STYLE 9209 use these illustrations to identify the various parts in this kit.

P/N 7-57-034 Threaded Trunnion O-Ring (15)

0-Ring (6) P/N 7-57-105 **Handle Trunnion**

Trunnion O-Ring (6) P/N 7-57-009

Handle Trunnion O-Ring (12) P/N 7-57-174

P/N 7-57-042 Ball Trunnion O-Ring (12)





P/N 118570 Brass Ball (19)





ISO 9001 REGISTERED COMPANY

PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | www.akronbrass.com Available in Canada through AKRON MANUFACTURING COMPANY

PHONE: 519.773.8431 | FAX: 519.773.3794

REVISED 11/02

RRANTY AND DISCLAMBR: We warrant Akron Brass products for a period of five (5) years after purchase against defects in materials or kmanship, Akron Brass will repair or replace product which fails to satisfy this warranty. Repair or replacement shall be at the discretion of Akron

will not be responsible for were and text any improper installation, use maintenance or tonage regligence of the owner or user repair or difficultion after delivery, larger failure to follow our instructions or encommendation or anything det bypood are control. We MARE NO MARANTIES, EXPRESS OR MARED, OTHER THAN TROSE RICLIOD BINTHE WARRANTY STREMENT, AND WE DESCLAM ARY IMPRESS WARRANTY

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1 ½" SWING-OUT™ VALVE FIELD SERVICE KIT FOR CONVERSION KIT FOR **STYLE 9209** 7615 / 7815 8815

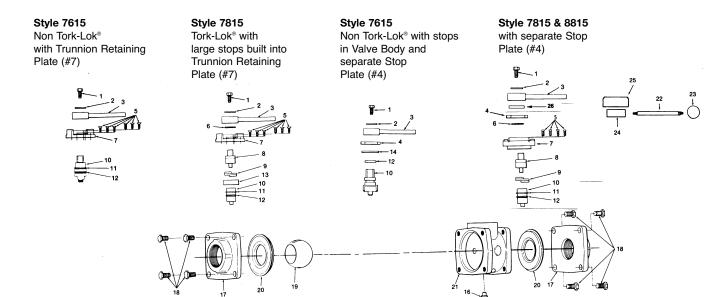




STYLE 9209 FIELD SERVICE KIT FOR 8815 CONVERSION KIT FOR 7615 / 7815 1 ½" SWING-OUT™ VALVE



For assistance or further information, please contact the Technical Service Dept: Akron Brass Co., P.O. Box 86, Wooster, Ohio 44691, 330-264-5678 Akron Manufacturing Co., P.O. Box 280, Aylmer, Ontario, N5H 2R9, 519-773-8431



ITEM		7615 with	7815 with Stops	7615 with	7815 with	8815 with
No.	DESCRIPTION	Trunnion Plate	in Trunnion Plate	Separate Stop Plate	Separate Stop Plate	Separate Stop Plate
1	Handle Bolt	7-61-067	7-61-067	7-61-067	7-65-094	7-65-094
2	Handle Washer	7-84-008	7-84-008	7-84-008	7-84-008	7-84-008
3	Handle*					
4	Stop Plate	N/A	N/A	7-42-074	7-42-074	7-42-074
5	Trunnion Plate Screws	7-67-090 (6)	7-67-090 (6)	N/A	7-65-028 (4)	7-65-028 (4)
6	Handle O-Ring	N/A	7-57-105	N/A	7-57-009	7-57-009
7	Trunnion Retaining Plate	105706	***	N/A	7-42-075	7-42-075
8	Handle Trunnion	N/A	7-72-091	N/A	7-72-091	7-72-091
9	Tork-Lok Spring	N/A	7-68-116	N/A	7-68-116	7-68-116
10	Ball Trunnion	7-72-087	7-73-148	7-72-114	7-73-148	7-73-148
11	Retaining Ring	7-58-153	7-58-153	N/A	7-58-153	7-58-153
12	Trunnion O-Ring	7 57-042	7-57-042	7-57-174	7-57-042	7-57-042
13	Tork-Lok Sleeve	N/A	7-69-176	N/A	N/A	N/A
14	7600 Handle Spacer	N/A	N/A	7-69-313	N/A	N/A
15	Threaded Tnunnion O-Ring	7-57-034	7-57-034	7-57-034	7-57-034	7-57-034
16	Threaded Trunnion	7-73-092	7-73-092	7-73-092	7-73-092	7-73-092
17	Complete Adapters*					
18	Adapter Bolts (8)	7-61-091	7-61-091	7-61-091	7-61-091	7-61-091
19	Ball	7-03-151	7-03-151	7-03-151	7-03-151	118570
20	Seats (2)	7-69-177	7-69177	7-69177	7-69-177	7-69-177
21	Valve Body	106312	106312	106308	106312	106312
22	TS Handle Rod-5"	N/A	109148	N/A	109148	109148
23	TS Handle Ball	N/A	7-03-080	N/A	7-03-080	7-03-080
24	TS Handle Hub	N/A	7-21-202	N/A	7-21-202	7-21-202
25	TS Handle Cover	N/A	109916	N/A	109916	109916
26	Spacer**				7-69-411	7-69-411

^{*} See Price List for complete handles and adapters.

INSTRUCTIONS FOR INSTALLING THE PARTS IN THIS KIT

DISASSEMBLY—BALL AND SEATS

Note: This kit includes extra O-rings for the different variations of valve. Identify the correct replacement O-rings when removing the old ones.

- 1. Turn the valve to the open position.
- 2. If the valve can be rotated out of line, remove three pairs of adapter bolts (18) and loosen the fourth pair. Swing the valve out of the line. If the valve cannot be rotated out of line, remove all eight adapter bolts and take the valve out completely. Note: If it is necessary to remove the handle, mark the position of the handle in relation to the ball position, and the orientation of the stop plate (4) if so equipped.
- 3. Remove the two seats (20) from the valve body (21). It may be necessary to partially close the ball and grasp the inside lip of the seat.
- 4. Remove the threaded trunnion (16). If necessary, use fine emery paper to clean up the smooth portion that fits into the ball. The ball should fit loosely
- 5. Rotate the handle so that the slot in the top of the ball is parallel to the waterway. Remove the ball (19).

^{***} For use with (FB) R1 handle only.

*** For use with (FB) R1 handle only.

*** Requires conversion kit 7815-0057 to replace this obsolete part. Kit will include parts 1-12 w/ separate stop plate (right column).

DISASSEMBLY—HANDLE AND TOP TRUNNION(S)

Note: If the valve is equipped with an electric actuator, do not disassemble this portion of the valve. The water tight seal will be broken and water may leak into the electronic controls chamber. If the valve is equipped with a standard type handle, it is not normally necessary to replace the O-ring under the handle or on the ball trunnion. Do not disassemble this portion of the valve unless there is a leak.

- 1. Remove the handle bolt (1) and washer (2).
- 2. Note the position of the handle relative to the groove in the top of the trunnion for reassembly purposes. Remove the handle (3) and the stop plate (4), handle O-ring (6) and handle spacer (14) if so equipped.
- 3. If the valve includes a trunnion retaining plate (7), note the position for reassembly purposes. Remove the trunnion plate screws (5).

 Note: With flat head screws, one screw may be tighter than the others. Try to loosen all remaining screws before using excessive force on one. If the valve does not have a retaining plate, remove the trunnion (10) by pushing it into the valve body.
- 4. Remove the trunnion retaining plate (7). If this plate was secured with socket head screws, the handle trunnion (8) should remain in the plate.
- 5. Remove the handle trunnion (8), if separate.
- 6. Remove the Tork-Lok® sleeve (13) and spring (9) subassembly if applicable.

Caution: Do not remove the spring from inside the sleeve.

7. Remove the ball trunnion (10) by pushing it from the inside of the valve.

REASSEMBLY—HANDLE AND TOP TRUNNION(S)

Note: Lubricate all O-rings with Parker O-Ring Lube or equivalent petroleum-based lubricant.

- 1. Replace the O-ring (12) on the ball trunnion (10) and reinstall the trunnion in the valve body.
- 2. Replace the Tork-Lok sleeve (13) and spring (9) subassembly and handle trunnion (8) if so equipped.

Note: The ears of the Tork-Lok spring must be aligned with the corresponding recess of the ball trunnion. The pilot shaft of the handle trunnion must fit into the hole in the center of the ball trunnion.

3. Reposition the trunnion retaining plate (7), if so equipped, and install the screws (5).

Note: For Tork-Lok valves with flat head screws, tighten all six screws until they just touch the plate before fully tightening any one screw. Tighten them in a criss-cross pattern. There should be a small gap between the plate and the valve body.

- 4. Install the handle O-ring (6), style 7600 handle spacer (14), and stop plate (4) as required.
- 5. Position the handle in the proper position, apply a small amount of Locktite 222 or equivalent to the handle bolt (1) and install the bolt with the handle washer (2).

Immediately test the operation of the handle. If it appears to be hard to turn, loosen the handle bolt approximately 1/4 turn.

REASSEMBLY—BALL AND SEATS

- 1. Install the new O-ring (15) on the threaded trunnion (16).
- 2. Use a 10" or larger flat file to clean up the flat surface of the adapters and mating surfaces of the valve body. Remove any paint, corrosion or raised lip around the bolt holes.

Caution: Always file diagonally and keep the file touching both sides of the valve body. The surfaces must remain flat.

- 3. Rotate the handle so that the flats on the sides of the ball trunnion (10) are parallel to the waterway.
- 4. Install the new ball (19) over the ball trunnion and hold it in position.
- 5. Install the threaded trunnion so that it fits into the hole in the ball. Tighten the trunnion.
- 6. Place the new seats into the recesses on either side of the valve body (21).
- 7. Swing the valve body back into line or install the assembly. Loosely install the adapter bolts.
- 8. Turn the ball to the closed position.

Caution: The ball must be in the closed position before the adapter bolts are tightened.

9. Tighten the adapter bolts evenly in an X pattern to the following torques:

1"	100 to 120 inlbs.	2½"	25 to 30 Hlbs.
1½"	215 to 240 inlbs.	3"	38 to 40 ftlbs.
2"	25 to 30 ftlbs.	3½"	38 to 40 ftlbs.
		4 "	60 to 70 ft -lbs

DO NOT OVERTIGHTEN.

10. Operate the valve and test for leakage.

MAINTENANCE INSTRUCTIONS

Do not lubricate the ball or seats. Lubricants can collect dirt and grit which may cause excessive wear. Occasionally, flow water through all valves to clear dirt and debris.

OPERATING INSTRUCTIONS

Always open and close valves slowly.

Do not exceed 500 psi with $1\frac{1}{2}$ ", 2", $2\frac{1}{2}$ ", 3", $3\frac{1}{2}$ " or 4" valves.

Do not exceed 1000 psi with 1" valves.

With SZ handles, always make sure that the handle has been tightened whenever the valve handle is released.

To ensure continued quality performance, use only AKRON replacement parts.