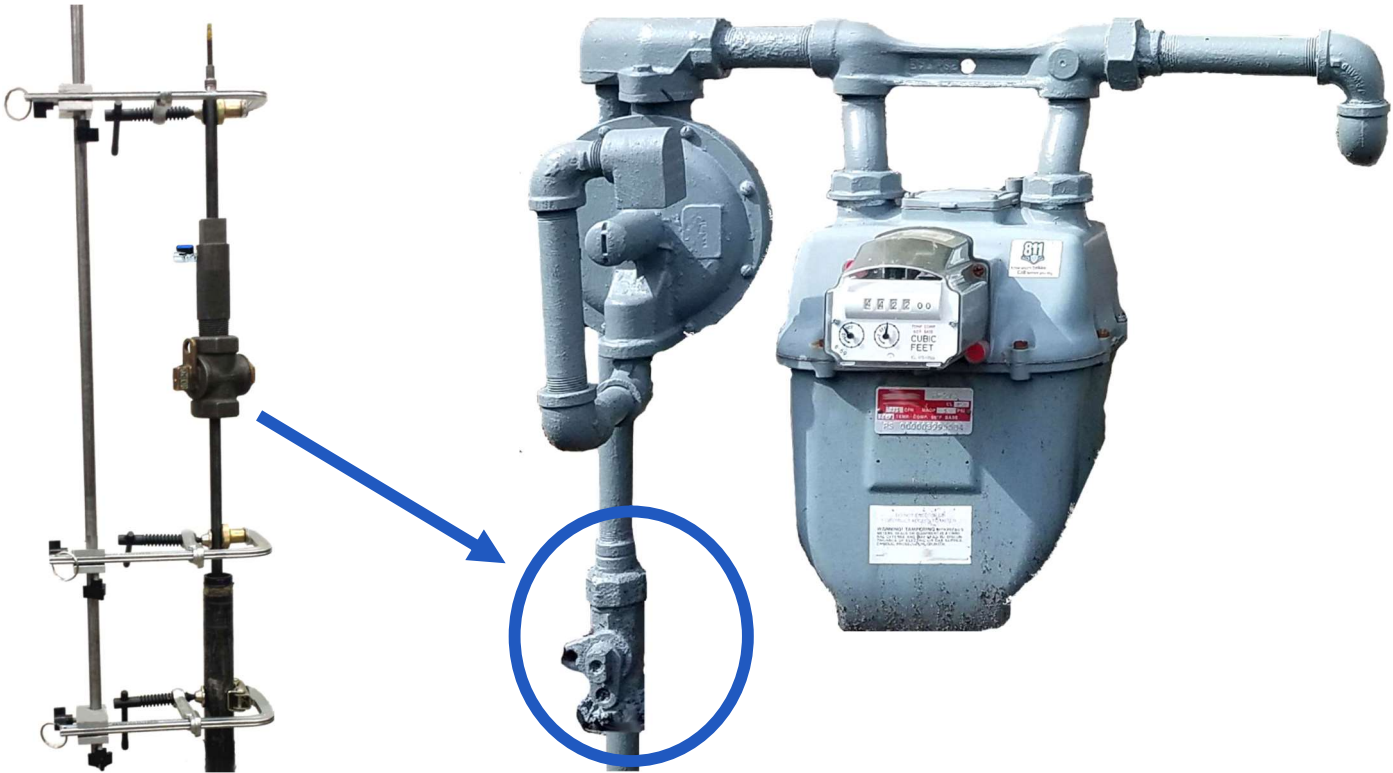


1/2"-2" Gas-Free Valve Changer



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UNIQUE PRODUCTS FOR GAS DISTRIBUTION



Operating Instructions

Pressure Rating: 100 PSIG



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

Updated 01/12/2024

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

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

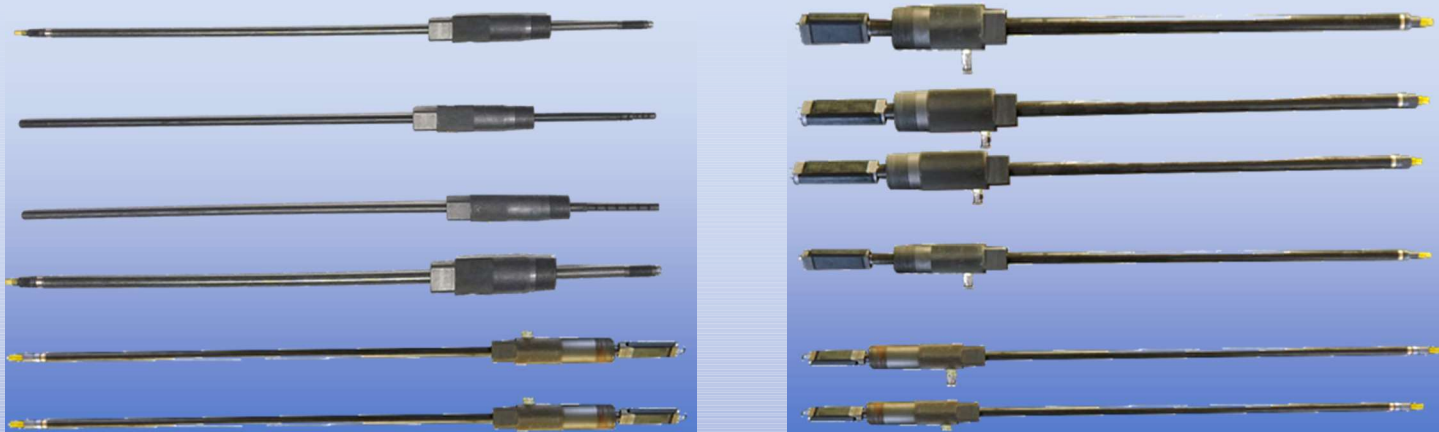
INSPECT TOOL & ACCESSORIES: Before setup, physically inspect the tool and its accessories. Look for worn parts, loose bolts or nuts, damaged O-rings, etc. A properly maintained tool will significantly decrease the chance of injury.

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.**



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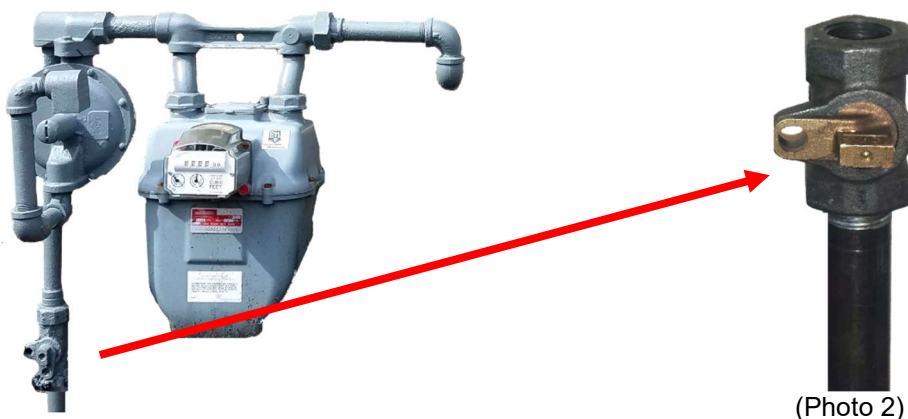
OPERATION AND SET-UP

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 according to 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" 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)

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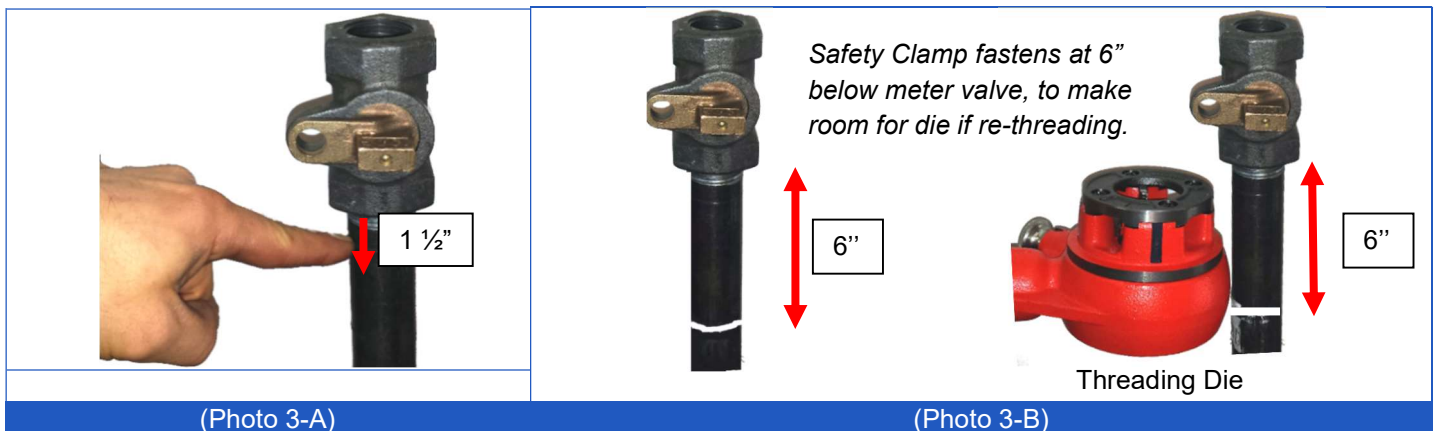
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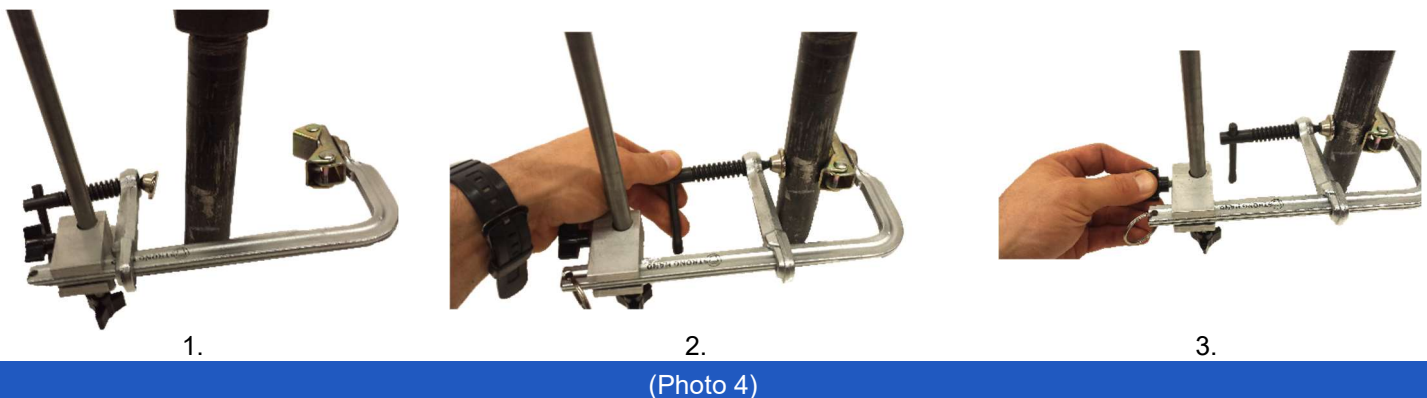
5. **IMPORTANT:** Lightly lubricate the Valve Changer shaft with a small amount of the supplied lubricant. Exercise the shaft up and down through the Stuffing Box a few times to ensure proper operation. Inspect the Stuffing Box internal O-rings, threads, and bleeder valve for any damage. Replace damaged parts before use.

6. Measure approximately 1-1/2" below the valve and mark the pipe. This is where the bottom Safety Clamp will be attached to the pipe (photo 3-A).

6-A. OPTIONAL – DO THIS ONLY IF THE PIPE NEEDS TO BE CUT AND RETHREADED. Measure approximately 6" below the valve and mark the pipe. If cutting and rethreading the pipe, this is where the bottom Safety Clamp will attach to the riser to leave enough room to operate the threading die (Photo 3-B).



7. Assemble and fasten the Safety Clamp below the meter valve (Photo 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).



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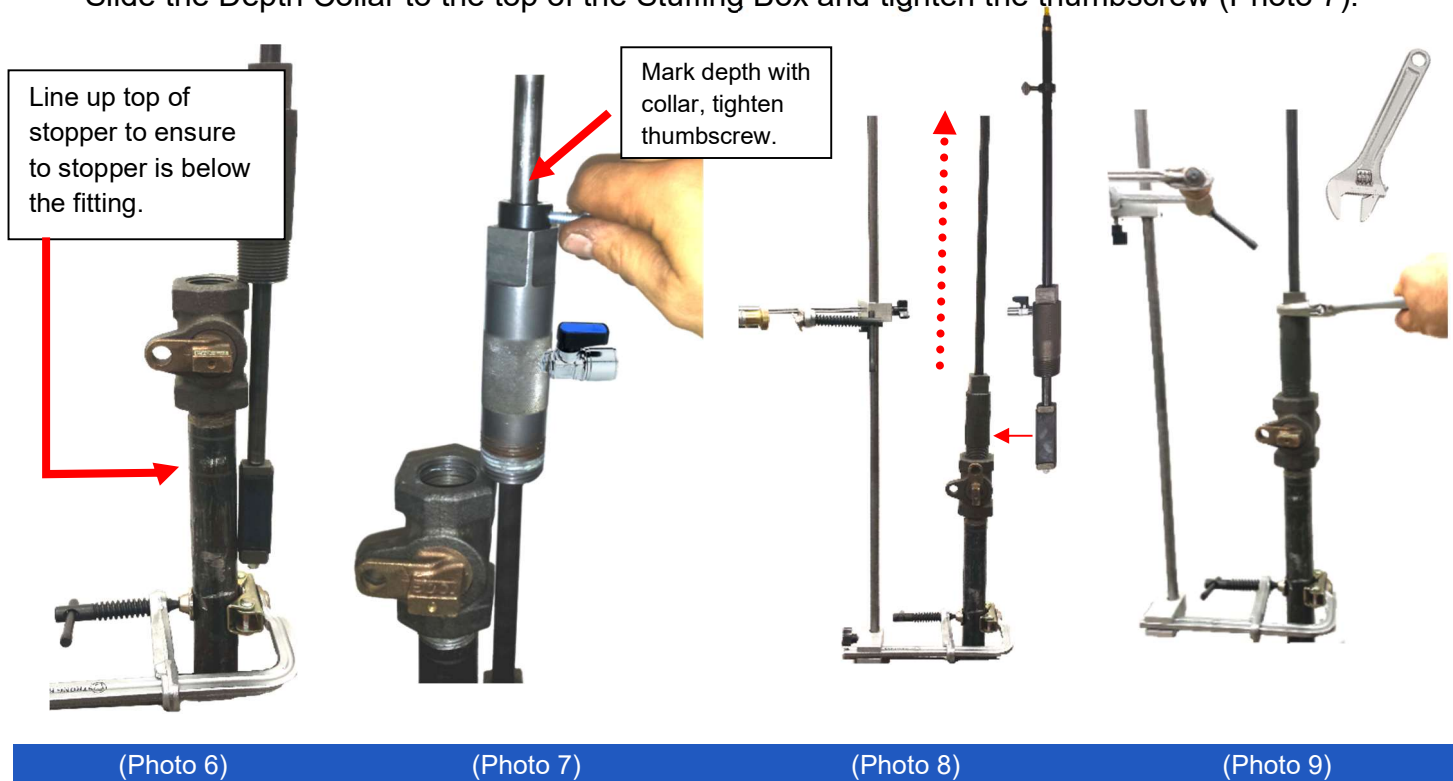
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1/2"-2" Gas-Free Valve Changer

8. An optional Sight Glass is available and can be tightened onto the meter valve to look down through the open valve port to view any possible obstructions and to check the rubber stopper's width will fit through the valve port (Photo 5, 5-A).



9. 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 with the 1 1/2" line (Photo 6). Slide the Depth Collar to the top of the Stuffing Box and tighten the thumbscrew (Photo 7).



10. Fully retract the Rubber Stopper into the Stuffing Box (Photo 8). Tighten the Stuffing Box onto the meter valve using an adjustable wrench. **Do not use a pipe wrench, as this will damage the flats on the Stuffing Box (Photo 9).**

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

NOTES ON O-RING ONLY AND CYLINDER RUBBER-STOPPING UNITS

Skip this page if not using these types of stopping units.

NOTE A: O-Ring Only Stoppers

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

54-PSVC280PE



0.300" OD short, stepped end with 3 Orings

54-PSVC300PE

NOTE B: Small Cylinder Stopper



.335" OD Rubber Cylinder End

54-FBC 335

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: 54-PSVC300PE, 54-PSVC250PE, 54-FBC 335 uses a standard 1/2"- 3/4" Stuffing Box #54-PSVC750H

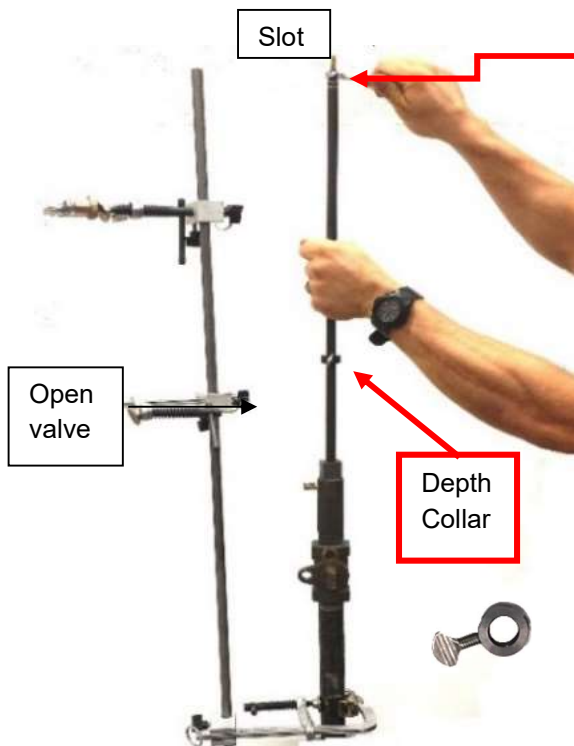
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1/2"-2" Gas-Free Valve Changer

11. 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 to push through the port (Photo 10-A).
12. Open the meter valve, push down, 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)
13. Keep one hand on the shaft to prevent the gas pressure from pushing the shaft upwards.
14. Fasten the Top Clamp, then turn the wrench clockwise to expand the Rubber Stopper. **Use the Nut Driver to hold back on the threaded rod while tightening the Rubber Stopper (Photo 10-B).**
The Rubber Stopper will now expand inside the riser, preventing the shaft from spinning.



(Photo 10-A)



(Photo 10-B)



(Photo 11)

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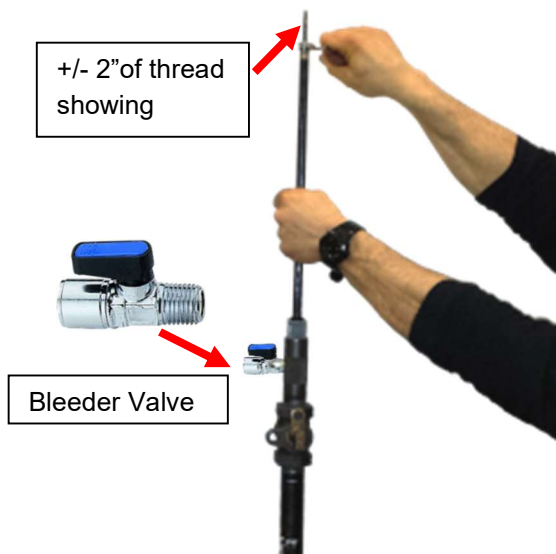
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1/2"-2" Gas-Free Valve Changer

15. Expand the Rubber Stopper until you see approximately 2" of threads at the top of the shaft, and noticeable resistance is felt. Open the bleeder valve. Slowly expand the Rubber Stopper in quarter-turn increments until the sound of blowing gas has stopped. **Do not over-tighten** (Photo12).

16. Then attached the top clamp (Photo 13).



(Photo 12)

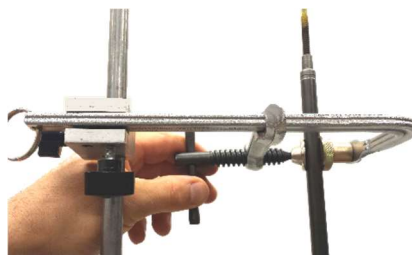
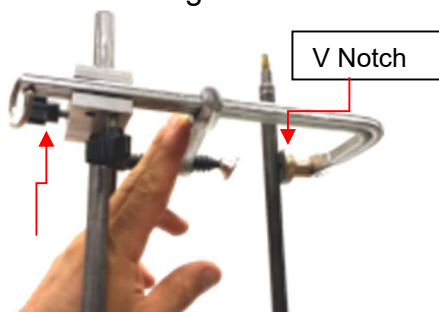
TIP: The smaller the size the easier it is to over-tighten the stopper. Use care when tightening to achieve a gas stop.



(Photo 13)

17. To fasten the top or middle Shaft Clamps, 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.



a.

b.

c.

(Photo 14)

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

18. At times, the rubber may slightly relax. If necessary, slowly tighten the Rubber Stopper in quarter-turn increments until you stop hearing the sound of blowing gas. **Do not over-tighten.**

19. If the gas has stopped, the meter valve may be removed (Photo 15).

20. Remove the meter valve with the Stuffing Box attached (Photo 16). Push the meter valve up the shaft and then secure the Middle Clamp.

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

Note: When removing 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). Inspect the riser threads and determine if cutting and rethreading are necessary.



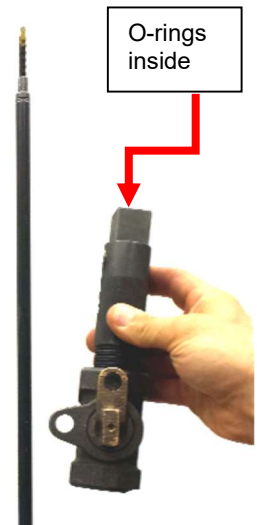
(Photo 15)



(Photo 16)



(Photo 17)



(Photo 18)

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

DAMAGED THREAD REMOVAL AND RETHREADING RISER

Skip steps 23-27, if not removing a riser section to rethread it. Go to Step 28 on the next page.

22. Attach Top and Middle Clamps (Photo 19)

23. Cut off damaged threads (Photo 20).

24.

25. Remove the cut section (Photo 21).

26. Lift the piece up and over the shaft by releasing and resecuring each Clamp until completely removed.



27. To fit the threading die, loosen and re-secure each Clamp when positioning the die upwards or downwards over the shaft; always leave one clamp secure. (Photo 22-24).

NOTE: Do not rest the die on the clamps. Remove sharp edges inside the riser that may prevent the Valve Changer rubber stopper from traveling through the pipe when renewing the meter valve.



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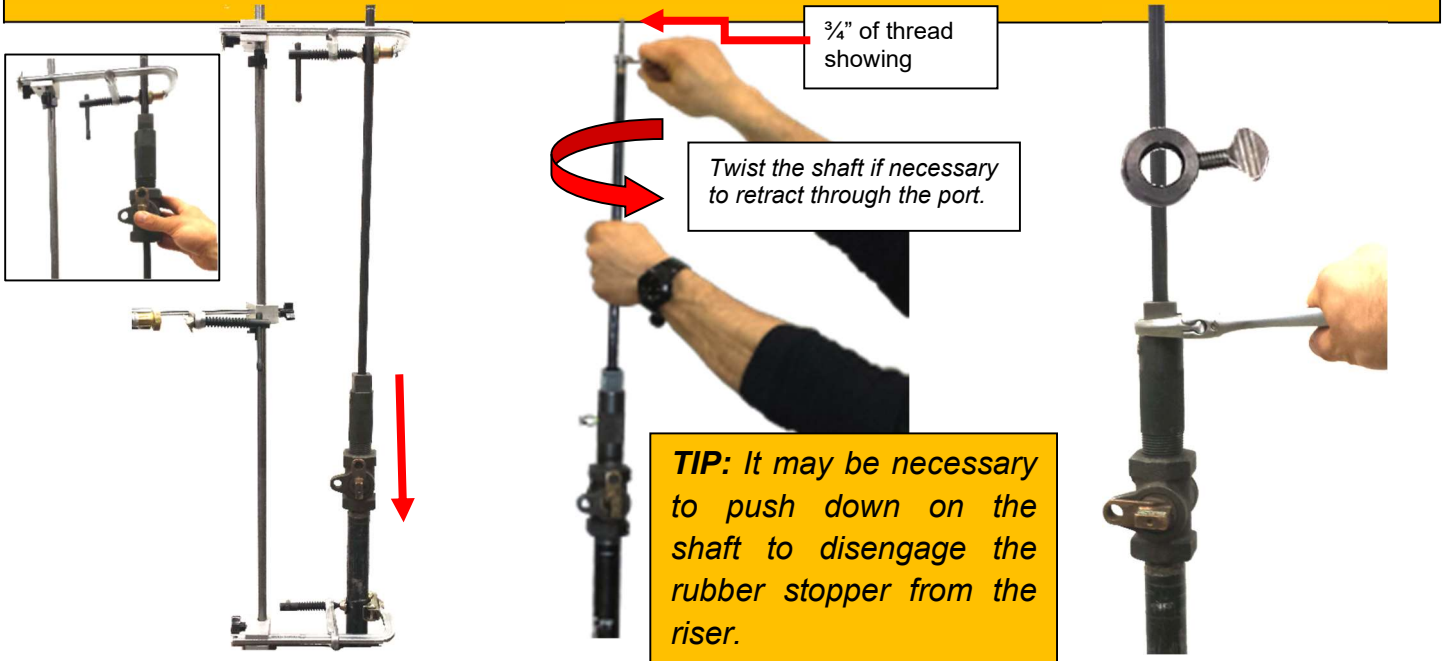
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1/2"-2" Gas-Free Valve Changer

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 25).

TIP: It is good practice, especially on lower pressures, to reattach the depth collar approximately in the middle of the shaft to prevent it from accidentally falling through the stuffing box into the riser.



(Photo 25)

(Photo 26)

(Photo 27)

29. Once the meter valve is tight, loosen the Rubber Stopper until less than $\frac{3}{4}$ of an inch of threads show at the top of the shaft and the Rubber Stopper is fully relaxed (Photo 26).
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 shaft 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 27-28).
32. The operation is complete. Reconnect fittings and return to service according to company procedure.



(Photo 28)

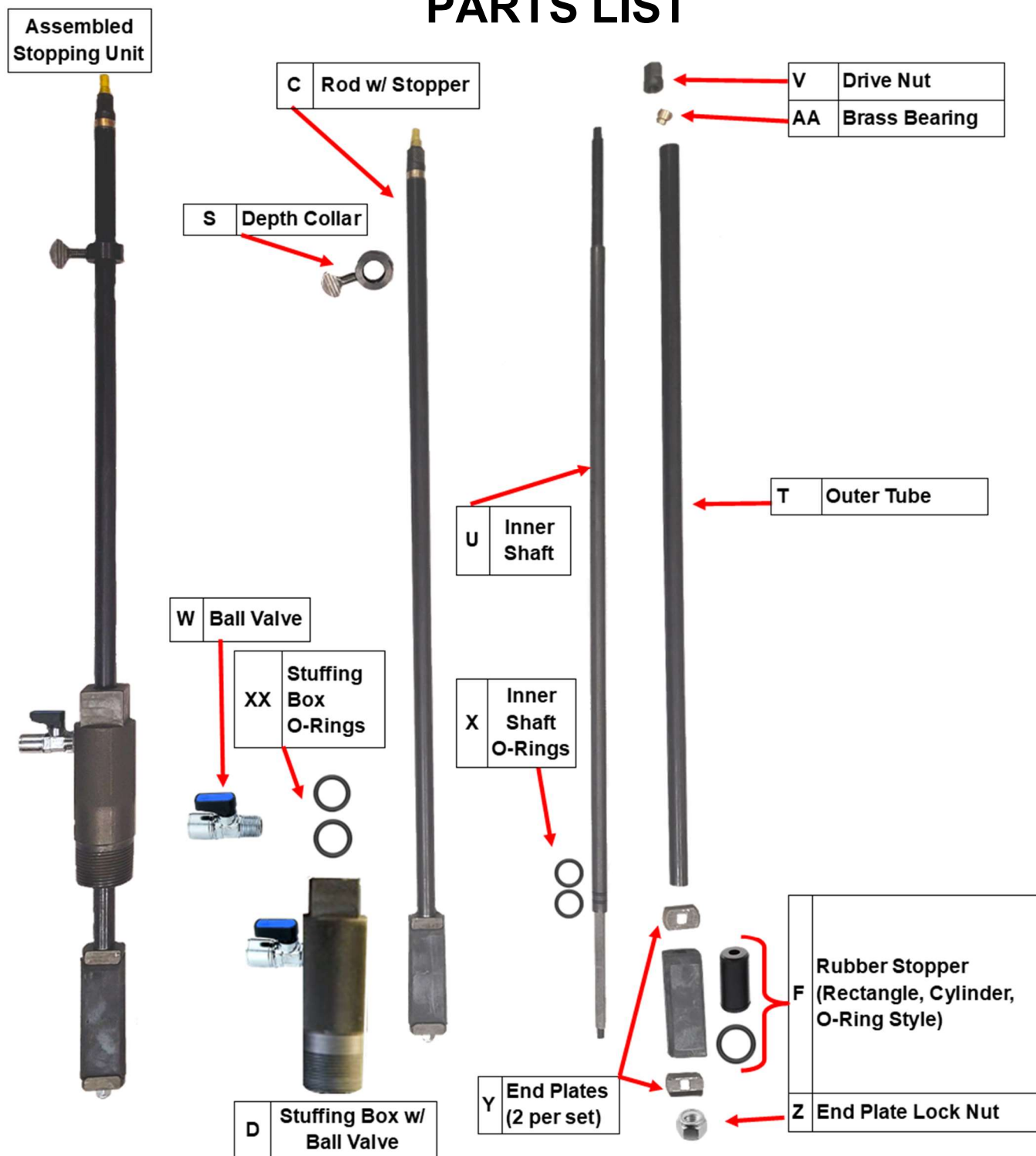
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1/2"-2" Gas-Free Valve Changer

PARTS LIST










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

LINE	SEC.	CAT.	PHOTO	PART#	DESC
1	A	VC KIT		54-VC5001000	1/2"-1" VALVE CHANGER TOOL KIT -KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
2	A	VC KIT		54-VC5001000-F	1/2"-1" VALVE CHANGER TOOL KIT W/FABRIC CASE -KITS INCLUDE FABRIC CASE, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
3	A	VC KIT		54-VC7501000	3/4"-1" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
4	A	VC KIT		54-VC7501250	3/4"-1 1/4" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
5	A	VC KIT		54-VC75D1H125	3/4"-1 1/4" DRESSER/HAYS VALVE CHANGER KIT - INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
6	A	VC KIT		54-VC5001250	1/2"-1-1/4" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
7	A	VC KIT		54-VC7502000	3/4"-2" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.

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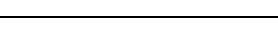


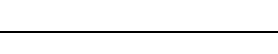

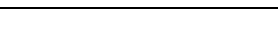
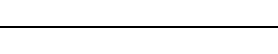




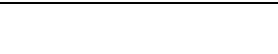


8	A	VC KIT		54-VC5002000E	1/2"-2" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
9	A	VC KIT		54-VC1000KIT	1" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
10	A	VC KIT		54-VC750KIT	3/4" VALVE CHANGER TOOL KIT - KITS INCLUDE CUSTOM TOOLBOX, VALVE CHANGER UNITS, HAND TOOLS, SIGHT GLASSES, SAFETY CLAMP, AND LUBRICANT.
11	A	VC KIT		54-VCBASETOOL	VALVE CHANGER BASE TOOL – BUILD YOUR OWN KIT - INCLUDES: TOOLBOX, 3 POINT SAFETY CLAMP, HAND TOOLS, AND LUBRICANT. ADD SIZES LISTED BELOW
12	B	VC STOP UNITS /W STUFF BOX		54-PSVC500	1/2" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
13	B	VC STOP UNITS /W STUFF BOX		54-PSVC750	3/4" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
14	B	VC STOP UNITS /W STUFF BOX		54-PSVC1000	1" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
15	B	VC STOP UNITS /W STUFF BOX		54-PSVC1250	1 1/4" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
16	B	VC STOP UNITS /W STUFF BOX		54-PSVC1500	1 1/2" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
17	B	VC STOP UNITS /W STUFF BOX		54-PSVC2000	2" VALVE CHANGER WITH STUFFING BOX & DEPTH COLLAR
18	B	VC STOP UNITS /W STUFF BOX		54-FBC 335	3/4" ANODELESS RISER PE VALVE CHANGER 0.325" CYLINDER STOPPER

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19	B	VC STOP UNITS /W STUFF BOX		54-TSVC580	PE VALVE CHANGER 0.460 CYLINDER
20	B	VC STOP UNITS /W STUFF BOX		54-PSVD17500	3/4" X 1/2" DRESSER 175 VC
21	B	VC STOP UNITS /W STUFF BOX		54-PSVD175	3/4" X 3/4" DRESSER 175 VALVE CHANGER WITH DEPTH COLLAR
22	B	VC STOP UNITS /W STUFF BOX		54-PSVC1000HAYS	1" HAYS VALVE CHANGER WITH DEPTH COLLAR AND STUFFING BOX (UNDERSIZED PORTS)
23	B	VC STOP UNITS /W STUFF BOX		54-PSVC1000HON	1" HONEYWELL PE VALVE CHANGER (RUBBER SIZE 500" X .780") WITH STUFFING BOX
24	B	VC STOP UNITS /W STUFF BOX		54-PSVC1250HON	1 1/4" HONEYWELL PE VALVE CHANGER WITH DEPTH COLLAR AND STUFFING BOX
25	C	VC STOP UNIT NO STUFF BOX		54-PSVC250PE	0.280 STEPPED O-RING PE STOPPER (NO STUFFING BOX, USE 54-PSVC 750H) USE ON 1/2" PE INSERTED RISER.
26	C	VC STOP UNIT NO STUFF BOX		54-PSVC300PE	0.300 STEPPED 6-O-RING PE STOPPER (NO STUFFING BOX, USE 54-PSVC 750H) USE ON 1/2" PE INSERTED RISER.
27	C	VC STOP UNIT NO STUFF BOX		54-FBC335R	3/4" ANODELESS RISER PE VALVE CHANGER ROD W/0.325" CYLINDER STOPPER
28	C	VC STOP UNIT NO STUFF BOX		54-TSVC580A	PE VALVE CHANGER 0.460 CYLINDER STOPPER OLD PART#54-PSVCD175C1
29	C	VC STOP UNIT NO STUFF BOX		54-PSVC501	1/2" VALVE CHANGER ROD WITH RUBBER STOPPER
30	C	VC STOP UNIT NO STUFF BOX		54-PSVC751	3/4" VALVE CHANGER ROD WITH RUBBER STOPPER
31	C	VC STOP UNIT NO STUFF BOX		54-PSVD17501	3/4" X 1/2" DRESSER 175 CHANGER ROD ONLY WITH STOPPER (USE 54-PSVC 750DRH STUFFING BOX)
32	C	VC STOP UNIT NO STUFF BOX		54-PSVD1751	3/4" X 3/4" DRESSER 175 CHANGER ROD ONLY WITH STOPPER (USE 54-PSVC 750DRH STUFFING BOX)
33	C	VC STOP UNIT NO STUFF BOX		54-PSVC1001	1" VALVE CHANGER ROD WITH RUBBER STOPPER
34	C	VC STOP UNIT NO STUFF BOX		54-PSVC1251	1 1/4" VALVE CHANGER ROD WITH RUBBER STOPPER
35	C	VC STOP UNIT NO STUFF BOX		54-PSVC1501	1 1/2" VALVE CHANGER ROD WITH RUBBER STOPPER
36	C	VC STOP UNIT NO STUFF BOX		54-PSVC2002	2" VALVE CHANGER ROD WITH RUBBER STOPPER
37	D	VC SUFFING BOX		54-PSVC750H	1/2"-3/4" STANDARD STUFFING BOX (ALSO USED WITH FBC355, 250PE, 300PE AND 580)

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

38	D	VC SUFFING BOX		54-PSVC750DRH	3/4" OR 3/4" X 1/2" DRESSER 175 VALVE CHANGER STUFFING BOX
39	D	VC SUFFING BOX		54-PSVC1000H	1" STUFFING BOX
40	D	VC SUFFING BOX		54-PSVC1000HS	1" HAYS STUFFING BOX (UNDERSIZED PORTS)
41	D	VC SUFFING BOX		54-PSVC1000I	1 1/4" STUFFING BOX
42	D	VC SUFFING BOX		54-PSVC1500H	1 1/2" STUFFING BOX
43	D	VC SUFFING BOX		54-PSVC2000H	2" STUFFING BOX
44	E	VC STD. RUBBERS		54-VC500X	1/2" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
45	E	VC STD. RUBBERS		54-VC500X5	1/2" 5PK SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
46	E	VC STD. RUBBERS		54-VC750X	3/4" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
47	E	VC STD. RUBBERS		54-VC750X5	3/4" 5PK SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
48	E	VC STD. RUBBERS		54-VC1000X	1" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
49	E	VC STD. RUBBERS		54-VC1000X5	1" 5PK SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
50	E	VC STD. RUBBERS		54-VC1250X	1 1/4" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
51	E	VC STD. RUBBERS		54-VC1250X5	1 1/4" 5PK SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
52	E	VC STD. RUBBERS		54-VC1500X	1 1/2" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
53	E	VC STD. RUBBERS		54-VC2000X	2" SCH 40 / SCH 80 REPLACEMENT RUBBER STOPPER
54	F	VC SPECIALTY RUBBERS		54-PSVC250PEX	0.280 STEPPED O-RING PE STOPPER REPLACEMENT O-RING SET
55	F	VC SPECIALTY RUBBERS		54-PSVC300PEX	0.300 STEPPED O-RING PE STOPPER REPLACEMENT O-RING SET
56	F	VC SPECIALTY RUBBERS		54-VC335X	3/4" ANODELESS RISER REPLACEMENT RUBBER

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


















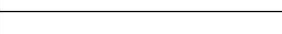



57	F	VC SPECIALTY RUBBERS		54-TSVC580X	PE VALVE CHANGER 0.460 CYLINDER REPLACEMENT STOPPER
58	F	VC SPECIALTY RUBBERS		54-VC500175X	1/2" DRESSER 175 REPLACEMENT RUBBER STOPPER
59	F	VC SPECIALTY RUBBERS		54-VC750175X	3/4" DRESSER 175 REPLACEMENT RUBBER STOPPER
60	F	VC SPECIALTY RUBBERS		54-VC1000HAYSX	1" HAYS UNDERSIZED REPLACEMENT RUBBER STOPPER
61	F	VC SPECIALTY RUBBERS		54-VC1000HONSX	1" HONEYWELL REPLACEMENT RUBBER STOPPER
62	F	VC SPECIALTY RUBBERS		54-VC1250HONSX	1 1/4" HONEYWELL REPLACEMENT RUBBER STOPPER
63	G	VC SIGHTS		54-1322K76	1-1/4" SIGHT GLASS
64	G	VC SIGHTS		54-1210K25	1" SIGHT GLASS
65	G	VC SIGHTS		54-1210K24	3/4" SIGHT GLASS (SAME USED FOR 1/2" VALVE CHANGER)
66	G	VC SIGHTS		54-3277K25	1 1/2" SIGHT GLASS
67	G	VC SIGHTS		54-3277K27	2" SIGHT GLASS
68	H	VC TOOLS		54-VCBOX2	1/2"-2" VALVE CHANGER TOOLBOX
69	I	VC TOOLS		54-V700	V700 CASE
70	J	VC TOOLS		54-VCSTD	FOAM-VALVE CHANGER STD CASE 1/2"-1 1/4"
71	L	VC TOOLS		54-VC5020	FOAM VC LARGE 1/2"-2" V700 C
72	L	VC TOOLS		54-VC1250W	1/2" COMBINATION WRENCH
73	L	VC TOOLS		54-VC7501000W	5/16" RATCHET COMBO WRENCH FOR 1/2", 3/4" & 1" VALVE CHANGER
74	L	VC TOOLS		54-VC500W	1/4" RATCHET COMBO WRENCH (DRESSER175)
75	M	VC TOOLS		54-750100ND	3/16" NUT DRIVER (FOR 3/4" & 1"
76	M	VC TOOLS		54-VC1250ND	1/4" NUT DRIVER FOR 1 1/4"-2" VALVE CHANGER)
77	M	VC TOOLS		54-VC500ND	4MM NUT DRIVER (1/2 STANDARD & 1/2-3/4 DRESSER 175)
78	N	VC TOOLS		54-PLCSLUBE	PLCS LUBRICANT

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

79	O	VC CLAMP		54-3PT UD65	3 POINT SAFETY CLAMP FOR 1/4"-2" VALVE CHANGER
80	P	VC CLAMP		54-VCJAWL	LOWER PIPE CLAMP ARM ASSEMBLY
81	Q	VC CLAMP		54-VCJAWU	UPPER PIPE CLAMP ARM ASSEMBLY
82	R	VC CLAMP		54-VCS	3 POINT CLAMP SHAFT
83	S	VC REPAIR PARTS		54-VCDC500	1/2" DEPTH COLLAR FOR VALVE CHANGER
84	S	VC REPAIR PARTS		54-VCDC750	3/4" DEPTH COLLAR FOR VALVE CHANGER
85	S	VC REPAIR PARTS		54-VCDC1000	1" DEPTH COLLAR FOR VALVE CHANGER
86	S	VC REPAIR PARTS		54-VCDC1250	1 1/4" DEPTH COLLAR FOR VALVE CHANGER
87	S	VC REPAIR PARTS		54-VCDC1500	1 1/2" DEPTH COLLAR FOR VALVE CHANGER
88	S	VC REPAIR PARTS		54-VCDC2000	2" DEPTH COLLAR FOR VALVE CHANGER
89	T	VC REPAIR PARTS		54-VC500OS	1/2"-3/4" VC OUTER TUBE
90	T	VC REPAIR PARTS		54-VC175OS	1/2"-3/4" DRESSER175 OUTER TUBE
91	T	VC REPAIR PARTS		54-PSVC750T	1" VC OUTER TUBE
92	T	VC REPAIR PARTS		54-PSVC1250T	1 1/4" VC OUTER TUBE
93	T	VC REPAIR PARTS		54-PSVC1500T	1-1/2" VC OUTER TUBE
94	T	VC REPAIR PARTS		54-PSVC2000T	2" VC OUTER TUBE
95	U	VC REPAIR PARTS		54-VC500750IS	1/2"-3/4" VALVE CHANGER REPLACEMENT INNER SHAFT
96	U	VC REPAIR PARTS		54-VC1000IS	1" VALVE CHANGER REPLACEMENT INNER SHAFT
97	U	VC REPAIR PARTS		54-VC1000HAPR	1" HAYS VALVE CHANGER REPLACEMENT INNER SHAFT
98	U	VC REPAIR PARTS		54-VC1250IS	1 1/4" VALVE CHANGER REPLACEMENT INNER SHAFT
99	U	VC REPAIR PARTS		54-VC1500IS	1 1/2" VALVE CHANGER REPLACEMENT INNER SHAFT

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


100	U	VC REPAIR PARTS		54-VC2000IS	2" VALVE CHANGER REPLACEMENT INNER SHAFT
101	V	VC REPAIR PARTS		54-DN500	1/2" VALVE CHANGER TOP DRIVE NUT (DN 312)
102	V	VC REPAIR PARTS		54-DN750	3/4" VALVE CHANGER TOP DRIVE NUT
103	V	VC REPAIR PARTS		54-DN1000	1" VALVE CHANGER TOP DRIVE NUT
104	V	VC REPAIR PARTS		54-DN1250	1 1/4" VALVE CHANGER TOP DRIVE NUT
105	V	VC REPAIR PARTS		54-DN1500	1-1/2" VALVE CHANGER TOP DRIVE NUT
106	V	VC REPAIR PARTS		54-DN2000	2" VALVE CHANGER TOP DRIVE NUT
107	W	VC REPAIR PARTS		46-863100404	1/4" M&F MINIATURE BALL VALVE
108	X	VC REPAIR PARTS		54-#010	1/2" STUFFING BOX O-RINGS (10 PACK)
109	X	VC REPAIR PARTS		54-#012	3/4" STUFFING BOX O-RINGS (10 PACK)
110	X	VC REPAIR PARTS		54-#014	1" STUFFING BOX O-RINGS (10 PACK)
111	X	VC REPAIR PARTS		54-#016	1 1/4" STUFFING BOX O-RINGS (10 PACK)
112	X	VC REPAIR PARTS		54-#018	1-1/2" STUFFING BOX O-RINGS (10 PACK)
113	X	VC REPAIR PARTS		54-#020	2" STUFFING BOX O-RINGS (10 PACK)
114	X	VC REPAIR PARTS		54-#006	1/2" VALVE CHANGER INNER SHAFT O-RING (10 PACK)
115	X	VC REPAIR PARTS		54-#007	3/4" VALVE CHANGER INNER SHAFT O-RING (10 PACK)
116	X	VC REPAIR PARTS		54-#008	1" VALVE CHANGER INNER SHAFT O-RING (10 PACK)
117	X	VC REPAIR PARTS		54-#009	1 1/4" VALVE CHANGER INNER SHAFT O-RING (10 PACK)
118	X	VC REPAIR PARTS		54-#010	1/2" STUFFING BOX O-RINGS (10 PACK)
119	X	VC REPAIR PARTS		54-#012	3/4" STUFFING BOX O-RINGS (10 PACK)
120	Y	VC REPAIR PARTS		54-EP500	1/2" VALVE CHANGER END PLATE SET
121	Y	VC REPAIR PARTS		54-EP750	3/4" VALVE CHANGER END PLATE SET

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

122	Y	VC REPAIR PARTS		54-EP1000	1" VALVE CHANGER END PLATE SET
123	Y	VC REPAIR PARTS		54-1000HEP	1" HAYS VALVE CHANGER END PLATE SET
124	Y	VC REPAIR PARTS		54-EP1250	1 1/4" VALVE CHANGER END PLATE SET
125	Y	VC REPAIR PARTS		54-EP1500	1 1/2" VALVE CHANGER END PLATE SET
126	Y	VC REPAIR PARTS		54-EP2000	2" VALVE CHANGER END PLATE SET
127	Z	VC REPAIR PARTS		54-632	XXS NYLON END PLATE NUT-10PK FBC 335, PSVC 500DR, PSVC 750DR
128	Z	VC REPAIR PARTS		54-832	XS NYLON END PLATE NUT-10PK (USE- TSV 750, PSVC 500, PSVC 750)
128	Z	VC REPAIR PARTS		54-1032	S NYLON END PLATE NUT 10PK PSVC1000HAYS, PSVC 1000)
129	Z	VC REPAIR PARTS		54-2520	M NYLON END PLATE NUT (10PK) PSVC 1250, PSVC 1500,
130	Z	VC REPAIR PARTS		54-37516	L NYLON END PLATE NUT (10PK) PSVC2000
131	AA	VC REPAIR PARTS		54-500STEPB	1/2" TOP BRASS BEARING WASHER
132	AA	VC REPAIR PARTS		54-750STEPB	3/4" TOP BRASS BEARING WASHER
133	AA	VC REPAIR PARTS		54-750DRSTEPB	1/2"-3/4" DRESSER 175 TOP BRASS DRIVE BEARING (SLPWSH 312)
134	AA	VC REPAIR PARTS		54-1000STEPB	1" TOP BRASS BEARING WASHER
135	AA	VC REPAIR PARTS		54-1250STEPB	1 1/4" TOP BRASS BEARING WASHER
136	AA	VC REPAIR PARTS		54-1500STEPB	1 1/2" TOP BRASS BEARING WASHER
137	AA	VC REPAIR PARTS		54-DN750	3/4" VALVE CHANGER TOP DRIVE NUT

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

SPECIFICATIONS

The Valve Changer is for the safe, gas-free removal and replacement of most defective 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" rectangular port or ball valves threaded onto a steel Schedule 40 / 80 riser, Anodeless Risers, and PE inserted risers with service head adapters.

Toolbox

- Toolbox contains all the necessary tools to complete operation.
- Supplied with custom foam inserts.
- Color: Black

- Weight: 38 lbs.
- Box Material: Polypropylene
- Foam Inserts: Closed Cell Medium-Density ETHAFOAM

Toolbox Dimensions



Interior: 36.5 x 14.5 x 6.0"
Exterior: 39.6 x 17.7 x 6.7"

Typical Tool Packaging

Small Hand Tools for 1/2"-2" Valve Changer

- Ratcheting Combination Wrenches
- Nut Drivers

Sight Glasses

3-PT CLAMP

Silicone Lubricant for O-rings, shaft, and stoppers.

1/2"-2" Valve Changer Units

Stuffing Box, Mini Ball Valve & Rubber Stoppers included with complete stopping units.

Components

Valve Changer Units:

- Choice of sizes: 0.280" to 2" specified at the time of order.
- Total Length of each unit: 24" (other lengths upon request)
- Construction: Machined steel, cylindrical NPTM stuffing box with 1/4" NPT mini ball valve, embedded rubber Buna-N o-rings and steel push rod.
- Plug Rubber: Rectangular shape 70 Durometer Buna-N Rubber.
- Operation Type: Mechanical

Safety Clamp:

- Construction: 1/2" dia. X 26" long shaft with 3 moveable thumb screw clamping jaw arms.
- Material: Plated Steel
- Operation Type: Mechanical

Sight Glass:

- Clear thick glass window fused to a metal body.
- 100 psi rating
- Nickel-Plated Steel
- Screw-in hex mount NPT male threads.

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

NOTES

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