



**Style 9205 - 2 1/2"**

**Field Service Kit for:  
8625, 8825**

**Valves with Metal Ball**

**And**

**8925**

**Valves with Composite Ball**

Since typical repairs do not require replacement of the metal ball, the ball is not included in this kit. If required, the ball can be ordered separately or a repair kit, including the ball, can be ordered. For ordering information - See notes below reassembly instructions.



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ISO 9001 REGISTERED COMPANY

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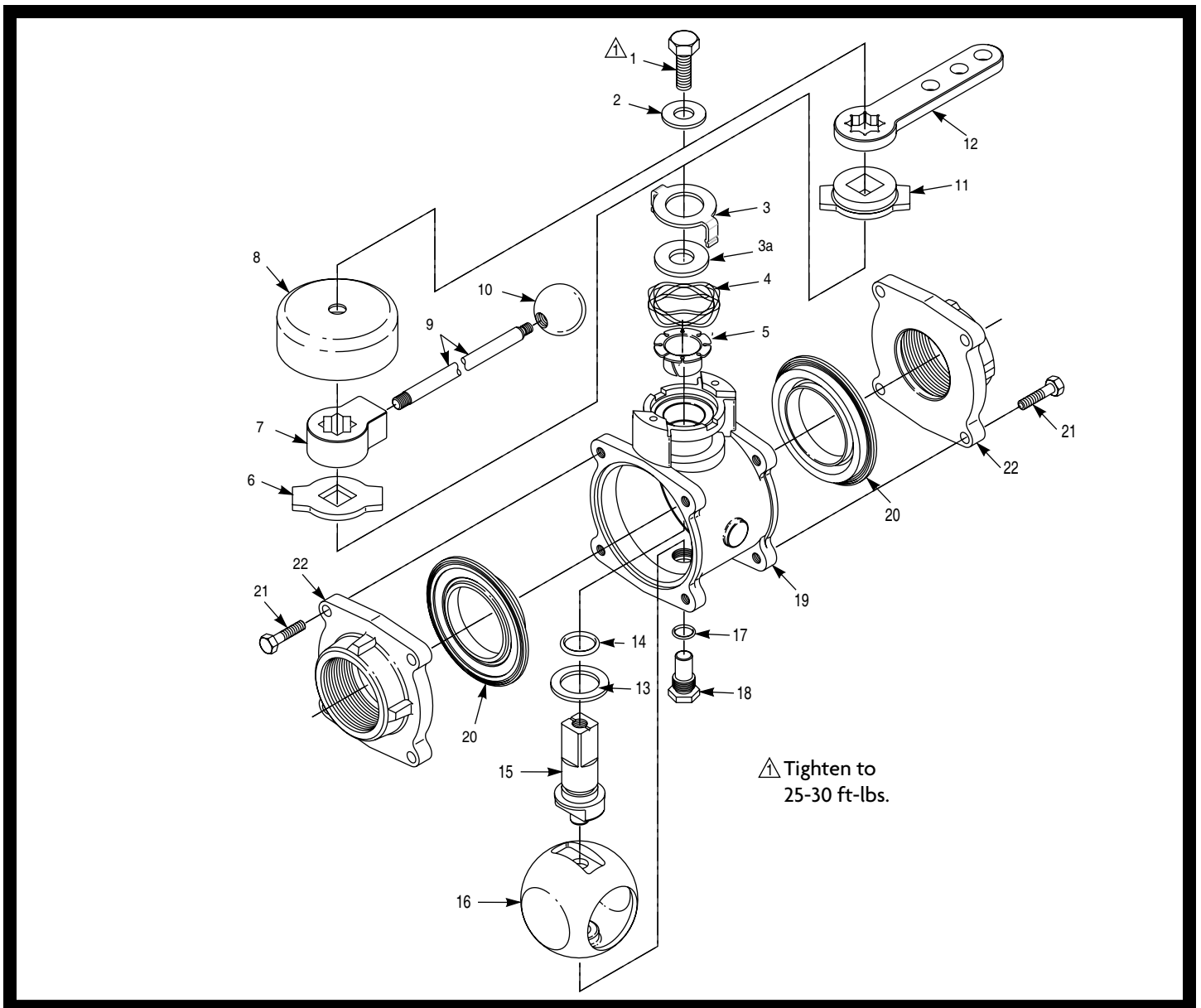


ITEM NO.	DESCRIPTION	QUANTITY	8825
1	Bolt	1	761065
2	Washer	1	784120
3	Bearing Brake w/Clip	1	704788
3a	Bearing Brace <sup>∞</sup>	1	704737
4	Compression Spring	1	768291
5	Nylon Bushing	1	735058
6	Stop Plate (TS/TSC Handle)	1	742073
7	Handle Hub (TS/TSC Handle)	1	721278
8	Cover (TSC Handle)	1	109177
9	Rod* (TS/TSC Handle) Std.	1	109146
10	Ball (TS/TSC Handle)	1	703080
11	Stop Plate (R-1 Handle)	1	742095
12	R-1 Handle Std. Length	1	115613
13	Thrust Washer	1	784104
14	O-Ring*	1	757226
15	Ball Trunnion	1	773300
16	Valve Ball	1	119657
17	O-Ring*	1	757198
18	Threaded Trunnion	1	773094
19	Body	1	116312
20	Seat*	2	769537
21	Bolt	8	761048
22	Valve Adapters	2	**

\*Parts in Service Kits.

\*\*See current catalog for complete list.

<sup>∞</sup> Used only on valves with TS & TSC handles



## FIELD SERVICE KIT INSTRUCTIONS

### DISASSEMBLY

1. Turn the valve ball to the open position.  
Note: If the Valve Handle needs to be removed, the position of the Handle and Stop Plate should first be noted before disassembly.
2. This Valve is designed to “Swing Out” for easy repair.  
In order to swing the Valve, loosen the 4 sets of Adapter Bolts (21). Then remove 3 Bolt sets and rotate the Valve for easy repair. If the Valve cannot be rotated, remove the 4th set of Adapter Bolts.
3. Remove the 2 Seats (20) from the Valve Body (19). It may be necessary to partially close the Ball to grasp the lip of the Seat to remove.
4. Remove the Threaded Trunnion (18).
5. With the Valve in the open position, remove the Ball (16). Clean the Ball with soap and water and inspect for scratches. If severe scratches exist the Ball should be replaced.
6. Remove the Ball Trunnion only if leakage has been detected in this area. To remove the Ball Trunnion (15), first remove the Handle Bolt (1), Washer (2), Bearing Brake (3), Bearing Brace if present (3a) and Compression Spring (4). Then push the Ball Trunnion into the Valve cavity and remove the Thrust Washer (13) from the top of the Ball Trunnion. Next, remove the Nylon Bushing (5) from the upper Trunnion hole.

## **REASSEMBLY**

1. Lubricate the O-Rings (14 & 17) with Parker O-Ring Lubricant or equivalent petroleum based lubricant. Be sure not to place any excess lubricant on the Seats or Ball, as this will collect dirt that may cause excess wear.
2. If the Ball and Ball Trunnion were removed proceed as follows, if not skip to Step 10.
3. Place Thrust Washer (13) on the Ball Trunnion (15).
4. Place O-Ring (14) in the recess of Ball Trunnion (15).
5. Insert the Ball Trunnion into the upper trunnion hole from inside the Valve.
6. Place Nylon Bushing (5), Compression Spring (4), Bearing Brace if present (3a) and Bearing Brake (3) into the recess. Align the tabs on the Bearing Brake with the slots in the Body.
7. Replace the Stop Plate (6 or 11), Handle and any connection hardware. Be sure the tabs on the Bearing Brakes are fitted into the slots of the Body.
8. Rotate the Ball Trunnion to accept the Ball. Insert the Ball into the Valve.
9. Place a new O-Ring (17) in the recess of Threaded Trunnion (18) and thread the trunnion into the Valve body.
10. With the Ball in the open position, place a new Seat (20) into the recess on each side of the Valve Body.
11. Return the Valve to its original position between the flanged adapters and loosely replace the 8 Bolts.
12. Close the Valve Ball and then tighten the flange bolts. Tighten the bolts in an "X" pattern using 25-30 foot pounds of torque.

### **DO NOT OVER TIGHTEN**

13. Operate the Valve and inspect for leaks.

## **MAINTENANCE INSTRUCTIONS**

Do not lubricate the ball or seats. Lubricants can collect dirt and grit which may cause excessive wear. Valves should be operated with water occasionally, to flush out dirt and debris. Also, valves that are infrequently used, should be operated periodically.

## **OPERATING INSTRUCTIONS**

Always open and close valves slowly to minimize the effects of water hammer. Akron Actuators are designed to comply with current NFPA 1901 Standard regarding opening and closing speeds.

Maximum operating pressure is 500 psi.