Pipe Preparation Tool Specifications



The distinguishing feature of the Victaulic grooved mechanical piping system is, as the name implies, a groove where the pipe and fitting engage to form a self-restraining joint. The position, depth and cross-section of this groove combine with the fitting housing in an optimal strength-to-weight relationship. The result is a permanent connection capable of withstanding thrust loads up to the maximum rated operating pressure.

Roll grooving is the method of choice for preparing pipe made of standard or light-wall carbon steel, stainless steel, aluminum, PVC, copper and other materials. Both roll and cut grooving meet the requirements of ANSI/AWWA C-606. Victaulic Company's first recommendation is that the pipe end be square cut. However, beveled end pipe may be used provided the wall thickness is standard or less, and the bevel meets ASME/ANSI B16.25 (37½°) or ASTM A-53 (30°). Square cut pipe must be used with FlushSeal® and EndSeal® gaskets.

Victaulic Vic-Easy® roll grooving tools are all designed to rotate the pipe or orbit the pipe as a male grooving roll is impressed into the pipe. The support roll, in addition to driving the pipe or tool, is the female die inside the pipe. For all but the VE12, VE26, VE46, VE106, and VE226 tools, Victaulic roll groovers use hydraulic pressure to force the grooving roll into the pipe to form the groove. Roll grooving removes no metal; the groove is cold formed into the pipe wall.

All Victaulic cut groovers are designed to be driven around a stationary pipe to machine away material, providing a groove. The design of the tool assures a groove which is concentric with the pipe O.D., even with out-of-round pipe. Cut grooving is basically designed for standard weight or heavier wall thicknesses of pipe. A square cut groove is used for steel and other metallic IPS pipe. This provides maximum coupling gripping efficiency and the fullest pipe movement capabilities.

JOB/OWNER	CONTRACTOR	ENGINEER	
System No	Submitted By	Spec Sect Para	
Location	Date	Approved	
		Date	



Pipe Preparation Tool Specifications

Roll Grooving Tools Field Portable



VE12 GROOVE IN-PLACE

- For manual grooving of Schedule 5, 10 and 40 steel; stainless steel; aluminum and PVC pipe
- Patented enhanced tracking rolls allow bi-directional grooving
- Roll grooves $\frac{3}{4} \frac{2}{20} 50 \,\text{mm pipe}^{\dagger}$

Power Requirements: None

Weight: 17 lbs./8 kg VE12 TOOL CAPACITY

			PI	PE SIZE/SCHEDU inches/mm	LE					
Tool Model	Pipe Material	³¼ 20	1 25	1 ¼ 32	1 ½ 40	2 50				
	Steel	5 – 10		5 –	40					
VE12	Stainless			40S	Only					
VEIZ	Aluminum †									
	PVC Plastic	40								

† 6061-T4 or 6063-T4 Alloy must be used.



/E26

VE26 GROOVE IN-PLACE

- Repair and retrofit existing lightwall steel, Schedule 40 steel, stainless steel, PVC, and aluminum
- · Patented enhanced tracking rolls allow bi-directional grooving
- Model VE26C handles copper tubing (CTS) Types K, L, M and DWV plus British, DIN, and Australian Standard copper
- Model VE26SS grooves Schedule 5 and 10 stainless steel
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 power drive or VPD752
- Roll grooves 2 6"/50 150 mm pipe†

Power Requirements: None

Weight: 22 lbs./10 kg
VE26 TOOL CAPACITY

				PIPE	SIZE/SCHEI	DULE					
Tool Model	Pipe Material	2 50	2½ 65	3 80	3½ 90	4 100	5 125	6 150			
VE26S	Steel		5 – 40		5 – 10						
VE205	Stainless		40S Only								
VE26C	Copper			K,	K, L, M, & DWV*						
VE26P	Aluminum †		5 – 40								
VEZOP	PVC Plastic										
VE26SS	Lt. Wall SS	5S – 10S									

^{† 6061-}T4 or 6063-T4 Alloy must be used.

^{*} Alternative units are available for European Standard (EN) 1057 and Australian standard copper.

Pipe Preparation Tool Specifications



VE46 GROOVE IN-PLACE

- Designed for manually roll grooving Schedule 40 steel, aluminum, stainless steel and PVC pipe and Schedule 80 PVC pipe
- Patented enhanced tracking rolls allow bi-directional grooving and helps to hold the tool
 on the pipe end during the roll grooving process
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 power drive or VPD752
- Roll grooves 3½ 6"/90 150 mm pipe[†]

Power Requirements: None

Weight: 28 lbs./13 kg VE46 TOOL CAPACITY

			PI	PE SIZE/SCHEDU inches/mm	LE						
Tool Model	Pipe Material	3½ 90	4 100	4½ 120	5 125	6 150					
VE46	Steel	5 - 40									
V E40	Stainless			40S Only							
VE46P	Aluminum †	5 – 40									
VE40P	PVC Plastic	40 40 - 80									

† 6061-T4 or 6063-T4 Alloy must be used.

VE26/46 Power Drive Kit



The VE26/46 power drive kit is available to allow both tools to be directly mounted to either a Victaulic VPD752 or Ridgid* 300 Power Drive.

Newer tools with serial numbers ending in "C" are compatible with the Power Drive Kit. Tools which do not contain the "C" suffix will require retrofit to accept the Power Drive Kit. Contact Victaulic for details.

Pipe Preparation Tool Specifications

Field Portable



VE226 PORTABLE GROOVER

- Mounts to a Victaulic VPD752 or Ridgid* 300 power drive
- · Optional alternate bases available
- Tool is operated using a standard 3/8/9.5 mm square ratchet drive (not included)
- Available in six models for steel (and other IPS) pipe, copper tubing and stainless steel
- Roll grooves $\frac{3}{4} \frac{6}{20} 150 \,\text{mm}$ pipe

Drive Requirements: Fits Victaulic VPD752 or Ridgid 300 power drives. Optional bases for Ridgid 535, 1224, 1822, and Oster 310 available.

Weight: 37 lbs./17 kg
VE226 TOOL CAPACITIES

						PIF	E SIZE/ inche	SCHEDU s/mm	JLE					
Tool Model	Pipe Material	³ ⁄ ₄ 20	1 25	1 ½ 32	1½ 40	2 50	2 ½ 65	3 80	3 ½ 90	4 100	4½ 120	5 125	6 150	
VE226S	Steel				5 -	40				5 – 10				
VE2205	Stainless				40S	Only								
	Steel		5 -	40										
VE226B	Stainless		40S	Only										
VEZZOB	Aluminum †	40S Only 5 – 40												
	PVC Plastic	40		40 – 80										
VE226M	Steel							5 – 40				5 – 10		
VEZZOIVI	Stainless						4	40S Onl	у					
VE226C	Copper					K, L, M, & DWV								
VE226MSS	LT. Wall SS					5S –					10S			
VE226P	Aluminum †					5 – 40					5 – 10			
VEZZOP	PVC Plastic				40 -	- 80				4	0			

† 6061-T4 or 6063-T4 Alloy must be used.

NOTE: When ordering tools that require a power drive, you must determine the type of drive to be used. For proper operation, a power drive and pipe stand are required. See page 11 for details.

Power Drive Kit **VE226**



Kit for connecting a VE226 roll grooving tool to a Ridgid* 700 power drive

Capacity: See appropriate tool

Weight: 75 lbs./34 kg

*Ridgid is a registered trademark of the Ridge Tool Company.



Pipe Preparation Tool Specifications

Field Fabrication



VE106/VE107 GROOVE-N-GO

- Mobile light-duty roll grooving tool with an integral motor/drive unit mounted to portable hand truck
- 3/8"/9.5 mm square ratchet drive for operation (standard)
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process.
- Completely self- contained unit with an integral motor, safety foot switch and power plug
- Roll grooves $1\frac{1}{4} 6\frac{1}{32} 150 \,\text{mm}$ pipe

Power Requirements: VE106 is provided with 110 volt, 15 amp power.

VE107 is provided with 220 volt, 6 amp power.

Weight: 140 lbs./64 kg

Optional Accessories: Additional rolls/shafts are available for copper, lightwall stainless

steel, and EndSeal (ES) grooving.

VE106/VE107 TOOL CAPACITIES

						SIZE/SCHE inches/mm									
Tool Model	Pipe Material	1 ½ 32	1½ 40	2 50	2 ½ 65	3 80	3 ½ 90	4 100	5 125	6 150					
	Steel		5 – 40 Std. Rolls												
VE106	Stainless				4	0S Std. Ro	lls								
(Groove-N-Go)	Lt. Wall SS	5S – 10S RX Rolls *													
	Copper	K, L, M, & DWV Copper Rolls													

^{*} RX Rolls – "RX" is the Victaulic part code designator for grooving roll sets specifically designed for roll grooving lightwall stainless steel pipe.

Pipe Preparation Tool Specifications

Field Fabrication



VE272SFS

- Portable roll groover mounts easily to the Victaulic VPD752 or Ridgid 300 power drive
- Hand pump operation with a unique pivot arm design reduces handle effort
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Roll grooves $\frac{3}{4} \frac{12}{20} \frac{300}{9}$ mm pipe (Supplied with $2 \frac{12}{50} \frac{300}{9}$ mm roll sets)

Power Requirements: Victaulic VPD752 or Ridgid 300 power drive

Weight: 184 lbs./84 kg

Optional Rolls: Optional rolls are available for copper pipe; Schedule 5S, 10S, and 10 stainless steel pipe; $\frac{3}{4} - \frac{1}{2}\frac{1}{20} - 40 \,\text{mm}$ steel pipe, and EndSeal (ES) grooving.

Optional Accessories: An optional pipe stabilizer for 8 – 12"/200 – 300 mm pipe is available.

VE272SFS TOOL CAPACITIES

							PIPE		SCHED	ULE					
Tool Model	Pipe Material	³ / ₄ 20	1 25	1 ½ 32	1½ 40	2 50	2 ½ 65	3 80	3 ½ 90	4 100	5 125	6 150	8 200	10 250	12 300
	Steel		5 – 40 Std. Rolls 40S Std. Rolls										- 20 Rolls		
	Stainless														
	LT. Wall SS						59	5 – 10S	RX Ro	lls					
VE272SFS	Aluminum †*		5 - 40 PP Palls									- 20 Rolls			
	PVC Plastic*					40 *§		4	0 – 80	RP Rol	ls		40 *		
	Copper		K, L, M, & DWV Copper Rolls												

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[§] A special lower roll exclusively for grooving 2" Sch. 80 PVC is available.

Pipe Preparation Tool Specifications



VE270FSD/VE271FSD

- Completely self-contained unit with integral gear motor, safety guards, safety foot switch and power cord/plug
- Equipped with a unique pivot arm design, making roll changing quick and easy, without removing shafts
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Roll grooves $\frac{3}{4} \frac{12}{20} \frac{300}{12}$ mm pipe (Supplied with $2 \frac{12}{50} \frac{300}{12}$ mm roll sets)

Drive Requirements: Self-contained

Power Requirements: VE270FSD is provided with 110volt, 15amp power. VE271FSD is provided with 220volt, 6amp power.

Weight: 340 lbs./154 kg

Optional Rolls: Carbon steel Schedules 5, 10, 20, and 40; copper rolls for type K, L, M and DWV, stainless steel Rx rolls for Schedules 5S-10-10S, and $\frac{3}{4} - 1\frac{1}{2}$ "/20 – 40 mm steel nine

Optional Accessories: An optional pipe stabilizer for $8-12^{\circ\prime}/200-300\,\text{mm}$ pipe is available.

VE270FSD/VE271FSD TOOL CAPACITIES

							PIPE	SIZE/	SCHEE	ULE					
Tool Model	Pipe Material	³ / ₄ 20	1 25	1 ½ 32	1 ½ 40	2 50	2½ 65	3 80	3 ½ 90	4 100	5 125	6 150	8 200	10 250	12 300
	Steel		5 – 40 Std. ROIIS										5 – 20 Rc		
	Stainless		40S Std. Rolls												
VE270FSD	Lt. Wall SS						59	– 10S	RX Ro	lls					
VE2/0F3D	Aluminum †*		5 – 40 RP Rolls										20 RP olls		
	PVC Plastic *					40 *§		4	0 – 80	RP Rol	ls		40 *		
	Copper		K, L, M, & DWV Copper Rolls												

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[§] A special lower roll exclusively for grooving 2" Sch. 80 PVC is available.

Pipe Preparation Tool Specifications

Field Fabrication



VE/16E9

- For field roll grooving of 2" 16"/50 400 mm standard wall pipe, lightwall steel pipe, as well as aluminum, stainless and PVC plastic pipe
- · Groove depth adjuster allows for easy adjustment for initial groove diameter
- \bullet Roll grooves 2 16"/50 400 mm pipe (Supplied with 2 12"/50 300 mm original rolls and 14 16"/350 400 mm AGS rolls).
- Equipped with a pipe stabilizer for 6" 16"/150 400 mm pipe sizes to control pipe swav

Power Requirements: Victaulic VPD752 or Ridgid 300 power drive

Weight: 240 lbs./109 kg

Optional Rolls: Optional rolls are available for Schedule 5S and 10S stainless steel pipe, PVC and aluminum pipe, and type K, L, M and DWV copper tubing.

AGS roll sets for $14 - 16^{\circ}/350 - 400 \,\mathrm{mm}$ std. wall carbon steel pipe are now standard.

Tools sold prior to October, 2005, are equipped with the original groove rolls that cannot be used to groove AGS profile. AGS roll sets can be ordered separately. Contact Victaulic for pricing and availability.

For $14 - 16"/350 - 400\,\mathrm{mm}$ product applications requiring the original groove roll sets, please contact Victaulic for ordering information.

VE416FS TOOL CAPACITIES

							SIZE/SCH inches/mi						
Tool Model	Pipe Material	2 50	2½ 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	
	Steel				5 – 40 S	td. Rolls					d- Wall C roove O		
	Std. Wall Stainless				% Std- RW-AGS								
	Lt. Wall SS												
VE416FS	AGS Lt. Wall SS										10S RW	X Rolls #	
	Aluminum †*		5 – 40 RP Rolls 5 – Std. Wall *										
	PVC Plastic *			40 – 80	RP Rolls			40 *					
	Copper		K,										

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[#] Special RWX rolls for grooving true sch. 10 (0.250 - 6.4 mm) are available.

Pipe Preparation Tool Specifications



VF416FSD/VF417FSD

VE416FSD/VE417FSD

- For field roll grooving of 2" 16"/50 400 mm standard wall pipe, lightwall steel pipe, as well as aluminum, stainless and PVC plastic pipe
- · Groove depth adjuster allows for easy adjustment for initial groove diameter
- Completely self-contained units with integral gear motors, safety foot switch and power cord/plug
- Roll grooves 2 16"/50 400 mm pipe
- Equipped with a pipe stabilizer for 6" 16"/150 400 mm pipe sizes to control pipe sway

Power Requirements: VE416FSD is provided with 110 volt, 15 amp for integral gear motor VE417FSD is provided with 220 volt, 8 amp service

Weight: 340 lbs./154 kg

Optional Rolls: Optional rolls are available for Schedule 5S and 10S stainless steel pipe, PVC and aluminum pipe, and type K, L, M and DWV copper tubing.

AGS roll sets for $14 - 16^{\circ}/350 - 400 \,\mathrm{mm}$ std. wall carbon steel pipe are now standard.

Tools sold prior to October, 2005, are equipped with the original groove rolls that cannot be used to groove AGS profile. AGS roll sets can be ordered separately. Contact Victaulic for pricing and availability.

For $14 - 16"/350 - 400 \,\mathrm{mm}$ product applications requiring the original groove roll sets, please contact Victaulic for ordering information.

VE416FSD/VE417FSD TOOL CAPACITIES

							SIZE/SCH inches/mi						
Tool Model	Pipe Material	2 50	2½ 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	
	Steel				5 – 40 S	itd. Rolls					d: Wall C roove O		
	Std. Wall Stainless				% Std- RW-AGS								
VE416FSD/	Lt. Wall SS												
VE417FSD	AGS Lt· Wall SS										10S RW	'X Rolls #	
	Aluminum †*		5 – 40 RP Rolls 5 – Std. Wall *										
	PVC Plastic *			40 – 80	RP Rolls			40 *					
	Copper		K, L, M, & DWV Copper Rolls										

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[#] Special RWX rolls for grooving true sch. 10 (0.250 – 6.4 mm) are available.

Pipe Preparation Tool Specifications

Field Fabrication



VE450FSD

- Designed for field roll grooving of 4 24"/100 600 mm pipe
- Tool is supplied with roll sets for grooving 4 12"/100 300 mm original groove and 14 – 24"/350 – 600 mm AGS groove on carbon steel pipe
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process, and quick change upper roll design
- Features:
 - Lifting point to move the tool using a crane
 - Frame can accept most fork lifts
 - On board storage for tool accessories

Power Requirements: VE450FSD is a self-contained unit with two 220 volt, single phase 50/60 hz, 20 amp integral gear motors to handle heavier loads, safety foot switch and power cord/plug

Weight: 825 lbs./374 kg

Optional Rolls: Optional rolls are available for $14-24/350-600\,\mathrm{mm}$ carbon steel original groove; $4-12/100-400\,\mathrm{mm}$ lightwall stainless steel original groove; $14-24/350-600\,\mathrm{mm}$ lightwall stainless steel AGS groove; and $4-12/100-400\,\mathrm{mm}$ EndSeal (ES) groove.

VE450 FSD TOOL CAPACITIES

Pipe Material					PIF		SCHEDU s/mm	ILE				
VE450FSD	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600
Steel‡			5 – 40				Sch. 5 -	- Std. Wa	all Origir	nal Groo	ve Only	
Steei+								Sch. 1	0 & Std.	Wall RV	V-AGS	
Cutalian		40	S Std. Ro	olls		S	td. Wall,	Std. Rol	ls			
Stainless								9	td. Wall	RW-AG	S	
Lt. Wall SS		5	S – 10S I	RX Rolls	@		5S/10	S/10 RX	Rolls			
AGS Lt. Wall SS									10S RW.	X Rolls #		
Aluminum *†		5 –	40 RP R	olls								
PVC Plastic*		40 – 80		40								

- ‡ EndSeal (ES) rolls are available. Contact Victaulic for details.
- @ These rolls are not interchangeable with rolls sets from other tool models. Contact Victaulic for ordering information.
- * Use RP Rolls.
- † 6061-T4 or 6063-T4 must be used. RP Rolls must be used.
- # Special RWX rolls for grooving true sch. 10 (0.250 6.4 mm) are available.

Pipe Preparation Tool Specifications

Plant/Shop Fabrication



VE268

- · Designed for fabrication shop roll grooving
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Equipped with a unique pivot arm design, making roll changes quick and easy, without removing shafts
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Roll grooves $\frac{3}{4} \frac{12}{20} \frac{300}{9}$ mm pipe $(\frac{3}{4} \frac{1}{2})^2/20 \frac{32}{9}$ mm rolls are optional)

Drive Requirements: Self-contained

Power Requirements: The tool can also be supplied in various voltages; contact Victaulic for details.

Weight: 735 lbs./333 kg

Optional Rolls: Optional rolls are available for carbon steel Schedules 5, 10, and 40; copper rolls for type K, L, M and DWV, stainless steel Rx rolls for Schedules 5S, 10, and 10S, and $\frac{3}{4} - 1\frac{1}{2}$ "/20 – 40 mm steel pipe.

Optional Accessories: An optional pipe stabilizer for $8 - 12"/200 - 300 \, \text{mm}$ pipe is available and is suggested for grooving $8"/206.4 \, \text{mm}$ copper tubing.

VE268 TOOL CAPACITIES

							PIPE		SCHED s/mm	ULE						
Tool Model	Pipe Material	³⁄₄ 20	1 25	1 ½ 32	1½ 40	2 50	2 ½ 65	3 80	3½ 90	4 100	5 125	6 150	8 200	10 250	12 300	
	Steel					5	– 40 S	td. Rol	ls						5 – 20 Std. Rolls	
	Stainless		40S Std. Rolls													
	Lt. Wall SS		5S – 10S RX Rolls													
VE268	Aluminum †*		5 40 PD Polls										20 Rolls			
	PVC Plastic *		40 *\$ 40 - 80 RP Rolls 40 RP Rolls													
	Copper		K, L, M, & DWV Copper Rolls													

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[§] A special lower roll exclusively for grooving 2" Sch. 80 PVC is available.

Pipe Preparation Tool Specifications

Plant/Shop Fabrication



VE414MC

VF414MC

- Designed for fabrication shop roll grooving Schedule 5, 10, and standard wall carbon steel pipe, standard wall stainless steel pipe, Schedule 40, 80 PVC pipe, and standard wall aluminum pipe
- Unique roll design, making roll changing quick and easy, without removing main shafts
- Patented enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- The tool comes equipped with pipe stabilizers to provide smooth grooving operation
- Roll grooves $2-16"/50-400\,\mathrm{mm}$ pipe (Supplied with $2-12"/50-300\,\mathrm{mm}$ original rolls and $14-16"/350-400\,\mathrm{mm}$ AGS rolls)

Drive Requirements: Self-contained

Power Requirements: 220 volt, 3 phase, 60 hertz standard. The tool can also be supplied in various voltages, contact Victaulic for details.

Weight: 735 lbs./333 kg

Optional Rolls: Optional rolls are available for Schedule 10S stainless steel pipe, PVC and aluminum pipe, and type K, L, M and DWV copper tubing.

AGS roll sets for $14 - 16"/350 - 400\,\mathrm{mm}$ Schedule 10 through .500"/12.7 mm wall carbon steel pipe are now standard.

Tools sold prior to October, 2005, are equipped with the original groove rolls that cannot be used to groove AGS profile. AGS roll sets can be ordered separately. Contact Victaulic for pricing and availability.

For $14-16^{\circ}/350-400\,\text{mm}$ product applications requiring the original groove roll sets, please contact Victaulic for ordering information.

VE414MC TOOL CAPACITIES

12-11-1110	OOL CAI ACII												
							IZE/SCH nches/m						
Tool Model	Pipe Material	2 50	2½ 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	
	Steel										Std. Wall Original Groove Only		
	Std. Wall Stainless												
	Lt. Wall SS		5S – 10S RX Rolls									VX-AGS	
VE414MC	AGS Lt: Wall SS										10S RW	'X Rolls #	
	Aluminum †*				5 – 40	RP Rolls				5 – Std. Wall *			
	PVC Plastic *			40 – 80	RP Rolls			40 *					
	Copper		K,	L, M, &	DWV Co	pper Ro	lls						

^{*} Use RP Rolls.

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[#] Special RWX rolls for grooving true sch. 10 (0.250 – 6.4 mm) are available.

Pipe Preparation Tool Specifications

Plant/Shop Fabrication



VE436MC

VF436MC

- Fully automated shop tool for roll grooving carbon steel pipe and other alloys (see chart below)
- The fully-motorized, semi-automatic, electro-hydraulic tool comes complete with safety guards and safety foot switch
- Patented enhanced tracking rolls help to keep the pipe on the tool during the grooving process
- Roll grooves 4 36"/100 900 mm pipe (26 36/650 950 mm roll kit optional)

Power Requirements: 220/440 volt, 3 phase, 60 hertz (shipped wired for 220 volt unless otherwise specified). Contact Victaulic for details.

Weight: 1500 lbs./680 kg

Optional Rolls: Optional rolls are available for Schedule 5S and 10S stainless steel pipe, PVC and aluminum pipe, and type K, L, M and DWV copper tubing.

AGS roll sets for 14 - 16"/ $350 - 400\,\mathrm{mm}$ Schedule 10 through .500"/ $12.7\,\mathrm{mm}$ wall carbon steel pipe are now standard.

Tools sold prior to October, 2005, are equipped with the original groove rolls that cannot be used to groove AGS profile. AGS roll sets can be ordered separately. Contact Victaulic for pricing and availability.

For $14 - 24"/350 - 600\,\mathrm{mm}$ product applications requiring the original groove roll sets, please contact Victaulic for ordering information.

VE436MC TOOL CAPACITIES

Pipe Material		PIPE SIZE/SCHEDULE inches/mm															
VE436MC	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600	26 650	28 700	30 750	32 800	36 850
Steel@			5 –	40			Sch. 5 – Std. – Extra Strong (0.50						00 inch) Original Groove Only				
Steelle		Sch. 10 & Std. Wall RW-AGS															
Stainless	40S Std. Rolls						Std. Wall, Std. Rolls										
Stainless									RW-	AGS							
Lt. Wall SS		5S	– 10S	RX Ro	olls		5S/10S/10 RX Rolls										
AGS Lt. Wall SS							5S – 10S RWX Rolls #										
Aluminum *†		5 – 40 RP Rolls															
PVC Plastic*	4	10 – 8	0	40													

[@] Extra strong rolls (RS) available for use with extra strong pipe. Contact Victaulic for details.

^{*} Use RP Rolls

^{† 6061-}T4 or 6063-T4 must be used. RP Rolls must be used.

[#] Special RWX rolls for grooving true sch. 10 (0.250 - 6.4 mm) are available.

Pipe Preparation Tool Specifications

Cut Grooving Tools Field Manual



VG28GD VIC-ADJUSTABLE™

• Designed for cut grooving various pipe materials.

· A modified version (MRL) is available to groove and machine for rubber lining

• Cut grooves 2-8"/50 - 200 mm pipe

Drive Requirements: External drive, minimum 1½hp

Drive Speed: 38 rpm max.

Shipped Set For: Standard groove $4 - 6^{\circ}/100 - 150 \,\mathrm{mm}$ steel pipe. Contact Victaulic for

ductile iron, MRL, and double groove requirements.

Weight: 37 lbs./17 kg
VG28GD TOOL CAPACITIES

			PIPE SIZE/SCHEDULE inches/mm									
Tool Model	Pipe Material	2 50	2½ 65	3 80	3½ 90	4 100	5 125	6 150	8 200			
	Steel		40 – 80 *									
VG28GD	Stainless		40 – 80 *									
Adjustable Groover	Aluminum				40 –	80 *						
	Ductile Iron					Class 53						

^{* 6&}quot;/150 mm Schedule 8



VG824 VIC-ADJUSTABLE™

- Designed for cut grooving various pipe materials
- The tool must be driven through its own integral gear box by an external power source at a maximum speed of 38 rpm
- Ideal for job site, fab shop or production cut grooving
- Cut grooves 8 24"/200 600 mm pipe **Drive Requirements:** External drive, min. 1 ½ hp

Drive Speed: 38 rpm max.

Shipped Set For: Standard groove, 8 – 12"/200 – 300 mm steel pipe

Weight: 82 lbs./37.2 kg

Options: Contact Victaulic for ductile iron, MRL, and double groove requirements.

VG824 TOOL CAPACITIES

			PIPE SIZE/SCHEDULE inches/mm										
Tool Model	Pipe Material	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600			
	Steel		40 -	- 80			30) – Std. Wa	all				
VG824	Stainless		3	0 – Std. Wa	all								
Adjustable Groover	Aluminum	30) – Std. W	all									
	Ductile Iron					Class 53							

Pipe Preparation Tool Specifications



VG828 AGS CUT GROOVING TOOL

• Designed for cut grooving .500"/12.7mm or heavier carbon steel pipe from 14"/350 mm – 24"/600 mm

• The tool must be driven through its own integral gear box by an external power source at a maximum speed of 38 rpm

Ideal for job site cut grooving

Designed for AGS systems only

Drive Requirements: External drive, min. 1 1/2 hp

Drive Speed: 38 rpm max.

Shipped Set For: 14 - 24"/355 - 609 mm AGS cut grooves only

Weight: 125 lbs./56.7 kg VG828 TOOL CAPACITIES

			PI	PE SIZE/SCHEI inches/mm	DULE	
Tool Model	Pipe Material	14 350	16 400	18 450	20 500	24 600
VG828 Adjustable Cut Groover	Steel		.500"/1	2.7mm – .75",	/19.05mm	

Field Motorized



VG1

VG1 VIC-GROOVER

- Designed for manual or power cut grooving of a single size on steel, ductile, stainless steel, aluminum and PVC pipe
- Tools are supplied with a ratchet handle for manual operation
- Tools 2"/50 mm and larger are supplied with a power yoke
- Cut grooves $\frac{3}{4} \frac{8}{20} 200 \,\text{mm}$ pipe

Drive Requirements: Manual or external drive, min. ½ hp./0.37 kw

Drive Speed: 40 rpm max.

Shipped Set For: Standard groove, IPS of size indicated or Ridgid/flexible for ductile/

cast pipe

Weight: 28 lbs./13 kg

VIC-GROOVER TOOL CAPACITIES

			PIPE SIZE/SCHEDULE inches/mm										
Tool Model	Pipe Material	³ ⁄ ₄ 20	1 25	1 ½ 32	1½ 40	2 50	2 ½ 65	3 80	3 ½ 90	4 100	5 125	6 150	8 200
	Steel		40 – 80										
Vic-Groover	Stainless		40 – 80										
Individual	Aluminum		40 – 80										
	PVC	40 – 80											
	Steel										40 – 80		
Vic-Groover Adjustable	Stainless										40 – 80		
riajastable	Aluminum										40 – 80		
Vic-Groover	Ductile Iron	Class 53 Class 53											

Pipe Preparation Tool Specifications



VG412

VG412 ORBITAL MACHINING TOOL

- Complete modular pipe end preparation system providing quick, accurate cutting and grooving of ductile iron pipe to meet AWWA and other industry specifications for mechanical couplings
- External mounting and drive action is particularly suited to cement lined ductile iron pipe grooving
- The hinged frame design allows cutting at any point along the pipeline
- Blade setting and replacement is fast and easy
- Cut grooves 4 12"/100 300 mm pipe
- · Safety foot switch

Drive Requirements: 120 volt/11.5 amp

Shipped Set For: Ridgid Radius Groove, 4 – 12"/100 – 300 mm ductile iron pipe

Weight: 151 lbs./69 kg

Options: 4 – 12"/100 – 300 mm IPS steel kit; flexible groove profile components

VG412 TOOL CAPACITIES

		PIPE SIZE/SCHEDULE inches/mm										
Tool Model	Pipe Material	4 100	4½ 120	5 125	6 150	8 200	10 250	12 300				
VG412	Steel		40 – 80									
Adjustable Groover	Ductile Iron	Class 53										

Plastic Groovers



VPG26



VPG824

VPG26 AND VPG824

- PVC plastic pipe requires a radius groove to reduce any point of stress concentration in this notch sensitive material
- Tools feature a high speed, router-type tool bit which cuts a radiused groove, to full depth, in one manual rotation of the tool around the pipe

VPG26

• Grooves 2 - 6"/50 - 150 mm pipe

Power Requirements: 110 volt, 1 phase, 60 Hz, 7 amps

Rotation Drive: Manual (clockwise)

Weight: 41 lbs./19 kg

Shipped Set For: VPG26 for 2 – 3½"/50 – 90 mm

VPG824

• Grooves $8 - 16"/200 - 400 \, mm$ pipe

Power Requirements: 110 volt, 1 phase, 60 Hz, 7 amps

Rotation Drive: Manual (Clockwise)

Weight: 47 lbs./21 kg

Shipped Set For: VPG824 for 8 – 12"/200 – 300 mm

Pipe Preparation Tool Specifications

Hole Cutting Tools



HCT908

- One-piece hole cutting tool designed to cut holes up to 4½/120 mm in carbon and stainless steel pipe
- Allows for use of Mechanical-T, Vic-Let, and Vic-O-Well outlets

Capacity: $1-4\frac{1}{2}/25-120$ mm holes for $\frac{1}{2}-4^{\circ}/15-100$ mm Mechanical-T, and Vic-Let connections

Power Requirements: 110 volt, 1 phase, 60 Hz, 7.0 amp

Weight: 23 lbs./10 kg



VHCT900

- Three-piece hole cutting tool designed to cut holes up to 3½"/90 mm in diameter for Mechanical-T, Vic-Let, and Vic-O-Well outlets
- Base unit clamps quickly onto the pipe in vertical, horizontal or overhead positions
- Heavy-duty drill mounts to the alignment guides and a manual feed assembly provides uniform pressure on the saw for maximum cutting efficiency

Capacity: $1-3\,\frac{1}{2}/25-90\,\mathrm{mm}$ holes for $\frac{1}{2}-3^{\circ}\!/15-80\,\mathrm{mm}$ Mechanical-T, Vic-Let connections

Power Requirements: grounded 120 volt, 1 phase, 60 Hz, 10 amp electrical supply. (220 volt, 1 phase, 60 Hz, 5 amp available on request)

Weight: 36 lbs./16 kg

Accessories: Extended chain for $10 - 24^{\circ}/250 - 600 \,\mathrm{mm}$ pipe



VIC-TAP II

VIC-TAP II

 Hole cutting tool designed for use with Style 931 Vic-Tap II Mechanical-T unit for tapping into steel pipe systems under pressures up to 500 psi/3450 kPa

Capacity: Vic-Tap II $4-8"/100-200\,\text{mm}$ Run $\times~2\,\frac{1}{2}"/65\,\text{mm}$ (IPS) Outlet

Power Requirements: 115 volt, 1 phase, 60 Hz, 7.5 amp

Weight:

- (A) Drill guide base 15 lbs./6.8 kg
- (B) Drill motor and feed assembly, total wgt. 16 lbs./7.3 kg
- (C) Style 931/Valve unit, $12 \, \text{lb.} / 5.4 \, \text{kg} 15 \, \text{lb.} / 6.8 \, \text{kg}$, depending upon size (4, 5, 6 and 8"/100, 125, 150 200 mm available)

Hole Size: 23/8"/60.5 mm

24.01 PIPE PREPARATION TOOLS

Pipe Preparation Tool Specifications

Pressfit Tools



(UL) (ULC) <FM>

- The Pressfit System requires a Pressfit tool designed for securing Pressfit products onto pipe
- Jaws are available separately for rental (with rental tool) or purchase
- · Pressfit tool is designed for industrial and trade use only

Capacity: $\frac{1}{2} - \frac{2^{n}}{15} - 50 \,\text{mm}$ IPS Schedule 5 steel and stainless steel pipe

Power Requirements: 110 volt, 60 cycle, 6.5 amp

Accessories: Pressing jaws in ½"/15 mm, ¾"/20 mm, 1"/25 mm, 1½"/40 mm and

2"/50 mm sizes

Note: PFT505 and PFT509 components are not interchangeable



PFT509

PFT509

- The Pressfit System requires a Pressfit tool designed for securing Pressfit products onto pipe
- Tool packages include the actual pressing tool, two (2) batteries and a charger, carrying case, and ½, ¾, 1, and 1½" press jaws
- Jaws are available separately for purchase
- · Pressfit tool is designed for industrial and trade use only
- Pressfit tool is battery powered and requires a 12V battery charger

Capacity: $\frac{1}{2} - 1$ " and $\frac{1}{2}$ "/15 - 25 mm and 40 mm IPS Schedule 5 steel and stainless steel pipe

Power Requirements: 110 volt/60 cycle/6.5 amp

Note: PFT505 and PFT509 components are not interchangeable

Pipe Preparation Tool Specifications

Pipe Cutting Tools



VCT1 MANUAL

 Lightweight and portable pipe cut-off tool handles 4 – 24"/100 – 600 mm pipe, up to 0.500/12.7 mm thick

 Worm gear drive crank handle provides smooth, manual travel, easy control and accurate cutting

Capacity: $4 - 24"/100 - 600 \, mm$

Wall Thickness: 0.065 - 0.500"/ $1.65 - 12.7 \, \text{mm}$ (with tips supplied)

Tips: Acetylene – 1 ea. #00, #0, #1

Weight: 22 lbs./10 kg



VCT2

VCT2 AUTOMATIC

• Rotation is powered by a small 120 VAC motor with SCR remote control

• Unique distributor design has stainless steel insert which extends tip life, eases cleaning and reduces backfire

Capacity: 6 – 24"/150 – 600 mm

Wall Thickness: 0.065 - 0.500"/1.65 - 12.7 mm (with tips supplied)

Tips: Acetylene – 1 ea. #00, #0, #1

Speed Control: SCR

Power Required: 120 volt, 1 phase, 60 Hz, 15 amp

Motor Rating: 15W 10,000 rpm

Weight: 33 lbs./15 kg

Accessories: Guide rail is sold separately. Recommended for pipe 12"/300 mm and above.

Order Guide Rail D-600 for up to 24"/600 mm pipe (others available).

Pipe Preparation Tool Specifications

Accessories

Power Drive





VPD752

- Can be used as the power drive unit for the VE226, VE26, VE46, VE416FS and VE272SFS roll grooving tools, provided the tool is equipped with the correct base plate and the VG1, VG28GD, and VG824 cut grooving tools with universal drive shaft
- · Operated with a safety foot switch

Capacity: See appropriate tool

Power Requirements: 115 volts, 15 amp, 50/60 Hz (220 volt, 6 amp, 50/60 cycle optional)

Weight: 140 lbs./634 kg **Optional:** Universal drive shaft

Power Mule



MULE II

- Ideal drive for Victaulic individual Vic-Groover tools, VG28GD and VG824
- Heavy-duty, two-wheeled unit drives Victaulic cut grooving tools at the speed and power necessary for accurate grooving
- Rotating head for horizontal and vertical applications
- Power Mule is equipped with a Forward-Off-Reverse control and integral foot switch

Capacity: Victaulic individual Vic-Groover tools, VG28GD, VG26GD/MRL, VG824, VG824/

MRL

Power Requirements: 115 volts, 15 amp 50/60 cycle

Full Load Speed: 35 rpm **Weight:** 190 lbs./86 kg

Adjustable Pipe Stand



VAPS112

- Designed for supporting pipe to be roll grooved
- · Four adjustable legged portable self-standing unit
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand
- Unique trough design allows for rotational and forward/traverse movement

Capacity: $\frac{3}{4} - \frac{12}{20} - \frac{300}{12}$ mm IPS pipe

Load Rating: 1075 lbs./490 kg

Vertical Stroke: 14 ½"/368 mm for adjusting rod, 8 ½"/216 mm leg adjustment, 23"/584 mm

Minimum Pipe Height from Floor: 23"/584 mm on 12"/300 mm pipe 21"/533 mm on 1"/25 mm pipe

Weight: 190 lbs./86 kg

Handle Effort Required to Raise 1075 lbs./490 kg Load: 50 lbs./23 kg maximum



Pipe Preparation Tool Specifications

Adjustable Pipe Stand VAPS224



VAPS224

- Designed specifically for supporting pipe to be roll grooved
- Self-standing heavy-duty unit permits free pipe rotation and traversing on ball transfers
- Ball transfers are mounted in a manner permitting use of pipe slings
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand

Capacity: 2 – 24"/50 – 600 mm IPS pipe

Load Rating: 1800 lbs./816 kg Vertical Stroke: 23"/584 mm

Minimum Pipe Height from Floor: 13"/325 mm on 24"/600 mm IPS pipe Maximum Pipe Height from Floor: 38"/965 mm on 2"/50 mm IPS pipe

Weight: 260 lbs./118 kg

Handle Effort Required to Raise 1800 lbs./817 kg Load: 50 lbs./23 kg maximum

Pipe Diameter Tape



PT100A

- AGS/Go-No-Go pocket-sized steel tapes are available for taking circumferential measurements.
- Tape contains Go/No-Go markings on one side for use with ¾ 24"/20 600 mm pipe in ANSI B36.19 and many ISO-4200 sizes and is marked in 1/100th of an inch increments on the other side.
- The Go/No-Go side can be used to check cut or roll grooved pipe conformance to Victaulic original and Machined for Rubber Lining (MRL) (¾ – 12"/20 – 300 mm) and Advanced Groove System (AGS) (14 – 24"/350 – 600 mm) groove diameter specifications.
- Tapes are notched on the lead end to allow proper overlap within the groove for more accurate measurement.
- The Go/No-Go side of the tape is not intended for use on sizes 76.1; 139.7; 165.1; 165.2; 216.3; 267.4; and 318.5 mm steel or stainless steel pipe sizes. For cast or ductile iron pipe sizes (up to 20"/500 mm), copper tube sizes, and the steel and stainless steel pipe sizes listed above, use the side of the tape marked in 0.01" increments.
- The Go/No-Go pipe tape is a quick reference guide only. To ensure proper grooving dimensions, always refer to the I-100 Victaulic Field Installation Handbook or to the latest groove specifications publications located on www.victaulic.com.
- · Metric versions also available.

Pipe Preparation Tool Specifications

Grooving Times

Time for pipe preparation obviously depends on widely varied factors including productivity, location, type, hardness, and wall thickness of pipe. As a gauge for typical grooving times, the following chart was prepared to include grooving time with pipe in position and tool properly set for the size and depth of groove. Times will be extended when going from one size to another for roll changes, depth stop setting, trial grooving and other minor adjustments incidental to changing pipe sizes or initial set-up time prior to the first production groove.

APPROXIMATE GROOVING TIME IN MINUTES - STEEL PIPE*

Nominal Size				Cut Groovers							
								Vic-G	roover	Vic-Adjı	ustable
Inches	VE226	VE272SFS	VE270FSD	VE268	VE416FSD	VE414MC	VE436MC	Power	Hand	VG28GD	VG824 Power
3/4	0.5 #	_	0.2	0.2	_	_	_	0.5	1.5	_	_
1	0.6 #	_	0.2	0.2	_	_	_	0.5	1.5	_	_
1 1/4	0.7 #@	_	0.2	0.2	_	_	_	0.7	2.0	_	_
11/2	0.8 #@	_	0.2	0.2	_	_	_	0.7	2.5	_	_
2	1.0 @≠	0.3	0.3	0.3	0.3	0.2	_	1.0	3.0	1.0	_
2 1/2	1.3 @≠	0.3	0.3	0.3	0.3	0.2	_	1.2	3.8	1.3	_
3	1.4 @≠	0.4	0.4	0.4	0.4	0.2	_	1.4	4.5	1.5	_
3 1/2	1.4 @≠	0.4	0.4	0.4	0.4	0.2	_	1.7	5.5	2.0	_
4	1.5 @≠	0.5	0.4	0.5	0.5	0.2	0.2	1.9	7.0	2.5	_
4 1/2	1.5 @≠	0.8	0.6	0.6	0.6	0.2	0.2	2.3	8.0	2.8	_
5	1.6 @≠	1.0	0.8	0.8	0.8	0.2	0.3	2.5	9.0	3.5	_
6	1.8 @≠	1.5	1.2	0.8	1.0	0.3	0.5	3.0	10.0	4.5	_
8	_	1.7	1.5	0.9	1.7	0.4	0.8	4.0	15.0	5.0	5.0
10	_	2.0	1.8	1.5	2.5	0.6	1.1	_	_	_	8.0
12	_	2.5	2.3	1.8	3.5	0.7	1.4	_	_	_	10.0
14	_	_	_	_	7.4 †	3.6 †	3.6 †	_	_	_	12.0
16	_	_	_	_	8.0 †	4.0 †	4.0 †	_	_	_	16.0
18	_	_	_	_	_	_	4.6 †	_	_	_	20.0
20	_	_	_	_	_	_	5.0 †	_	_	_	23.0
22	_	_	_	_	_	_	2.8	_	_	_	27.0
24	_	_	_		_	_	6.0 †	_	_	_	30.0
30	_	_	_	_	_	_	3.8	_	_	_	_
36	_	_	_		_	_	4.5	_	_	_	_

[#] VE226B @ VE226S ≠ VE226M

^{*} For roll groovers the times apply to the thickest pipe wall for which the tool is rated. See tool capacities. For cut groovers, the times apply to standard wall steel pipe. For other materials and thicknesses contact Victaulic for details.

[†] For AGS roll grooves

Pipe Preparation Tool Specifications

Standard Pipe Wall Thickness

(ANSI B 36.10 & B 36.19 for Stainless Steel Pipe)

Si	ze			Pipe Sch	nedule/Wall	Thickness -	- Inches/mi	llimeters		
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	5S	5	108	10	20	30	40	STD.	80
³ / ₄ 20	1.050 26.9	0.065 1.65	0.065 1.65	0.083 2.11	_	_	_	0.113 2.87	0.113 2.87	0.154 3.91
1 25	1.315 33.7	0.065 1.65	0.065 1.65	0.109 2.77	_	_	_	0.133 3.38	0.133 3.38	0.179 4.55
1 ¼ 32	1.660 42.4	0.065 1.65	0.065 1.65	0.109 2.77	_	_	_	0.140 3.56	0.140 3.56	0.191 4.85
1 ½ 40	1.900 48.3	0.065 1.65	0.065 1.65	0.109 2.77	_	_	_	0.145 3.68	0.145 3.68	0.200 5.08
2 50	2.375 60.3	0.065 1.65	0.065 1.65	0.109 2.77	_	_	_	0.154 3.91	0.154 3.91	0.218 5.54
2½ 65	2.875 73.0	0.083 2.11	0.083 2.11	0.120 3.05	_	_	_	0.203 5.16	0.203 5.16	0.276 7.01
3 80	3.500 88.9	0.083 2.11	0.083 2.11	0.120 3.05	_	_	_	0.216 5.49	0.216 5.49	0.300 7.62
3½ 90	4.000 101.6	0.083 2.11	0.083 2.11	0.120 3.05	_	_	_	0.226 5.74	0.226 5.74	0.318 8.08
4 100	4.500 114.3	0.083 2.11	0.083 2.11	0.120 3.05	_	_	_	0.237 6.02	0.237 6.02	0.337 8.56
5 125	5.563 141.3	0.109 2.77	0.109 2.77	0.134 3.40	_	_	_	0.258 6.55	0.258 6.55	0.375 9.53
6 150	6.625 168.3	0.109 2.77	0.109 2.77	0.134 3.40	_	_	_	0.280 7.11	0.280 7.11	0.432 10.97
8 200	8.625 219.1	0.109 2.77	0.109 2.77	0.148 3.76	_	0.250 6.35	0.277 7.04	0.322 8.18	0.322 8.18	0.500 12.70
10 250	10.750 273.0	0.134 3.40	0.134 3.40	0.165 4.19	_	0.250 6.35	0.307 7.80	0.365 9.27	0.365 9.27	0.594 15.09
12 300	12.750 323.8	0.156 3.96	0.156 3.96	0.180 4.57	_	0.250 6.35	0.330 8.38	0.406 10.31	0.375 9.53	0.688 17.48
14 350	14.000 355.6	0.156 3.96	_	0.188 4.78	0.250 6.35	0.312 7.92	0.375 9.53	0.438 11.13	0.375 9.53	0.750 19.05
16 400	16.000 406.4	0.165 4.19	_	0.188 4.78	0.250 6.35	0.312 7.92	0.375 9.53	0.500 12.70	0.375 9.53	0.844 21.44
18 450	18.000 457.0	0.165 4.19	_	0.188 4.78	0.250 6.35	0.312 7.92	0.438 11.13	0.562 14.27	0.375 9.53	0.938 23.83
20 500	20.000 508.0	0.188 4.78	_	0.218 5.54	0.250 6.35	0.375 9.53	0.500 12.70	0.594 15.09	0.375 9.53	1.031 26.19
24 600	24.000 610.0	0.218 5.54	_	0.250 6.35	0.250 6.35	0.375 9.53	0.562 14.27	0.688 17.48	0.375 9.53	1.219 30.96
26 650	26.000 660.4	_	_	_	0.312 7.92	0.500 12.70	_	_	0.375 9.53	_
28 700	28.000 711.0	_	_	_	0.312 7.92	0.500 12.70	0.625 15.88	_	0.375 9.53	_
30 750	30.000 762.0	0.250 6.35	_	0.312 7.92	0.312 7.92	0.500 12.70	0.625 15.88	_	0.375 9.53	_
32 800	32.000 813.0	_	_	_	0.312 7.92	0.500 12.70	0.625 15.88	0.688 17.48	0.375 9.53	_
36 900	36.000 914.0	_	_	_	0.312 7.92	0.500 12.70	0.625 15.88	0.750 19.05	0.375 9.53	_
42 1050	42.000 1067.0	_	_	_	_	_	_	_	0.375 9.53	_

24.01 PIPE PREPARATION TOOLS

Pipe Preparation Tool Specifications



