

Replacement of Fisher™ POSI-SEAL™ A31A Valve with Fisher 8532 High-Performance Butterfly Valve

Table of Contents

- Management of Change2
- Background2
- Question & Answer Checklist2
- POSI-SEAL A31A and 8532 Valve Comparison ..4
 - Scope, Size, Class 4
 - Capacities (Cv) 4
 - Actuator Sizing (Torque) 4
 - Dimensions 4
 - Body Style 5
 - Spare Parts 5
- Conclusion5
- Additional Resources5



Management of Change

Management of Change (MOC) is a procedure used to proactively manage changes that have the potential to impact safety or the process within a plant. Evaluating new techniques for improving MOC approval procedures can have an impact on plant efficiency. Historically, upgrading obsolete products or replacing existing process control equipment had been delayed or abandoned due to the extensive paperwork involved in completing a complex MOC approval sheet.

Background

The Fisher POSI-SEAL A31A rotary valve is a high-performance butterfly valve (HPBV) for use in automated on/off, quarter-turn applications. The A31A valve is configured with a keyed drive shaft for use with various styles of valve actuators. Fisher POSI-SEAL A31A valves will be made obsolete, effective October 2016, and will transition to the Fisher 8532 rotary valve.

The A31A valve is very similar to the 8532 valve, as they were developed at the same time. The 8532 valve is typically configured with a spline shaft and paired with Fisher 2052 or 1061 actuators for excellent throttling performance. However, the 8532 valve is now available with shaft style and actuator mounting options; this makes it possible to configure an 8532 valve just like an A31A valve. The 8532 valve configured with keyed shafts will perform and install the same as the A31A valve, and it may be used in the same applications.

For more information regarding Fisher valves, contact your local Emerson sales office.

Question & Answer Checklist

- 1** **Q:** Does the proposed modification cause any changes to the piping and instrumentation diagram (P&ID)?
A: No.
- 2** **Q:** Does the proposed modification change process chemistry, technology, or operating and control philosophies?
A: No.
- 3** **Q:** Does the proposed modification change how the existing plant is operated?
A: No.
- 4** **Q:** Does the proposed modification change process flows?
A: No.

- 5** Q: Does the proposed modification change existing pressure relief cases?
A: No.
- 6** Q: Does the proposed modification change the process description?
A: No.
- 7** Q: Have the codes and standards to which the new equipment was designed changed?
A: No. However, they may have been updated since installation.
- 8** Q: Does the proposed modification change the materials of construction, such as a change in material form (cast, forged, or alloy)?
A: No.
- 9** Q: Does the proposed modification introduce new equipment items that require periodic predictive maintenance?
A: No. These equipment items will require the same periodic predictive maintenance.
- 10** Q: Does the proposed modification change existing operator training requirements?
A: No.
- 11** Q: Does the proposed modification introduce new equipment items that require spare parts, training manuals, maintenance procedures or training to teach the maintenance department how to maintain them?
A: No.
- 12** Q: Does the proposed modification introduce new equipment items that require spares or obsolete spares for existing equipment?
A: No.
- 13** Q: Does the proposed modification permanently remove the spares for existing pieces of equipment?
A: No.

14 Q: Does the proposed modification change the inspection scope or inspection interval?

A: No.

15 Q: Does the proposed modification require welding work to be performed?

A: No.

16 Q: Have the materials of construction been reviewed to ensure that the metallurgy is correct?

A: No.

POSI-SEAL A31A and 8532 Valve Comparison

The following sections are intended to provide a nominal comparison between the Fisher POSI-SEAL A31A valve and the Fisher 8532 valve.

Scope, Size, Class

The A31A valve was available in NPS 14 through NPS 24, CL150 to 300. All sizes of A31A valve will be made obsolete and replaced with the 8532 valve in equivalent size and class.

Capacities (C_v)

The flow capacity of the 8532 valve is the same as the A31A valve.

Actuator Sizing (Torque)

The actuator sizing for the 8532 valve is the same as the A31A valve. The sizing coefficients, breakout torque, and dynamic torque are also the same.

Dimensions

The 8532 valve has the same dimensions as the A31A valve when the keyed shaft style option is used; this includes actuator mounting dimensions.

Body Style

The A31A and 8532 valves were previously available in both wafer (flangeless) and lugged (single-flange) valve body styles. The lugged body style of the 8532 valve is now standard. Lugged valve bodies can be direct replacements of wafer body valves as the face-to-face dimensions are the same. A drilled-through flange hole option is available for users who prefer the flange bolting style, typically used with wafer bodies. Effective October 2016, the wafer (flangeless) style valve bodies will no longer be available.

Spare Parts

The A31A valve and 8532 valve use identical trim parts, including seals, gaskets, bearings, and packing. Any spare parts for the A31A valve may be used for the 8532 valve.

Conclusion

Emerson offers the Fisher 8532 valve with an optional keyed drive shaft configuration as a replacement for the obsolete Fisher POSI-SEAL A31A valve. With this change, Emerson offers a simplified line of Fisher butterfly valves, while maintaining full application coverage.

Additional Resources

[8532 Instruction Manual](#)

[8532 Product Bulletin](#)

[8532 Product Webpage](#)



Visit [Fisher.com](http://www.fisher.com) to find an Emerson sales contact in your area.



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