Sight Flow Indicators

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Management of Change

Management of Change (MOC) is a procedure used to proactively manage changes that have the potential to impact management of the products 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

Penberthy sight flow indicators continue to evolve and maximize components longevity and interchangeability to minimize complexity and maintenance for customers. The latest change introduces these concepts, as well as improving process efficiency by decreasing the pressure drop across all units.

Question & Answer Checklist

1

Q: Does this product modification cause any changes to the piping and instrumentation diagram (P&ID)?

A: No. The overall length of the assembly and the connection sizes remain the same for every unit.

2

Q: Does this product modification change process chemistry, technology, or operating and control philosophies?

A: No.

3

Q: Have the operating and design limits of the proposed modification changed?

A: No.

4

Q: Have the codes and standards to which the new equipment has been designed changed?

A: No.

5

Q: Does this product modification change the Hazardous Area Classification?

A: No. There are no hazardous area classifications for the sight flow indicators.

6

Q: Does this product modification introduce new equipment that needs to be operated and, has a new operations list been stated?

A: No. The new units operate and provide the same information as before.

7

Q: Does this product 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: Yes. The new equipment has an updated Installation, Operation, and Maintenance Manual. The procedures for maintenance and repair are unchanged, however there are new torque values.

8 **Q:** Does this product modification change the spares for existing pieces of equipment?

A: Yes. The spare parts for the new units are different from the prior. All new units have the spare parts kit required marked on the faceplate (unit tag). Prior units did not list the required spare parts, therefore differentiating between the two is straight forward.

9 **Q:** Does this product modification introduce new equipment items that require periodic predictive maintenance?

A: There is no change to the inspection requirements. Unit longevity within service will be the same as before or potentially longer.

10 **Q:** Does this product modification result in a change in appearance that could raise a question about form, fit, or function?

A: Yes.
1. The flow arrows are now cast into the body instead of being shown on the faceplate, making them more permanent. There is no change to the inspection requirements. Unit longevity within service will be the same as before or potentially longer.
2. The opening for viewing, or view diameter, now matches or is slightly larger than, the nominal line size, which in some cases means it is slightly smaller than the previous version of the assembly.

Sight Flow Indicator Quick Comparison Chart for 2025 and Newer Units

Attribute	2025 & Newer as compared to 2024 & Earlier Units
Overall Length	Same
Unit Depth	Minimal change (see each size)
View Diameter	Same or slightly smaller, but as large as line diameter
Flow arrow	Present, but cast on body instead of on faceplate
Spare parts	Not interchangeable. Parts kit shown on faceplate
Bronze material	B61 now standard
Bolting	A354-BD now standard/A193-B7 available is an option
Neoprene	Max temperature corrected to 250F (121C)
Graphite	GHL or equiv. standard/GHR or equiv. is an option
Selection Guide	New selection guide in place, part number change eliminates possibility of incorrectly identifying version

Table 1. Attribute comparison between 2025 and new units versus 2024 and prior assemblies

Conclusion

Penberthy sight flow indicators meet or exceed all prior rated units and all units are fully interchangeable.

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