

1/2"-2" Mazco Valve Changer



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Operating Instructions

Pressure Rating: 100 PSIG



***Safely replace 1/2" to 2" standard meter valves
and PE-inserted risers gas-free.***

Updated 05/17/2026

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1/2"-2" Gas-Free Valve Changer

Introduction

The Valve Changer is for the safe, gas-free removal and replacement of most defective 1/2" to 2" rectangular port or ball valves on a steel Schedule 40 / 80 riser and PE-inserted risers with service head adapters and Anodeless Risers with bore openings between 0.250" -0.500" operating at a maximum of 100 psig under live gas conditions. These Operating Instructions should always be with you so you may refer to them when using this equipment.

Limitations:

The operator is responsible for judging the condition of the valve and riser assembly before attempting the operation. Using the tool outside its capabilities or on a corroded fitting is not recommended and may result in serious injury.

Safety Statements:

READ THE OPERATING INSTRUCTIONS: Reading the setup and operating instructions before the procedure will save valuable time and help prevent operator injury or equipment damage.

INSPECT TOOL & ACCESSORIES: Before setup, physically inspect the tool and its accessories. Look for worn parts, loose bolts or nuts, damaged O-rings, etc. A properly maintained tool will significantly decrease the chance of injury.

SECURE LOOSE CLOTHING, LONG HAIR & JEWELRY: These items could get caught in the rotating parts. Removing or securing them will reduce the chance of injury.

KEEP WORK AREA CLEAR: Keep the work area free of clutter and nonessential materials. Only those personnel directly associated with the work should have access to the site.

ALWAYS WEAR PROTECTIVE EQUIPMENT: Impact-resistant eye protection and any company-approved personal protective equipment must be worn while operating or working near this tool.

ALWAYS FOLLOW YOUR COMPANY PROCEDURES: **Gas company procedures override anything presented in this document.**

1/2"-2" Gas-Free Valve Changer

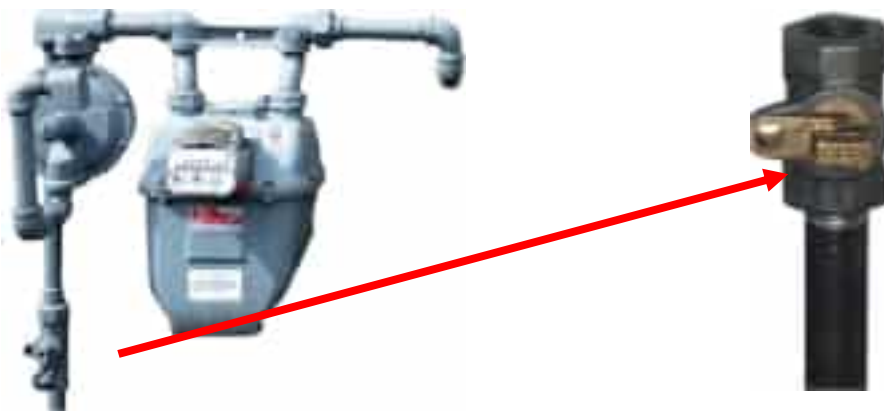
Operation and Set-up

1. Select the correct Valve Changer Stopping Unit according to the size and style of the meter valve to be removed (Photo 1). Kits are purchased in accordance with company requirements.



(Photo 1)

2. According to your company procedures, close the meter valve and purge the gas from the meter piping assembly.
3. Uncover a minimum of 8"(20cm) of the risers below the meter valve. If necessary, this area fastens the Safety Clamp to the riser pipe.
4. Remove all fittings from the outlet end of the meter valve. (Photo 2.)



(Photo 2)

5. **IMPORTANT:** Lightly lubricate the Valve Changer shaft with a small amount of the supplied lubricant. Exercise the shaft up and down through the Stuffing Box a few times to ensure proper operation. Inspect the Stuffing Box internal O-rings, threads, and bleed valve for any damage. Replace damaged parts before use.
Before use, always ensure the valve changer rubber is in the neutral position, meaning it is fully relaxed and there is no gap between the tube and the top end plate.

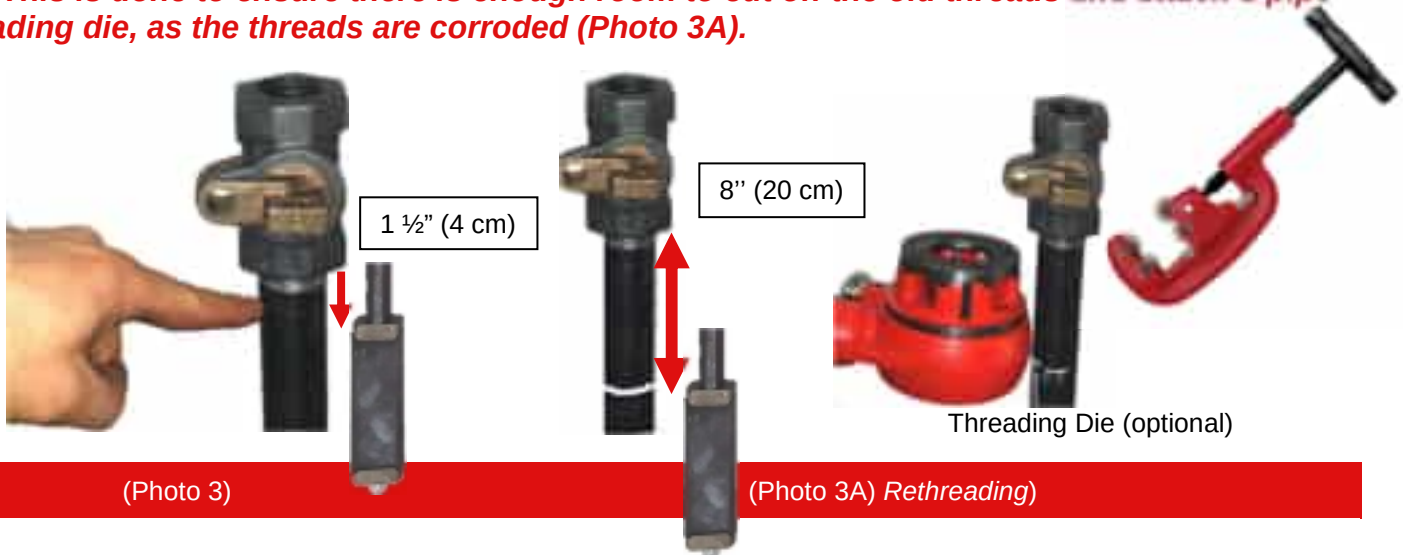


1/2"-2" Gas-Free Valve Changer

Measure ~1 1/2" (4 cm) below the meter valve and mark the pipe. This will be the location to fit the bottom Safety Clamp (Photo 3).

Notes on Rethreading Die Placement

7. SKIP THIS STEP IF NOT RETHREADING THE RISER PIPE: Measure ~8"(20 cm) below the meter valve and mark the pipe. The Safety Clamp's jaws are to be fastened just below this line. This is done to ensure there is enough room to cut off the old threads and attach a pipe threading die, as the threads are corroded (Photo 3A).



8. Assemble and fasten the Safety Clamp below the meter valve at the desired stopper placement location (Photo 3-4). Completely loosen the hand crank (Step 1) and position this jaw against the riser (*usually against the right side*). Push and slide the movable clamp arm against the riser. Tighten the hand crank to grip the riser securely (Step 2). Tighten each Clamp Thumb Knob to secure the clamp assembly to the Clamp's Support Shaft (Step 3).



(Photo 4)



If using the single clamp install cable, pass the opposite end of the loop through the hole in the clamp, then slightly tighten the wing screw. This will be adjusted in later steps. Tighten the clamp in the same manner as in step 8.

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9. *OPTIONAL:* A sight glass is available to check that there are no obstructions through the meter valve port to prevent stopper passage. (Photo 5).



Sight Glass

(Photo 5)

10. Measure the desired depth of the Rubber Stopper. Place the threaded section of the Stuffing Box on top of the lip edge of the meter valve. Push down on the shaft to achieve the desired depth by lining up the metallic top edge of the Rubber Stopper's Top End Plate with the reference line (Photo 6). Slide the Depth Collar to the top of the Stuffing Box and tighten the thumbscrew (Photo 7).

Line up top of stopper to ensure to stopper is below the fitting.

Neutral Position

Mark depth with collar, tighten thumbscrew.



(Photo 6)

(Photo 6-A)

(Photo 7)

(Photo 8)

(Photo 8-CABLE)

11. Ensure the Valve Changer is in neutral position, which means the rubber is fully relaxed and there is no gap between the tube and the top end plate (Photo 6-A)
12. Fully retract the Rubber Stopper into the Stuffing Box. Fasten the top clamp (Photo 8)
13. Tighten the Stuffing Box onto the meter valve using an adjustable wrench (Photo 9). **Do not use a pipe wrench, as this will damage the flats on the Stuffing Box.**

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14. Place the closed end of the combination wrench onto the hex at the top. Ensure the slot at the top of the shaft lines up with the valve handle. This indicates the direction of the rectangular Rubber Stopper as it pushes through the port (Photo 10). Install the nut driver on the inner pull rod.
15. Open the meter valve, push down on the nut driver and turn the shaft if necessary, until the Rubber Stopper travels through the valve port down to the Depth Collar into the riser pipe or stiffener (if PE)

Notes on O-Ring Only Stopping Units and Cylinder Stoppers

NOTE STEP #12-A: O-Ring Only Stoppers

12-A. When using the "O-Ring Only Stoppers," push down on the shaft through the bore of the service head adapter to stop the gas flow. Hold it in place and secure it with the 3-Point Clamp.



0.280" OD short, stepped end with 3 Orings

PSVC280PE



0.300" OD short, stepped end with 3 Orings

PSVC300PE

NOTE STEP #12-B: Small Cylinder Stopper



.335" OD Rubber Cylinder End

FBC 335

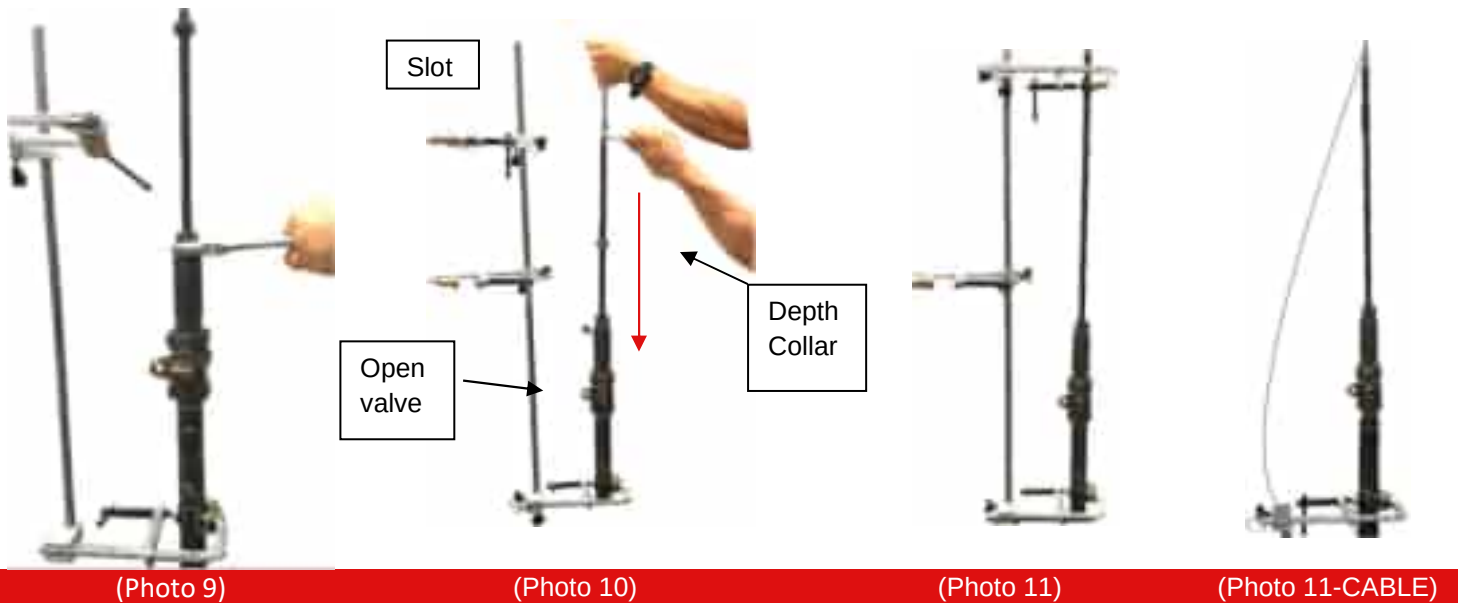
12-B. Use a standard 3/4" Female x Female Coupling and a 4" Pipe nipple as an extension to retract the stopper above the meter valve.



Note: PSVC300PE, PSVC250PE, FBC 335 uses a standard 1/2" - 3/4" Stuffing Box #PSVC750H

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16. Keep one hand on the nut driver to prevent the gas pressure from pushing the shaft upwards.



17. Expand the rubber by turning the wrench clockwise and counting the number of turns while holding the nut driver in place to prevent the rubber from turning inside the pipe (Photo 10). According to Table 1, resistance should be felt once the number of turns is reached.

PART#	Table 1.		Sch. 40	Sch. 80
	STOPPING UNIT & PIPE SIZE		Pipe # of turns	Pipe # of turns
PSVC 500	1/2" Valve Changer		13	N/A
PSVC 750	3/4" Valve Changer		20	15
PSVC 1000	1" Valve Changer		20	N/A
PSVC 1250	1 1/4" Valve Changer		19	N/A
PSVC 1500	1 1/2" Valve Changer		19	N/A
PSVC 2000	2" Valve Changer		19	14
PSVC 1000HAYS	1" Valve Changer for Hays Valve (undersized port)		27	N/A
PSVC 500DR	3/4" X 1/2" Dresser Valve Changer		25	20
PSVC 750DR	3/4" Dresser Valve Changer		15	N/A
FBC 335	1/2" PE Wayne Riser - PFSHA		6	N/A
TSVC 580	5/8" Steel Tubing Stopper Valve Changer		6	N/A

18. Fasten top Clamp (Photo 11)

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19. Then open the bleed valve and slowly turn in 1/2 turn increments until a gas-tight seal is achieved (Photo 12)
20. Further check the seal by closing the bleed valve and waiting 1 minute. Open the bleed valve. If gas escapes, adjust another half turn. Repeat until the gas has stopped. **Do not over-tighten.**



(Photo 12)



(Photo 13)



(Photo 13-CABLE)

21. To fasten the top Clamp, slightly loosen the Thumb Knobs and place the Clamp in approximately the correct position near the top of the shaft. (Photos 14 a, b and c).
- Align the V-Notch onto the Valve Changer shaft. Then, push the sliding clamp arm against the shaft.
 - Tighten the hand crank to secure the clamp jaws to the Valve Changer shaft. **Do not over-tighten.**
 - Tighten each Thumb knob to secure the clamp assembly.

If using the single clamp, remove the nut driver while holding the shaft. Loop the cable over the end of the pull rod. Adjust the length of the cable at the clamp so the cable has enough slack to rotate the meter valve for removal without catching the valve. Tighten the wing nut. The valve changer is now safe, and you may let go of the shaft.



a.



b.
(Photo 14)



c.

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22. At times, the rubber may relax slightly. If necessary, slowly tighten the Rubber Stopper in quarter-turn increments until you stop hearing the sound of blowing gas. **Do not over-tighten**. If the gas has stopped, the meter valve may be removed now (Photo 15).

23. Remove the meter valve with the Stuffing Box attached. Loosen the depth collar, push the meter valve up the shaft, and then secure the bottom Clamp in the same fashion as in Step 15 (Photo 16a, 16b, 16-CABLE).



(Photo 15)



(Photo 16a)



(Photo 16b)



(Photo 16-CABLE)

24. Loosen the top Clamp and swing it out of the way (Photo 17)

25. Remove the Stuffing Box and old meter valve, taking care not to damage the Stuffing Box's internal O-rings when lifting it off the threaded area of the shaft (Photos 18-19). Inspect the riser threads and determine if cutting and rethreading are necessary.

Threaded area



(Photo 17)

O-rings
inside



(Photo 18)



(Photo 19)



(Photo 19-CABLE)

1/2"-2" Gas-Free Valve Changer

25-A. To remove the old valve using the Cable Clamp, loosen the valve and lift it about 6 inches. Keep one hand on the tool shaft. Slide the cable loop off the shaft, lift the old valve off, then put the cable loop back on the shaft. Be careful not to drop the depth collar. When the cable is removed, one hand must always be on the tool shaft.

Notes on Rethreading Riser

Skip steps 26-27 if not cutting the section of a riser to rethread. To cut the riser for rethreading, fasten both clamps onto the shaft (Photo 20). There may not be sufficient clearance for a standard pipe cutter to remove the riser section (Photos 21-22). Remove the cut section of the riser. Loosen and re-secure each Clamp when removing the small length of the cut riser (Photo 23).

26. Remove any sharp edges from the riser.



(Photo 20)



(Photo 21)



(Photo 22)



(Photo 23)

27. Fit a threading die over the shaft and cut new threads on the riser. Be sure to loosen and re-secure each Clamp when fitting and removing the die. (Photos 24-26). **Do not rest the die on the clamps.**



(Photo 24)



(Photo 25)

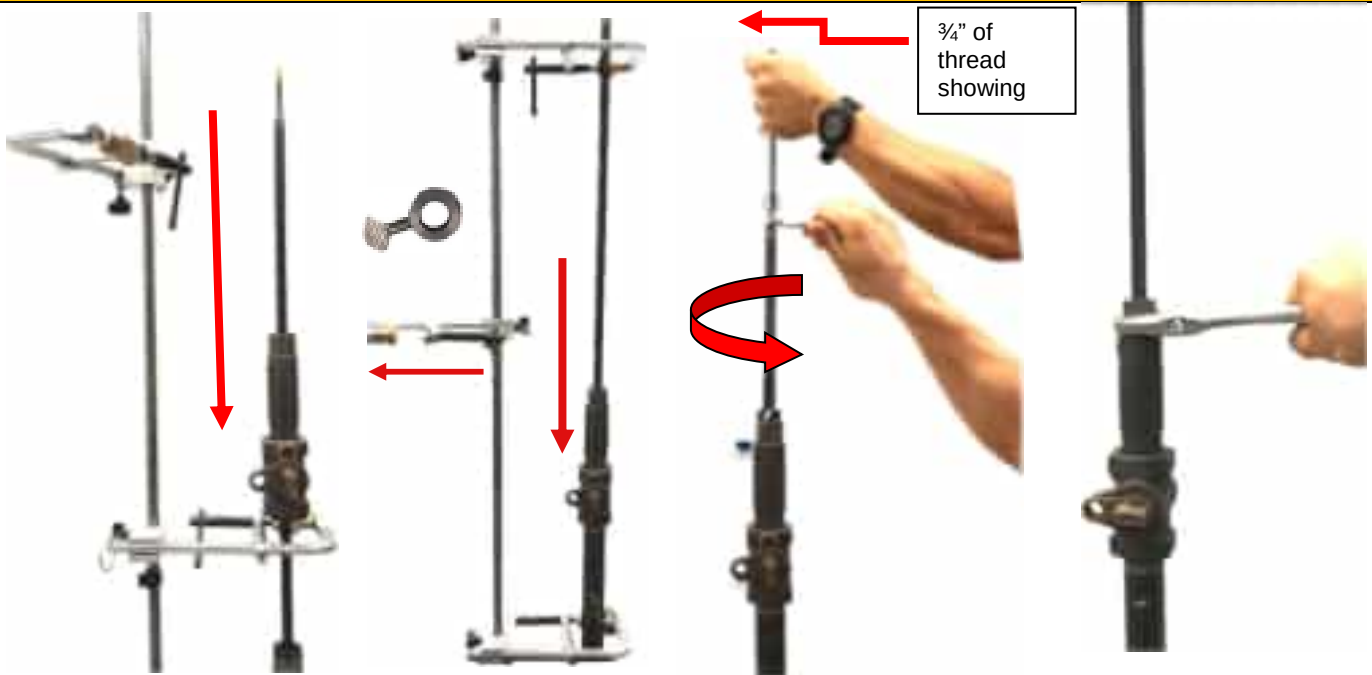


(Photo 26)

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28. Attach the new meter valve to the Stuffing Box and slide it onto the shaft. Loosen and re-secure each Clamp to travel down the shaft. Tighten the meter valve onto the riser (Photo 27).

28-A. When using the Cable Clamp, keep one hand on the tool shaft, slide the cable off, then slide the new meter valve and Stuffing Box down over the tool shaft. Always maintain a grip on the shaft when the cable is off.



(Photo 27)

(Photo 28)

(Photo 29)

TIP: It may be necessary to push down on the shaft to disengage the rubber stopper from the riser. Do not pull up right away; let the rubber relax before pulling the shaft upwards above the meter valve.

29. Once the meter valve is tight, while holding the nut driver, loosen the drive nut with the wrench until the Rubber Stopper until less than 3/4 of an inch of threads are showing at the top of the shaft, and the Rubber Stopper is fully relaxed. (Photo 28).

30. Loosen the Top Clamp and swing out of the way. Retract the Rubber Stopper into the Stuffing Box. Be sure to control the shaft with your hand. Turn the Nut Driver as necessary so the Rubber Stopper will travel through the rectangular port into the Stuffing Box.

31. Close the meter valve, bleed excess gas, and remove the Stuffing Box and Safety Clamp (Photo 29).

32. The operation is complete (Photo 30). Leak test and reconnect fittings.

(Photo 30)

TIP: It is good practice, especially on lower pressures to reattach the depth collar to prevent the shaft from accidentally falling into the riser (Photo 27-28)



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Mazco Valve Changer Rubber Replacement Instructions

1. Remove the valve changer from the stuffing box.
2. Inspect the tube, drive nut, top thread, hex, and rubber area for damage and straightness.
3. Remove the end nut by turning counterclockwise. (Fig. 1)
4. Remove the bottom end plate.
5. Remove the rubber.
6. If the top end plate was removed, when reinstalling, align the end plate with the notch on the opposite end of the rod. The end plate must be oriented lengthwise to the notch so it can pass through the valve's rectangular port during removal. (Figs. 2 & 3)
7. Inspect the end plates for damage. Replace any end plate whose rubber-contact edges are damaged.
8. Inspect the rod square for damage and straightness. Inspect the bottom thread for damage; the V-profile of the thread should match (Fig. 4).
9. If the top end plate was removed, reinstall it as shown in (Fig. 3).
10. Install the new rubber aligned with the top end plate notch. (Fig. 5)
11. Install the bottom end plate, keeping it aligned with the rubber. (Fig. 6)
12. Install the correct nut for the valve changer (see Parts List on next pages). Turn clockwise until the end of the nut is flush with the end of the rod thread (Fig. 7), or until resistance is felt. Align the nut's flat with the end plate's flat. **DO NOT OVERTIGHTEN.**
13. Tighten the drive nut to seat the rubber in the end plates. Return the valve changer to the neutral position, meaning with no gap between the tube and the upper end plate. (Fig. 7)
14. Grease the shaft and reinstall it in the housing.



Fig 1.



Fig 2.



Fig.3



Fig. 4



Fig. 5



Fig. 6



Fig 7.

1/2"-2" Gas-Free Valve Changer

Repair Parts List



1/2"-2" Gas-Free Valve Changer

PART#	STOPPING UNIT	#	PART#	REPAIR PART	QTY PER UNIT
PSVC 500	1/2" Valve Changer	1	DN 750	5/8", 1/2", 3/4" Upper Drive Nut for Valve Changer	1
		2	SLPWSHS	Bronze Spacer Ring 0.335", 1/2", 5/8", 3/4" Changer Stepped	1
		3	PSVC 750PR	3/4" Valve Changer Inner Pull Shaft	1
		4	PSVC 750T	1/2", 3/4" Valve Changer Outer Tube	1
		5	DC 375	Depth Collar .375 valve changer shaft	1
		6	OR 012***	"O" Ring Size 010	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 750H	3/4" Valve Changer Housing	1
		9	OR 006***	"O" Ring Inner Shaft for 0.335, 1/2", 3/4"	2
		10	EP 500	1/2" Steel Pipe End Plate	2
		11	NUT 832	Flex Lock Nut for 1/2", 3/4" Shafts	1
		12	PSVC 500A	1/2" .570 Sch 40 Rubber Plug	1
PSVC 750	3/4" Valve Changer	1	DN 750	5/8", 1/2", 3/4" Upper Drive Nut for Valve Changer	1
		2	SLPWSHS	Bronze Spacer Ring 0.335", 1/2", 5/8", 3/4" Changer Stepped	1
		3	PSVC 750PR	3/4" Valve Changer Inner Pull Shaft	1
		4	PSVC 750T	1/2", 3/4" Valve Changer Outer Tube	1
		5	DC 375	Depth Collar .375 valve changer shaft	1
		6	OR 012	"O" Ring Size 012	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 750H	3/4" Valve Changer Housing	1
		9	OR 006****	"O" Ring Inner Shaft for 0.335, 1/2", 3/4"	2
		10	EP 750	3/4" End Plate	2
		11	NUT 832	Flex Lock Nut for 1/2", 3/4" Shafts	1
		12	PSVC 750A	3/4" Sch 40 Rubber Plugs	1
PSVC 1000	1" Valve Changer	1	DN 1000	1" Upper Drive Nut	1
		2	SLPWSHS1000	Bronze Slip Washer Stepped 1" Valve Changer	1
		3	PSVC 1000PR	1" Valve Changer Inner Pull Shaft	1
		4	PSVC 1000T	1" Valve Changer - Outer Tube	1
		5	DC 500	1/2" Depth Collar	1
		6	OR 014	"O" Ring Size 014	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1000H	1" Valve Changer Housing	1
		9	OR 010	"O" Ring Size 010	2
		10	EP 1000	1" End Plate (each)	2
		11	NUT 1032	Flex Lock Nut for 1" Changer	1
		12	PSVC 1000A	1" Sch 40/Sch 80 Rubber Plugs	1
PSVC 1250	1 1/4" Valve Changer	1	DN 1250	1 1/4", 1 1/2", 2" Upper Drive Nut	1
		2	SLPWSHS1250	Bronze Slip Washer Stepped 1 1/4" Valve Changer	1
		3	PSVC 1250PR	1 1/4" Valve Changer Inner Pull Shaft	1
		4	PSVC 1250T	1 1/4" valve changer outer tube	1
		5	DC 687	.687 Depth Collar	1
		6	OR 016	#016 O ring	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1250H	1 1/4" Valve Changer Housing	1
		9	OR 012	"O" Ring Size 012	2
		10	EP 1250	1 1/4" End Plate (each)	2
		11	NUT 250	1/4" Nylok Retainer Nut for 1 1/4" & 2" Valve Changer	1
		12	PSVC 1250A	1 1/4" Sch 40/Sch 80 Rubber Plugs	1
PSVC 1500	1 1/2" Valve Changer	1	DN 1250	1 1/4", 1 1/2", 2" Upper Drive Nut	1
		2	SLPWSHS1250	Bronze Slip Washer Stepped 1 1/4" Valve Changer	1
		3	PSVC 1500PR	1 1/2" X Valve Changer - Inner Pull Rod	1
		4	PSVC 1250T	1 1/4" valve changer outer tube	1
		5	DC 687	.687 Depth Collar	1
		6	OR 016	#016 O ring	2

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		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1500H	1 1/2" Housing/Stuffing box	1
		9	OR 012	"O" Ring Size 012	2
		10	EP 1500	1 1/2" End Plate (each)	2
		11	NUT 375	3/8" Nylok Retainer Nut	1
		12	PSVC 1500A	1 1/2" Rubber Plugs	1
PSVC 2000	2" Valve Changer	1	DN 1250	1 1/4", 1 1/2", 2" Upper Drive Nut	1
		2	SLPWSHS1250	Bronze Slip Washer Stepped 1 1/4" Valve Changer	1
		3	PSVC 2000PR	2" Valve Changer pull rod x 2 ft	1
		4	PSVC 1250T	1 1/4" valve changer outer tube	1
		5	DC 687	.687 Depth Collar	1
		6	OR 016	#016 O ring	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 2000H	2" Housing / Stuffing Box	1
		9	OR 012	"O" Ring Size 012	2
		10	EP 2000	2" End Plate (each)	2
		11	NUT 375	3/8" Nylok Retainer Nut	1
		12	PSVC 2000A	2" Rubber Plugs	1
PSVC 1000HAYS	1" Valve Changer for Hays Valve	1	DN 750	3/4" Upper Drive Nut	1
		2	SLPWSHS	Bronze Slip Washer Stepped 3/4" Valve Changer	1
		3	PSVC 1000HAYSPR	1" Hays valve changer inner pull rod	1
		4	PSVC 750T	3/4" Valve Changer - Outer Tube	1
		5	DC 375	1/2" Depth Collar	1
		6	OR 012	"O" Ring Size 012	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1000HAYSH	1" HAYS Valve Changer Stuffing Box/Housing	1
		9	OR 006	"O" Ring Size 006	2
		10	EP 1000HAYS	1" Hays Valve Changer End Plates each	2
		11	NUT 1032	Flex Lock Nut for 1" Changer	1
		12	PSVC 1000HAYSA	1" Rubber Plug for HAYS Valve	1
PSVC 1000HW	1" Honeywell PE Riser Valve Changer	1	DN 1000	1" Upper Drive Nut	1
		2	SLPWSHS1000	Bronze Slip Washer Stepped 1" Valve Changer	1
		3	PSVC 1000PR	1" Valve Changer Inner Pull Shaft	1
		4	PSVC 1000T	1" Valve Changer - Outer Tube	1
		5	DC 500	1/2" Depth Collar	1
		6	OR 014	"O" Ring Size 014	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1000H	1" Valve Changer Housing	1
		9	OR 010	"O" Ring Size 010	2
		10	EP 1000HW	1" End Plate (each)	2
		11	NUT 1032	Flex Lock Nut for 1" Changer	1
		12	PSVC 1000HWA	1" Honeywell riser valve changer rubber, .850" X .500"	1
PSVC 1250JMR	1 1/4" Valve Changer Honeywell Riser, Jomar Valve	1	DN 1250	1 1/4", 1 1/2", 2" Upper Drive Nut	1
		2	SLPWSHS1250	Bronze Slip Washer Stepped 1 1/4" Valve Changer	1
		3	PSVC 1250PR	1 1/4" Valve Changer Inner Pull Shaft	1
		4	PSVC 1250T	1 1/4" valve changer outer tube	1
		5	DC 687	.687 Depth Collar	1
		6	OR 016	#016 O ring	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 1250H	1 1/4" Valve Changer Housing	1
		9	OR 012	"o" Ring Size 012	2
		10	EP 1250JMR	1 1/4" End Plate (each)	2
		11	NUT 250	1/4" Nylok Retainer Nut for 1 1/4" & 2" Valve Changer	1
		12	PSVC 1250JMRA	1 1/4" Jomar/HoneyWell Replacement Rubber	1
PSVC 500DR	3/4" X 1/2" Valve Changer Dresser	1	DN 750DR	Upper Drive Nut .312" Tube, 3/4" & 1/2" Dresser, LLB 625	1
		2	SLPWSHDR	Bronze slip washer, stepped for .312 tube - Dresser Valves	1
		3	PSVC 750DRPR	3/4" Dresser 175 Valve Changer Pull Rod	1

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		4	PSVC 750DRT	3/4" & 1/2" Dresser 175 Valve Changer Outer Tube .312" x 24"	1
		5	DC 312	Depth Collar .312 valve changer shaft	1
		6	OR 011	"O" Ring Size 011	2
		8	PSVC 750DRH	Housing for 3/4" and 3/4"x1/2"Dresser 175 Valve Changer	1
		9	OR 006	"O" Ring Inner Shaft for 0.335, 1/2", 3/4"	2
		10	EP 500DR	End Plate for 3/4" x 1/2" Dresser	2
		11	NUT 632	Flex Lock Nut for 5/16" Shafts	1
		12	PSVC 500DRA	3/4" X 1/2" Valve Changer Dresser 175 Rubber Plug	1
PSVC 750DR	3/4" Valve Changer Dresser	1	DN 750DR	Upper Drive Nut .312" Tube, 3/4" & 1/2" Dresser, LLB 625	1
		2	SLPWSHDR	Bronze slip washer , stepped for .312 tube - Dresser Valves	1
		3	PSVC 750DRPR	3/4" Dresser 175 Valve Changer Pull Rod	1
		4	PSVC 750DRT	3/4" & 1/2" Dresser 175 Valve Changer Outer Tube .312" x 24"	1
		5	DC 312	Depth Collar .312 valve changer shaft	1
		6	OR 010	"O" Ring Size 010	2
		8	PSVC 750DRH	Housing for 3/4" and 3/4"x1/2"Dresser 175 Valve Changer	1
		9	OR 006	"O" Ring Inner Shaft for 0.335, 1/2", 3/4"	2
		10	EP 750DR	End Plate for 3/4" x 3/4" Dresser	2
		11	NUT 632	Flex Lock Nut for 5/16" Shafts	1
		12	PSVC 750DRA	3/4" Valve Changer Dresser 175 Rubber Plug	1
FBC 335	3/4" Valve Changer 1/2" PE Wayne Riser - PFSHA	1	DN 750	5/8", 1/2", 3/4" Upper Drive Nut for Valve Changer	1
		2	SLPWSHS	Bronze Spacer Ring 0.335", 1/2", 5/8", 3/4" Changer Stepped	1
		3	FBC 335PR	.335" Changer Pull Shaft	1
		4	FBC 335T	.335" Valve Changer Tube	1
		5	DC 375	Depth Collar .375 valve changer shaft	1
		6	OR 012	"O" Ring Size 012	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 750H	3/4" Valve Changer Housing	1
		9	OR 006	"O" Ring Inner Shaft for .335, 1/2" and 3/4" Valve Changer Shaft	2
		10	EP 335	.335" Round End Plate (each)	1
		11	NUT 632	Flex Lock Nut Shaved Down for 0.335" Shaft	1
		12	FBC 335A	.335" Round Rubber Plug	1
TSVC 580	5/8" Steel Tubing Stopper Valve Changer	1	DN 750	5/8", 1/2", 3/4" Upper Drive Nut for Valve Changer	1
		2	SLPWSHS	Bronze Spacer Ring 0.335", 1/2", 5/8", 3/4" Changer Stepped	1
		3	TSVC 580PR	5/8" tubing valve changer inner pull rod	1
		4	PSVC 750T	1/2", 3/4" Valve Changer Outer Tube	1
		5	DC 375	Depth Collar .375 valve changer shaft	1
		6	OR 012	"O" Ring Size 012	2
		7	MSTS 1017250	1/4" M & F Miniature Ball Valve	1
		8	PSVC 750H	3/4" Valve Changer Housing	1
		9	OR 006	"O" Ring Inner Shaft for .335, 1/2" and 3/4" Valve Changer Shaft	2
		10	EP 580	End Plate for 5/8" Steel Tubing Changer	1
		11	NUT 832	Flex Lock Nut for 1/2", 3/4" Shafts	1
		12	TSVC 580A	5/8" Tubing Stopper Rubber Plugs	1
PSVC 280	Service Head Adapter 0.280"	1	OR 008	"O" Ring 0.300 Solid Shaft	4
		2	OR 0101	"O" Ring .300 Solid Shaft	2
PSVC 300	3/4" LYCD SHA 300" Port	1	OR 008	"O" Ring 0.300 Solid Shaft	6

1/2"-2" Gas-Free Valve Changer

Kits, Stopping Units, Clamps, and Hand Tools List

A	KIT		125200VCB	1 1/4" - 2" Valve Changer Base Kit
A	KIT		500100VCB	1/2" - 1" Valve Changer Base Kit
B	STOP UNIT		PSVC 280E	.280" solid rod, extended shank for Dresser 1/2" PE riser and Dresser 175 valve
B	STOP UNIT		FBC 335	3/4" Valve Changer 1/2" PE Wayne Riser - PFSHA
B	STOP UNIT		LLB 625	Mueller 3/4" x 5/8" Tubing Valve Changer
B	STOP UNIT		PSVC 1000	1" Valve Changer 2ft
B	STOP UNIT		PSVC 1000HAYS	1" Valve Changer for Hays valve x 2ft
B	STOP UNIT		PSVC 1000HW	1" Honeywell PE Riser Valve Changer x 2FT
B	STOP UNIT		PSVC 1000RUB	1" RUB Valve Changer x 2ft
B	STOP UNIT		PSVC 1250	1 1/4" Valve Changer 2ft
B	STOP UNIT		PSVC 1250JMR	1 1/4" Valve Changer Honeywell Riser, Jomar Valve x 2FT
B	STOP UNIT		PSVC 1250RUB	1 1/4" RUB Valve Changer x 2ft
B	STOP UNIT		PSVC 1500	1 1/2" Valve Changer 2 ft.
B	STOP UNIT		PSVC 1CTS	1" CTS Valve Changer - Perfection Service Head Adapter (SHA) .780" c/w stuffing box
B	STOP UNIT		PSVC 2000	2" Valve Changer 2 ft.
B	STOP UNIT		PSVC 280	Valve Changer for Service Head Adapter 0.280"

1/2"-2" Gas-Free Valve Changer

B	STOP UNIT		PSVC 300	3/4" Valve Changer LYCD SHA 300" Port (No Housing)
B	STOP UNIT		PSVC 500	1/2" Sch 40 Valve Changer 2ft. c/w stuffing box housing - 3/4" valve and 3/4" X 1/2" Schd 40 service pipe
B	STOP UNIT		PSVC 500DR	3/4" X 1/2" Valve Changer Dresser
B	STOP UNIT		PSVC 750	3/4" Valve Changer x 2 ft. c/w stuffing box housing - 3/4" valve and 3/4" service pipe.
B	STOP UNIT		PSVC 750DR	3/4" Valve Changer Dresser 175 Valve
B	STOP UNIT		TSVC 580	5/8" Steel Tubing Stopper & Valve Changer 2ft - 3/4" Posi-lock 3/4" CTS PE c/w stuffing box
C	CASE		VCLRG	1 1/4" to 2" Pelican V700 Valve Changer Carry Case
C	CASE		VCSTD	1/2" to 1" Pelican V700 Valve Changer Carrying Case
D	CLAMP		332x4	Cable x 4Ft
D	CLAMP		3PT UD65	Three Point Clamp 1/2" - 1 1/4" Riser
D	CLAMP		SGL UD65	Single Clamp
E	STUFFING BOX		PSVC 1000H	1" Valve Changer Stuffing Box
E	STUFFING BOX		PSVC 1000HAYSH	1" HAYS Valve Changer Stuffing Box
E	STUFFING BOX		PSVC 1250H	1 1/4" Valve Changer Stuffing Box
E	STUFFING BOX		PSVC 1500H	1 1/2" Housing/Stuffing box

1/2"-2" Gas-Free Valve Changer

E	STUFFING BOX		PSVC 750DRH	Stuffing Box for 3/4" and 3/4"x1/2" Dresser 175 Valve Changer
E	STUFFING BOX		PSVC 750H	3/4" Valve Changer Stuffing Box
F	HAND TOOL		12RW	1/2" Ratchet Wrench
F	HAND TOOL		MSTS 1225	Grease
F	HAND TOOL		ND 107005	5/32" Nut Driver Combo
F	HAND TOOL		ND 107006	3/16" Nut Driver
F	HAND TOOL		ND 107008	1/4" Nut Driver
F	HAND TOOL		WR 250	1/4" Wrench
F	HAND TOOL		WR 312	5/16" Wrench