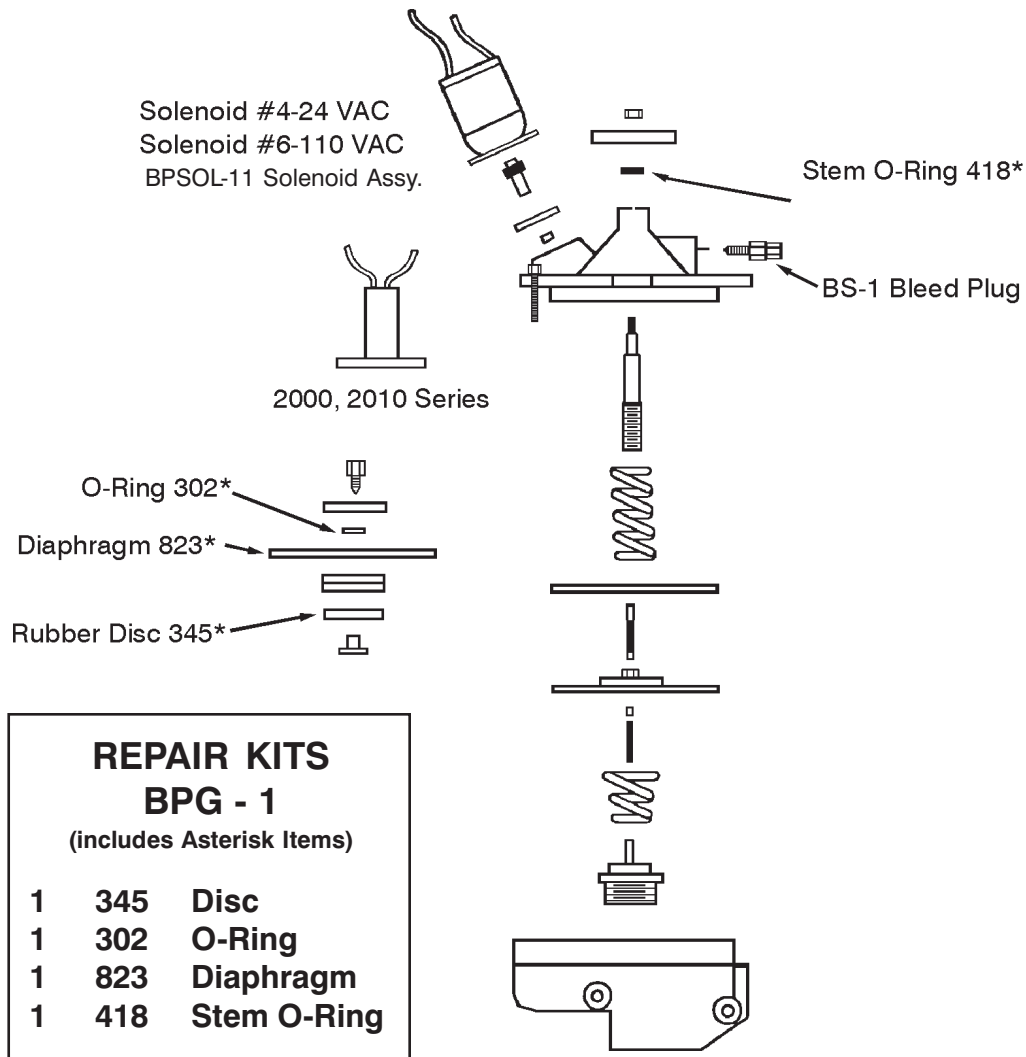


Basic Parts Stock No.	Description	Size	Page No.
BPG-1	2000 Series Repair Kit	1" - 1 ¹ / ₄ "	3, 4
BPG-2	2000 Series Repair Kit	1 ¹ / ₂ "	5, 6
BPG-3	2000 Series Repair Kit	2" - 2 ¹ / ₂ "	7, 8
BPG-4	S/DWS/PRV Series Repair Kit	3/4" - 1" - 1 ¹ / ₄ "	9, 10
BPG-5	S/DWS/PRV Series Repair Kit	1 ¹ / ₂ "	11, 12
BPG-6	S/DWS/PRV Series Repair Kit	2"	13, 14
	DW-PRV		15, 16
	Valve Model 2230 & 7230		17, 18
	Valve Model 2280, 4280 & 7280		19, 20
	Valve Model 2285		21, 22
	Valve Model 2250		23, 24
	Valve Model 2260		25, 26

BPG-1	2000 Series Repair Kit - 1" - 1¹/₄" (includes) BPG823 Diaphragm BPG345 Seat Washer BPG302 Diaphragm O-Ring BPG418 Stem O-Ring	BPG-6	S/DWS/PRV Series Repair Kit - 2" (includes) BPG4393 Diaphragm BPG4396 Seat Washer BPG4404 Body O-Ring BPG476 Solenoid O-Ring BPG418 Bonnet O-Ring
BPG-2	2000 Series Repair Kit - 1¹/₂" (includes) BPG310 Diaphragm BPG309 Seat Washer BPG3010 Diaphragm O-Ring BPG418 Stem O-Ring BPG3093 High Pressure Gasket	BPG-7	2000 Series Repair Kit - 1" - 1¹/₄" (includes) BPG402 Metering Pin BPG406 Pin Spring
BPG-3	2000 Series Repair Kit 2 - 2¹/₂" (includes) BPG300 Diaphragm BPG299 Seat Washer BPG475 Diaphragm O-Ring BPG418 Stem O-Ring BPG879 High Pressure Gasket	BPG-8	2000/S/DWS/PRV Series Repair Kit - 1¹/₂" (includes) BPG322 Metering Pin BPG303 Pin Spring BPG764 Spring Cap (2000 series only)
BPG-4	S/DWS/PRV Series Repair Kit - 3³/₄" - 1" - 1¹/₄" (includes) BPG4318 Diaphragm BPG4314 Seat Washer BPG4404 Body O-Ring BPG476 Solenoid O-Ring BPG4236 Bonnet o-Ring	BPG-9	2000/S/DWS/PRV Series Repair Kit - 2" - 3" (includes) BPG290 Metering Pin BPG303 Pin Spring BPG764 Spring Cap (2000 series only)
BPG-5	S/DWS/PRV Series Repair Kit -1¹/₂" (includes) BPG4289 Diaphragm BPG4297 Seat Washer BPG4404 Body O-Ring BPG476 Solenoid O-Ring BPG418 Bonnet O-Ring	BPG-10	S/DWS/PRV Series Repair Kit 3³/₄" - 1" - 1¹/₄" (includes) BPG402 Metering Pin BPG303 Pin Spring
		BPG-11	2000 Series Repair Kit 3" (includes) BPG300 Diaphragm BPG6758 Seat Washer BPG475 Diaphragm O-Ring BPG418 Stem O-Ring BPG879 High Pressure Gasket

1", 1 1/4" 2000, 2010, 2030, 2050 Series Electric Valve-Brass Cover, Iron Body



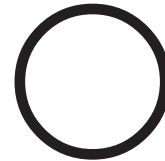
1", 1¹/₄" 2000, 2010, 2030, 2050 Series Electric Valve-Brass Cover, Iron Body



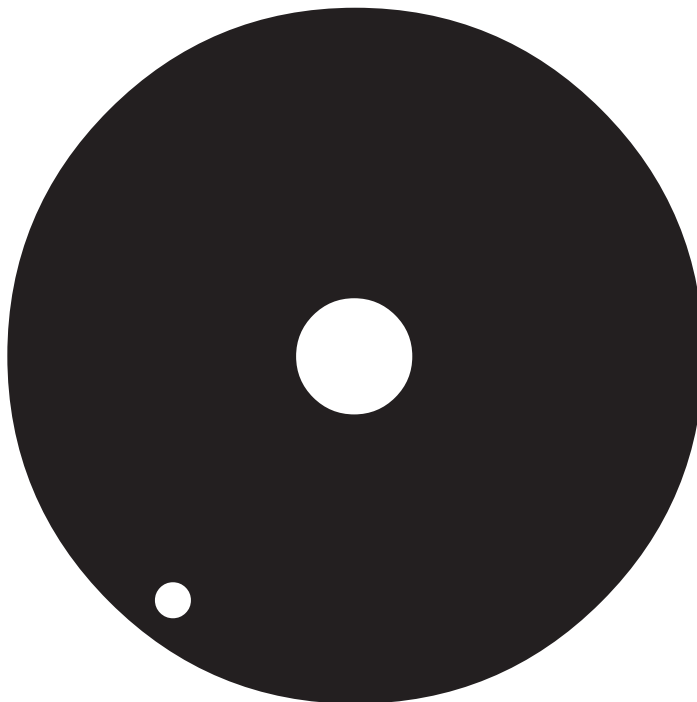
418 Stem O-Ring



345 Rubber Disc



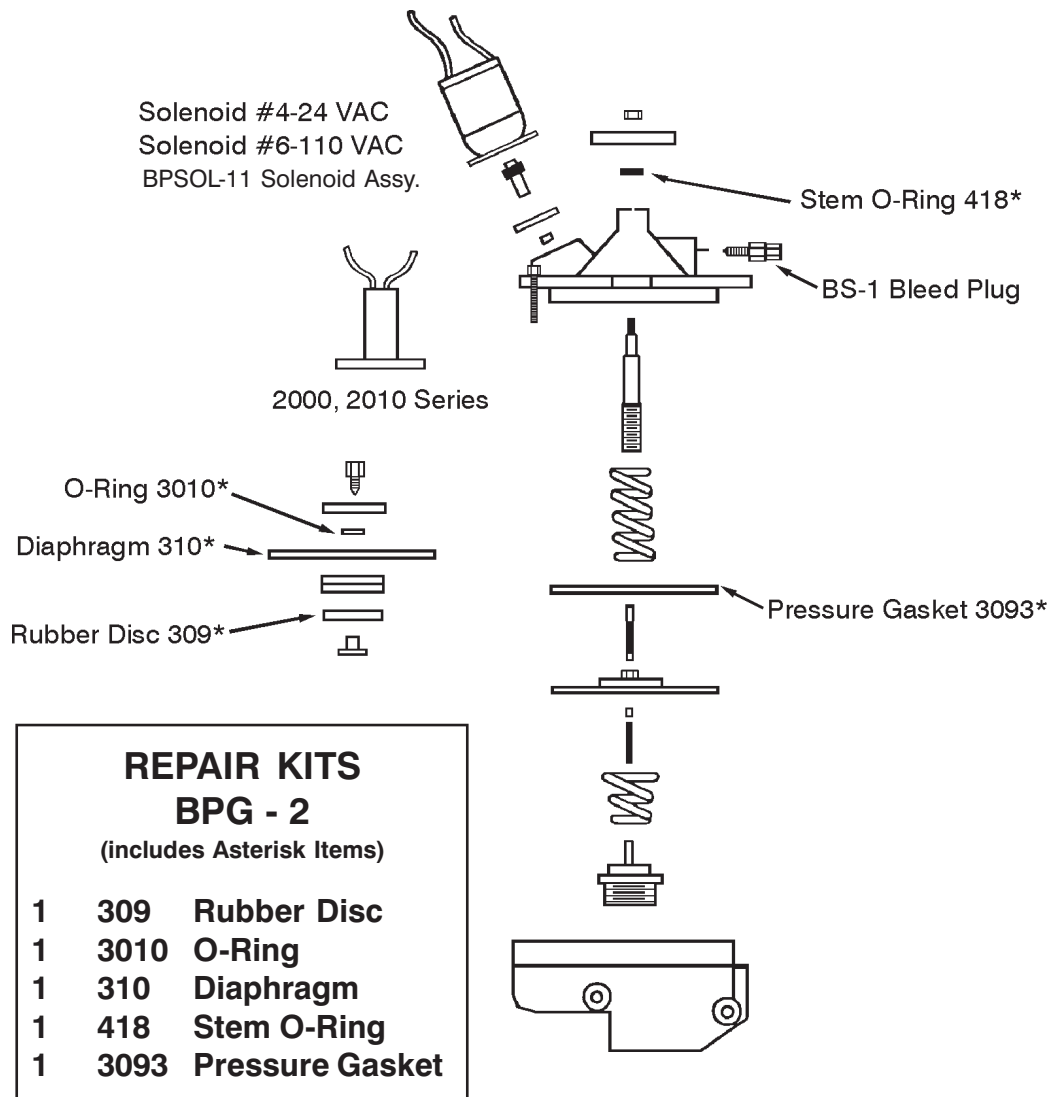
302 O-Ring



823 Diaphragm

(4)

1 1/2" 2000, 2010, 2030, 2050 Series Electric Valve-Brass Cover, Iron Body



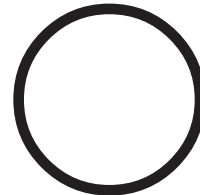
1 1/2" 2000, 2010, 2030, 2050 Series Electric Valve-Brass Cover, Iron Body



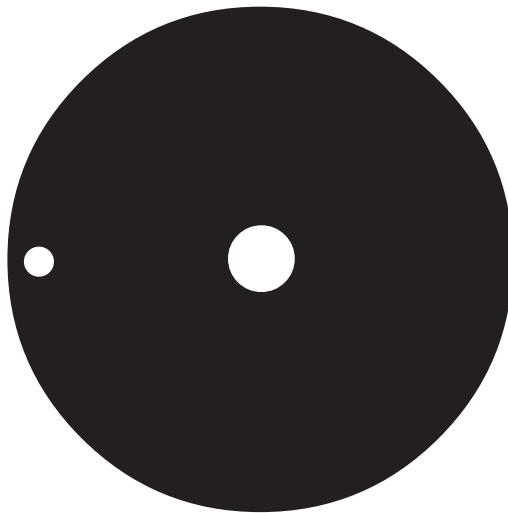
309 Rubber Disc



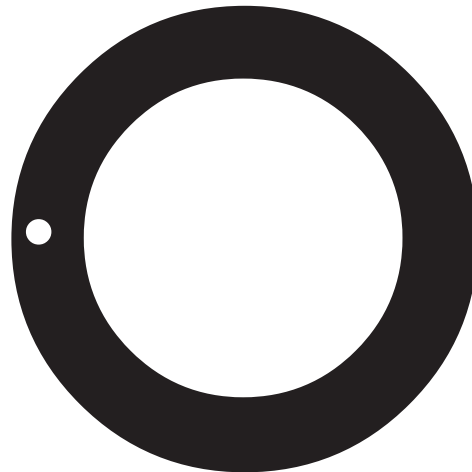
418 Stem O-Ring



3010 O-Ring

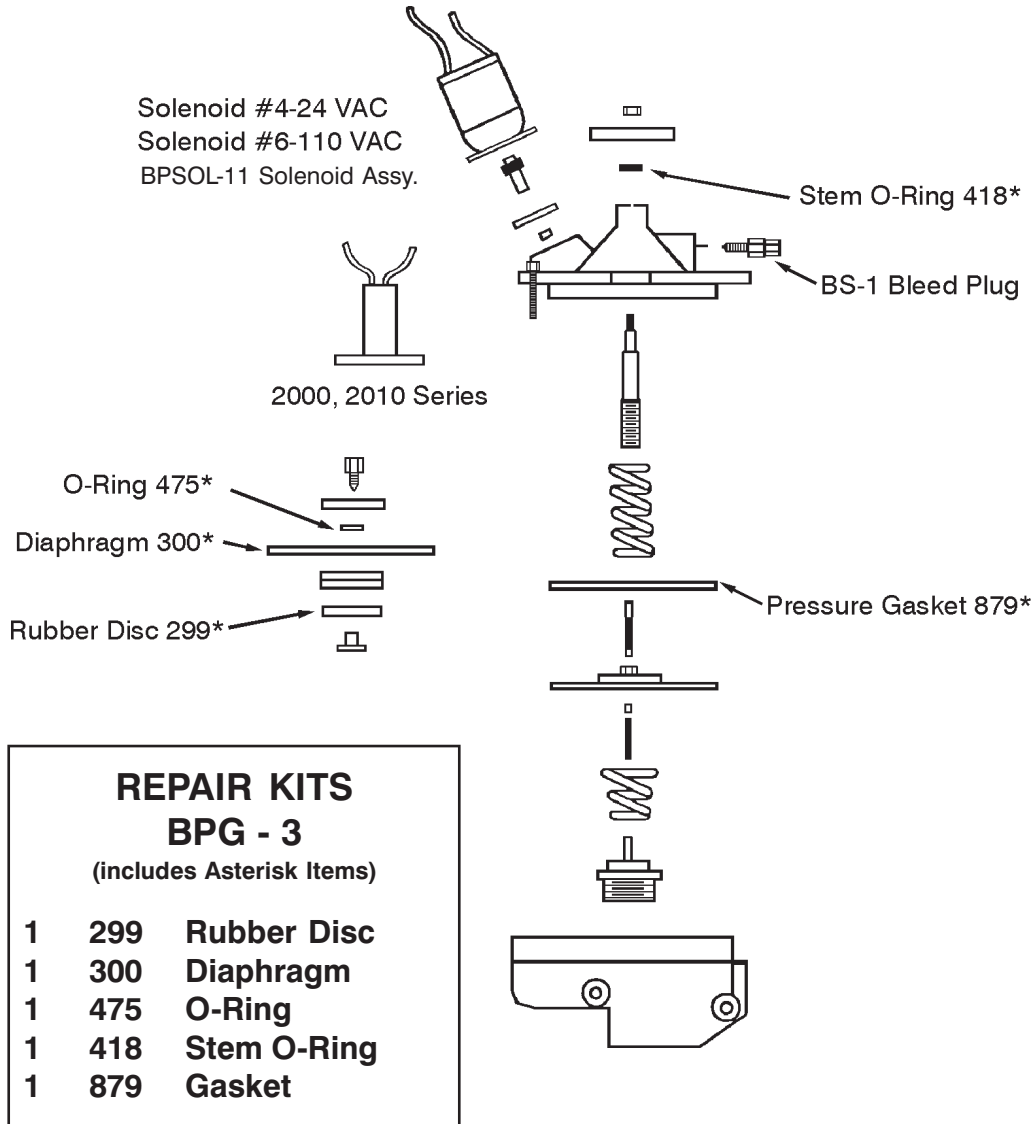


310 Diaphragm
(Not to Scale: Actual Size - 4 5/8")

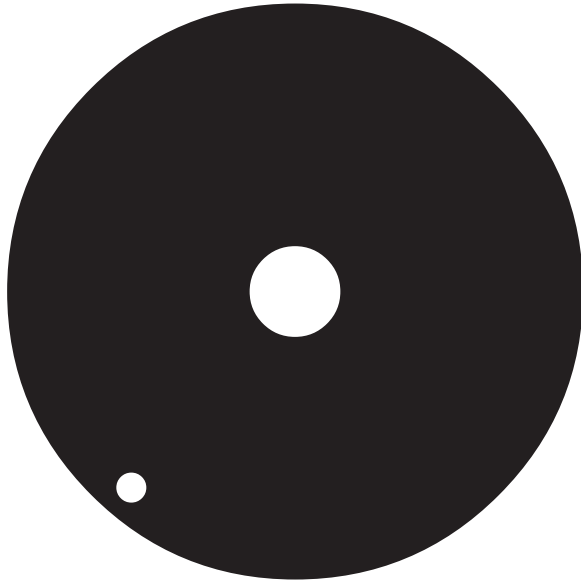


3093 Pressure Gasket
(Not to Scale: Actual Size - 4 1/2")

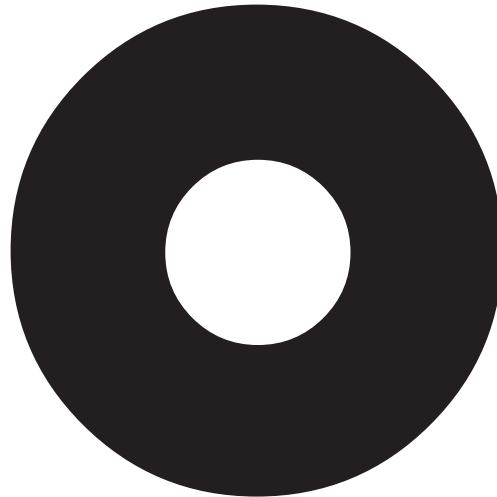
2", 2 1/2" 2000, 2010, 2030, 2050 Series Electric Valve-Brass Cover, Iron Body



2", 2 1/2" 2000, 2010, 2030, 2050 Series
Electric Valve-Brass Cover, Iron Body



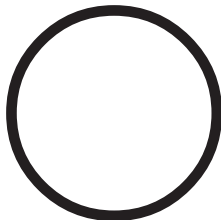
300 Diaphragm
(Not to Scale: Actual Size - 5 5/8")



299 Rubber Disc



418 O-Ring



475 O-Ring



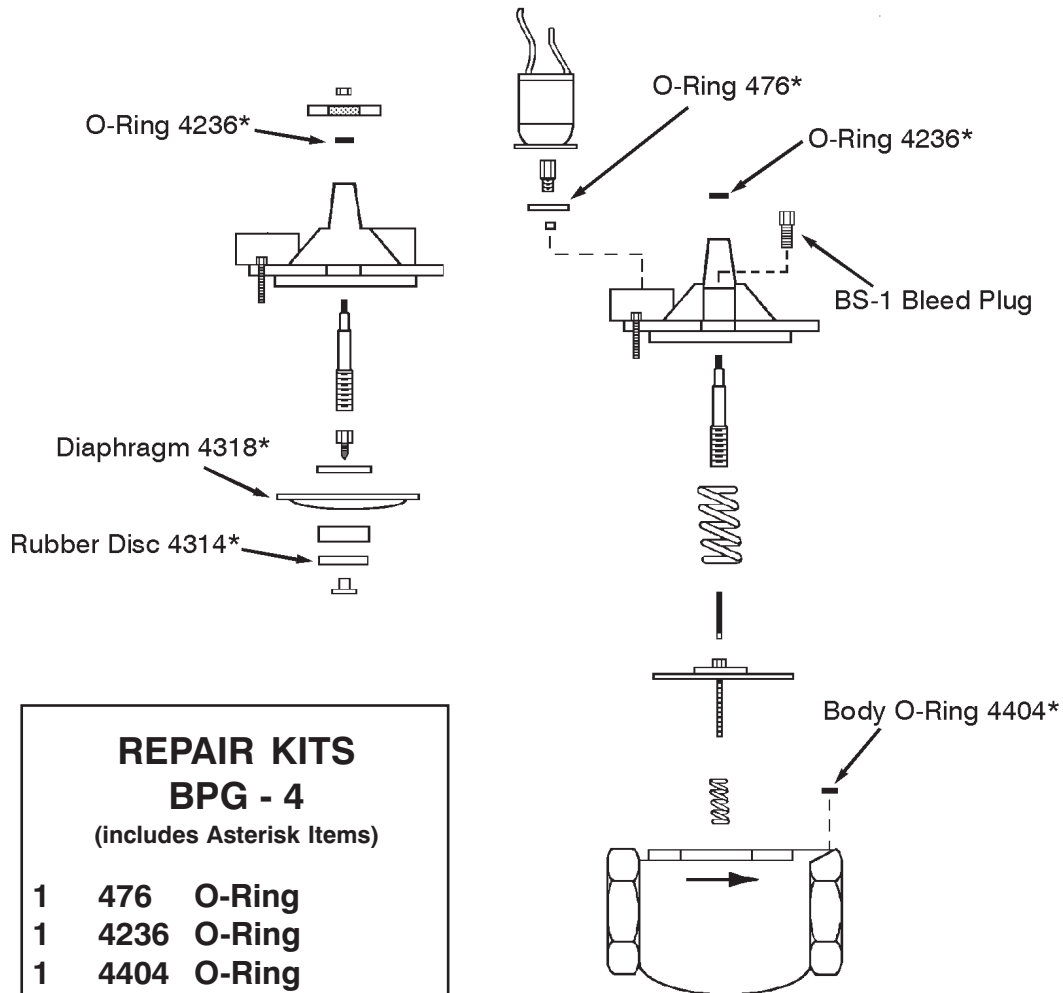
879 Pressure Gasket
(Not to Scale: Actual Size - 5 1/2")

(8)

3/4", 1", 1 1/4" S-Series
Electric Valve

Complete Solenoid Assembly

Sol. #4 (24 VAC)
Sol. #6 (110 VAC)



REPAIR KITS BPG - 4

(includes Asterisk Items)

- | | | |
|---|------|-------------|
| 1 | 476 | O-Ring |
| 1 | 4236 | O-Ring |
| 1 | 4404 | O-Ring |
| 1 | 4314 | Rubber Disc |
| 1 | 4318 | Diaphragm |

³/₄", 1", 1¹/₄" S-Series
Electric Valve



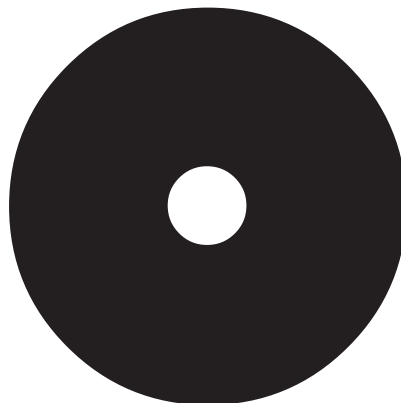
**4404
Body O-Ring**



476 O-Ring



**4314
Rubber Disc**



4318 Diaphragm

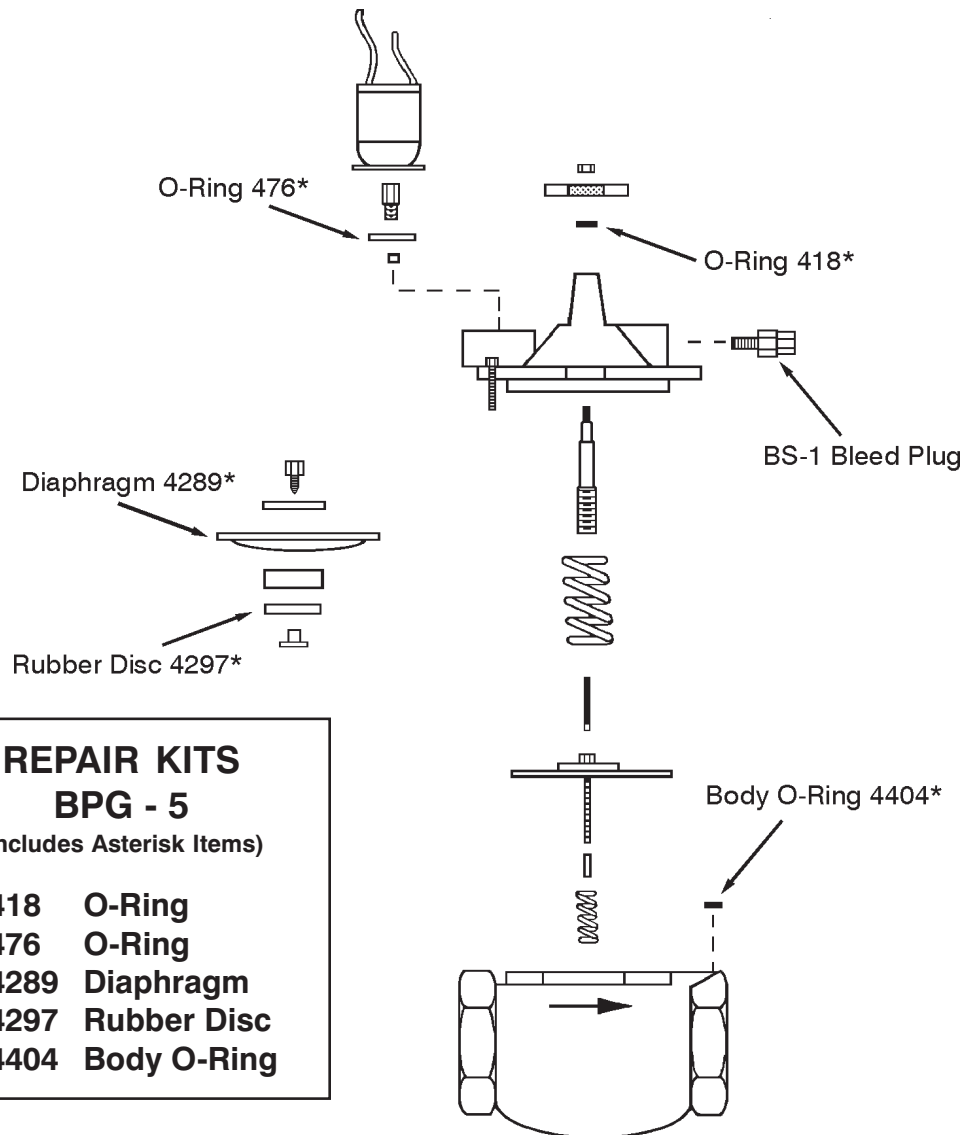


4236 O-Ring

1 1/2" S-Series Electric Valve

Complete Solenoid Assembly

Sol. #4 (24 VAC)
Sol. #6 (110 VAC)



REPAIR KITS BPG - 5

(includes Asterisk Items)

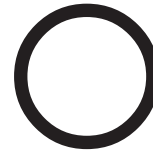
1	418	O-Ring
1	476	O-Ring
1	4289	Diaphragm
1	4297	Rubber Disc
1	4404	Body O-Ring



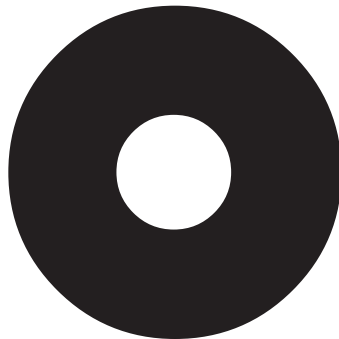
4404
Body O-Ring



418 O-Ring



476 O-Ring



4297
Rubber Disc



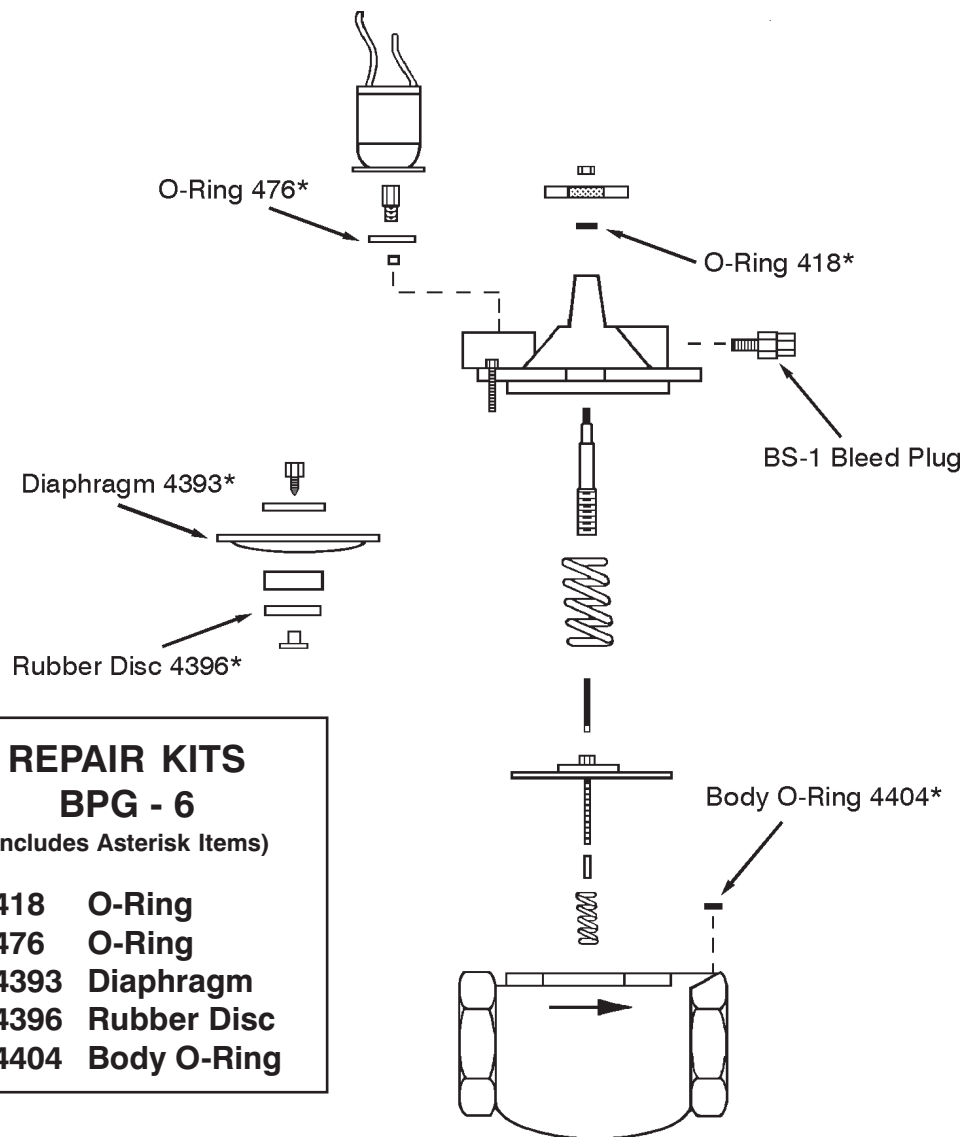
4289 Diaphragm

2" S-Series Electric Valve

Complete Solenoid Assembly

Sol. #4 (24 VAC)

Sol. #6 (110 VAC)



REPAIR KITS

BPG - 6

(includes Asterisk Items)

1	418	O-Ring
1	476	O-Ring
1	4393	Diaphragm
1	4396	Rubber Disc
1	4404	Body O-Ring

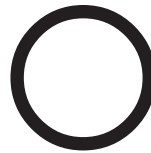
2" S-Series Electric Valve



**4404
Body O-Ring**



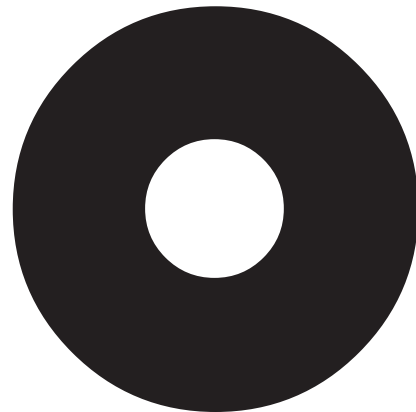
418 O-Ring



476 O-Ring



4393 Diaphragm



**4396
Rubber Disc**

MODEL DW-PRV Installation and Operation Instructions

MODEL DW-PRV

The Griswold Model DW-PRV valve consists of (1) a main valve, (2) a pressure regulating pilot, (3) a solenoid control pilot, (4) a manual on-off pilot, (5) a Schrader valve to allow for downstream pressure measurement, and (6) a manual on-off bleed on the cover.

The DW-PRV valve is a normally closed valve. With its manual on-off pilot in closed position and its solenoid de-energized, the valve remains shut. Energizing the solenoid or opening the manual on-off pilot valve causes the valve to open.

Once open, the valve supplies constant downstream pressure with fluctuating or excessive upstream pressure. Desired downstream pressure is adjustable from 5 to 100 PSI.

A flow stem (cross handle) on the valve is provided for emergency shut off and for reducing closing time of the valve under low flow applications.

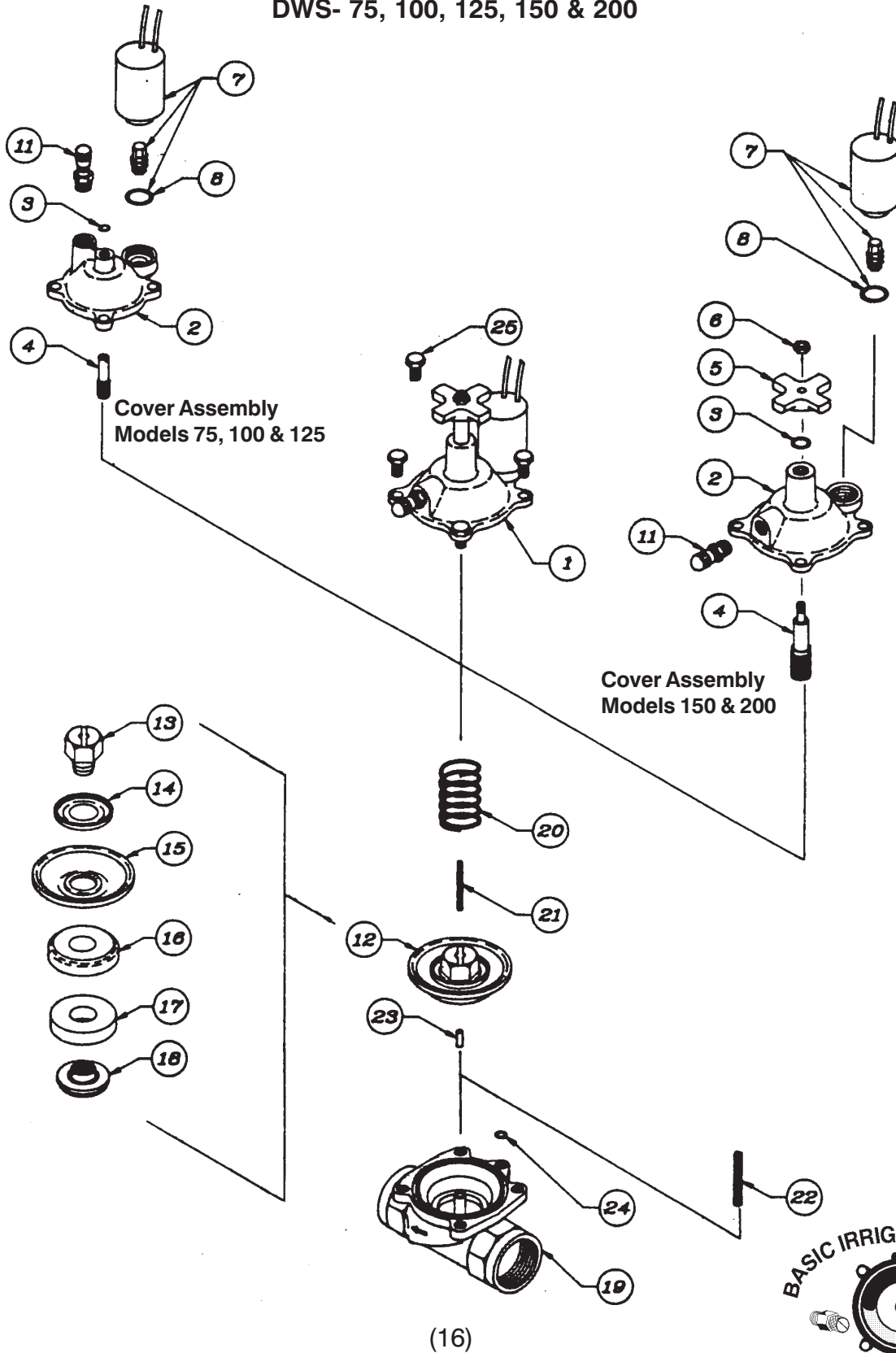
The on-off bleed on the cover of the valve allows for bleeding air out of the cover chamber and activates the valve without pressure regulation (for checking purposes).

REQUIRED TOOLS TO SET THE VALVE

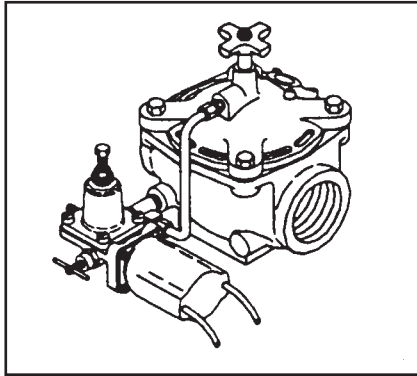
1. Standard Screwdriver.
2. Attach the gauge kit to the Schrader valve.
3. Turn the flow stem on the valve cover all the way out (counter-clockwise).
4. Open the DW-PRV valve by turning its manual on-off pilot counter-clockwise two turns. DO NOT unscrew the bleed screw all the way. If no flow occurs, check for closed valves upstream of the DW-PRV.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) decreases pressure.

NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing conditions.
6. Turn off the DW-PRV valve by shutting off its manual on-off pilot valve. If the valve takes too long to close, turn the flow stem on the valve cover clockwise two turns.
7. Open the valve by energizing its solenoid. After one minute, de-energize the solenoid. The valve should begin to close. If it is too slow, turn the cross handle clockwise 2 or 3 more turns.
8. Disconnect the gauge kit; replace the Schrader cap. The valve is now set for normal operations.

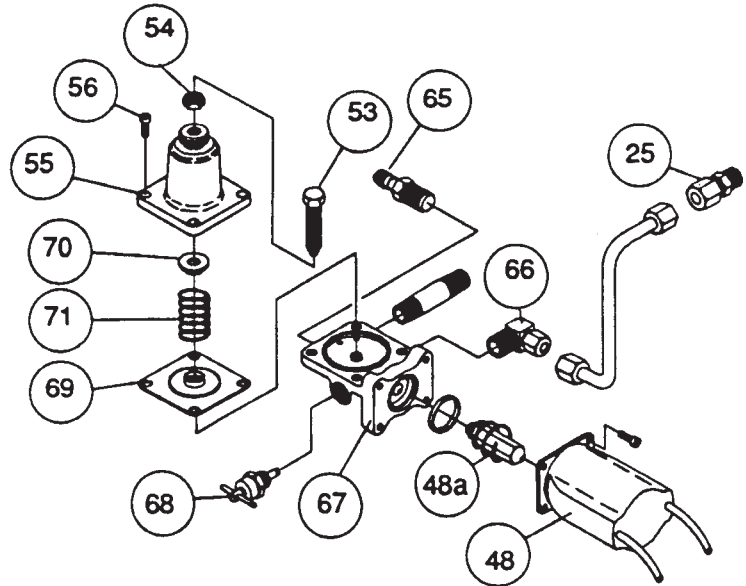
DWS- 75, 100, 125, 150 & 200



VALVE MODEL #2230 & #7230 Solenoid and Pressure Reducing Valve



MODEL #2230 & 7230
For these valves use a basic 4170
and these parts. . .



TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION	
1. Valve fails to open.	Installed backwards.	Check flow arrow.	
	Lack of operating pressure.	Make sure inlet is 2 PSI minimum.	
	Manual flow adjustment stem fully closed.	Open stem.	
	External obstruction in line, such as closed gate valve, etc.	Check other system elements.	
	Valve will not operate electrically.	Check power on, connection, solenoid actuation.	
	Internal foreign matter.	Remove cover, clean valve thoroughly.	
	Internal metering pin left out.	Add metering pin.	
	If after long satisfactory service, check diaphragm assy. wear.	Eliminate other causes then replace assy.	
	2. Valve fails to close.	Ruptured diaphragm.	Replace diaphragm.
		Internal foreign matter.	Remove cover, clean valve thoroughly.
Manual by-pass left open.		Close manual by-pass.	
3. Valve closes too slowly.	Residual electricity on solenoid.	Check controller.	
	Lack of pressure differential across valve.	Partially close flow adjustment stem until valve closes at desired rate.	

INSTALLATION AND MAINTENANCE

1. Valves are shipped with manual flow adjustment stem closed; stem must be opened before installing. Inlet pipe plug installed for straight pattern installation; for angle installation, re-install plug.
2. Flow direction must be as indicated on nameplate.
3. Valve must have minimum inlet pressure of 2 PSI (5 feet). If lower inlet pressure is required, consult factory.
4. Hook up solenoid to proper voltage. Connections must be solid and waterproof.
5. To adjust downstream pressure adjust screw (part #53) on regulator. To increase pressure turn adjustment screw clockwise. To decrease pressure turn adjustment screw counter clockwise.
6. Valve can be installed in any position.
7. Valve can be repaired without removing valve body from system.
8. No normal maintenance is required.

MODEL 2230 AND 7230

The Griswold Model 2230 and 7230 valves consist of (1) a main valve, (2) a pressure regulating pilot, (3) a solenoid control pilot, (4) a manual on-off pilot, and (5) a Schrader valve to allow for downstream pressure measurement.

The 2230 and 7230 valves are normally closed. With their manual on-off pilot in closed position and their solenoid de-energized, the valves remain shut. Energizing the solenoid or opening the manual on-off pilot valve causes these valves to open.

The valve supplies a constant downstream pressure with fluctuating or excessive upstream pressure, when open. Desired downstream pressure may be set anywhere from 5 to 125 PSI.

A flow stem on the valve is provided for emergency shut off and for reducing closing time of the valve in low flow applications.

REQUIRED TOOLS TO SET THE VALVE:

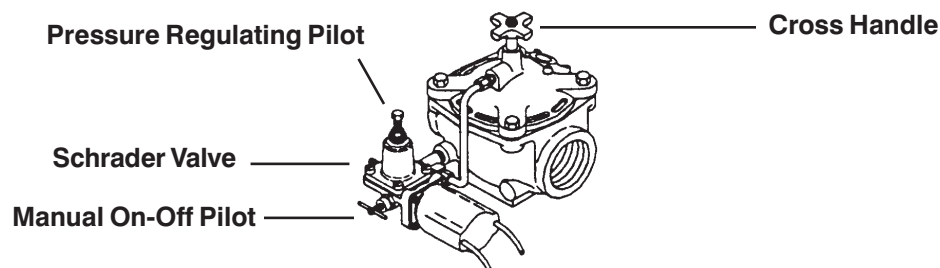
1. Adjustable or 1/2" open, box or socket wrench.
2. 0-150 psi gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

TO SET THE VALVE:

1. Remove the cap from the Schrader valve.
2. Attach the gauge kit to the Schrader valve.
3. Turn the flow stem (cross handle) on the main valve all the way "out" (counter-clockwise).
4. Open the 2230 or 7230 valve by turning its' manual on-off pilot handle counter-clockwise. If no flow occurs, there may be closed valves downstream of the 2230 or 7230 valve. Open the highest flowing valve downstream of the 2230 or 7230 valve. If no flow occurs again, check for closed valves upstream of the 2230 or 7230 valve.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) decreases pressure.

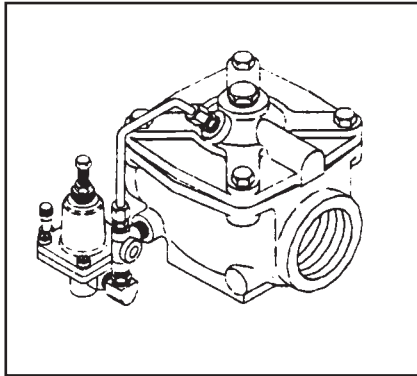
NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing (not static) conditions.

6. Turn off the 2230 or 7230 valve by shutting off its' manual on-off pilot valve. If the valve takes too long to close, turn the flow stem (cross handle) on the main valve clockwise 3 turns.
7. Open the valve by energizing its' solenoid. After one minute, de-energize the solenoid. The valve should begin to close. If it is too slow, turn the cross handle clockwise 2 to 3 more turns.
8. Disconnect the gauge kit; replace the Schrader cap. The valve is now set for normal operations.

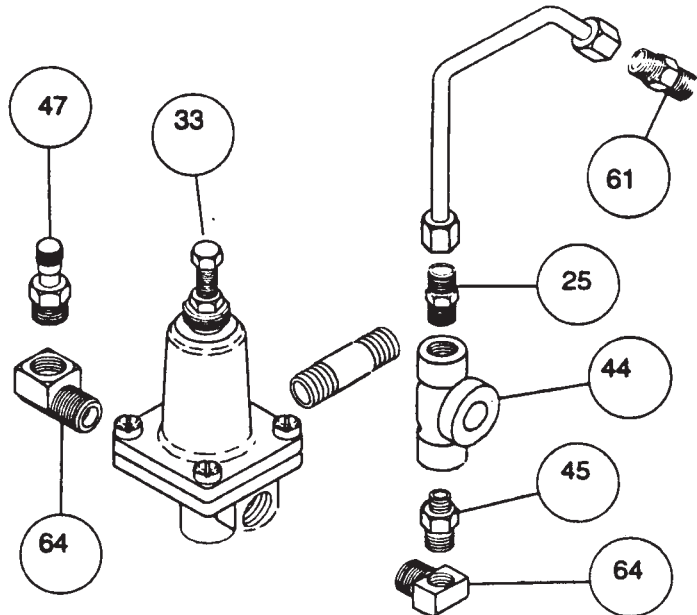


(18)

VALVE MODEL #2280, #4280 & #7230 Pressure Reducing Valve



MODEL #2280 - 4280 - 7280
For the above valves, use a
Basic 4150 and these parts. . .



TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
1. Downstream pressure too low.	Installed backwards.	Check flow arrow.
	Lack of operating pressure.	Make sure inlet is 2 PSI minimum.
	Optional manual flow adjustment stem fully closed.	Open stem.
	External obstruction in line, such as closed gate valve, etc.	Check other system elements.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Restriction in copper tube, such as ends not de-burred or bend in tube.	Repair problem.
	If after long satisfactory service, check diaphragm assy. wear.	Eliminate other causes then replace assy.
2. Downstream pressure too high.	Manual on-off pilot closed.	Turn manual on-off pilot counter clockwise until open.
	Ruptured diaphragm.	Replace diaphragm.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Cover spring left out.	Add cover spring.
	Leak in control line.	Check for leaks and repair.

INSTALLATION AND MAINTENANCE

1. Inlet pipe plug installed for straight pattern installation; for angle installation, re-install plug.
2. Flow direction must be as indicated on nameplate.
3. Valve must have minimum inlet pressure of 2 PSI (5 feet). If lower inlet pressure is required, consult factory.
4. Valve can be installed in any position.
5. Valve can be repaired without removing valve body from system.
6. To adjust downstream pressure adjust screw on regulator, part #33. To increase pressure turn adjustment screw clockwise. To decrease pressure turn adjustment screw counter clockwise.
7. Valve can be closed manually with manual on-off pilot. (Item #44)
8. No normal maintenance is required.

MODEL 2280, 4280 AND 7280

The Griswold Model 2280, 4280 and 7280 valves consist of (1) a main valve, (2) a pressure regulating pilot, (3) a manual on-off pilot, and (4) a Schrader valve to allow for downstream pressure measurement.

The 2280, 4280 and 7280 valves are normally open solenoid valves. With its manual on-off pilot in the open position, the main valve remains open and supplies a constant downstream pressure with fluctuating or excessive downstream pressure. Desired downstream pressure may be set anywhere from 5 to 125 PSI.

These valves can be shut off by turning (clockwise) their manual on-off pilot valve.

REQUIRED TOOLS TO SET THE VALVE:

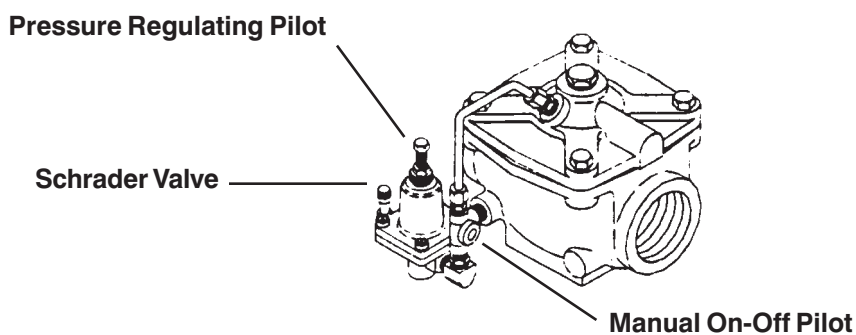
1. Adjustable or 1/2" open, box or socket wrench.
2. 0-150 psi gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

TO SET THE VALVE:

1. Remove the cap from the Schrader valve.
2. Attach the gauge kit to the Schrader valve.
3. Make sure that the manual on-off pilot valve is wide open by turning its handle counter clockwise all the way.
4. Open a valve downstream of the 2280, 4280 or 7280 valve to allow water to flow. If no flow occurs check for valves shut off upstream.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) decreases pressure.

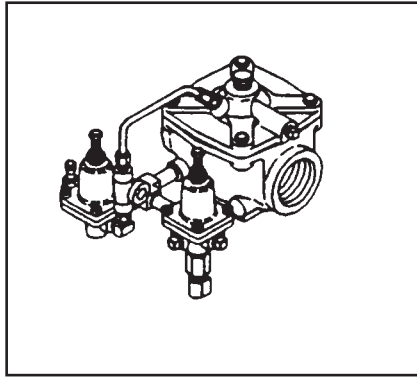
NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing conditions.

6. Disconnect the gauge kit; place cap back on the Schrader valve. The 2280, 4280 or 7280 valve is now set for normal operation.

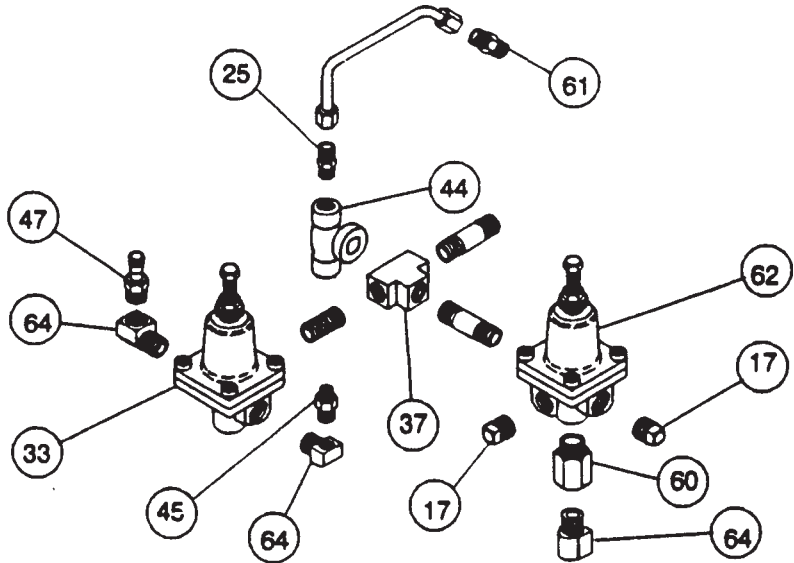


(20)

VALVE MODEL #2285 Pressure Reducing and Surge Anticipation Valve



MODEL #2285
For this valve use a basic
4150 and these parts. . .



TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
1. Downstream pressure too low.	Installed backwards.	Check flow arrow.
	Lack of operating pressure.	Make sure inlet is 2 PSI minimum.
	Manual flow adjustment stem fully closed.	Open stem.
	External obstruction in line, such as closed gate valve, etc.	Check other system elements.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Restriction in copper tube, such as ends not de-burred or bend in tube.	Repair problem.
	If after long satisfactory service, check diaphragm assy. wear.	Eliminate other causes then replace assy.
2. Downstream pressure too high.	Manual on-off pilot closed.	Turn manual on-off pilot counter clockwise until open.
	Ruptured diaphragm.	Replace diaphragm.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Cover spring left out.	Add cover spring.
	Leak in control line.	Check for leaks and repair.

INSTALLATION AND MAINTENANCE

- Inlet pipe plug installed for straight pattern installation; for angle installation, re-install plug.
- Flow direction must be as indicated on nameplate.
- Valve must have minimum inlet pressure of 2 PSI (5 feet). If lower inlet pressure is required, consult factory.
- Valve can be installed in any position.
- Valve can be repaired without removing valve body from system.
- To adjust downstream pressure adjust screw on regulator, part #33. To increase pressure turn adjustment screw clockwise. To decrease pressure turn adjustment screw counter clockwise.
- To adjust surge sensing regulator, part #62. Adjust screw. Set pressure 10 PSI higher than regulating pressure in step #6.
- Valve can be closed manually with bleed screw. (Item #47)
- No normal maintenance is required.

MODEL 2285

The Griswold Model 2285 valve consist of (1) a main valve, (2) a pressure regulating pilot, (3) a surge anticipation pilot, (4) a manual on-off pilot, and (5) a Schrader valve to allow for downstream pressure measurement.

The 2285 valve is a normally open valve. With its manual on-off pilot in the open position, the main valve remains open and supplies a constant downstream pressure with fluctuating or excessive upstream pressure. Desired downstream pressure may be set anywhere from 5 to 125 PSI. When downstream pressure attempts to raise above a pre-set limit, caused by abrupt closure of downstream valves, its surge anticipation pilot will relieve the excess pressure to atmosphere.

The 2285 valve can be shut off by turning (clockwise) its manual on-off pilot valve.

REQUIRED TOOLS TO SET THE VALVE:

1. Adjustable or 1/2" open, box or socket wrench.
2. 0-150 psi gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

TO SET THE VALVE:

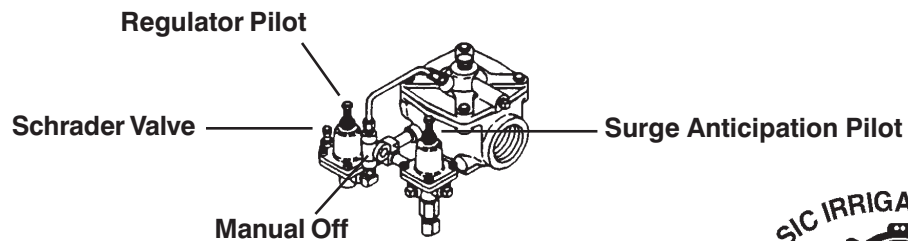
1. Remove the cap from the Schrader valve.
2. Attach the gauge kit to the Schrader valve.
3. Make sure that the manual on-off pilot valve is wide open by turning its handle counter clockwise all the way.
4. Open a valve downstream of the 2285 valve to allow water to flow. If no flow occurs check for valves shut off upstream.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases downstream pressure, "out" (counter-clockwise) decreases pressure.

NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing conditions.

6. Stop flow by closing the valve downstream of the 2285 valve.
7. Slowly turn the adjusting screw on the surge anticipation pilot counter-clockwise until water drips from the opening underneath the surge anticipation pilot. Now turn the adjusting screw clockwise 4 turns.

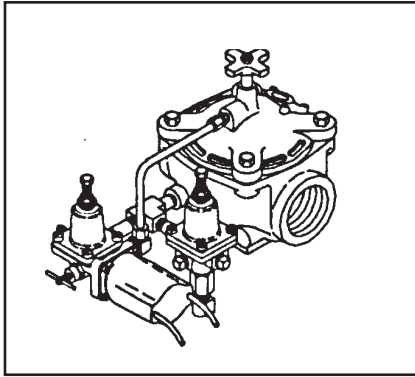
NOTE: Ideally, the surge pilot should be set 15-20 PSI higher than the regulated pressure. Setting the surge control pressure too close the the regulated pressure may cause excessive discharge to atmosphere. To verify surge pressure setting, open and close a valve downstream. The gauge reading under no flow (static) condition is the surge pilot's setting.

8. Disconnect the gauge kit; replace the Schrader cap. The 2285 valve is now set for normal operation.

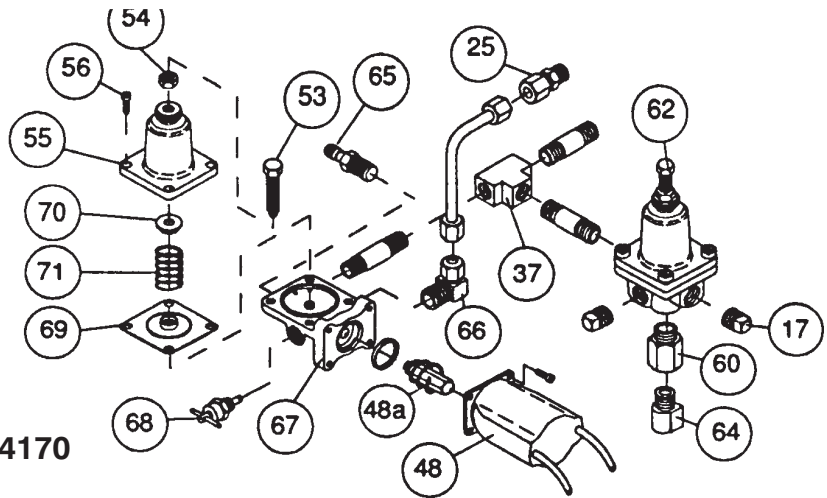


(22)

VALVE MODEL #225 Solenoid and Pressure Reducing, and Surge Anticipation Valve



MODEL #2250
For these valves use a basic 4170
and these parts. . .



TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
1. Valve fails to open.	Installed backwards.	Check flow arrow.
	Lack of operating pressure.	Make sure inlet is 2 PSI minimum.
	Manual flow adjustment stem fully closed.	Open stem.
	External obstruction in line, such as closed gate valve, etc.	Check other system elements.
	Valve will not operate electrically.	Check power on, connection, solenoid actuation.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Internal metering pin left out.	Add metering pin.
	If after long satisfactory service, check diaphragm assy. wear.	Eliminate other causes then replace assy.
	2. Valve fails to close.	Ruptured diaphragm.
Internal foreign matter.		Remove cover, clean valve thoroughly.
Manual by-pass left open.		Close manual by-pass.
3. Valve closes too slowly.	Residual electricity on solenoid.	Check controller.
	Lack of pressure differential across valve.	Partially close flow adjustment stem until valve closes at desired rate.

INSTALLATION AND MAINTENANCE

- Valves are shipped with manual flow adjustment stem closed; stem must be opened before installing. Inlet pipe plug installed for straight pattern installation; for angle installation, re-install plug.
- Flow direction must be as indicated on nameplate.
- Valve must have minimum inlet pressure of 2 PSI (5 feet). If lower inlet pressure is required, consult factory.
- Hook up solenoid to proper voltage. Connections must be solid and waterproof.
- To adjust downstream pressure adjust screw (part #53) on regulator. To increase pressure turn adjustment screw clockwise. To decrease pressure turn adjustment screw counter clockwise.
- To adjust surge sensing regulator, part #62, adjust screw. Set pressure 10 PSI higher than regulating pressure in step #5.
- Valve can be installed in any position.
- Valve can be repaired without removing valve body from system.
- No normal maintenance is required.

MODEL 2250

The Griswold Model 2250 valve consist of (1) a main valve, (2) a pressure regulating pilot, (3) a surge anticipation pilot, (4) a solenoid control pilot, (5) a manual on-off pilot, and (6) a Schrader valve to allow for downstream pressure measurement.

The 2250 valve is normally closed. With its manual on-off pilot in closed position and its solenoid de-energized, the valve remains shut. Energizing the solinoid or opening the manual on-off pilot valve causes these valve to open.

The valve supplies a constant downstream pressure with fluctuating or excessive upstream pressure. Desired downstream pressure may be set anywhere from 5 to 125 PSI. When downstream pressure attempts to raise above a pre-set limit, caused by abrupt closure of downstream valves, the surge anticipation pilot relieves the excess pressure to atmosphere.

A flow stem on the valve is provided for emergency shut off and for reducing closing time of the valve in low flow applications.

REQUIRED TOOLS TO SET THE VALVE:

1. Crescent or 1/2" open, box or socket wrench.
2. 0-150 psi gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

TO SET THE VALVE:

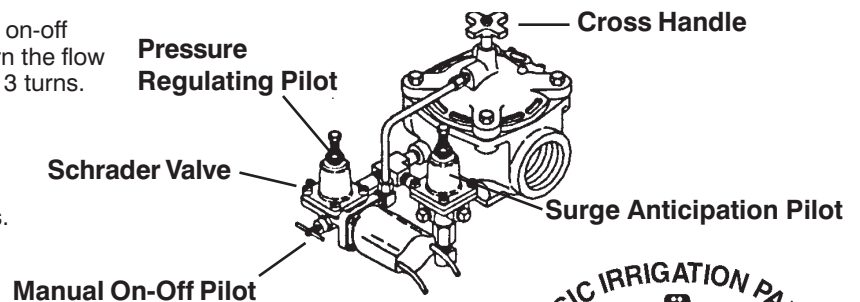
1. Remove the cap from the Schrader valve.
2. Attach the gauge kit to the Schrader valve.
3. Turn the flow stem (cross handle) on the main valve all the way "out" (counter-clockwise).
4. Open the 2250 valve by turning its' manual on-off pilot handle counter-clockwise. If no flow occurs, open the highest flowing valve downstream of the 2250. If no flow occurs again, check for closed valves upstream of the 2250 valve.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) de-creases pressure.

NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing (not static) conditions.

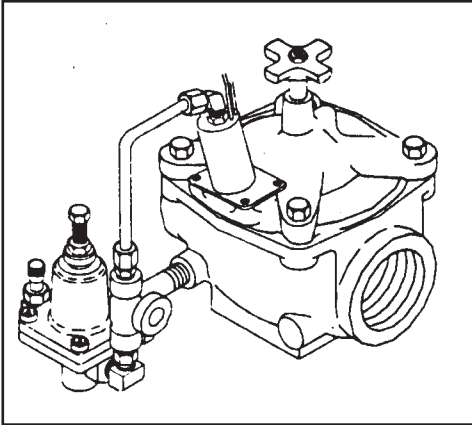
6. Shut off flow by closing the valve downstream of the 2250. Leave the 2250 in the open position.
7. Slowly turn the adjusting screw on the surge anticipation pilot counter-clockwise until water drips form the opening underneath the surge pilot. Now turn the adjusting screw clockwise 4 turns.

NOTE: Ideally, the surge pilot should be set 155-20 PSI higher than the regulated pressure. Setting the surge pilot control pressure too close tothe regulated pressure could cause excessive discharge to atmosphere. To verify the surge pressure setting, open and close a valve downstream. The gauge reading under no flow (static) condition is the surge pilot setting.

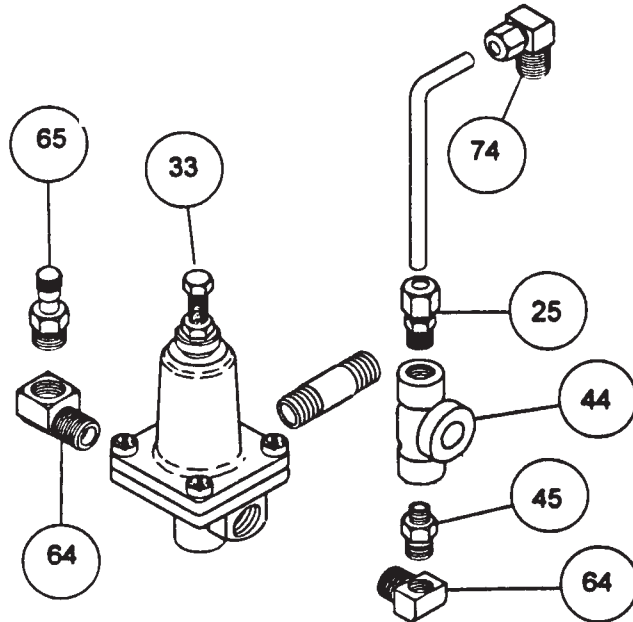
8. Turn off the 2250 valve by shutting off its' manual on-off pilot valve. If the valve takes too long to close, turn the flow stem (cross handle) on the main valve clockwise 3 turns.
9. Open the valve by energizing its' solenoid. After one minute, de-energize the solenoid. The valve should begin to close.If it is too slow, turn the cross handle clockwise 2 to 3 more turns.
10. Disconnect the gauge kit; replace the Schrader cap. The valve is now set for normal operation.



VALVE MODEL #2260 Pressure Reducing Valve



MODEL #2260
For the above valve, use a
Basic 2160 and these parts. . .



TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
1. Downstream pressure too low.	Installed backwards.	Check flow arrow.
	Lack of operating pressure.	Make sure inlet is 2 PSI minimum.
	Optional manual flow adjustment stem fully closed.	Open stem.
	External obstruction in line, such as closed gate valve, etc.	Check other system elements.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Restriction in copper tube, such as ends not de-burred or bend in tube.	Repair problem.
	If after long satisfactory service, check diaphragm assy. wear.	Eliminate other causes then replace assy.
2. Downstream pressure too high.	Ruptured diaphragm.	Replace diaphragm.
	Internal foreign matter.	Remove cover, clean valve thoroughly.
	Cover spring left out.	Add cover spring.
	Leak in control line.	Check for leaks and repair.

INSTALLATION AND MAINTENANCE

- Inlet pipe plug installed for straight pattern installation; for angle installation, re-install plug.
- Flow direction must be as indicated on nameplate.
- Valve must have minimum inlet pressure of 2 PSI (5 feet). If lower inlet pressure is required, consult factory.
- Valve can be installed in any position.
- Valve can be repaired without removing valve body from system.
- To adjust downstream pressure adjust screw on regulator, part #33. To increase pressure turn adjustment screw clockwise. To decrease pressure turn adjustment screw counter clockwise.
- Valve can be closed manually with manual on-off pilot. (Item #44)
- No normal maintenance is required.

MODEL 2260

The Griswold Model 2260 valve consist of (1) a main valve, (2) a pressure regulating pilot, (3) a manual on-off pilot, and (4) a Schrader valve to allow for downstream pressure measurement.

The 2260 valve is a normally open solenoid valve. With its manual on-off pilot in the open position, the main valve remains open and supplies a constant downstream pressure with fluctuating or excessive downstream pressure. Desired downstream pressure may be set anywhere from 5 to 125 PSI.

These valves can be shut off by turning (clockwise) their manual on-off pilot valve.

REQUIRED TOOLS TO SET THE VALVE:

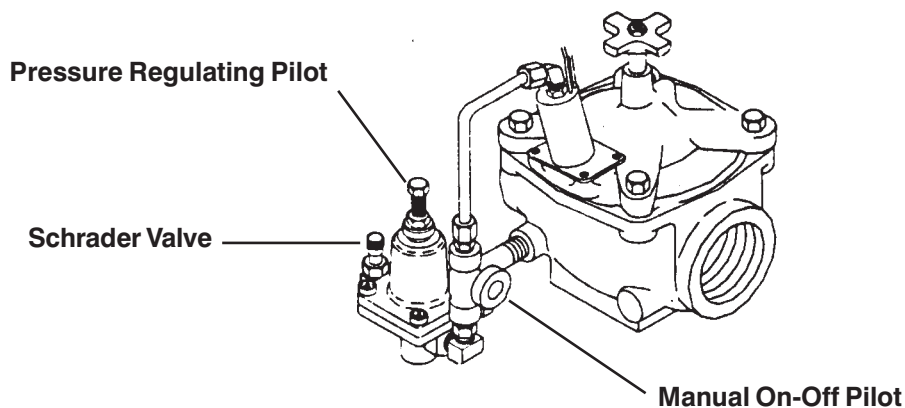
1. Adjustable or 1/2" open, box or socket wrench.
2. 0-150 psi gauge equipped with quick-connect fitting for attachment to tire type (Schrader) valve.

TO SET THE VALVE:

1. Remove the cap from the Schrader valve.
2. Attach the gauge kit to the Schrader valve.
3. Make sure that the manual on-off pilot valve is wide open by turning its handle counter clockwise all the way.
4. Open a valve downstream of the 2260 valve to allow water to flow. If no flow occurs check for valves shut off upstream.
5. With water flowing through the valve, turn the adjusting screw on the regulating pilot until desired downstream pressure is observed on the gauge. Turning the adjusting screw "in" (clockwise) increases pressure, "out" (counter-clockwise) decreases pressure.

NOTE: If turning the adjusting screw clockwise does not increase downstream pressure, upstream pressure may be too low. Check upstream pressure under flowing conditions.

6. Disconnect the gauge kit; place cap back on the Schrader valve. The 2260 valve is now set for normal operation.



(26)