



PERMA-LOC FITTINGS & VALVES FOR THIN WALL DRIPLINES & TAPE

- Unmatched in Performance, Durability and Reliability
- Provides Easy and Speedy Installation
- UV and Chemical Resistant
- Modular Design fits Multiple Applications
- Variety of Available Sizes and Styles



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PERMA-LOC FITTINGS & VALVES FOR THIN WALL DRIPLINES & TAPE



Perma-Loc Fittings for Thin Wall Driplines & Tape

Selection Chart

Nominal Size	Series Number	Acceptable I.D.	Acceptable Wall Thickness
5/8"	500 - T5	.625" - .645"	4 mil - 30 mil
7/8"	700 - T7	.860" - .885"	4 mil - 24 mil
1"	900 - T9	.980" - 1.100"	6 mil - 24 mil
1 1/8"	1100 - T11	1.125" - 1.450"	8 mil - 24 mil
1 3/8"	1300 - T13	1.275" - 1.500"	10 mil - 24 mil

Couplings

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TC500	5/8"*	100	800	32 lbs.
A1-TC700	7/8"*	50	400	34 lbs.
A1-TC990	1"*	50	300	30 lbs.
A1-TC1100	1 1/8"	25	200	32 lbs.
A1-TC1300	1 3/8"	25	150	31 lbs.

* Standard with green locking nuts.

Couplings Recycled

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TC500B	5/8"	100	800	32 lbs.
A1-TC700YB	7/8"	50	400	34 lbs.

5/8" black body with blue nuts; 7/8" black body with yellow nuts.

Two Step LayFlat Connector

Tape x 14mm LayFlat

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5LF2	5/8"	100	700	34 lbs.

Use Cutter B5-CLF14B and Hex Tool B5-AHW10.

LayFlat Connector

3/4" Socket / 1" Spigot Adapter

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-P3/4LF19	19mm LF	50	500	34 lbs.

Use Cutter B5-CLF19R and Hex Tool B5-AHW12.

LayFlat Connector x Threaded Adapter

LayFlat x 1/2" FIPT/3/4" MIPT

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TH50LF	14mm LF	50	1,000	30 lbs.

Use Cutter B5-CLF14B and Hex Tool B5-AHW10.

LayFlat Connector x Female Swivel Adapter

3/4" FHS

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-FHSLF	14mm LF	50	400	18 lbs.

Use Cutter B5-CLF14B and Hex Tool B5-AHW10.

Applications:



LayFlat Connectors - Standard Hole

Tape x 14mm Layflat

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5LF	5/8"	100	700	27 lbs.
A1-T7LF	7/8"	100	700	40 lbs.

Use Cutter B5-CLF14B and Hex Tool B5-AHW10.

LayFlat Connectors - Large Hole

Tape x 19mm LayFlat

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T7LF19	7/8"	50	450	28 lbs.
A1-T9LF19	1"*	50	300	40 lbs.
A1-T11LF19	1 1/8"*	25	300	33 lbs.

* Glued fittings. Use Cutter B5-CLF19R and Hex Tool B5-AHW12.

End Plug with Finger Ring

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5PLUG	5/8"	100	1,000	37 lbs.

LayFlat Plugs

Part Number	Series	Bag Qty	Box Qty	Box Wt
A5-PLUG14	14mm LF	50	700	23 lbs.
A5-PLUG19	19mm LF	100	1,000	42 lbs.

Plugs holes by Cutters B5-CLF14B (14mm) and B5-CLF19R (19mm).

250 Series Barb

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5B250	5/8"	100	1,000	34 lbs.

400 Series Barbs

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5B400	5/8"*	100	1,000	37 lbs.
A1-T5B400A	5/8"	100	1,400	38 lbs.
A1-T7B400	7/8"*	50	600	48 lbs.

* Standard with green locking nuts.

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700 Series Barbs

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5B700	5/8"	100	1,000	33 lbs.
A1-T7B700	7/8"	100	700	30 lbs.
A1-T9B700	1"	50	400	36 lbs.
A1-T11B700	1 1/8"	50	300	40 lbs.



Female Hose Swivel Adapters

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5SWW	5/8" w/washer	100	700	36 lbs.
A1-T5SWS	5/8" w/screen	100	700	35 lbs.
A1-T7SWW	7/8" w/washer	50	350	36 lbs.



Male Hose Thread Adapters

Tape x 3/4" Male Hose Thread

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5HT	5/8"	100	900	33 lbs.
A1-T7HT	7/8"	100	600	42 lbs.
A1-T9HT	1"	50	500	31 lbs.



Threaded End Caps

Tape x 3/4" Male Hose Thread with Threaded End Cap

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5CAP	5/8"	100	700	38 lbs.
A1-T7CAP	7/8"	50	500	39 lbs.
A1-T9CAP	1"	50	500	39 lbs.



Swivel Tees

Tape x Tape x 3/4" Female Hose Swivel

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TT55SWW	5/8" x 5/8" w/washer	50	300	23 lbs.
A1-TT55SWS	5/8" x 5/8" w/screen	50	400	29 lbs.
A1-TT77SWW	7/8" x 7/8" w/washer	20	120	33 lbs.
A1-TT77SWS	7/8" x 7/8" w/screen	20	120	33 lbs.
A1-TT99SWW	1" x 1" w/washer	20	120	33 lbs.
A1-TT99SWS	1" x 1" w/screen	20	120	33 lbs.



Also available with pressure check valve. Call for details.

Adjustable Slip Fitting x Adapters

.520"/.620" Tubing

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T7TOP500	7/8"	50	500	36 lbs.
A1-T9TOP500	1"	50	600	49 lbs.



Male Pipe Thread Adapters

Tape x MIPT

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5TH50	5/8" x 1/2" *	100	1,000	34 lbs.
A1-T5TH75	5/8" x 3/4"	100	900	39 lbs.
A1-T7TH75	7/8" x 3/4"	100	600	35 lbs.
A1-T9TH75	1" x 3/4"	50	500	31 lbs.
A1-T11TH75	1 1/8" x 3/4"	50	300	29 lbs.
A1-T13TH10	1 3/8" x 1"	25	250	31 lbs.



* Used in Mining applications and works with a 1 1/8" deep well socket for cordless drill installation. Call for details.

Spigot Adapter (ABS)

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5P	5/8" x 1/2"	100	1,200	35 lbs.



Socket/Spigot Adapters (ABS)

Tape x Socket/Spigot Adapter

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5P1/2	5/8" x 1/2" / 3/4"	100	900	45 lbs.
A1-T7P1/2	7/8" x 1/2" / 3/4"	100	600	45 lbs.
A1-T7P3/4	7/8" x 3/4" / 1"	50	500	34 lbs.
A1-T7P10	7/8" x 1" / 1 1/4"	50	300	38 lbs.
A1-T9P1/2	1" x 1/2" / 3/4"	50	500	40 lbs.
A1-T9P3/4	1" x 3/4" / 1"	50	500	36 lbs.
A1-T11P3/4	1 1/8" x 3/4" / 1"	25	300	35 lbs.
A1-T11P10	1 1/8" x 1" / 1 1/4"	25	300	45 lbs.
A1-T13P10	1 3/8" x 1" / 1 1/4"	25	200	39 lbs.



Elbow

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TE55	5/8"	50	600	28 lbs.



Insert Elbows

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TE5B16	5/8" x 16mm	100	500	17 lbs.
A1-TE7B18	7/8" x 18mm	100	600	32 lbs.
A1-TE7B20	7/8" x 20mm*	100	600	32 lbs.



* .720" I.D. Tubing

Tees

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TT555	5/8"	50	400	29 lbs.
A1-TT777	7/8"	20	120	35 lbs.



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Low Pressure Threaded Automatic Flush Valves

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-T5FVL	5/8"	50	600	36 lbs.
A2-T7FVL	7/8"	50	500	49 lbs.
A2-T9FVL	1"	50	500	44 lbs.

White Plunger. Flow .66 GPM to close with opening pressure .87 psi.



High Pressure Threaded Automatic Flush Valve

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-T5FVH	5/8"	50	600	33 lbs.
A2-T7FVH	7/8"	50	500	49 lbs.
A2-T9FVH	1"	50	500	44 lbs.

Orange Plunger. Flow .9 GPM to close with opening pressure 1.3 psi.



Polyethylene Tubing Adapters

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5B16	5/8" x 16mm	100	1,000	26 lbs.
A1-T7B16	7/8" x 16mm	100	600	32 lbs.
A1-T7B18	7/8" x 18mm	100	700	23 lbs.
A1-T7B20	7/8" x 20mm	100	700	48 lbs.
A1-T9B20	1" x 20mm	50	350	26 lbs.
A1-T11B20	1 1/8" x 20mm	50	300	30 lbs.



Polyethylene Tubing Adapter Elbows

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TE5H5	5/8" x 500	25	300	48 lbs.
A1-TE5H6	5/8" x 600	25	300	51 lbs.
A1-TE5H7	5/8" x 700	25	200	38 lbs.
A1-TE7H5	7/8" x 500	25	300	28 lbs.
A1-TE7H6	7/8" x 600	25	300	30 lbs.
A1-TE7H7	7/8" x 700	25	250	26 lbs.
A1-TE9H8	1" x 800	25	250	35 lbs.
A1-TE11H8	1 1/8" x 800	25	150	39 lbs.

Other combinations are available - call for details. Not a stocked item so assembly is required which may extend shipping times.



45 Degree Polyethylene Tubing Adapters

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-45TE5H5	5/8" x 500	25	250	46 lbs.
A1-45TE5H7	5/8" x 700	25	250	49 lbs.
A1-45TE7H6	7/8" x 600	25	250	49 lbs.
A1-45TE7H7	7/8" x 700	25	250	50 lbs.
A1-45TE9H8	1" x 800	25	200	47 lbs.
A1-45TE11H8	1 1/8" x 800	20	140	40 lbs.

Other combinations are available - call for details. Not a stocked item so assembly is required which may extend shipping times.



Hose Adapters

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5H5	5/8" x 500	100	600	49 lbs.
A1-T5H6	5/8" x 600	50	500	43 lbs.
A1-T7H5	7/8" x 500	50	400	42 lbs.
A1-T7H6	7/8" x 600	50	400	45 lbs.
A1-T7H7	7/8" x 700	50	350	40 lbs.
A1-T7H8	7/8" x 800	50	300	38 lbs.
A1-T7H10	7/8" x 1000	50	400	68 lbs.
A1-T9H6	1" x 600	50	500	58 lbs.
A1-T9H7	1" x 700	50	500	60 lbs.
A1-T9H8	1" x 800	50	300	57 lbs.
A1-T11H8	1 1/8" x 800	25	300	31 lbs.
A1-T13H8	1 3/8" x 800	25	250	64 lbs.
A1-T13H10	1 3/8" x 1000	25	250	83 lbs.



425 Series Barb with Grommet for PVC

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-T5T0G	5/8"	100	800	36 lbs.



5/8" x Barbed Adapter Tees

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TT55B250	5/8" x 5/8" x 250B	50	400	33 lbs.
A1-TT55B400	5/8" x 5/8" x 400B	50	400	31 lbs.
A1-TT55B700	5/8" x 5/8" x 700B	50	400	33 lbs.



Glue-in Adapter Tees (ABS)

Tape x Tape x Socket/Spigot Tee

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TT55P1/2	5/8" x 5/8" x 1/2" Socket/3/4" Spigot	50	400	27 lbs.
A1-TT55P3/4	5/8" x 5/8" x 3/4" Socket/1" Spigot	50	400	30 lbs.
A1-TT77P3/4	7/8" x 7/8" x 3/4" Socket/1" Spigot	25	150	31 lbs.



Socket/Spigot Elbows (ABS)

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TE7P1/2	7/8" x 1/2" / 3/4"	50	500	34 lbs.
A1-TE7P3/4	7/8" x 3/4" / 1"	50	450	34 lbs.



'Y' Fittings

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TY555	5/8"	20	160	27 lbs.
A1-TY777	7/8"	10	100	30 lbs.



FITTINGS FOR USE WITH PRE-INSTALLED GROMMETS IN VERTICAL ORIENTATION

Threaded Plugs

1/2" MIPT

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-PLUGTH50	1/2"	100	3,000	43 lbs.
A1-TH50PLUGH10	1/2"	100	3,000	49 lbs.



Threaded Take-Off Elbows

Tape x 1/2" Male Pipe Thread

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TE5TH50	5/8"	50	400	16 lbs.
A1-TE7TH50	7/8"	50	600	29 lbs.



For built-in grommet in LayFlat. Elbow has molded stop on threads.

Threaded Take-Off Tees

Tape x Tape x 1/2" Male Pipe Thread

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-TT55TH50	5/8"	50	250	17 lbs.
A1-TT77TH50	7/8"	50	300	27 lbs.



For built-in grommet in LayFlat. Tee has molded stop on threads.

Elbow Adapters

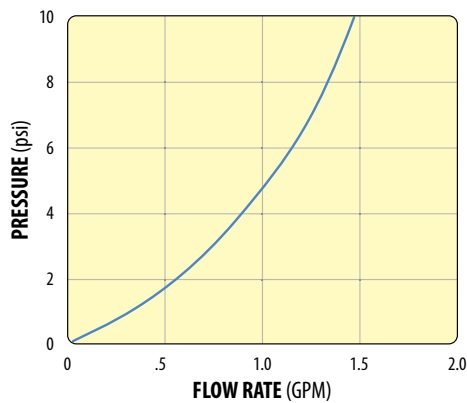
1/2" MIPT

Part Number	Series	Bag Qty	Box Qty	Box Wt
A5-TH50EHT	MHT Elbow	100	600	16 lbs.
A5-TH50EP1/2	Socket/Spigot*	50	600	21 lbs.

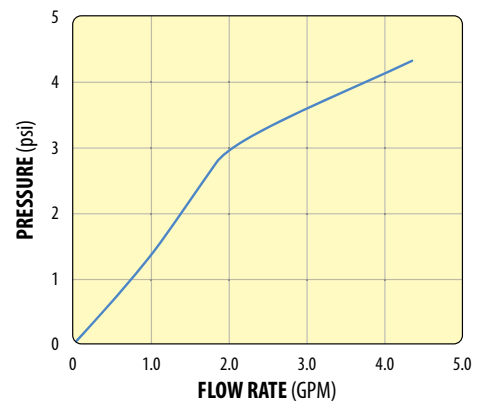


* 1/2" - 3/4" Socket/Spigot

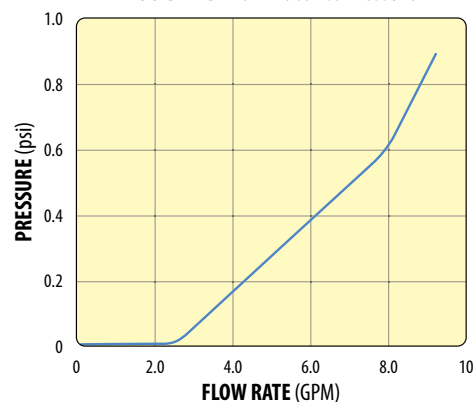
250 BARB Flow Rate vs. Pressure



400 BARB Flow Rate vs. Pressure



700 BARB Flow Rate vs. Pressure





400 Series Barb x 5/8" Tube Assemblies

PE .375" x .455" Tubing

Part Number	Length	Bag Qty	Box Qty
A3-T5B400CL12	12"	1	500
A3-T5B400CL18	18"	1	250
A3-T5B400CL24	24"	1	100

700 Series Barb x 7/8" Tube Assemblies

PE .620" x .710" Tubing

Part Number	Length	Bag Qty	Box Qty
A3-T7B700CL18	18"	1	100
A3-T7B700CL24	24"	1	100
A3-T7B700CL36	36"	1	100
A3-T7B700CL42	42"	1	25

Tape Tube Assemblies are also available for 1", 1 1/8" and 1 3/8" thin wall dripline - call for details.



400 Series Starter Connector Tubes

PE .375" x .455" Tubing

Part Number	Length	Bundle Qty	Box Qty
BL-375X455CL12	12"	100	1,500
BL-375X455CL18	18"	100	1,500
BL-375X455CL24	24"	100	1,500



400 Series Starter Connector Tubes with Barb

PE .375" x .455" Tubing

Part Number	Length	Bag Qty	Bundle Qty
A3-375X455B12	12"	1	50
A3-375X455B18	18"	1	50
A3-375X455B24	24"	1	50



Adjustable Slip Fitting x Tube Assembly

PE .520" x .620" Tubing

Part Number	Series	Bag Qty	Box Qty
A3-T7TOP500CL24	7/8" x 24" Tube	1	100

Also available for 1" thin wall dripline - call for details.



PERMA-LOC FITTINGS & VALVES FOR THIN WALL DRIPLINES & TAPE

PERMA-LOC VALVES

We offer a variety of valves for control of distribution tubing. The modular design is unmatched in performance, durability and selection while providing quick installation.

Shut-Off Valves

Tape x Valve x Tape

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV55	5/8"	50	250	18 lbs.
A2-TV77	7/8"	50	400	15 lbs.
A2-TV99	1"	25	175	36 lbs.



Barb Shut-Off Valves

5/8" Tape x Valve x Barb

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5B250	5/8" x 250B	50	350	20 lbs.
A2-TV5B400	5/8" x 400B	50	350	20 lbs.
A2-TV5B420	5/8" x 420B	50	250	20 lbs.



250B = .250" I.D. Hose 400B = .375" I.D. Hose

Male Pipe Thread Shut-Off Valves

5/8" Tape x Valve x MIPT

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5TH50	5/8" x 1/2"	50	250	16 lbs.
A2-TV5TH75	5/8" x 3/4"	50	250	18 lbs.



LayFlat Valves

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5LF	5/8"	50	200	17 lbs.
A2-TV7LF19-0	7/8"	25	200	42 lbs.



Part A2-TV5LF use B5-CLF14B Orange and for Part A2-TV7LF19-0 use B5-CL19R Blue.

Flow Direction



Dual Line Drip Starter 'Y'

Female Hose Swivel x Tape x Tape with High Flow Valve

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-SYT5HFVHFS	5/8"	1	150	35 lbs.

ONE-WAY VALVES

Valves are unidirectional - flows one way.

Various combinations are available - call for details.

Flow Direction



Socket/Spigot Shut-Off Valves

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5P1/2-0	1/2" / 3/4" x 5/8"	50	400	13 lbs.
A2-TV7P1/2-0	1/2" / 3/4" x 7/8"	50	300	15 lbs.
A2-TV9P1/2-0	1/2" / 3/4" x 1"	50	300	15 lbs.

Flow Direction



Socket/Spigot Shut-Off Valves - High Flow

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV7P3/4-0	3/4" / 1" x 7/8"	25	225	37 lbs.
A2-TV9P3/4-0	3/4" / 1" x 1"	25	225	42 lbs.
A2-TV11P3/4-0	3/4" / 1" x 1 1/8"	20	140	37 lbs.
A2-TV13P3/4-0	3/4" / 1" x 1 3/8"	20	140	42 lbs.

Flushing Valves

Flow Direction



Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5P1/2-I	5/8" x 1/2" / 3/4"	50	400	13 lbs.
A2-TV7P1/2-I	7/8" x 1/2" / 3/4"	50	300	15 lbs.
A2-TV9P1/2-I	1" x 1/2" / 3/4"	50	300	15 lbs.

Flow Direction



Flushing Valves - High Flow

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV7P3/4-I	7/8" x 3/4" / 1"	25	225	37 lbs.
A2-TV9P3/4-I	1" x 3/4" / 1"	25	225	37 lbs.
A2-TV11P3/4-I	1 1/8" x 3/4" / 1"	20	140	37 lbs.
A2-TV13P3/4-I	1 3/8" x 3/4" / 1"	20	140	42 lbs.

Flow Direction



Flushing Valves - Short Handle

Part Number	Series	Bag Qty	Box Qty	Box Wt
A2-TV5P1/2SH-I	5/8" x 1/2" / 3/4"	50	400	37 lbs.
A2-TV7P1/2SH-I	7/8" x 1/2" / 3/4"	50	300	40 lbs.
A2-TV9P1/2SH-I	1" x 1/2" / 3/4"	50	300	40 lbs.

ACCESSORIES & COMPONENTS

Plastic Handle Tie Tool



Part Number	Bag Qty	Box Qty	Box Wt
B5-RBPTT	1	100	33 lbs.

Automatic Wire Tie Tool



Part Number	Bag Qty	Box Qty	Box Wt
B5-RBAWTT	1	25	23 lbs.

Galvanized Wire Ties

Part Number	Length	Bundle Qty
B5-WT18GG06	6"	2,500
B5-WT18GG08	8"	2,500



Grommets

Part Number	Series	Bag Qty	Box Qty	Box Wt
A1-AGRO	400/420	100	5,000	28 lbs.
A1-AGRO17	425	500	5,000	38 lbs.
A1-AGRO700	700	1	2,000	26 lbs.
A1-AGRO825	825	200	2,000	17 lbs.



700 Series Barb minimum 1½" PVC pipe diameter.

825 Series Barb minimum 3" PVC pipe diameter.

Grommet Installation:

Use a non-petroleum based lubricant when inserting the barb into the grommet and avoid twisting to prevent tearing.

Series	Hole Size
400	9/16"
420	16mm or 5/8"
425	17mm or 11/16"
700	3/4"
825	15/16"

Drill Bits for Grommets

Part Number	Hole Size	Grommet	Bag Qty
B5-SBIT14	14mm - 9/16"	A1-AGRO	1
B5-SBIT16	16mm - 5/8"	A1-AGRO	1
B5-SBIT17	17mm - 11/16"	A1-AGRO17	1
B5-SBIT19	19mm - 3/4"	A1-AGRO700	1
B5-SBIT25	25mm - 15/16"	A1-AGRO825	1



For best results, use the low speed setting on your drill. Using these bits at high speeds can result in irregular holes, pipe cracking and premature bit wear.

Drill and Tap Combo Bits

Part Number	Series	Bag Qty
B5-DTBIT25	¼" NIPT	1
B5-DTBIT50	½" NIPT	1
B5-DTBIT75	¾" NIPT	1



Fix It Sticks

Part Number	Bag Qty	Box Qty	Box Wt
D5-GFIS12B	250	2,500	24 lbs.
D5-GFIS12	Bulk	2,500	25 lbs.

