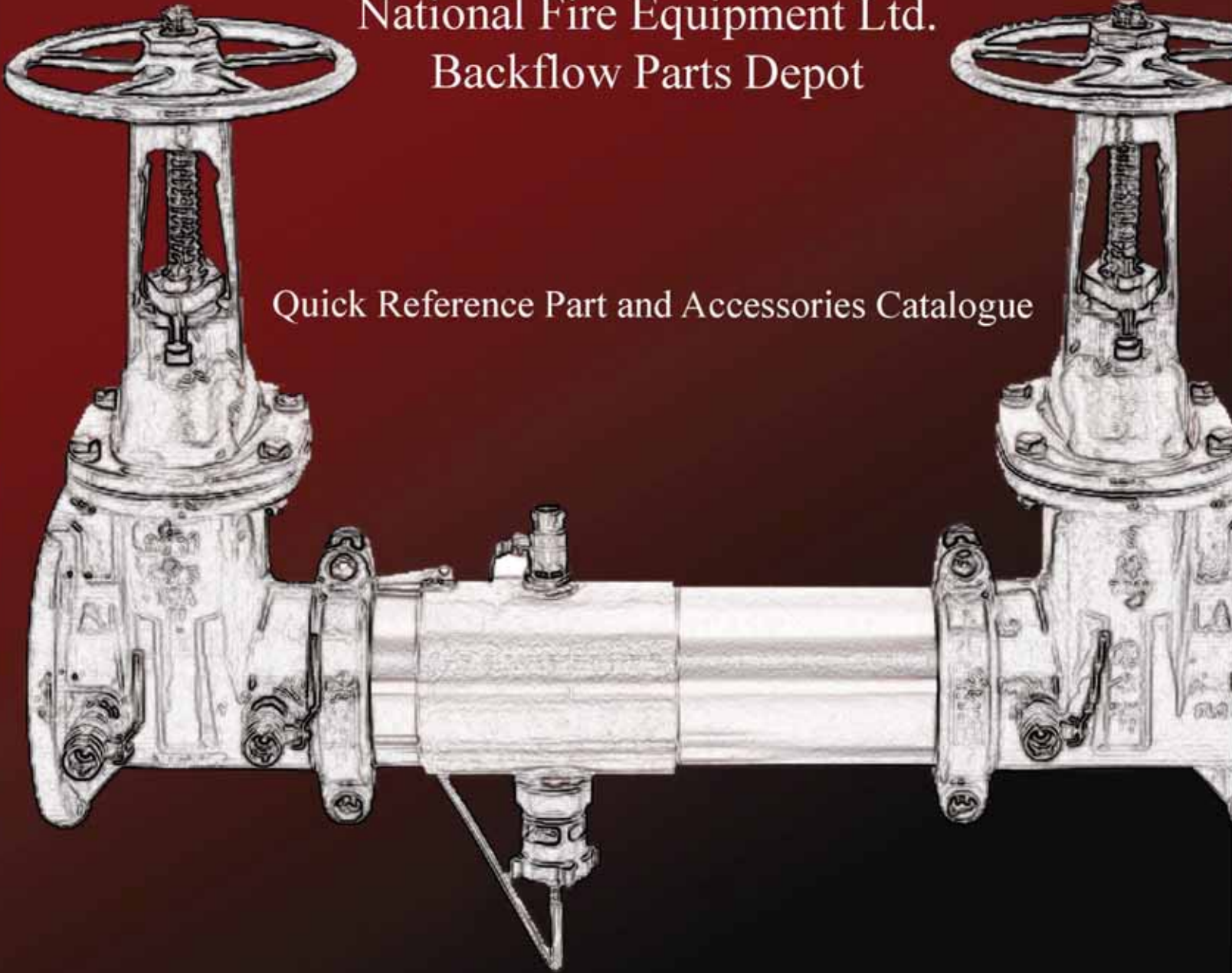




National Fire Equipment Ltd.
Backflow Parts Depot

Quick Reference Part and Accessories Catalogue





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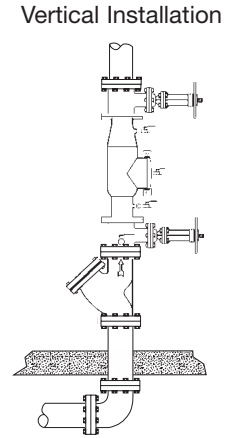
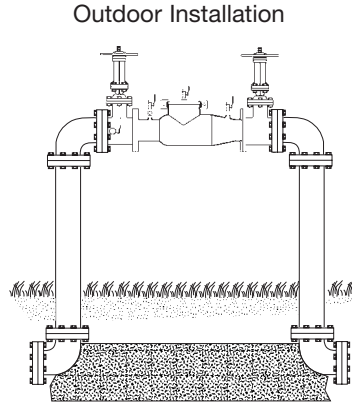
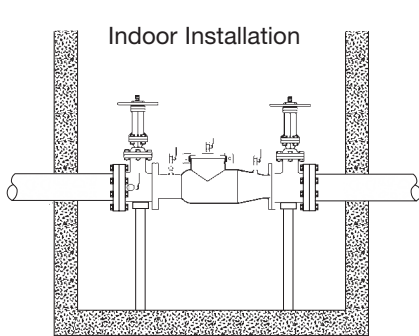
Installation Instructions

Please Read Prior to Installation:

1. Before installing any Ames backflow assembly, flush the line thoroughly to remove all debris, chips and other foreign objects. Failure to do so may make the assembly inoperable.
2. The Ames 2000SS and 3000SS may be placed in any position as long as the flow indicator arrow in the assembly is pointed in the direction of water flow, and the local water authority has approved the installation configuration. ASSE (American Society of Sanitary Engineers) has approved these assemblies for either horizontal or vertical installation.

3. Allow sufficient clearance around the installed assembly to conduct testing, servicing, and inspection. Allow a minimum of 12" from the flood level to the bottom of the assembly.
4. If double check or double check detector assembly is installed in a vault or pit, be sure proper drainage is available. If sufficient drainage is not available a cross-connection may occur.

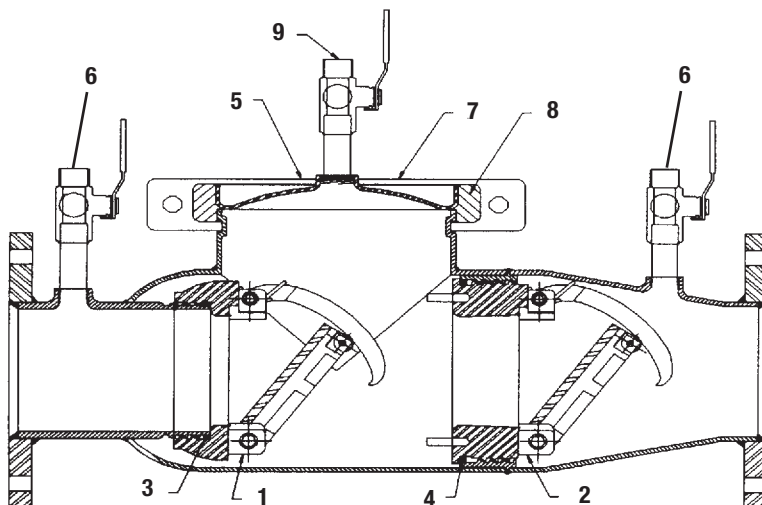
Attention Installer: After installation, please leave this Instruction Sheet for occupant's information.



Detailed Parts Listing

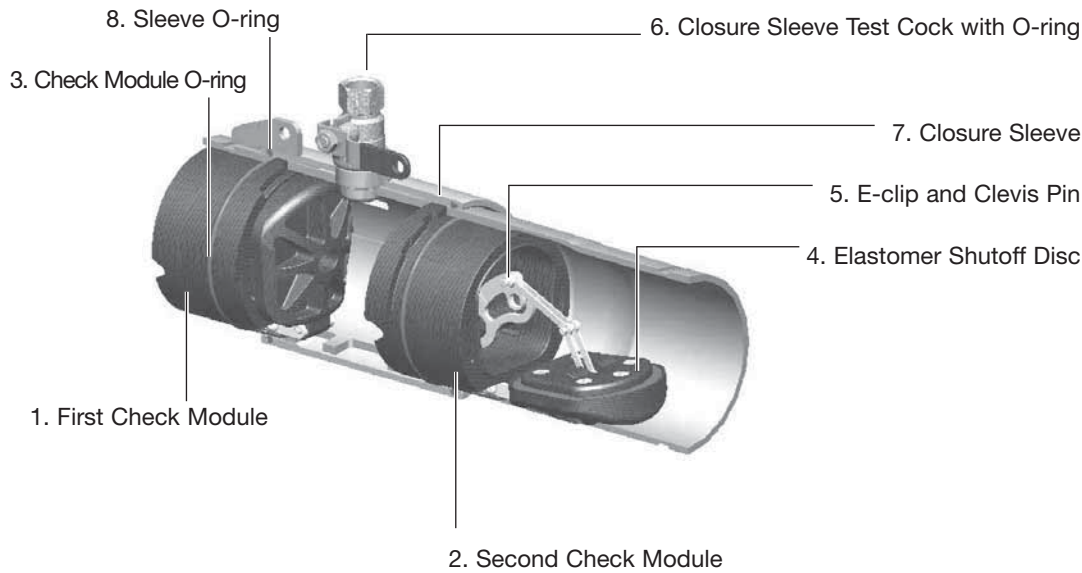
Parts Table #1

Item #	Description	Qty	Ames Part No.					
			2 1/2" (65mm)	3" (80mm)	4" (100mm)	6"SS (150mm)	6"SE (150mm)	8"SE (200mm)
1.	#1 Cam-Check	1	7015559	7015559	7015559	7015564	7015559	7015564
2.	#2 Cam-Check	1	7015560	7015560	7015560	7015565	7015560	7015565
3.	#1 Cam-Check O-ring	1	7015333	7015333	7015333	7013280	7015333	7013280
4.	#2 Cam-Check O-ring	1	7013229	7013229	7013229	7013281	7013229	7013281
5.	Cover Plate	1	7013241	7013241	7013241	7013289	7013474	7013289
6.	Ball Valve	2	A000449	A000449	A000449	A000449	A000449	A000449
7.	Groove Coupler	1	7013194	7013194	7013194	7013287	7013194	7013287
8.	Groove Coupler Gasket	1	7013248	7013248	7013248	7013308	7013248	7013308
9.	Ball Valve (Cover)	1	A603134	A603134	A603134	7013034	7013034	7013034





Replacement Parts Listing



ITEM NO.	PART DESCRIPTION	2 1/2" (65mm)	3" (80mm)	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)
1	FIRST CHECK MODULE (RED SILICONE) ^a	7018111	7018111	7018111	7018114	7018117	7018399
2	SECOND CHECK MODULE (RED SILICONE)	7018113	7018113	7018113	7018116	7018119	7018400
3	CHECK MODULE O-RING	7017861	7017861	7017861	7017910	7013301	7018352
4	ELASTOMER SHUTOFF DISC (RED SILICONE)	7017855	7017855	7017855	7017903	7017928	7018348
5	GROOVED CLEVIS PIN KIT (CONTAINS: "E" CLIP & CLEVIS PIN) 5 PER PACK	7018126	7018126	7018126	7018127	7018127	7018412
6	CLOSURE SLEEVE TEST-COCK WITH O-RING #3	7018152	7018152	7018152	7018153	7018153	7018153
7	CLOSURE SLEEVE	7017880	7017880	7017880	7017882	7017884	7017886
8	SLEEVE O-RING or GASKET (2 REQ'D)	7017896	7017896	7017896	7017921	7017944	7018339
NS	CHECK REPAIR KIT (CONTAINS: O-RING, RED SILICONE SHUTOFF DISC & "E" CLIP)	7018123	7018123	7018123	7018124	7018125	7018414
NS	TEST COCK, .50 FPT X FPT WITH NIPPLE	7018394	7018394	7018394	N/A	N/A	N/A
NS	TEST COCK, .75 FPT X FPT WITH NIPPLE	N/A	N/A	N/A	7018395	7018395	7018395
NS	"E" CLIP	7017870	7017870	7017870	7017821	7017821	7017974
NS	GROOVE COUPLER (SHUTOFF)	7017994	7017995	7018147	7018148	7018149	7018070
NS	GROOVE COUPLER GASKET	7018882	7018883	7018884	7013248	7013308	N/A
NS	SLEEVE COUPLER ASSEMBLY	N/A	N/A	N/A	N/A	7018122	7018413
NS	O-RING, #3 TEST COCK	7017897	7017897	7017897	7017897	7017897	7017897
NS	STAINLESS STEEL CHECK RETAINER	7018408	7018408	7018408	7018409	7018410	7018411



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Control Valves- 18550 Hansen Road • Houston, TX 77075 • T: 713-943-0688 • F: 713-944-9445

Canada: 5435 North Service Rd. • Burlington, ONT. L7L 5H7 • T: 905-332-4090 • F: 905-332-7068



Detailed Parts Listing

Parts Table #1		Ames Part No.				
Item #	Description	Qty	2 1/2" (65mm)	3" (80mm)	4" (100mm)	6"SS (150mm)
1.	#1 Cam-Check	1	7015561	7015561	7015561	7015566
2.	#2 Cam-Check	1	7015560	7015560	7015560	7015565
3.	#1 Cam-Check O-ring	1	7015333	7015333	7015333	7013280
4.	#2 Cam-Check O-ring	1	7013229	7013229	7013229	7013281
5.	Cover Plate	1	7013241	7013241	7013241	7013289
6.	Ball Valve	2	7014668	7014668	7014668	7014668
7.	Groove Coupler	1	7013194	7013194	7013194	7013287
8.	Groove Coupler Gasket	1	7013248	7013248	7013248	7013308
9.	Relief Valve (Complete assembly)	1	7013354	7013354	7013354	7013354
10.	Relief Valve Hose	1	7013343	7013343	7013343	7013343
11.	Relief Valve Body O-ring	1	A400084	A400084	A400084	A400084
12.	Ball Valve (Cover)	1	A603134	A603134	A603134	7013034

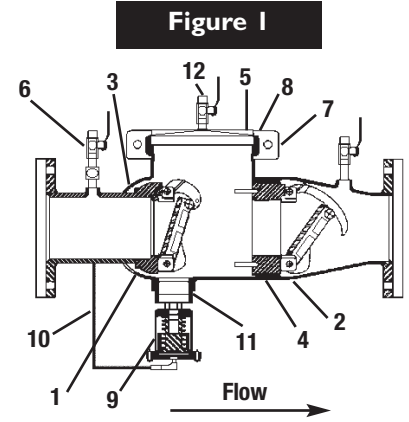


Figure 2

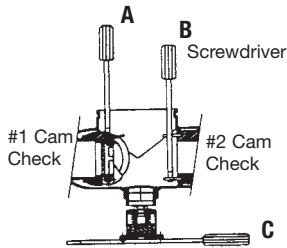


Figure 3

#1 Cam Check
2 1/2" - 6" (65-150mm) RP (Short Cam)

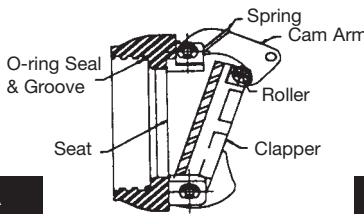


Figure 4

#2 Cam Check DC & RP

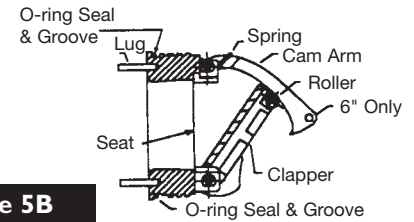


Figure 5A

Cam Bar Open Pin

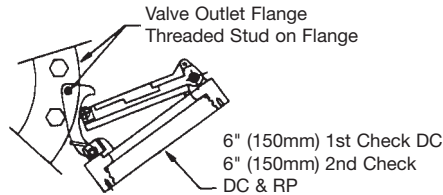


Figure 5B



Maintenance Instructions

NOTE: Ames assemblies require minimum maintenance. All assemblies must be retested once maintenance has been performed. Before servicing be certain shutoff valves are closed.

Removing Cam-Checks

- Shut down water system and lock out system if possible. Slowly open all ball valves to relieve air and water pressure. Loosen bolts on groove coupler and remove groove coupler and cover plate from valve body.
- Remove #1 Cam-Check Assembly by using your hands to unscrew (turn counter-clockwise) Cam-Check and remove through top access port. **Do not use Cam Arm as a handle to unscrew Cam-Check.** If Cam-Check cannot be loosened by hand, insert a long screwdriver between valve body and Cam-Check (see figure 3). Gently apply pressure against the Cam-Check until loosened. Finish unscrewing by hand. Unscrew #2 Cam-Check (turn counter-clockwise) by placing a long screwdriver across lugs and applying pressure to loosen #2 Cam-Check. Finish unscrewing by hand.
- To clean #1 Cam-Check (except 2 1/2" - 4" (65-100mm) DC Check), locate the Cam Arm opening stud on the outlet flange of the valve assembly. Slide the Cam Arm over the

stud with the check threads facing downward (figure 5A). Tighten 1/4" nut on stud to secure cam bar. Slowly pull the assembly outward to open check allowing exposure of the seat and clapper contact area for cleaning. To clean #2 Cam-Check, lift Cam Arm and hold in open position. Raise clapper so that the end of the Cam Arm rests between roller and clapper (figure 5B). Thoroughly clean the seat area and clapper sealing surfaces of both Cam-Checks. Rinse Cam-Checks and O-rings thoroughly. Inspect seats, clapper sealing surfaces, Cam Arms, and O-rings for damage, nicks, and debris. If not damaged, gently close the clapper. If damaged, install a new Cam-Check assembly and/or O-ring or shutoff disc.

- Before reinstallation of check assembly, thoroughly clean O-ring groove and lubricate with F.D.A. approved lubricant. Insert and thread #2 Cam-Check first and then #1 Cam-Check. #2 Cam-Check should be tightened by inserting a long screwdriver between lugs to tighten firmly (see figure 2). Do not over tighten. Tighten #1 Cam-Check firmly by hand only. Replace cover plate, clean groove coupler gasket and groove. Replace groove coupler. Close ball valves. Repressurize and bleed air from all test cocks.



Relief Valve Service Instructions

1. The relief valve may be serviced while on or off the backflow preventer valve.
2. **Note: Do not use a pipe wrench to remove the relief valve assembly from the backflow preventer.**
3. Shut down water system.

Relief Valve Disassembly

1. Disconnect the relief valve hose from the elbow in the bottom flange cover at the swivel hose connection. Do not remove the elbow.
2. If the valve is to be removed from the backflow preventer for service, place a screw driver blade or flat bar across the edges of (2) of the hex head screws in the bottom flange cover and turn counter-clockwise to loosen the relief valve assembly. (see Figure 2)
3. Remove the (4) bottom bolts from the bottom of the relief valve assembly with a $\frac{5}{16}$ " socket or open-end wrench. Remove the bottom flange cover.
4. Remove the piston assembly & sleeve from the relief valve body by placing your index fingers through the slots in the side of the body and pressing down on the top of the disc retainer in the top of the piston assembly. (See Figure 7.)
5. Pull the piston assembly free of the body by grasping the sleeve and pulling down.
6. Grip the sleeve and the piston assembly by the head of the hex head bolt. Pull up on the sleeve to extend the diaphragm. Slide the sleeve (Part #7013340) completely off of the diaphragm and inspect the diaphragm for tears, holes or excessive wrinkles. If the diaphragm is damaged, order a new piston/diaphragm assembly.

Relief Valve Reassembly

1. Thoroughly clean all inside surfaces of the relief valve body.
2. Inspect the relief valve body seat surface located at the top edge of the (3) discharge slots near the top of the body by rubbing the end of the index finger around the entire seat surface; access the seat surface through the slots or the bottom of the body. The seat must be free of nicks. If nicks are discovered, remove the body & install a new relief valve assembly.
3. Position the diaphragm on the piston assembly so that it is facing up as shown in Figure 8.
4. Now fold the top (ribbed) edge of the diaphragm inward, grasp the sleeve with the ribbed edge up and slide the sleeve down over the piston assembly as shown in Figure 8.
5. While still holding the sleeve, slide it up over the diaphragm and, using your thumb & index finger, position the bead of the diaphragm so that it wraps over the outside of the rib on the top of the sleeve so that the sleeve is held by the diaphragm. Now place the piston assembly on a flat, firm surface with diaphragm facing up as shown in Figure 9.
6. Cup your hand slightly to form an air trap and force the sleeve down over the piston assembly with a rapid slap (hard) on the open end of the diaphragm with your cupped

hand. The trapped air in the diaphragm will force the diaphragm between the inside of the sleeve and the outside of the piston. Ensure that the diaphragm is fully seated by running the end of a dull "butter" knife in the formed diaphragm. If diaphragm is wrinkled, repeat previous step.

7. Slide the piston assembly and sleeve into the relief valve body with the hex head bolt entering the flanged end of the body first. Slide the piston assembly in until the diaphragm lip is smoothly seated in the machined groove in the flanged end of the body. By running your index finger around the outside of the diaphragm bead, you will ensure it is seated smoothly.
8. Position the bottom flange cover on the bottom of the relief valve body and secure by hand tightening the (4) bottom bolts.
9. Now tighten the (4) bottom bolts to approximately 15 ft.-lbs. with a $\frac{5}{16}$ " socket or open-end wrench.
10. Reattach the relief valve hose to the elbow in the bottom flange cover.

Figure 6

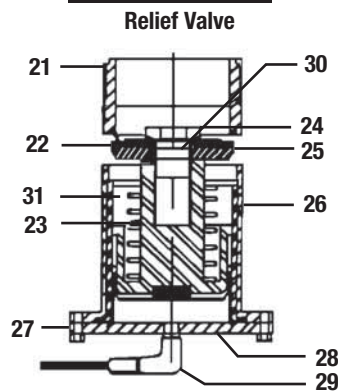


Figure 7

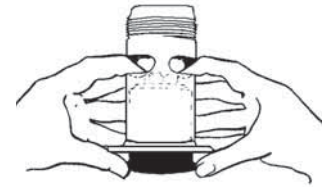
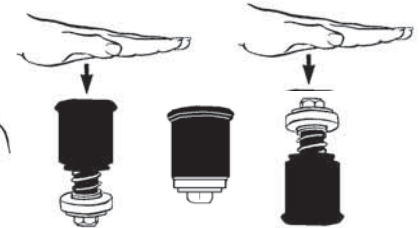


Figure 8



Figure 9

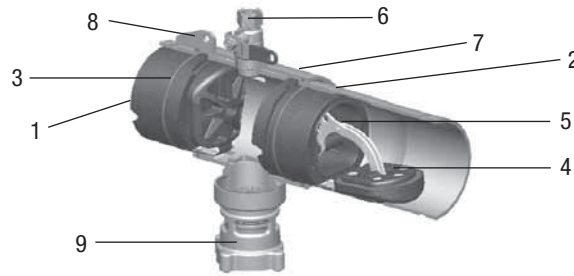


Parts Table #2

Item #	Part Description	Qty	Ames Part No.
21.	Relief Valve Body	1	7013337
22.*	Rubber Shut-Off Disc.	1	7013330
23.*	Piston Diaphragm Assembly	1	7013352
24.	Hex Head Bolt	1	7013326
25.	Disc Retainer	1	7013328
26.	Sleeve	1	7013340
27.	Bottom Bolt	1	7012545
28.	Bottom Flange (w/St. Elbow)	1	7013339
29.	Elbow St 90 3/8	1	A403609
30.*	O-Ring Disk	2	7013327
31.	RV Spring	1	7013368
Not Shown - RV Rubber Kit (Includes * Items and Body O-Ring.)			7018897



Replacement Parts Listing

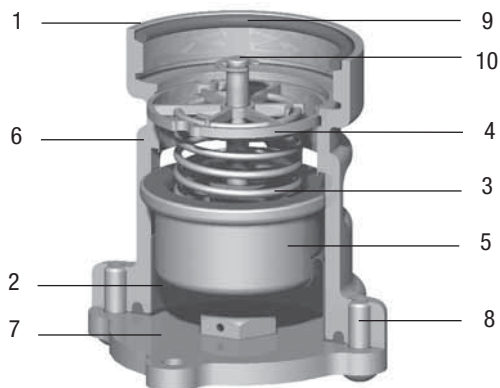


ITEM NO.	DESCRIPTION	ORDERING CODE 2½" (65MM)	ORDERING CODE 3" (80MM)	ORDERING CODE 4" (100MM)
1.	First Check Module (EPDM)	7018112	7018112	7018112
1.	First Check Module (Red Silicone)	7018760	7018760	7018760
2.	Second Check Module (a) (EPDM)	7018120	7018120	7018120
2.	Second Check Module (a) (Red Silicone)	7018764	7018764	7018764
3.	O-ring, Check Module	7017861	7017861	7017861
4.	Disc, Elastomer Shut Off (EPDM)	7018329	7018329	7018329
4.	Disc, Elastomer Shut Off (Red Silicone)	7017855	7017855	7017855
5.	Grooved Clevis Pin Kit (Contains: "E" Clip & Clevis Pin - 5 per pack)	7018126	7018126	7018126
6.	Closure Sleeve Test-Cock with O-ring	7018152	7018152	7018152
7.	Closure Sleeve	7017881	7017881	7017881
8.	Sleeve O-ring or Gasket (2 req'd)	7017896	7017896	7017896
9.	Relief Valve Assembly (Hose included)	7018107	7018107	7018107
NS	Check Repair Kit (Contains: O-ring, Shutoff EPDM Disc & "E" clip)	7018391	7018391	7018391
NS	Check Repair Kit (Contains: O-ring, Shutoff Red Silicone Disc & "E" clip)	7018123	7018123	7018123
NS	"E" Clip	7017870	7017870	7017870
NS	Test Cock, .50 FPT x FPT with Nipple	7018394	7018394	7018394
NS	Test Cock, .75 FPT x FPT with Nipple	N/A	N/A	N/A
NS	Groove Coupler (Shutoff)	7017994	7017995	7018147
NS	Groove Coupler Gasket	7018882	7018883	7018884
NS	Sleeve Coupler Assembly	N/A	N/A	N/A
NS	Air Gap Drain	7018367	7018367	7018367
NS	Splash Guard (only)	7018894	7018894	7018894
NS	O-ring, #3 Test Cock	7017897	7017897	7017897
NS	Stainless Steel Check Retainer	7018408	7018408	7018408

ITEM NO.	DESCRIPTION	ORDERING CODE 6" (150MM)	ORDERING CODE 8" (200MM)	ORDERING CODE 10" (250MM)
1.	First Check Module (EPDM)	7018115	—	—
1.	First Check Module (Red Silicone)	7018761	7018118	7018401
2.	Second Check Module (a) (EPDM)	7018121	—	—
2.	Second Check Module (a) (Red Silicone)	7018765	7018119	7018402
3.	O-ring, Check Module	7017910	7013301	7018352
4.	Disc, Elastomer Shut Off (EPDM)	7017903	—	—
4.	Disc, Elastomer Shut Off (Red Silicone)	7017903	7017928	7018348
5.	Grooved Clevis Pin Kit (Contains: "E" Clip & Clevis Pin - 5 per pack)	7018127	7018127	7018412
6.	Closure Sleeve Test-Cock with O-ring	7018153	7018153	7018153
7.	Closure Sleeve	7017883	7017885	7017887
8.	Sleeve O-ring or Gasket (2 req'd)	7017921	7017944	7018339
9.	Relief Valve Assembly (Hose included)	7018107	7018107	7018107
NS	Check Repair Kit (Contains: O-ring, Shutoff EPDM Disc & "E" clip)	7018392	—	—
NS	Check Repair Kit (Contains: O-ring, Shutoff Red Silicone Disc & "E" clip)	7018124	7018125	7018414
NS	"E" Clip	7017821	7017821	7017974
NS	Test Cock, .50 FPT x FPT with Nipple	N/A	N/A	N/A
NS	Test Cock, .75 FPT x FPT with Nipple	7018395	7018395	7018395
NS	Groove Coupler (Shutoff)	7018148	7018149	N/A
NS	Groove Coupler Gasket	7013248	7013308	N/A
NS	Sleeve Coupler Assembly	N/A	7018122	7018413
NS	Air Gap Drain	7018367	7018367	7018367
NS	Splash Guard (only)	7018894	7018894	7018894
NS	O-ring, #3 Test Cock	7017897	7017897	7017897
NS	Stainless Steel Check Retainer	7018409	7018410	7018411



Relief Valve Replacement Parts Listing



ITEM NO.	DESCRIPTION	ORDERING CODE
1.	Relief Valve Assembly	7018107
2.	Diaphragm, RV	7017809
3.	Spring, RV	7013368
4.	Spider Bushing, RV	7017811
5.	Piston Assembly, RV*	7018227
6.	Body, RV	7018889
7.	Hose & Cover Plate Assembly	7018228
8.	Screw, Cover RV	7017822
9.	O-ring, Inlet coupler	7017826
10.	'E' Clip (5 per pack)	7017870
NS	Sensing Elbow	7018888

ITEM NO.	DESCRIPTION	USE FOR	ORDERING CODE
NS	Hose (1/2"x20")	2 1/2" & 3 M400, M500	7018890
NS	Hose (1/2"x24")	2 1/2" & 3 M400 N & Z	7018891
NS	Hose (1/2"x30")	6 M400, 2.5, 3, 4 M500, 2 1/2", 3, 4 M400 N & Z, 2 1/2", 3, 4 M500 N & Z, 2 1/2" & 3 M500 N & Z BFG	7018892
NS	Hose (1/2"x36")	8 & 10 M400, 6, 8, 10 M400 N & Z, 4 & 6 M400BFG N & Z, 6, 8, 10 M500, 6, 8, 10 M500 N & Z, 4 & 6 M500BFG N & Z	7018893

*includes shutoff disc

Troubleshooting Guide

Difficulty	Possible Cause	Correction
Relief valve discharges water while system is not flowing	#1 check is fouled	Remove and clean #1 check
	Relief valve does not properly close	Service relief valve
	Municipal water pressure is fluctuating	Install check valve upstream of backflow assembly
Relief valve does not shut off properly	Fouled relief valve seat	Service relief valve
	Incorrectly installed diaphragm	Remove diaphragm and correctly install
	Damaged rubber surface on piston	Replace with new piston
	Damaged or plugged pressure hose	Repair or replace hose.



40-100

Double Check Backflow Preventer

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	
			3/4" & 1"	1-1/4", 1-1/2", 2"
1	Body	1	Consult Factory	Consult Factory
2	Cap	2	F-310805*	F-311505**
n/s	Plug	2	K-301200*	K301900**
3	Spring	2	A-170000	A-170100
4	Poppet	2	K-336200	K-336700
5	Seat Disc	2	D-250300	D-250800
6	Seat Retainer	2	D-249900	D-250900
7	Screw	2	B-175000	B-175000
8	Cap O-Ring	2	D-250000	D-251000
9	Test Cock	3	78-257-01	78-258-01
10	Check Seat	2	L-486400	L-486600
11	Check O-Ring	2	D-227400	D-256500

Repair Kits

Major Repair Kit

(4 (2), 5 (2), 6 (2), 7 (2), 8 (2),
10 (2), 11 (2)), n/s packet lube

40-004-A5

40-007-A5

Check Valve Repair Kit

(4, 5, 6, 7, 8, 10, 11), n/s packet lube

40-004-A2

40-007-A2

Rubber Repair Kit

(5 (2), 8 (2), 11 (2)), n/s packet lube

40-004-A6

40-007-A6

Replaceable Seat Kit

(10 (2), 11 (2)), n/s packet lube

40-004-A8

40-007-A8

Accessories

Double Check Valve Test Kit

40-200-TKU (3-Valve)

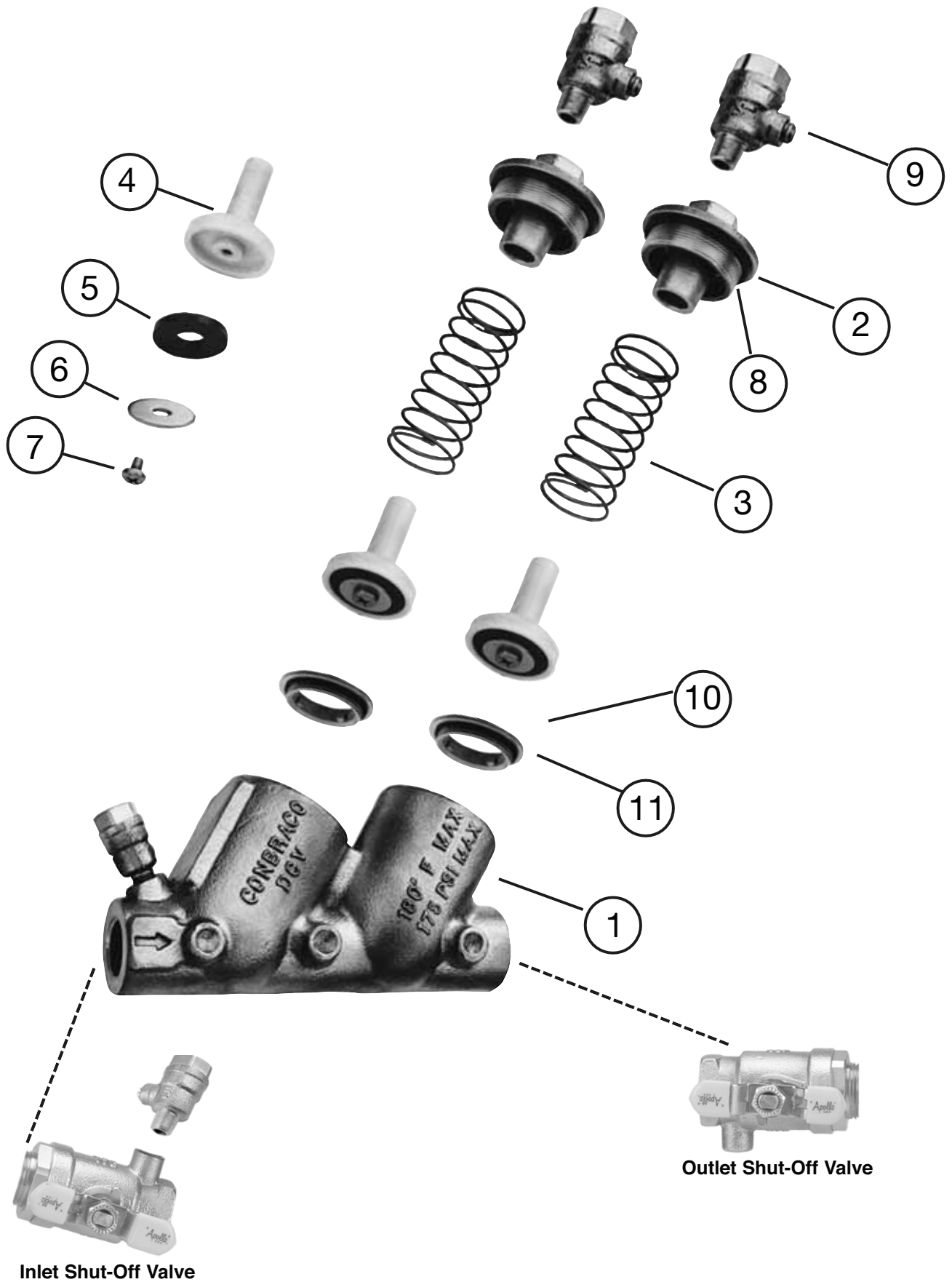
40-200-TK5U (5-Valve)

* 1/8" NPT plug needed for units without top mounted test cocks.

** 1/4" NPT plug needed for units without top mounted test cocks.



Parts Listing 3/4" - 2" (Bronze) Top Entry





DCV Parts List

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.		
			2-1/2"	3"	4"
1	Shut-Off Valve (OS&Y)	2	W-6789-00	W-6790-00	W-6824-00
1	Shut-Off Valve (NRS)	2	W-6785-00	W-6786-00	W-6743-00
1	Shut-Off Valve (Ball)	2	6Q-209-01	6Q-200-01	6Q-20A-01
2	Brass Nipple	1	K-3406-00	K-3406-00	K-3406-00
3	Test Cock	1	70-103-01	70-103-01	70-103-01
7	Body	1	Q-4526-19	Q-4527-19	Q-4534-19
10	C.V. Seat O-Ring	2	D-2576-00	D-2567-00	D-2573-00
11	C.V. Seat	2	L-4637-05	L-4637-05	L-4640-05
12	C.V. Stem	2	G-3239-06	G-3239-00	G-3242-00
13	C.V. Stem O-Ring	2	D-2561-00	D-2561-00	D-2561-00
14	Retainer Nut	2	C-1756-00	C-1756-00	C-1756-00
15	Retainer Washer	2	E-2199-00	E-2199-00	E-2204-00
16	C.V. Seat Disc	2	D-2560-00	D-2560-00	D-2572-00
17	Seat Disc Holder	2	F-3000-05	F-3000-05	F-3001-05
18	1st Check Spring	1	A-1741-00	A-1741-00	A-1744-00
19	2nd Check Spring	1	A-1741-00	A-1741-00	A-1744-00
20	Spring Retainer	2	E-2198-05	E-2198-05	E-2202-05
21	Jam Nut	2	C-1589-05	C-1589-05	C-1589-05
22	Cap O-Ring	2	D-2566-00	D-2566-00	D-2574-00
23	C.V. Cap	2	Q-4530-19	Q-4530-19	Q-4533-19
24	Cap Bolt	12	B-1797-00	B-1797-00	B-1801-00
25	Test Cock	3	70-803-10	70-803-10	70-803-10

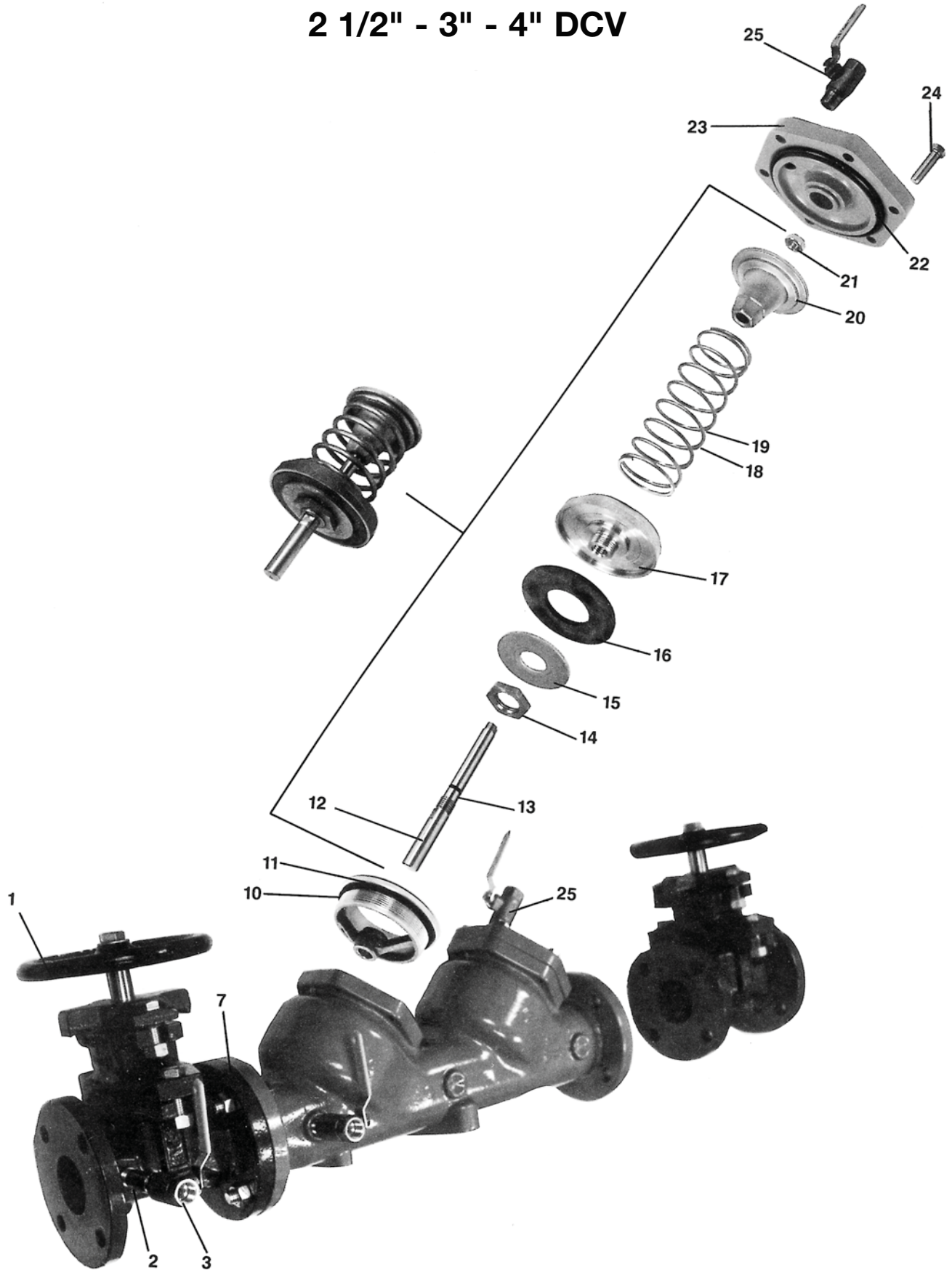
Repair Kits

<u>1st Check Valve Repair Kit</u>	40-009-02	40-009-02	40-00A-02
(12, 13, 14, 15, 16, 17, 18, 20, 21, 22), n/s packet lube			
<u>Seat Repair Kit</u>	40-009-03	40-009-03	40-00A-03
(10, 11, 22), n/s packet lube			
<u>Rubber Repair Kit</u>	40-009-04	40-009-04	40-00A-04
2 each (10, 13, 16, 22), n/s packet lube			



Parts Listing 2-1/2" - 10" (Ductile Iron)

2 1/2" - 3" - 4" DCV





DCV Parts List

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.		
			6"	8"	10"
1	Shut-Off Valve (OS&Y)	2	W-6825-00	W-6826-00	W-6859-00
1	Shut-Off Valve (NRS)	2	W-6744-00	W-6827-00	W-6858-00
1	Shut-Off Valve (Ball)	2	6Q-20C-01	6Q-20E-01	N/A
2	Brass Nipple	1	K-3412-40	K-3412-00	K-3412-00
3	Test Cock	1	70-104-10	70-104-10	70-104-10
6A	Stud	2	N/A	N/A	B-2036-00
7	Body	1	Consult Factory	Consult Factory	Consult Factory
7A	Body	1	Consult Factory	Consult Factory	Consult Factory
10	C.V. Seat O-Ring	2	D-2576-00	D-2589-00	D-2588-00
11	C.V. Seat	2	L-4644-05	L-4653-05	L-4759-05
12	C.V. Stem	2	G-3246-00	G-3273-00	G-3305-00
13	C.V. Stem O-Ring	2	D-2578-00	D-2587-00	D-2587-00
14	Retainer Nut/Bolt	***	C-1760-00	B-1754-00	B-1754-00
15	Retainer Washer	2	E-2205-00	E-2208-00	E-2229-00
16	C.V. Seat Disc	2	D-2575-00	D-2586-00	D-2649-00
17	Seat Disc Holder	2	F-3002-05	F-3008-05	F-3019-05
18	1st Check Spring	1	A-1746-00	A-1748-00	A-1779-00
19	2nd Check Spring	1	A-1746-00	A-1748-00	A-1779-00
20	Spring Retainer	2	E-2203-05	E-2207-05	E-2228-05
21	Jam Nut	2	C-1706-00	C-1763-00	C-1763-00
22	Cap O-Ring	2	D-2577-00	D-2588-00	D-2651-00
23	C.V. Cap	2	Q-4537-19	Q-4545-19	Q-4574-19
24	Cap Bolt	****	B-1800-00	B-1690-00	B-1881-00
25	Test Cock	3	70-804-10	70-804-10	70-804-10
N/S	Seat Bolt	12	N/A	N/A	B184900

*** 6" QTY = 2 / 8" & 10" QTY = 8

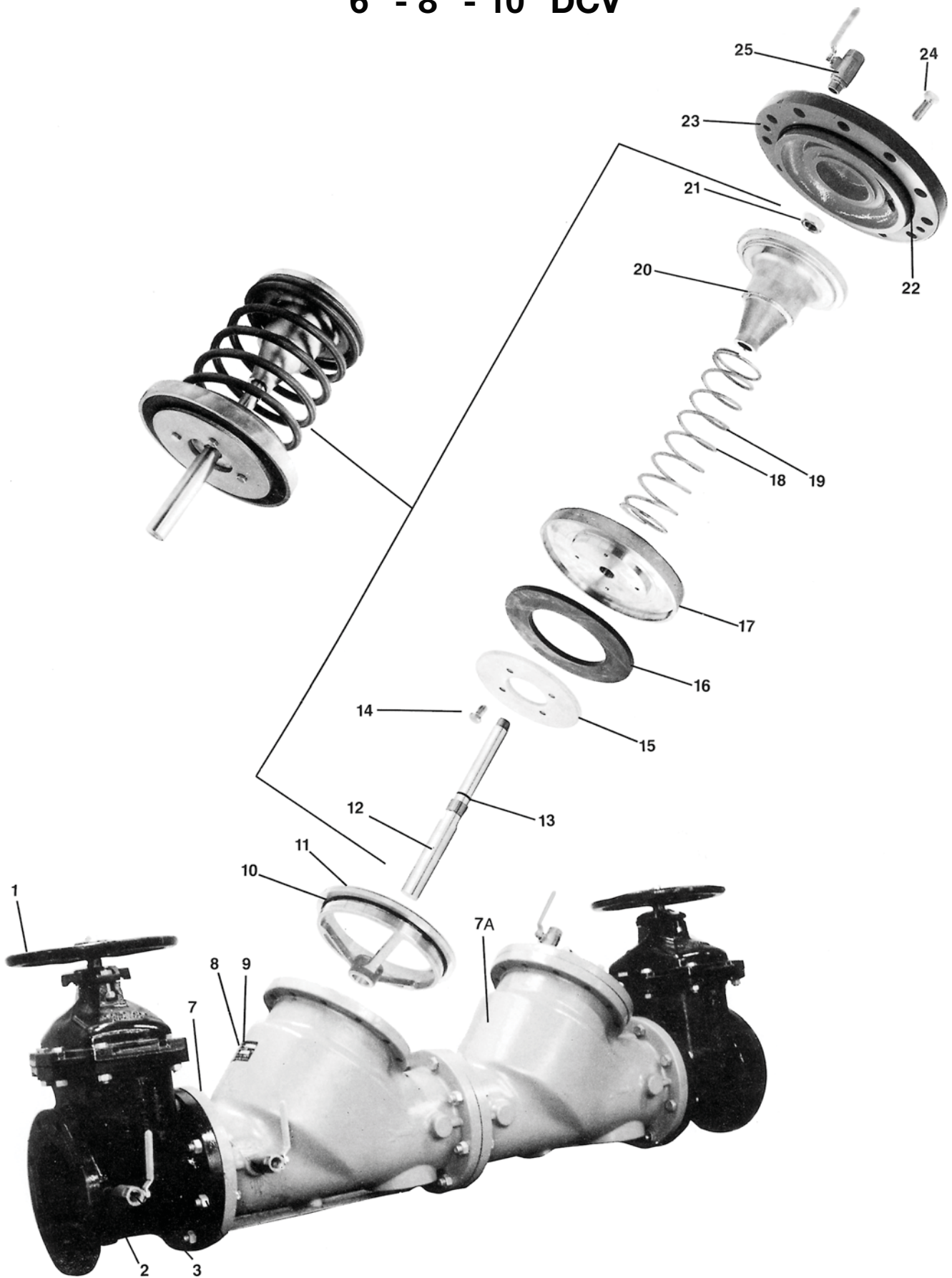
**** 6" QTY = 12 / 8" & 10" QTY = 24

Repair Kits

<u>Check Valve Repair Kit</u>	40-00C-02	40-00E-02	40-00G-02
(12, 13, 14, 15, 16, 17, 18, 20, 21, 22), n/s packet lube			
<u>Seat Repair Kit</u>	40-00C-03	40-00E-03	40-00G-03
(10, 11, 22), n/s packet lube			
<u>Rubber Repair Kit</u>	40-00C-04	40-00E-04	40-00G-04
2 each (10, 13, 16, 22), n/s packet lube			



6" - 8" - 10" DCV

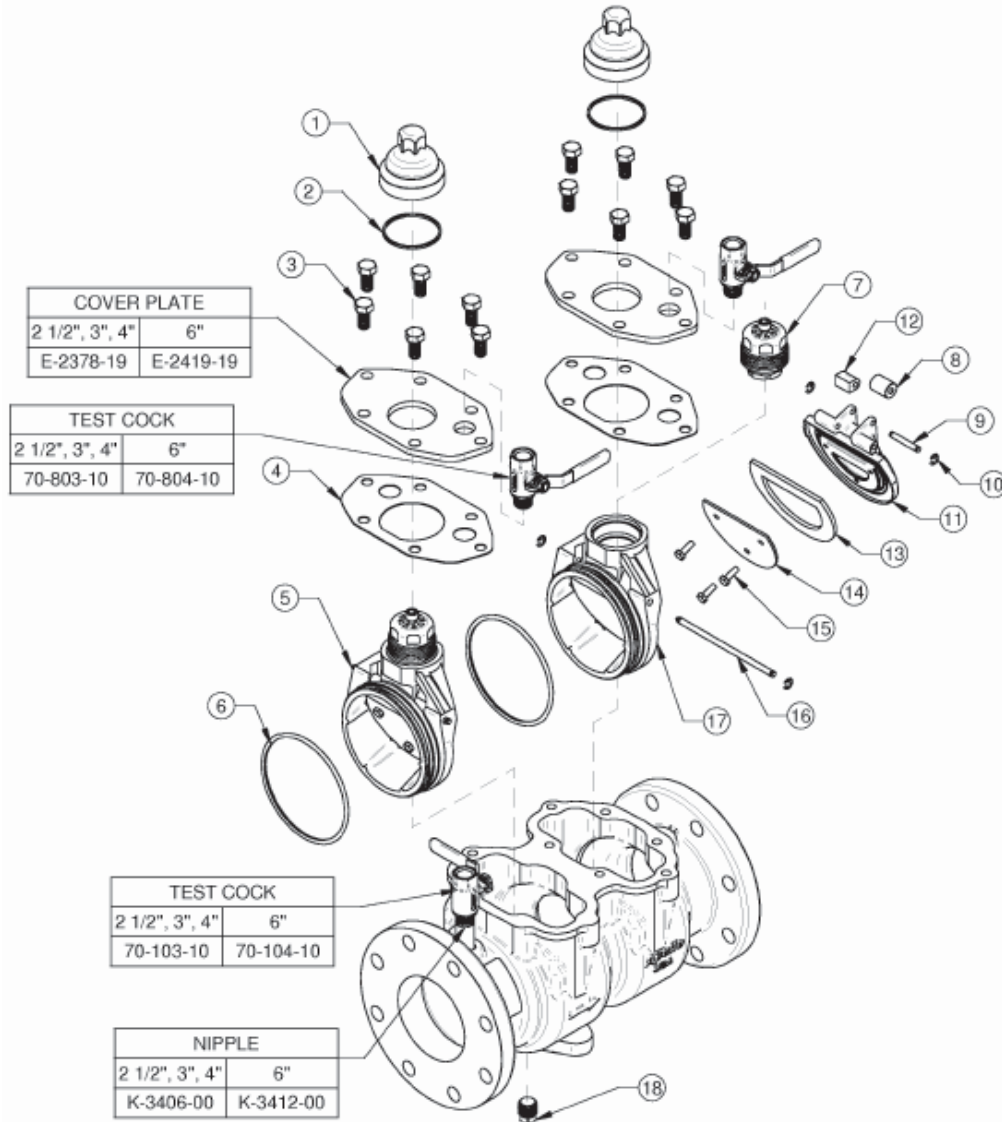




APOLLO SERIES 4S-100 D.C. REPLACEMENT PARTS

Double Check Backflow Preventer

2 1/2" – 6"



ITEM #	DESCRIPTION	QTY.	PART #	ITEM #	DESCRIPTION	QTY.	PART #
1	Spring Cap	2	S-4877-00	12	Hinge Bushing	2	D-3685-00
2	O-Ring	2	D-3506-00	13	Seat Disc	2	D-3504-00
3	Cover Bolt	12	B-2083-00	14	Disc Plate	2	E-2379-00
4	Gasket	2	D-3505-00	15	Disc Ret. Bolt	6	B-1793-00
5	Check Assembly	2	W-7590-05	16	Hinge Pin	2	I-5868-06
6	O-Ring	2	D-3507-00	17	Seat Housing	2	F-3090-00
7	Spring Assembly	2	W-8393-00	18	Plug	2	K-3008-00
8	Roller	2	I-5866-00				
9	Roller Pin	2	I-5867-06				
10	"E" Clip	4	I-3144-00				
11	Swing Arm	2	G-3769-00				

REPAIR KITS FOR 2 1/2" – 6"

Check Valve Repair Kit (Includes 1 each of items 2, 4, and 5).....4S-009-01

Rubber Repair Kit (includes 1 each of items 2, 4, 6, 12, and 13).....4S-009-02



**Double Check Backflow Preventer
8" & 10" DC**

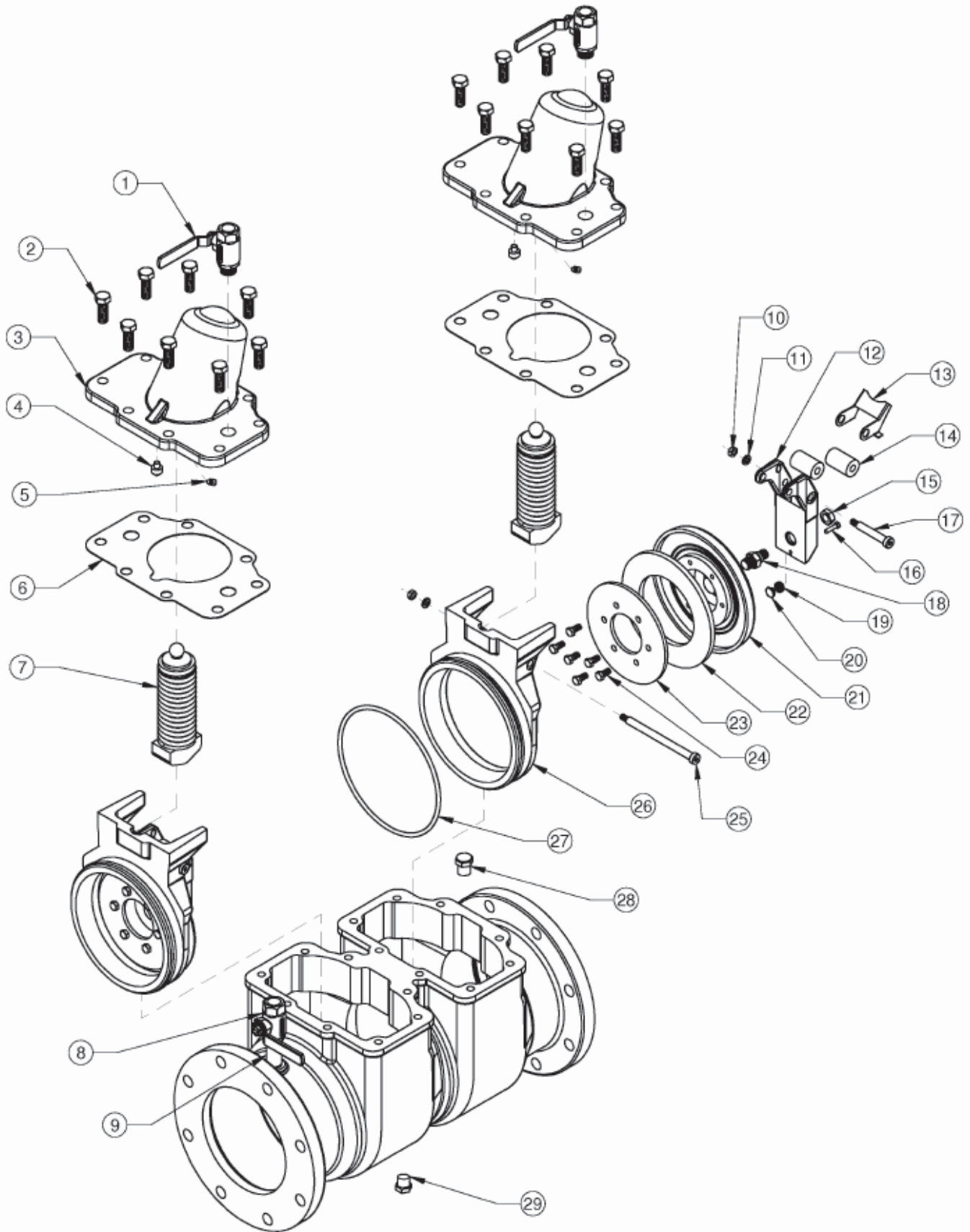
ITEM #	DESCRIPTION	QUANTITY	PART #
1	3/4" Test Cock	2	70-804-10
2	Cap Bolt	16	B-1800-00
3	Cover	2	Q-5624-19
4	Pilot Pin	2	I-6411-06
5	Cam Bumper	2	I-6412-06
6	Gasket	2	D-3964-00
7	Spring Ass'y	2	W-4373-05
8	3/4" Test Cock	1	70-104-10
9	3/4" Nipple	1	K-3412-00
10	Nut	2	C-2039-00
11	Lock Washer	2	E-2276-00
12	Swing Arm	1	F-3235-05
13	Positioner	1	I-6441-00
14	Cam Roller	2	I-6410-00
15	Stem Nut	2	C-2040-00
16	Compensator Bolt	2	B-2183-00
17	Roller Pin	2	B-2518-00
18	Check Stem	2	G-3980-06
19	Compensator Spring	2	A-1459-00
20	Spring Button	2	E-2497-06
21	Seal Retainer	2	F-3225-05
22	Seat Disc	2	D-3961-00
23	Disc Plate	2	E-2494-00
24	Disc Retainer Bolt	12	B-1754-00
25	Hinge Pin	2	B-2517-00
26	Seat	2	L-6137-05
27	Seat O-ring	2	D-3963-00
28	3/4" Plug	1	K-3010-00
29	1/2" Plug	1	K-3008-00

REPAIR KITS FOR 8" & 10"

- Check Valve Repair Kit (Includes items 6 and 10-27, repairs 1 check valve).....4S-00E-06
- Rubber Repair Kit (includes 1 each of items 6, 22, and 27).....4S-00E-04



APOLLO SERIES 4S-00 D.C. REPLACEMENT PARTS





40-200

Reduced Pressure Principle Backflow Preventer

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.		
			1/4", 3/8", 1/2"	3/4" & 1"	1 1/4", 1 1/2", 2"
1	Body	1	Consult Factory	Consult Factory	Consult Factory
2	R.V. Cover	1	F301705	F298205	F298505
3	Cap	2	F323105	F310805	F311505
4	R.V. Bushing	1	I450715	I424015	I425715
5	R.V. Stem	1	G329600	G321200	G321300
6	Diaphragm Plate	1	E222200	D250600	D251600
7	Poppet	2	K340900	K336200	K336700
8	R.V. Diaphragm	1	D263200	D250500	D251500
9	R.V. Seat Disc	1	D263100	D282900	D251400
10	Check Seat Disc	2	D263000	D250300	D250800
11	Stem O-Ring	1	D262800	D250200	D251300
12	Bushing O-Ring	1	D262900	D250100	D251200
13	Check Cap O-Ring	2	D204600	D250000	D251000
14	R.V. Spring	1	A179500	A169800	A170200
15	1st Check Spring	1	A179700	A169900	A170300
16	2nd Check Spring	1	A179400	A170000	A170100
17	Hex Head Bolt	6(*4) (**7)	B179300	B175100	B175400
18	Screw	2	B183700	B175000	B175000
19	Screw	1	B174900	B174900	B175300
20	Screw	1	B183700	B174800	B175300
21	Retaining Washer	2	E222300	D249900	D250900
22	Retaining Washer	1	E222400	D249800	D249900
23	Test Cock	4	7829001	7829001	7829101
24	Check Seat	2	L515200	L486400	L486600
25	Check O-Ring	2	D308600	D227400	D256500
26	R.V. Seat	1	L515300	L486300	L486700
27	R.V. O-Ring	1	D308700	D216800	D227400
	O-Ring Lubricant	1	I901600	I901600	I901600

Repair Kits***

Major Repair Kit

4, 5, 6, 7 (2), 8, 9, 10 (2), 11, 12,
13 (2), 14, 18 (2), 19, 20, 21 (2), 22,
24 (2), 25 (2), 26, 27

40003A1

40004A1

40007A1

Check Valve Repair Kit

7, 10, 13, 18, 21, 24, 25

40003A2

40004A2

40007A2

Relief Valve Repair Kit

4, 5, 6, 8, 9, 11, 12, 14, 19, 20, 22,
26, 27

40003A3

40004A3

40007A3

Rubber Repair Kit

8, 9, 10 (2), 11, 12, 13 (2), 25 (2), 27

40003A4

40004A4

40007A4

Replaceable Seat Kit

24 (2), 25 (2), 26, 27

40003A7

40004A7

40007A7

Accessories

Air Gap Drain

AGD4012

AGD401

40200X1

Seat Removal Tool

40000SRT

40000SRT

40000SRT

Reduced Pressure Backflow Preventer Test Kit 40200TKU, 40200TK5U, or 40200TKRC (All Sizes)

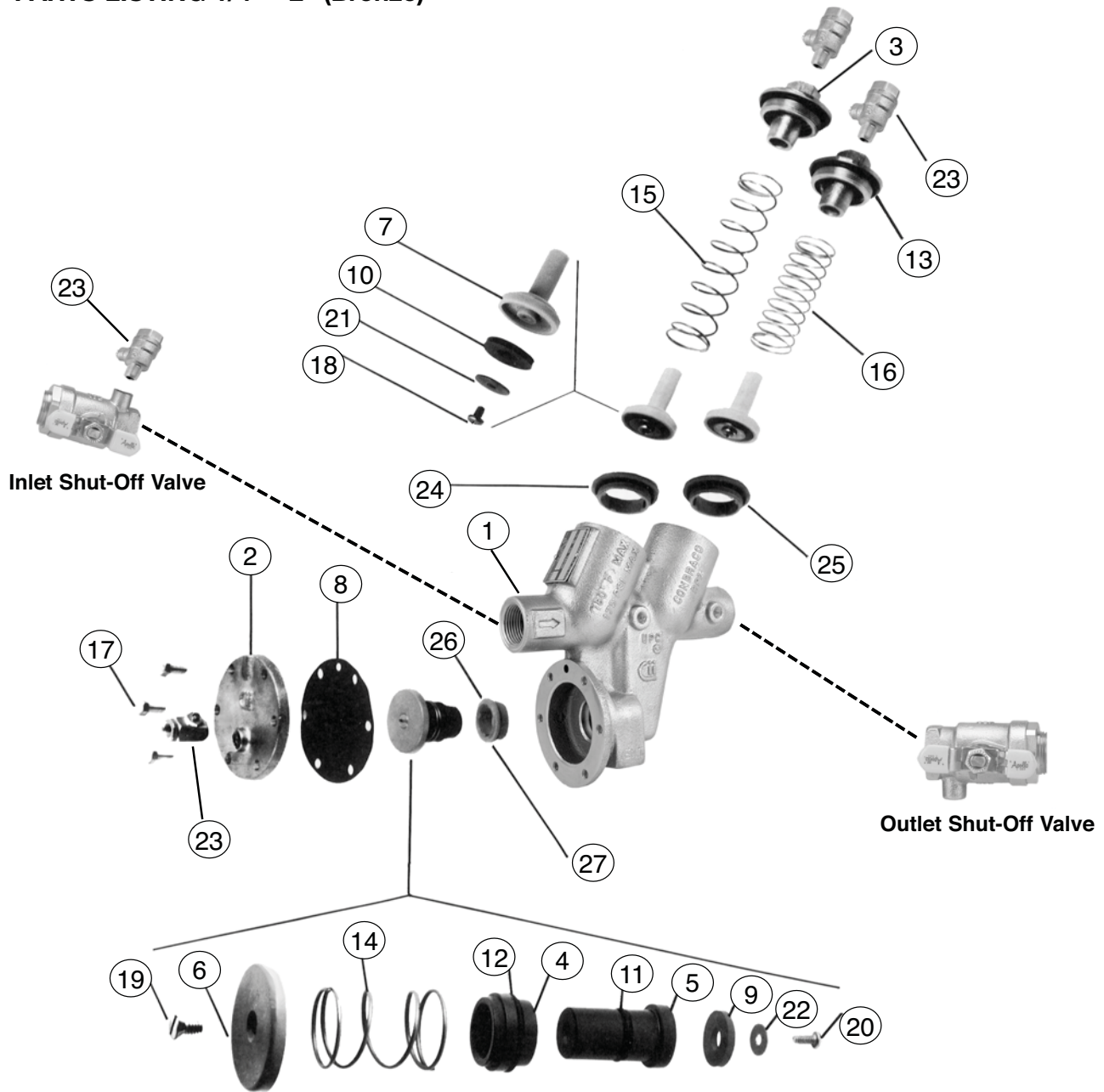
* 1/4", 3/8" & 1/2" SIZES ONLY

** 1-1/4", 1-1/2" & 2" SIZES ONLY

*** For repair kits without replaceable seat components, replace part number suffix designation "A" with "O".
Example: Major Repair Kit part number 4000401



VII PARTS LISTING 1/4" - 2" (Bronze)



Inlet and Outlet Shut-Off Valves
40-20X-TX

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Inlet Shut-Off Valve (pictured)	7B80101	7B80201	7B80301	7B80401	7B80501	7B80699A	7B80799A	7B80899A
Inlet Shut-Off Valve w/Union			7B30301	7B30401	7B30501	7B30699A	7B30799A	7B30899A
Outlet Shut-Off Valve (pictured)	7B80131	7B80231	7B80331	7B80431	7B80531	7B80699B	7B80799B	7B80899B
Outlet Shut-Off Valve w/Union			7B30331	7B30431	7B30531	7B30699B	7B30799B	7B30899B
Replacement Handles for Shut-Off Valves	W858800	W858800	W858800	W858800	W859100	W891500	W891600	W891600

NOTE: For the lead free version of the 40-200 Series, refer to www.apollovalves.com



**RPZ (Model 40-200 Series)
Parts List**

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.			
			2-1/2"	3"	4"	6"
1	Shut-Off Valve (OS&Y)	2	W678900	W679000	W682400	W682500
1	Shut-Off Valve (NRS)	2	W678500	W678600	W674300	W674400
2	Brass Nipple	1	K340600	K340600	K340600	K341240
3	Test Cock	1	7010301	7010301	7010301	7010401
4	Flange Nut	*	C169100	C169100	C169100	C175900
5	Ring Gasket	2	D258300	D258400	D258200	D257900
6	Flange Bolt	*	B180400	B180400	B182800	B182900
7	Body	1	Q452819	Q452919	Q453219	Q453819
8	Nameplate	1	I440600	I440600	I440600	I440600
9	Drive Screw	2	I261300	I261300	I261300	I261300
10	C.V. Seat O-Ring	2	D256700	D256700	D257300	D257600
11	C.V. Seat	2	L463705	L463705	L464005	L464405
12	C.V. Stem	2	G323906	G323906	G324206	G324600
13	C.V. Stem O-Ring	2	D256100	D256100	D256100	D257600
14	Retainer Nut	2	C175600	C175600	C175600	C176000
15	Retainer Washer	2	E219900	E219900	E220400	E220500
16	C.V. Seat Disc	2	D256000	D256000	D257200	D257500
17	Seat Disc Holder	2	F300005	F300005	F300105	F300205
18	1st Check Spring	1	A174000	A174000	A174300	A174500
19	2nd Check Spring	1	A174100	A-174100	A174400	A174600
20	Spring Retainer	2	E219805	E219805	E220205	E220305
21	Jam Nut	2	C158905	C158905	C158905	C170600
22	Cap O-Ring	2	D256600	D256600	D257400	D257700
23	C.V. Cap	2	Q453019	Q453019	Q453319	Q453719
24	Cap Bolt	12	B179700	B179700	B180100	B180000
25	Test Cock	3	7080301	7080301	7080301	7080401

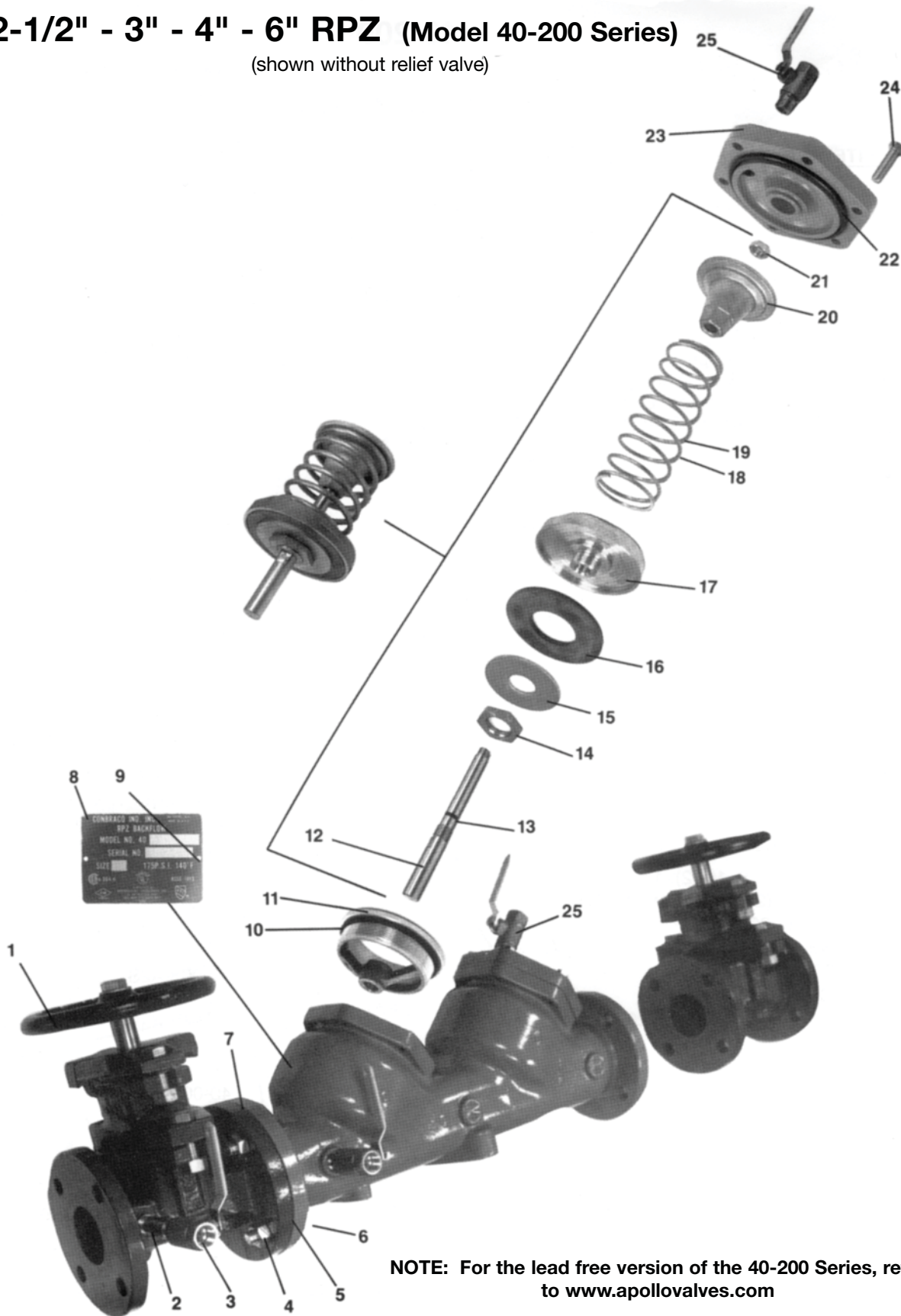
*2-1/2" & 3" QTY = 8 / 4" QTY = 16 / 6" QTY = 24



IX PARTS LISTING 2-1/2" - 10" (Ductile Iron)

2-1/2" - 3" - 4" - 6" RPZ (Model 40-200 Series)

(shown without relief valve)



NOTE: For the lead free version of the 40-200 Series, refer to www.apollovalves.com



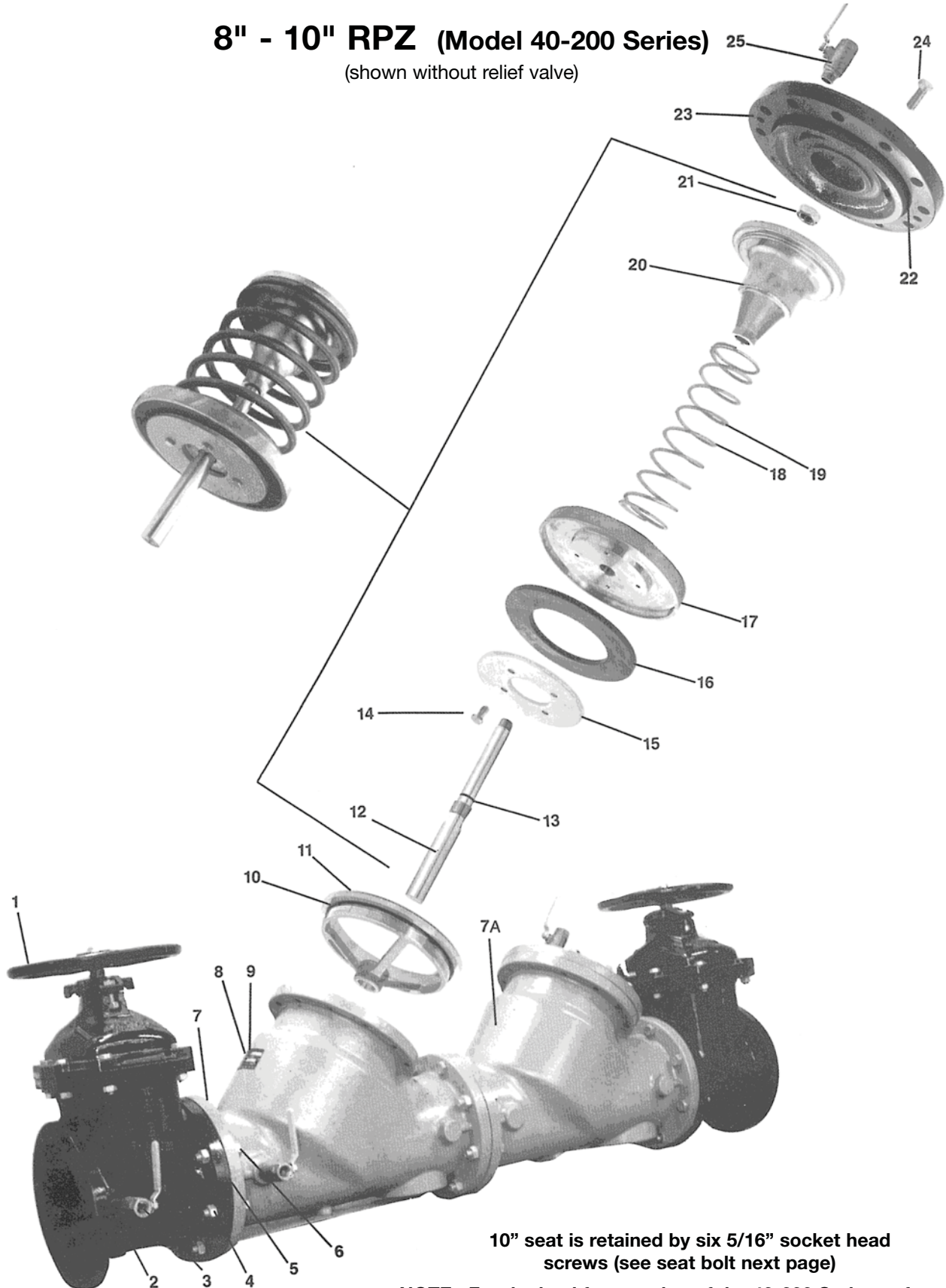
**RPZ (Model 40-200 Series)
Parts List**

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	
			8"	10"
1	Shut-Off Valve (OS&Y)	2	W682600	W685900
1	Shut-Off Valve (NRS)	2	W682700	W685800
2	Brass Nipple	1	K341200	K341200
3	Test Cock	1	7010401	7010401
4	Flange Nut	*	C175900	C179300
5	Ring Gasket	3	D259000	D265300
6	Flange Bolt	**	B185700	B185800
6A	Stud	2	N/A	B203600
7	Body	1	Q454319	Q457219
7A	Body	1	Q459319	Q459519
8	Nameplate	1	I440600	I440600
9	Drive Screw	2	I261300	I261300
10	C.V. Seat O-Ring	2	D258900	D258800
11	C.V. Seat	2	L465305	L475905
12	C.V. Stem	2	G327300	G330500
13	C.V. Stem O-Ring	2	D258700	D258700
14	Retainer Nut/Bolt	***	C175400	C175400
15	Retainer Washer	2	E220800	E222900
16	C.V. Seat Disc	2	D258600	D264900
17	Seat Disc Holder	2	F300805	F301905
18	1st Check Spring	1	A174700	A177800
19	2nd Check Spring	1	A174800	A177900
20	Spring Retainer	2	E220705	E222805
21	Jam Nut	2	*C176305	*C176305
22	Cap O-Ring	2	D258800	D265100
23	C.V. Cap	2	Q454519	Q457419
24	Cap Bolt	****	B169000	B188100
25	Test Cock	3	7080401	7080401
Not Shown	Seat Bolt (10" only)	12	N/A	B184900

8" QTY = 24 / 10" QTY = 38
 8" QTY = 24 / 10" QTY = 34
 8" & 10" QTY = 8
 8" & 10" QTY = 24



8" - 10" RPZ (Model 40-200 Series)
(shown without relief valve)



10" seat is retained by six 5/16" socket head screws (see seat bolt next page)

NOTE: For the lead free version of the 40-200 Series, refer to www.apollovalves.com



**RPZ (Model 40-200 Series)
Parts List**

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	
			2-1/2" - 6"	8", 10"
26	Relief Valve Cover Bolt	7	B179600	7 B170300
27	1/2 NPT Plug	1	K300800	N/A N/A
27	3/4 NPT Plug	N/A	N/A	1 K301000
28	Relief Valve Cover	1	Q453105	1 Q454219
29	Relief Valve Diaphragm	1	D256400	1 D259100
30	Relief Valve Seat Ring	1	L463805	1 L465105
31	Relief Valve Seat Ring O-Ring	1	D256800	1 D2593-00
32	Relief Valve Body	1	Q453505	1 Q454119
33	Small Relief Valve O-Ring	1	D257000	1 D218600
34	Large Relief Valve O-Ring	1	D257100	1 D230400
35	Relief Valve Flange Bolt	2	B180000	4 B166900
36	1/4 NPT Plug	1	K301900	1 K301900
37	Relief Valve Flange Bolt	2	B179200	2 B166900
38	Pan Head Screw	2	B175300	1 B185600
39	Relief Valve Seat Washer	1	E220000	1 E221000
40	Relief Valve Seat Disc	1	D256300	1 D259500
41	Relief Valve Stem	1	G324000	1 G327405
42	Relief Valve Stem O-Ring	1	D256200	1 D259400
43	Relief Valve Bushing O-Ring	1	D256200	1 D259200
44	Relief Valve Bushing	1	L463915	1 L465215
45	Relief Valve Spring	1	A174200	1 A174900
46	Diaphragm Plate	1	E220100	2 E220905
47	Stem Face O-Ring	N/A	N/A	1 D210600
48	Diaphragm Bolt	N/A	N/A	1 B180000

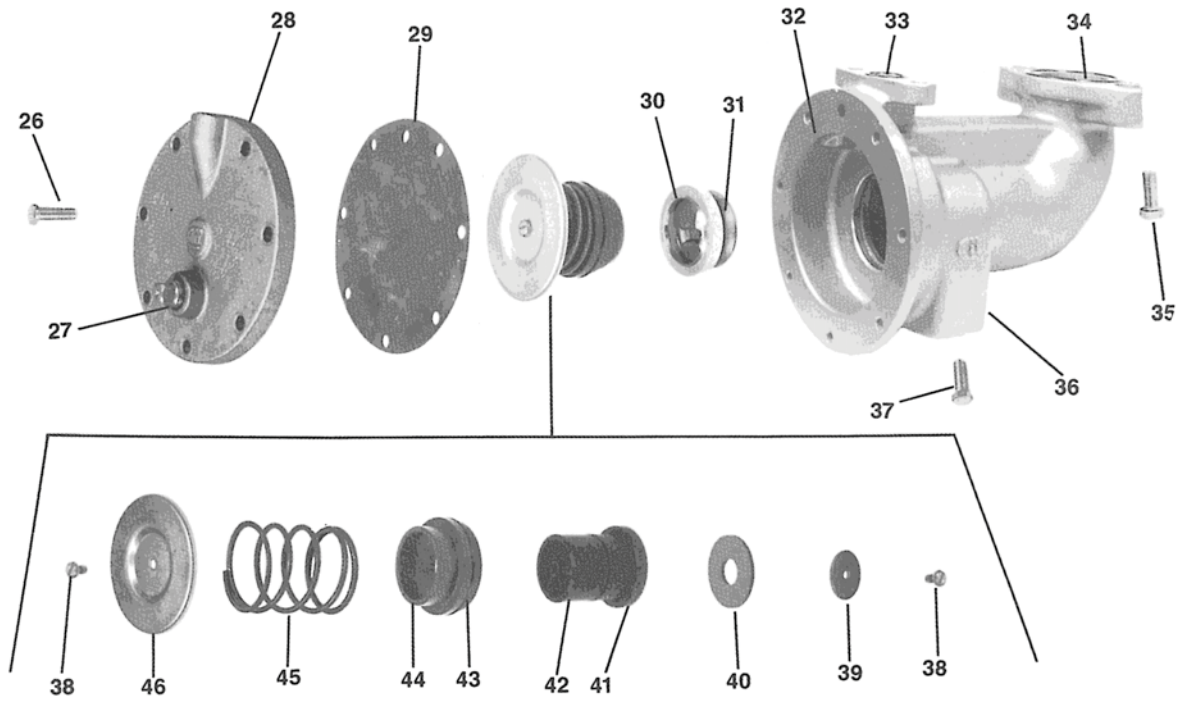
Repair Kits

	PART NO.				
	2-1/2", 3"	4"	6"	8"	10"
<u>1st Check Valve Repair Kit</u> 12, 13, 14, 15, 16, 17, 18, 20, 21, 22	4000901	4000A01	4000C01	4000E01	4000G01
<u>2nd Check Valve Repair Kit</u> 12, 13, 14, 15, 16, 17, 19, 20, 21, 22	4000902	4000A02	4000C02	4000E02	4000G02
<u>Seat Repair Kit</u> 10, 11, 22	4000903	4000A03	4000C03	4000E03	4000G03
<u>Check Rubber Repair Kit (2 of ea.part)</u> 10, 13, 16, 22	4000904	4000A04	4000C04	4000E04	4000G04
<u>Relief Valve Repair Kit</u> 29, 30, 31, 33, 34, 38, 39, 40, 41, 42, 43, 44, 45, 46, (47, 48)*	4000905	4000A05	4000C05	4000E05	4000G05
<u>Relief Valve Rubber Repair Kit</u> 29, 31, 33, 34, 40, 42, 43, (47)*	4000906	4000A06	4000C06	4000E06	4000G06

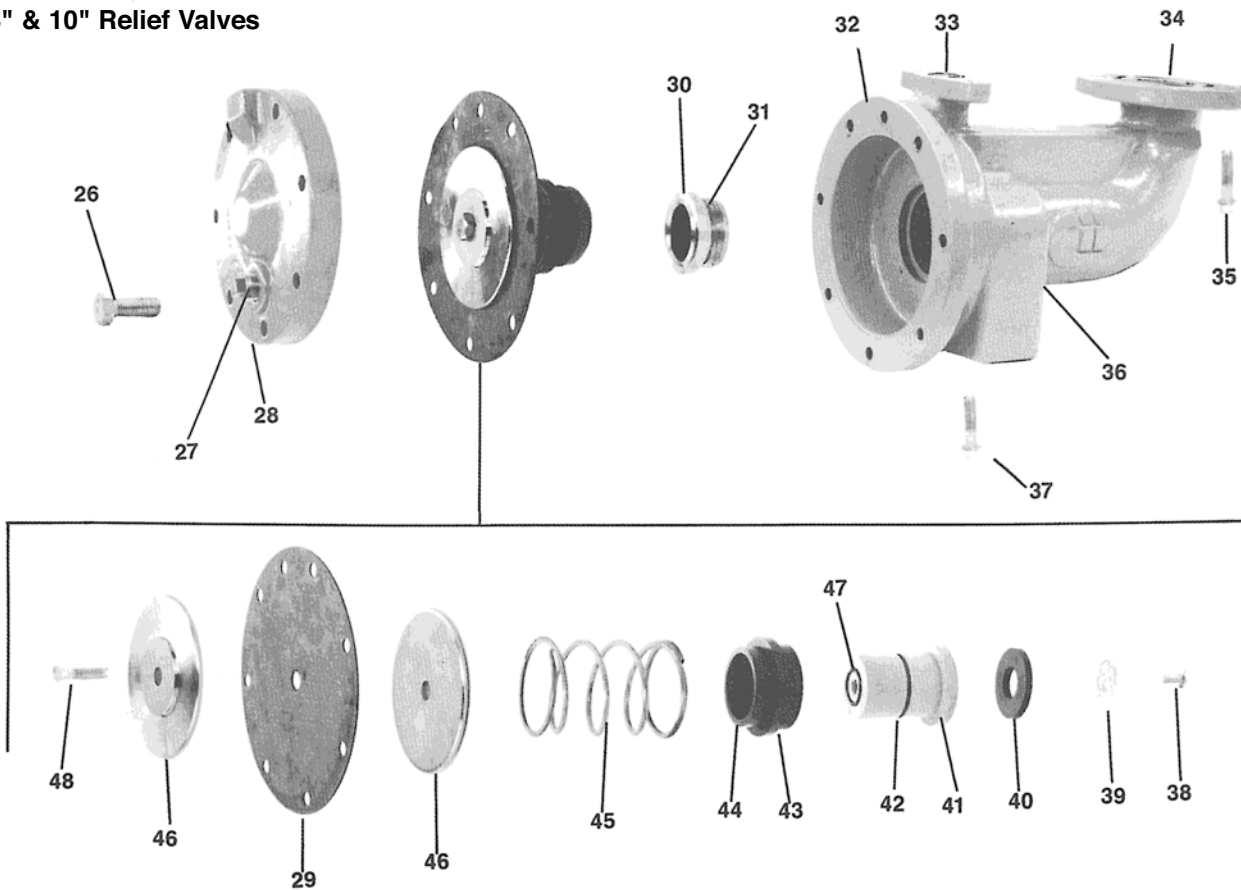
*8" & 10" Only



2-1/2" - 6" Relief Valves



8" & 10" Relief Valves



NOTE: For the lead free version of the 40-200 Series, refer to www.apollovalves.com



FEBCO SERIES 805Y D.C. REPLACEMENT PARTS LIST

MODEL 805Y PARTS / REPAIR KITS

Model 805Y

Fig No.	Description	Qty.	3/4"	1"	1 1/2"	2"
1	Body	-	-	-	-	-
7	Cap	2	101-134	101-134	101-135	101-135
8	O-ring	2	398-226-72	398-226-72	398-235-72	398-235-72
9	Disc Holder	2	500-270	500-270	500-278	500-278
10	Seat Disc	2	400-099	400-099	400-103	400-103
11	Washer	2	300-084	300-084	300-108	300-108
12	Screw	2	516-543-03	516-543-03	516-543-03	516-543-03
13	Spring	2	630-115	630-115	630-118	630-118
29	Ball Valve - Inlet	2	781-053	781-054	781-056	781-057
29A	Ball Valve - Outlet	2	781-048	781-049	781-051	781-052
30	Testcock	4	781-074	781-074	781-075	781-075

Model 805Y and 805YB Assemblies / Kits

Rubber Parts (Items: 8, 10 (2)each)	905-042	905-042	905-053	905-053
Check Assembly (Items: 8, 9, 10, 11, 12)	905-044	905-044	905-055	905-055

Model 805YB

Model 805YB utilizes the same components as the 805Y with the exception of the following:

Fig No.	Description	Qty.	3/4"	1"	1 1/2"	2"
13	Spring	2	630-167			

Model 805YS

Model 805YS utilizes the same components as the 805Y with the exception of the following:

Fig No.	Description	Qty.	3/4"	1"	1 1/2"	2"
10	Seat Disc	2	400-099s	400-099s	400-103s	400-103s

805YS Assemblies / Kits

Rubber Parts (Items: 8, 10 (2)each)	905-042s	905-042s	905-053s	905-053s
Check Assembly (Items: 8, 9, 10, 11, 12)	905-044s	905-044s	905-055s	905-055s

Model 805YR

Model 805YR utilizes the same components as the 805Y with the exception of the following:

Fig No.	Description	Qty.	3/4"	1"	1 1/2"	2"
35	Seat Ring	2	110-023	110-023		
36	O-ring	2	398-028-72	398-028-72		

Model 805Y Commerical Parts

Item	Description	Material	3/4"	1"	1 1/2"	2"
8	O-Ring	Nitrile	568-226 2" x 2 1/4" x 1/8"	568-226 2" x 2 1/4" x 1/8"	568-235 3 1/8" x 3 3/8" x 1/8"	568-235 3 1/8" x 3 3/8" x 1/8"
29	Ball Valve	Bronze	3/4" NPT	1" NPT	1 1/2" NPT	2" NPT
30	Testcock	Brass	1/8" NPT	1/8" NPT	1/4" NPT	1/4" NPT

These parts are commercially available through most hardware distributors or retailers. Shut-offs valves, testcocks, flange gas kits, etc. are also commercially available but not listed.



FEBCO SERIES 805Y D.C. REPLACEMENT PARTS LIST

SERVICE PROCEDURES FOR MODELS 805Y, 805YB, 805YS

1. Disassembly-Check Valves

- Close inlet and outlet shut-off valves. Bleed residual pressure by opening #2, #3 and #4 testcocks.
- Unscrew cap using appropriate size wrench. **NOTE: Cap is spring loaded.**
- Remove the spring and check assembly.
- If any calcium or similar material has built-up on the inside surfaces of the guidehole in the cap, it can be removed with careful use of a standard reamer.
 - $\frac{3}{4}$ " through 1" devices: .6250 (5/8) Reamer
 - 1 1/2" and 2" devices: .8750 (7/8) Reamer

2. Check Valve Seal Replacement

- Hold check assembly in one hand and remove screw, washer, and seat disc. CAUTION: The use of pliers or other tools may damage the parts and require unnecessary replacement. Do not scratch or mark sealing or guiding surfaces.
- Install new disc after cleaning disc holder.
- Position disc washer and retain with screw.

3. Assembly

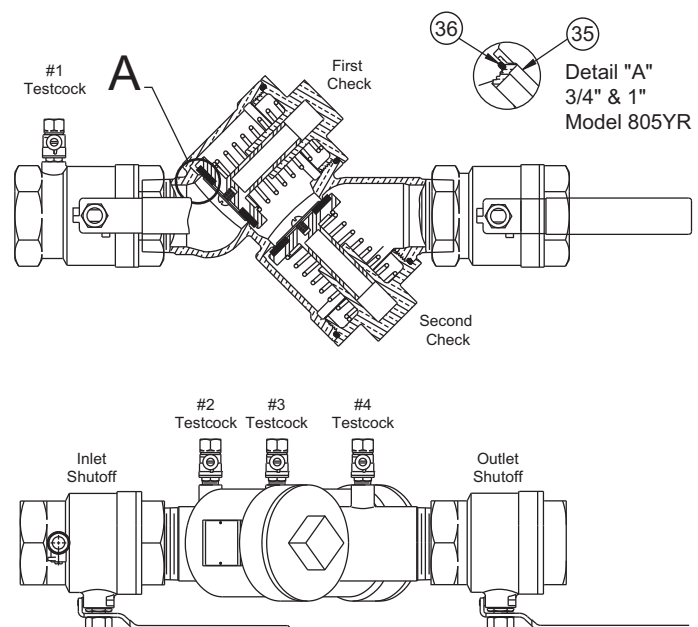
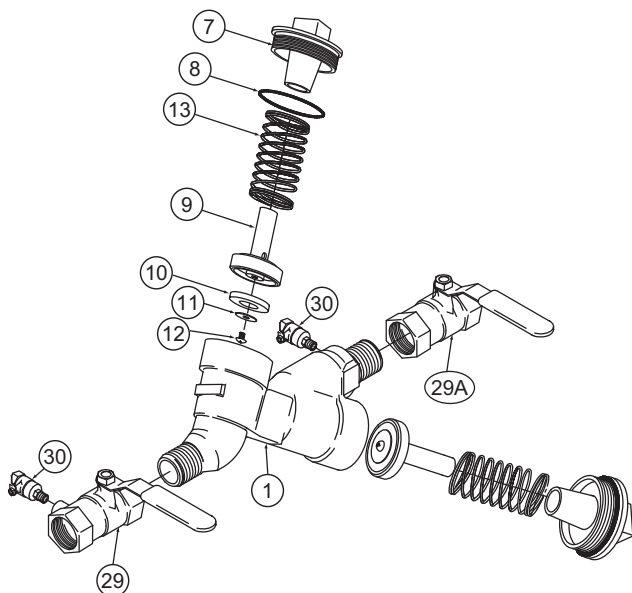
- Use reverse procedure for assembly with the following special instruction.
- To ease cap installation, apply a thin coating of O-ring lubricant or any FDA approved grease to the O-ring prior to assembly.
- Test unit to insure proper operation.

TESTING

All mechanical devices should be inspected on a regular basis to ensure they are working correctly. The assembly should be tested at time of initial installation, after servicing or maintenance, and at least annually thereafter. Acceptable test procedures are published by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (USC), The American Water Works Association (AWWA), The American Society of Sanitary Engineering (ASSE Series 5000) and the Canadian Standards Association (CAN/CSA B64-10). Please consult the regulatory authority in your area for more specific information.

HOW TO ORDER REPAIR KITS

- Locate item number and kit number in this maintenance manual.
- Verify the size of the valve the parts are to be used for.
- Provide full model number located on I.D. plate.
- Record kit number.
- A serial number (located on the I.D. plate) will assist in ordering the proper kits.
- Contact your local FEBCO Parts Distributor.





Repair Parts

Model 805YD, 806YD Repair Parts

ITEM	DESCRIPTION	MATERIAL	2 1/2"	3"	4"	6"	8"	10"
7.1	Screw	Brass	-	-	3/8-16 x 1 1/2	3/8 - 16 x 2	3/8 - 16 x 2	3/8 - 16 x 2
12.1	O-ring	Buna-N	568-238 3 1/2 x 3 3/4 x 1/8	568-246 4 1/2 x 4 3/4 x 1/8	568-254 5 1/2 x 5 3/4 x 1/8	568-264 7 1/2 x 7 3/4 x 1/8	568-273 9 1/2 x 10 x 1/8	10 5/16 x 10 9/16 x 1/8
13	Cap Screw	SS	7/16 -14 x 1	7/16 -14 x 1	1/2 -13 x 1 1/4	5/8 -11 x 1 1/2	3/4 -10 x 1 1/2	3/4 -10 x 1 3/4
14	O-ring	Buna-N	568-244 4 1/4 x 4 1/2 x 1/8	568-252 5 1/4 x 5 1/2 x 1/8	568-263 7 1/4 x 7 1/2 x 1/8	568-272 9 1/2 x 9 3/4 x 1/8	568-451 11 x 11 1/2 x 1/4	12 3/4 x 13 x 1/8
15	Lock-Nut	Brass	3/8 -24 Elastic	3/8 -24 Elastic	3/4 -16 Elastic	3/4 -16 Elastic	7/8 -14 Elastic	7/8 -14 Elastic
17	Bolt & Nut	Steel	5/8 -11 x 2 1/4	5/8 -11 x 2 1/2	5/8 -11 x 2 3/4	3/4 -10 x 3	3/4 -10 x 3 1/4	7/8 - 9 x 3 1/2
40	Ball Valve	Brass	1/2 IPS 200#	1/2 IPS 200#	1/2 IPS 200#	3/4 IPS 200#	3/4 IPS 200#	3/4 IPS 200#
51	O-ring	Buna-N	568-014 1/2 x 5/8 x 1/16	568-014 1/2 x 5/8 x 1/16	568-116 3/4 x 15/16 x 1/16	568-116 3/4 x 15/16 x 1/16	568-118 7/8 x 1 1/16 x 3/32	568-118 7/8 x 1 1/16 x 3/32
41**	Nipple	Bronze	-	-	1/2 x Close	3/4 x Close	3/4 x Close	3/4 x Close
304**	90o Elbow	Bronze	-	-	1/2	1/2	1/2	3/4
305**	Nipple	Bronze	-	-	1/2 x 5	3/4 x 6	3/4 x 6	3/4 x 6
316**	Bushing	Bronze	-	-	1/2 x 3/4	-	-	-
301**	Nipple	Bronze	-	-	-	3/4 x 2 1/2	3/4 x 2 1/2	3/4 x 2 1/2

** Used in the Model 806YD only.

These parts are commercially available through most hardware distributors or retailers. Shutoff valves, testcocks, flange gaskets, etc., are also commercially available but not listed. The water meter is a 5/8 x 3/4 size. Several brands are USC approved for use on the Model 806YD. Contact the factory for additional information.



Testing

All mechanical devices should be inspected on a regular basis to ensure they are working correctly. The assembly should be tested at time of initial installation, after servicing or maintenance, and at least annually thereafter. Acceptable test procedures are published by Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern

California (USC), The American Water Works Association (AWWA), The American Society of Sanitary Engineering (ASSE Series 5000) and the Canadian Standards Association (CAN/CSA B64.10). Please consult the regulatory authority in your area for more specific information.

Troubleshooting Guide

SYMPTOM #1	Cause:	Solution:
Check fails to hold 1.0 PSID min.	A. Debris on sealing surfaces	Disassemble and clean
	B. Leaking shutoff valve	Disassemble and clean or repair
	C. Damaged seat disc or seat ring	Disassemble and replace
	D. Damaged guide holding check open	Disassemble and replace guide pin and/or sleeve bushing
	E. Weak or broken spring	Disassemble and replace spring
Symptom #2	Cause:	Solution:
Chatter during flow conditions.	A. Worn or damaged guide	Disassemble & repair or replace guide
Symptom #3	Cause:	Solution:
Low flows passing through the mainline valve (806YD only).	A. Mainline check fouled	Disassemble and clean
	B. Meter strainer plugged	Disassemble and clean
	C. Damaged mainline seat disc or seat	Disassemble and replace
	D. Broken mainline spring	Disassemble and replace

How to Order Repair Kits

1. Locate item number and kit number in this maintenance manual.
2. Verify the size of the valve the parts are to be used for.
3. Provide full model number located on I.D. plate.
4. Record kit number.
5. A serial number (located on the I.D. plate) will assist in ordering the proper kits.
6. Contact your local FEBCO Parts Distributor.

Repair Kits

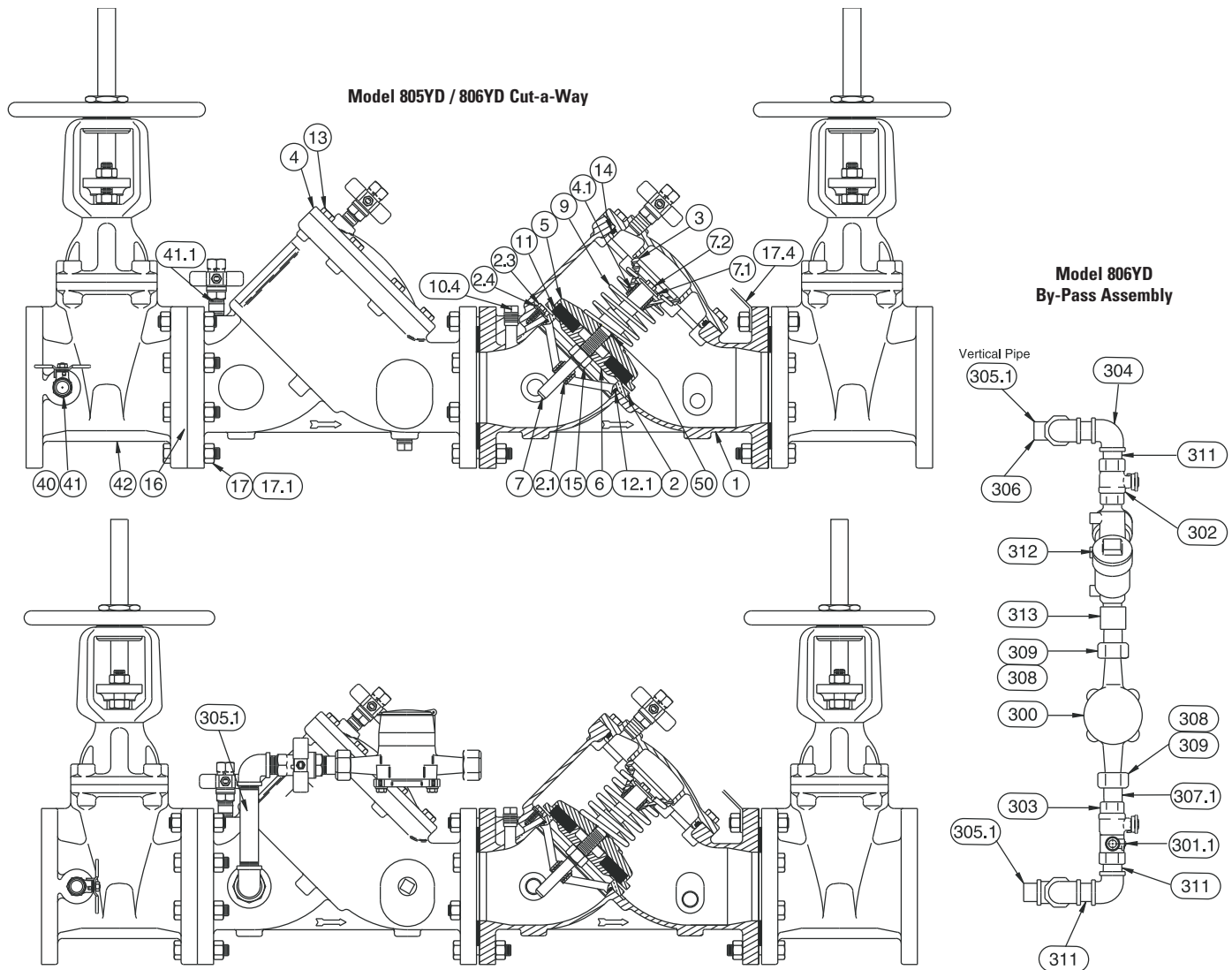
805YD, 806YD Assemblies / Kits

DESCRIPTION	2½"	3"	4"	6"	8"	10"
Model 805YD Spring Assembly (Items: 3, 4.1, 5, 6, 7, 7.1, 7.2, 9, 11, 15, 50)	905-086	905-088	902-467	902-469	902-471	902-473
Model 805YD, 806YD Rubber Parts (Items: 11, 14, 50)	905-059	905-060	905-061	905-062	905-063	905-064
Model 805YD, 806YD Seat Kit (Items: 2, 2.1, 2.2, 12)	902-386YD	902-385YD	902-384YD	902-383YD	902-382YD	902-381YD
Model 805YD, 806YD Lg. Mounting Kit (Items: 16, 17, 17.1; Both Ends)	905-036	905-037	905-038	905-039	905-040	905-041
Model 805YD, 806YD Cover Assembly (Items: 4, 4.1, 14, Aircock (not shown))	902-497	902-498	902-499	902-500	902-501	902-502
Model 806YD Spring Assembly (Items: 3, 4.1, 5, 6, 7, 7.1, 7.2, 9, 11, 15, 50)	–	–	902-514	902-515	902-516	902-517
Model 806YD By-Pass Kit (without meter) (Items: 301 through 313)	–	905-138	905-138	905-138	905-138	905-138



Repair Parts — 805YD, 806YD

2 1/2" - 10" (65 - 250mm) Double Check, Double Check Detector Assemblies



Model 805YD, 806YD Parts

Fig No.	Description (QTY)	Fig No.	Description (QTY)	Fig No.	Description (QTY)
1	Body (1)	12.1	O-ring (2)	300**	Meter
2	Seat Ring (1)	13	Capscrew (16)	301**	Nipple
2.1	Bushing (1)	14	O-ring (2)	302**	Ball Valve
2.3	Washer (6)	15	Hex Nut (2)	303**	Ball Valve
2.4	Capscrew (6)	16	Gasket (1)	301.1**	Testcock
3	Guide (2)	17	Capscrew (4)	304**	Elbow
4	Cover (4)	17.1	Hex Nut (12)	305**	Nipple
4.1	Bushing (2)	17.4	Lift Strap (2)	306**	Nipple
5	Disc Holder (2)	40	Ball Valve (3)	307.1**	Tailpiece
6	Disc Washer (2)	41	Nipple (1)	308**	Coupling Nut
7	Stem (2)	41.1	Nipple (2)	309**	Meter Washer
7.1	Screw (2)	50	O-ring (2)	311**	Nipple
7.2	Washer (2)	42	NRS Gate Valve	312**	805Y (Less Shutoffs)
9	Spring (2)	42	OS&Y Gate Valve	313**	Coupling
11	Seat Disc (2)				

** Used in the Model 806YD only.

**PARTS LIST**

Item	Description	Qty.	1/2	3/4	1	1 1/4	1 1/2	2
1	Body	1	110134	110031	110032	110136	110027	110025
1.2	Tailpiece	1	110127	110040	110039	110138	110138	110037
1.4	O-Ring	1	39603070	39603070	39603370	39604370	39604370	39604370
2	Cover	1	110041	110041	110035	110026	110026	110026
2.2	O-Ring	1	39622470	39622470	39622970	39624070	39624070	39624070
3	Seat	2	500393	500393	500373	500358	500358	500358
3.1	O-Ring	2	39612670	39612670	39622470	39633770	39633770	39633770
4	Poppet	2	500394	500394	500374	500357	500357	500357
5	Seat Disc	2	410127	410127	410134	410128	410128	410128
5.1	Disc Retainer	2	500396	500396	500391	500384	500384	500384
5.2	Round HD Screw	2	51653203	51653203	51653203	51951304	51951304	51951304
6	Spring	1	630177	630177	630173	630169	630169	630169
7	Guide	2	500395	500395	500375	500356	500356	500356
8	Retainer Spacer	1	500392	500392	500376	500366	500366	500366
9*	Ball Valve Tapped	1	781244	781053	781054	781055	781056	781057
	Union End BV Tapped	1	781287	781288	781289	781290	781291	781292
9.1*	Ball Valve	1	781047	781048	781049	781050	781051	781052
	Union End Ball Valve	1	781293	781294	781295	781296	781297	781298
11	Test Cock	4	781074	781074	781074	781075	781075	781075
12	Seat Ring - RV	1	500378	500378	500378	500368	500368	500368
21	Hex HD Capscrew	10	51151306	51151306	51151306	51151406	51151406	51151406

*Union End Ball Valve Not Shown.



REPAIR KITS

How to order parts and Repair Kits

1. Locate item number and kit number in this maintenance manual.
2. Verify the size of the valve the parts are to be used on.
3. Provide full model number located on I.D. plate.
4. Give kit number.
5. A serial number (located on the I.D. plate) will assist in ordering the proper kits.
6. Contact your local FEBCO Parts Distributor.

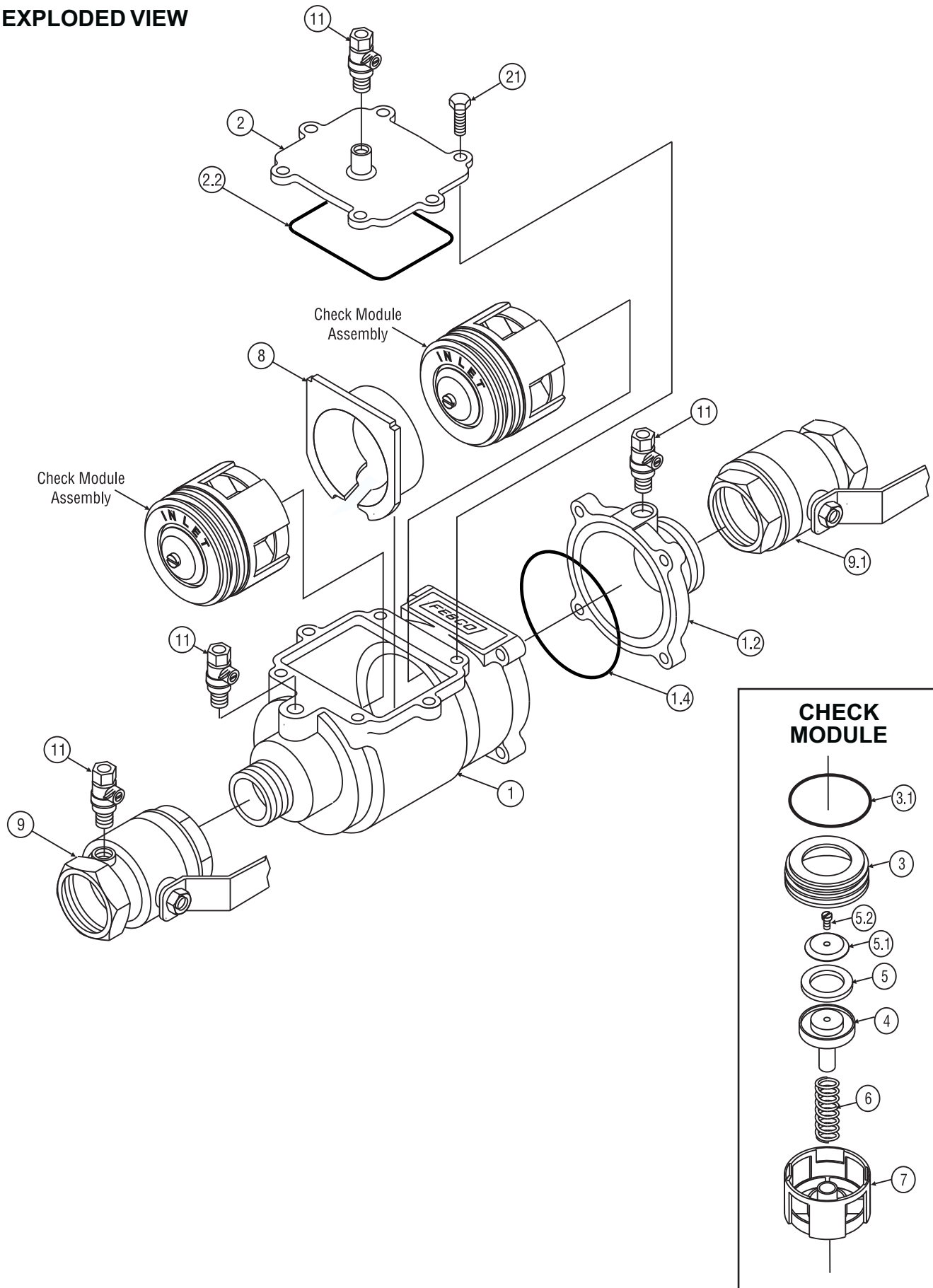
850 Rubber Parts Kit		1/2	3/4	1	1 1/4	1 1/2	2
Part No.		905-342	905-342	905-343	905-344	905-344	905-344
All Sizes Include:							
Item	Description	Qty.	Item	Description	Qty.		
2.2	O-Ring	1	5	Seat Disc	2		
3.1	O-Ring	2					

850 Check Module Assembly		1/2	3/4	1	1 1/4	1 1/2	2
Part No.		905-347	905-347	905-349	905-351	905-351	905-351
All Sizes Include:							
Item	Description	Qty.	Item	Description	Qty.		
3	Seat	1	5.1	Disc Retainer	1		
3.1	O-Ring	1	5.2	Round HD Screw	1		
4	Poppet	1	6	Spring	1		
5	Seat Disc	1	7	Guide	1		

850 Single Poppet Kit		1/2	3/4	1	1 1/4	1 1/2	2
Part No.		905-339	905-339	905-340	905-341	905-341	905-341
All Sizes Include:							
Item	Description	Qty.	Item	Description	Qty.		
4	Poppet	1	5.1	Disc Retainer	1		
5	Seat Disc	1	5.2	Round HD Screw	1		



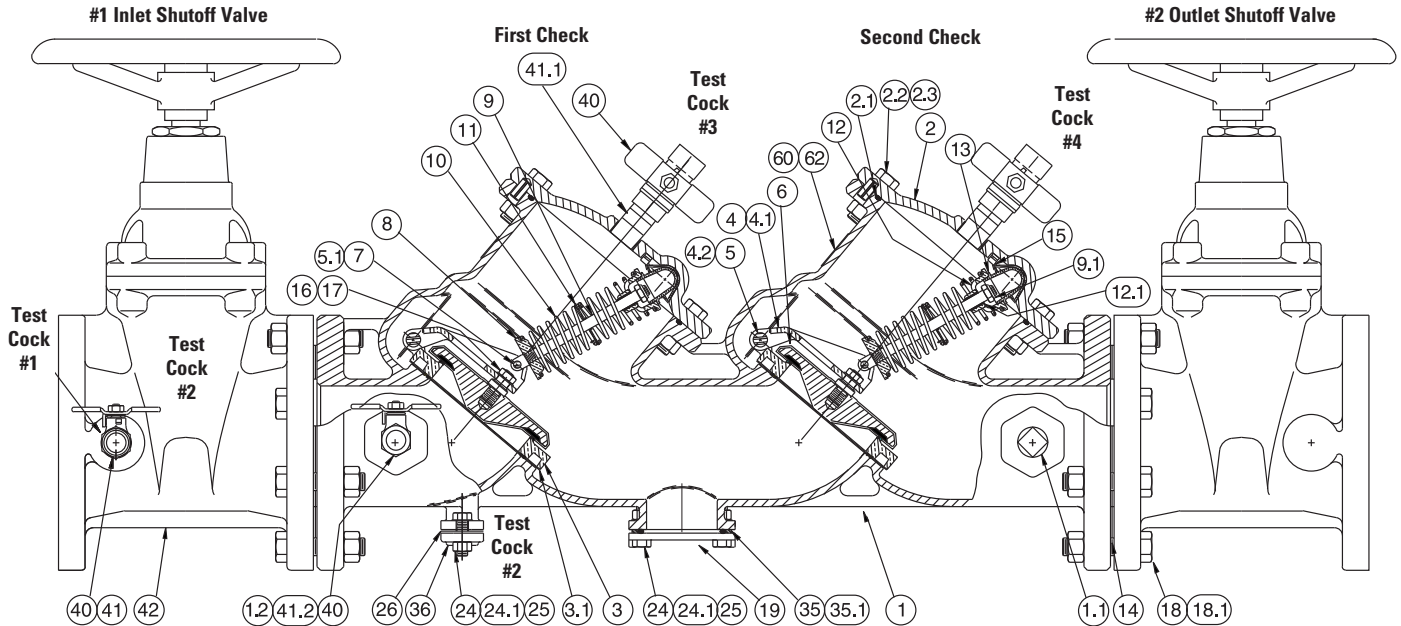
EXPLODED VIEW





Repair Parts 850 / 856

2½" - 10" (65 - 250mm) Double Check / Double Check Detector Assemblies



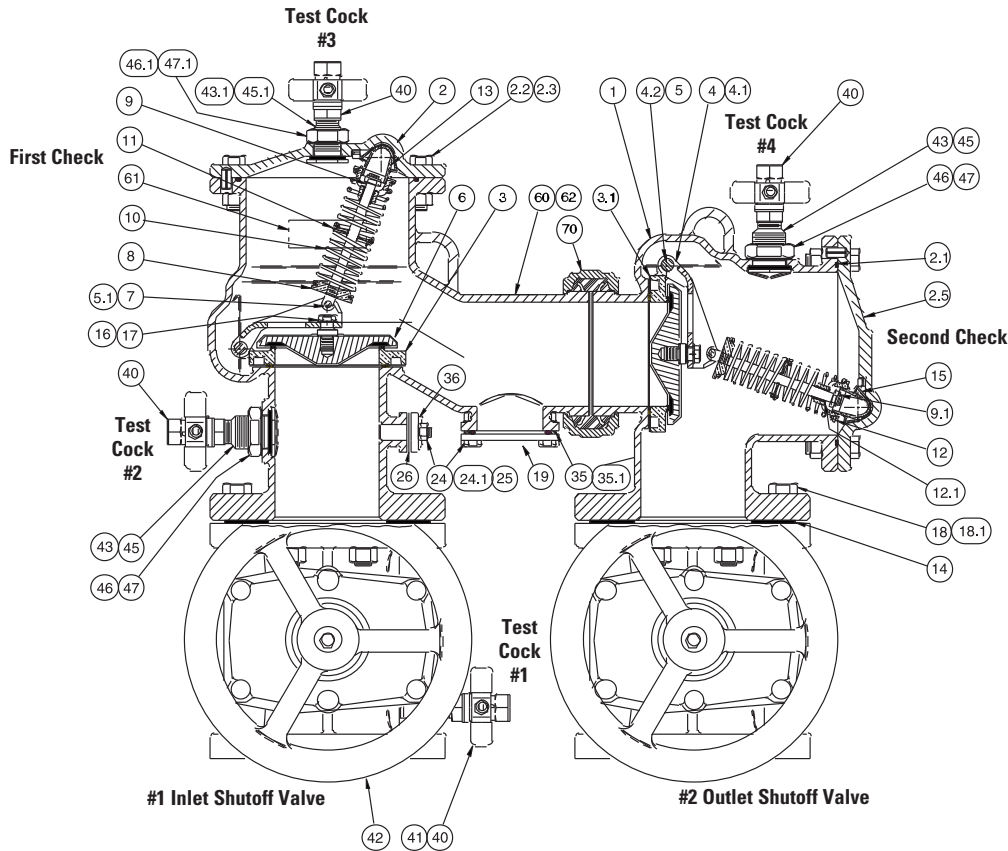
ITEM DESCRIPTION	STYLE	SIZE	2½" & 3" (65 - 80mm)	4" (100mm)	6" (150mm)	8" & 10" (200 - 250)
DISC ASSEMBLY Items 6, 16, 17	N-Shape Only	Part #	905182	905153	905154	905155
SINGLE SPRING MODULE Items 5.1, 7, 8, 9, 9.1, 10, 11, 12, 12.1	850	Part #	905142	905143	905144	905145
	856	Part #	905147	905148	905149	905150
CHECK REPLACEMENT KIT Items 2.1, and 3 - 17	850	Part #	905527	905534	905537	905539
	856	Part #	905529	905536	905538	905541
SEAT RING / ARM ASSEMBLY Items 3, 3.1, 3.2, 3.4, 4, 4.1, 4.2, 5	ALL	Part #	905157	905158	905159	905160
RUBBER PARTS KIT Items 2.1, 3.1, 6, 15, 26, 35, 35.1, 45, 45.1	ALL	Part #	905249	905163	905164	905165
COVER ASSEMBLY Items 2, 2.1, 15	With Bulkhead Fitting	Part #	905167	905168	905169	905170
	TAPPED	Part #	905376	905377	905378	905379
BULKHEAD FITTING FOR COVER* Items 43.1, 45.1, 46.1, 47.1	850	Part #	905275		905277	
	856	Part #	905275		905277	
BULKHEAD FITTING FOR BODY* Items 43, 45, 46, 47	850	Part #	905276		905277	
	856	Part #	905277			

*Bulkhead fittings are not furnished on late models. Very early productions of Series 856 may require a different bulkhead fitting. Consult your FEBCO representative for assistance.



Repair Parts 870, 870V / 876, 876V

2½" - 10" (65 - 250mm) Double Check / Double Check Detector Assemblies



ITEM DESCRIPTION	STYLE	SIZE	2½" & 3" (65 - 80mm)	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)
DISC ASSEMBLY Items 6, 16, 17 (10", Item 6 only)	ALL	Part #	905152	905153	905154	905155	400145
SINGLE SPRING MODULE Items 5.1, 7, 8, 9, 9.1, 10, 11, 12, 12.1	870, 870V	Part #	905142	905143	905144	905145	905146
	876, 876V	Part #	905147	905148	905149	905150	905151
CHECK REPLACEMENT KIT Items 2.1, and 3 - 17	870, 870V	Part #	905528	905534	905537	905539	905540
	876, 876V	Part #	905530	905536	905538	905541	905542
SEAT RING / ARM ASSEMBLY Items 3, 3.1, 3.2, 3.4, 4, 4.1, 4.2, 5	ALL	Part #	905157	905158	905159	905160	905161
RUBBER PARTS KIT Items 2.1, 3.1, 6, 15, 26, 35, 35.1, 45, 45.1	ALL	Part #	905162	905163	905164	905165	905166
COVER ASSEMBLY (Inlet Check)* Items 2, 2.1, 15	ALL	Part #	905167	905168	905169	905170	905171
COVER ASSEMBLY (Outlet Check)* Items 2, 2.1, 15	ALL	Part #	905244	905245	905246	905247	905248
BULKHEAD FITTING FOR COVER* Items 43.1, 45.1, 46.1, 47.1	870, 870V	Part #	905275			905277	
	876, 876V	Part #	905275			905277	
BULKHEAD FITTING FOR BODY* Items 43, 45, 46, 47	870, 870V	Part #	905276			905277	
	876, 876V	Part #	905277				

*Bulkhead fittings are not furnished on late models. Very early productions may require a different bulkhead fitting. Consult your FEBCO representative for assistance.



Model 825Y and YA (3/4–2") Parts

Model 825Y & YA Part Numbers (Sizes 3/4–2")

ITEM NO.	DESCRIPTION	QTY.*	SIZE 3/4"	SIZE 1"	SIZE 1 1/4"	SIZE 1 1/2"	SIZE 2"
3	Bushing	3	500-290	500-290	500-290	500-290	500-290
4	O-ring	2	398-202-72	398-202-72	398-202-72	398-202-72	398-202-72
5	Gasket	2	340-078	340-078	340-078	340-079	340-079
6	Capscrew	2	515-513-05	515-513-05	515-513-05	515-514-06	515-514-06
7	Cap	2	101-134	101-134	101-134	101-135	101-135
8	O-ring	2	398-226-72	398-226-72	398-226-72	398-235-72	398-235-72
9	Disc Holder	2	500-270	500-270	500-270	500-278	500-278
10	Seat Disc	2	400-099	400-099	400-099	400-103	400-103
11	Washer	2	300-084	300-084	300-084	300-108	300-108
12	Screw	2	516-543-03	516-543-03	516-543-03	516-543-03	516-543-03
13	Spring (Inlet)	1	630-125	630-125	630-125	630-137	630-137
14	Spring (Outlet)	1	630-115	630-115	630-115	630-118	630-118
15	Bolt	4	511-514-06	511-514-06	511-514-06	-----	-----
15	Bolt	8	-----	-----	-----	511-515-07	511-515-07
16	Cover	1	101-029	101-029	101-046	101-035	101-035
17	Diaphragm	1	400-101	400-101	400-101	400-104	400-104
18	Screw	1	700-107	700-107	700-107	519-513-03	519-513-03
19	Button	1	500-284	500-284	500-284	300-107	300-107
20	Spring	1	630-126	630-126	630-126	630-138	630-138
21	Mainstem	1	500-273	500-273	500-273	500-280	500-280
22	O-ring	1	398-113-72	398-113-72	398-113-72	398-120-72	398-120-72
23	Guide	1	500-277	500-277	500-277	500-281	500-281
24	O-ring	1	398-022-72	398-022-72	398-022-72	398-127-72	398-127-72
25	Seat Disc	1	400-102	400-102	400-102	400-105	400-105
26	Washer	1	300-104	300-104	300-104	300-105	300-105
27	Screw	1	700-137	700-137	700-137	519-513-03	519-513-03
101	Seat Ring (Relief Valve)	1	200-779	200-779	-----	200-780	200-780
102	O-ring (Relief Valve)	1	398-019-72	398-019-72	-----	398-026-72	398-026-72
103	Elbow (YA only)	2	101-194	101-195	-----	101-189	101-190
104	O-ring (YA only)	2	398-223-72	398-223-72	-----	398-230-72	398-230-72

* Quantity required per valve.

Shutoffs: Model 825Y & YA

ITEM NO.	DESCRIPTION	QTY.*	SIZE 3/4"	SIZE 1"	SIZE 1 1/4"	SIZE 1 1/2"	SIZE 2"
29	Ball Valve (Inlet)	1	781-053	781-054	781-055	781-056	781-057
29A	Ball Valve (Outlet)	1	781-048	781-049	781-050	781-051	781-052
30	Testcock	4	781-074	781-074	781-075	781-075	781-075

* Quantity required per valve.



Model 825Y, 825YR and YA (3/4-2") Parts (Cont.)

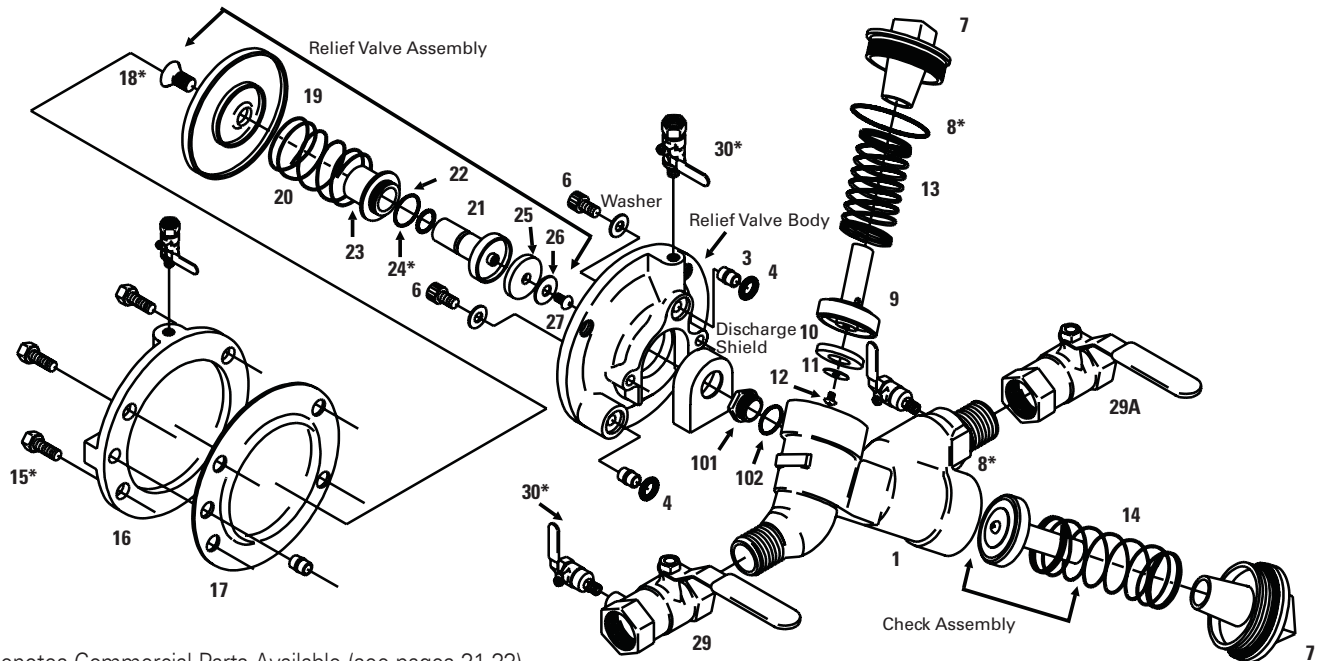
Assemblies / Kits: Model 825Y & YA

DESCRIPTION	QTY.*	SIZE 3/4"	SIZE 1"	SIZE 1 1/4"	SIZE 1 1/2"	SIZE 2"
Check Valve Rubber Kit (2 ea. 8, 10)	1 Kit	905-042	905-042	905-042	905-053	905-053
Relief Valve Rubber (1 ea. 17, 22, 24, 25)	1 Kit	905-043	905-043	905-043	905-054	905-054
Check Valve Assembly (1 ea. 8, 9, 10, 11, 12)	2 Assy.	905-044	905-044	905-044	905-055	905-055
Relief Valve Assembly (1 ea. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27)	1 Assy.	905-045	905-045	905-045	905-056	905-056
RV Seat Ring Kit (101, 102)	1 Kit	905-113	905-113	-----	905-114	905-114
Complete Rubber Parts Kit (3, 4, 5, 8, 10, 17, 22, 24, 25, 102)	1 Kit	905-111	905-111	905-111	905-112	905-112
825YR Seat Ring Repair Kit (35, 36)	1 Kit	905-280	905-280	-----	905-281	905-281

* Quantity required per valve.

Model 825Y (3/4-2")

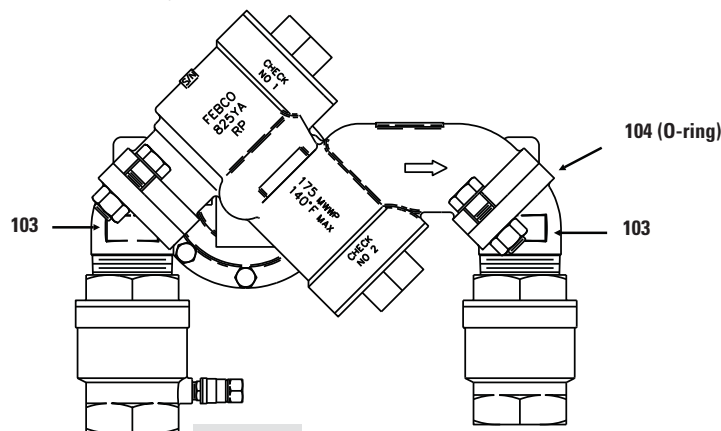
Figure No. 11



* Denotes Commercial Parts Available (see pages 31-33).
 Unit is shown with ball valve shutoffs.
 Some parts are sold in kits only. Consult Parts Price List for specifics.

Model 825YA (3/4-2")

Figure No. 12

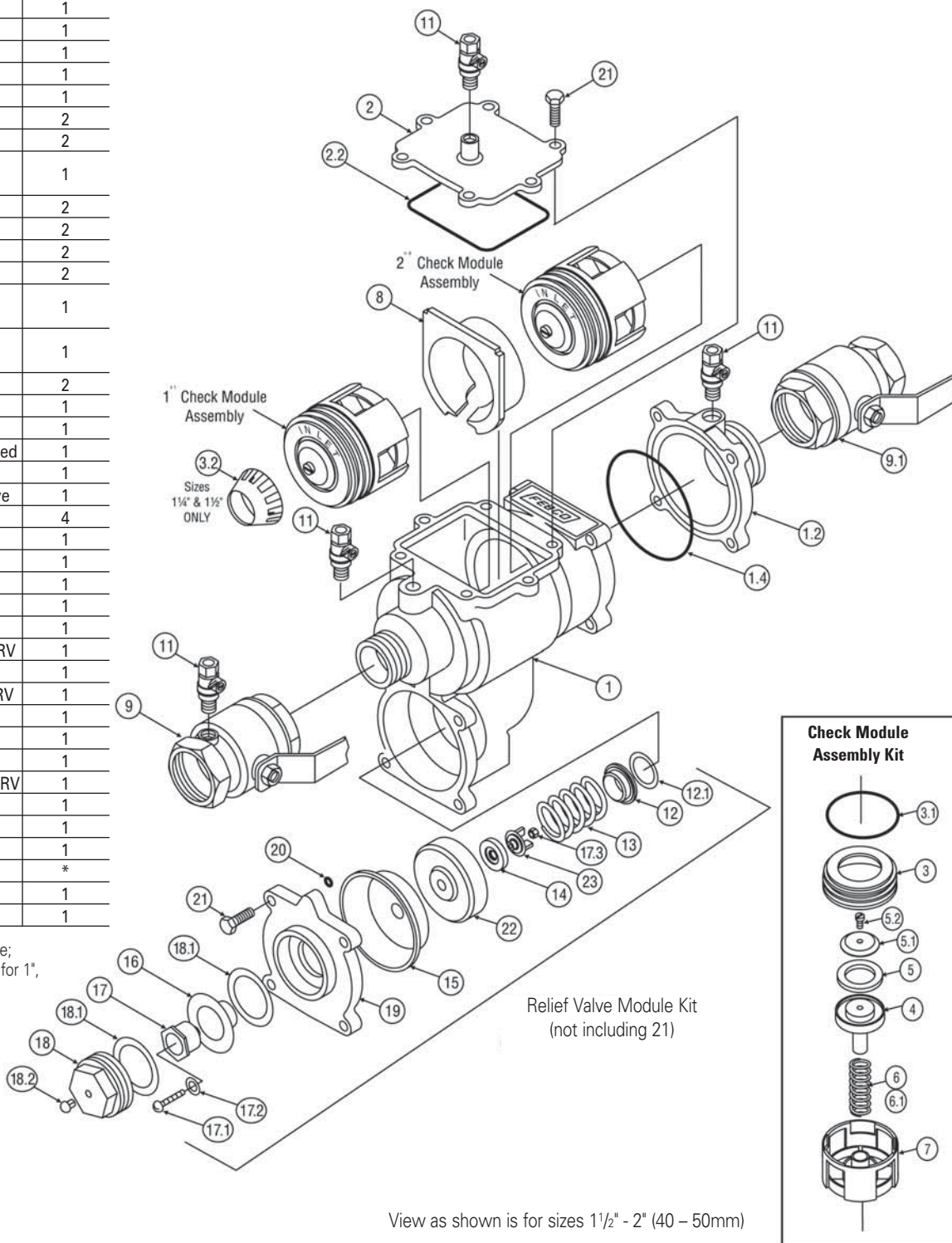




Exploded View

ITEM	DESCRIPTION	QUANTITY
1	Body	1
1.2	Tailpiece	1
1.4	O-Ring	1
2	Cover	1
2.2	O-Ring	1
3	Seat	2
3.1	O-Ring	2
3.2	Inlet Ring (1 1/4" & 1 1/2")	1
4	Poppet	2
5	Seat Disc	2
5.1	Disc Retainer	2
5.2	Round HD Screw	2
6	Spring (1st Check Spring)	1
6.1	Spring (2nd Check Spring)	1
7	Guide	2
8	Retainer Spacer	1
9*	Ball Valve Tapped Union End BV Tapped	1
9.1*	Ball Valve Union End Ball Valve	1
11	Test Cock	4
12	Seat Ring - RV	1
12.1	Gasket Ring - RV	1
13	Spring - RV	1
14	Seat Disc - RV	1
15	Diaphragm - RV	1
16	Outer Diaphragm - RV	1
17	Small Piston - RV	1
17.1	Round HD Screw - RV	1
17.2	Washer - RV	1
17.3	Hex Nut - RV	1
18	Cylinder - RV	1
18.1	Slip Ring Cylinder - RV	1
18.2	Slide (Plug) - RV	1
19	Cover - RV	1
20	O-Ring - RV	1
21	Hex HD Capscrew	*
22	Large Piston - RV	1
23	Guide - RV	1

* Quantity varies with valve size;
6 each for 1/2" and 3/4", 8 each for 1",
14 each 1 1/4", 1 1/2", 2"



View as shown is for sizes 1 1/2" - 2" (40 - 50mm)



Repair Kits

How to order parts and Repair Kits

1. Locate item number and kit number in this maintenance manual.
2. Verify the size of the valve the parts are to be used on.
3. Provide full model number located on I.D. plate.
4. Give kit number.
5. A serial number (located on the I.D. plate) will assist in ordering the proper kits.
6. Contact your local FEBCO Parts Distributor.

Check Module Rubber Kit

	1/2" (15mm)	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Part No.	905342	905342	905343	905344	905344	905344
ALL SIZES INCLUDE:						
ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.	QTY.
1.4	O-Ring	1	3.1	O-Ring	2	2
2.2	O-Ring	1	5	Seat Disc	2	2

Relief Valve Rubber Kit

	1/2" (15mm)	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Part No.	905345	905345	905345	905346	905346	905346
ALL SIZES INCLUDE:						
ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.	QTY.
12	Seat Ring - RV	1	16	Outer Diaphragm - RV	1	1
12.1	Gasket Ring - RV	1	18.1	Slip Ring Cylinder - RV	2	2
14	Seat Disc - RV	1	20	O-Ring - RV	1	1
15	Diaphragm - RV	1				



Repair Kits (Continued)

1st Check Module Assembly

	1/2" (15mm)	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Part No.	905348	905348	905350	905352	905352	905352
ALL SIZES INCLUDE:						
ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.	
3	Seat	1	5.1	Disc Retainer	1	
3.1	O-Ring	1	5.2	Round HD Screw	1	
4	Poppet	1	6.1	Spring	1	
5	Seat Disc	1	7	Guide	1	

2nd Check Module Assembly

	1/2" (15mm)	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Part No.	905347	905347	905349	905351	905351	905351
ALL SIZES INCLUDE:						
ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.	
3	Seat	1	5.1	Disc Retainer	1	
3.1	O-Ring	1	5.2	Round HD Screw	1	
4	Poppet	1	6	Spring	1	
5	Seat Disc	1	7	Guide	1	

Relief Valve Module Assembly Kit

	1/2" (15mm)	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Part No.	905353	905353	905353	905354	905354	905354
ALL SIZES INCLUDE:						
ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.	
12	Seat Ring - RV	1	17.3	Hex Nut - RV	1	
12.1	Gasket Ring - RV	1	18	Cylinder	1	
13	Spring - RV	1	18.1	Slip Ring Cylinder - RV	2	
14	Seat Disc - RV	1	18.2	Slide Plug	1	
15	Diaphragm - RV	1	19	Cover	1	
16	Outer Diaphragm - RV	1	20	O-Ring - RV	1	
17	Small Piston - RV	1	22	Large Piston - RV	1	
17.1	Round HD Screw - RV	1	23	Guide - RV	1	
17.2	Washer - RV	1				



Model 860/880V (2½" - 10") Parts List

Item	Description	Quantity	2½"	3"	4"	6"	8"	10"
1	Body (860)	1	880-131	880-132	880-133	880-134	880-135	N/A
	Body (880V)	1	880-193	880-194	880-188	880-189	880-190	880-191
1.1	Pipe Plug (860)	1	578-171-50	578-171-50	578-171-50	578-171-50	578-171-50	N/A
1.2	Bushing	1	571-161-54	571-161-54	571-161-54	571-161-54	571-161-54	
2	Cover (860)	2	880-250	880-250	880-251	880-252	880-253	N/A
	Cover 1 st Check (880V)	1	880-192	880-192	880-175	880-176	880-177	880-178
2.1	O-Ring	2	39625579	39625579	396-261-79	396-269-79	396-276-79	396-279-79
2.2	Capscrew	16	51101614	51101614	511-017-14	511-019-18	511-020-18	511-020-20
2.3	Hex Nut	16	52101600	52101600	521-017-00	521-101-90	521-020-00	521-020-00
2.4	Expansion Pin	2	360-089	360-089	360-089	360-089	360-089	360-089
2.5	Cover 2 nd Check (880V)	1	880-106	880-106	880-107	880-108	880-109	880-110
3	Seat Ring	2	110-071	110-071	110-072	101-259	110-074	101-261
3.1	Gasket	2	450-102	450-102	450-106	450-108	450-109	450-110
3.2	Socket Head Screw	8	517-514-10	517-514-10	517-514-10	517-514-10	517-514-10	517-514-12
3.4	Elastic Stop Nut	8	523-514-00	523-514-00	523-514-00	523-514-00	523-514-00	523-514-00
4	Arm	2	101-212	101-212	101-207	101-208	101-210	101-211
4.1	Bushing Swing Pin	4	500-338	500-338	500-338	500-388	500-338	500-337
4.2	Swing Pin	2	240-137	240-137	240-137	240-138	240-139	240-140
5	Retaining Clip	4	740-118	740-118	740-118	740-118	740-118	740-119
5.1	Hairpin Cotter	4	740-120	740-120	740-120	740-120	740-120	740-120
6	Check Disk (860)	2	402-014	402-014	402-006	402-007	402-008	N/A
	Check Disk (880V)	2	402-030	402-030	402-031	402-032	402-008	N/A
	Seat Disk (10"-880V)	2	N/A	N/A	N/A	N/A	N/A	400-145
6.1	Disk Holder (10"-880V)	2	N/A	N/A	N/A	N/A	N/A	190-029
6.2	Disk Retainer (10"-880V)	2	N/A	N/A	N/A	N/A	N/A	190-034
6.3	Capscrew (10"-880V)	6	N/A	N/A	N/A	N/A	N/A	511-515-05
7	Load Pin	2	240-130	240-130	240-130	240-131	240-131	240-132
8	Lwr Spring Retainer	2	101-203	101-203	101-203	101-204	101-204	101-205
9	Spring Stem	2	240-116	240-116	240-117	240-118	240-119	240-120
9.1	Elastic Stop Jam Nut	2	720-054	720-054	720-054	720-055	720-055	720-055
10	Spring 1 st Check	2	630-154	630-154	630-155	630-156	630-157	630-158
10.1	Spring 2 nd Check	2	630-162	630-162	630-163	630-151	630-164	630-165
10.2	Spring Shim 2 nd Check (8")	1	N/A	N/A	N/A	N/A	500-354	N/A
11	Spring Guide	2	360-086	360-086	360-086	360-087	360-087	101-217
12	Upr Spring Retnr	2	101-216	101-216	101-216	101-206	101-206	101-221
12.1	Bushing-Spr. Stem	2	500-344	500-344	500-344	500-345	500-345	500-340
13	Pivot Bearing	2	101-218	101-218	101-218	101-219	101-219	101-220
14	Flange Gasket	2	780-365	780-366	780-367	780-368	780-369	780-370
15	Bearing Socket	2	500-335	500-335	500-335	500-336	500-336	500-336
16	Hex Jam Nut	2	524-515-00	524-515-00	524-515-00	524-517-00	524-517-00	511-517-06
17	Washer	2	360096	360-096	360-096	360-097	360-097	360-097
18	Flange Bolt	()	(8)511-019-22	(8)511-019-22	(12)511-019-22	(12)511-019-22	(12)511-019-22	(24)511-019-22
18.1	Flange Nut	()	(8)511-019-22	(8)511-019-22	(20)511-019-22	(20)511-019-22	(20)511-019-22	(24)511-019-22
18.2	Flange Stud	4	N/A	N/A	513-019-26	513-019-26	513-019-26	N/A
20	R.V. Cover	1	110-012	110-012	110-012	110-012	110-012	110-012
20.1	Bleed Screw	2	519-513-03	519-513-03	519-513-03	519-513-03	519-513-03	519-513-03

Note: Many of the above items are only available as part of a repair kit.



Model 860/880V (2 1/2" - 10") Parts List (continued)

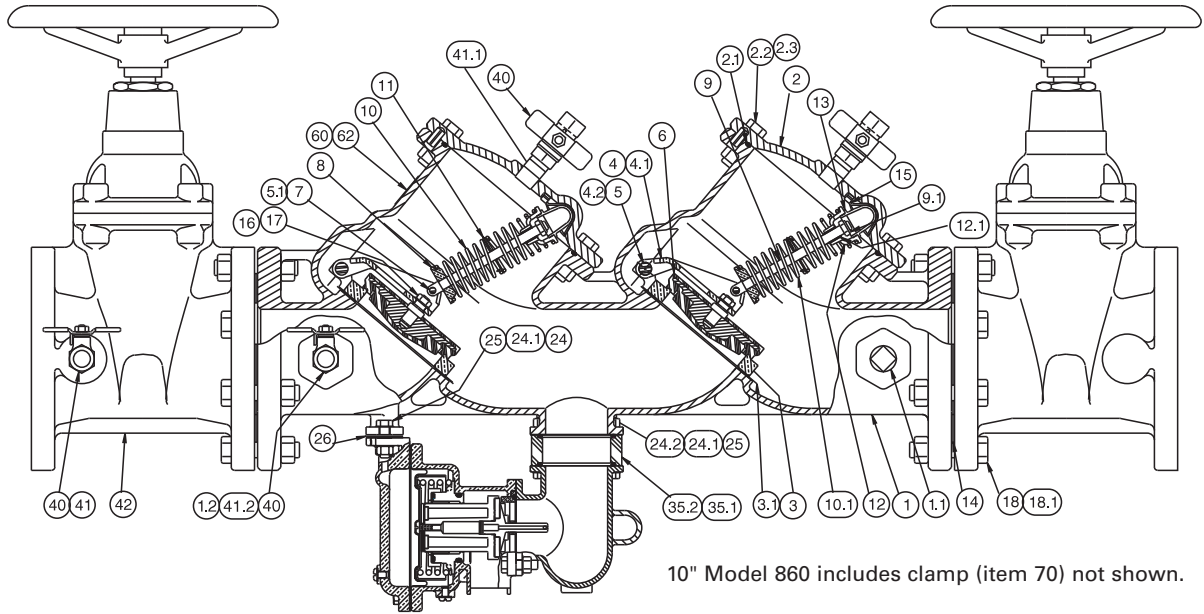
Item	Description	Quantity	2 1/2"	3"	4"	6"	8"	10"
20.2	Gasket	2	340-078	340-078	340-078	340-078	340-078	340-078
21	R.V. Body	1	110-011	110-011	110-011	110-011	110-011	110-011
22	Cover Bolt	8	511-515-08	511-515-08	511-515-08	511-515-08	511-515-08	511-515-08
23	Elbow	1	880-154	880-154	880-154	880-154	880-154	880-154
24	RV Mtg Bolt	4	511-014-10	511-014-10	511-014-10	511-014-10	511-014-10	511-014-10
24.1	Washer - RV	4	360-090	360-090	360-090	360-090	360-090	360-090
24.2	Cap Screw	4	511-014-18	511-014-18	511-014-18	511-014-18	511-014-18	N/A
25	Nut	4	521-014-00	521-014-00	521-014-00	521-014-00	521-014-00	521-014-00
26	Gasket/Strainer	1	450-107	450-107	450-107	450-107	450-107	450-107
27	Lrg. Diaphragm	1	400-108	400-108	400-108	400-108	400-108	400-108
28	Button	1	300-118	300-118	300-118	300-118	300-118	300-118
28.1	Flow Screw	1	240-136	240-136	240-136	240-136	240-136	240-136
29	RV Spring	1	630-168	630-168	630-168	630-168	630-168	630-168
30	Stem - RV	1	500-399	500-399	500-399	500-399	500-399	500-399
31	Main Guide - RV	1	110-013	110-013	110-013	110-013	110-013	110-013
31.1	O-Ring - RV	1	396-230-79	396-230-79	396-230-79	396-230-79	396-230-79	396-230-79
32	Seat Disc - RV	1	400-123	400-123	400-123	400-123	400-123	400-123
33	Lower Guide	1	500-342	500-342	500-342	500-342	500-342	500-342
34	Seat Ring	1	110-015	110-015	110-015	110-015	110-015	110-015
34.1	O-Ring	1	396-229-79	396-229-79	396-229-79	396-229-79	396-229-79	396-229-79
35	O-Ring	2	396-233-79	396-233-79	396-233-79	396-233-79	396-233-79	396-233-79
35.1	Back-Up Ring	1	500-350	500-350	500-350	500-350	500-350	500-350
35.2	Extension	1	500-388	500-388	500-388	500-388	500-388	500-388
36	Adaptor Plate (880V)	1	101-252	101-252	101-252	101-252	101-252	101-252
37	Sm. Diaphragm	1	400-109	400-109	400-109	400-109	400-109	400-109
38	Retainer	1	110-014	110-014	110-014	110-014	110-014	110-014
38.1	Slip Ring	1	340-103	340-103	340-103	340-103	340-103	340-103
39	Flow Washer	1	500-387	500-387	500-387	500-387	500-387	500-387
40	Ball Valve	4	781-047	781-047	781-047	781-048	781-048	781-048
41	Nipple	1	571-181-45	571-181-45	781-181-45	571-181-53	571-181-56	571-181-56
41.1	Nipple (860)	2	571-181-43	571-181-43	571-181-43	571-181-53	571-181-53	N/A
41.2	Nipple (860)	1	571-181-44	571-181-44	571-181-44	571-181-55	571-181-55	N/A
42	Gate Valve (NRS)	2	781-005	781-006	781-007	781-008	781-009	781-010
	Gate Valve (OSY)	2	780-891	780-893	781-895	780-897	780-899	780-901
43	Bulkhead Fitting (880V)	2	110-003	110-003	110-003	101-249	101-249	101-249
43.1	Bulkhead Fitting (880V)	1	101-237	101-237	101-237	101-249	101-249	101-249
45	Gasket (880V)	2	450-105	450-105	450-105	450-105	450-105	450-105
45.1	Gasket (880V)	1	450-104	450-104	450-104	450-105	450-105	450-105
47	Nut (880V)	2	101-251	101-251	101-251	101-251	101-251	101-251
47.1	Nut (880V)	1	101-250	101-250	101-250	N/A	N/A	N/A
50	Sensing Line (880V)	1	781-159	781-159	781-159	781-159	781-159	781-159
51	Street Elbow (880V)	2	200-830	200-830	200-830	200-830	200-830	200-830
60	Identification Plate	1	380-113	380-113	380-113	380-113	380-113	380-113
62	Drive Screw	1	781-224	781-224	781-244	781-224	781-224	781-224
70	Clamp	1	781-179	781-179	781-180	781-181	781-182	781-183

Note: Many of the above items are only available as part of a repair kit. Bulkhead fittings are not furnished on the Model 860. Item 70 used on 880V (2 1/2"-10") and 860 (10") only.



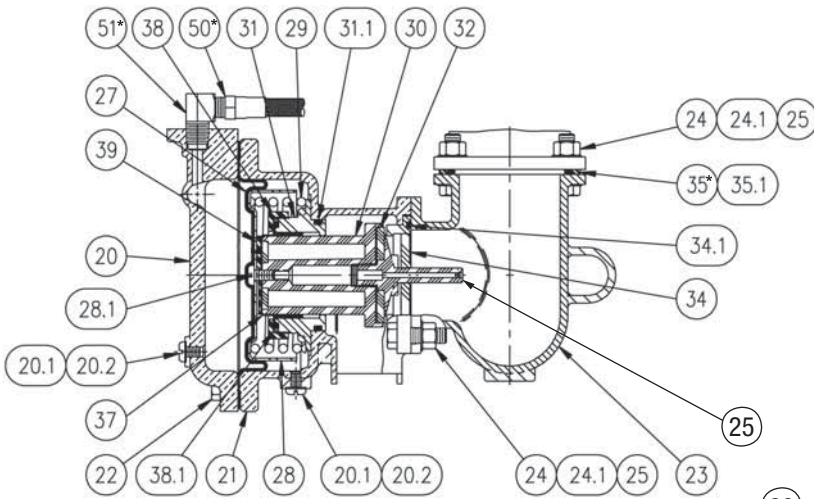
Model 860 Cut-A-Way

Figure #6



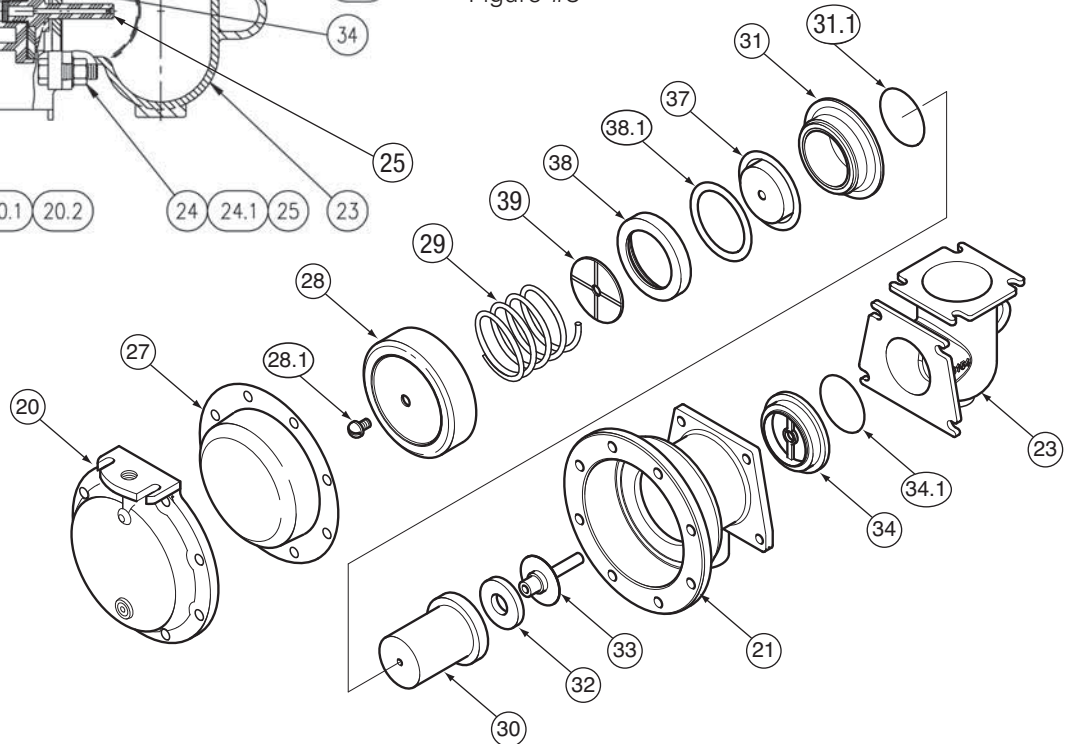
Relief Valve Cut-A-Way (2 1/2" - 10")

Figure #7



Relief Valve Exploded (2 1/2" - 10")

Figure #8

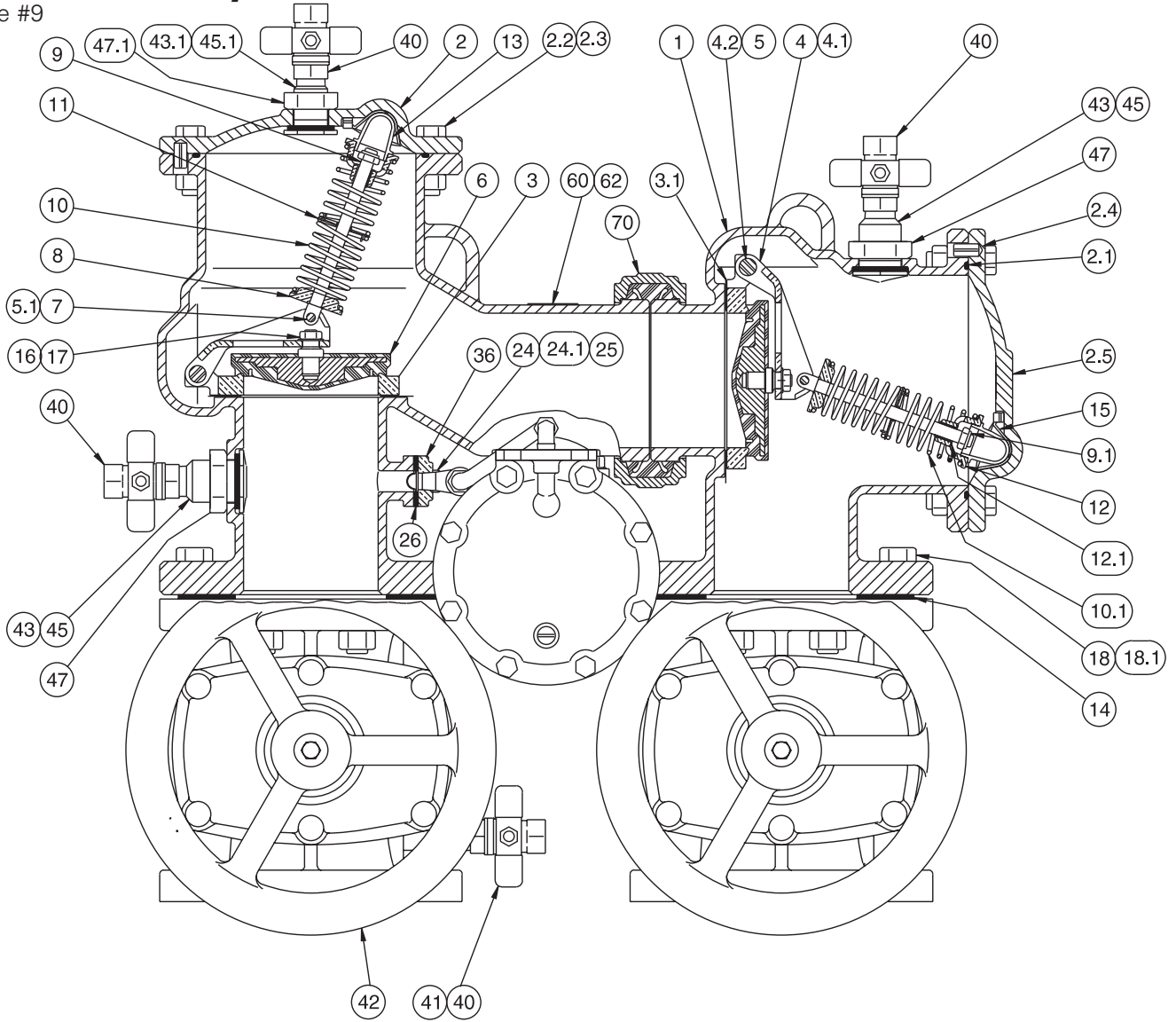


* Model 880, 880V only.



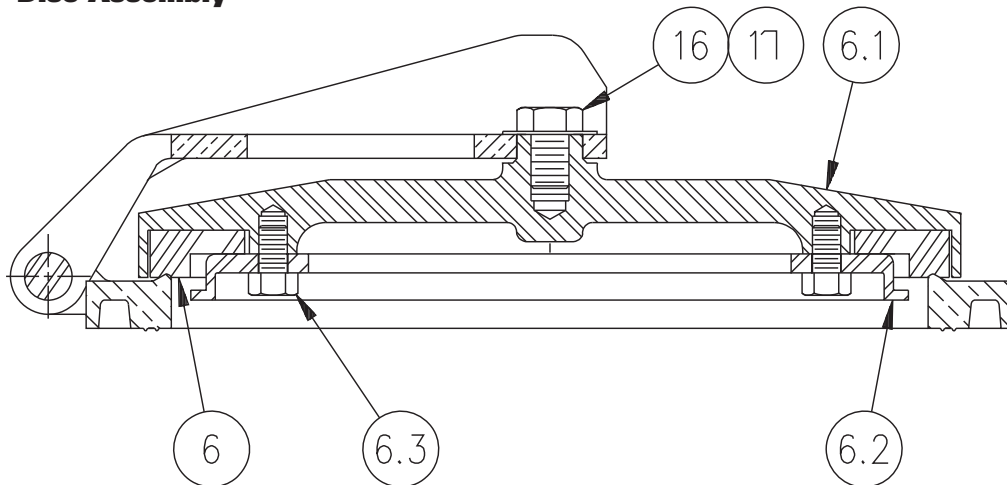
Model 880V Cut-A-Way

Figure #9



880V Only 10" Disc Assembly

Figure #10





Repair Kits

How to order parts and repair kits.

1. Locate item number and kit number in this maintenance manual.
2. Verify the size of the valve the parts are to be used on.
3. Provide full model number located on I.D. plate.
4. Give kit number.
5. A serial number (located on the I.D. plate) will assist in ordering the proper kits.
6. Contact your local FEBCO Parts Distributor.

Kit Description		2 1/2"	3"	4"	6"	8"	10"
CHECK REPLACEMENT KIT Items 2.1, 3, 3.1, 3.2, 3.4, 4, 4.1, 4.2, 13, 15, 16, 17	860 (inlet)	905-543	905-543	905-546	905-550	905-554	905-554
	860 (outlet)	905-527	905-527	905-547	905-551	905-555	905-555
	880V (inlet)	905-544	905-544	905-548	905-552	905-554	905-556
	880V (outlet)	905-545	905-545	905-549	905-553	905-555	905-557
860/880V RP INLET SPRING MODULE Items 2.1, 5.1, 7, 8, 9, 9.1, 10, 11, 12, 12.1		905-172	905-172	905-173	905-174	905-175	905-176 (860) 905-175 (860)
860/880V RP OUTLET SPRING MODULE Items 2.1, 5.1, 7, 8, 9, 9.1, 10.1, 10.2*, 11, 12, 12.1		905-142	905-142	905-143	905-144	905-145	905-145 (860) 905-146 (880)
860 DISC ASSEMBLY Items 2.1, 6, 16, 17		905-182	905-182	905-183	905-184	905-185	905-185
880V DISC ASSEMBLY Items 6, 16, 17 - (10" - item 6 only)		905-224	905-224	905-225	905-226	905-185	400-145
SEAT RING / ARM ASSEMBLY Items 3, 3.1, 3.2, 3.3, 3.4, 4, 4.1, 4.2, 5							905-160 (860) 905-161 (880)
		905-157	905-157	905-158	905-159	905-160	
860 RUBBER PARTS KIT (CHECKS AND RV) Items 2.1, 3.1, 6, 15, 16, 17, 26, 27, 31.1, 32, 34.1, 35.1, 35.2, 45, 45.1		905-187	905-187	905-188	905-189	905-190	905-190
880V RUBBER KIT (CHECKS AND RV) Items 2.1, 3.1, 6, 15, 16, 17, 26, 27, 31.1, 32, 34.1, 35, 35.1, 37, 45, 45.1		905-227	905-227	905-228	905-229	905-190	905-191
860 RELIEF VALVE REPAIR KIT Items 26, 27, 28, 28.1, 29, 30, 31, 31.1, 32, 33, 34, 34.1, 37, 38, 38.1, 39		905-192	905-192	905-192	905-192	905-192	905-192

* 8" only



Repair Kits (continued)

Kit Description	2 1/2"	3"	4"	6"	8"	10"
880V RELIEF VALVE INTERNAL ASSEMBLY KIT Items 27, 28, 28.1, 29, 30, 31, 31.1, 32, 33, 34, 34.1, 37, 38, 38.1, 39	905-320	905-320	905-320	905-320	905-320	905-320
860 COVER ASSEMBLY BOTH CHECKS (TAPPED)	905376	905376	905377	905378	905379	905379
880V INLET CHECK ONLY Items 2, 2.1, 15	905-167	905-167	905-168	905-169	905-170	905-170 (860) 905-171 (880)
880V COVER ASSEMBLY OUTLET CHECK ONLY Items 2.1, 2.5, 15 (BLANK)	905-244	905-244	905-245	905-246	905-247	905-248
BULKHEAD FITTINGS ASSEMBLY COVER Items 43.1, 45.1, 46.1, 47.1	905-275	905-275	905-275	-	-	-
BULKHEAD FITTINGS ASSEMBLY BODY Items 43, 45, 46, 47	905-276	905-276	905-276	-	-	-
BULKHEAD FITTINGS ASSEMBLY BODY AND COVER Items 43, 45, 46, 47	-	-	-	905-277	905-277	905-277
BULKHEAD PLUG ASSEMBLY 2ND CHECK COVER (N & V UNITS) EARLY PROD. Items 44, 45.1, 46.1, 47.1	905-278	905-278	905-278	-	-	-
BULKHEAD PLUG ASSEMBLY 2ND CHECK COVER (N & V UNITS) EARLY PROD. Items 44, 45, 46, 47	-	-	-	905-279	905-279	905-279
860 RELIEF VALVE ASSEMBLY Items 24, 24.1, 24.2, 25, 35.1, 35.2, 201	905-294	905-294	905-294	905-294	905-294	905-294
880V RELIEF VALVE ASSEMBLY Items 24, 24.1, 25, 26, 35.1, 36, 50, 51, 201	905-295	905-295	905-295	905-295	905-295	905-295
860 CHECK RUBBER KIT Items 2.1, 3.1, 6, 15, 16, 17, 26, 35.1, 35.2, 45, 45.1	905-409	905-409	905-410	905-411	905-412	905-412
880V CHECK RUBBER KIT Items 2.1, 3.1, 6, 15, 16, 17, 26, 35, 35.1, 45, 45.1	905-413	905-413	905-414	905-415	905-412	905-416
860/880V Relief Valve Rubber Kit Items 26, 27, 31.1, 32, 34.1, 37	905-316	905-316	905-316	905-316	905-316	905-316

Many of the above items are only available as part of a repair kit.

Note: Bulkhead fittings are not furnished on the Model 860.



Service, Replacement Parts and Maintenance

Servicing the First and Second Check Valves

NOTE: Before servicing be certain water is turned off or shutoff valves are closed

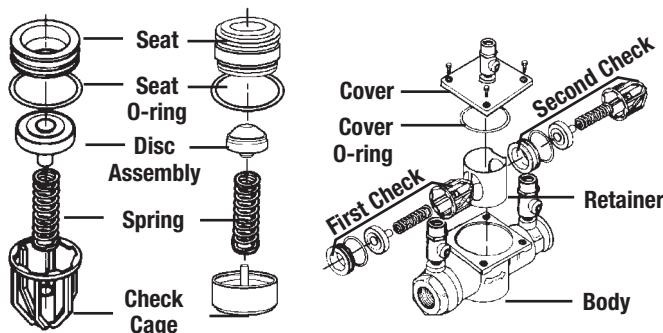
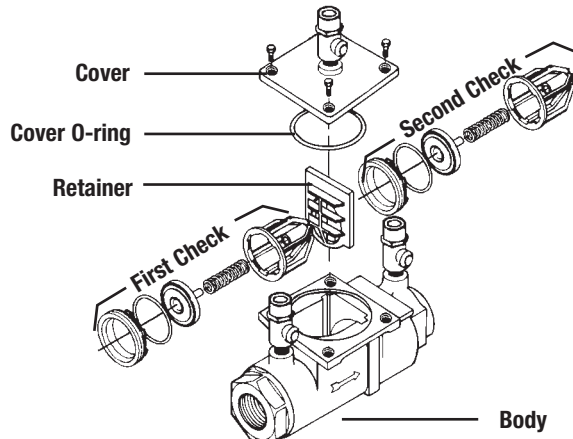
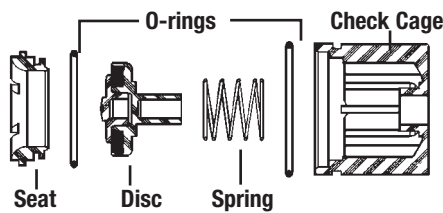
1. After removing the cover, remove the retainer for the body bore. The check valve modules can now be removed from the valve by hand or with a screwdriver.

Note: For Series 007 sizes 1/2" - 2" (15-50mm), the seats and springs of the first and second check modules are not interchangeable. The heavier spring and smaller diameter seat belong with the first check module. Series 007M1 sizes 3/4" - 1" (20-25mm) and Series 007M2 3/4" (20mm) have interchangeable seats and springs.

2. The check seats are attached to the cage with a bayonet type locking arrangement. Holding the cage in one hand, push the seat inward and rotate clockwise against the cage, for 3/4" (20mm) Series 007M2 pull apart seat and cage. The seat, cage, spring and disc assembly are now individual components.

3. The disc assembly may now be cleaned and reassembled or, depending on its condition, it may be discarded and replaced with a new assembly from the repair kit. O-rings should be cleaned or replaced as necessary.

4. Reassemble the check valve module in the reverse order. Check modules are installed in the valve body with the seats facing the valve inlet. The modules must be securely in place before the retainer can be replaced. On the 3/4" - 1" (20-25mm) size, this retainer may have to be tilted slightly into place. Replace cover.



1/2" - 2" Replacement Parts

When ordering, specify ordering code number, kit number and valve size

Check Kits: 1st or 2nd Check

ORDERING CODE	KIT NO.	SIZE	
		in.	mm
0887193	RK 007 CK4	1/2	15
0887026	RK 007M1 CK4	3/4 - 1	20-25
0887377	*RK SS007 CK4	1/2	15
0888070	*RK SS007M3 CK1	1/2 - 3/4	15-20
0888071	*RK SS007M3 CK2	1/2 - 3/4	15-20
0887393	*RK SS007M2 CK1	3/4	20
0887397	*RK SS007M2 CK2	3/4	20
0887373	*RK SS007M1 CK4	1	25

1st Check

0887023	RK 007 CK1	3/4 - 1	20-25
0887045	RK 007M2 CK1	3/4	20
0888550	RK 007M3 CK1	3/4	20
0887025	RK 007 CK1	1 1/2 - 2	40-50
0887186	RK 007M1 CK1	1 1/2 - 2	40-50
0887719	RK 007M2 CK1	1 1/4 - 1 1/2	32-40

2nd Check

0887024	RK 007 CK2	3/4 - 1	20-25
0887046	RK 007M2 CK2	3/4	20
0888551	RK 007M3 CK2	3/4	20
0887028	RK 007 CK2	1 1/2 - 2	32-50
0887187	RK 007M1 CK2	1 1/2 - 2	32-50
0887720	RK 007M2 CK2	1 1/4 - 1 1/2	32-40

Stainless Steel 1st or 2nd Check

0887022	RK 007 CK1 SS	3/4 - 1	20-25
0887030	RK 007 CK2 SS	3/4 - 1	20-25
0887032	RK 007M1 CK4 SS	3/4 - 1	20-25
0887031	RK 007 CK1 SS	1 1/2 - 2	40-50
0887035	RK 007 CK2 SS	1 1/2 - 2	40-50
0887189	RK 007M1 CK1 SS	1 1/2 - 2	40-50
0887190	RK 007M1 CK2 SS	1 1/2 - 2	40-50

Kit includes: Seat, seat o-ring, disc assembly, spring, check cage, cover o-ring.

Cover Kit

0887195	RK 007 C	1/2	15
0887036	RK 007 C	3/4 - 1	20-25
0887038	RK 007M1 C	3/4 - 1	20-25
0887039	RK 007M2 C	3/4	20
0888553	RK 007M3 C	3/4	20
0887037	RK 007 C	1 1/2 - 2	40-50
0887191	RK 007M1 C	1 1/2 - 2	40-50
0887722	RK 007M2 C	1 1/4 - 1 1/2	32-40
0887379	*RK SS007 C	1/2	15
0887380	*RK SS007M2 C	3/4	20
0888073	*RK SS007M3 C	1/2 - 3/4	15-20
0887381	*RK SS007M1 C	1	25

Kit includes: Cover and cover o-ring

Complete Rubber Parts

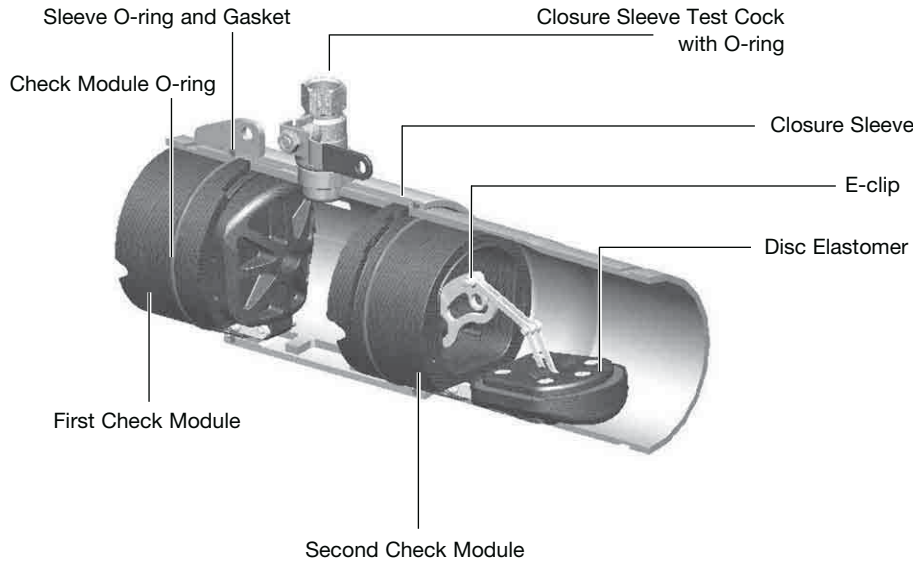
0887194	RK 007 RT	1/2	15
0887040	RK 007 RT	3/4 - 1	20-25
0887042	RK 007M1 RT	3/4 - 1	20-25
0887043	RK 007M2 RT	3/4	20
0888552	RK 007M3 RT	3/4	20
0887041	RK 007 RT	1 1/2 - 2	40-50
0887188	RK 007M1 RT	1 1/2 - 2	40-50
0887721	RK 007M2 RT	1 1/4 - 1 1/2	32-40
0887378	*RK SS007 RT	1/2	15
0887394	*RK SS007M2 RT	3/4	20
0888072	*RK SS007M3 RT	1/2 - 3/4	15-20
0887374	*RK SS007M1 RT	1	25

Kit includes: Cover o-ring, two seat discs and two seat o-rings.

*SS prefix denotes stainless steel body.



Series 757, 757N, 757DCDA, LF757DCDA 757NDCDA, LF757NDCDA Repair Kits



ORDERING NO.	SIZE		DISC	MODEL
	in.	mm		

1st Check Kits

7018128	2½ - 4	65-100	Red Silicone	RK 757/757DCDA CK1
7018131	6	150	Red Silicone	RK 757/757DCDA CK1
7018134	8	200	Red Silicone	RK 757/757DCDA CK1
0899200	10	250	Red Silicone	RK 757/757DCDA CK1

Kit consists of: First check module, Check module O-ring and Disc elastomer

2nd Check Kits

7018130	2½ - 4	65-100	Red Silicone	RK 757/757DCDA CK2
7018133	6	150	Red Silicone	RK 757/757DCDA CK2
0899206	8	200	Red Silicone	RK 757/757DCDA CK2
0899201	10	250	Red Silicone	RK 757/757DCDA CK2

Kit consists of: Second check module, Check module O-ring and Disc elastomer

ORDERING NO.	SIZE		DISC	MODEL
	in.	mm		

1st or 2nd Check Rubber Parts Kits

0899202	2½ - 4	65-100	Red Silicone	RK 757/757DCDA RC4
0899203	6	150	Red Silicone	RK 757/757DCDA RC4
0899204	8	200	Red Silicone	RK 757/757DCDA RC4
0899205	10	250	Red Silicone	RK 757/757DCDA RC4

Kit consists of: Check module O-ring, Disc elastomer and E-clip

Check Sleeve Cover Kits

0899211	2½ - 4	65-100	-	RK 757/757DCDA C
0899212	6	150	-	RK 757/757DCDA C
0899213	8	200	-	RK 757/757DCDA C
0899214	10	250	-	RK 757/757DCDA C

Kit consists of: Closure sleeve, Sleeve O-ring and Gasket



A Watts Water Technologies Company

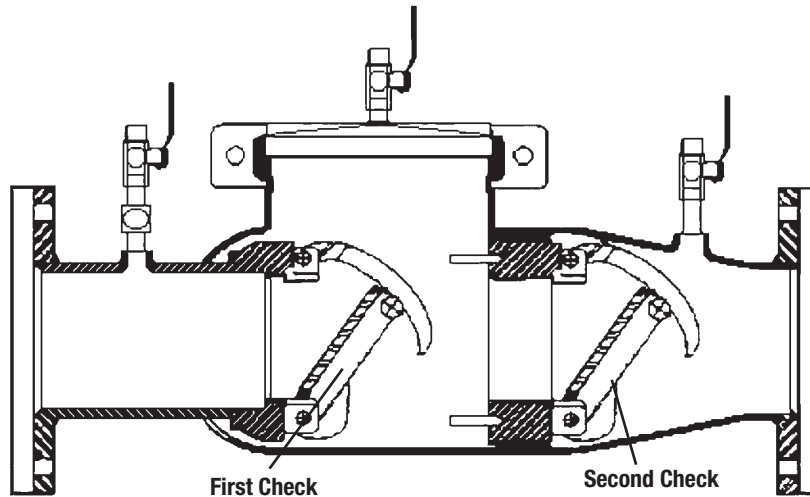


USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca



Watts Series 774/744DCDA 2½"- 6"



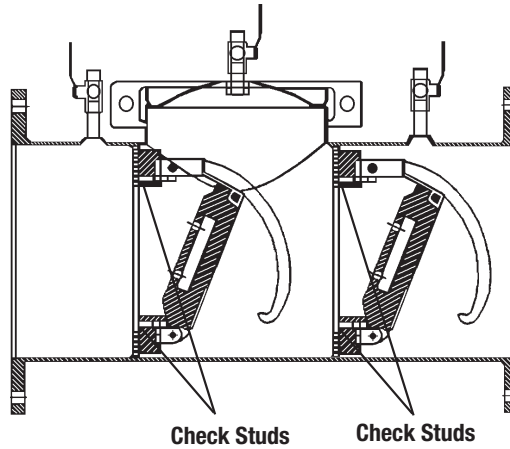
774/774DCDA Repair Kits

EDP NO	KIT NO.	in.	mm	SIZE
First Check Kit				
0888820	RK 774/774DCDA CK 1	2½ - 4	65 - 100	2½"-4" 774/774DCDA / 6" 774X/774XDCDA
0888821	RK 774/774DCDA CK 1	6	150	6" 774/774DCDA / 8" 774X/774XDCDA
Kits include: Complete #1 Check with Check O-ring.				
Second Check Kit				
0888822	RK 774/774DCDA CK 2	2½ - 4	65 - 100	2½"-4" 774/774DCDA / 6" 774X/774XDCDA
0888823	RK 774/774DCDA CK 2	6	150	6" 774/774DCDA / 8" 774X/774XDCDA
Kits include: Complete #2 Check with Check O-ring.				
Cover Kit				
0888824	RK 774/774DCDA C	2½ - 4	65 - 100	2½"-4" 774/774DCDA
0888825	RK 774/774DCDA C	6	150	6" 774/774DCDA / 8" 774X/774XDCDA
0888826	RK 774X/774XDCDA C	6	150	6" 774X/774XDCDA

Kit includes: Cover, Grooved Coupler & Gasket.



Watts Series 774/744DCDA 8"- 12"

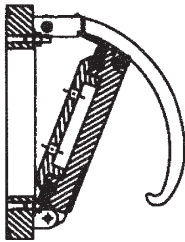


774/774DCDA Repair Kits

EDP NO	KIT NO.	SIZE	
		in.	mm
First or Second Check Kit			
0888827	RK 774/774DCDA CK 4	8, 10, 12	200, 250, 300
Kits include: Complete Check with Check O-ring.			
Cover Kit			
0888828	RK 774/774DCDA C	8, 10, 12	200, 250, 300
Kits include: Cover, Grooved Coupler & Gasket.			

Servicing and Second Checks

#1 Cam-Check Figure 2



#2 Cam-Check Figure 3

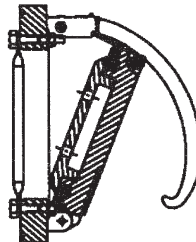
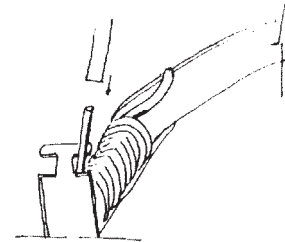


Figure 4



Watts assemblies require minimum maintenance. All assemblies must be retested once maintenance has been performed.
(Before servicing be certain shut off valves are closed)

Removing Cam-Checks

1. Shut down water system and lock out system if possible. Slowly open all ball valves to relieve air and water pressure. Loosen bolts on groove coupler and remove groove coupler and cover plate from valve body
2. **#1 Check (Fig.2)** Using a $\frac{1}{16}$ " socket wrench or nut driver, remove the four nuts from the #1 check studs (See fig. 1) Using two hands, place them at 12 o'clock and 6 o'clock, wiggle the check assembly free. Remove through access port with back of clapper first with back of clapper first with spring end down. Pull check assembly out of main body.
#2 Check (Fig.3) After loosening bolts with a $\frac{1}{16}$ " socket, remove bolts completely, Using the centerline access bar, spin the cam assembly from the 9 o'clock position to the 12 o'clock position, then (without letting go of the access bar)
 3. push the cam assembly slightly downstream so that the clapper is now parallel to the valve body. Now bring the cam assembly through the check retaining wall. Leave the cam assembly clapper parallel to the valve body. Pull the cam assembly through the access port.
 4. Using a $\frac{3}{8}$ " nut driver or a piece of small diameter pipe, place on the cam arm torsion spring and move away from and around the torsion spring retaining bracket so as to relieve the torsion spring tension. (See Figure 4) This will allow the cam arm to move freely, enabling you to inspect the clapper face and cam seat. Thoroughly clean the seat area and clapper sealing surfaces, cam arms, and O-rings.
 4. Before reinstallation of Checks thoroughly clean O-ring groove and lubricate O-ring with F.D.A. approved lubricant.

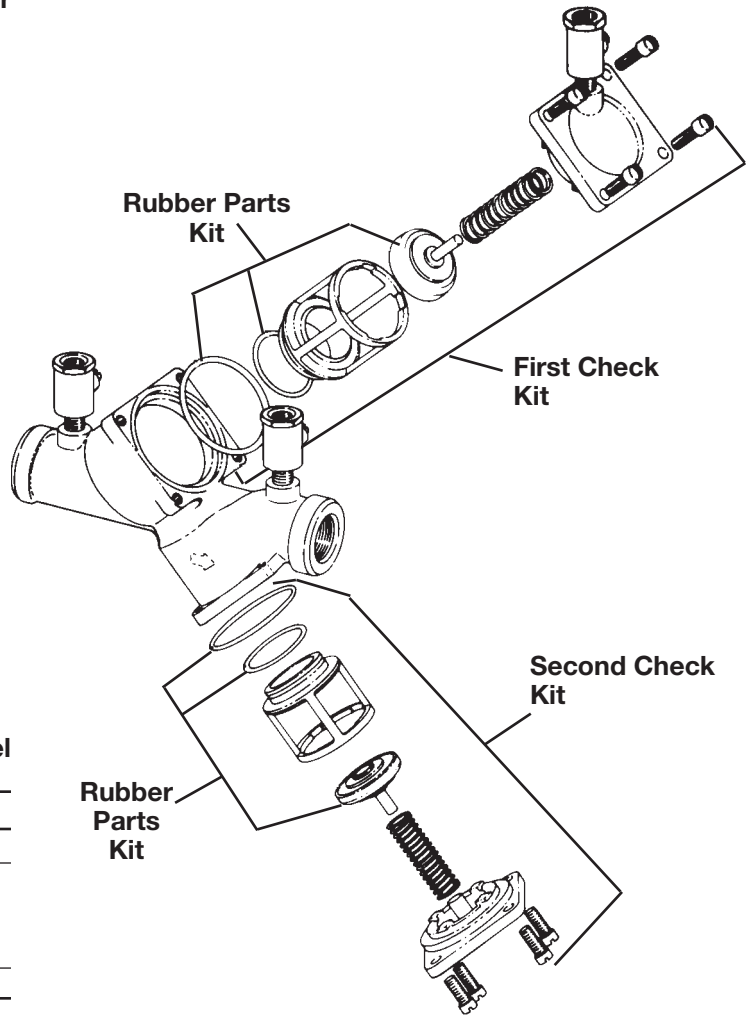
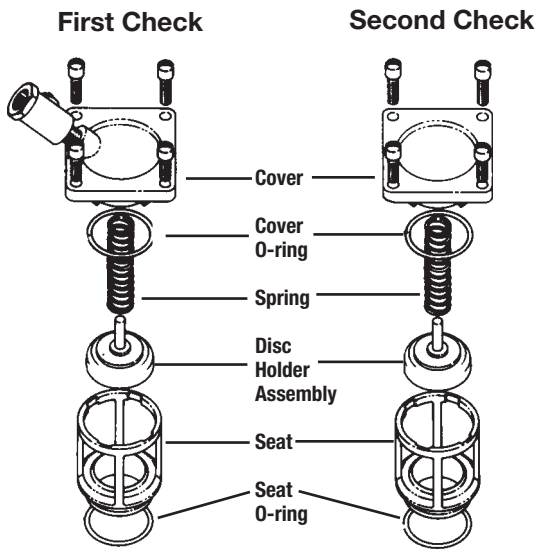


Service, Replacement Parts and Maintenance 3/4" – 2" (20-50mm)

1. After removing the cover screw, the check comes out with the cover.
2. Holding the check Valve module in both hands, rotate the assembly 1/4 turn. This will disengage the disc and spring assembly into individual components. The disc assembly may be cleaned or replaced. O-rings should be cleaned or replaced as necessary and lightly greased with the FDA approved silicon grease. Reassemble the check valve module in the reverse order.

NOTE: The springs of the first and second check valves are interchangeable.

(Before servicing, be certain water is turned off or shutoff valves are closed)



709 3/4" – 2"

*Stainless Steel

EDP No.	Kit No.	Size	
		in.	mm
First or Second Check Kits			
0887150	RK 709 CK4	3/4 – 1	20-25
0887151	RK 709 CK4	1 1/2 – 2	32-50
0887154	RK 709 CK4SS*	3/4 – 1	20-25
0887155	RK 709 CK4SS*	1 1/2 – 2	32-50

Kit includes: Disc assembly, Spring, Seat, Seat o-ring and Cover O-ring.

Complete Rubber Parts

0887152	RK 709 RT	3/4 – 1	20-25
0887153	RK 709 RT	1 1/2 – 2	32-50

Kit includes: Diaphragm, Disc assembly, Seat o-ring and Cover o-ring.

Seat Kits

0887160	RK 709 S4	3/4 – 1	20-25
0887161	RK 709 S4	1 1/2 – 2	32-50
0887162	RK 709 S4SS*	3/4 – 1	20-25
0887163	RK 709 S4SS*	1 1/2 – 2	32-50

Cover Kits

0887156	RK 709 C1	3/4 – 1	20-25
0887157	RK 709 C1	1 1/2 – 2	32-50
0887158	RK 709 C2	3/4 – 1	20-25
0887159	RK 709 C2	1 1/2 – 2	32-50

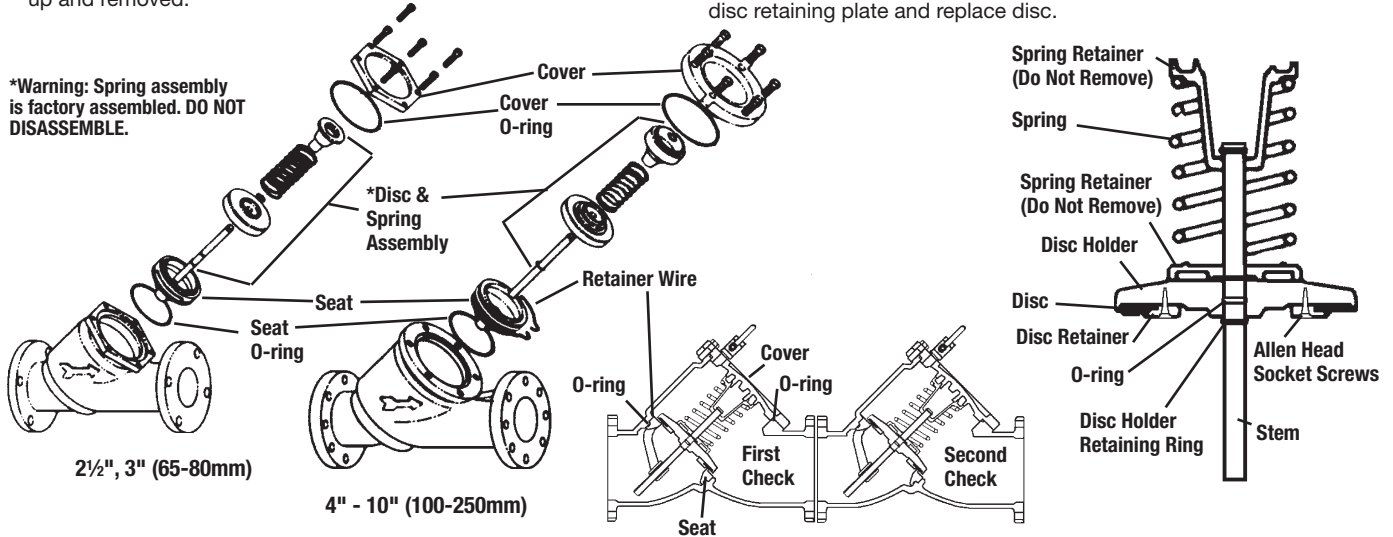
Kit includes: Cover and Cover o-ring.



Service, Replacement Parts and Maintenance 2 1/2" – 10" (65-250mm)

1. Remove hatch cover bolts. **NOTE:** The 709 is designed so that, when the bolts are backed off 1/2", all the spring load is released from the cover and retained by the check module. **CAUTION: Be sure to verify this before removing all the bolts.**
2. Lift check valve module straight out, taking care not to hit and damage seat ring.
3. The seat ring may be removed and replaced by pulling out the two wire retainers. The wire retainers are 10" long. One is drawn out clockwise and the other is drawn out counterclockwise.
4. With the retainer wires removed, the seat ring can be lifted straight up and removed.

CAUTION: The check valve disc and spring assembly are in compression. The spring load is captured by the two spring retainers and the stem. The spring retainers are **not** to be removed for servicing. If there is a need to replace the spring, spring retainer or stem, replace the disc and spring assembly. If the disc holder has been damaged by freezing or severe water hammer, it can be replaced in the field. Remove the disc holder retaining ring and slide the disc holder off the stem. Remove the o-ring from the stem and replace with a new one. Apply grease to the o-ring and slide the new disc holder into place. Re-install the retaining ring. **NOTE:** The disc holder should not be removed when servicing only the disc, remove allen head screws holding the disc retaining plate and replace disc.



709 2 1/2" – 10" (65-250mm)

EDP No.	Kit No.	Size	
		in	mm
First or Second Check Kits			
0887900	RK 709 CK4	2 1/2 – 3	65-80
0887901	RK 709 CK4	4	100
0887902	RK 709 CK4	6	150
0887903	RK 709 CK4	8	200
0887904	RK 709 CK4	10	300

Kit includes: Disc & spring assembly and Cover O-ring.

Rubber Parts (for one check)

0887905	RK 709 RC4	2 1/2 – 3	65-80
0887906	RK 709 RC4	4	100
0887907	RK 709 RC4	6	150
0887908	RK 709 RC4	8	200
0887909	RK 709 RC4	10	250

Kit includes: Disc and Cover O-ring.

Complete Rubber Parts

0887915	RK 709 RT	2 1/2 – 3	65-80
0887916	RK 709 RT	4	100
0887917	RK 709 RT	6	150
0887918	RK 709 RT	8	200
0887919	RK 709 RT	10	250

Kit includes: Two discs and Two Cover O-rings.

Seat Kits

0887910	RK 709S	2 1/2 – 3	65-80
0887911	RK 709S	4	100
0887912	RK 709S	6	150
0887913	RK 709S	8	200
0887914	RK 709S	10	250

Kit includes: Seat, Seat o-ring, Retainer Wire and Cover O-ring.

Cover Kits

0887920	RK 709 C	2 1/2 – 3	65-80
0887921	RK 709 C	4	100
0887922	RK 709 C	6	150
0887923	RK 709 C	8	200
0887924	RK 709 C	10	250

Kit includes: Cover and Cover O-ring.

709DCDA 3" – 10" (80-250mm)

EDP No.	Kit No.	Size	
		in	mm
First Check Kits			
0887930	RK 709DCDA CK1	3	80
0887931	RK 709DCDA CK1	4	100
0887932	RK 709DCDA CK1	6	150
0887933	RK 709DCDA CK1	8	200
0887934	RK 709DCDA CK1	10	250

Second Check Kits

0887935	RK 709DCDA CK2	3	80
0887936	RK 709DCDA CK2	4	100
0887937	RK 709DCDA CK2	6	150
0887938	RK 709DCDA CK2	8	200
0887939	RK 709DCDA CK2	10	250

Kit includes: Disc assembly, Spring assembly and Cover O-ring.

Rubber Parts (for one check)

0887940	RK 709DCDA RC4	3	80
0887941	RK 709DCDA RC4	4	100
0887942	RK 709DCDA RC4	6	150
0887943	RK 709DCDA RC4	8	200
0887944	RK 709DCDA RC4	10	250

Kit includes: Disc and Cover O-ring.

Seat Kits

0887945	RK 709DCDA S	3	80
0887946	RK 709DCDA S	4	100
0887947	RK 709DCDA S	6	150
0887948	RK 709DCDA S	8	200
0887949	RK 709DCDA S	10	250

Kit includes: Seat, Retainer Wire and Cover O-ring.

Cover Kits

0887950	RK 709DCDA C	3	80
0887951	RK 709DCDA C	4	100
0887952	RK 709DCDA C	6	150
0887953	RK 709DCDA C	8	200
0887954	RK 709DCDA C	10	250

Kit includes: Cover and Cover O-ring.

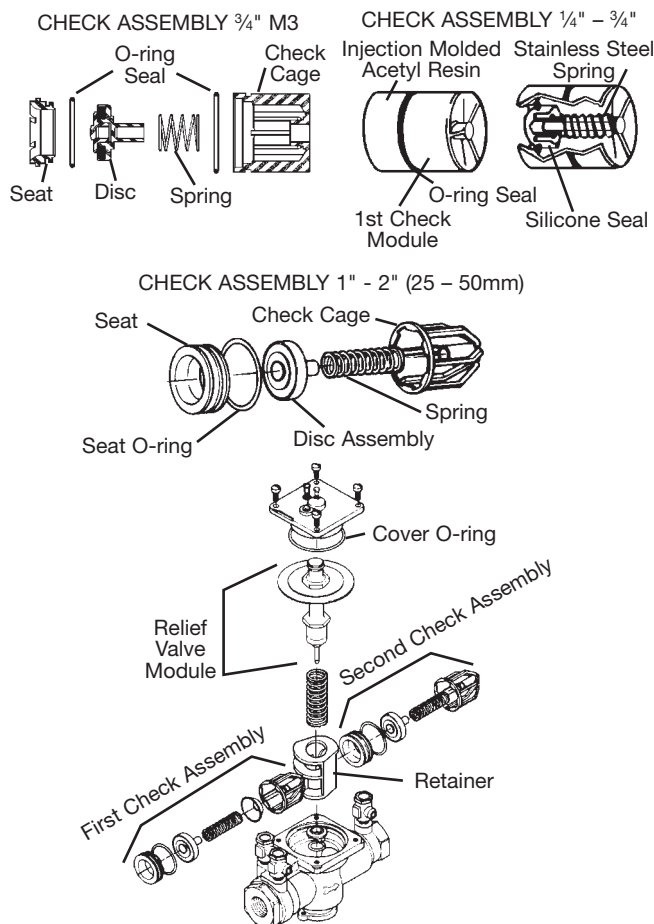


Servicing First & Second Check Valves

1/4" - 2" (8 - 50mm)

1. Remove the retainer from the body bore. The check valve modules can now be removed from the valve by hand or with a screwdriver. **Note:** The seats and springs of the first and second check modules are not interchangeable. The heavier spring and smaller diameter seat belong with the first check module.
2. The check seats are attached to the cage with a bayonet type locking arrangement. Holding the cage in one hand, push the seat inward and rotate clockwise against the cage. The seat, spring cage, spring and disc assembly are now individual components.

Note: 3/4" M2 modules snap apart.
3. The disc assembly may now be cleaned and re-assembled or, depending on its condition, may be discarded and replaced with a new assembly from the repair kit. O-rings should be cleaned or replaced as necessary and lightly greased with the FDA approved grease. Refer to parts price list, PL-RP-BPD for more information.
4. Re-assemble the check valve modules. Check modules are installed in the valve body with the seat facing the valve inlet. The modules must be securely in place before the retainer can be replaced. On the 3/4" size retainer may have to be tilted slightly into place. Replace relief valve assembly.



Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Replacement Parts – 1/4" - 2" (8 - 50mm)

When ordering, specify Ordering Code, Kit number and Valve Size.

1/4" - 1" (8 - 25mm)

ORDERING CODE	KIT NO.	SIZE	inch	mm
First Check Kits:				
0887291	RK 009 CK1	1/4, 3/8, 1/2	1/4	8, 10, 15
0887505	RK SS009 CK1		1/2	15
0887000	RK 009M2 CK1		3/4	20
0887515	RK SS009M3 CK1		1/4 - 3/4	8-20
0888520	RK 009M3 CK1		3/4	20
0887005	RK 009 CK1		3/4 - 1	20-25
0887009	RK 009 CK1SS		3/4 - 1	20-25
0887525	RK SS009 CK1		1	25
0887789	RK 009M2 CK1		1	25

Kit consists of: Check assembly and Cover O-ring.

Second Check Kits:

0887292	RK 009 CK2	1/4, 3/8, 1/2	1/4	8, 10, 15
0887506	RK SS009 CK2		1/2	15
0887001	RK 009M2 CK2		3/4	20
0887516	RK SS009M3 CK2		1/4 - 3/4	8, 10, 15
0888521	RK 009M3 CK2		3/4	15
0887007	RK 009 CK2		3/4 - 1	15-25
0887011	RK 009 CK2SS		3/4 - 1	15-25
0887526	RK SS009 CK2		1	25
0887790	RK 009M2 CK2		1	25

Kit consists of: Check assembly and Cover O-ring.

Check Rubber Parts:

0887293	RK 009 RC3	1/4, 3/8, 1/2	1/4	8, 10, 15
0887003	RK 009M2 RC3		3/4	20
0888522	RK 009M3 RC3		3/4	20
0887507	RK SS009 RC1		1/2	15
0887517	RK SS009M2 RC1		3/4	20
0888595	RK SS009M3 RC1		1/4 - 3/4	8-20
0887017	RK 009 RC1		3/4 - 1	20-25
0887527	RK SS009 RC1		1	25
0887791	RK 009M2 RC1		1	25
0887508	RK SS009 RC2		1/2	15
0887518	RK SS009M2 RC2		3/4	20
0888596	RK SS009M3 RC2		1/4 - 3/4	8-20
0887180	RK 009 RC2		3/4 - 1	20-25
0887528	RK SS009 RC2		1	25
0887792	RK 009M2 RC2		1	25

Kit consists of: Disc, Cover O-ring and Seat O-ring.

Retainers:

1047053	99AB47		1/4, 3/8, 1/2	8, 10, 15
1047394	99BA47	M2-M3	3/4	20
1047001	99FA47		1/4 - 2	32-50
1047001	99FA47	M1, 2" M2	1/4 - 2	32-50
1047401	99EA47	M2	1/4 - 1 1/2	32-40

1 1/4" - 2" (32 - 50mm)

ORDERING CODE	KIT NO.	SIZE	inch	mm
First Check Kit:				
0887300	RK 009M2 CK1	1 1/4 - 1 1/2	1 1/4	32-40
0887270	RK 009M1 CK1		1 1/4 - 2	32-50
0887006	RK 009 CK1		1 1/4 - 2	32-50
0887010	RK 009 CK1SS		1 1/4 - 2	32-50
0887272	RK 009M1 CK1SS		1 1/4 - 2	32-50
0887540	RK 009M2 CK1		2	50

Kit consists of: First check assembly, Cover O-ring and Sensing passage O-ring.

Second Check Kit:

0887301	RK 009M2 CK2	1 1/4 - 1 1/2	1 1/4	32-40
0887271	RK 009M1 CK2		1 1/4 - 2	32-50
0887008	RK 009 CK2		1 1/4 - 2	32-50
0887012	RK 009 CK2SS		1 1/4 - 2	32-50
0887273	RK 009 M1 CK2SS		1 1/4 - 2	32-50
0887541	RK 009M2 CK2		2	50

Kit consists of: Second check assembly, Cover O-ring and Sensing passage O-ring.

First Check Rubber Parts Kit:

0887304	RK 009M2 RC1	1 1/4 - 1 1/2	1 1/4	32-40
0887274	RK 009M1 RC1		1 1/4 - 2	32-50
0887018	RK 009 RC1		1 1/4 - 2	32-50
0887542	RK 009M2 RC1		2	50

Kit consists of: First check assembly O-ring, Disc holder assembly, Cover O-ring and Sensing passage O-ring.

Second Check Rubber Parts Kit:

0887305	RK 009M2 RC2	1 1/4 - 1 1/2	1 1/4	32-40
0887275	RK 009M1 RC2		1 1/4 - 2	32-50
0887183	RK 009 RC2		1 1/4 - 2	32-50
0887543	RK 009M2 RC2		2	50

Kit consists of: Second check assembly O-ring, Disc holder assembly, Cover O-ring and Sensing passage O-ring.

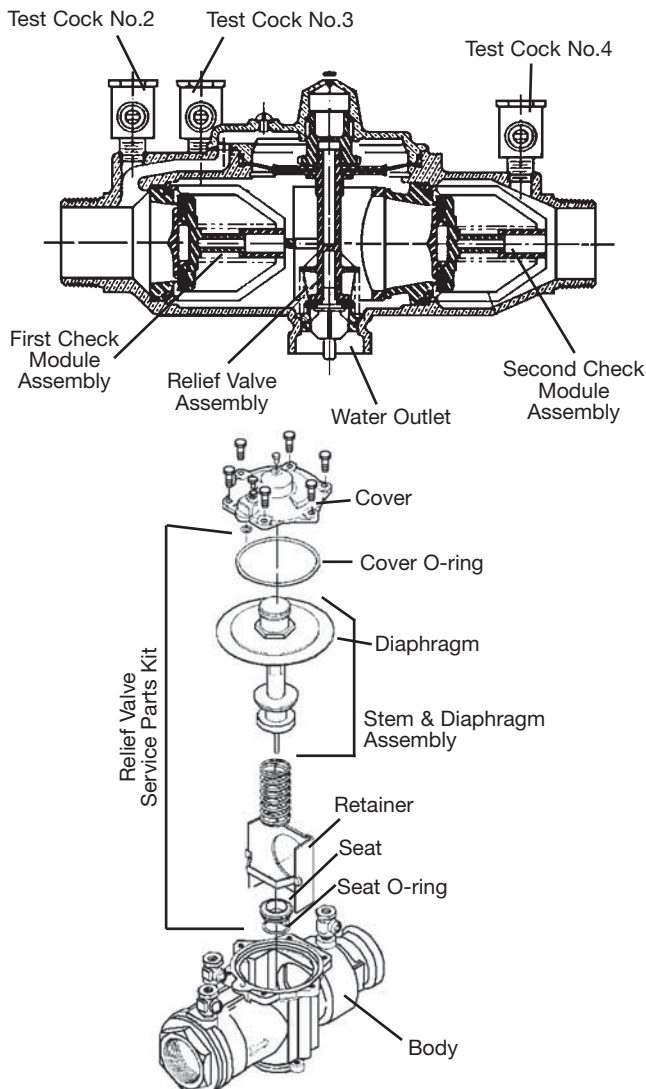


Servicing the Relief Valve

1/4" - 2" (8 - 50mm)

1. Remove the relief valve cover bolts while holding the cover down.
2. Lift the cover straight off. The stem and diaphragm assembly will normally remain with the cover as it is removed. The relief valve spring will be free inside the body at this point.
3. The relief valve seat is located at the bottom of the body bore and can be removed, if necessary, for cleaning. The disc can be cleaned without disassembly of the relief valve module. If it is determined that the relief valve diaphragm and/or disc should be replaced, the relief valve module can be readily disassembled without the use of special tools.
Note: the disc rubber is molded into the disc holder and is supplied as a disc holder assembly.
4. To re-assemble the relief valve, press the seat firmly into place in the body, center the spring on the seat, and insert the cover and relief valve module as a unit straight into the bore. Press down on the cover to assure proper alignment. Insert and tighten bolts.

Caution: If cover will not press flat against body, stem assembly is crooked and damage can result. Re-align stem and cover before bolts are inserted.



Replacement Parts — 1/4" - 2" (8 - 50mm)

When ordering, specify Ordering Code, Kit number and Valve Size.

1/4" - 1" (8 - 25mm)

ORDERING CODE	KIT NO.	SIZE	
Relief Valve Kits:			
		inch	mm
0887294	RK 009 VT	1/4, 3/8, 1/2	8, 10, 15
0887509	RK SS009 VT	1/2	15
0887002	RK 009M2 VT	3/4	20
0887520	RK SS009M2/M3 VT	1/4 - 3/4	8-20
0888524	RK 009M3 VT	3/4	20
0887015	RK 009 VT	3/4 - 1	20-25
0887503	RK SS009 VT	1	25
0887785	RK 009M2 VT	1	25

Kit consists of: Seat, Seat O-ring, Stem & diaphragm assembly, Stem O-ring, Cover O-ring and RV spring.

Relief Valve Rubber Parts Kits:

0887295	RK 009 RV	1/4, 3/8, 1/2	8, 10, 15
0887510	RK SS009 RV	1/2	15
0886998	RK 009M2 RV	3/4	20
0887519	RK SS009M2/M3 RV	1/4 - 3/4	8-20
0888523	RK 009M3 RV	3/4	20
0887181	RK 009 RV	3/4 - 1	20-25
0887529	RK SS009 RV	1	25
0887786	RK 009M2 RV	1	25

Kit consists of: Diaphragm, Disc assembly, Stem O-rings, Seat O-ring and Cover O-ring.

Total Rubber Parts Kits:

0887297	RK 009 RT	1/4, 3/8, 1/2	8, 10, 15
0887511	RK SS009 RT	1/2	15
0886999	RK 009M2 RT	3/4	20
0887521	RK SS009M2 RT	3/4	20
0888526	RK 009M3 RT	3/4	20
0888597	RK SS009M3 RT	1/4 - 3/4	8-20
0887182	RK 009 RT	3/4 - 1	20-25
0887530	RK SS009 RT	1	25
0887787	RK 009M2 RT	1	2

Kit consists of: Diaphragm, Two discs, Two disc assemblies, Stem O-rings, Cover O-ring, Two seat O-rings and RV seat O-ring.

Cover Kits:

0887296	RK 009 C	1/4, 3/8, 1/2	8, 10, 15
0887500	RK SS009 C	1/2	15
0887004	RK 009M2 C	3/4	20
0887501	RK SS009M2/M3 C	1/4 - 3/4	8-20
0888525	RK 009M3 C	3/4	20
0887013	RK 009 C	3/4 - 1	20-25
0887502	RK SS009 C	1	25
0887788	RK 009M2 C	1	2

Kit consists of: Cover and Cover O-ring.

1/4" - 2" (32 - 50mm)

ORDERING CODE	KIT NO.	SIZE	
Relief Valve Total Kit:			
		inch	mm
0887307	RK 009M2 VT	1 1/4 - 1 1/2	32-40
0887277	RK 009M1 VT	1 1/4 - 2	32-50
0887016	RK 009 VT	1 1/4 - 2	32-50
0887545	RK 009M2 VT	2	50

Kit consists of: RV assembly, Seat, Seat O-ring, Cover O-ring, Sensing passage O-ring and Upper stem O-ring.

Relief Valve Rubber Parts Kit:

0887306	RK 009M2 RV	1 1/4 - 1 1/2	32-40
0887276	RK 009M1 RV	1 1/4 - 2	32-50
0887184	RK 009 RV	1 1/4 - 2	32-50
0887544	RK 009M2 RV	2	50

Kit consists of: Diaphragm, Seat O-ring, Cover O-ring and Sensing passage O-ring.

Complete Rubber Parts Kit:

0887309	RK 009M2 RT	1 1/4 - 1 1/2	32-40
0887280	RK 009M1 RT	1 1/4 - 2	32-50
0887185	RK 009 RT	1 1/4 - 2	32-50
0887547	RK 009M2 RT	2	50

Kit consists of: Two check assembly O-rings, Two disc assemblies, One cover O-ring, One RV diaphragm, One RV seat O-ring, One sensing passage O-ring, One diaphragm plate O-ring, One RV lower stem O-ring, One RV upper stem O-ring, One RV disc assembly and One bleed screw O-ring.

Cover Kit:

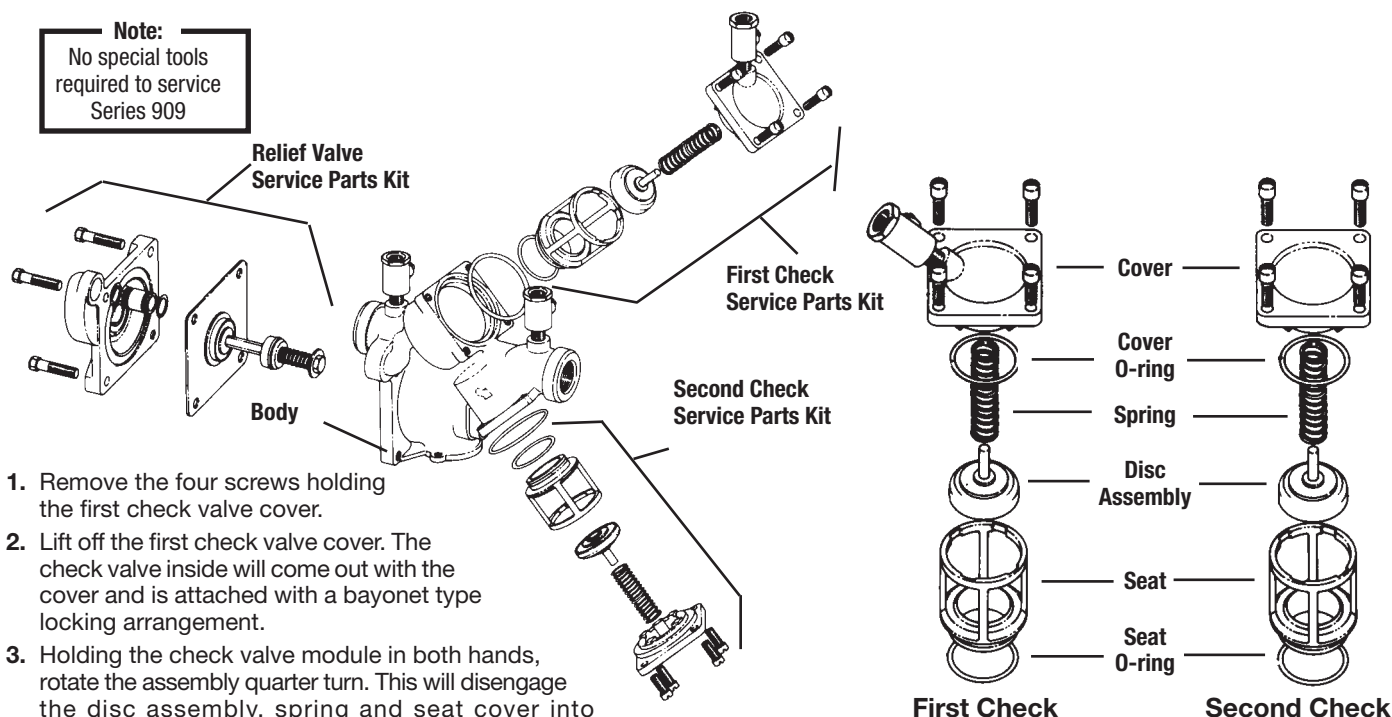
0887308	RK 009M2 C	1 1/4 - 1 1/2	32-40
0887278	RK 009M1 C	1 1/4 - 2	32-50
0887014	RK 009 C	1 1/4 - 2	32-50
0887546	RK 009M2 C	2	5

Kit consists of: Cover, Cover O-ring, Sensing passage O-ring, Bleed screw O-ring, Vent hood and Bleed screw.



Servicing First and Second Check Valves 3/4" to 2" (20 to 50mm)

Note:
No special tools
required to service
Series 909



1. Remove the four screws holding the first check valve cover.
2. Lift off the first check valve cover. The check valve inside will come out with the cover and is attached with a bayonet type locking arrangement.
3. Holding the check valve module in both hands, rotate the assembly quarter turn. This will disengage the disc assembly, spring and seat cover into individual components.
4. The disc assembly may be cleaned and reassembled, or depending upon its condition, it may be discarded and replaced with a new assembly from the service kit. O-rings should be cleaned or replaced as necessary and lightly greased with the FDA approved silicon grease which is also furnished with the service kit.
5. Reassemble the check valve module in the reverse order. Service is identical for both the first and second check valves.

Note: The springs and covers of the first and second check valves are **not** interchangeable. The heavier spring loaded module should be in the first check and the lighter in the second check module.

For further details contact your local technical sales representative, see back page.

3/4" to 2" Replacement Parts

When ordering, specify **Ordering Code Number, Kit Number†** and **Valve Size**

First Check Kits

Order No.	Kit No.	Sizes in.	mm
0887120	RK 909 CK1	3/4 - 1	20-25
0887133	RK 909 CK1	1 1/4 - 2	32-50
0887122	RK 909 CK1SS*	3/4 - 1	20-25
0887135	RK 909 CK1SS*	1 1/4 - 2	32-50

Kit includes: Disc assembly, Spring, Seat, Seat o-ring, Cover o-ring and lubricant. *Stainless Steel Seat.

Second Check Kits

0887121	RK 909 CK2	3/4 - 1	20-25
0887134	RK 909 CK2	1 1/4 - 2	32-50
0887123	RK 909 CK2SS*	3/4 - 1	20-25
0887136	RK 909 CK2SS*	1 1/4 - 2	32-50

Kit includes: Disc assembly, Spring, Seat, Seat o-ring, Cover o-ring and lubricant. *Stainless Steel Seat.

Rubber Parts for Both Checks

0887129	RK 909 RC3	3/4 - 1	20-25
0887142	RK 909 RC3	1 1/4 - 2	32-50
0887310	RK 909 RC3 HW	3/4 - 1	20-25
0887311	RK 909 RC3 HW	1 1/4 - 2	32-50

Kit includes: Check discs, Seat o-rings, Cover o-rings and lubricant. HW model has bronze disc. †**Note:** 1 1/4" - 2" (32-50mm) 909/909M1 share a common kit.

Complete Rubber Parts

Order No.	Kit No.	Size in.	mm
0887130	RK 909 RT	3/4 - 1	20-25
0887144	RK 909 RT	1 1/4 - 2	32-50

Kit includes: Check discs, Seat o-rings, RV diaphragm, RV o-rings, Piston o-rings, Cover o-rings and lubricant.

Seat Kits for One Check

0887124	RK 909 S	3/4 - 1	20-25
0887139	RK 909 S	1 1/4 - 2	32-50
0887125	RK 909 S-SS*	3/4 - 1	20-25
0887140	RK 909 S-SS*	1 1/4 - 2	32-50

Kit includes: Seat, Seat o-ring and lubricant. *Stainless Steel Seat.

Cover Kits

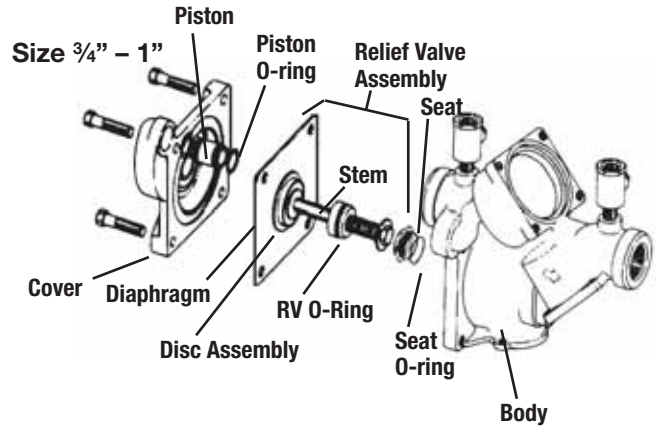
0887127	RK 909 C1	3/4 - 1	20-25
0887128	RK 909 C2	3/4 - 1	20-25
0887132	RK 909 VC	3/4 - 1	20-25
0887137	RK 909 C4	1 1/4 - 2	32-50
0887143	RK 909 VC	1 1/4 - 2	32-50

Kit includes: Cover, Cover o-ring and lubricant.



Servicing the Relief Valve 3/4" to 2"

1. Remove the four bolts that hold the relief valve cover in place.
2. Remove the cover. The stainless steel adapter, with o-ring attached will be free to be removed simultaneous with the removal of the cover. Pull out the relief valve assembly.
Note: the spring tension in the relief valve assembly is contained in the design of the relief valve; therefore, the relief can be removed in a one-piece spool-type assembly.
3. The relief valve seat and disc may be cleaned without disassembly of the relief valve assembly. If it is determined that the relief valve diaphragm and/or disc should be replaced, the relief valve module can be readily disassembled without the use of special tools.



Repair Kits†

Relief Valve Kits

Order Code No.	Kit No.	Size in.	mm
0887126	RK 909 VT	3/4 - 1	20-25
0887138	RK 909 VT	1 1/4 - 2	32-50

Kit includes: Relief valve assembly, Seat, Seat o-ring, Cover o-ring and lubricant.

Rubber Parts for Relief Valve

0887131	RK 909 RV	3/4 - 1	20-25
0887141	RK 909 RV	1 1/4 - 2	32-50

Kit includes: Diaphragm, Disc assembly, Seat o-ring, RV o-ring, Piston o-rings, Cover o-ring and lubricant.

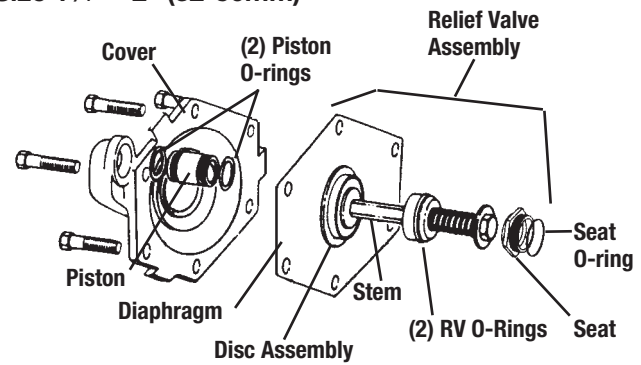
Seat Kits for Relief Valve

0887372	RK 909 SV	3/4 - 1	20-25
0887371	RK 909 SV	1 1/4 - 2	32-50

Kit includes: Seat, Seat o-ring, Piston o-ring and lubricant.

†**Note:** 1 1/4" - 2" (32-50mm) 909/909M1 share a common kit.

Size 1 1/4" - 2" (32-50mm)



For further details contact your local technical sales representative, see back page.

To Prevent Shaft Damage Assemble As Shown:

Caution: If cover will not press against body, assembly is crooked and tightening bolts will bend shaft. Do not force the cover into place as damage may result from misalignment.

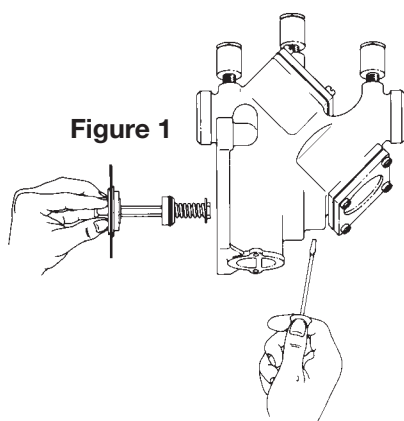


Figure 1:

To assemble the Relief Valve Assembly have a screwdriver ready.

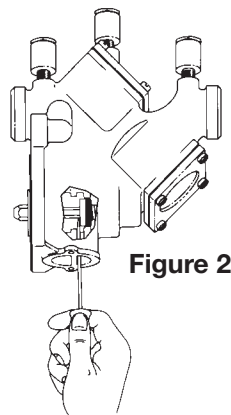


Figure 2:

Depress the Relief Valve Assembly, carefully guiding it against the two pound spring load. When properly aligned, the piston is in the cylinder bore. Insert the screwdriver as shown.

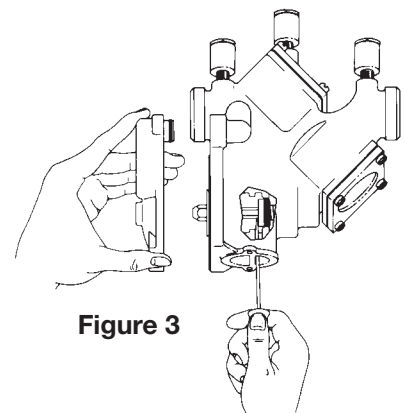


Figure 3:

The Relief Valve Assembly is held encapsulated by the screwdriver. You should now have both hands free to bolt down the cover. Insert and snug two bolts 180° apart to hold the cover. Finish inserting the remaining bolts and snug up evenly, alternating until secure. Remove the screwdriver.

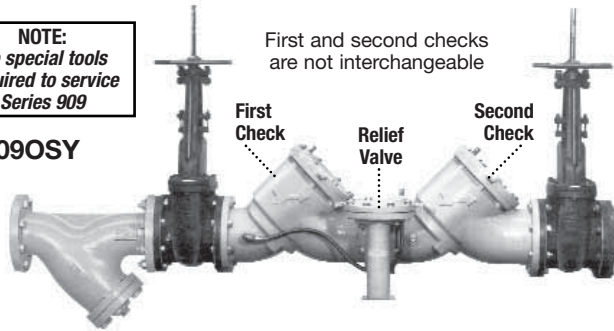


Servicing First and Second Checks

Sizes: 2½" – 10" (65-250mm)

NOTE:
No special tools
required to service
Series 909

909OSY



First and second checks
are not interchangeable

First
Check

Relief
Valve

Second
Check

909 Repair Kits 2½" – 10" (65 – 250mm)

ORDERING CODE	KIT NO.	SIZE	
First Check Kits:			
		in.	mm
0887210	RK 909 CK1	2½ – 3	65-80
0887212	RK 909 CK1	4	100
0887213	RK 909 CK1	6	150
0887214	RK 909 CK1	8	200
0887215	RK 909 CK1	10	250

Second Check Kits:			
0887211	RK 909 CK2	2½ – 3	65-80
0887216	RK 909 CK2	4	100
0887217	RK 909 CK2	6	150
0887218	RK 909 CK2	8	200
0887219	RK 909 CK2	10	250

Kits include: Disc & Spring assembly, Cover O-ring and lubricant.

First Check Rubber Parts Kits:			
0887220	RK 909 RC1	2½ – 3	65-80
0887221	RK 909 RC1	4	100
0887223	RK 909 RC1	6	150
0887224	RK 909 RC1	8	200
0887225	RK 909 RC1	10	250

Second Check Rubber Parts Kits:			
0887226	RK 909 RC2	2½ – 3	65-80
0887227	RK 909 RC2	4	100
0887228	RK 909 RC2	6	150
0887229	RK 909 RC2	8	200
0887230	RK 909 RC2	10	250

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, and lubricant.

Seat Kits for Checks:			
0887730	RK 909 S	2½ – 3	65-80
0887731	RK 909 S	4	100
0887732	RK 909 S	6	150
0887733	RK 909 S	8	200
0887734	RK 909 S	10	250

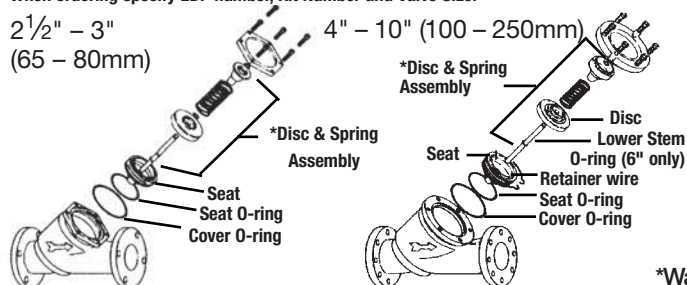
Kits include: Seat, Seat O-ring, Cover O-ring, Retainer wire and lubricant.

Total Rubber Parts Kits:			
0887750	RK 909 RT	2½ – 3	65-80
0887751	RK 909 RT	4	100
0887752	RK 909 RT	6	150
0887753	RK 909 RT	8	200
0887754	RK 909 RT	10	250
0887761	RK 909M1 RT	8	200
0887762	RK 909M1 RT	10	250

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, Sleeve O-ring, Piston O-ring, RV disc assembly, Diaphragm, Piston seal and Lubricant.

When ordering specify EDP number, Kit Number and Valve Size.

2½" – 3"
(65 – 80mm)



1. Remove the hatch cover bolts. NOTE: The 909 is designed so that when the bolts are backed off ½", all the spring load is released from the cover and retained by the check module. CAUTION: Be sure to verify this before removing all the bolts.
2. Lift the check valve module straight out taking care not to hit and damage the seating.
3. The seat ring may be removed and replaced by pulling out the two wire retainers on sizes 4" – 10" (100 – 250) while on sizes 2½" – 3" (65 – 80mm), one quarter turn twist removes seat. The wire retainers are 10" long. One is drawn out clockwise and the other is drawn out counterclockwise.
4. With the retainer wires removed, the seat ring can be lifted straight up and removed.
5. **CAUTION:** The check valve spring is in compression. The spring load is captured by the two spring retainers and the stem. The spring retainers are not to be removed for servicing. If there is a need to replace the spring, spring retainer or stem, an assembled module must be obtained from the factory. These modules are not interchangeable, be sure to replace the first check with a first check module and the second check with a second check module.
6. To replace the disc on sizes 2½" – 4" (65 – 100mm) simply remove the retaining nut or for sizes 6" – 10" (150 – 250mm) remove the allen head socket screws. Reverse this procedure to install the new disc.

909RPDA Repair Kits 2½" – 10" (65 – 250mm)

ORDERING CODE	KIT NO.	SIZE	
First Check Kits:			
		in.	mm
0887239	RK 909RPDA CK1	2½ – 3	65-80
0887240	RK 909RPDA CK1	4	100
0887241	RK 909RPDA CK1	6	150
0887242	RK 909RPDA CK1	8	200
0887243	RK 909RPDA CK1	10	250

Second Check Kits:			
0887244	RK 909RPDA CK2	2½ – 3	65-80
0887245	RK 909RPDA CK2	4	100
0887246	RK 909RPDA CK2	6	150
0887247	RK 909RPDA CK2	8	200
0887248	RK 909RPDA CK2	10	250

Kits include: Disc & Spring assembly, Cover O-ring and lubricant.

First Check Rubber Parts Kits:			
0887249	RK 909RPDA RC1	2½ – 3	65-80
0887250	RK 909RPDA RC1	4	100
0887251	RK 909RPDA RC1	6	150
0887252	RK 909RPDA RC1	8	200
0887253	RK 909RPDA RC1	10	250

Second Check Rubber Parts Kits:			
0887254	RK 909RPDA RC2	2½ – 3	65-80
0887255	RK 909RPDA RC2	4	100
0887256	RK 909RPDA RC2	6	150
0887257	RK 909RPDA RC2	8	200
0887258	RK 909RPDA RC2	10	250

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, and lubricant.

Seat Kits for Checks:			
0887735	RK 909RPDA S	2½ – 3	65-80
0887736	RK 909RPDA S	4	100
0887737	RK 909RPDA S	6	150
0887738	RK 909RPDA S	8	200
0887739	RK 909RPDA S	10	250

Kits include: Seat, Seat O-ring, Cover O-ring, Retainer wire and lubricant.

Total Rubber Parts Kits:			
0887756	RK 909RPDA RT	2½ – 3	65-80
0887757	RK 909RPDA RT	4	100
0887758	RK 909RPDA RT	6	150
0887759	RK 909RPDA RT	8	200
0887760	RK 909RPDA RT	10	250
0887764	RK 909RPDAM1 RT	8	200
0887765	RK 909RPDAM1 RT	10	250

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, Sleeve O-ring, Piston O-ring, RV disc assembly, Diaphragm, Piston seal and Lubricant.

For further details contact your technical sales representative, see back page.

***Warning: Spring assembly is factory assembled. DO NOT DISASSEMBLE**



Servicing the Relief Valve

Sizes: 2½" – 10" (65-250mm)

1. Remove the relief valve cover bolts. Note the 909 is designed so that when the bolts are backed off ½" all the relief valve spring load is retained by the bottom plug spring module.
CAUTION: Be sure to verify this before removing all the bolts.
2. Remove the cover and diaphragm. The relief valve piston assembly can be lifted straight up and out.
3. Replace the wiper seal and piston O-ring and apply grease to the O-ring.
4. To replace the relief valve disc, hold the upper guide fin and unscrew the diaphragm pressure plate. It may be necessary to lightly tap the cast webs and the pressure plate to loosen. Replace with a new disc holder assembly and O-ring. Note: the disc rubber is molded into the disc holder and is supplied as a disc holder assembly.
5. Removal of the bottom plug and spring assembly. During normal field service there is no need to remove the bottom plug spring assembly other than inspection. It can be removed by simply unscrewing with a large pipe wrench.

CAUTION: The spring as retained on the bottom plug is highly loaded. NO attempt should be made in the field to remove the spring. For replacement, a complete bottom plug assembly must be obtained from the factory.

For further details contact your technical sales representative, see back page.

909 Repair Kits 2½" – 10" (65 – 250mm)

ORDERING CODE	KIT NO.	SIZE	
Relief Valve Rubber Parts			
		in.	mm
0887231	RK 909 RV	2½ – 3	65-80
0887232	RK 909 RV	4 – 6	100-150
0887233	RK 909 RV	8 – 10	200-250
0887234	*RK 909M1 RV	4 – 10	100-250

Kits include: Sleeve o-ring, Seat o-ring, Piston o-ring, Stem o-ring, RV disc assembly, Diaphragm, Piston seal, Bottom plug o-ring and lubricant

Relief Valve Total

0887235	RK 909 VT	2½ – 3	65-80
0887236	RK 909 VT	4 – 6	100-150
0887237	RK 909 VT	8 – 10	200-250
0887238	*RK 909M1 VT	4 – 10	100-250

Kits include: Adapter o-ring, Diaphragm, Disc & piston assembly, Seat, Seat o-ring and lubricant. (4" – 10" M1 includes bottom plug & spring assembly.)

Cover Kits

0887740	RK 909 C	2½ – 3	65-80
0887741	RK 909 C	4	100
0887742	RK 909 C	6	150
0887743	RK 909 C	8	200
0887744	RK 909 C	10	250

Kits include: Cover, Cover o-ring and lubricant.

909RPDA Repair Kits 2½" – 10" (65 – 250mm)

Relief Valve Rubber Parts

0887263	RK 909RPDA RV	2½ – 3	65-80
0887264	RK 909RPDA RV	4 – 6	100-150
0887265	RK 909RPDA RV	8 – 10	200-250
0887266	*RK 909RPDAM1 RV	4 – 10	100-250

Kits include: Sleeve o-ring, Seat o-ring, Piston o-ring, Stem o-ring, RV disc assembly, Diaphragm, Piston seal, Bottom plug o-ring and lubricant

Relief Valve Total

0887259	RK 909RPDA VT	2½ – 3	65-80
0887260	RK 909RPDA VT	4 – 6	100-150
0887261	RK 909RPDA VT	8 – 10	200-250
0887262	*RK 909RPDAM1 VT	4 – 10	100-250

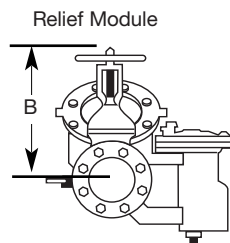
Kits include: Adapter o-ring, Diaphragm, Disc & piston assembly, Seat, Seat o-ring and lubricant. (4" – 10" M1 includes bottom plug & spring assembly.)

Cover Kits

0887745	RK 909RPDA C	2½ – 3	65-80
0887746	RK 909RPDA C	4	100
0887747	RK 909RPDA C	6	150
0887748	RK 909RPDA C	8	200
0887749	RK 909RPDA C	10	250

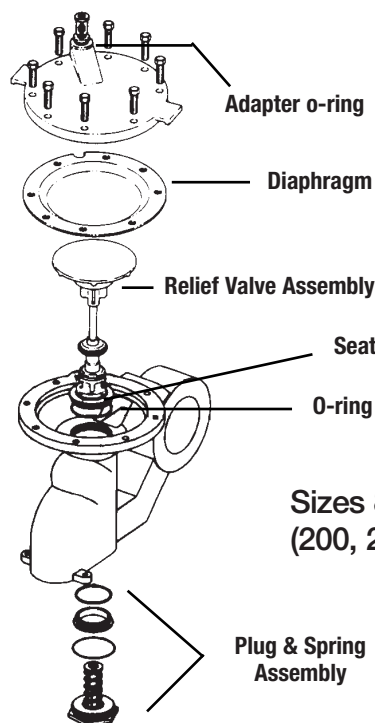
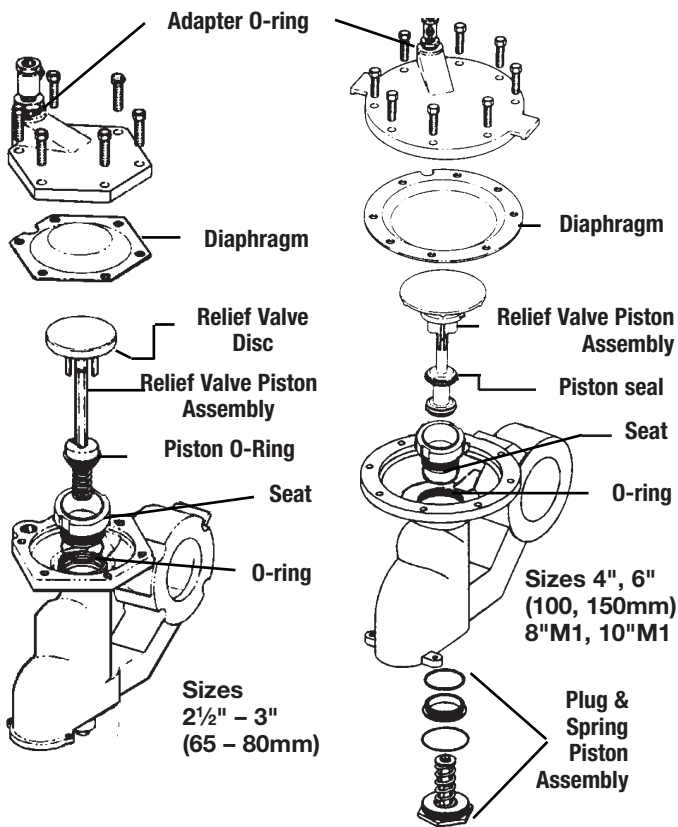
Kits include: Cover, Cover o-ring and lubricant.

*M1 = Cast iron relief valve.



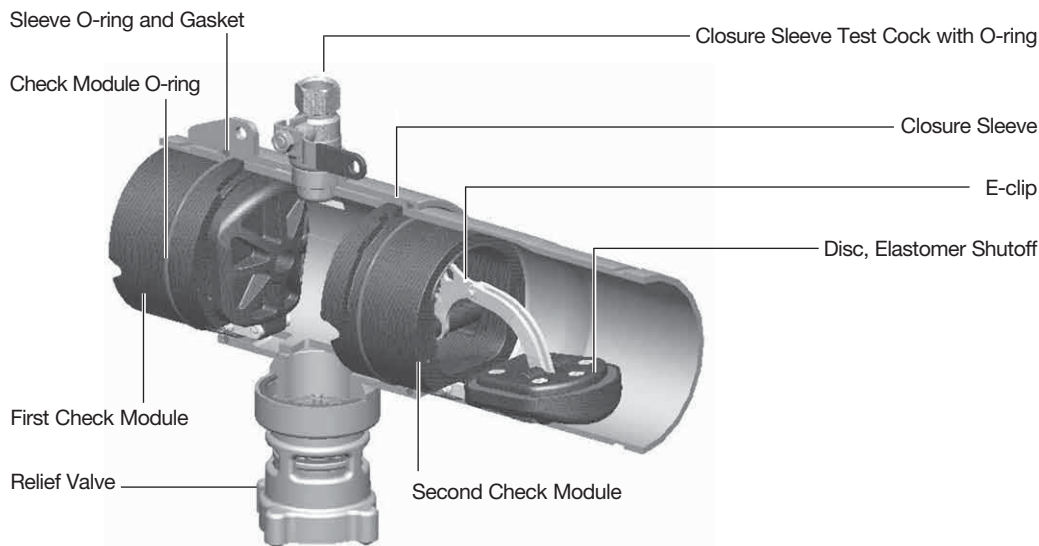
Clearance Required for Servicing

in.	mm	A	B
2½ – 3	65-80	10"	11"
4	100	15"	14"
6	150	15"	16"
8	200	23"	21"
10	250	25"	21"





Series 957, 957N, 957Z, 957RPDA, LF957RPDA, 957NRPDA, LF957NRPDA, 957ZRPDA, LF957ZRPDA Check Repair Kits



ORDERING NO.	SIZE		DISC	MODEL
	in.	mm		

1st Check Kits

7018129	2½ - 4	65-100	EPDM	RK 957/957RPDA CK1
0889370	2½ - 4	65-100	RED SILICONE	RK 957/957RPDA CK1-RS
7018132	6	150	EPDM	RK 957/957RPDA CK1
0889374	6	150	RED SILICONE	RK 957/957RPDA CK1-RS
7018135	8	200	RED SILICONE	RK 957/957RPDA CK1
0899215	10	250	RED SILICONE	RK 957/957RPDA CK1

Kit consists of: First check module, Check module O-ring and Disc elastomer.

2nd Check Kits

0899216	2½ - 4	65-100	EPDM	RK 957/957RPDA CK2
0889371	2½ - 4	65-100	RED SILICONE	RK 957/957RPDA CK2-RS
0899217	6	150	EPDM	RK 957/957RPDA CK2
0889375	6	150	RED SILICONE	RK 957/957RPDA CK2-RS
0899218	8	200	RED SILICONE	RK 957/957RPDA CK2
0899219	10	250	RED SILICONE	RK 957/957RPDA CK2

Kit consists of: Second check module, Check module O-ring and Disc elastomer.

1st or 2nd Check Rubber Parts Kits

0899220	2½ - 4	65-100	EPDM	RK 957/957RPDA RC4
0889372	2½ - 4	65-100	RED SILICONE	RK 957/957RPDA RC4-RS
0899221	6	150	EPDM	RK 957/957RPDA RC4
0889376	6	150	RED SILICONE	RK 957/957RPDA RC4-RS
0899222	8	200	RED SILICONE	RK 957/957RPDA RC4
0899223	10	250	RED SILICONE	RK 957/957RPDA RC4

Kit consists of: Check module O-ring, Disc elastomer and E-clip

ORDERING NO.	SIZE		MODEL
	in.	mm	

Check Sleeve Cover Kits

0899240	2½ - 4	65-100	RK 957/957RPDA C
0899241	6	150	RK 957/957RPDA C
0899242	8	200	RK 957/957RPDA C
0899243	10	250	RK 957/957RPDA C

Kit consists of: Closure sleeve, Sleeve O-ring and gasket.

ORDERING NO.	SIZE		DISC	MODEL
	in.	mm		

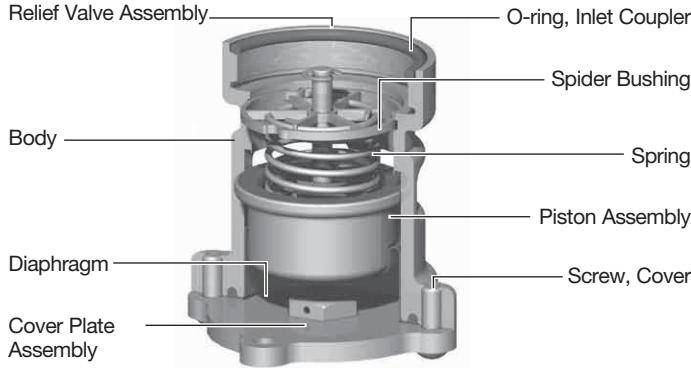
Total Rubber Parts Kits

0899244	2½ - 4	65-100	EPDM	RK 957/957RPDA RT
0889373	2½ - 4	65-100	RED SILICONE	RK 957/957RPDA RT-RS
0899245	6	150	EPDM	RK 957/957RPDA RT
0889377	6	150	RED SILICONE	RK 957/957RPDA RT-RS
0899246	8	200	RED SILICONE	RK 957/957RPDA RT
0899247	10	250	RED SILICONE	RK 957/957RPDA RT

Kit consists of: 1st and 2nd Check module O-ring, (2) Disc elastomer, (2) E-clips, Relief valve diaphragm, Relief valve inlet coupler O-ring and Relief valve piston assembly.



Series 957, 957N, 957Z, 957RPDA, LF957RPDA, 957NRPDA, LF957NRPDA, 957ZRPDA, LF957ZRPDA Relief Valve Kits



ORDERING NO.	USE FOR	MODEL
Relief Valve Hose		
0298120	2½" – 4" (65-100mm) 957, 957RPDA	½ x ½ CFC-S-CFx20
0298121	2½" & 3" (65,80mm) 957, 957RPDA N & Z	½ x ½ CFC-S-CFx24
0298122	6" (150mm) 957, 4" 957N 2½", 3", 4" (65,80,100mm) 957Z 6", 8" (150,200mm) 957RPDA 4", 6", 8" (100,150,200mm) 957RPDA N & Z 2½", 3", 4" (65,80,100mm) 957RPDA BFG 2½", 3", 4", 6" (65,80,100,150mm) 957RPDA BFG N & Z	½ x ½ CFC-S-CFx30
0298123	8" & 10" (200 & 250mm) 957 6", 8", 10" (150, 200, 250mm) 957 N & Z 10" (250mm) 957RPDA N & Z 6" & 8" (150, 200mm) 957RPDABFG N & Z	½ x ½ CFC-S-CFx36

ORDERING NO.	SIZE in. mm	MODEL
Relief Valve Total Kit		
0899232	2½ - 10 65-250	RK 957/957RPDA VT

Kit consists of: Complete relief valve assembly

Relief Valve Rubber Parts Kit

ORDERING NO.	SIZE in. mm	MODEL
0899236	2½ - 10 65-250	RK 957/957RPDA RV

Kit consists of: Diaphragm, Inlet coupler O-ring and Piston assembly

ORDERING NO.	SIZE in. mm	MODEL
Air Gap		
0111764	2½ – 10 65-250	957AG
0111815	2½ – 10 65-250	957AG Splash Guard

Series 957, 957RPDA, LF957RPDA Troubleshooting Guide

	#1 check is fouled	Remove and Clean #1 check
Relief valve discharges water while system is not flowing	Relief valve does not properly close	Service relief valve
	Municipal water pressure is fluctuating	Install check valve upstream of backflow assembly
Relief valve does not shut off properly	Fouled relief valve seat	Service relief valve
	Incorrectly installed diaphragm	Remove diaphragm and correctly install
	Damaged rubber surface on piston	Replace with new piston
	Damaged or plugged pressure hose	Repair or replace hose.



MODEL 350



a **ZURN** company

Double Check

Backflow Preventers 3/4" & 1"

ITEM NO.	DESCRIPTION	3/4"	1"
1	BODY	352-1-010F	353-1-010F
2	HOUSING	352-1A	353-1A
3	#1 SEAT	352-18A	353-18A
4	#2 SEAT	352-18B	353-18B
5	O-RING #1	WK-125N	131N
6	O-RING #2	126N	132N
7	POPPET	352-30	353-30
8	SPRING	352-33	353-33
9	SLEEVE	352-2	353-2
10	O-RING, HOUSING INLET	214N	220N-80
11	O-RING, HOUSING OUTLET	223N	226N-80
12	SCREWS	352-11	352-11
13	TEST COCKS	18-860	18-860
14	BALL VALVE, INLET	34-850T	1-850T
15	BALL VALVE, OUTLET	34-850	1-850
16	CHECK ASSEMBLY #1	352-300A	353-300A
17	CHECK ASSEMBLY #2	352-300B	353-300B
18	HOUSING ASSEMBLY	RK34-350V	RK1-350V
19	TEST COCK CAP PLUG	2-7P	2-7P

REPAIR KITS

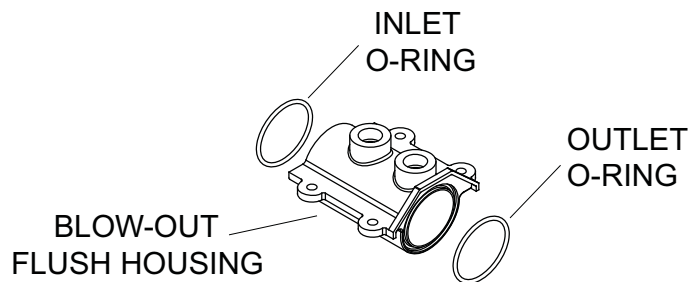
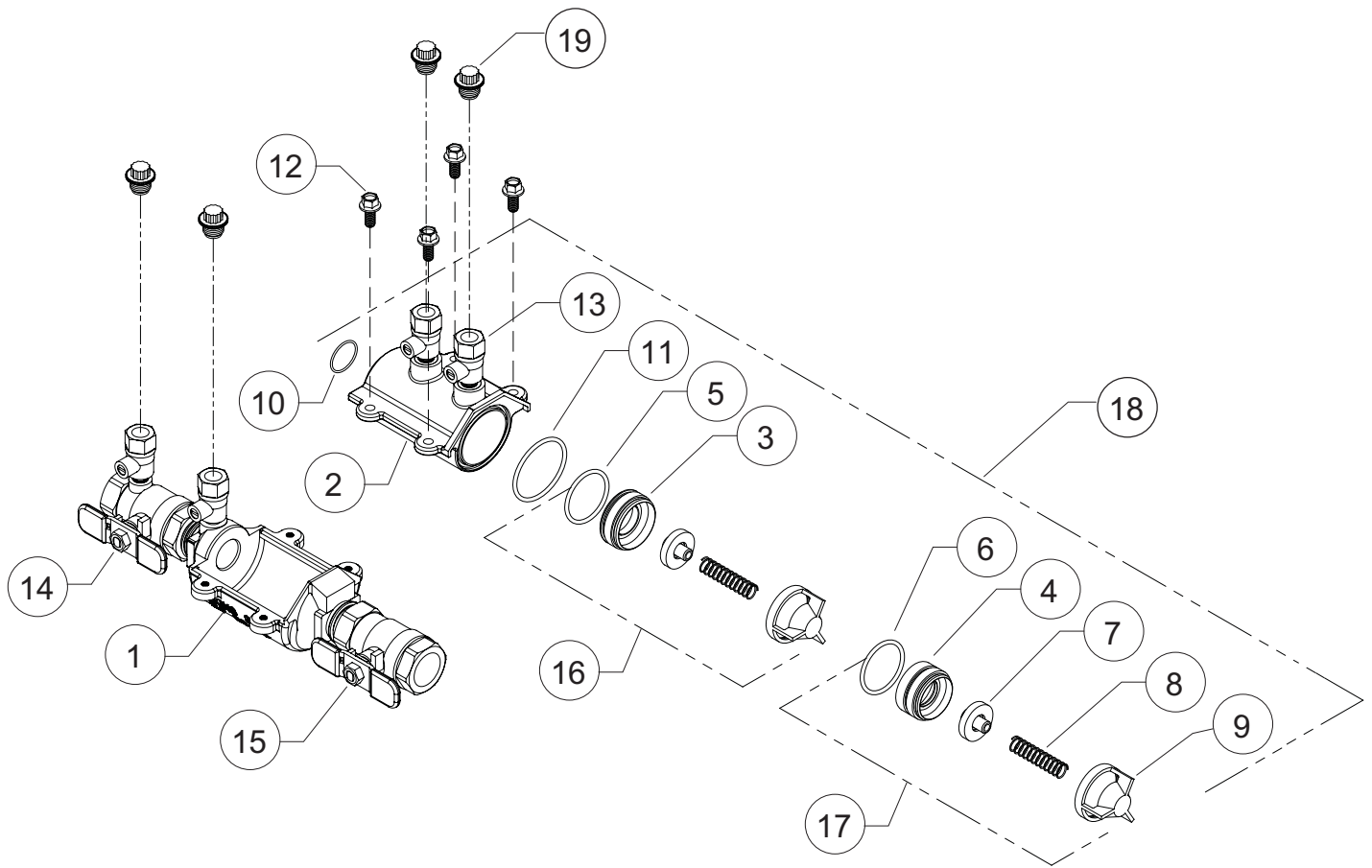
RK34-350R			RK1-350R		
REPAIR KIT, RUBBER MODEL 350 3/4"			REPAIR KIT, RUBBER MODEL 350, 1"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
WK-125N	1	O-RING #1 CHECK ASSY	131N	1	O-RING #1 CHECK ASSY
126N	1	O-RING #2 CHECK ASSY	132N	1	O-RING #2 CHECK ASSY
214N	1	O-RING, HOUSING INLET	220N-80	1	O-RING, HOUSING INLET
223N	1	O-RING, HOUSING OUTLET	226N-80	1	O-RING, HOUSING OUTLET
352-30	2	POPPET	353-30	2	POPPET

RK34-350			RK1-350		
REPAIR KIT, COMPLETE MODEL 350, 3/4"			REPAIR KIT, COMPLETE MODEL 350, 1"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
352-300A	1	#1 CHECK ASSEMBLY	353-300A	1	#1 CHECK ASSEMBLY
352-300B	1	#2 CHECK ASSEMBLY	353-300B	1	#2 CHECK ASSEMBLY
214N	1	O-RING, HOUSING INLET	220N-80	1	O-RING, HOUSING INLET
223N	1	O-RING, HOUSING OUTLET	226N-80	1	O-RING, HOUSING OUTLET

RK34-350V			RK1-350V		
REPAIR KIT, VESSEL MODEL 350, 3/4"			REPAIR KIT, VESSEL MODEL 350, 1"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
ITEM 18	1	HOUSING ASSEMBLY	ITEM 18	1	HOUSING ASSEMBLY



WILKINS SERIES 350 D.C. .75" & 1" REPLACEMENT PARTS LIST



RK34-350BOF
RK1-350BOF

RK34-350BOF			RK1-350BOF		
BLOW OUT/FLUSH FITTING MODEL 350, 3/4"			BLOW OUT/FLUSH FITTING MODEL 350, 1"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
352-1BOF	1	HOUSING, BLOW OUT/FLUSH, 3/4"	353-1BOF	1	HOUSING, BLOW OUT/FLUSH, 1"
218N	1	O-RING, HOUSING INLET	223N-80	1	O-RING, HOUSING INLET
223N-80	1	O-RING, HOUSING OUTLET	226N-80	1	O-RING, HOUSING OUTLET



MODEL 350

Double Check Backflow Preventers 1-1/4" to 2"

WILKINS

a **ZURN** company

ITEM NO.	DESCRIPTION	1-1/4"	1-1/2"	2"
1	HOUSING	354-1A	354-1A	354-1A
2	INTEGRAL INLET BV	374-48A	375-48A	376-48A
3	O-RING	331N	331N	331N
4	SLEEVE	374-2	374-2	374-2
5	O-RING	337N	337N	337N
6	BOLT	352-11	352-11	352-11
7	TEST COCKS	14-860	14-860	14-860
8	BOLT	959-11B	959-11B	959-11B
9	STRUT (NOT AVAILABLE)	354-1S	354-1S	354-1S
10	INTEGRAL OUTLET BV	374-48B	375-48B	376-48B
11	SEAT, #1	374-18A	374-18A	374-18A
12	SPRING RETAINER, #1	354-80A	354-80A	354-80A
13	BOLT	374-11A	374-11A	374-11A
14	SEAL RETAINER	374-14A	374-14A	374-14A
15	SEAL WASHER	374-12A	374-12A	374-12A
16	POPPET	374-30	374-30	374-30
17	O-RING	336N	336N	336N
18	SEAT, #2	374-18B	374-18B	374-18B
19	SPRING, #2	374-33B	374-33B	374-33B
20	SPRING RETAINER, #2	374-80B	374-80B	374-80B
21	#1 CHECK ASSEMBLY	354-300A	354-300A	354-300A
22	#2 CHECK ASSEMBLY	374-300B	374-300B	374-300B
23	VESSEL W/CHECKS	RK114-350V	RK114-350V	RK114-350V
24	HOUSING, BLOW OUT/FLUSH	RK114-350-375BOF	RK114-350-375BOF	RK114-350-375BOF

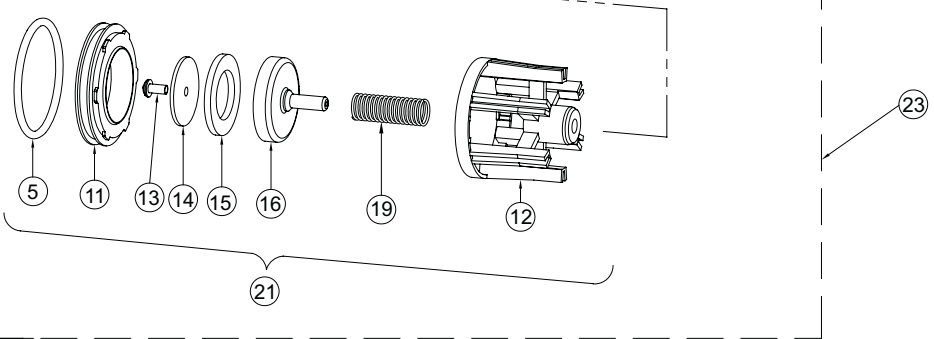
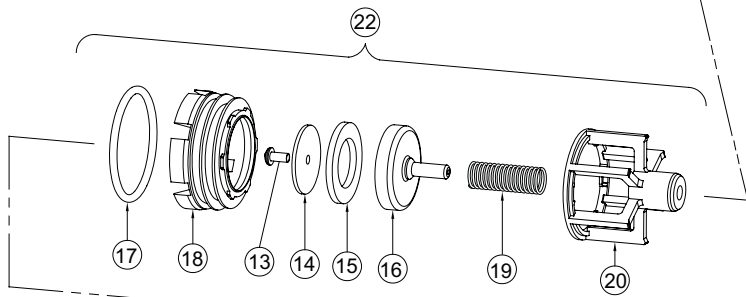
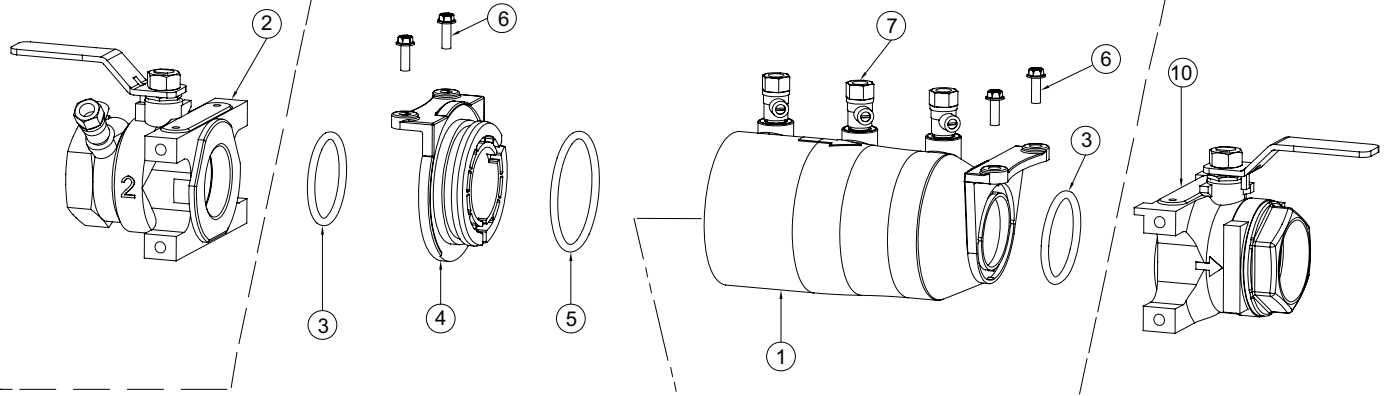
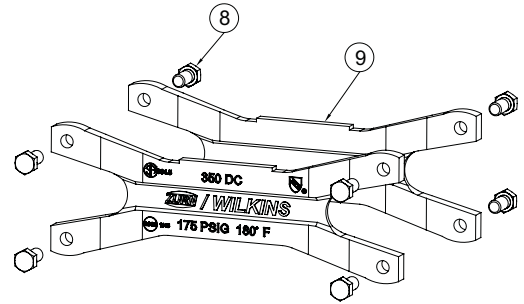
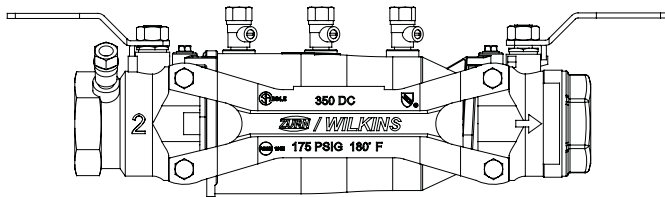
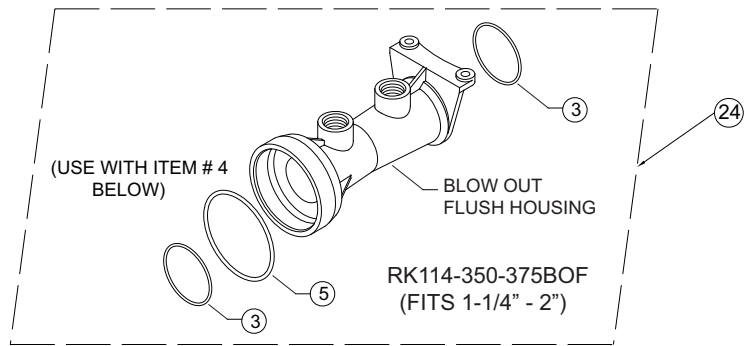
REPAIR KITS

RK114-350R REPAIR KIT, RUBBER MODEL 350, 1-1/4" -2"				RK114-350 REPAIR KIT, COMPLETE MODEL 350, 1-1/4" -2"			
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
3	331N	2	O-RING	3	331N	2	O-RING
5	337N	2	O-RING	5	337N	1	O-RING
15	374-12A	2	SEAL WASHER	21	354-300A	1	#1 CHECK ASSY
17	336N	1	O-RING	22	374-300B	1	#2 CHECK ASSY

RK114-350V REPAIR KIT, VESSEL MODEL 350, 1-1/4"-2"			RK114-350-375BOF BLOW OUT/FLUSH FITTING MODEL 350/375, 1-1/4" - 2"		
ITEM	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
23	1	VESSEL W/CHECKS	353-1BOF	1	HOUSING, BLOW OUT/FLUSH, 1-1/4"
			223N-80	1	O-RING, HOUSING INLET
			226N-80	1	O-RING, HOUSING OUTLET



WILKINS SERIES 350 D.C. 1.25" - 2" REPLACEMENT PARTS LIST





MODEL 350A & 350

Double Check

Backflow Preventers (350A 2 1/2"-10") (350 4"-12")

WILKINS

a ZURN company

ITEM NO.	DESCRIPTION	2 1/2"	3"	4"	6"	8"	10"	12"
1	GATE VALVE, NRS	212-48GXF	3-48GXF	4-48	6-48	8-48	10-48	12-48
	GATE VALVE, OS&Y	212-48OSYGXF	3-48OSYGXF	4-48OSY	6-48OSY	8-48OSY	10-48OSY	12-48OSY
	GATE VALVE, OS&Y (F&G)	212-48OSYGXF	3-48OSYGXF	4-48OSYGXF	6-48OSYGXF	8-48OSYGXF	10-48OSYGXF	N/A
	BUTTERFLY VALVE	212-49GVIC	3-49GVIC	4-49GVIC	6-49GVIC	8-49GVIC	10-49GVIC	N/A
2	BOLT, FLANGE	N/A	N/A	559-11	5510-11	9511-11B	9512-11B	9512-11B
3	NUT, FLANGE	N/A	N/A	558-9	5510-9	5510-9	9512-9A	9512-9A
4	GASKET, FLANGE	N/A	N/A	559-13	5510-13	9511-13	9512-13	9512-13
5	O-RING, COVER PLATE	031N	031N	031N	031N	142N	142N	142N
6	COVER PLATE	558-3AXL-010F	558-3AXL-010F	558-3AXL-010F	558-3AXL-010F	3511-3AXL-010F	3511-3AXL-010F	3511-3AXL-010F
7	BOLT, COVER PLATE	554-11A	554-11A	554-11A	554-11A	957-11	957-11	957-11
8	SEAT RETAINER #2	3509-140	3509-140	3509-140	3510-140	3511-14DSS	3511-14DSS	3511-14DSS
9	SEAT RETAINER #1	3509-14B	3509-14B	3509-14B	3510-14B	3511-9 (NUT)	3511-9 (NUT)	3511-9 (NUT)
10	COVER	3509-3C	3509-3C	3509-3C	3510-3C	3511-3C	3511-3C	3511-3C
11	COVER RETAINER ASSY	6-23	6-23	6-23	8-23	12-23	12-23	12-23
12	BULKHEAD FITTING ASSY	BHF1CXL-100	BHF1CXL-100	BHF1CXL-100	BHF2BXL-100	BHF2BXL-100	BHF2BXL-100	BHF2BXL-100
13	BALL VALVE	12-850XL	12-850XL	12-850XL	34-850XL	34-850XL	34-850XL	34-850XL
14	COUPLING	12-51	12-51	12-51	557-51	557-51	557-51	557-51
15	NIPPLE, LONG	558-21B	558-21B	558-21B	34X3-21B	34X3-21B	34X3-21B	34X3-21B
16	O-RING	353N	353N	353N	364N	273N	273N	273N
17	PLUG	558-7	558-7	558-7	5510-7	5510-7	5510-7	5510-7
18	BOLT, POPPET RETAINER	558-11E	558-11E	558-11E	5510-11A	3511-11	3511-11	3511-11
19	HANDLE, #1 POPPET ASSY	3509-6	3509-6	3509-6	3510-6	N/A	N/A	N/A
20	WASHER	3509-14C	3509-14C	3509-14C	3510-14C	3510-14C	3510-14C	3510-14C
21	O-RING	109N	109N	109N	204N	204N	204N	204N
22	POPPET RETAINER	3509-14	3509-14	3509-14	3510-14	3511-14	3511-14	3511-14
23	SEAL RING	3509-12	3509-12	3509-12	3510-12	3511-12	3511-12	3511-12
24	SEAT ASSEMBLY, #1 POPPET	3509-180	3509-180	3509-180	3510-180	3512-180A	3512-180A	3512-180A
25	SEAT ASSEMBLY, #2 POPPET	3509-180	3509-180	3509-180	3510-180	3512-180B	3512-180B	3512-180B
26	#1 CHECK ASSEMBLY	3509-300A	3509-300A	3509-300A	3510-300A	3512-300A	3512-300A	3512-300A
27	#2 CHECK ASSEMBLY	3509-300B	3509-300B	3509-300B	3510-300B	3512-300B	3512-300B	3512-300B
28	BULKHEAD FITTING ASSY	BHF1BXL-100	BHF1BXL-100	BHF1BXL-100	BHF1BXL-100	BHF2CXL-100	BHF2CXL-100	BHF2C-100
29	PLUG	558-7	558-7	558-7	558-7	558-7	558-7	558-7
30	BALL VALVE	12-850MXL	12-850MXL	12-850MXL	34-850XL	34-850XL	34-850XL	34-850XL
31	NIPPLE, LONG	N/A	N/A	N/A	5510-21B	5510-21B	5510-21B	5510-21B
32	LIFTING LUG	N/A	N/A	N/A	9510-24	9510-24	N/A	N/A
33	GASKET, COVER RETAINER	6-23-13	6-23-13	6-23-13	8-23-13	12-23-13	12-23-13	12-23-13
34	WASHER	N/A	N/A	N/A	N/A	3511-14E	3511-14E	3511-14E
35	BULKHEAD FITTING, GASKET	BHF1-13	BHF1-13	BHF1-13	BHF1-13	BHF1-13	BHF1-13	BHF1-13
36	GROOVED COUPLING	4X212-23	4X3-23	4-23	6-23	8-23	10-23	N/A
37	GASKET	N/A	N/A	4-23-13	6-23-13	8-23-13	10-23-13	N/A

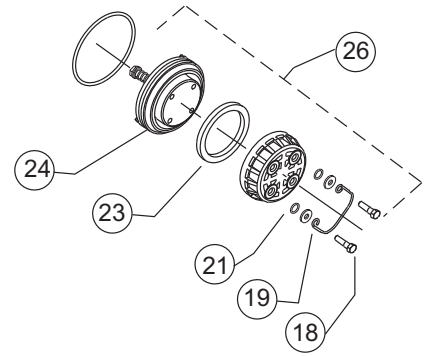
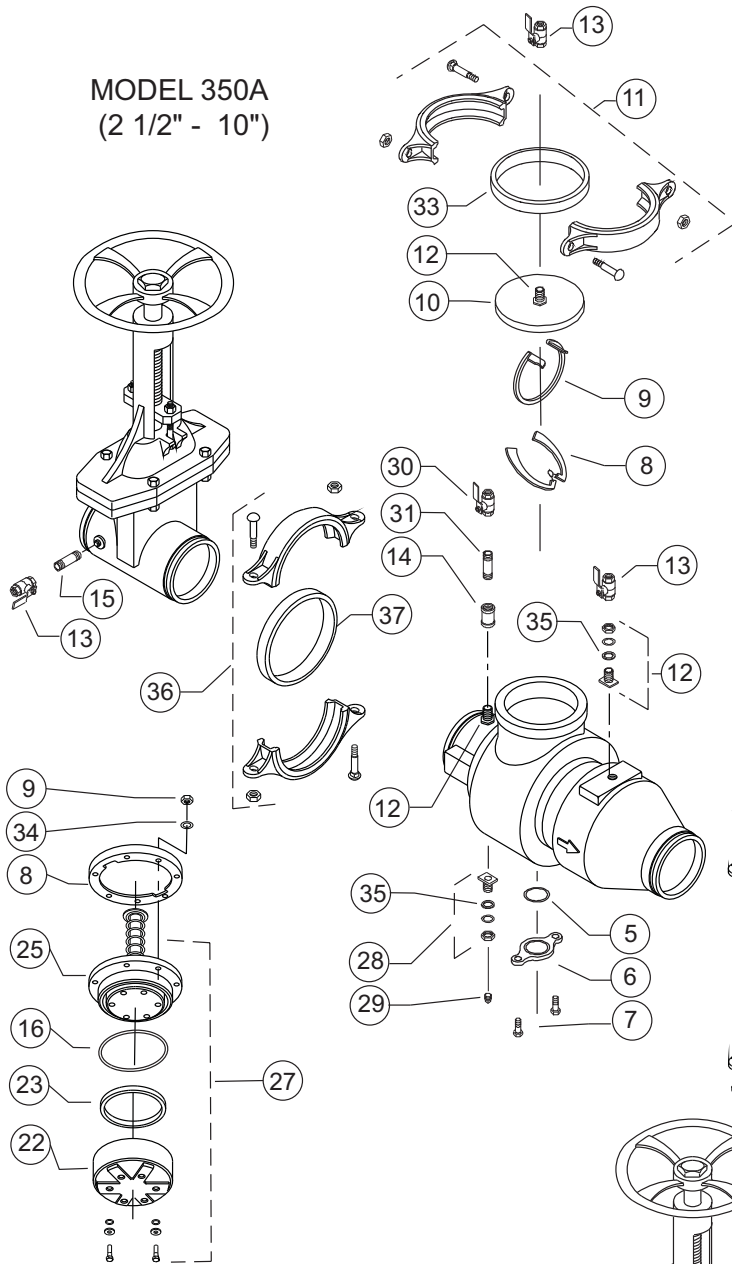
REPAIR KITS

REPAIR KIT RK4-350 MODEL 350 4" MODEL 350A, 2 1/2", 3", 4"			REPAIR KIT RK6-350 MODEL 350 & 350A, 6"			REPAIR KIT RK8-350 MODEL 350 8", 10", 12" MODEL 350A, 8", 10"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
3509-12	2	SEAL RING	3510-12	2	SEAL RING	3511-12	2	SEAL RING
353N	2	O-RING	364N	2	O-RING	273N	2	O-RING
109N	8	O-RING	204N	8	O-RING	204N	12	O-RING

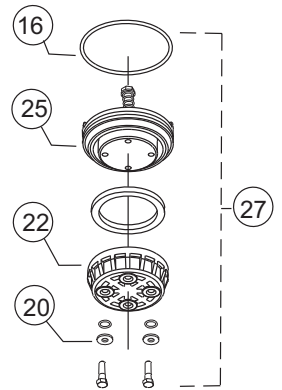


WILKINS SERIES 350A & 350 D.C. REPLACEMENT PARTS LIST

MODEL 350A (2 1/2" - 10")

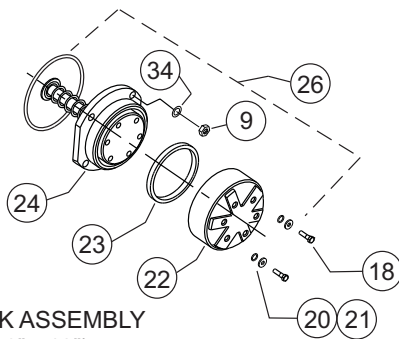


#1 CHECK ASSEMBLY (350 4" & 6") (350A 2 1/2" & 6")



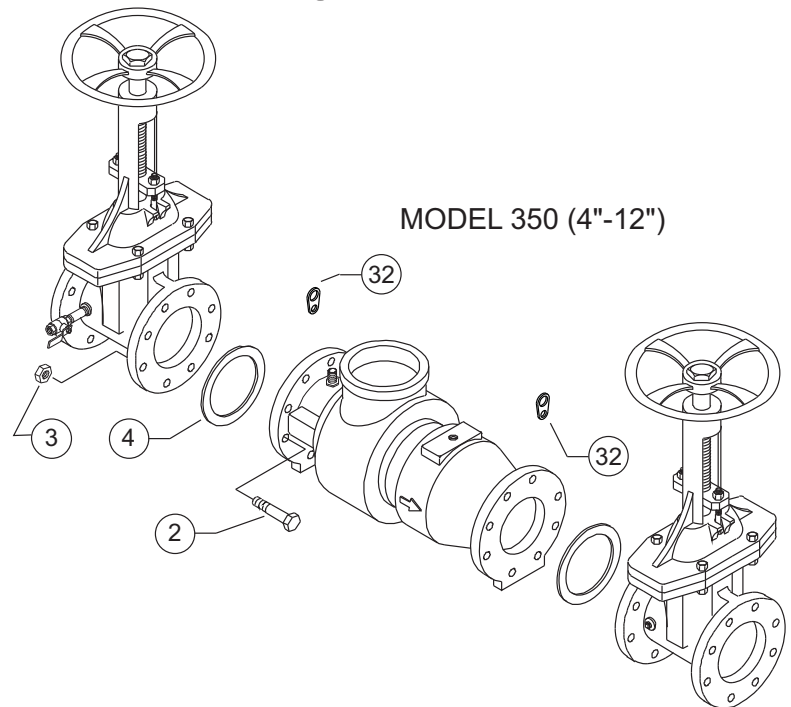
#2 CHECK ASSEMBLY (350 4" & 6") (350A 2 1/2" - 6")

#2 CHECK ASSEMBLY (350 8" - 12") (350A 8" & 10")



#1 CHECK ASSEMBLY (350 8" - 12") (350A 8" & 10")

MODEL 350 (4"-12")





MODEL 950XL



a **ZURN** company

Double Check Backflow Preventers 3/4" to 2"

ITEM NO.	DESCRIPTION	3/4"	1"	1-1/4"	1-1/2"	2"
1	CHECK COVER	952-3-010F	952-3-010F	954-3-010F	954-3-010F	954-3-010F
2	O-RING, COVER	136N	136N	153N	153N	153N
3	CHECK SPRING	952-33	952-33	554-33	554-33	554-33
4	POPPET	952-30-010F	952-30-010F	954-30-010F	954-30-010F	954-30-010F
5	SEAL RING	952-12S	952-12S	954-12S	954-12S	954-12S
6	SEAL RING RETAINER	952-14	952-14	954-14	954-14	954-14
7	RETAINING BOLT	952-11	952-11	952-11	952-11	952-11
8	CHECK SEAT	952-18S	952-18S	954-18S	954-18S	954-18S
9	O-RING, CHECK SEAT	WK-125N	WK-125N	136N	136N	136N
10	TEST COCK	18-860	18-860	14-860	14-860	14-860
11	BALL VALVE, TAPPED	34-850T	1-850T	114-850T	112-850T	2-850T
12	BALL VALVE	34-850	1-850	114-850	112-850	2-850
13	POPPET ASSEMBLY	952-300S	952-300S	954-300S	954-300S	954-300S
	CHECK SEAT TOOL	972-SEATTOOL		974-SEATTOOL		

REPAIR KITS

RK34-950XL REPAIR KIT, RUBBER & SPRING MODEL 950XL, 3/4" & 1" Only			RK114-950XL REPAIR KIT, RUBBER & SPRING MODEL 950XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-12S	2	SEAL RING	954-12S	2	SEAL RING
136N	2	O-RING, COVER	153N	2	O-RING, COVER
952-33	2	CHECK SPRING	554-33	2	CHECK SPRING

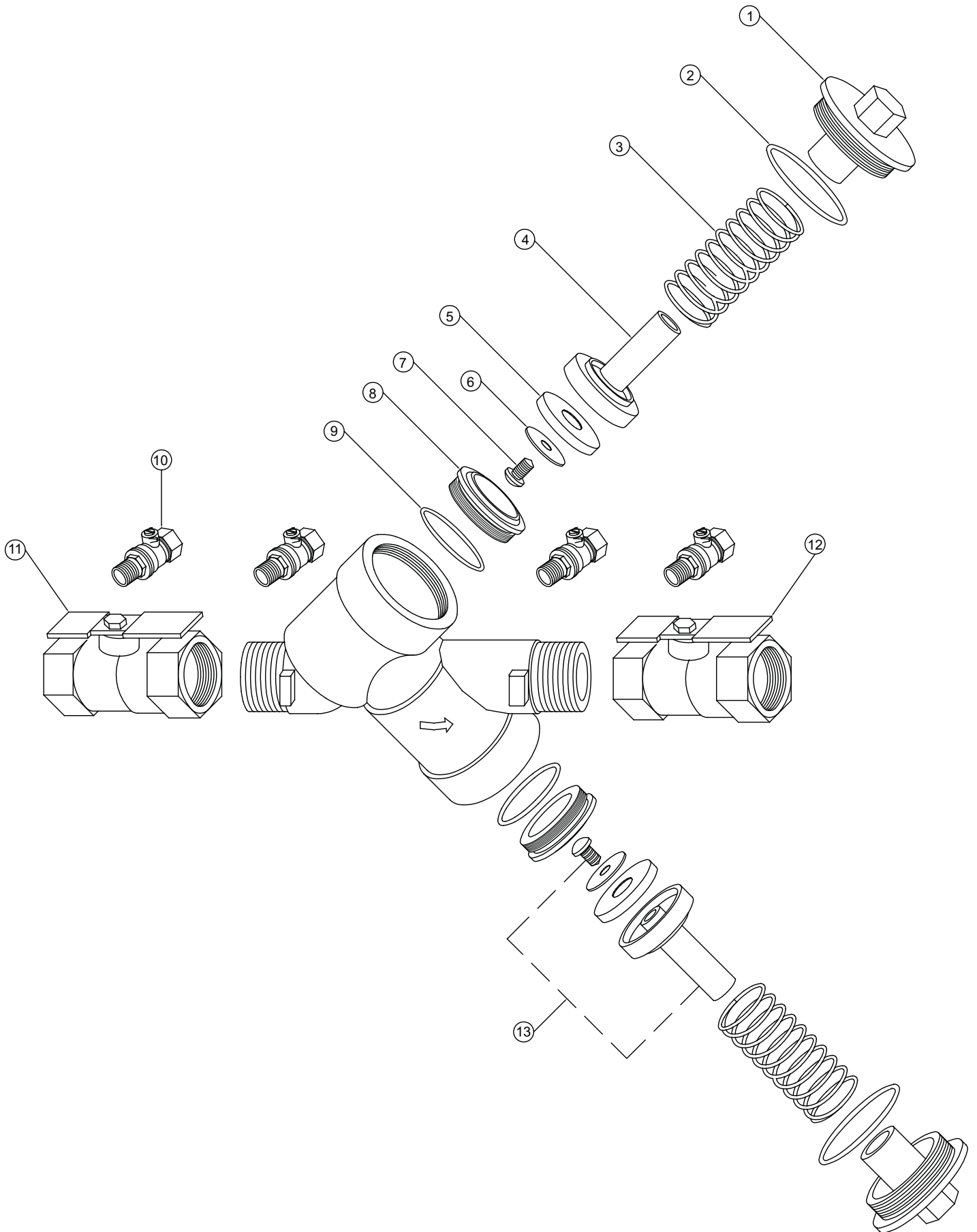
RK34-950XLC REPAIR KIT, COMPLETE MODEL 950XL, 3/4" & 1" Only			RK114-950XLC REPAIR KIT, COMPLETE MODEL 950XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-300	2	POPPET ASSY, 3/4" XL	954-300S	2	POPPET ASSY, 1-1/4" XL
952-18S	2	CHECK SEAT	954-18S	2	CHECK SEAT
136N	2	O-RING, COVER	153N	2	O-RING, COVER
WK-125N	2	O-RING, CHECK SEAT	136N	2	O-RING, CHECK SEAT
952-33	2	CHECK SPRING	554-33	2	CHECK SPRING

RK34-950XLR REPAIR KIT, RUBBER MODEL 950XL, 3/4" & 1" Only			RK114-950XLR REPAIR KIT, RUBBER MODEL 950XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-12S	2	SEAL RING	954-12S	2	SEAL RING
136N	2	O-RING, COVER	153N	2	O-RING, COVER

RK34-950XLSK REPAIR KIT, SEATS MODEL 950XL, 3/4" & 1" Only			RK114-950XLSK REPAIR KIT, SEATS MODEL 950XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-18S	2	CHECK SEAT	954-18S	2	CHECK SEAT
WK-125N	2	O-RING, COVER	136N	2	O-RING, CHECK SEAT



WILKINS SERIES 950XL D.C. REPLACEMENT PARTS LIST





MODEL 950



a ZURN company

Double Check Backflow Preventers 2-1/2" to 10"

ITEM NO.	DESCRIPTION	2-1/2"	3"	4"	6"	8"	10"
1	GATE VALVE, NRS	212-48	3-48	4-48	6-48	8-48	10-48
	GATE VALVE, OS&Y	212-48OSY	3-48OSY	4-48OSY	6-48OSY	8-48OSY	10-48OSY
2	BOLT, FLANGE	558-11D	558-11D	559-11	5510-11	9511-11B	9512-11B
3	NUT, FLANGE	558-9	558-9	558-9	5510-9	5510-9	9512-9A
4	GASKET, FLANGE	557-13	558-13	559-13	5510-13	9511-13	9512-13
5	STUD, FLANGE	959-11A	959-11A	959-11A	9511-11A	9511-11A	N/A
6	O-RING, SMALL	022N	022N	022N	022N	022N	022N
7	O-RING, LARGE	033N	033N	033N	033N	036N	036N
8	COVER PLATE	957-3A-010F	957-3A-010F	957-3A-010F	957-3A-010F	9511-3A-010F	9511-3A-010F
9	BOLT, COVER PLATE	554-11A	554-11A	554-11A	554-11A	554-11A	554-11A
10	COVER	957-3C	957-3C	959-3C	9510-3C	9511-3C	9512-3C
11	O-RING, COVER	248N	248N	264N	374N	452N	457N
12	BOLT, COVER	957-11	957-11	959-11	9510-11	9511-11	9512-11
13	NIPPLE, SHORT	N/A	N/A	N/A	102-21B	102-21B	102-21B
14	BALL VALVE, MALE	12-850M	12-850M	12-850M	N/A	N/A	N/A
	BALL VALVE, FEMALE	12-850	12-850	12-850	34-850XL	34-850XL	34-850XL
15	O-RING, SEAT	238N	238N	252N	366N	374N	379N
16	SEAT	957-18-010F	957-18-010F	959-18-010F	9510-18-010F	9511-18-010F	9512-18-010F
17	BOLT, SEAT	5752-11	5752-11	959-11B	959-11B	959-11B	959-11B
18	LOWER STEM GUIDE	N/A	N/A	959-2	957-2	9511-2	9512-2
19	NUT, STEM	957-9	957-9	959-9	9511-9	9511-9	9512-9
20	RETAINING PLATE	957-31-010F	957-31-010F	959-14-010F	9510-14-010F	9511-14-010F	9512-14-010F
21	SEAL RING	558-12	558-12	959-12	9510-12	9511-12	9512-12
22	POPPET ASSEMBLY	957-300	957-300	959-300	9510-300	9511-300	9512-300
23	UPPER STEM GUIDE	957-2	957-2	957-2	9510-2	9511-2A	9512-2A
24	NIPPLE, LONG	558-21B	558-21B	558-21B	5510-21B	5510-21B	5510-21B
25	PLUG	558-7	558-7	558-7	5510-7	5510-7	5510-7
26	LIFTING LUG	N/A	N/A	N/A	9510-24	9510-24	N/A

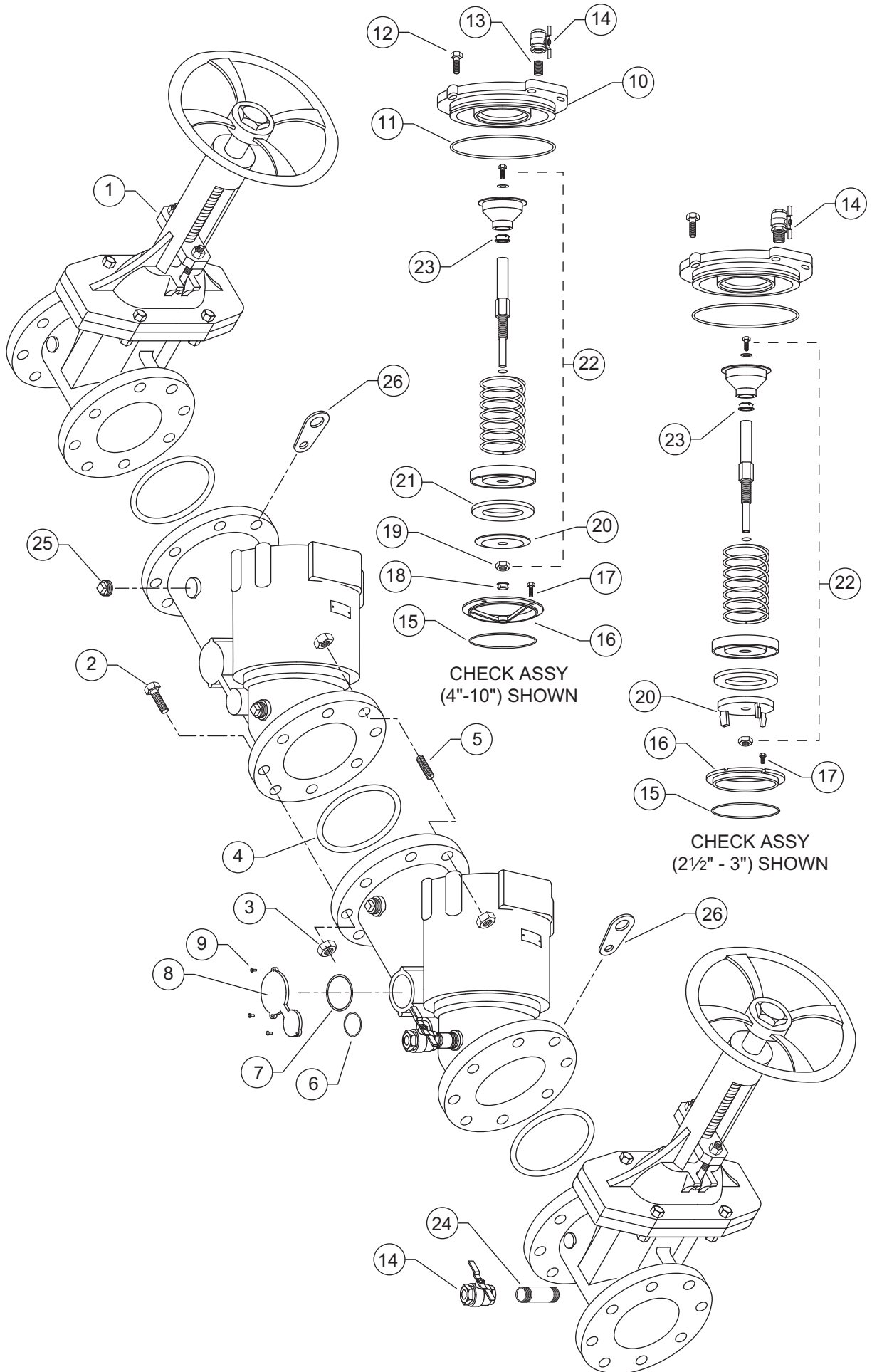
REPAIR KITS

REPAIR KIT RK212-950 MODELS 950/975 2-1/2" & 3"			REPAIR KIT RK6-950 MODELS 950/975, 6"			REPAIR KIT RK10-950 MODELS 950/975, 10"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
558-12	2	SEAL RING	9510-12	2	SEAL RING	9512-12	2	SEAL RING
248N	2	O-RING, COVER	374N	2	O-RING, COVER	457N	2	O-RING, COVER

REPAIR KIT RK4-950 MODELS 950/975, 4"			REPAIR KIT RK8-950 MODELS 950/975, 8"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
959-12	2	SEAL RING	9511-12	2	SEAL RING
264N	2	O-RING, COVER	452N	2	O-RING, COVER



WILKINS SERIES 950 D.C. REPLACEMENT PARTS LIST





MODEL 375

Reduced Pressure Principle Backflow Preventers 3/4" to 1"



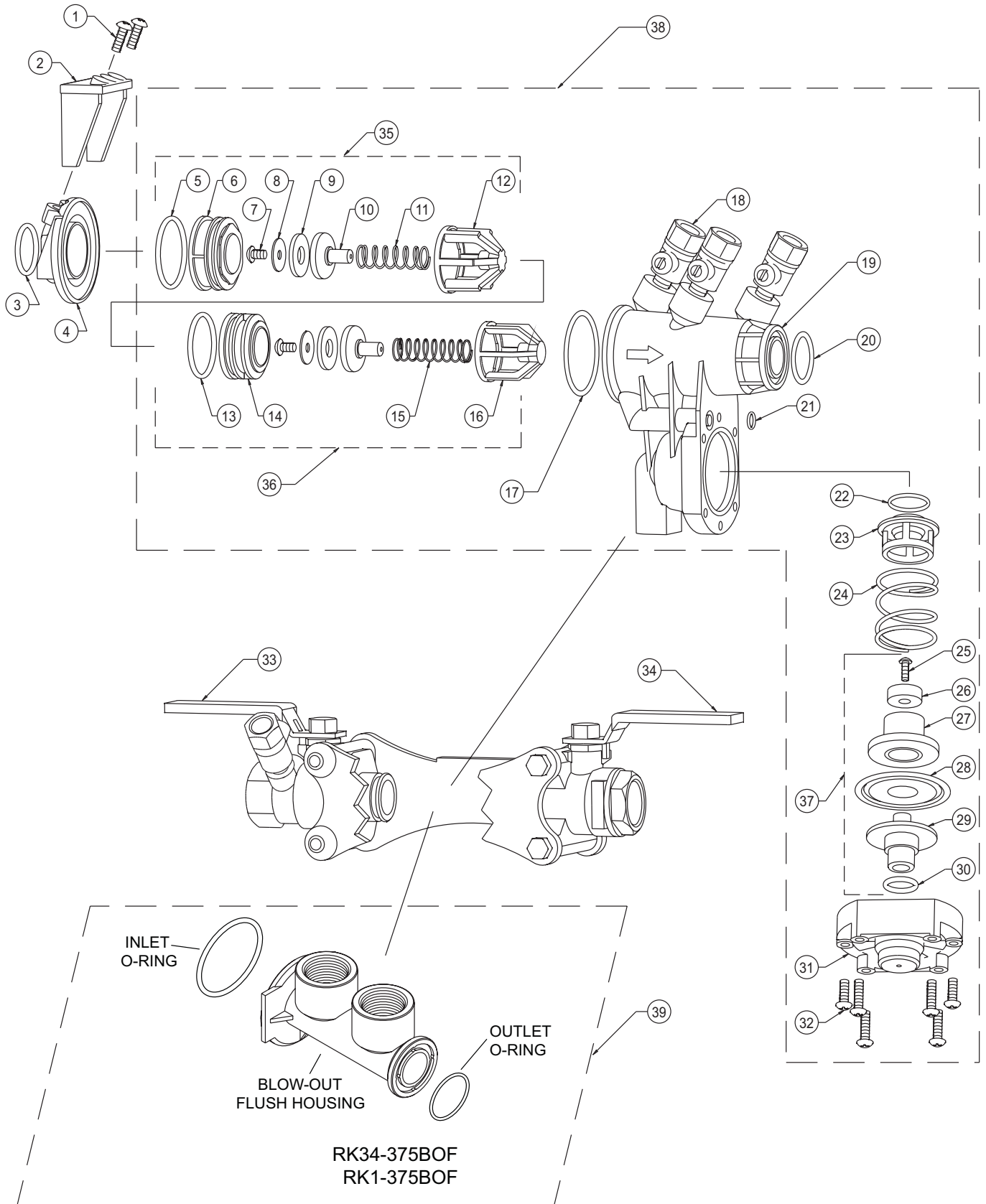
REPAIR KITS

ITEM NO.	DESCRIPTION	3/4"	1"
1	WEDGE SCREW	372-11B	373-11B
2	WEDGE	372-23	373-23
3	O-RING, SLEEVE	118N	216N
4	SLEEVE	372-2	373-2
5	O-RING, #1 CHECK SEAT	124N	225N
6	#1 CHECK SEAT	372-18A	373-18A
7	POPPET SCREW	30-11	952-11
8	CHECK SEAL RETAINER	372-14A	373-14A
9	CHECK SEAL RING	372-12A	373-12A
10	POPPET	372-30	373-30
11	#1 CHECK SPRING	372-33A	373-33A
12	#1CHECK SPRING RETAINER	372A-80A	373A-80A
13	O-RING, #2 CHECK SEAT	124N	223N
14	#2 CHECK SEAT	372-18B	373-18B
15	#2 CHECK SPRING	372-33B	373-33B
16	#2 CHECK SPRING RETAINER	372A-80B	373A-80B
17	O-RING, HOUSING INLET	130N	227N
18	TEST COCK	18-860	18-860
19	CHECK HOUSING	372-1	373-1
20	O-RING, HOUSING OUTLET	119N	218N
21	O-RING, RV COVER	010N	010N
22	O-RING, RV SEAT	018N	018N
23	RELIEF VALVE SEAT	372-18	372-18
24	RELIEF VALVE SPRING	372-33CU	372-33CU
25	RV SEAL RETAINING SCREW	372-11C	372-11C
26	RV SEAL RING	372-12	372-12
27	RV LOWER PLUNGER	372-34A	372-34A
28	DIAPHRAGM	372-43	372-43
29	RV UPPER PLUNGER	372-34	372-34
30	O-RING, RV STEM	015N	015N
31	RELIEF VALVE COVER	372-3	373-3
32	RV COVER SCREW, SHORT	372-11B	372-11B
	RV COVER SCREW, LONG	372-11	
33	INLET BALL VALVE	372-48A	373-48A
34	OUTLET BALL VALVE	372-48B	373-48B
35	#1 CHECK ASSEMBLY	372-300A	373-300A
36	#2 CHECK ASSEMBLY	372-300B	373-300B
37	RELIEF VALVE STEM ASSY	372-50	372-50
38	COMPLETE VESSEL ASSY	RK34-375V	RK1-375V
39	HOUSING, BLOW OUT/FLUSH	372-1BOF	373-1BOF

REPAIR KIT COMPLETE	RK34-375 3/4" 375		RK1-375 1" 375	
DESCRIPTION	PART NO.	QTY.	PART NO.	QTY.
#1 CHECK ASSEMBLY	372-300A	1	373-300A	1
#2 CHECK ASSEMBLY	372-300B	1	373-300B	1
RELIEF VALVE STEM ASSY	372-50	1	372-50	1
O-RING, SLEEVE	118N	1	216N	1
O-RING, HOUSING INLET	130N	1	227N	1
O-RING, HOUSING OUTLET	119N	1	218N	1
O-RING, RV COVER	010N	1	010N	1
O-RING, RV SEAT	018N	1	018N	1
RELIEF VALVE SEAT	372-18	1	372-18	1
RELIEF VALVE SPRING	372-33CU	1	372-33CU	1
REPAIR KIT, RUBBER ONLY	RK34-375R 3/4" 375		RK1-375R 1" 375	
DESCRIPTION	PART NO.	QTY.	PART NO.	QTY.
O-RING, #1 CHECK SEAT	124N	1	225N	1
O-RING, #2 CHECK SEAT	124N	1	223N	1
CHECK SEAL RING	372-12A	2	373-12A	2
O-RING, SLEEVE	118N	1	216N	1
O-RING, HOUSING INLET	130N	1	227N	1
O-RING, HOUSING OUTLET	119N	1	218N	1
O-RING, RV COVER	010N	1	010N	1
O-RING, RV SEAT	018N	1	018N	1
RELIEF VALVE SEAL RING	372-12	1	372-12	1
DIAPHRAGM	372-43	1	372-43	1
O-RING, RV STEM	015N	1	015N	1
REPAIR KIT, VESSEL ASSY	RK34-375V 3/4" 375		RK1-375V 1" 375	
DESCRIPTION	PART NO.	QTY.	PART NO.	QTY.
VESSEL W/CHECKS AND RV	ITEM 38	1	ITEM 38	1
REPAIR KIT, WEDGE ASSY	RK34-375W 3/4" 375		RK1-375W 1" 375	
DESCRIPTION	PART NO.	QTY.	PART NO.	QTY.
O-RING, SLEEVE	118N	1	216N	1
SLEEVE	372-2	1	373-2	1
WEDGE	372-23	1	373-23	1
WEDGE SCREW	372-11B	2	373-11B	2
BLOW OUT/FLUSH FITTING	RK34-375BOF 3/4" 375		RK1-375BOF 1" 375	
DESCRIPTION	PART NO.	QTY.	PART NO.	QTY.
HOUSING, BLOW OUT/FLUSH	372-1BOF	1	373-1BOF	1
O-RING, HOUSING INLET	130N	1	227N	1
O-RING, HOUSING OUTLET	119N	1	218N	1



WILKINS SERIES 375 R.P. REPLACEMENT PARTS LIST





MODEL 375

Reduced Pressure Principle Backflow Preventers 1-1/4" to 2"

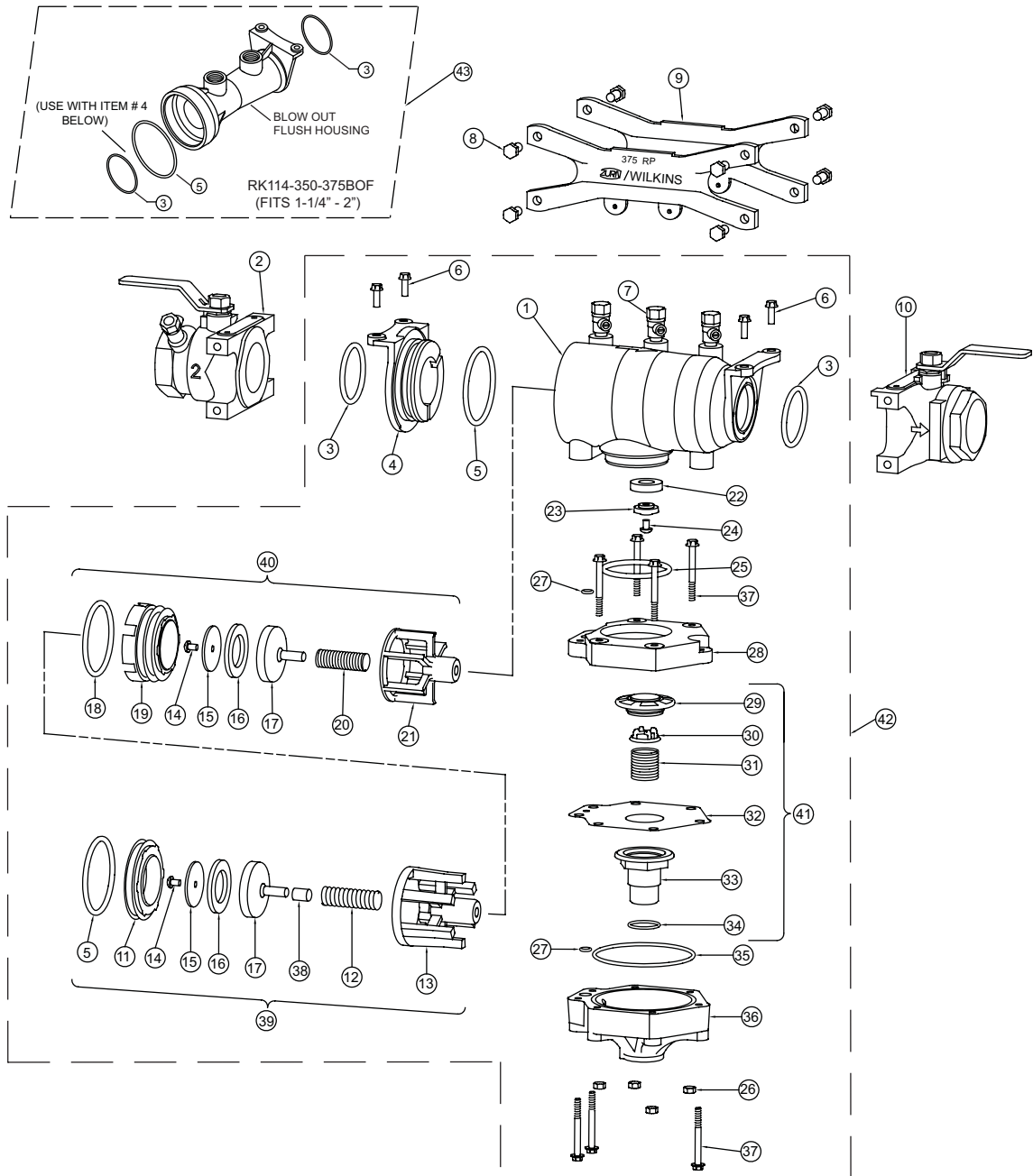
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ITEM NO.	DESCRIPTION	1-1/4"	1-1/2"	2"
1	HOUSING	374-1	374-1	374-1
2	INTEGRAL INLET BV	374-48A	375-48A	376-48A
3	O-RING	331N	331N	331N
4	SLEEVE	374-2	374-2	374-2
5	O-RING	337N	337N	337N
6	BOLT	352-11	352-11	352-11
7	TEST COCKS	14-860	14-860	14-860
8	BOLT	959-11B	959-11B	959-11B
9	STRUT (NOT AVAILABLE)	374-1S	374-1S	374-1S
10	INTEGRAL OUTLET BV	374-48B	375-48B	376-48B
11	SEAT, #1	374-18A	374-18A	374-18A
12	SPRING, #1	374-33A	374-33A	374-33A
13	SPRING RETAINER, #1	374-80A	374-80A	374-80A
14	BOLT	374-11A	374-11A	374-11A
15	SEAL RETAINER	374-14A	374-14A	374-14A
16	SEAL WASHER	374-12A	374-12A	374-12A
17	POPPET	374-30	374-30	374-30
18	O-RING	336N	336N	336N
19	SEAT, #2	374-18B	374-18B	374-18B
20	SPRING, #2	374-33B	374-33B	374-33B
21	SPRING RETAINER, #2	374-80B	374-80B	374-80B
22	SEAL WASHER	374-12	374-12	374-12
23	SEAL RETAINER	374-14CU	374-14CU	374-14CU
24	BOLT	952-11	952-11	952-11
25	O-RING	334N	334N	334N
26	NUT	5752-9	5752-9	5752-9
27	O-RING	109N	109N	109N
28	BODY, RV	374-1CU	374-1CU	374-1CU
29	SEAT, RV	374-18CU	374-18CU	374-18CU
30	SPRING GUIDE	374-80CU	374-80CU	374-80CU
31	SPRING, RV	374-33CU	374-33CU	374-33CU
32	DIAPHRAGM	374-43	374-43	374-43
33	PLUNGER, RV	374-34	374-34	374-34
34	O-RING	123N	123N	123N
35	O-RING	243N	243N	243N
36	COVER	374-3	374-3	374-3
37	BOLT	374-11	374-11	374-11
38	SPACER	374-2A	374-2A	-
39	#1 CHECK ASSY	374-300A	374-300A	374-300A
40	#2 CHECK ASSY	374-300B	374-300B	374-300B
41	RELIEF VALVE STEM ASSY	374-50	374-50	374-50
42	VESSEL W/CHECKS & RV	RK114-375V	RK114-375V	RK114-375V
43	HOUSING, BLOW OUT/FLUSH	RK114-350-375BOF	RK114-350-375BOF	RK114-350-375BOF



WILKINS SERIES 375 R.P. REPLACEMENT PARTS LIST



REPAIR KITS

RK114-375R				RK114-375				RK114-375V		
REPAIR KIT MODEL 375, 1-1/4" - 2"				REPAIR KIT MODEL 375, 1-1/4" - 2"				REPAIR KIT MODEL 375, 1-1/4" - 2"		
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
3	331N	2	O-RING	3	331N	2	O-RING	42	1	VESSEL W/CHECKS & RV
5	337N	2	O-RING	5	337N	1	O-RING	BLOW OUT/ FLUSH FITTING RK114-350-375BOF MODEL 375, 1-1/4" - 2"		
16	374-12A	2	SEAL WASHER	39	374-300A	1	#1 CHECK ASSY			
18	336N	1	O-RING	40	374-300B	1	#2 CHECK ASSY			
22	374-12	1	SEAL WASHER	22	374-12	1	SEAL WASHER			
25	334N	1	O-RING	23	374-14CU	1	SEAL RETAINER			
27	109N	2	O-RING	25	334N	1	O-RING	ITEM	QTY.	DESCRIPTION
32	374-43	1	DIAPHRAGM	27	109N	2	O-RING	1	1	BODY, BLOW OUT FLUSH
34	123N	1	O-RING	35	243N	1	O-RING	3	2	O-RING
35	243N	1	O-RING	41	374-50	1	RELIEF VL.V. STEM ASSY	5	1	O-RING

MODEL 375A & 375

**Reduced Pressure Principle
Backflow Preventers (375A 2 1/2"-10") (375 4"-10")**

WILKINS

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ITEM NO.	DESCRIPTION	2 1/2"	3"	4"	6"	8"	10"
1	GATE VALVE, NRS	212-48GXF	3-48GXF	4-48	6-48	8-48	10-48
	GATE VALVE, OS&Y	212-48OSYGXF	3-48OSYGXF	4-48OSY	6-48OSY	8-48OSY	10-48OSY
	GATE VALVE, OS&Y (F&G)	212-48OSYGXF	3-48OSYGXF	4-48OSYGXF	6-48OSYGXF	8-48OSYGXF	10-48OSYGXF
	BUTTERFLY VALVE	212-49GVIC	3-49GVIC	4-49GVIC	6-49GVIC	8-49GVIC	10-49GVIC
2	BOLT, FLANGE	N/A	N/A	559-11	5510-11	9511-11B	9512-11B
3	NUT, FLANGE	N/A	N/A	558-9	5510-9	5510-9	9512-9A
4	GASKET, FLANGE	N/A	N/A	559-13	5510-13	9511-13	9512-13
5	O-RING, CONTROL UNIT	032N	032N	032N	032N	142N	142N
6	RELIEF VALVE ASSY	3707-CU-XL	3707-CU-XL	3707-CU-XL	3707-CU-XL	3711-CU-XL	3711-CU-XL
7	BOLT, RELIEF VALVE	554-11A	554-11A	554-11A	554-11A	957-11	957-11
8	SEAT RETAINER #2	3509-140	3509-140	3509-140	3510-140	3511-14DSS	3511-14DSS
9	SEAT RETAINER #1	3509-14B	3509-14B	3509-14B	3510-14B	3511-9 (NUT)	3511-9 (NUT)
10	COVER	3509-3C	3509-3C	3509-3C	3510-3C	3511-3C	3511-3C
11	COVER RETAINER ASSY	6-23	6-23	6-23	8-23	12-23	12-23
12	BULKHEAD FITTING ASSY	BHF1CXL-100	BHF1CXL-100	BHF1CXL-100	BHF2BXL-100	BHF2BXL-100	BHF2BXL-100
13	BALL VALVE	12-850XL	12-850XL	12-850XL	34-850XL	34-850XL	34-850XL
14	COUPLING	12-51	12-51	12-51	557-51	557-51	557-51
15	NIPPLE, LONG	558-21B	558-21B	558-21B	34X3-21B	34X3-21B	34X3-21B
16	PLUG	558-7	558-7	558-7	5510-7	5510-7	5510-7
17	O-RING	353N	353N	353N	364N	273N	273N
18	BOLT, POPPET RETAINER	558-11E	558-11E	558-11E	5510-11A	3511-11	3511-11
19	HANDLE, #1 POPPET ASSY	3509-6	3509-6	3509-6	3510-6	N/A	N/A
20	WASHER	3509-14C	3509-14C	3509-14C	3510-14C	3510-14C	3510-14C
21	O-RING	109N	109N	109N	204N	204N	204N
22	POPPET RETAINER	3509-14	3509-14	3509-14	3510-14	3511-14	3511-14
23	SEAL RING	3509-12	3509-12	3509-12	3510-12	3511-12	3511-12
24	SEAT ASSEMBLY, #1 POPPET	3709-180	3709-180	3709-180	3710-180	3712-180	3712-180
25	SEAT ASSEMBLY, #2 POPPET	3509-180	3509-180	3509-180	3510-180	3512-180B	3512-180B
26	#1 CHECK ASSEMBLY	3709-300	3709-300	3709-300	3710-300	3712-300	3712-300
27	#2 CHECK ASSEMBLY	3509-300B	3509-300B	3509-300B	3510-300B	3512-300B	3512-300B
28	BULKHEAD FITTING ASSY	BHF1BXL-100	BHF1BXL-100	BHF1BXL-100	BHF1BXL-100	BHF2CXL-100	BHF2CXL-100
29	SENSING TUBE FITTING	5758A-36	5758A-36	5758A-36	5758A-36	5758A-36	5758A-36
30	PITOT TUBE ASSY	3709-360	3709-360	3709-360	3709-360	3711-360	3711-360
31	SENSING TUBE	3709-36	3709-36	3709-36	3710-36	4710-36	4710-36
32	BALL VALVE	12-850MXL	12-850MXL	12-850MXL	34-850XL	34-850XL	34-850XL
33	BULKHEAD FITTING, GASKET	BHF1-13	BHF1-13	BHF1-13	BHF1-13	BHF1-13	BHF1-13
34	LIFTING LUG	N/A	N/A	N/A	9510-24	9510-24	N/A
35	GASKET, COVER RETAINER	6-23-13	6-23-13	6-23-13	8-23-13	12-23-13	12-23-13
36	WASHER	N/A	N/A	N/A	N/A	3511-14E	3511-14E
37	NIPPLE, LONG	N/A	N/A	N/A	5510-21B	5510-21B	5510-21B
38	GROOVED COUPLING	4X212-23	4X3-23	4-23	6-23	8-23	10-23
39	COUPLING GASKET	N/A	N/A	4-23-13	6-23-13	8-23-13	10-23-13

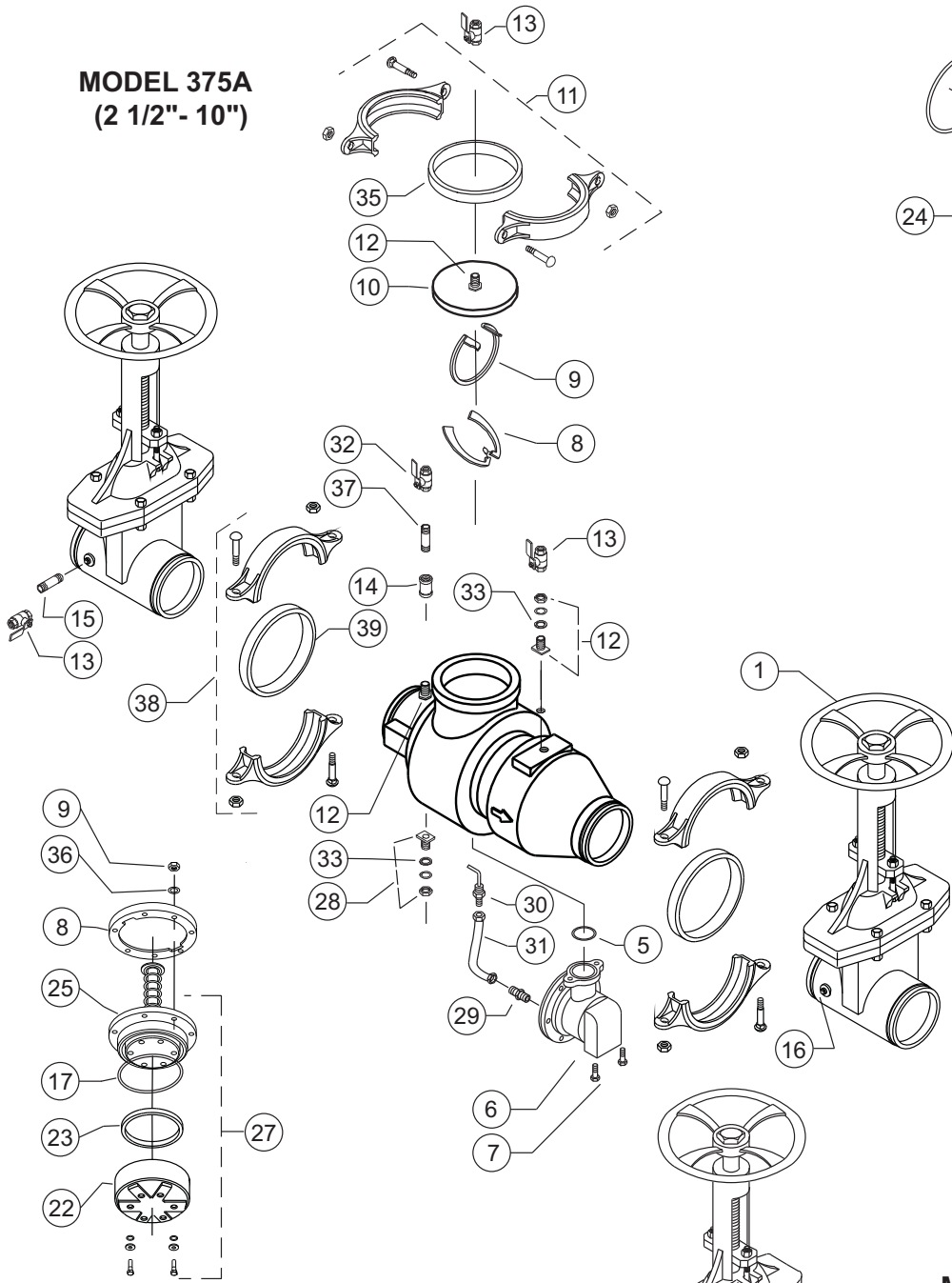
REPAIR KITS

REPAIR KIT RK4-350 MODEL 375, 4" MODEL 375A, 2 1/2"-4"			REPAIR KIT RK6-350 MODEL 375 & 375A, 6"			REPAIR KIT RK8-350 MODEL 375, & 375A, 8"-10"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
3509-12	2	SEAL RING	3510-12	2	SEAL RING	3511-12	2	SEAL RING
353N	2	O-RING	364N	2	O-RING	273N	2	O-RING
109N	8	O-RING	204N	8	O-RING	204N	12	O-RING

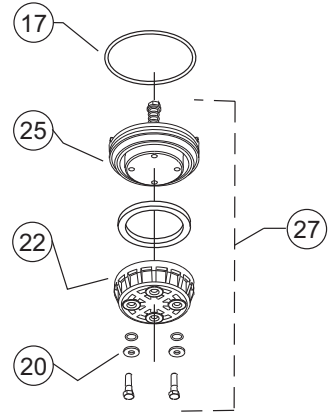


WILKINS SERIES 375A & 375 R.P. REPLACEMENT PARTS LIST

MODEL 375A (2 1/2" - 10")

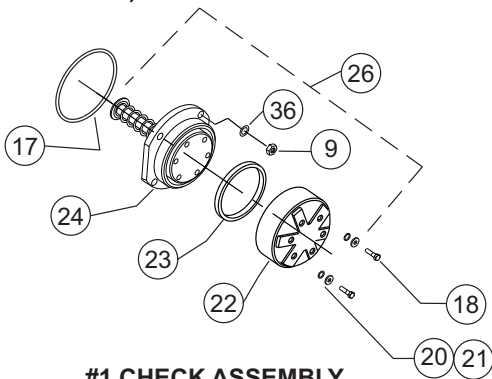


#1 CHECK ASSEMBLY (375 4" & 6") (375 & 375A 4" & 6")



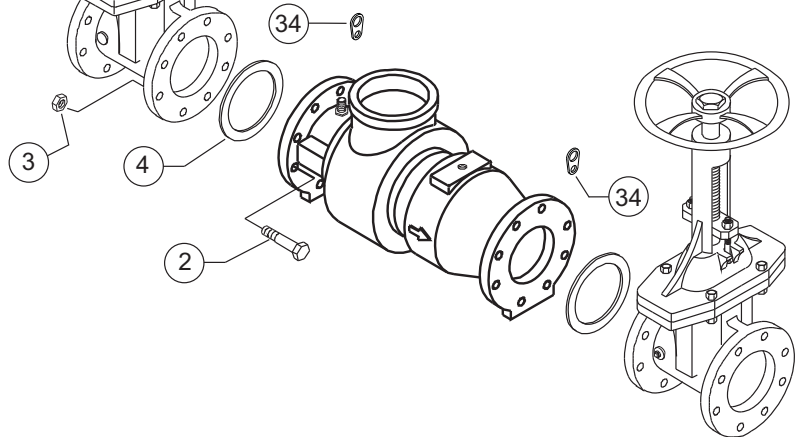
#2 CHECK ASSEMBLY (375 4" & 6") (375A 2 1/2" - 6")

#2 CHECK ASSEMBLY (375 & 375A 8" & 10")



#1 CHECK ASSEMBLY (375 & 375A 8" & 10")

MODEL 375 (4" - 10")



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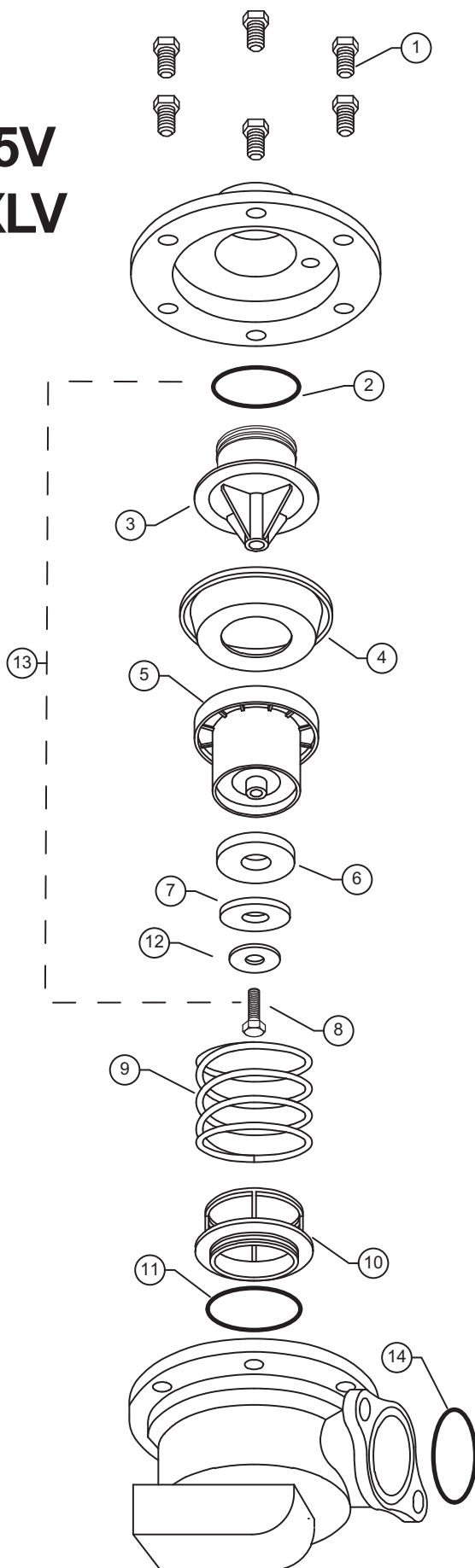
MODEL 375, 375A, 475 & 475V 375XL, 375AXL, 475XL & 475XLV Relief Valve 2-1/2" to 10"

RELIEF VALVE COMPLETE			3707-CU-XL		3711-CU-XL	
ITEM NO.	DESCRIPTION	QTY.	2-1/2"-6"	QTY.	8" & 10"	
1	BOLT, COVER	6	554-11A	8	957-11	
2	O-RING	1	222N	1	227N	
3	UPPER PLUNGER	1	3707-34	1	3711-34	
4	DIAPHRAGM	1	3707-43	1	3711-43	
5	LOWER PLUNGER	1	3707-34A	1	3711-34A	
6	SEAL RING	1	3707-12	1	3711-12	
7	SEAL RETAINER	1	3707-14	1	3711-14	
8	SCREW	1	558-11E	1	558-11E	
9	CU SPRING	1	3707-33A	1	3711A-33	
10	CU SEAT	1	3707-18	1	3711-18	
11	O-RING	1	032N	1	146N	
12	WASHER	1	N/A	1	3707-14	
13	STEM ASSY.	1	3707-50	1	3711-50	
14	O-RING	1	032N	1	142N	

REPAIR KITS

REPAIR KITS, RUBBER			RK212-375R 2-1/2"- 6"	RK8-375R 8" & 10"
ITEM NO.	DESCRIPTION	QTY.	PART NO.	PART NO.
6	SEAL RING	1	3707-12	3711-12
4	DIAPHRAGM	1	3707-43	3711-43
2	O-RING	1	222N	227N
11	O-RING	1	032N	146N
14	O-RING	1	032N	142N

REPAIR KITS, COMPLETE			RK212-375 2-1/2"- 6"	RK8-375 8" & 10"
ITEM NO.	DESCRIPTION	QTY.	PART NO.	PART NO.
N/A	REPAIR KIT, RUBBER	1	RK212-375R	RK8-375R
9	SPRING	1	3707-33A	3711A-33





MODEL 975XL
 Reduced Pressure Principle
 Backflow Preventers 3/4" to 2"



ITEM NO.	DESCRIPTION	3/4"	1"	1-1/4"	1-1/2"	2"
1	BALL VALVE, TAPPED	34-850T	1-850T	114-850T	112-850T	2-850T
2	BALL VALVE	34-850	1-850	114-850	112-850	2-850
	BFLY VALVE*	N/A	N/A	114-49BR	112-49BR	2-49BR
	BFLY VALVE, TAPPED*	N/A	N/A	114-48BRT	112-BRT	2-49BRT
3	O-RING, CHECK SEAT	WK-125N	WK-125N	136N	136N	136N
4	CHECK SEAT	952-18S	952-18S	954-18S	954-18S	954-18S
5	RETAINING BOLT	952-11	952-11	952-11	952-11	952-11
6	SEAL RING RETAINER	952-14	952-14	954-14	954-14	954-14
7	SEAL RING	952-12S	952-12S	954-12S	954-12S	954-12S
8	POPPET	952-30-010F	952-30-010F	954-30-010F	954-30-010F	954-30-010F
9	NO.1 CHECK SPRING	972-33	972-33	5754-33	5754-33	5754-33
10	O-RING, COVER	136N	136N	153N	153N	153N
11	CHECK COVER	952-3-010F	952-3-010F	954-3-010F	954-3-010F	954-3-010F
12	POPPET ASSY.	952-300S	952-300S	954-300S	954-300S	954-300S
13	NO.2 CHECK SPRING	952-33	952-33	554-33	554-33	554-33
14	TEST COCK	18-860	18-860	14-860	14-860	14-860
15	O-RING, RELIEF VALVE SEAT	WK-019N	WK-019N	029N	029N	029N
16	RELIEF VALVE SEAT	972-18	972-18	974-18	974-18	974-18
17	RELIEF VALVE SPRING	972A-33	972A-33	974A-33	974A-33	974A-33
18	RELIEF VALVE RETAINING BOLT	972-11A	972-11A	604B-11	604B-11	604B-11
19	RELIEF VALVE SEAL RING RETAINER	972-14	972-14	552-14	552-14	552-14
20	RELIEF VALVE SEAL RING	972-12S	972-12S	974-12S	974-12S	974-12S
21	RELIEF VALVE LOWER PLUNGER	972-34A	972-34A	974-34A	974-34A	974-34A
22	RELIEF VALVE DIAPHRAGM	972-43	972-43	974-43	974-43	974-43
23	RELIEF VALVE UPPER PLUNGER	972-34	972-34	974-34	974-34	974-34
24	O-RING, RELIEF VALVE STEM	WK-111N	WK-111N	121N	121N	121N
25	RELIEF VALVE STEM ASSY.	972-50S	972-50S	974-50S	974-50S	974-50S
26	RELIEF VALVE COVER BOLT	554-11A	554-11A	554-11A	554-11A	554-11A
	RV. & CHECK SEAT TOOL	972-SEATTOOL		974-SEATTOOL		
27	RELIEF VALVE COVER	972-3A-010F	972-3A-010F	974-3A-010F	974-3A-010F	974-3A-010F

*INTEGRAL SUPERVISORY SWITCH OPTION AVAILABLE

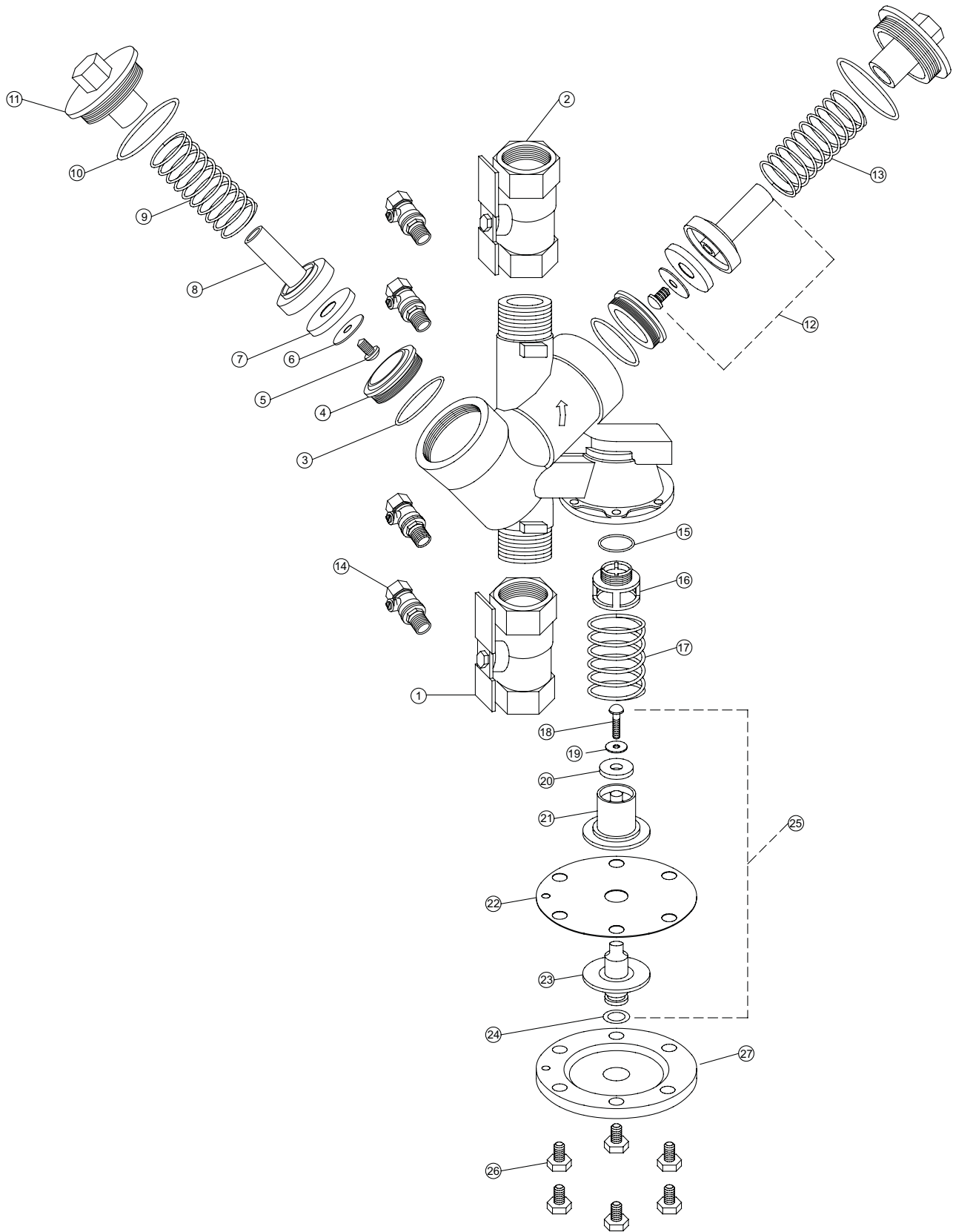
REPAIR KITS

RK34-975XL REPAIR KIT COMPLETE MODEL 975XL, 3/4", & 1" Only			RK114-975XL REPAIR KIT COMPLETE MODEL 975XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-12S	2	SEAL RING	954-12S	2	SEAL RING
972-12S	1	RELIEF VALVE SEAL RING	974-12S	1	RELIEF VALVE SEAL RING
972-43	1	DIAPHRAGM	974-43	1	DIAPHRAGM
136N	2	O-RING, COVER	153N	2	O-RING, COVER
WK-111N	1	O-RING, RELIEF VALVE STEM	121N	1	O-RING, RELIEF VALVE STEM
972-33	1	NO. 1 CHECK SPRING	5754-33	1	NO. 1 CHECK SPRING
952-33	1	NO.2 CHECK SPRING	554-33	1	NO. 2 CHECK SPRING
972A-33	1	RELIEF VALVE SPRING	974A-33	1	RELIEF VALVE SPRING

RK34-975XLR RUBBER REPAIR KIT MODEL 975XL, 3/4", & 1" Only			RK114-975XLR RUBBER REPAIR KIT MODEL 975XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-12S	2	SEAL RING	954-12S	2	SEAL RING
972-12S	1	RELIEF VALVE SEAL RING	974-12S	1	RELIEF VALVE SEAL RING
972-43	1	DIAPHRAGM	974-43	1	DIAPHRAGM
136N	2	O-RING, COVER	153N	2	O-RING, COVER
WK-111N	1	O-RING, RELIEF VALVE STEM	121N	1	O-RING, RELIEF VALVE STEM



WILKINS SERIES 975XL R.P. REPLACEMENT PARTS LIST



RK34-975XLSK SEAT REPAIR KIT MODEL 975XL, 3/4" & 1" Only			RK114-975XLSK SEAT REPAIR KIT MODEL 975XL, 1-1/4", 1-1/2", 2" Only		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
952-18S	2	CHK SEAT, 3/4" XL	954-18S	2	CHK SEAT, 1-1/4" XL
WK-125N	2	O-RING	136N	2	O-RING
972-18	1	CU SEAT, 3/4" XL	974-18	1	CU SEAT, 1-1/4" 975XL
WK-019N	1	O-RING, COVER	029N	1	O-RING, COVER



MODEL 975



a **ZURN** company

Reduced Pressure Principle Backflow Preventers 2-1/2" to 10"

ITEM NO.	DESCRIPTION	2-1/2"	3"	4"	6"	8"	10"
1	GATE VALVE, TAPPED	212-48	3-48	4-48	6-48	8-48	10-48
	GATE VALVE, TAPPED, OS&Y	212-48OSY	3-48OSY	4-48OSY	6-48OSY	8-48OSY	10-48OSY
2	BOLT, FLANGE	558-11D	558-11D	559-11	5510-11	9511-11B	9512-11B
3	NUT, FLANGE	558-9	558-9	558-9	5510-9	5510-9	9512-9A
4	GASKET, FLANGE	557-13	558-13	559-13	5510-13	9511-13	9512-13
5	STUD, FLANGE	959-11A	959-11A	959-11A	9511-11A	9511-11A	N/A
6	O-RING, SMALL	022N	022N	022N	022N	022N	022N
7	O-RING, LARGE	033N	033N	033N	033N	036N	036N
8	RELIEF VALVE	977-CU	977-CU	977-CU	977-CU	9711-CU	9711-CU
9	BOLT, RELIEF VALVE	554-11A	554-11A	554-11A	554-11A	554-11A	554-11A
10	COVER	957-3C	957-3C	959-3C	9510-3C	9511-3C	9512-3C
11	O-RING, COVER	248N	248N	264N	374N	452N	457N
12	BOLT, COVER	957-11	957-11	959-11	9510-11	9511-11	9512-11
13	NIPPLE, SHORT	N/A	N/A	N/A	102-21B	102-21B	102-21B
14	BALL VALVE	12-850	12-850	12-850	34-850XL	34-850XL	34-850XL
15	O-RING, SEAT	238N	238N	252N	366N	374N	379N
16	SEAT	957-18-010F	957-18-010F	959-18-010F	9510-18-010F	9511-18-010F	9512-18-010F
17	BOLT, SEAT	5752-11	5752-11	959-11B	959-11B	959-11B	959-11B
18	LOWER STEM GUIDE	N/A	N/A	959-2	957-2	9511-2	9512-2
19	NUT, STEM	957-9	957-9	959-9	9511-9	9511-9	9512-9
20	RETAINING PLATE	957-31-010F	957-31-010F	959-14-010F	9510-14-010F	9511-14-010F	9512-14-010F
21	SEAL RING	558-12	558-12	959-12	9510-12	9511-12	9512-12
22	NO.1 POPPET ASSEMBLY	977-300	977-300	979-300	9710-300	9711-300	9712-300
23	NO.2 POPPET ASSEMBLY	957-300	957-300	959-300	9510-300	9511-300	9512-300
24	UPPER STEM GUIDE	957-2	957-2	957-2	9510-2	9511-2A	9512-2A
25	NIPPLE, LONG	558-21B	558-21B	558-21B	5510-21B	5510-21B	5510-21B
26	PLUG	558-7	558-7	558-7	5510-7	5510-7	5510-7
27	LIFTING LUG	N/A	N/A	N/A	9510-24	9510-24	N/A
28	BALL VALVE	12-850M	12-850M	12-850M	34-850XL	34-850XL	34-850XL

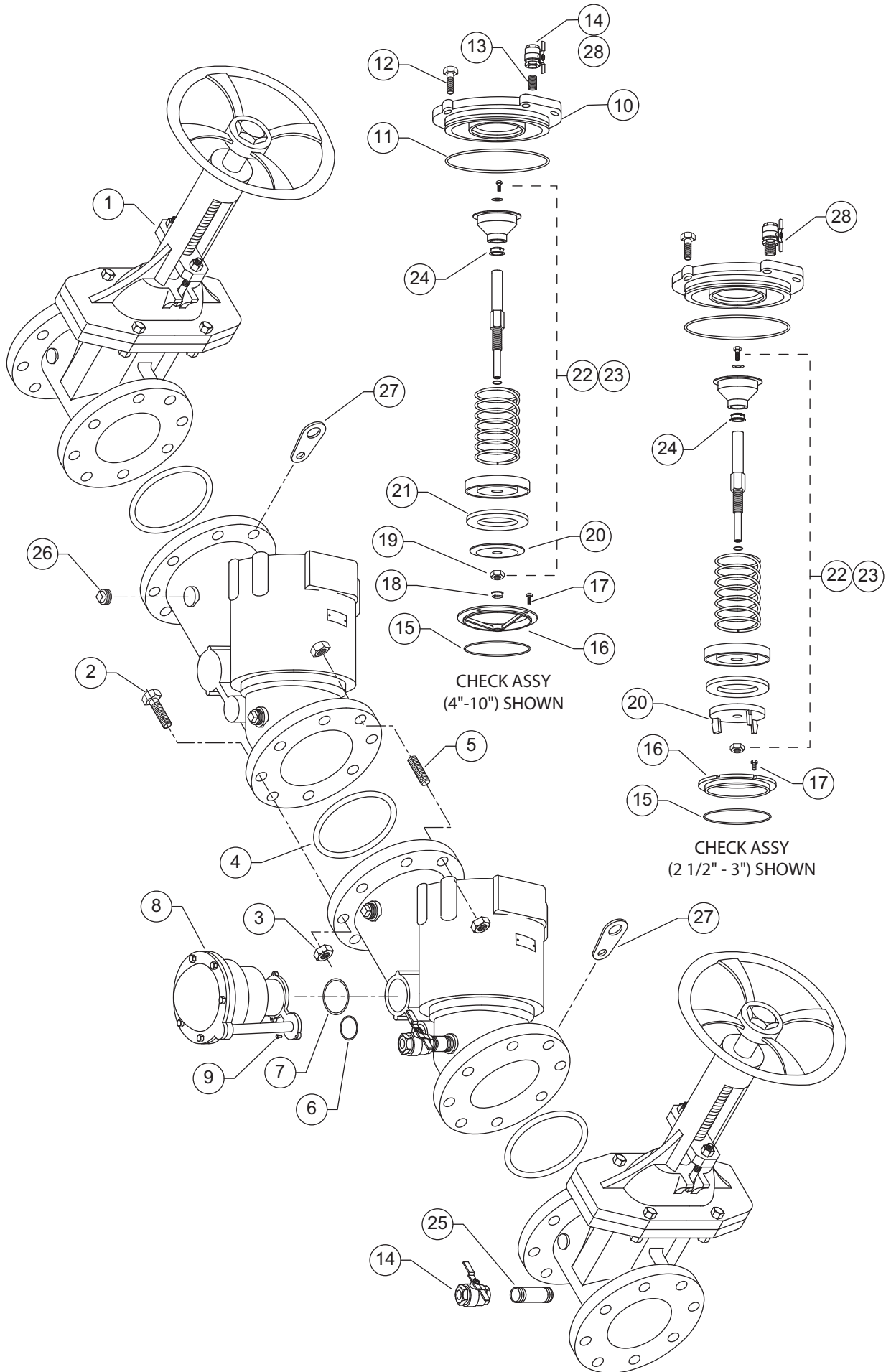
REPAIR KITS

REPAIR KIT MODELS 950/975 2-1/2" & 3"			REPAIR KIT MODELS 950/975, 6"			REPAIR KIT MODELS 950/975, 10"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
558-12	2	SEAL RING	9510-12	2	SEAL RING	9512-12	2	SEAL RING
248N	2	O-RING, COVER	374N	2	O-RING, COVER	457N	2	O-RING, COVER

REPAIR KIT MODEL 950/975, 4"			REPAIR KIT MODEL 950/975 8"		
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
959-12	2	SEAL RING	9511-12	2	SEAL RING
264N	2	O-RING, COVER	452N	2	O-RING, COVER



WILKINS SERIES 975 R.P. REPLACEMENT PARTS LIST





MODEL 975 **WILKINS**

Relief Valve

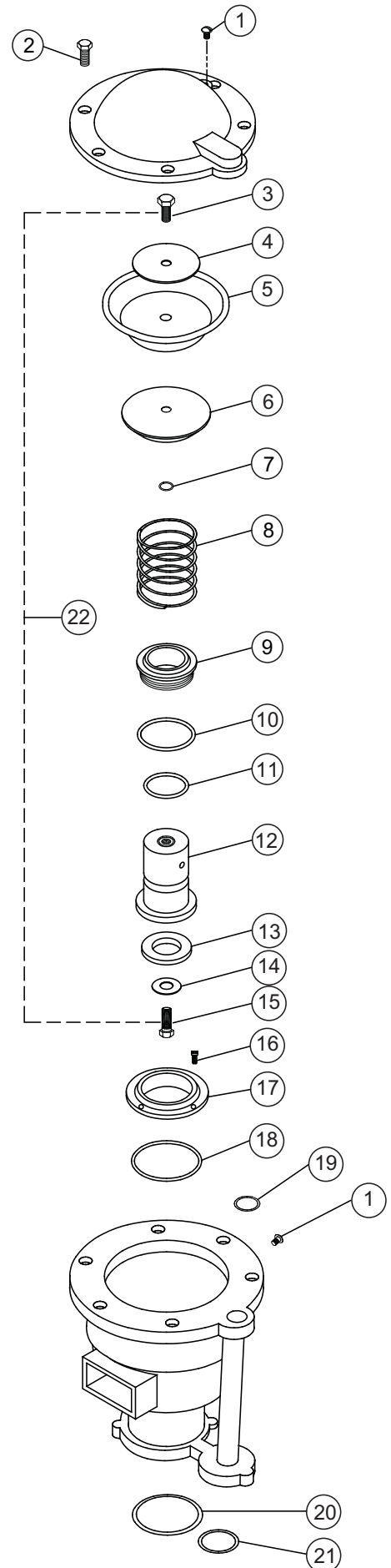
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2-1/2" to 10"

RELIEF VALVE COMPLETE			977-CU	9711-CU
ITEM NO.	DESCRIPTION	QTY.	2-1/2"-6"	8" & 10"
1	BLEED SCREW	2	552-11A	552-11A
2	BOLT, COVER	6	5752-11	5752-11
3	BOLT	1	554-11A	554-11A
4	WASHER, DIAPHRAGM	1	977-80	977-80
5	DIAPHRAGM	1	5758-43	5758-43
6	SPRING RETAINER	1	977A-80-010F	9711A-80-010F
7	O-RING, SPRING RETAINER	1	113N	113N
8	SPRING	1	977A-33	9711-33A
9	STEM GUIDE	1	977-2	9711-2
10	O-RING, STEM GUIDE	1	230N	230N
11	O-RING, STEM	1	220N	327E-60
12	STEM	1	977-5	9711-5
13	SEAL RING	1	5758-12	9711-12
14	SEAL RETAINER	1	977-14	9711-14
15	BOLT, SENSING	1	977-11	977-11
16	BOLT, SEAT	3	5752-11A	N/A
17	SEAT	1	977-18	9711-18
18	O-RING, SEAT	1	031N	036N
19	O-RING, SENSING LINE	1	018N	018N
20	O-RING, LARGE	1	033N	036N
21	O-RING, SMALL	1	022N	022N
22	RELIEF VALVE STEM ASSY.	1	977-50	9711-50

REPAIR KITS				
REPAIR KITS, RUBBER			RK212-975R 2-1/2" - 6"	RK8-975R 8" & 10"
ITEM NO.	DESCRIPTION	QTY.	PART NO.	PART NO.
5	DIAPHRAGM	1	5758-43	5758-43
7	O-RING, SPRING RETAINER	1	113N	113N
10	O-RING, STEM GUIDE	1	230N	230N
11	O-RING, STEM	1	220N	327E-60
13	SEAL RING	1	5758-12	9711-12
19	O-RING, SENSING LINE	1	018N	018N
20	O-RING, LARGE	1	033N	036N
21	O-RING, SMALL	1	022N	022N

REPAIR KITS, COMPLETE			RK212-975 2-1/2" - 6"	RK8-975 8" & 10"
ITEM NO.	DESCRIPTION	QTY.	PART NO.	PART NO.
N/A	REPAIR KIT, RUBBER	1	RK212-975R	RK8-975R
8	SPRING	1	977A-33	9711-33A





SPECIFICATION SUBMITTAL SHEET



FEATURES

Maximum working pressure 200 psi
Working temperature range 35° F to 150° F

- Gauge body of engineered thermoplastic material
- Gauge dial: 4 1/2" diameter, 0-15 P.S.I. scale (75 divisions)
- 200 psi line pressure gauge dial
- Accuracy: +/- 0.2 P.S.I.D. (descending)
- Valves: soft-seated needle with replaceable seats (5 total)
- Hoses & end fittings: (3) color coded 5' lengths and (1) 4' long clear bleed tube, SAE 45° flare fittings and 90 micron cleanable porous metal (brass) filters
- 5 year warranty against defects in materials and manufacturing
- Durable carrying case with external fitting compartments

TESTING

The TG-5 is capable of testing the following backflow prevention devices:

- Reduced Pressure Principle Assemblies
- Double Check Valve Assemblies
- Pressure Vacuum Breaker Assemblies

ACCESSORIES

- QT-SET Quick Test Fitting Set

SPECIFICATION

The Backflow Prevention Test Kit shall be a 5 valve pressure differential type. The test kit shall comprise of a 4 1/2" dial scale in a thermoplastic housing with a 0 to 15 P.S.I. scale (0.2 P.S.I.D. increments) and an accuracy of +/- 0.2 P.S.I.D. (descending). The test kit shall incorporate 5 color coded resilient seated needle valves with SAE flare fittings and 3 color coded pressure hoses (5 ft lengths). The test kit shall include a hard plastic case, calibration certificate and a laminated instruction sheet. The Backflow Prevention Test Kit shall be a WILKINS Model TG-5.

APPLICATION

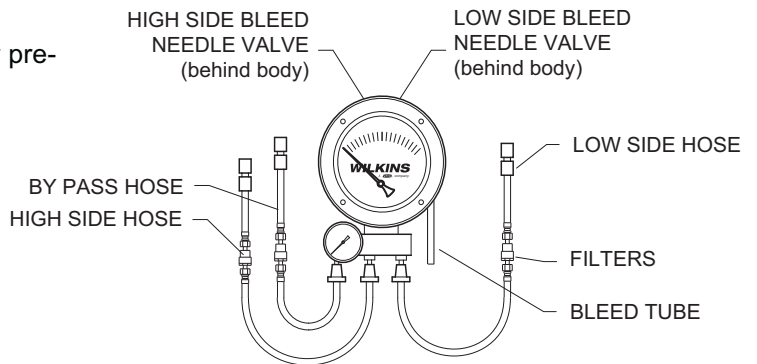
The WILKINS Model TG-5 Backflow Prevention Assembly Test Kit is designed for testing all brands of Pressure Type Vacuum Breakers, Double Check Valve, and Reduced Pressure Principle Backflow Prevention Assemblies. The TG-5 is capable of performing all known testing procedures including those recommended by ASSE, AWWA and FCCCHR at USC.

MATERIALS

Case material	Molded Plastic
Gauge body	Thermoplastic
Fittings	Brass (NPT & SAE)
Internals	EP Elastomers
	316 Stainless Steel
	Brass
Hose	Buna Nitrile liner and jacket

CALIBRATION

The WILKINS Model TG-5 Backflow Prevention Assembly Test Kit is subjected to calibration testing conforming to standards traceable to the National Bureau of Standards. It is recommended that gauges be rechecked for calibration annually. WILKINS is not liable for shifts in calibration other than caused by defects.





For Backflow Testing Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series TK-99E Backflow Preventer Test Kit

Model TK-99E Backflow Preventer Test Kit is a compact portable device made for testing pressure vacuum breakers, anti-spill vacuum breakers, reduced pressure zone assemblies, and double check valve assemblies. This Backflow Preventer Test Kit has been designed for simplified operation and rugged reliability in a compact package. The TK-99E consists of a gauge with color-coded valves and hoses, hose adapters, shock cord for easy mounting, supply pressure gauge, and a carrying case. Accuracy is +/-1% of full scale.

Features

- 4½" (114mm) diameter face gauge with dual scale (0-15psi/0-1bar)
- Pressure gauge measuring 0 - 200psi
- Three lightweight needle valves encased in chemical resistant bodies
- Adapters:
 - three ⅜" x ¼" bushings
 - three ½" x ¼" bushings
 - three ¾" x ¼" bushings
 - three ¼" flared fittings
- Hoses: three 6ft (1828mm) hoses with female-threaded swivel couplings
- 16" (41mm) securing strap
- Shock cord
- Replaceable hose filters and valve stem seals
- Durable carrying case



G-TB

Pressure-Temperature

Maximum Working Pressure: 200psi (13.7 bar)

Maximum Working Temperature: 200°F (93°C)

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Backflow Prevention Products

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-TK-99E 0643



For Backflow Testing Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series TK-9A Backflow Preventer Test Kit

Model TK-9A Backflow Preventer Test Kit is a compact portable device made for testing all reduced pressure zone backflow prevention assemblies and double check valve assemblies. The TK-9A is easily connected to any RPZ device enabling accurate testing of 'zone' differential pressure, relief valve opening differential, fouled check valves or similar problems that visual inspections cannot locate. Accuracy is +/- 2%. The unit includes a carrying case for easy handling and accessibility.



G-TB

Features

- 4 1/2" (114mm) diameter face gauge with dual scale (0 - 15psi/0-1 bar)
- Test valves: (2) ball valves
(1) needle valve
- Adapters: (3) 1/4" threaded coupling adapters
(3) 1/2" x 1/4" bushings
(3) 3/4" x 1/4" bushings
- Hoses: (3) 3' (914mm) hoses with female-threaded swivel couplings
- 16" (406mm) securing strap
- Moisture resistant operation manual
- Durable carrying case

Pressure-Temperature

Maximum Working Pressure: 175psi (12.1 bar)

Maximum Working Temperature: 210°F (98°C)

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



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Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-TK-9A 0643



For Backflow Testing Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series TK-7 Backflow Preventer Test Kit

Working Height of Tube: 44" (1118mm)

Model TK-7 Backflow Preventer Test Kit is made to test the individual check modules of the Watts Series 7, 709, and 007 residential dual check and double check valve assemblies. The test kit is a water column sight tube that contains three segments of durable 7/16" (11mm) shatterproof tubing, two brass adaptors used to assemble the three tubing segments, and test hardware to enable testing of Series 7, 709, and 007 check modules. Model TK-7 also included a rugged simulated leather carrying case for compactness and ease of handling.



TK-7

Features

- 7/16" (11mm) shatterproof tubing
- Two brass adaptors
- Three segments of plastic tubing
- Test hardware
- Moisture resistant instruction panel
- Durable simulated leather case

Materials

Tubes: Plastic

Adapters: Brass

Case: Simulated leather

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Backflow Prevention Products

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-TK-7 0646

Mid-West[®] Instrument

*Ultimate Backflow Test Kits
Over 30 Years of Input from
Backflow Technicians*



Backflow Prevention Assembly Test Kit

"MODEL 845-5"

The 845 is in the list of Acceptable gages from
Both FCCC & HR-USC and CA-NV AWWA

Functions and Applications:

Backflow Test Kits provide the capability for testing all brands of
**Reduced Pressure Principle, Pressure Vacuum Breaker,
Spill Resistant Vacuum Breaker and Double Check Valve**
backflow prevention assemblies.

ΔP RANGE: 0-15 PSID / 0-100 KPA



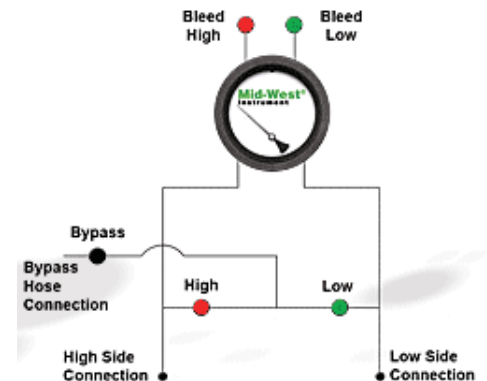
New Manifold Design

Product Features/Benefits

- Over 30 Years of Input from Backflow Technicians
- (5) Valve Test Kit
- Specially Designed for Testing Backflow Prevention Assemblies
- Soft-Seated Brass Needle Valves (with replaceable valve seats)
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced
- Durable Molded Plastic Carrying Case
- Improved Case with Storage Compartments for Fittings & Tools.
- Test procedures are laminated in clear plastic
- 5 Year Warranty

Specifications

- Gauge Type Diaphragm Differential Pressure
- Dial Size & Range (4 1/2") 0-15 PSID / 0-100 KPA
- Differential Pressure Accuracy $\pm .2$ P.S.I.D. (Descending)
- Working Pressure: 200 PSIG
- Body Material: Glass Reinforced Engineering Thermoplastic.
- Wetted Internals: EP Elastomers, Brass and 316 S.S. Metal Parts
- Line Pressure Gauge: 1 1/2" 0-200 PSIG
- Hoses & End Fittings: Buna-N jacket and liner. Schrader 1/4" brass coupler -
- Hose Length: Three (3) each / 5' long (color-coded).
- Bleed Tube, One each / 4' long clear bleed tube.
- Adaptor Fittings: (3) sets of brass fittings provided for hookup to all standard size test cocks.
- Gauge Weight: 3.6lbs / 1.6kg
- Case: Durable Molded Plastic
- Size: 18 1/2" L x 9"W x 9 3/4" H
- Temperature Limitations: Maximum 150°F/65°C.
FREEZING TEMPERATURES MUST BE AVOIDED



**Capable of performing all known test procedures including those recommended by
ASSE, AWWA, CSA, FCCC and HR-USC and NEWWA.**



Professional Test Cock Cleaning Tool



Part No. 110694
Test Cock Cleaning Tool

Install the Test Clean into the plugged test cock
Open test cock and depress plunger to clear the obstruction
Back out plunger and flush debris into a bucket or floor drain
Remove the Test Clean and proceed with testing

90° Swivel Quick Connect Test Cock Adapters



Part No. 110705
(90° Swivel Fittings)

Rotate 360° after installation • Ideal for tight spaces
(Set of 3)

Includes:

- (3) 1/4" NPT Quick Connect x 1/4" Flare
- 90° Swivel Fittings
- Spare O'rings

90° Swivel Quick Connect Test Cock Adapter Kit



Part No. 110706
(Set of 9)

Set includes all fittings required to test any size Backflow device. 90° Elbow Swivel Fittings - Rotate 360° after installation.

Ideal for tight spaces.

Includes:

- (3) pieces 90° Swivel 1/4" NPT x 1/4" Flare Quick Connect Fittings
- (3) pieces 1/2" NPT x 1/4" FNPT Quick Connect Fittings
- (3) pieces 3/4" NPT x 1/4" FNPT Quick Connect Fittings

Includes: 3 spare O-rings per size Packaged in a convenient plastic storage tube.

Quick Connect Kit for Male Flare Test Cocks



Part No. 111887

Designed for hand tight connection of Differential Pressure Test Gauges to Backflow Prevention Assemblies.

Ideal for tight spaces

1/4" Female Flare Quick Connect x 1/4" Flare
(Set of 3)

Quick Connect Test Cock Adapter Kit



Part No. 110617

Designed for hand tight connection of Differential Pressure Test Gauges to Backflow Prevention Assemblies.
Set includes all fittings required to test any size Backflow device

Includes:

- (3) 1/4" NPT X 1/4" Flare
 - (3) 1/2" NPT X 1/4" FNPT
 - (3) 3/4" NPT X 1/4" FNPT
- 3 spare O-rings per size

Quick Connect Test Cock Adapters



Designed for hand tight connection of Differential Pressure Test Gauges to Backflow Prevention Assemblies.

No Wrenches or Teflon Tape Required.

Part No. 110631

1/4" NPT Quick Connect x 1/4" Flare
3 Spare O-Rings

Part No. 110703

1/2" NPT Quick Connect x 1/4" Flare
3 Spare O-Rings

Part No. 110704

3/4" NPT Quick Connect x 1/4" Flare
3 Spare O-Rings

Bleed-Off Valve Assembly



Part No. 830-0001

(For USC Test Procedures)

Bleed-Off Valve Assembly
Soft Seat Needle Valve

Carrying Case



Vertical Tube Kit



Part No. 830-0003

(For USC Test Procedures)

15" x 1/2" Dia. Tube/Test Cock Adapter Assy.*
15" x 1/2" Dia. Extension Tube Assy.*
15" Is Assembled Length.

Part No. 110405

Test Kit Case with Foam
(Accessories not included)

SPECIFICATION SUBMITTAL SHEET



FEATURES

Set includes fittings sizes: 1/4", 1/2" and 3/4"

Tear Resistant O-rings
 SAE 45° Flare Fittings - SAE J513
 Fittings knurled for easy gripping
 Sold in convenient carrying case
 Includes 3 spare O-rings per size
 Case dimensions: 8 1/2"x5 1/2"x2 5/8"
 Weight: 2 lbs.

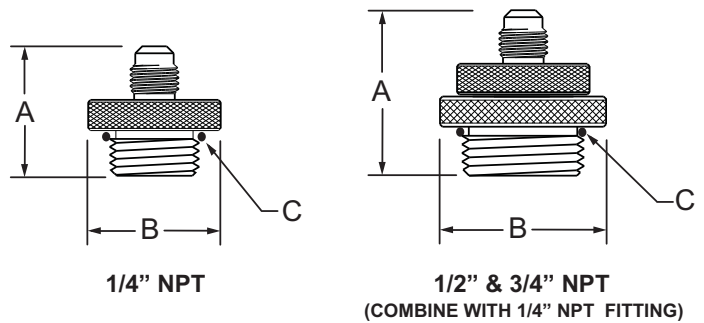
APPLICATION

Designed for use on Backflow Prevention Assemblies to facilitate the connection of a Differential Pressure Test Gauge. Quick Test Fittings Set, with their integral o-ring and hand-tight installation, eliminate the need for wrenches and Teflon tape. This will result in a time and material savings to the tester and set includes all fittings needed to test any size Backflow device.

MATERIALS

Body (fittings)
 O-rings
 Carrying Case

Brass
 Buna Nitrile
 High Density Polyethylene

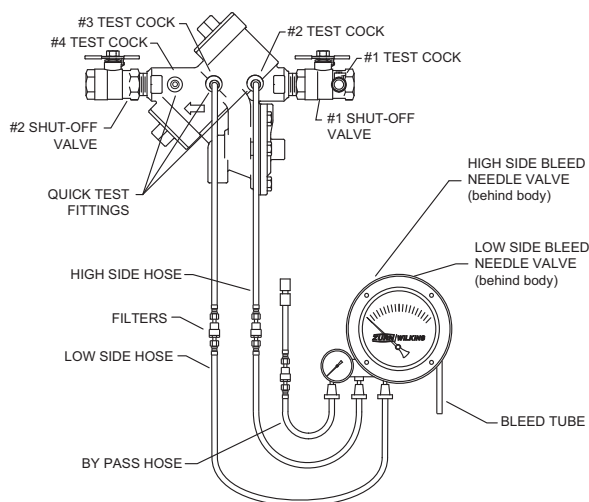


DIMENSIONS & WEIGHTS (do not include pkg.)

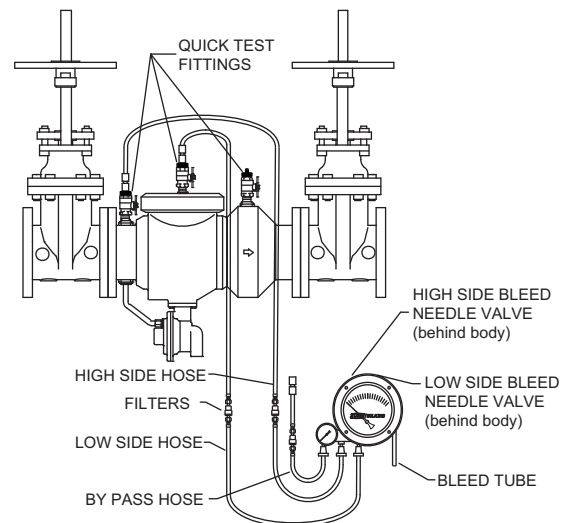
QTY. PER CASE	FITTING SIZES	FOR VALVE SIZE	DIMENSIONS (approximate)				
			A		B		C (O-ring)
			in.	mm	in.	mm	
3	1/4" NPT X 1/4" Flare	1/4"-2"	1 3/64	27	7/8	22	112N
3	1/2" NPT X 1/4" FNPT	2 1/2"-4"	1 13/32	36	1 3/16	30	117N
3	3/4" NPT X 1/4" FNPT	6"-12"	1 13/32	36	1 3/8	35	120N

TYPICAL INSTALLATIONS

MODEL 3/4" 975XL SHOWN



MODEL 4\"/>





40-200 SERIES BLEED VALVE/SIGHT TUBE

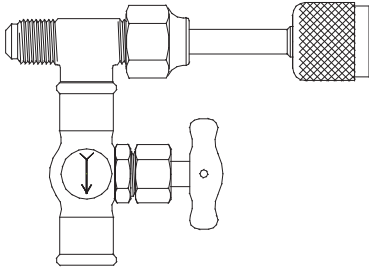
Job Name:	Contractor:
Job Location:	P.O. Number:
Engineer:	Representative:
Tag:	Wholesale Distributor:

DESCRIPTION

The Apollo® Bleed Valve is a test valve designed to provide accurate readings in field test of double check valve backflow preventers.

FEATURES

- Quick connections
- Quick bleed off of testing lines
- Useful in tight locations
- Recommended in USC testing procedures



MATERIAL SPECIFICATIONS

Part Name	Material
Valve	Brass
Tee Fitting	Brass
Connecter	Brass

ORDERING INFORMATION

4 0 - 2 0 0 - B V

TYPICAL INSTALLATION

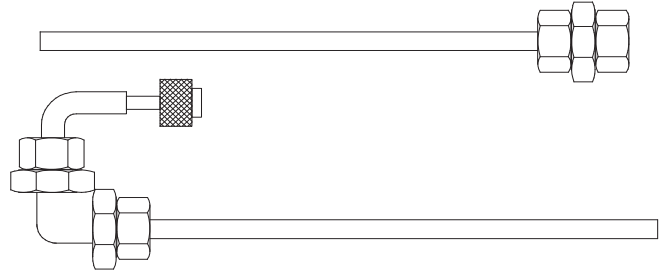


DESCRIPTION

The Apollo® Sight Tube Kit is designed to aid in visual inspection during testing of double check valve backflow preventers.

FEATURES

- Quick connections with 90° elbow
- Extension to check valve body
- Used in USC testing procedures



MATERIAL SPECIFICATIONS

Part Name	Material
90° Test Cock Adapter	Brass
Tube	Plastic
90° Elbow	Plastic

ORDERING INFORMATION

4 0 - 2 0 0 - S T

TYPICAL INSTALLATION



This specification is provided for reference only. Conbraco reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Conbraco products previously or subsequently sold.



AGD AND AGD4A SERIES AIR GAP DRAINS

Job Name:	Contractor:
Job Location:	P.O. Number:
Engineer:	Representative:
Tag:	Wholesale Distributor:

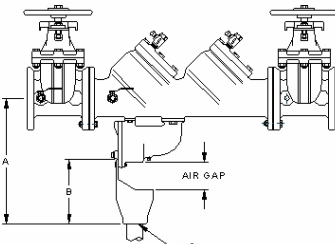
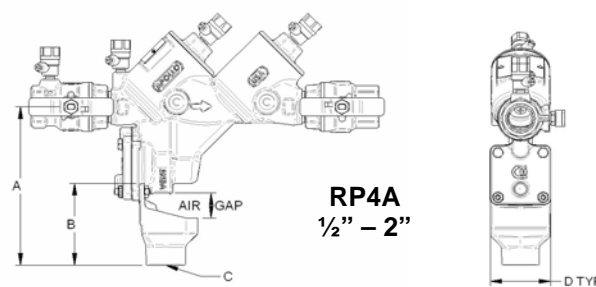
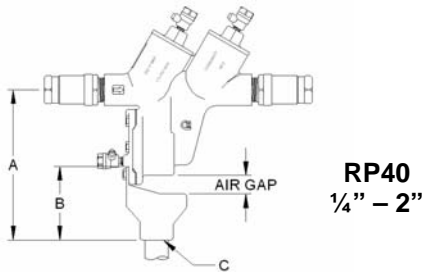
DESCRIPTION

The Apollo Air Gap Drain (AGD) is designed to funnel minor discharges from a Reduced Pressure Backflow Preventer's relief valve due to line pressure fluctuations and/or minor check valve fouling, into the drainage system. Drain piping is easily attached to the AGD's threaded bottom outlet. The AGD4A series ABS plastic AGDs have the additional option of using the outlet OD to glue on a coupling using the appropriate cement or the use of a flexible pipe coupling.



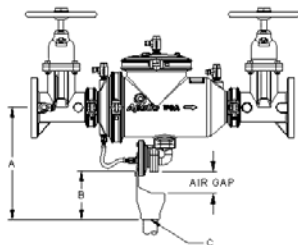
Note: The AGD is **NOT** designed to collect the full discharge capacity of the relief valve. Please refer to Apollo literature for RP Relief Valve full discharge rates

The appropriate AGD should be selected for Apollo's Reduced Pressure RP4A, RP40 and RP4D Series backflow preventers from the table below.



RP4A Series	AGD Model No.	Order Code	A	B	C	OD of C	D	Wt. Each
1/2"	AGD4A1	AGD4A1	6 1/2	3 3/8	1" FNPT	1 1/4" Pipe	2 5/8	0.1
3/4"	AGD4A1	AGD4A1	6 1/2	3 3/8	1" FNPT	1 1/4" Pipe	2 5/8	0.1
1"	AGD4A1	AGD4A1	6 5/8	3 3/8	1" FNPT	1 1/4" Pipe	2 5/8	0.1
1 1/4" & 1 1/2"	AGD4A112	AGD4A112	8 1/2	4 1/8	1 1/2" FNPT	2" Pipe	3 1/2	0.2
2"	AGD4A2	AGD4A2	10	5 3/8	2" FNPT	2 1/2" Pipe	4 1/4	0.35

RP40 Series	AGD Model No.	Order Code	A	B	C	OD of C	D	Wt. Each
1/4", 3/8", 1/2"	AGD4012	AGD4012	6 1/2	3 3/8	1" FNPT	1 1/4" Pipe	2 5/8	0.1
3/4" & 1"	AGD401	AGD401	8 1/4	4 1/8	1 1/2" FNPT	2" Pipe	3 1/2	0.2
1 1/4", 1 1/2", & 2"	AGD2	40-200-X1	11 1/4	5 1/8	1" FNPT	N/A	5 1/4	3.4
2 1/2" & 3"	AGD3	40-200-X2	19	9 7/8	2" FNPT	N/A	7	11.0
4"	AGD3	40-200-X2	20	9 7/8	2" FNPT	N/A	7	11.0
6"	AGD3	40-200-X2	21	9 7/8	2" FNPT	N/A	7	11.0
8"	AGD4	40-200-X3	22 11/16	12 11/16	3" FNPT	N/A	10	12.45
10"	AGD4	40-200-X3	25 11/16	12 11/16	3" FNPT	N/A	10	12.45



RP4D Series	AGD Model No.	Order Code	A	B	C	N/A	D	Wt. Each
2 1/2" - 4"	AGD2	40-200-X1	14 3/8	5 1/8	1" FNPT	N/A	5 1/4	3.4
6"	AGD2	40-200-X1	15 7/8	5 1/8	1" FNPT	N/A	5 1/4	3.4
8" & 10"	AGD3	40-200-X2	23 3/4	9 4/5	2" FNPT	N/A	7	11.0



Air Gaps, Elbows and Test Cocks

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

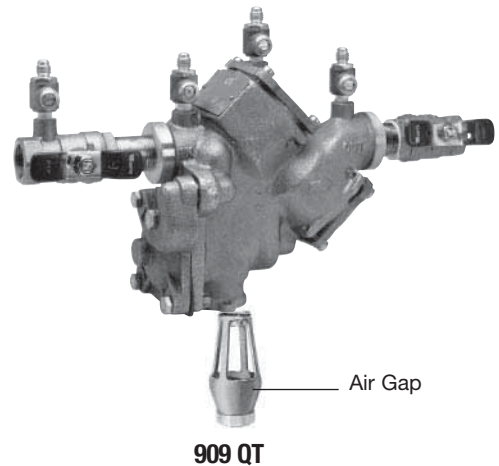
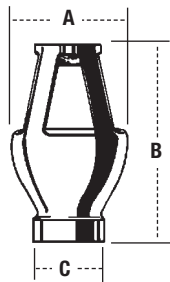
Air Gaps, Elbows and Test Cocks

for Reduced Pressure Zone Assemblies

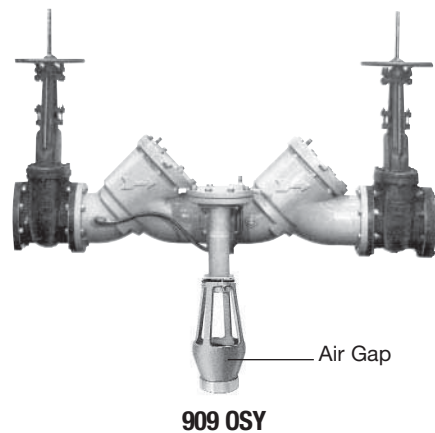
Air Gaps

An air gap provides the unobstructed, physical separation between the discharge end of a potable water supply line and an open receiving vessel.

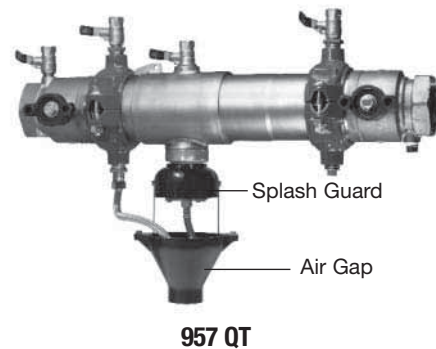
The installation of an air gap and drain line are recommended.



909 QT



909 OSY



957 QT

MODEL	ORDERING CODE	SERIES/SIZES	DIMENSIONS			WEIGHT	
			A in. mm	B in. mm	C (NPT) in. mm	lbs	kgs
909AGA	0881399	1/2" - 1/2" 009 3/4" 009M2/M3 1/2" - 1" 995	2 3/8 60	3 3/8 79	1/2 13	.63	.28
909AGC	0881376	3/4" - 1" 009/909 1" - 1 1/2" 009M2 1 1/4" - 2" 995	3 1/4 83	4 7/8 124	1 25	1.50	.68
909AGF	0881378	1 1/4" - 3" 009/909 1 1/4" - 2" 009M1 2" 009M2	4 3/8 111	6 3/4 171	2 51	3.25	1.47
909AGK	0881385	4" - 6" 909 8" - 10" 909M1	6 3/8 162	9 3/8 244	3 76	6.25	2.83
909AGM	0881387	8" - 10" 909	7 3/8 187	11 1/4 286	4 102	15.50	7.03
919 AGC	0881576	3/4"-1" 919	2 3/8 60	3 1/8 79	1/2 13	0.63	0.28
919 AGF	0881577	1 1/4"-2" 919	4 3/8 111	8 1/2 216	2 51	3.5	1.6
957AG	0111764	2 1/2" - 10" 957	7 1/2 190	10 3/16 258	2 51	1.50	.68
957AG	0111815	2 1/2" - 10" 957	- -	- -	- -	- -	- -
Splash Guard							
994AGK-P	0881397	2 1/2" - 10" 994	8 203	11 1/4 286	2 51	1.50	0.68
995-AG	0439190	3" - 6" 995	5 127	8 203	2 51	-	-

IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS

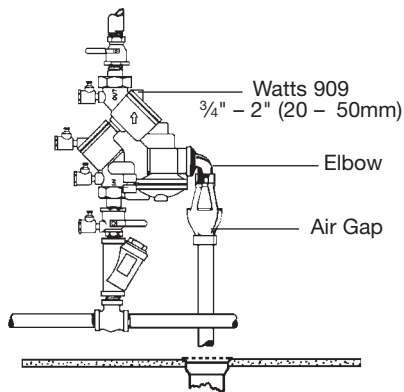


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Vent Elbows

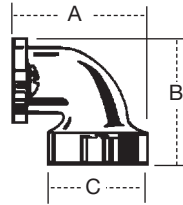
Used with Watts air gaps for vertical installation of Reduced Pressure Zone Assemblies.



Vertical (Up) Installation of Backflow Preventer

IMPORTANT:

Inquire with governing authorities for local installation requirements.



IRON BODY NO.	ORDERING CODE	SERIES/SIZES	DIMENSIONS			WEIGHT	
			A in. mm	B in. mm	C in. mm	lbs	kgs
909EL-A	0881370	1/4"-1/2" 009 3/4" 009M2/M3 1/2"-1" 995	—	—	—	—	—
909EL-C	0881380	3/4"-1" 009/909 1"-1 1/2" 009M2 1 1/4"-2" 995	2 3/8 60	2 3/8 60	—	—	.38 .17
*909EL-F	0881382	1 1/4"-2" 009M1 1 1/4"-2" 009/909 2" 009M2	3 5/8 92	3 5/8 92	—	—	2 .91
*909EL-H (vertical)	0881384	2 1/2"-3" 009/909	—	—	2 51	—	—
919 EL-C	0881578	3/4"-1" 919	2 1/4 57	2 5/8 67	—	—	0.63 0.28
919 EL-F	0881579	1 1/4"-2" 919	5 1/4 133	4 102	—	—	2 0.9
994EL-F	0881396	2 1/2"-10" 994	4 7/8 124	9 229	2 51	4	1.8

*Epoxy coated

Test Cocks

TC

For use with backflow preventers, isolation valve for gauges, isolation valves for small equipment lines.

- Full port ball valve design
- Screwdriver slot to open and close
- Available 1/8" M x 1/4" F (0006630) or 1/4" M x 1/4" F (0006635)



SAE-TC

- Full port ball valve design
- Screwdriver slot operation
- Available 1/8" M x SAE (0006904)

SAE-TC Adapter

- 1/4" female SAE x 7/16" FPT
- Adapts to SAE-TC for use with pressure gauge and/or site tube
- SAE-TC Adapter (0006903)



SilverEagle TC

- 1/2" TC for 2 1/2" - 4" (65 - 100mm) series 757 and 957 (0007000)
- 3/4" TC for 6" - 10" (150 - 250mm) series 757 and 957 (0007001)
- Full port ball valve design



No. 3 TC with O-Ring

- for 2 1/2" - 4" (65 - 100mm) series 757 and 957 (0007002)
- for 6" - 10" (150 - 250mm) series 757 and 957 (0007003)

Cap & Tether

Plastic Cap & Tether

(four required per backflow preventer)

- Fits 1/4" Female test cocks
- Plastic dust cap and rubber tether
- RK-TC 1/8" (0888846)



Brass Cap & Plastic Tether

(four required per backflow preventer)

- Fits 1/8" M x SAE test cocks
- Brass dust cap with O-ring seal and rubber tether
- RK-SAE-TC (0888845)



SAE-TC Brass Cap

- Protects SAE-TC from dirt and debris (0006902)



Backflow Prevention Products

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.com

SPECIFICATION SUBMITTAL SHEET



AG-4 thru AG-8



AG-9 & AG-10



AG-11 & AG-12

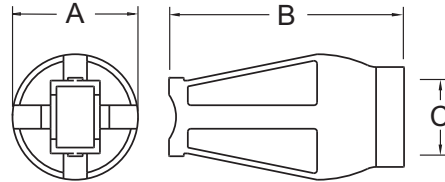
SIZES:

- 1/4" - 1/2" 3/4" - 1" 1-1/4" - 2"
- 2 1/2" - 6" 8" - 10"

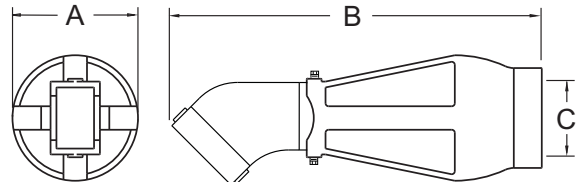
- MODEL:** 375 475 975XL

DIMENSIONS & WEIGHTS (do not include pkg.)

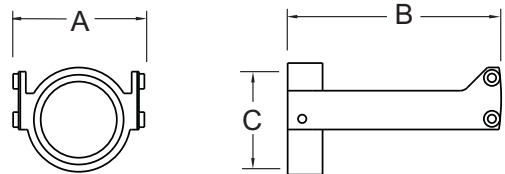
MODEL	DIMENSIONS (approximate)						C OUTLETPipe SIZE	WEIGHT	
	SIZES	FOR MODEL	A		B			lbs.	kg
			in.	mm	in.	mm			
AG-8	1/4" - 1/2"	975XL	2 1/2	64	3 1/2	89	1" NPT	2	0.9
AG-4	3/4"-1"	975XL	3 1/4	83	5	127	1" NPT	2	0.9
AG-5	1 1/4" - 2"	975XL	4 1/2	114	8	203	2" NPT	3	1.4
AG-6	2 1/2" - 3"	475V	5 3/8	137	10	254	3" NPT	5	2.3
AG-6	2 1/2" - 6"	375, 475	5 3/8	137	10	254	3" NPT	5	2.3
AG-7	8" - 10"	375, 475	7	178	11	279	4" NPT	8	3.6
AG-9	4" - 6"	475V	5 3/8	137	14 1/2	368	3" NPT	9	4
AG-10	8" - 10"	475V	7	178	16 1/2	413	4" NPT	11	5
AG-11	1/2" - 1"	375	3 3/4	95	5 1/2	140	2" IPS Slip	1	0.5
AG-11V	1/2" - 1"	375 VERT.	-	-	-	-	2" IPS Slip	1	0.5
AG-12	1 1/4" - 2"	375	6 1/2	165	8	200	3" IPS Slip	1	0.5



AG-4 THRU AG-8



AG-9 & AG-10



AG-11 & AG-12

APPLICATION

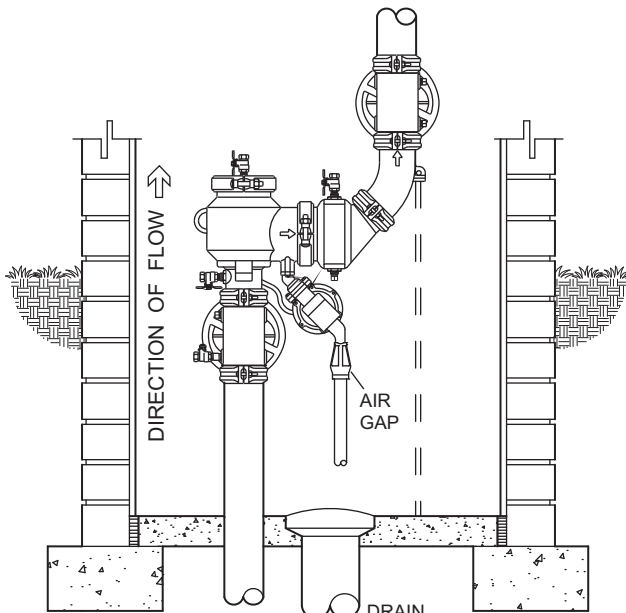
Designed for use with 1/4" thru 10" Model 975XL, 375, and 475 Reduced Pressure Principle Backflow Preventers on horizontal or vertical installations. Device is necessary when installing a drain line and can be mounted to the body. (Drain line can be any standard piping material.)

APPROVALS

ANSI/ASME A 112.1.2

MATERIALS

- Body Cast grey iron, epoxy painted
- Body (AG-11, 12) Nylon
- Elbow Cast grey iron, epoxy painted
- Bolts Steel, zinc plated



INDOOR INSTALLATION

TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code.

Not All Backflow Preventers Are Designed Alike.

Some manufacturer's designs do not lend themselves to in-line repair. They encourage you to replace their products rather than repair, adding to the stability of *their* business model, but not yours!

Wilkins backflow products are designed to provide the lowest life-cycle costs to our customers by offering:

- Easy to perform maintenance and repair resulting in the lowest labor costs
- Low-cost repair kits

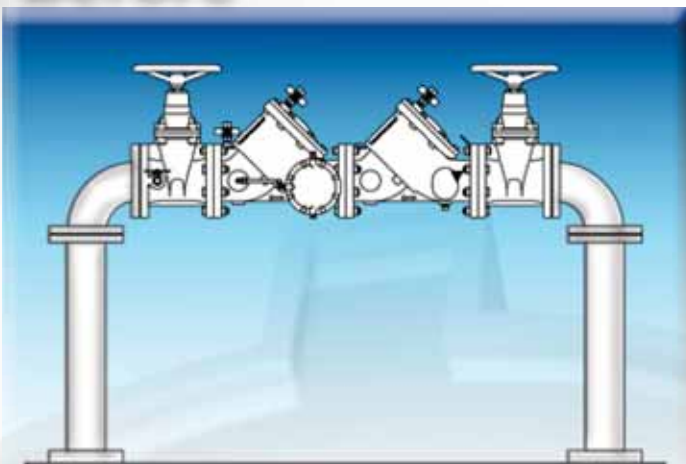


We accomplish this by building simple products designed for in-line repair, requiring fewer parts and less labor than our competition.

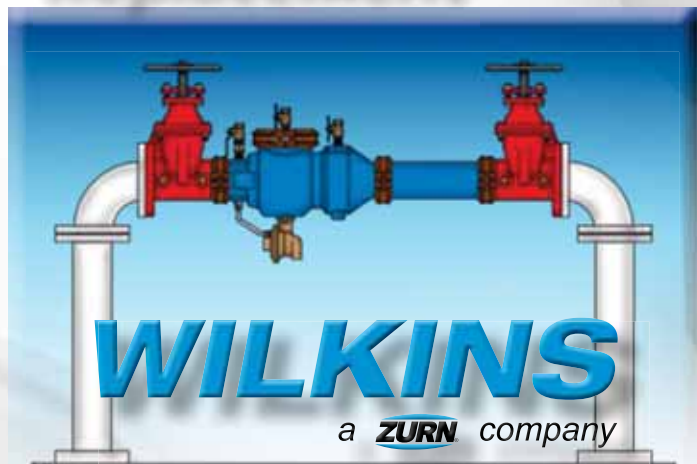
Initial installation costs are similar for all backflow products on the market. However, once you consider the costs to test, clean and repair over the life-cycle of your backflow preventer, *Wilkins* is in a class by itself. Multiply these savings by the number of backflow preventers under your care and custody, and you can realize significant cost savings in your maintenance budget.

If you need to install backflow, *Wilkins* is the best choice. If you have to replace your backflow, regardless of the brand you currently have, you will want to replace with *Wilkins*.

Before



Replacement



Wilkins offers grooved by grooved spools that mount between the grooved backflow body and the grooved shut off valve. These grooved spools are custom made to order and shipped pre-assembled with the backflow preventer. This single assembly backflow configuration is the most cost effective replacement solution available.

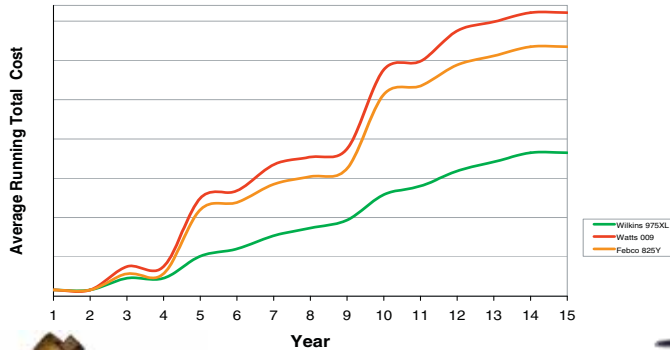
Wilkins Is Money In Your Pocket.

Here's Why:

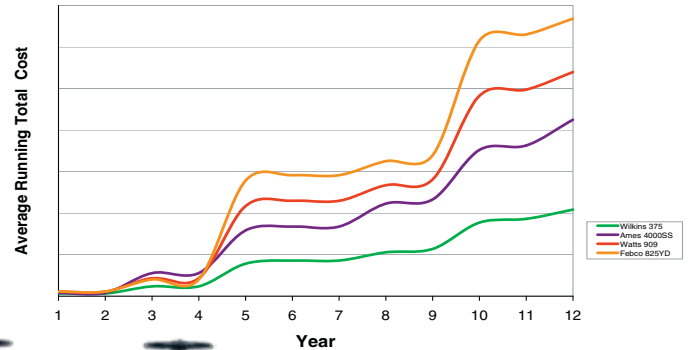
- 💰 Simple Product Designs Requiring Less Labor To Maintain & Repair.
- 💰 Proven Designs With Consistent Test Results
- 💰 Products Designed For In-Line Maintenance
- 💰 Repair Kits Cost Up To 70% Less Than The Equivalent From Our Competitors
- 💰 Short Lay-Lengths Fit In Most Spaces
- 💰 Superior Technical Support (877-BACKFLO)
- 💰 97% On-Time Delivery



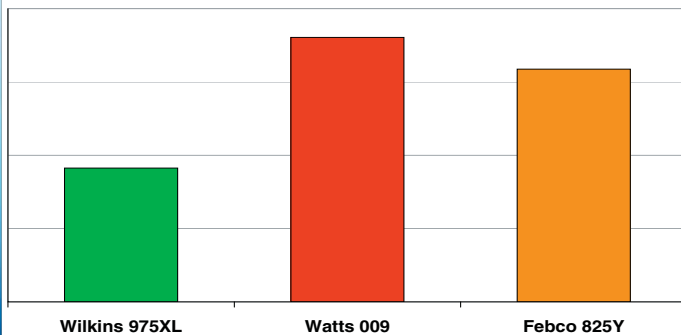
15 Year Annual Life Cycle Cost Comparison
2" RP Device



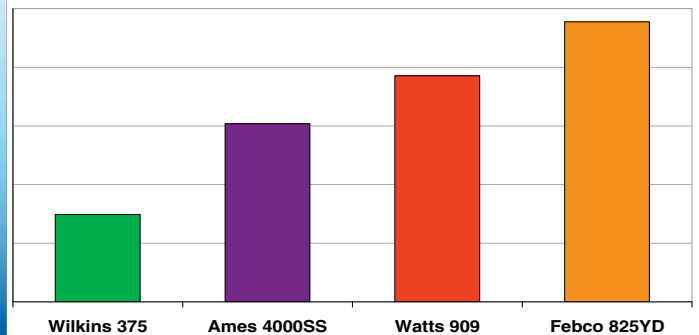
12 Year Annual Life Cycle Cost Comparison
4" RP Device



15 Year Total Life Cycle Cost by Brand
2" RP Device



12 Year Total Life Cycle Cost by Brand
4" RP Device



* Source: April 2009 Contractor Survey

* Source: April 2009 Contractor Survey

Contact your local Wilkins sales representative for a demonstration of the backflow life-cycle analysis tool that helps identify your actual cost savings with Wilkins. We also provide a hands-on demonstration of the ease of maintenance & repair-ability of Wilkins backflow preventers.

Company Name	_____	Contact	_____
Address	_____	Phone	_____
City	_____	email	_____
State	_____	Zip Code	_____
Project Location	_____	Rep Agency	_____
	_____	Rep Contact	_____
Want Date	_____		

FOR CUSTOMER SERVICE USE ONLY

Sales Order Number	_____	Part Number	_____
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Order Information

	Lead-Free Standard Valves	Detector Assy
Double Check	350AR <input type="checkbox"/>	350ADAR <input type="checkbox"/> (Lead-Free not required)
Reduced Principle	375AR <input type="checkbox"/>	375ADAR <input type="checkbox"/> (Lead-Free not required)

Size 2 1/2" 3" 4" 6" 8" 10"

Inlet Gate Valve NRS OS&Y

Outlet Gate Valve NRS OS&Y

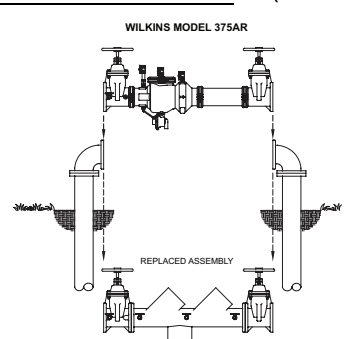
Other Details

Valve Type Being Replaced (Submit a separate form for each replacement backflow)

Manufacturer _____ Model _____

Face to Face Dimension (exact field measurement) _____ (± 1/16")

Valve Size	Face to Face Dimension (overall lay length)							
	Length Range "A"		Length Range "B"		Length Range "C"			
	From	To	From	To	From	To		
2 1/2"	37 1/4"	47 1/8"						
3"	38 1/4"	48 1/8"						
4"	40 1/2"	50"					50 1/16"	62 1/4"
6"	49 1/2"	59"					59 1/16"	71 1/4"
8"	64 7/8"	74"					74 1/16"	86"
10"	67 3/8"	77"	77 1/16"	89"	89 1/16"	100 5/8"		



WILKINS MODEL 375AR
REPLACED ASSEMBLY

Signature to Guarantee Field Measurement (Purchaser) Date _____

300 AR Series Valve Orders Are Non-Cancellable and Non-Returnable. Signing this form guarantees the face to face dimensions to be accurate.

Wilkins QA Signature Guarantees Build Length Date _____

National Fire Equipment Ltd.

Backflow Test Equipment



**Model TG-5 - 5 Valve
Assembly Backflow Test Kit**

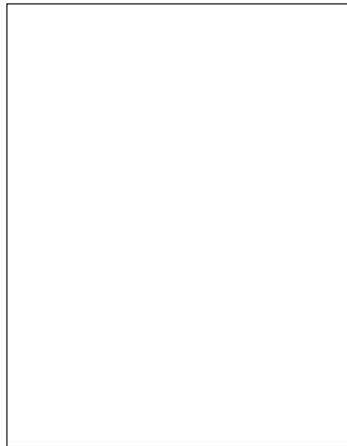


**Backflow Prevention
Quick Test Fittings**

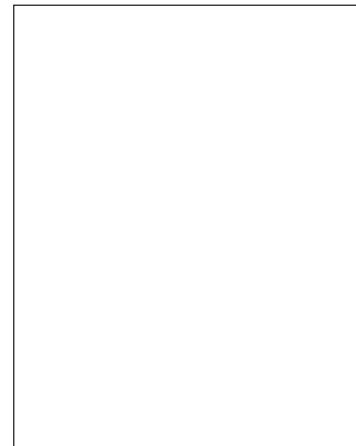
Please contact the National Fire Equipment branch office nearest you for your copy of any of our fire protection products price list publications!



Sprinkler Products



Interior Products



Forestry Products

VANCOUVER:

7972 Winston Street
Burnaby, BC V5A 2H5

Phone: (604) 420-1131

Fax: (604) 420-2103

TOLL FREE BRITISH COLUMBIA:

1-800-667-2138

EDMONTON:

14112 - 129 Avenue
Edmonton, AB T5L 4N5

Phone: (780) 455-3870

Fax: (780) 451-0926

TOLL FREE ALBERTA:

1-888-891-1008

CALGARY:

Bay #1, 4115 - 61 Avenue S.E.
Calgary, AB T2C 1Z2

Phone: (403) 236-5661

Fax: (403) 236-2367

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