



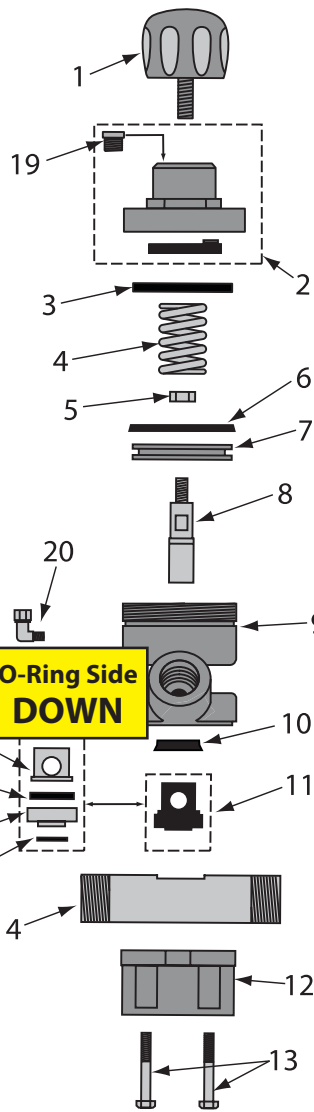
ASSEMBLY INSTRUCTIONS

888-2148-00006PB

APV, APV II, MPV, MPV II & MPV MINI, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)



APV (Automatic Plunger Valve)



APV (Automatic Plunger Valve)	
888-2149-006PB	APV, 1", W/TC SLEEVE
888-2149-106PB	APV, 1", W/URETHANE SLEEVE
888-2149-007PB	APV, 1-1/4", W/TC SLEEVE
888-2149-107PB	APV, 1-1/4", W/URETHANE SLEEVE
888-2149-008PB	APV, 1-1/2", W/TC SLEEVE
888-2149-108PB	APV, 1-1/2", W/URETHANE SLEEVE
888-2149-00099PB	APV, REPAIR KIT W/TC SLEEVE, INCLUDES # 6, 8, 10, 15, 16, 17 & 18
888-2149-00098PB	APV, SEAL KIT, SEALS ONLY W/URETHANE SEAT, INCLUDES # 6, 10, 15 & 17
888-2149-10099PB	APV, REPAIR KIT W/URETHANE SLEEVE, INCLUDES # 6, 8, 10 & 11
888-2149-10098PB	APV, SEAL KIT, SEALS ONLY W/URETHANE SLEEVE, INCLUDES 6, 10, & 11
1 888-2149-00001PB	APV, KNOB
2 888-2148-00002PB	APV & APV II, CAP ASSEMBLY
3 888-2149-00019PB	APV & APV II, BUMP RING
4 888-2149-00003PB	APV & APV II, SPRING
5 888-2149-00008PB	APV, NUT
6 888-2149-00004PB	APV, PISTON SEAL
7 888-2149-00005PB	APV, PISTON
8 888-2149-00007PB	APV, TUNGSTEN CARBIDE, PLUNGER
9 888-2149-00009PB	APV, CYLINDER
10 888-2148-00006PB	VALVE, PLUNGER SEAL
11 888-2149-10013PB	APV, SLEEVE, URETHANE
12 888-2149-00011PB	APV, BASE
13 888-7010-50755PB	APV & APV II, BOLT, 4 PACK
888-2149-00615PB	APV & APV II, PIPE NIPPLE 1" FEMALE x 1-1/2" MALE
888-2149-00715PB	APV & APV II, PIPE NIPPLE 1-1/4" MALE x 1-1/4" MALE
888-2149-00815PB	APV & APV II, PIPE NIPPLE 1-1/2" MALE x 1-1/2" MALE
15 888-2149-00018PB	APV & APV II, O-RING
16 888-2149-00014PB	APV, INSERT
17 888-2149-00010PB	APV & APV II, URETHANE SEAT
18 888-2148-00013PB	APV & APV II, SOLID TUNGSTEN CARBIDE SLEEVE
888-2149-32020PB	APV & APV II, MULTI PORTED SLEEVE STAINLESS STEEL
19 888-2014-300PB	VENT, 1/8"
20 888-4203-50000PB	SWIVEL 90°, 1/8"MNPT X 1/8" F



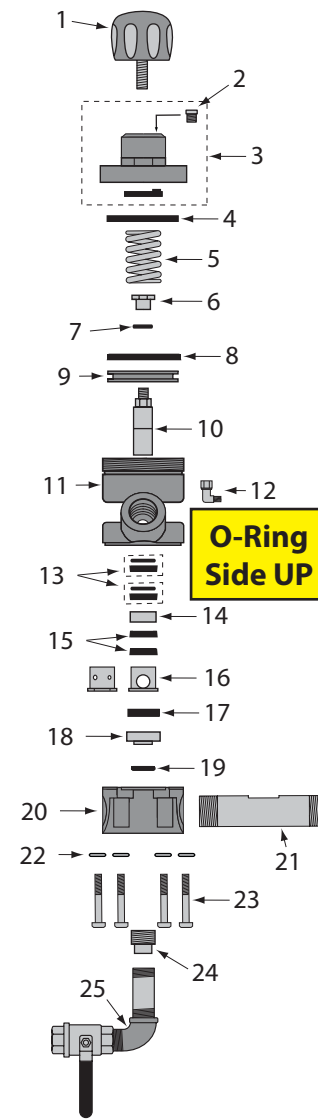
ASSEMBLY INSTRUCTIONS

888-2148-00006PB

APV, APV II, MPV, MPV II & MPV MINI, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)



APVII (Automatic Plunger Valve II)



APVII™ (Automatic Plunger Valve II)	
888-2148-006PB	APV II, 1" W/SOLID TUNGSTEN CARBIDE SLEEVE
888-2148-007PB	APV II, 1-1/4" W/SOLID TUNGSTEN CARBIDE SLEEVE
888-2148-008PB	APV II, 1-1/2" W/SOLID TUNGSTEN CARBIDE SLEEVE
888-2148-00099PB	APV II, REPAIR KIT W/SOLID TUNGSTEN CARBIDE SLEEVE, INCLUDES (1) # 8 & 10, (2) # 13, (2) # 15, (1) #16, 17, 18 & 19
888-2148-00098PB	APV II, SEAL KIT, SEALS ONLY, W/URETHANE SEAT, INCLUDES (1) # 8, (2) # 13 & 15, (1) # 17 & 19
1 888-2148-00001PB	APV II, KNOB (BLACK PIRATE BRAND)
2 888-2014-300PB	VENT, 1/8"
3 888-2148-00002PB	APV & APV II, CAP ASSEMBLY
4 888-2149-00019PB	APV & APV II, BUMP RING
5 888-2149-00003PB	APV & APV II, SPRING
6 888-2148-00015PB	APV & APV II, PLUNGER STOP (STAINLESS)
7 888-2148-00016PB	APV II, NYLON WASHER
8 888-2148-00004PB	APV & APV II, PISTON SEAL (GREEN URETHANE)
9 888-2148-00005PB	APV II, PISTON
10 888-2148-00007PB	APV II, PLUNGER (STAINLESS/SOLID TUNGSTEN CARBIDE)
11 888-2148-00009PB	APV II, CYLINDER, W/1" NPT CLEANOUT
12 888-4203-50000PB	SWIVEL 90°, 1/8"MNPT X 1/8" F
13 888-2148-00006PB	APV & APV II, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)
14 888-2148-00017PB	APV II, PLUNGER BUSHING (STAINLESS)
15 888-2148-30006PB	APV II, PLUNGER SEAL W/O "O"-RING (CLEAR URETHANE)
16 888-2148-00013PB	APV & APV II, SOLID TUNGSTEN CARBIDE SLEEVE
888-2149-32020PB	APV & APV II, MULTI PORTED SLEEVE STAINLESS STEEL
17 888-2149-00010PB	APV & APV II, URETHANE SEAT
18 888-2148-00014PB	APV II, INSERT (STAINLESS)
19 888-2149-00018PB	APV & APV II, O-RING
20 888-2148-30011PB	APV II, BASE W/CLEANOUT
888-2149-00615PB	APV & APV II, PIPE NIPPLE 1" FEMALE x 1-1/2" MALE
888-2149-00715PB	APV & APV II, PIPE NIPPLE 1-1/4" MALE x 1-1/4" MALE
888-2149-00815PB	APV & APV II, PIPE NIPPLE 1-1/2" MALE x 1-1/2" MALE
22 888-7027-50302PB	APV & APV II, FLAT WASHER 3/8" SAE (10 PACK)
23 888-7010-50755PB	APV & APV II, BOLT, 4 PACK
24 888-3014-206PB	APV II, PLUG, PIPE STAINLESS 1"
25 999-8403-00054PB	APV II CLEANOUT BALL VALVE ASSY



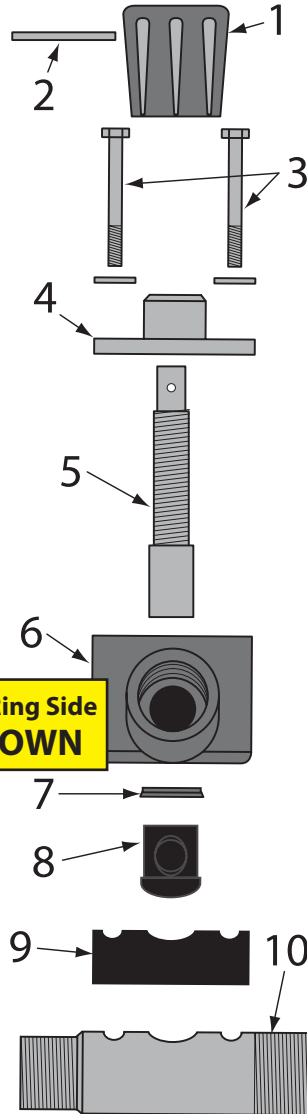
ASSEMBLY INSTRUCTIONS

888-2148-00006PB

APV, APV II, MPV, MPV II & MPV MINI, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)



MPV (Manual Plunger Valve)



O-Ring Side DOWN

MPV (Manual Plunger Valve)	
	888-2125-106PB MPV, 1", W/URETHANE SLEEVE
	888-2125-107PB MPV, 1-1/4", W/URETHANE SLEEVE
	888-2125-108PB MPV, 1-1/2", W/URETHANE SLEEVE
	888-2125-10099PB MPV, REPAIR KIT W/URETHANE SLEEVE, INCLUDES #2, 5, 7, 8 & 9
	888-2125-10098PB MPV, SEAL KIT, W/URETHANE SLEEVE, INCLUDES #7, 8 & 9
1	888-2125-00001PB MPV, KNOB
2	888-2125-00004PB MPV & MPV II, ROLL PIN
3	888-7010-50556PB MPV, BOLT W/WASHER
4	888-2125-00002PB MPV, CAP
5	888-2125-00005PB MPV & MPV II, PLUNGER
6	888-2125-00006PB MPV, BODY
7	888-2148-00006PB APV, APV II, MPV & MPV II, PLUNGER SEAL W/"O"-RING (CLEAR URETHANE)
8	888-2125-10008PB MPV & MPV II, SLEEVE, URETHANE
9	888-2125-00009PB MPV, GASKET
10	888-2125-00610PB MPV, PIPE NIPPLE 1" FEMALE x 1-1/2" MALE
	888-2125-00710PB MPV, PIPE NIPPLE 1-1/4" MALE x 1-1/2" MALE
	888-2125-00810PB MPV, PIPE NIPPLE 1-1/2" MALE x 1-1/2" MALE



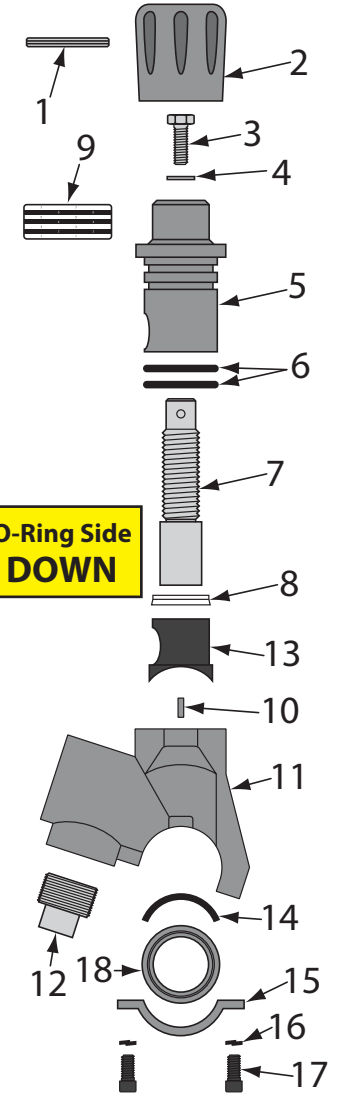
ASSEMBLY INSTRUCTIONS

888-2148-00006PB

APV, APV II, MPV, MPV II & MPV MINI, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)



MPV II (Manual Plunger Valve II)



O-Ring Side DOWN

MPV II (Manual Plunger Valve II)	
	888-2126-106PB MPV II, 1" W/ URETHANE SLEEVE
	888-2126-107PB MPV II, 1-1/4" W/ URETHANE SLEEVE
	888-2126-108PB MPV II, 1-1/2" W/ URETHANE SLEEVE
	888-2126-10099PB MPV II, REPAIR KIT W/URETHANE SLEEVE, INCLUDES #1, (2)#6, 7, 8, 13 & 14
	888-2126-10098PB MPV II, SEAL KIT W/URETHANE SLEEVE, INCLUDES (2)#6, 8, 13 & 14
1	888-2125-00004PB MPV & MPV II, ROLL PIN
2	888-2126-04700PB MPV II, KNOB (BLACK PIRATE BRAND)
3	888-2126-22500PB MPV II, BOLT (2 REQUIRED)
4	102-4420 AMV II & MPV II, FLAT WASHER (2 REQUIRED)
5	888-2126-29100PB MPV II, TOP BODY W/ABRASIVE ADJUSTMENT INDICATOR LABEL
6	888-2126-06600PB MPV II, "O"-RING (2 REQUIRED)
7	888-2125-00005PB MPV & MPV II, PLUNGER
8	888-2148-00006PB APV, APV II, MPV & MPV II, PLUNGER SEAL W/ "O"-RING (CLEAR URETHANE)
9	888-2126-07800PB MPV II, ABRASIVE ADJUSTMENT INDICATOR LABEL
10	888-2126-30800PB MPV II, ROLL PIN (3 REQUIRED)
11	888-2126-28900PB MPV II, PLUG, PIPE STAINLESS 1"
12	888-3014-206PB APV II & MPV II, PLUG, PIPE STAINLESS 1"
13	888-2126-10008PB MPV & MPV II, SLEEVE, URETHANE
14	888-2126-31300PB MPV II, GASKET
15	888-2126-29300PB MPV II, HALF RING CLAMP
16	888-2126-11800PB MPV II, LOCK WASHER (2 REQUIRED)
17	888-2126-22600PB MPV II, BOLT, HALF RING CLAMP (2 REQUIRED)
	888-2126-00610PB MPV II, PIPE NIPPLE, 1" FEMALE x 1-1/2" MALE
18	888-2126-00710PB MPV II, PIPE NIPPLE, 1-1/4" MALE x 1-1/2" MALE
	888-2126-00810PB MPV II, PIPE NIPPLE, 1-1/2" MALE x 1-1/2" MALE