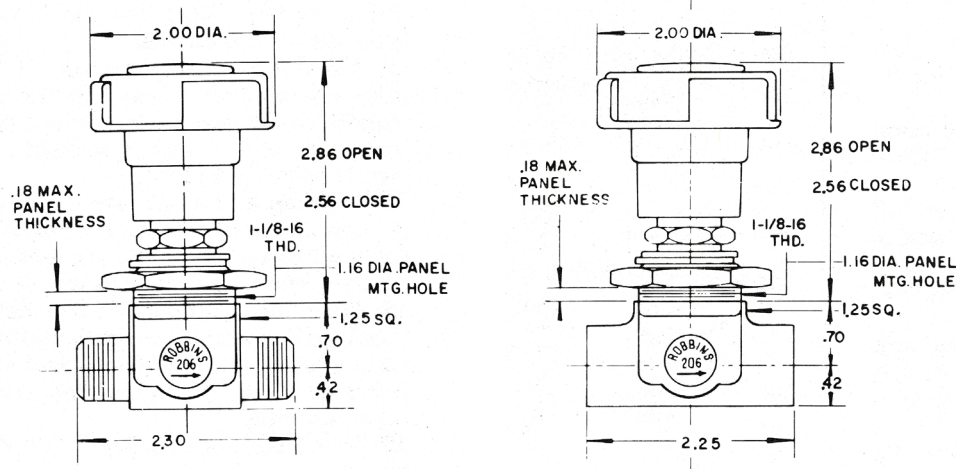


## ALTA ROBBINS



- Gaseous or liquid service
- High vacuum — 3500 PI
- Ideal for Use with Exotic Gases and Most Acids
- Substantially reduces maintenance costs
- Completely eliminates loss of fluid medium
- Non-rotating stem
- Bonnet Lock Spring for added safety
- Quick mounted in any position — universal mounting bracket available upon request



### TECHNICAL DATA

**OPERATING PRESSURE:** HIGH VAC-3500 PSI

**SAFETY FACTOR:** 4:1

**OPERATING TEMPERATURE:** -65°F to +350°F

**PORTS:** See Table

**ORIFICE DIAMETER:** 0.187 Inch

**CV:** 0.48

**INTERNAL & EXTERNAL LEAKAGE:** Zero

**BODY MATERIAL:** Stainless Steel

**SEALING MATERIAL:** Teflon

**OPERATING TORQUE:** 14 in. lbs. at 2000 PSI

**HANDLE TURNS TO OPEN:** 6 (Approximate)

**WEIGHT:** 1.25 lbs. max.

### ORDERING INFORMATION

MODEL NUMBER	BODY MATERIAL	PORTS
206G-T01-2L2L	303 SS	1/4" NPT, Male
206G-T01-2P2P	303 SS	1/4" NPT, Fem.
206G-T05-4T4T	316 SS	AS5202-4*
206G-T01-3L3L	303 SS	3/8" NPT, Male

\* Interchangeable with MS 33649-4

## MAINTENANCE

Lubricate Handle-Bonnet threads regularly using Halocarbon 25-5S or equal.

### OVERHAUL

After extended service, valve may be disassembled for inspection and replacement of worn parts. Use Halocarbon 25-5S or equal for Handle-Bonnet threads. Use an inert oil (such as Halocarbon 10-25 or Krytox 143AC) for light lubrication of all other parts indicated. Valve can be completely disassembled without removal from the line.

### DISASSEMBLY

1. Open valve fully and remove Lock Spring (U).
2. Unscrew and remove Bonnet Assembly (A). (If replacing Bonnet Assembly as a unit, clean valve body thoroughly and insert new Bonnet Assembly, tightening to 200 inch pounds torque. Replace Lock Spring and disregard remaining instructions.)
3. Remove Plug (B) from Handle (E). Remove Nut (C) with 7/16" socket wrench, using 1/8" Allen wrench through notch in Washer (D) and in Handle to keep Stem from rotating. Remove Washer.
4. Unscrew Handle from Bonnet (H); remove Handle Thrust Washer (F). While holding Bonnet by wrench hex, push top (threaded end) of Stem (S) against a hard flat surface to remove tapered Handle Stop (G).
5. Pull stem assembly from Bonnet; remove Bearing (J) from Bonnet.
6. Remove Bearing Follower (K) and Spring (L) from Stem. Push remaining stem assembly (seat retainer end first) into Bonnet to eject Seat (T), Seat Retainer (R), Seat Retainer Seal (P), and Sleeve (M). Remove Crush Seal (N) from Sleeve.

### REASSEMBLY

All parts should be thoroughly cleaned.

7. Hold Sleeve (M) upright with collar end **up**; lubricate upper cavity and insert Crush Seal (N) with convex (rounded) edges of convolutions pointing **down**. Lubricate lightly inside of Crush Seal. Install Seat Retainer Seal (P) on collar of Sleeve.
8. Install Seat Retainer (R) on Stem (S). Insert Stem, threaded end first, through Crush Seal, pushing Stem through so shoulder holds Seat Retainer in place against Seat Retainer Seal and Sleeve. (Bonnet may be used as a tool to aid in this operation.)
9. Install Spring (L), Bearing Follower (K) flat surface first, and Bearing (J) small diameter taper first, on Stem.
10. Lubricate bore of Bonnet and install stem assembly. Install Handle Stop (G) and Handle Thrust Washer (F) on Stem.
11. Lubricate Handle threads lightly and install Handle on Bonnet until Handle Thrust Washer is seated on Handle Stop.
12. Install Washer (D) and Nut (C). Insert 1/8" Allen wrench through notch in Washer and in Handle to hold Stem stationary, and tighten Nut with 7/16" socket wrench until solid metal-to-metal contact is made.
13. Holding Bonnet to prevent rotation, turn Handle counterclockwise to compress Spring and pull assembled parts into position, making sure Seat Retainer Seal is well seated.
14. Press Seat (T) firmly into Seat Retainer (R). Lubricate Bonnet threads lightly and install Bonnet Assembly into Body until Seat Retainer is bottomed in position. Tighten Bonnet to 200 inch pounds torque.
15. Install Lock Spring (U). Install Plug (B) in Handle.

## REPLACEMENT PARTS

PART #	NAME	
10394	Plug	(B)
10393	Nut	(C)
206-13	Washer	(D)
206-7	Handle	(E)
206-14-T	Handle Thrust Washer	(F)
206-50	Handle Stop	(G)
206-2-1	Bonnet	(H)
206-16-T	Bearing	(J)
206-11-1	Follower	(K)
11007	Spring	(L)
206-9-1	Sleeve	(M)
206-15-T	Crush Seal	(N)
206-17-T	Seat Retainer Seal	(P)
206-8-1	Seat Retainer	(R)
206-3-1	Stem	(S)
206-4-T	Seat	(T)
206-25	Spring	(U)
206-5	Panel Nut	(V)

### (A) Bonnet Assembly (206-102-1)

Consists of all functional parts, sealed and ready to install in body

Soft Goods Kit (F, J, N, P, T) 4023-1-1

*Special Techniques are required to service this valve series. Unless qualified personnel and prosper facilities are available, we recommend returning them to the factory for servicing.*

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