

Product Information News

August 19, 2004

MMR/BMR CYLINDER VALVE BURST DISC

MSA has changed its recommended installation procedures for the Cylinder Valve Burst Disc and Safety Plug for MMR/BMR current and prior designs. This change provides new torque values for the safety plug to prevent against the stripping of the threads during installation. These new torque values do not affect the performance of the burst disc, therefore field deployed units do not need to be retrofitted. The new torque values should be applied only in future installations of the burst disc.

This new procedure is to be followed during routine servicing of the cylinder valve burst disc.

For convenience, place a copy of this PIN Article in the CARE Manual Binder.

The inspection and maintenance procedure authorized in this PIN Article is classified Certified Maintenance and must be performed by a MSA CARE Certified Air Mask Technician.

⚠ CAUTION

Certified personnel ONLY are authorized to receive this publication. This publication is an extension of the authorized maintenance procedures manual for the apparatus described, and should be kept on file with that manual.

⚠ WARNING

Before repairing the cylinder valve, bleed all air from the cylinder. Open the cylinder valve 1/2 turn and leave it open until all air is exhausted. Wear hearing protection if this is done in an enclosed area to avoid possible hearing damage. Do not attempt to repair the valve if the cylinder pressure gauge shows pressure. If you cannot relieve pressure by opening the cylinder valve handwheel, loosen the safety plug (no more than 1/4 turn). Failure to follow this warning can result in serious personal injury or death. This warning is for all procedures.



For More Information: Call (1-800-MSA-2222) or Visit Our Website at (www.MSAnet.com)



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MINE SAFETY APPLIANCES COMPANY
PITTSBURGH, PENNSYLVANIA, U.S.A. 15230

INSTALLATION

PRIOR DESIGN BURST DISC INSTALLATION

Note: The procedures which follow apply only to the cylinder valves listed below. A separate set of procedures for more recently-introduced cylinder valves begins under current cylinder valve disassembly and repair. (See the Introduction for Required Tools)

Original Cylinder Valves:

P/N 473664	2216 psig Low Pressure and Dual-Purpose
P/N 494883	3000 psig Low Pressure
P/N 473255	High Pressure and Dual-Purpose.

Installation Procedure

1. Place a thin film of Snoop on all new burst discs. (2216,3000, and 4500 PSI Cylinder Valves). Refer to figure 1 for more information.

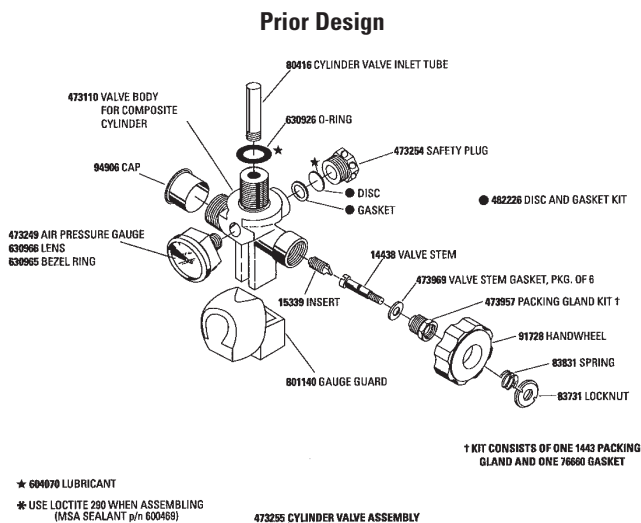


Figure 1: Prior Design Cylinder Valve Assembly

2. Place the new burst disc on top of the new gasket inside the cylinder valve. Be sure the gasket and disc lay flat.



WARNING

Be sure gasket, then burst disc, are installed in the order described. Ensure threads of burst disc area and safety plug threads are free of lubricant. Failure to install properly may cause burst disc malfunction, and may result in serious personal injury or death.

CAUTION

DO NOT re-use the burst disc or the gasket. You may change the burst rating.

3. Thread the new safety plug into the hole.

4. Use a torque wrench with a socket to tighten the plug to the proper value as stated in the Care Binder. MSA has changed its recommended torque for the Custom 4500 Cylinder Valve Safety Plug for MMR/BMR. The torque requirement in the chart for the Custom 4500 MMR/BMR Safety Plug was 26-30 ft-lbs. It is now 21-25 ft-lbs.



5. Leak test the assembly (see the LEAK TEST section of the CARE Binder).

CURRENT DESIGN BURST DISC INSTALLATION

Installation Procedure

1. Place a thin film of Snoop on all new burst discs. (2216, 3000, and 4500 PSI Cylinder Valves). Refer to figure 2 for more information.

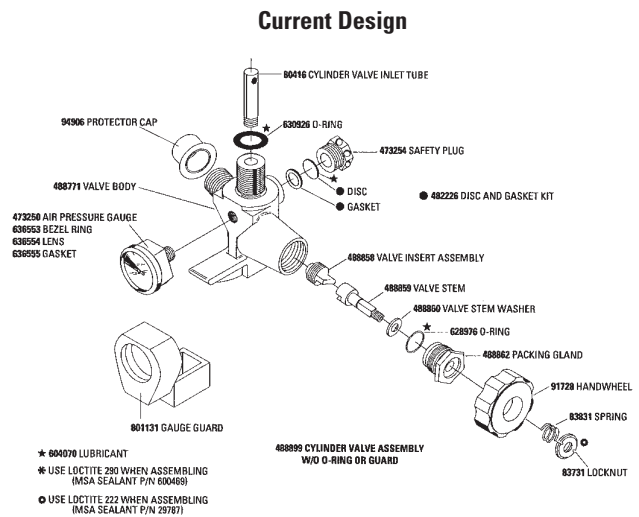


Figure 2: Current Cylinder Valve Assembly

2. Place the new Burst Disc on top of the new Gasket inside the cylinder valve. Be sure the gasket and disc lay flat.

INSTALLATION

⚠ WARNING

Be sure gasket, then burst disc, are installed in the order described. Ensure threads of burst disc area and safety plug threads are free of lubricant. Failure to install properly may cause burst disc malfunction, and may result in serious personal injury or death.

⚠ CAUTION

DO NOT re-use the burst disc or the gasket. You may change the burst rating.

3. Thread the new safety plug into the hole.
4. Use a torque wrench and socket to torque the safety plug to the proper value as stated in the Care Binder.

MSA has changed its recommended torque for the Custom 4500 Cylinder Valve Safety Plug for MMR/BMR. The torque requirement in the chart for the Custom 4500 MMR/BMR Safety Plug was 26-30 ft-lbs. It is now 21-25 ft-lbs.



6. Leak test the assembly (see the LEAK TEST section of the CARE Binder).

This completes the burst disc repair procedures.



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