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(Fe) Fugitive Emission

Process Control Solutions



A row of white chairs with one orange chair standing out. The chairs are arranged in a line, and the orange chair is the only one of its color. The background is a plain, light-colored wall and floor.

How many ISO Class 'A' (Fe) Fugitive Emission valve manufacturers are there?

What if...

- You could meet new environmental legislation today?
- You could avoid penalties for fugitive emissions?
- You could increase your bottom line by controlling invisible costs?
- You could reduce plant inefficiency?

Imagine...

- A product that helps you limit impact on the environment
- A product that meets the very highest ISO 15848 'A' classification
- Increased savings in space and weight
- Working with a truly innovative solution provider



Work Safer

Industry today faces unprecedented pressure from environmental legislation. As that pressure continues to grow, so does the demand for products that help to limit the impact of industrial processes on our environment. Parker Instrumentation's new instrumentation manifold range meets the most stringent constraints on fugitive emissions, as defined by ISO 15848, simplifying compliance with environmental standards and reducing the risk of penalties.

Zero emissions

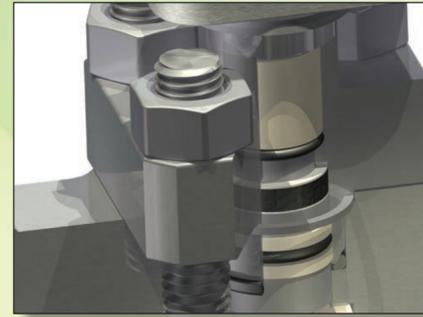
The ISO 15848 standard effectively sets a requirement for zero emissions for processes involving volatile air pollutants and hazardous fluids – so 'zero emissions' was our design goal. The result is a new manifold range that delivers consistent, reliable performance that meets the highest ISO 15848 classification.

Highest standards

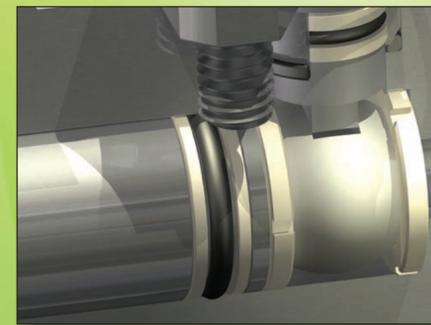
ISO 15848 defines three leakage classifications, which specify maximum leakage rates from less than or equal to 1×10^{-2} mg/second/metre, to a figure four orders of magnitude less. Meeting any of these low levels is challenging: our valves are designed to meet the highest 'A' classification level – that's 1×10^{-6} mg/second/metre, over the temperature range -29 to +180 degrees Celsius, and at standard instrumentation manifold working pressures.

Maximum efficiency

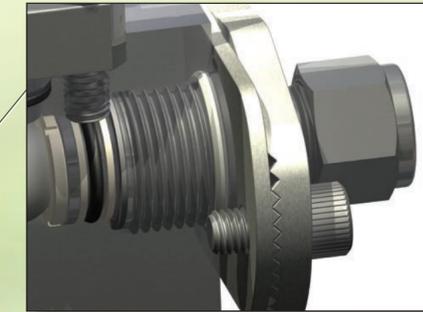
Losing media isn't simply an environmental issue, of course: it's an economic one. It's wasteful, and – inevitably – there's an impact on the bottom line. Our new ISO 15848-compliant valves help to cut waste and eliminate inefficiencies within processes handling hazardous or volatile media.



Bolted bonnet with elastomeric primary seals and graphite firesafe back-up sealing.



Screwed flange entry insert with elastomeric primary seals and metallic joint seal.



Outlet connection available with integral A-Lok / Phastite connection to further reduce leak paths and promote easy, safe and reliable installation.

Fugitive Emission Monoflange range also available.

Fugitive Emission (Fe)

Process Control Solutions

Think Smarter

The ability to minimise emissions is becoming a key differentiator all along the value chain for instrumentation solutions. Parker Instrumentation's ISO 15848-compliant manifolds open up new opportunities for OEMs and engineering houses, making it possible to create the ultra-safe, threadless instrumentation solutions industry is seeking, using standard products.

Choice of solutions

To support suppliers facing pressure to meet new standards while still providing the most cost effective solutions, we've taken high-quality monoflange and ProBloc flange-ended double block and bleed manifolds – already designed for minimal leak paths – and re-engineered the integral needle and ball valves. In both cases, the highly integrated construction reduces dramatically the potential number of leak paths, compared with traditional assemblies fabricated from discrete valve and tubing components – and also delivers impressive savings in space and weight.

Innovative techniques

We've met the demands of ISO 15848 by minimising the number of potential leak paths, and by developing new sealing techniques. So the new ball and needle valves employ a unique combination of complementary sealing methods, using rubber 'O' rings to provide enduring resistance to leaks over repeated actuations, while retaining traditional graphite packaging rings for fire-safe performance.

Minimal losses

The combination of new techniques and innovative manifold design delivers impressive results. For example, if the two ball valves and one needle valve in a 10 mm bore ProBloc meeting ISO 15848 were to leak helium at their maximum permitted rates for a year, the total leakage would be 16.75 cm³. That's less than the 17.16 cm³ occupied by the average walnut . . .

Call: +44 (0) 1271 31 31 31 (Europe) or 256 881 2040 (USA) or visit: www.parker.com/ipd to find out more.