Model A-522-C2-CS-SJ and A-522-C2-MO-SJ

4" Ball Valve



A-522-C2-CS-SJ A-522-C2-MO-SJ

Features and Benefits

- Lower and more consistent torque requirements
- Single packing nut for easy packing adjustment
- Easy to repair due to minimal number of parts
- Flat-stem design for easy indication of valve positioning
- Bolts mounting the valve to the tank car are are on the bottom of the valve as opposed to top therefore not exposed to the commodity for easy maintenance

Technical Specifications

- · Available with and without a steam jacket
- Full 4" Dia. port opening
- Flow Coefficient (Cv): 2500 (Est.)
- Max Pressure: 300 PSIG @ 100°F
- Max Temperture: 400°F
- Operating Torque: 70~160 ft-lb
- Handle Rotation: Counterclockwise to CLOSE VALVE. For Clockwise rotation to close, remove Locknut (Item #13), remove and turn over Stop Plate (Item #8), reinstall Locknut and tighten to 150 ft-lb.
- Mounting: Mounts to Universal Saddle with 8.485" OD x 7.500" ID x 0.350" High Tongue and (8) $\frac{3}{4}$ -10 UNC tapped holes on a 10.63 BCD
- Recommended Gasket Size: 8.50" OD x 7.50" ID x 0.12" Thick
- AAR Approval No. E122005

Notes

 For more information refer to the "Series A-520 and A-522 Installation, Operation, Inspection, and Maintenance (IOM) Manual" Midland doc. No. "INST A520/522"



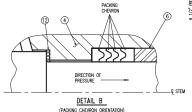


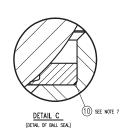
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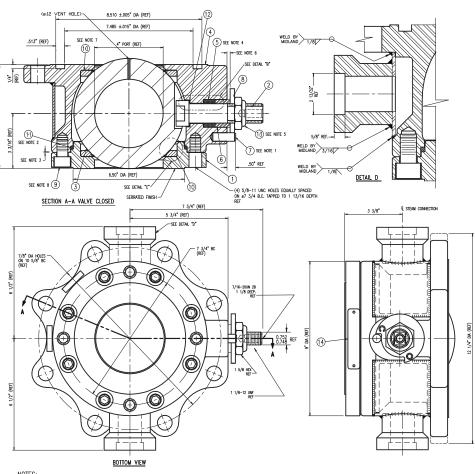
4" Ball Valve

| | 01 | 5 (8) | A-522-C2-CS-SJ | | A-522-C2-MO-SJ | |
|------|-----|---|----------------|-----------------|----------------|-----------------|
| Item | Qty | Part Name | Part No. | Material | Part No. | Material |
| 1 | 1 | Сар | 520-112-CS | Steel | 520-112-MO | Stainless Steel |
| 2 | 1 | Stem | 520-2-SS | Stainless Steel | 520-2-SS | Stainless Steel |
| 3 | 1 | Ball | 520-30-MO | Stainless Steel | 520-30-MO | Stainless Steel |
| 4 | 1 | Body and Steam Jacket Assembly | 522-43-CS | Steel | 522-43-MO | Stainless Steel |
| 5 | 1 | Packing | 520-5-01-TF | Virgin Teflon | 520-5-01-TF | Virgin Teflon |
| 6 | 1 | Spacer | 520-6-SS | Stainless Steel | 520-6-SS | Stainless Steel |
| 7 | 1 | Pin | 520-7-CS | Steel | 520-7-CS | Steel |
| 8 | 1 | Stop Plate | 520-8-CS | Steel Plated | 520-8-CS | Steel Plated |
| 9 | 8 | Capscrew, Hex-Soc, 5/8"-11UNC-2A X 1" Lg | 520-9-CS | Steel | 520-9-CS | Steel |
| 10 | 2 | Seal, Ball | See Line Chart | See Line Chart | See Line Chart | See Line Chart |
| 11 | 1 | Seal, Valve Body | 520-11-01-TF | Virgin Teflon | 520-11-01-TF | Virgin Teflon |
| 12 | 1 | Washer, Thrust | 520-12-01-TF | Virgin Teflon | 520-12-01-TF | Virgin Teflon |
| 13 | 1 | Locknut, Hex, Thin, 1 1/8"-12UNF, Nylon Insert | 520-13-CS | Steel Plated | 520-13-CS | Steel Plated |
| 14 | 1 | Nameplate | 522-14-95-SS | Stainless Steel | 522-14-85-SS | Stainless Steel |

| Valve | Seal, Ball | | | |
|-------------------|--------------|----------------------|--|--|
| Model Nunber | Part No | Material | | |
| A-522-C2-CS-SJ | 520-10-01-TF | Virgin Teflon | | |
| A-522-C2-MO-SJ | 520-10-01-TF | Virgin Teflon | | |
| A-522-C2-CS-SJ-ST | 520-10-04-TF | 316 SS Filled Teflon | | |
| A-522-C2-MO-SJ-ST | 520-10-04-ST | 316 SS Filled Teflon | | |







NOTES:

- 1. STOP PIN (7) INSTALLATION INTO BODY (4) IS AN INTERFERENCE FIT. THE STOP PIN MUST EXTEND 0.50" AFTER BEING PRESSED INTO BODY.
- 2. BODY SEAL ① MUST BE PRESS-FIT INTO BODY ④ BEFORE CAP ① IS INSTALLED.
- 3. AFTER ASSEMBLY THE BODY 4 AND CAP 1 MUST MAKE INTIMATE CONTACT. NO GAP IS ALLOWED.
- 4. STEM PACKING (5) TO BE INSTALLED WITH CHEVRONS ORIENTED PER DETAIL "B".
- 5. TORQUE PACKING NUT TO 150 FT-LBS INITIALLY.
- 6. AFTER ASSEMBLY OF VALVE THERE MUST BE A 1/8" MIN. AND 1/4" MAX. GAP BETWEEN THE BODY (4) AND THE VALVE STEM STOP (8).
- 7. APPLY SMALL AMOUNT OF DOW CORNING 111 LUBRICANT ON 45' TAPER OF BALL SEALS 1 PRIOR TO ASSEMBLY.
- 8. TORQUE SOCKET HEAD CAP SCREWS TO 130 FT-LB, IF THE REQUIREMENT OF NOTE 3 IS NOT MET, INCREASE TORQUE IN 40 FT-LB INCREMENTS UNTIL THE REQUIREMENT IS MET. DO NOT EXCEED 250 FT-LB.
- 9. VALVE IS ASSEMBLED FOR COUNTER CLOCKWISE SHAFT ROTATION TO CLOSE.
- 10. FOR CLOCKWISE SHAFT ROTATION TO CLOSE, CLOSE VALVE, REMOVE ITEM #13, REMOVE, TURN OVER AND REINSTALL ITEM #8, AND REINSTALL AND TIGHTEN ITEM #13 PER NOTE #5.