, 7/16" Hex for hole saws 9/16 - 1-3/16"	0.5	910-8001
Arbor, 7/16" Hex for hole saws 9/16 - 6"	0.5	910-8002
Drill Pilot 1/4" RD, 7/16" & 5/8" Hex, 4" Long with Coupon Retainer	0.5	910-8003
Drill Shaft, 7/16" x 18"	1.5	910-9120
Drill Shaft, 7/16" x 24"	1.5	910-9124
O-ring, #206, 0.484"ID x 0.139" Viton 75 Duro	0.5	914-0206-1875
Packing Gland, 3/4" mnpt x 1/2" ID	0.5	910-8103



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## Hot Tappers, Pneumatic, Pipe Sizes: 1/2" to 6", 262 Series

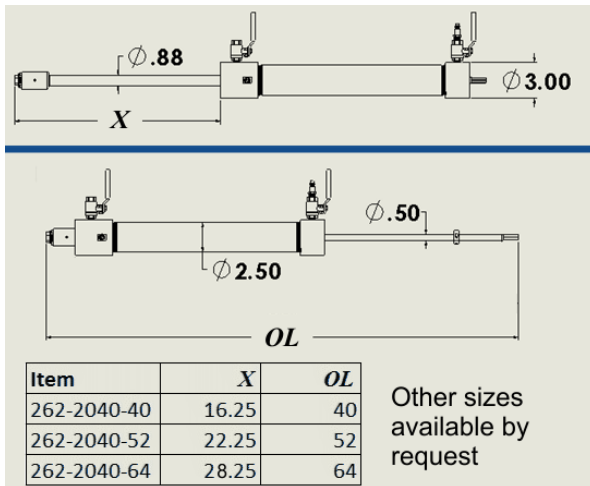
### Tap Live, Pressurized Pipelines Without Interruption

The PETERSEN® 262-2040 Pneumatic Hot Tapper is sized for limited space and light weight one man operation. It will tap larger holes than any manual crank Tapper and air pressure will allow it to tap up to 6" diameter holes often at least as fast as larger hydraulic machines.

- Light weight for one man operation
- Makes taps 1/4" to 6" diameter
- Constant force adjustable for each cutter size and pipe material
- Far more efficient and can tap larger holes than the hand crank tappers
- It can handle many of the tough jobs that previously required a large hydraulic tapper
- Works with any electric, hydraulic, or pneumatic drill motor with a standard 1/2" chuck



Shown Configured for a 6" tap



Tapping Valve Adapter Sizes		Description	Shpg Wt lbs	Item Number
Inches	mm			
		Pneumatic Hot Tapping Machine, 1/4" to 6" Capacity 40" overall length	25	262-2040-40
		Pneumatic Hot Tapping Machine, 1/4" to 6" Capacity 52" overall length	28	262-2040-52
		Pneumatic Hot Tapping Machine, 1/4" to 6" Capacity 64" overall length	31	262-2040-64
1	25.4	Adaptor 1" NPT		262-20400010
1-1/4	38.1	Adaptor 1-1/4" NPT		262-20400012
1-1/2	38.1	Adaptor 1-1/2" NPT		262-20400015
2	50.8	Adaptor 2" NPT		262-20400020
2-1/2	63.5	Adaptor 2-1/2" NPT		262-20400025
3	76.2	Adaptor 3" NPT		262-20400030
4	101.6	Adaptor 4" NPT		262-20400040
5	127	Adaptor 5" NPT		262-20400050
6	152.4	Adaptor 6" NPT		262-20400060
3	76.2	Flange Adaptor 3" 150#		262-20401030
4	101.5	Flange Adaptor 4" x 150#		262-20401040
6	152.4	Flange Adaptor 6" x 150#		262-20401060
3	76.2	Flange Adaptor 3" x 300#		262-20403030
4	101.4	Flange Adaptor 4" x 300#		262-20403040
6	152.4	Flange Adaptor 6" x 300#		262-20403060
		Set Screw 10-32 x .50		910-00190-0504
		Tap Drill Capscrew Hexhd		931-9003-0008
		Retaining Ring .50" bore		910-9903-0050
		Stop Collar Split .50 OD Shaft		910-9901-0050
		Flat Washer .531x1.06x.095		910-8050-1
		O-Ring .484x.139 Viton		914-0206-1875
		O-Ring 1.60x.210 Viton		914-0326-1875
		O-Ring .859x.139 Viton		914-0212-1875
		Pilot Drill Bit 1/4"		910-8003

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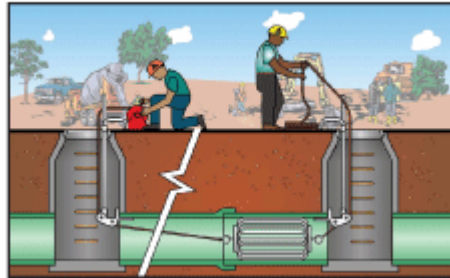
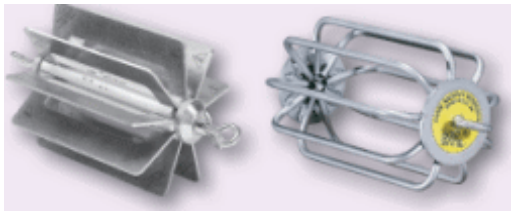
## Deflection Gauges, Pipe Sizes: 4" to 27", 938-96 Series

### *Used to test flexible sewer pipe for out-of-roundness or deflection*

Deflection Gauges (mandrels) are used to test flexible sewer pipe for out-of-roundness or deflection per ASTM specifications D3034 and F679. This testing ensures that flexible pipe has been properly bedded and backfilled (ASTM D2321) to give optimal performance.

Both steel and aluminum gauges utilize a nine arm design to ensure the pipe is tested accurately. This design also allows gravel and debris to easily pass through. Other gauges can get hung up - causing a deflection test to fail, even though the pipe is within tolerance. Sized to .01" , both deflection gauge styles meet ASTM requirements.

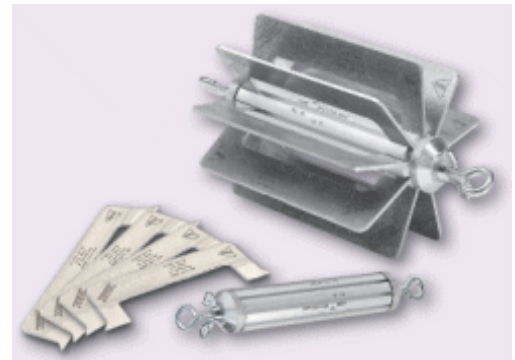
#### Deflection Test



Nominal Size	Pipe	Average Pipe ID	Base Pipe ID*	5% Deflection Gauge OD	7.5% Deflection Gauge OD
<b>Deflection Requirements: ASTM Specification D3034 (4" - 15")</b>					
4"	SDR 35	3.965	3.895	3.7	3.6
6"	SDR 26	5.764	5.612	5.33	5.19
6"	SDR 35	5.893	5.742	5.46	5.31
8"	SDR 26	7.715	7.488	7.11	6.93
8"	SDR 35	7.891	7.665	7.28	7.09
10"	SDR 26	9.644	9.342	8.87	8.64
10"	SDR 35	9.864	9.563	9.08	8.84
12"	SDR 26	11.48	11.102	10.55	10.27
12"	SDR 35	11.737	11.361	10.79	10.51
15"	SDR 26	14.053	13.575	12.9	12.56
15"	SDR 35	14.374	13.898	13.2	12.86
<b>Deflection Requirements: ASTM Specification F679 (18" - 27")</b>					
18"	SDR 26	17.177	16.586	15.76	15.34
18"	SDR 35	17.564	16.976	16.13	15.7
21"	SDR 26	20.249	19.545	18.57	18.08
21"	SDR 35	20.707	20.004	19	18.5
24"	SDR 26	22.781	21.964	20.87	20.32
24"	SDR 35	23.296	22.48	21.36	20.8
27"	SDR 26	25.674	24.744	23.51	22.89
27"	SDR 35	26.258	25.327	24.06	23.43
30"	SDR 26	29.306	28.763	27.32	26.61

#### Aluminum Fin Style Deflection Gauge:

- Lightweight, corrosion-resistant
- Field-verifiable without a proving ring
- Assembles without tools
- All sizes fit through standard 24" manhole
- Fins for 4"-15" gauges have skid size equal to the nominal pipe size-gauge will meet regional codes and will not tip in the line
- Nine-fin design ensures testing accuracy
- Open design allows gravel and debris pass-through



Continued Next Page

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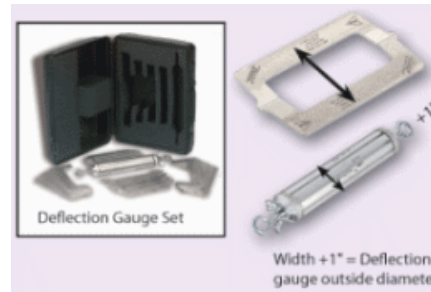
## Deflection Gauges, Pipe Sizes: 4" to 27", 938-96 Series (Continued)

### Field Verification:

Fin Style Deflection Gauges are designed to be field verified by inspectors without the use of a proving ring. Simply place two fins end to end as pictured to the right and measure the width.

Add one inch to the mandrel and you have the outside dimension of the gauge. Using this method simplifies the inspector's job of verifying sizes on deflection gauges.

Nominal Size	Pipe	Deflection	Shpg Wt lbs	Item Number
Aluminum Fin Sets for Below Mandrel				
6", 8", 10"	SDR 26	5%	18	938-9610-265
6", 8", 10"	SDR 35	5%	18	938-9610-355
6", 8", 10"	SDR 35	7.50%	18	938-9610-3575
8", 10", 12"	SDR 26	5%	19	938-9612-265
8", 10", 12"	SDR 35	5%	19	938-9612-355
8", 10", 12"	SDR 35	7.50%	19	938-9612-3575



Nominal Size	Description	Shpg Wt lbs	Item Number
Mandrels for Above Aluminum Fin Sets			
10"	Mandrel (4" -15" Fins)	3	938-9610-10
24"	Mandrel (18"- 48" Fins)	6	938-9610-24

Nominal Size	Pipe	Shpg Wt lbs	5% Deflection	Unit Price	
				Each	7.5% Deflection
Deflection Gauges Including Aluminum Fins					
4"	SDR 35	2	938-96004-355	\$153.00	938-96004-3575
6"	SDR 26	2	938-96006-265	\$161.00	Custom
6"	SDR 35	2	938-96006-355	\$161.00	938-96006-3575
8"	SDR 26	3	938-96008-265	\$171.00	Custom
8"	SDR 35	3	938-96008-355	\$171.00	938-96008-3575
10"	SDR 26	3	938-96010-265	\$213.00	Custom
10"	SDR 35	3	938-96010-355	\$213.00	938-96010-3575
12"	SDR 26	4	938-96012-265	\$269.00	Custom
12"	SDR 35	4	938-96012-355	\$269.00	938-96012-3575
15"	SDR 26	5	938-96015-265	\$307.00	Custom
15"	SDR 35	5	938-96015-355	\$307.00	938-96015-3575
18"	SDR 35	8	938-96018-355	\$803.00	938-96018-3575
21"	SDR 35	10	938-96021-355	\$882.00	938-96021-3575
24"	SDR 35	11	938-96024-355	\$942.00	938-96024-3575
27"	SDR 35	12	938-96027-355	\$1002.00	938-96027-3575

Continued Next Page

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 email: sales@PetersenProducts.com

## Deflection Gauges, Pipe Sizes: 4" to 27", 938-96 Series (Continued)

### Fixed Steel Style Deflection Gauges

- Durable, zinc-plated construction resists corrosion
- Conforms to mandrel sizing specifications-blade length is equal to or greater than the nominal pipe size
- Nine-arm design ensures testing accuracy
- Open design allows gravel and debris pass-through



Nominal Size	Pipe	Shpg Wt lbs	5% Deflection	Unit Price Each	7.5% Deflection
Fixed Size Steel Deflection Gauges (Larger and Custom Sizes are Available)					
6"	SDR 26	5	938-96106-265	\$205	938-96106-2675
6"	SDR 35	5	938-96106-355	\$205	938-96106-3575
8"	SDR 26	7	938-96108-265	\$267	938-96108-2675
8"	SDR 35	7	938-96108-355	\$267	938-96108-3575
10"	SDR 26	8	938-96110-265	\$315	938-96110-2675
10"	SDR 35	8	938-96110-355	\$315	938-96110-3575
12"	SDR 26	9	938-96112-265	\$386	938-96112-2675
12"	SDR 35	9	938-96112-355	\$386	938-96112-3575
15"	SDR 26	14	938-96115-265	\$459	938-96115-2675
15"	SDR 35	14	938-96115-355	\$459	938-96115-3575
18"	SDR 26	16	938-96118-265	\$519	938-96118-2675
18"	SDR 35	15	938-96118-355	\$519	938-96118-3575
21"	SDR 35	18	938-96121-355	\$597	N/A
24"	SDR 35	11	938-96124-355	\$676	N/A

Larger and custom sizes are available.

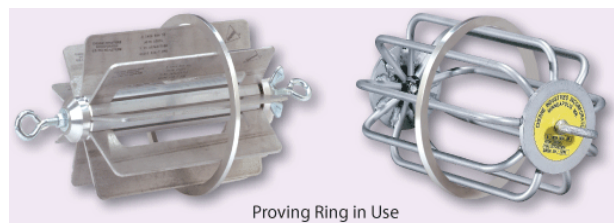
### Proving Rings

- Used to verify deflection gauge sizes
- Standard sizes: 6"-15" SDR 35 5% deflection and
- 8"-12" SDR 35 7.5% deflection
- Custom sizes for 5"-18" also available



Nominal Size	Pipe	Deflection	Shpg Wt lbs	Item Number
Proving Rings (Larger and custom sizes are available)				
6"	SDR 35	5%	1	938-9600-065
8"	SDR 35	5%	1	938-9600-085
8"	SDR 35	7.50%	1	938-9600-0875
10"	SDR 35	5%	1	938-9600-105
10"	SDR 35	7.50%	1	938-9600-1075
12"	SDR 35	5%	1	938-9600-125
12"	SDR 35	7.50%	1	938-9600-1275
15"	SDR 35	5%	1	938-9600-155
18"	SDR 35	5%	1	938-9600-185

Larger and custom sizes are available.



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## Pumps, Portable, Medium Pressure Hydrostatic Test, 938-93 Series

*Designed for pressure testing water lines and sewer force mains*

Hydrostatic Test Pumps are designed for pressure testing water lines and sewer force mains as prescribed by AWWA Standard C600 Installation of Ductile-Iron Water Mains and C605 Installation of PVC Pressure Pipe.

Hydrostatic Test Pumps are designed to be the most user friendly in the industry. Both Diaphragm and Piston Style pumps are available and come powered by either a Honda or Briggs & Stratton engine.

### *Hydrostatic Test Pump - Diaphragm Style - High-Volume 35 GPM @ 290 psi*

- 11 HP engine with oil alert™
- Hypro® triple diaphragm pump - 35 gpm/290 PSI
- Self priming, handles up to 10% chlorine solutions
- Enclosed gear reduction - excellent heat dissipation
- Heavy duty coupling with protective cover

Description	Shpg Wt lbs	Item Number
Diaphragm-style Test Pump: 35 gpm, 290 psi Honda engine, 12' output & 10' intake hoses	250	938-9335H



### *Hydrostatic Test Pump - Diaphragm Style - 9.5 gpm @ 550 psi*

- 5.5 HP engine
- Hypro® Twin diaphragm pump - 9.5 gpm / 550 PSI
- Handles up to 10% chlorine solutions
- May be run dry
- Four output pressure settings
- Integral manifolds - eliminates leak points
- Enclosed gear reduction - excellent heat dissipation
- Pulsation dampener - no need to surge tank

Equipped with:

- Heavy-duty frame
- Hydraulic quick-disconnect - brass, swivel fitting
- Inline strainer - easy to clean clear bowl
- Clear hose - flow verification
- Silicone filled test gauge w/stainless steel case



9.5 Gallon Diaphragm Pump  
(Shown with optional wheel kit)

Continued Next Page

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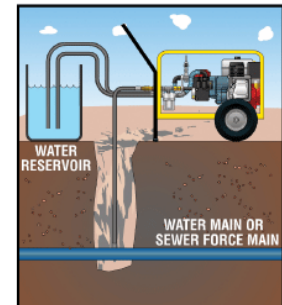
**Optional Water Tank:**

- 16 gallon capacity polyethylene tank
- Allows pump to be pressure fed
- Hinged frame allows easy access to engine
- For use with 9.5 gallon diaphragm style pump

**Optional Wheel Kit:**

- For use with all models
- Shown with optional wheel kit and water tank

Diaphragm Pump



Suction Feed

Description	Shpg Wt lbs	Item Number
<b>Hydrostatic Test Pump - Diaphragm Style - 9.5 gpm @ 550 psi</b>		
Diaphragm Style Test Pump: 9.5 gpm / 550 psi	217	938-93095-H
Honda engine, 12' output & 10' intake hoses		
Diaphragm Style Test Pump: 9.5 gpm / 550 psi	232	938-93095
Briggs & Stratton engine, 12' output & 10' intake hoses		
16 gallon water tank	28	938-9300-16
Wheel Kit	23	938-9300-1
12' Output Hose with Disconnects	6	938-9300-01440
Disconnect for Output	2	938-9300-2
Gauge 0-300 PSI, 2.5" dial, Test Pressure Gauge with retarded increments to 600 psi	1	938-9300-1060
12' Input Hose	10	938-9300-0144
Strainer Nylon Filter	1	938-9300-3

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## Pumps, Portable, High Hydrostatic Pressure Test, 938-9 Series

*A fast, safe, and simple method for hydrostatic testing*

These test pumps are a fast, safe, and simple method for hydrostatic testing, ideally suited to work with the above plugs or on a stand alone basis. Choose from two styles and a variety of pressure ranges.

### A-Style Hydrostatic Test Pumps

- Ideal for hydro testing heat exchanger tubes, pipes, and pressure vessels
- Test in the field or in the shop
- Simple air-driven pump
- Output pressures range from 1,000 to 10,000 psi (69 to 690 bar)
- Self lubricating air over water intensifier
- Water supply connection
- Easy to read 4" (100 mm) diameter pressure gauge
- Regulator to control inlet air supply
- High pressure bleed valve and high pressure outlet
- Equipped with 10 ft (3.1 m) high pressure hose with quick couplings
- Mating quick connect couplings for air, water inlet connections, and high pressure outlet
- Lockable aluminum tool box with room for hose, fittings, and plug



### B-Style Hydrostatic Test Pumps

- Ideal for all hydrostatic testing
- Slightly larger pump mounted on a hand truck
- Simple air-driven pump
- Built-in filter, regulator, and lubricator on air inlet
- Output pressures range from 1,000 to 10,000 psi (69 to 690 bar)
- Easy to read 4" (100 mm) diameter pressure gauge
- High pressure system bleed valve
- Water suction strainer with crow's foot connector
- Supplied with 15 ft (4.5 m) high pressure hose with swivel
- Heavy duty enclosure with integral wheels and handle for portability



A-Style Hydrostatic Test Pumps								
Maximum Outlet Pressure		Open Flow Rate	*Flow Rate at 85% Rated Output	Dimensions			Shpg Wt lbs	Item Number
psi	bar	gpm	gpm	(L) in	(W) in	(H) in		
2500	172.3	0.9	0.87	24	9.5	10.5	42	938-9125
10000	689.4	0.36	0.19	24	9.5	10.5	42	938-9199

B-Style Hydrostatic Test Pumps										
Maximum Pressure		Volume @ 100 CPM	Pressure Ratio	*Maximum CFM required	Maximum Air Required	Dimensions			Shpg Wt lbs	Item Number
psi	bar	gpm		cfm	psi	(L) in	(W) in	(H) in		
1000	68.9	7.5	10:1	56	100	17	24	43	150	938-9210
3600	248.2	2.7	36:1	56	100	17	24	43	150	938-9236
10000	689.5	1	97:1	56	100	17	24	43	150	938-9299

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### An efficient way to test manholes!

These manhole vacuum testers provide the most efficient, accurate, and cost-effective method of testing new, existing, and rehabilitated manholes, per ASTM C 1244.

Vacuum testing identifies infiltration and exfiltration problems by creating a vacuum in a manhole and then monitoring a gauge for vacuum loss. Less expensive and faster than water testing, the manhole testers' remote-inflation and monitoring system keeps users away from the danger zone. Can be used in manholes as deep as 40' if desired.

#### Bladder-Style Head Assemblies

- Seals the inside diameter of the manhole at frame or cone
- Supported by a durable aluminum brace

Sealing Range				Description	Shpg Wt lbs	Item Number
Maximum		Minimum				
in	mm	in	mm			
24.3	617	20	508	24" Bladder Tester	130	938-7124
26.3	668	21.5	546	26" Bladder Tester	145	938-7126
29.3	744	24	609	29" Bladder Tester	160	938-7129
30.3	769	25	635	30" Bladder Tester	165	938-7130
32.8	833	27.5	698	32" Bladder Tester	170	938-7132
34.3	871	30	762	34" Bladder Tester	175	938-7134
36	914	31.5	800	36" Bladder Tester	185	938-7136
				24" Replacement Bladder	10	938-7124BL
				26" Replacement Bladder	12	938-7126BL
				29" Replacement Bladder	15	938-7129BL
				30" Replacement Bladder	15	938-7130BL
				32" Replacement Bladder	16	938-7132BL
				36" Replacement Bladder	18	938-7136BL
				Replacement 20' Hose	25	938-71200HO
				Replacement 0-30" hg Gauge	6	938-71200G3
				Replacement 0-60" hg Gauge	3	938-71200G6



#### Plate-Style Head Assemblies

- Designed to seal manhole cone surface
- Seals a wide range of manhole diameters
- Hose (20 ft.) and gauge assembly included
- Neoprene gasket for leak-free seal

Sealing Range				Description	Shpg Wt lbs	Item Number
Maximum		Minimum				
in	mm	in	mm			
30	762	18	457	32" Plate-Style Tester	100	938-7232
36	914	18	457	38" Plate-Style Tester	120	938-7238
42	1066	18	457	44" Plate-Style Tester	140	938-7244
				32" Replacement Foam	12	938-7232FM
				38" Replacement Foam	15	938-7238FM
				44" Replacement Foam	25	938-7244FM
				Replacement 20' Hose	25	938-71200HO
				Replacement 0-30" hg Gauge	6	938-71200G3
				Replacement 0-60" hg Gauge	3	938-71200G6



#### Vacuum Pumps

- Choose a Honda or Briggs & Stratton engine - each with low-oil shut-off to prevent engine failure
- Heavy-duty frame with optional wheel kit
- Unbreakable aluminum filter jars
- Oil-free graphite vane pump for no-fuss lubrication
- Draws 10" HG vacuum in about two minutes for a 15' deep manhole

Description	Shpg Wt lbs	Item Number
Vacuum Pump with Briggs Engine	178	938-7088
Vacuum Pump with Briggs Engine	179	938-7168
Wheel Kit Option	23	938-7918



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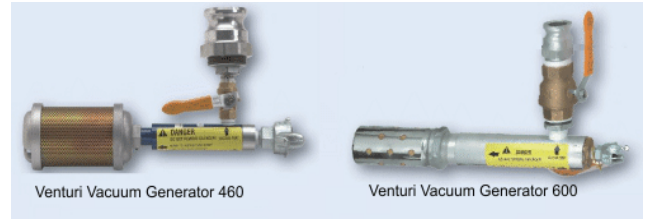
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### Venturi Vacuum Generators

- Converts standard air compressor into a vacuum source for testing manholes - draws a vacuum in minutes
- Vacuum generator 460 delivers 14 CFM at 10" HG (air compressor: minimum 7 CFM at 100 psi)
- Vacuum generator 600 delivers 42 CFM at 10" HG, meeting or exceeding the competition (air compressor: minimum 85 CFM at 100 PSI)
- Chicago/Crows Foot air compressor fitting and Cam and Groove Adapter F Style vacuum fitting



### Manhole Jack (Hose Guide)

- Guides air hoses and cables at pipe invert in manhole
- Zinc-plated for corrosion resistance
- Fits pipe sizes 5" - 24"
- Includes eye bolt for securing rope and ease of retrieval

### Manhole Roller (Hose Guide)

- Guides air hoses and cables at pipe invert in manhole
- Adjustable push-in system
- Installs at surface - no need to enter the manhole

### Manhole Winch

- Drags plugs in leak location testing
- Feeds Pipeline Cleaning Ball down line for sewer cleaning
- Normal pull strength up to 550 pounds
- 3/32" diameter steel cable

### Manhole Cover Hooks

- Forged hexagonal steel for extra strength
- Available with flat or 90 degree handles



Description	Shpg Wt		Item Number
	Lbs		
Venturi Vacuum Generator 460	5		938-7460
Venturi Vacuum Generator 600	11		938-7600
Manhole Jack (Hose Guide)	27		938-7824
Manhole Roller (Hose Guide)	30		938-7825
Manhole Winch	65		938-7826
24" Manhole Cover Hook with 90° handle	4		938-7800-2490
36" Manhole Cover Hook with 90° handle	5		938-7800-3690
24" Manhole Cover Hook with flat handle	4		938-7800-24
36" Manhole Cover Hook with flat handle	5		938-7800-36
Hose (20 ft) and Gauge Assembly (replacement part)	22		938-7820
Gauge, 0-30" Hg, 3" Dial (replacement part)	2		938-7823
Gauge, 0-60 psi, 2" Dial (replacement part)	1		938-7822

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## Smoke Testers, 938-95 Series

*Effectively identifies inflow*

### Smoke Blower Features:

- Effectively identifies inflow
- For use with traditional smoke bombs or liquid smoke
- Briggs & Stratton engine
- Generates up to 3,769 cubic feet per minute of air flow\*
- Made of lightweight, cast aluminum



### Equipped with:

- ½" foam cell gasket to ensure a leak-free seal on manholes and minimize vibration
- Smoke bomb box holder (traditional smoke blower only)
- Pressurized tank, hose and all necessary components (liquid smoke blower only)

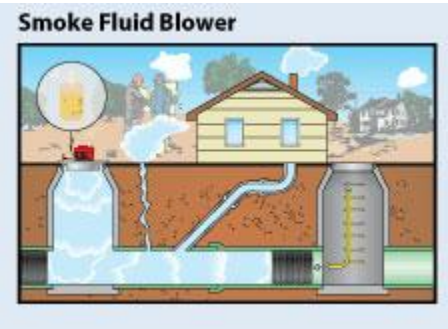
### Smoke Bomb Features:

- Produces a thick, dense smoke
- Time-proven
- Simple to use
- Can be used with most smoke blowers
- 3 minute bombs available with double wick that allows units to be strung together for a longer smoke time



### Smoke Fluid Features:

- Produces thick, dense smoke
- Easy-to-regulate
- Virtually indefinite storage life



Description	Shpg Wt lbs	Item Number
<b>Smoke Bomb</b>		
Smoke Bomb Smoke Blower Kit: Briggs & Stratton engine	170	938-9510
Smoke Bomb: 30 seconds (sold 12 per case)	2	938-9500-0030
Smoke Bomb: 60-seconds (sold 12 per case)	2	938-9500-0060
Smoke Bomb: 3 minutes (sold 12 per case)	5	938-9500-0180
Smoke Bomb: 3 minutes, double wick (sold 12 per case)	5	938-9500-2180
<b>Smoke Fluid</b>		
Smoke Fluid Smoke Blower Kit: Briggs & Stratton engine	178	938-9520
Fluid Smoke pressure container and hose: 2 gallons capacity	7	938-9520-02
Fluid Smoke: one gallon	8	938-9520-001
Fluid Smoke: five gallons (sold 1 per case)	40	938-9520-005
Fluid Smoke: fifty-five gallon drum	406	938-9520-055
<b>Accessories</b>		
Smoke Blower replacement fan (left pitch)	3	938-9500-01
Smoke bomb holding cage	2	938-9500-02
Fluid Smoke conversion kit from Smoke Bomb Briggs & Stratton engine Includes Smoke fluid pressure container and hose, Modified muffler with injection port	10	938-9500-1020

\*CFM performance based on independent laboratory tests. When tested side-by-side at an independent air flow laboratory, Cherne's line stringer, ventilator, and smoke blower beat the competition at every flow condition

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## Stringers and Ventilators, 938-94 Series

*For use as a line stringer, ventilator and smoke blower*

### Fan Assembly Features:

- For use as a line stringer, ventilator and smoke blower
- Made of lightweight, cast aluminum
- Foam base minimizes vibration
- 30" Diameter base plate

### Equipped with:

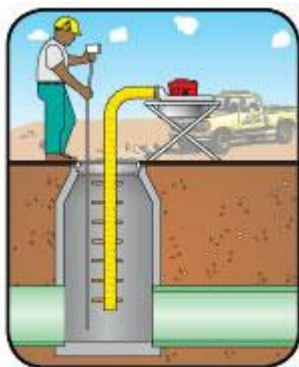
- 5HP Honda or Briggs & Stratton engine
- Top-mounted handles for easy maneuverability

### Line Stringer Usage Details:

- Will string a 300' section of sewer line in under a minute without plugging the line
- Line stringer vacuum pulls a lightweight nylon parachute through wet or dry lines

### Ventilator Usage Details:

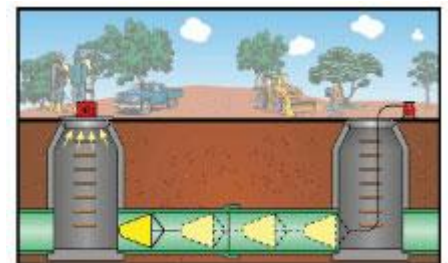
- Supports OSHA guidelines for confined space entry
- Provides up to 2,350 CFM as a blow-in ventilator and up to 3,470 CFM as a suction ventilator
- Out-performs similar competitive models by 40% at 3" of static pressure



Blow in ventilator



Suction ventilator



Line stringer

Description	Shpg Wt lbs	Item Number
Line Stringer Kit: Honda engine	94	938-9410-0610-H
1000' nylon rope and reel, 6-10" parachute		
Line Stringer Kit: Briggs & Stratton engine	112	938-9410-0610
1000' nylon rope and reel, 6-10" parachute		
Ventilator Kit: Honda engine	143	938-9420-H
Shroud, Stand and 20ft of 8" diameter duct hose		
Ventilator Kit: Briggs & Stratton engine	132	938-9420
Shroud, Stand and 20ft of 8" diameter duct hose		
Fan Assembly: Honda engine	84	938-9416-H
Fan Assembly: Briggs & Stratton engine	92	938-9416
Replacement fan: Line Stringer/Ventilator (right pitch)	4	938-9417
1000' Nylon Rope and reel	11	938-9400-1000
4" Parachute	1	938-9400-0104
6"-10" Parachute	1	938-9400-0610
8"-12" Parachute	1	938-9400-0812
10"-18" Parachute	1	938-9400-1018
18"-36" Parachute	2	938-9400-1836
Line Stringer to Ventilator Conversion Kit:	45	938-9415
Shroud, Stand and 20 ft of 8" diameter duct hose		

\* - CFM performance based on independent laboratory tests. When tested side-by-side at an independent air flow laboratory, Cherne's line stringer, ventilator, and smoke blower beat the competition at every flow condition.

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## Safety Gag, Mechanical Plugs, Pipe Sizes: 0.75" to 24", 936-5 Series

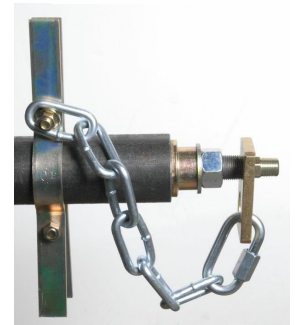
*For use with mechanical test plugs*

These Safety Gags clamp to the outside diameter of standard pipe sizes for use with mechanical test plugs. They are made with painted carbon steel with plated chain.

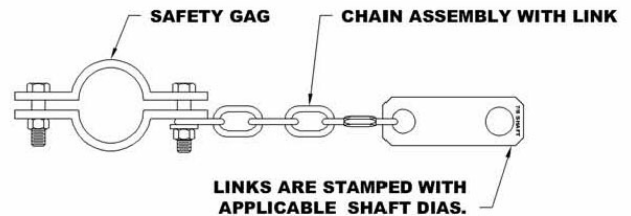
### Installation Procedure:

**Warning:** These are general instructions only. Please refer to the appropriate operating procedures for the test plug being utilized. The 147 Series Test Plugs are designed to be self-sealing and self-gripping, which facilitate both the seal and the gripper to become tighter as pressure increases. The extra squeeze of the seal and gripper caused by the test pressure can be detected as minor movement of the shaft. Installing the Safety Gag with a tight chain may limit or prevent the small movement of the test plug shaft as pressure is increasing, and subsequently limit or prevent the self-sealing and self-gripping feature of our test plugs. The amount of slack in the chain as well as the position of the installed plug should be observed from a safe distance to insure no appreciable movement of the plug has occurred. Should movement be noted, the test should be stopped and all pressure released immediately.

1. Install Safety Gag pipe clamp onto pipe being tested. Safety gags are to be installed with some slack so that movement of the shaft is not prohibited as pressure increases during testing.
2. Tighten bolts to insure slippage will not occur.
3. Insert test plug into tube or pipe. Follow appropriate operating procedures for the plugs being utilized, and install plugs per recommended torque values using a calibrated torque wrench.
4. Prior to pressurizing the system, slip the link over the shaft end. Safety gags 8" and larger are equipped with two chain and link assemblies. The links are stamped with the shaft sizes they can accommodate. Each link can do at least two sizes of shafts. Insure you have the appropriate link set-up before using. Unscrew the chain connector and switch the link around if necessary.
5. Continue with appropriate operating procedures.



Nominal Pipe Size		Safety Gags	
in	mm	Shpg Wt lbs	Item Number
0.75	19	2	936-5000-0075
1	25	2	936-5000-0100
1.25	31	2	936-5000-0125
1.5	38	3	936-5000-0150
2	50	4	936-5000-0200
2.5	63	4	936-5000-0250
3	76	4	936-5000-0300
3.5	88	4	936-5000-0350
4	101	4	936-5000-0400
5	127	5	936-5000-0500
6	152	6	936-5000-0600
8	203	11	936-5000-0800
10	254	15	936-5000-1000
12	304	20	936-5000-1200
14	356	30	936-5000-1400
16	407	40	936-5000-1600
18	457	42	936-5000-1800
20	508	45	936-5000-2000
24	610	50	936-5000-2400



Note: The gags are not pressure rated, they are used primarily to prevent losing the plug down the pipe. They may help prevent the plug from becoming a projectile but we make rated plug restraints for most pipelines and pressures. Please provide the pipe specifications and pressure that the plug will restrain and we will quote accordingly.

Standard materials: painted carbon steel with plated chain  
Other sizes available, call for pricing

See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

**Petersen Products Company**

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## Product & Service Warranty, Terms & Conditions

### *Petersen Products Co. ("Petersen")*

**GENERAL:** This writing contains the entire agreement of the parties and consists of the terms specified on the face hereof, these terms and conditions and any specifications, drawings or other documentation referenced in these terms and conditions (collectively, "Terms and Conditions"). The Terms and Conditions shall be the only terms and conditions becoming part of this contract. In the event that Purchaser's purchase order contains provisions which are inconsistent with or in addition to these Terms and Conditions, such provisions are hereby objected to and shall not become part of the contract. If the document containing these Terms and Conditions constitutes an acceptance under Article 2 of the Uniform Commercial Code, acceptance is hereby expressly made conditional on the Purchaser's assent to these Terms and Conditions and that no other terms and conditions, whether inconsistent or in addition to these terms and conditions, shall become part of the contract. No orders or contracts shall be binding upon Petersen until accepted by it at its home office in Fredonia, Wisconsin. Orders accepted by Petersen may not be canceled by Purchaser except upon terms and conditions acceptable to Petersen.

**SALE BY MODEL:** At its option, Petersen may deliver to Purchaser a model of the goods covered by Purchaser's purchase order and Purchaser will have the opportunity to examine and test the model. When Petersen provides Purchaser with such a model, Purchaser agrees that goods which conform to the model shall for all purposes be regarded as conforming goods and as being in accordance with the requirements of the contract.

**PURCHASER'S TEST OF GOODS:** Purchaser has the responsibility to conduct the research necessary to learn the hazards involved in using the goods. Purchaser expressly represents and warrants to Petersen that it will properly test the goods in a manner sufficient to conform to applicable law with respect to the goods in their intended market and to practical considerations with respect to intended and expected uses of the goods.

**LIMITED WARRANTY:** Our reputation is firmly established as a reliable manufacturer of high quality products. Our goal is to provide products that best meet Purchaser requirements. Petersen warrants that, at time of shipment, a product is free from all defects in material and workmanship. If any product has a manufacturing defect or does not perform as stated, we will replace it, repair it or allow it to be returned for credit if notified within 90 days of the date of shipment thereof. This warranty is void if product is not used in accordance with supplied instructions.

**LIMITATION OF PETERSEN'S WARRANTIES AND DAMAGES:** PETERSEN MAKES NO WARRANTY, EXPRESS OR IMPLIED, RESPECTING ANY OF THE PURCHASED GOODS, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR FREEDOM FROM CLAIMS FOR INFRINGEMENT. IN NO EVENT SHALL PETERSEN BE LIABLE FOR LOST PROFITS OR ANY OTHER INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING ECONOMIC LOSSES. ANY SUGGESTIONS, TECHNICAL ASSISTANCE, OR OTHER INFORMATION PROVIDED BY PETERSEN OR ITS PERSONNEL REGARDING USE, SELECTION, APPLICATION OR SUITABILITY OF THE GOODS SHALL NOT BE CONSTRUED AS SUCH A WARRANTY.

**PURCHASER'S INDEMNITY:** Purchaser agrees to indemnify and hold Petersen, its employees, officers, directors, agents, successors, and assigns, from and against any and all losses, claims, demands, liabilities, costs and expenses (including reasonable attorneys' fees and other costs of litigation) that Petersen or any of such persons may sustain or incur whether based upon negligence, breach of express or implied warranty, strict liability in tort, contract or any other theory of law (a "claim" or "claims") brought by Purchaser, its employees, officers, directors, agents, successors, and assigns, by an end user of the goods or by any other person or entity arising out of the goods or their sale or use. Purchaser shall notify Petersen of any such claim or facts of which it becomes aware which could become the basis of a claim, and shall make available all statements, reports and tests made by Purchaser or for Purchaser or made available to Purchaser. Purchaser will undertake the defense of each such claim. Petersen may participate in the defense of any such claim to the extent it deems advisable.

**PRICE:** Any written quotation shall automatically expire unless accepted by a customer within 90 days from the date quoted. Any quotation is subject to change with or without notice within said 90-day period prior to acceptance to the written order by Petersen. Verbal quotations by Petersen shall expire within 24 hours. All prices are subject to change without notice. Prices are in U.S. Dollars exclusive of State and Federal taxes, which shall be the sole responsibility of Purchaser. The Purchaser will reimburse Petersen the amount of any and all taxes required to be paid or shall provide Petersen at the time of the order a tax exemption certificate or other document acceptable to taxing authorities to establish exemption. Terms are Net 30 days of Petersen's invoice. Past due accounts will be assessed a service charge (18% APR) on unpaid balance until paid. If the customer defaults in any payment when due, then the entire price shall become due immediately and payable upon demand or Petersen may at its option without prejudice to other lawful remedies defer delivery or cancel the order.

**FORCE MAJEURE:** Petersen shall not be liable for any breach of its obligations hereunder or otherwise with respect to Petersen's products if such breach was caused, either in whole or in part, by any factor outside of Petersen's control, including, without limitation, stock-outs; fire or other casualty; strikes or other labor disturbances; failure of any sources of supply (including, without limitation, transportation and utilities); war, terrorism, insurrection, riot or other violent disturbances; and governmental actions (including, without limitation, embargoes and new laws and regulations). Petersen reserves the right to allocate its available products in such a manner as it deems appropriate in the event of any shortage thereof so caused.

**INTELLECTUAL PROPERTY:** Petersen shall retain all rights in all intellectual property, including any rights under any patents as well as any unpatented information, such as trade secrets, confidential information, trademarks, trade dress or copyrights possessed by Petersen which may be protected by state, federal and/or common law, and nothing in these Terms and Conditions shall be deemed or construed to be a transfer or license of any of Petersen's intellectual property. Purchaser shall obtain rights to such intellectual property only to the extent that Petersen may grant such rights (whether by license or otherwise) in writing.

Products covered by one or more of the following patents: 4,565,222; 5,353,842; 5,901,752; 6,446,669; 6,568,429; 6,899,138; 6,959,734; 7,455,077; 7,588,053 and other applications pending.

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See Warranty, Terms and Conditions and Pipe Plug Warnings & Notes pages, Website for current pricing and products

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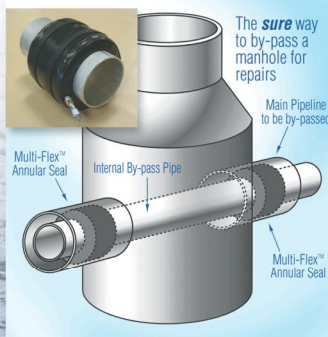


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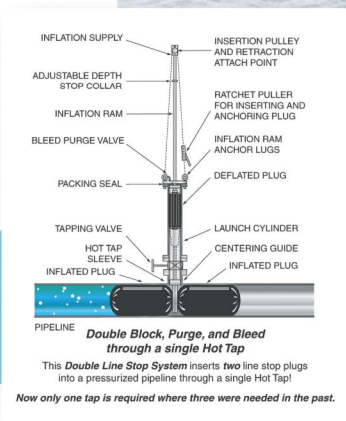
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