



Quick Sheet Instructions

Installation Instructions for 1.25"/33mm Perch Pipe

Overview:

This Quick sheet will aid in the installation of either a 1-1/4" or 33mm OD perch pipe with a 1-1/8" (28.6mm) gap above a water line. The components to be used are as follows: (1) Regulator Bracket Assembly (P/N: VR202KL) at the end of each line, (1) Metal Holding Clamp Assembly (P/N: 820669) every 10' along the lines, (1) Plastic Intermediate Pipe Support Kit (P/N: 820672) every 2' between metal holding clamps (total of (5) per 10' section), and (1) End Assembly Kit (P/N: 820670 for US, 820680 for SI) per line. Additional, optional components: Mid-line Slope Regulator Assembly (P/N: VR204KL), and In-line Slope Regulator/ Air Release Kits (P/Ns: 820752 thru 820767)

NOTES:

Support pipes must be supported every 8'-10' (244cm-305cm). Connect drop cords by either wrapping cords around perch pipe directly or by suspending from metal brackets. Do not suspend from plastic brackets. 1.25" OD Pipe (P/N: 631865) and coupler kit (P/N: 631811) sold separately.

VR202KL - Regulator Bracket Assembly:

(1) per water line.

Assembly Instructions:

1. Insert 8" coupler into end of pipe as shown and secure with appropriate nut and bolt.
2. Slide regulator bracket over end of coupler pipe and secure to regulator with (2) VRP05-1 screws.
3. Insert 631815 plug into end of coupler pipe.
3. Secure pipe in bracket with (1) 690112 tek screw.
4. Use 3/16" rope and a thimble (not included) to hang assembly.

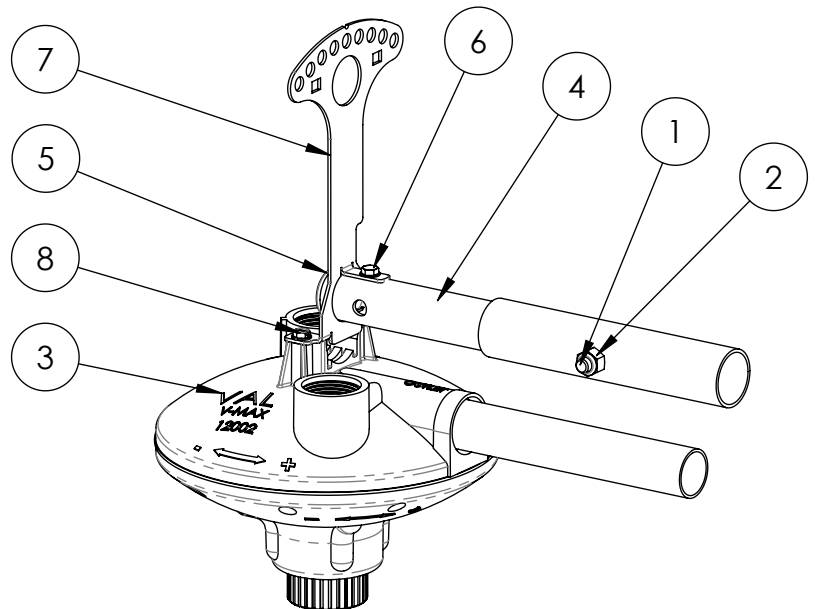


Figure 1: Components Assembled with Regulator

Parts List

VR202KL - Regulator Bracket Assembly			
Item No.	Part No.	Description	Qty
1	010649	5/16-18 X 1-3/4" HEX BOLT	1
2	012789	5/16-18 NYLOCK NUT	1
3	12002	V-MAX REGULATOR FOR VR-202	1
4	631810	1.05" OD, 8" LONG COUPLER PIPE	1
5	631815	PLUG, 1.05" OD PIPE	1
6	690112	10 X 1/2 TEK SCREW	1
7	820659	REGULATOR BRACKET	1
8	VRP05-1	REGULATOR BRACKET SCREW	2

820672 - Plastic Intermediate Pipe Support Assembly:

(5) per 10' (305cm) water pipe. Max 2' (61cm) spacing between 820672 assemblies. Must have (1) assembly 6"-8" (152mm-203mm) from o-ring side of water pipe coupler and at all regulators and in-line kits.

Assembly Instructions:

- 1. Snap bracket halves together with bottom rivet, then fit one half over pipes as shown in figure 2 to the right.
- 2. Fit other bracket half over pipes and snap in second rivet as shown in figure 3 to the right. Be sure to place rivet in correct hole, see below.

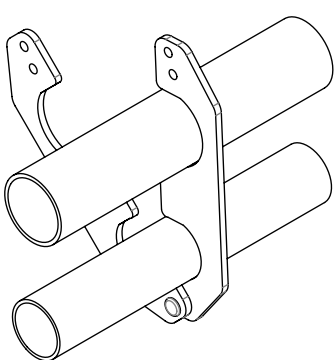


Figure 2: Top open

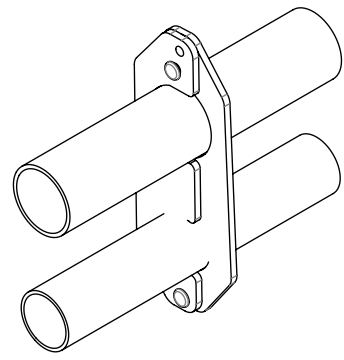


Figure 3: Top closed

NOTE: For 1.25" OD perch pipe, place top rivet in bottom hole of bracket, see figure 4. For 33 mm OD perch pipe, place rivet in top hole of bracket, see figure 5.

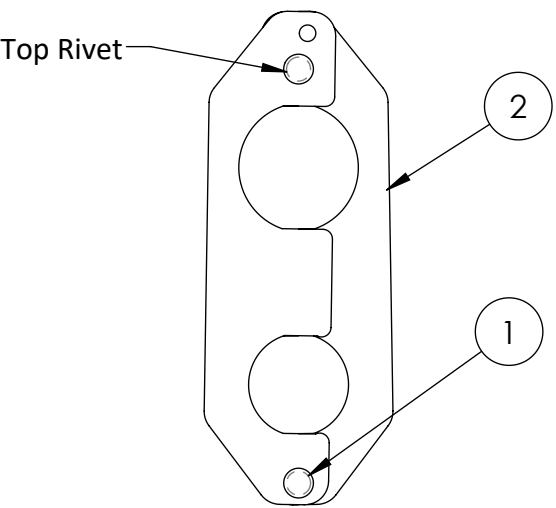


Figure 4: Installation with 1.25" pipe

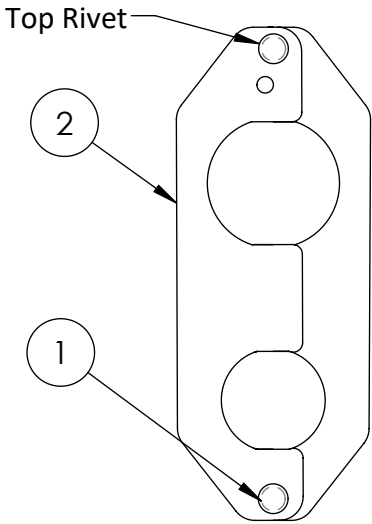


Figure 5: Installation with 33 mm pipe

Parts List

820672 - Plastic Intermediate Pipe Support Assembly			
Item No.	Part No.	Description	Qty
1	640404	Intermediate Pipe Support Rivet	2
2	820655	Plastic Pipe Support Bracket	2

NOTE: 1.25" OD Pipe (P/N: 631865) and Coupler kit (P/N: 631811) sold separately.

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820669 - Metal Holding Clamp Assembly:

Every 8'-10' (244cm-305cm), on top of each water line coupler.

NOTE: 820669 metal holding clamp must be assembled after all 820672 plastic intermediate pipe supports are fully assembled. A plastic support must be located 6"-8" (152mm- 203mm) from the o-ring side of the coupler.

Assembly Instructions:

1. Align metal clamps over the center of the water line coupler as shown in figure 6 to the right.
2. Insert and tighten 690425 carriage bolt through middle.
3. Insert (2) 690112 tek screws into metal pipe.

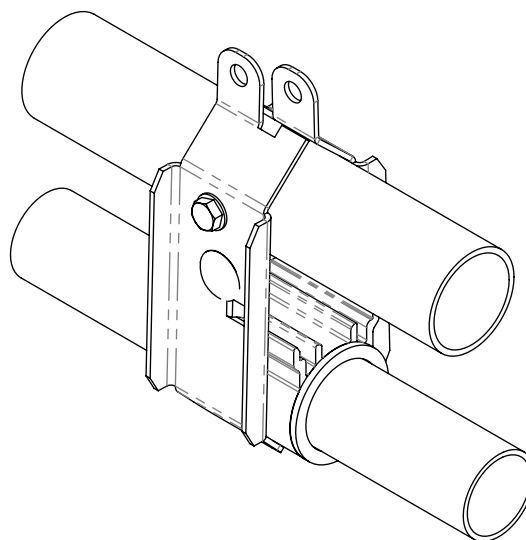


Figure 6: Isometric View of Assembly

Parts List

820669 - Metal Holding Clamp Assembly			
Item No.	Part No.	Description	Qty
1	690112	10 x 1/2 TEK SCREW	2
2	690236	1/4-20 HEX NUT, SER FLG	1
3	690425	1/4-20 X 1-3/4" CRG BOLT	1
4	820660	HOLDING CLAMP HALF	2

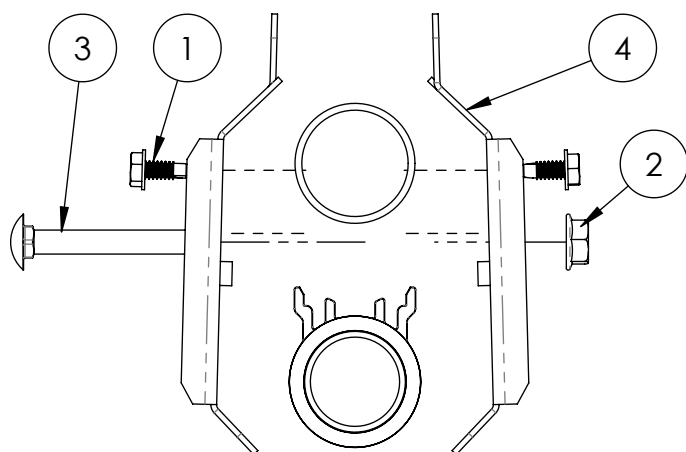


Figure 7: Exploded View of Components

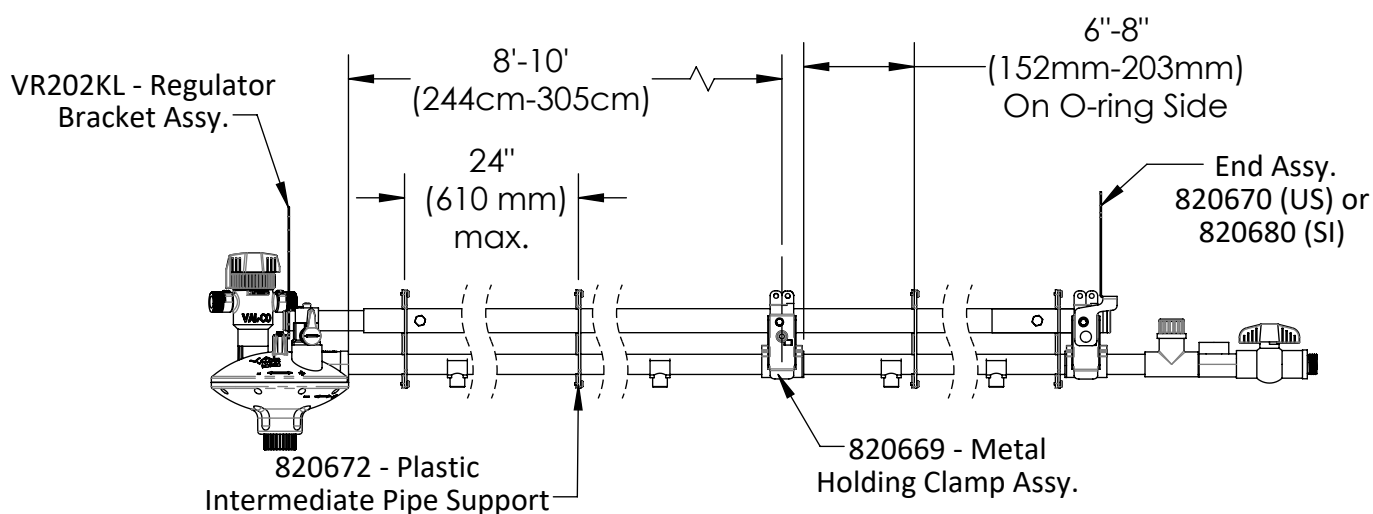


Figure 8: Recommended Spacing of Components

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End Assembly - 820670 (US) and 820680 (SI)

(1) Per water line.

Assembly Instructions:

1. Insert 820641 onto end of water pipe.
2. Use PVC cement to glue garden hose adapters (P/N: VE326 for US, VE326M for SI) and ball valve (P/N: VV801) as shown in figure 9.
3. Align 820660 - metal clamps over the center of the water line coupler.
4. Slide 820661 - end assembly bracket over top of metal clamp halves, aligning square holes.
5. Insert and tighten 690425 carriage bolt through both 820660 clamp halves and 820661 bracket.
6. Insert (2) 690112 tek screws through the side holes of the 820661 bracket into the metal pipe.
7. Use 3/16" rope and a thimble (not included) to hang assembly.
8. Insert 630812 plug into the end of the metal pipe.
9. If a hose is connected to the garden hose adapter on the tee, use PMTT6 Zip tie to secure hose to drop cord. Cap off tee with 820683 (US) or 820684 (SI) if not used.

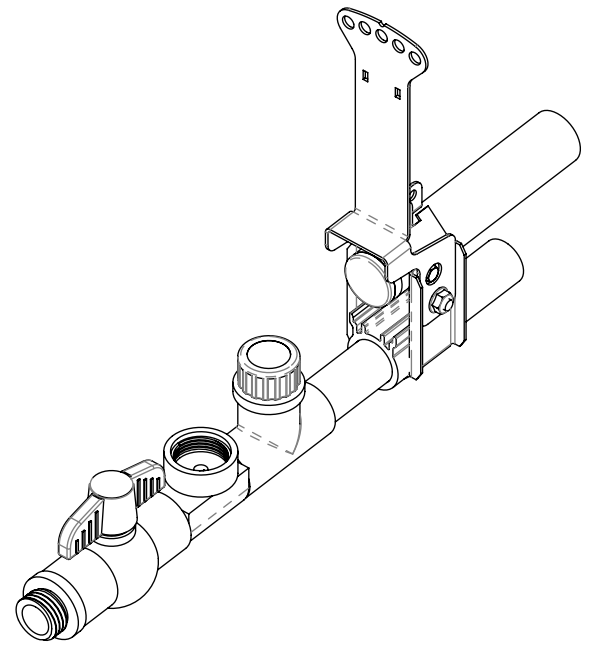


Figure 9 - Isometric View of Assembly

Parts List

End Assembly				
Item No.	Part No.	Description	Qty 820670	Qty 820680
1	631812	PLUG, 1.25" OD PIPE	1	1
2	690002	1/4-20 X 2" CRG BOLT	1	1
3	690112	10 X 1/2 TEK SCREW	2	2
4	690236	1/4-20 HEX NUT, SER FLG	1	1
5	820641	END ASSY STANDPIPE ADAPTOR	1	1
6	820660	HOLDING CLAMP HALF	2	2
7	820661	ANTI-TILT BRACKET	1	1
8	820683	3/4" GARDEN HOSE THREAD CAP, US	1	0
9	820684	3/4" GARDEN HOSE THREAD CAP, SI	0	1
10	PMTT6	WIRE TIE, 7.5"	1	1
11	VE326	GARDEN HOSE ADAPTER	2	0
12	VE326M	GARDEN HOSE ADAPTER, METRIC	0	2
13	VV801	3/4" BALL VALVE, SCH 80	1	1

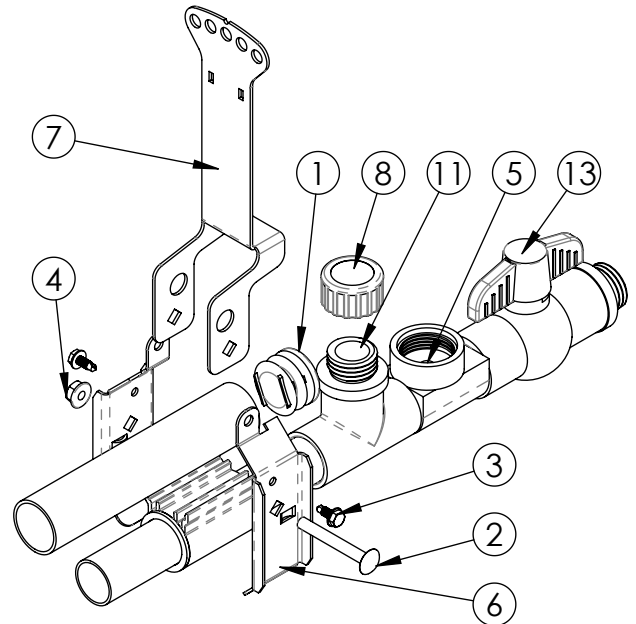


Figure 10 - Exploded View of Components
820670 - US version shown.

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VR204KL - Mid-line Slope Regulator Assembly:

Adjustable regulator to be used as needed to correct slope across a line. Water must run downhill.

Assembly Instruction:

1. Cut metal pipe at desired location for slope regulator.
2. Insert 8" coupler into one end of cut pipe. Drill 11/32" (9mm) hole and use appropriate nut and bolt to secure coupler.
3. Slide regulator bracket over coupler pipe.
4. Insert 8" coupler into the other cut end of pipe. Ensure that the 1.05" coupler section is wide enough to avoid interference with installation of standpipe bases. Approx. 4" (100 mm). Drill hole and secure with nut and bolt.
5. Secure regulator to bracket with (2) VRP05-1 screws.
6. Use 3/16" rope and a thimble (not included) to hang assembly.

Parts List

VR204KL - Slope Regulator Bracket Assembly

Item No.	Part No.	Description	Qty
1	010649	5/16-18 X 3/4" HEX BOLT	2
2	012789	5/16-18 NYLOCK NUT	2
3	12004	V-MAX SLOPE REGULATOR	1
4	631810	PIPE, 1.05" OD, 8" LG, W/ HOLES	1
5	690112	10X 1/2" TEK SCREW	1
6	820659	BRACKET, REGULATOR	1
7	VRP05-1	#12 X 3/4" SCREW	2

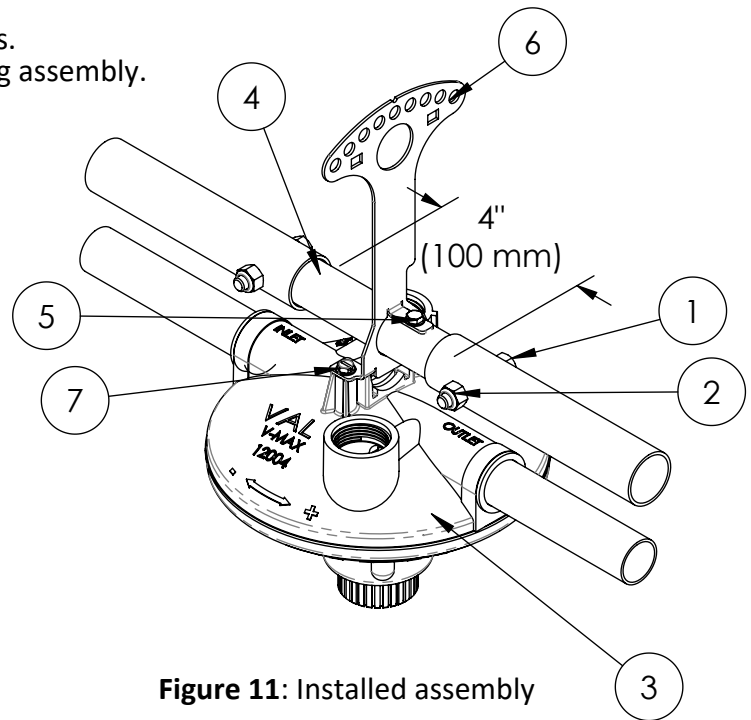


Figure 11: Installed assembly

In-line Slope Regulator/ Air Release Kits:

Use (1) in-line slope regulator kit to remove 5" (127mm) of standpipe pressure gained from a sloped line. Multiple fixed in-line slope regulators may be used, but must not exceed (4) before requiring the use of a VR204KL adjustable mid-line slope regulator.

Air release kits let out air from the lines with no impact on pressure/slope. Use as needed.

Shut-off assemblies include an air release and a ball valve. See next page for drawings and parts lists.

Assembly instructions:

1. Install desired in-line kit onto the water line, cutting water pipe to proper length as needed.
2. Attach all plastic and metal brackets as instructed in previous pages of quicksheet. Ensure that a plastic support assembly (P/N: 820672) is within 8" of both sides of the in-line assembly.
3. Slide anti-rotation bracket (P/N: 820743) over legs on bottom of slope regulator body, as shown in figure 13.
4. While holding bracket flush to bottom of slope regulator, insert provided tek screw (P/N: 690112) into metal pipe.

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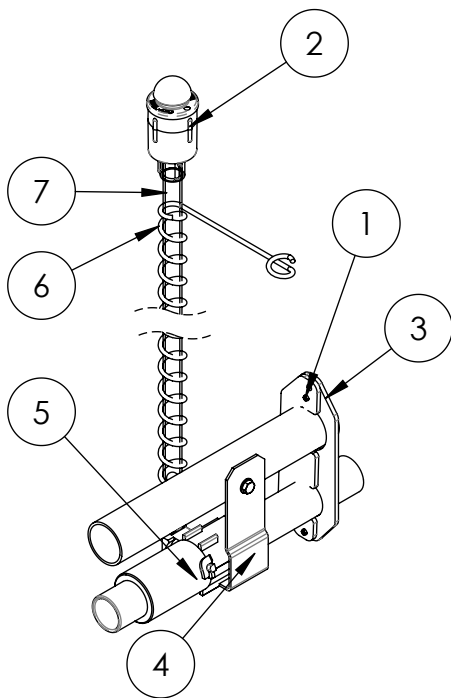


Figure 12: Installed Components
(820752 Shown)

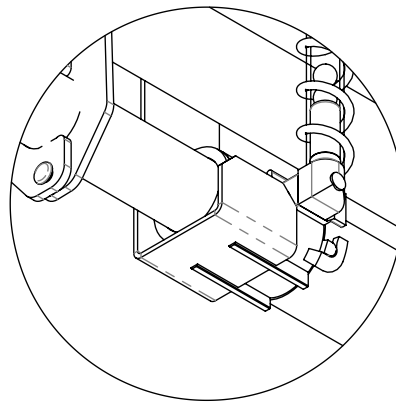


Figure 13: Bottom view

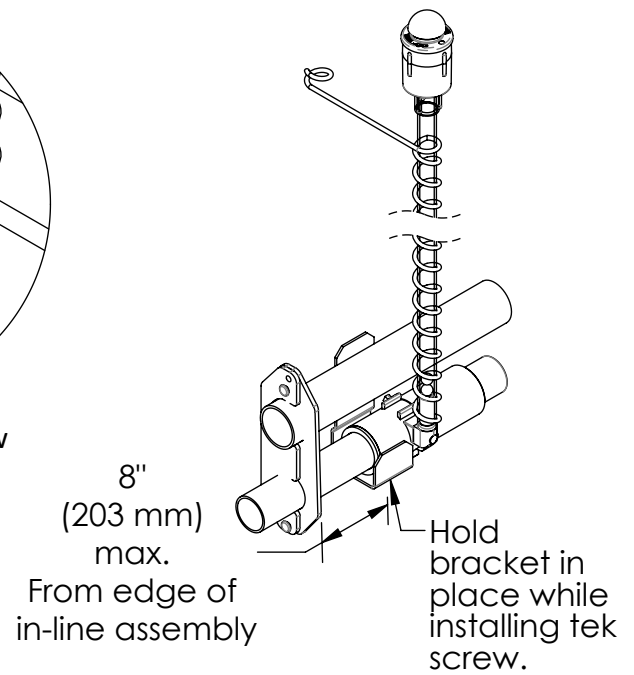


Figure 14: Recommended Spacing and Installation
(820752 shown)

Parts List

820752, 820753, 820754, 820755, 820756, 820757 - Slope Regulator Assemblies - Common Parts								
Item #	Part #	Description	820752	820753	820754	820755	820756	820757
1	640404	Rivet for Pipe Support	2	2	2	2	2	2
2	820227	Hardware Bag, Flat Cap, Flex	0	1	0	1	0	1
	820349	Hardware Bag, Truseal, Flex	1	0	1	0	1	0
3	820655	Plastic Pipe Support Bracket	2	2	2	2	2	2
4	820744	Anti-Rot Bracket Kit	1	1	1	1	1	1
5	VR209P	Slope Regulator, Automatic Flush	1	1	1	1	1	1
6	VS130	18" Spring, for Flex	1	1	0	0	0	0
	VS132	24" Spring, for Flex	0	0	1	1	0	0
	VS133	30" Spring, for Flex	0	0	0	0	1	1
7	VSP18FX	18" Flex Standpipe	1	1	0	0	0	0
	VSP24FX	24" Flex Standpipe	0	0	1	1	0	0
	VSP30FX	30" Flex Standpipe	0	0	0	0	1	1

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Additional Parts Lists

820758, 820759, 820760, 820761 - Air Release Assemblies - Common Parts						
Item #	Part #	Description	820758	820759	820760	820761
1	640404	Rivet for Pipe Support	2	2	2	2
2	820227	Hardware Bag, Flat Cap, Flex	0	1	0	1
	820349	Hardware Bag, Truseal, Flex	1	0	1	0
3	820655	Plastic Pipe Support Bracket	2	2	2	2
4	820744	Anti-Rot Bracket Kit	1	1	1	1
5	VR209S	Air Release w/ "L" Stem	1	1	1	1
6	VS132	24" Spring, for Flex	1	1	0	0
	VS133	30" Spring, for Flex	0	0	1	1
7	VSP24FX	24" Flex Standpipe	1	1	0	0
	VSP30FX	30" Flex Standpipe	0	0	1	1

820762, 820763, 820764, 820765, 820766, 820767 - Air Release Shut Off Assemblies - Common Parts								
Item #	Part #	Description	820762	820763	820764	820765	820766	820767
1	640404	Rivet for Pipe Support	2	2	2	2	2	2
2	820227	Hardware Bag, Flat Cap, Flex	0	1	0	1	0	1
	820349	Hardware Bag, Truseal, Flex	1	0	1	0	1	0
3	820655	Plastic Pipe Support Bracket	2	2	2	2	2	2
4	820744	Anti-Rot Bracket Kit	1	1	1	1	1	1
5	VR209S	Air Release w/ "L" Stem	1	1	1	1	1	1
6	VS130	18" Spring, for Flex	1	1	0	0	0	0
	VS132	24" Spring, for Flex	0	0	1	1	0	0
	VS133	30" Spring, for Flex	0	0	0	0	1	1
7	VSP18FX	18" Flex Standpipe	1	1	0	0	0	0
	VSP24FX	24" Flex Standpipe	0	0	1	1	0	0
	VSP30FX	30" Flex Standpipe	0	0	0	0	1	1
8	VV801	3/4" Ball Valve, Sch 80	1	1	1	1	1	1

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