

iFlow[®]
technology



i-Flow Valve

The i-Flow valve is the latest development for inert gas fire suppression systems.

Incorporating patented pressure regulating technology, building on over 20 years of innovation in clean agent alternatives to Halon.

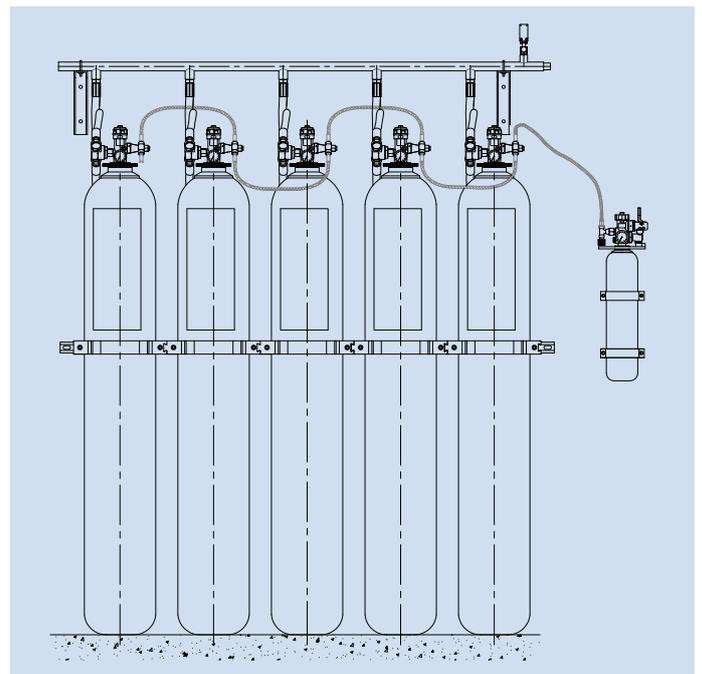
Approvals



Features and Benefits

- VdS and CNPP approved
- Fully meets EN12094-4
- Outlet pressure regulated at 60 bar (nominal)
- Available with INERGEN, IG-55, i3, IG-01, IG-100
- 200 bar and 300 bar technology
- May be used on 80 litre and 140 litre containers
- No orifice plate required
- Operating range -20°C to 50°C
- Patented technology
- Fails safe, valve closes if pipeline pressure rises above 60 bar
- Allows discharge of 95% of container contents in 60 or 120 seconds
- Can be operated electronically, pneumatically or manually
- Manifold may be omitted on systems using 8 or fewer 80 litre containers (when using horizontal check valve)
- On site pressure gauge removal possible
- Manufactured in EU

Typical Layout of the i-Flow System



Pressure Regulating Valve

Unlike other constant flow valves that control the pressure in the discharge pipework by varying the flow through the valve outlet, the i-Flow valve is a fully engineered pressure regulating valve. This means that should there be an unforeseen blockage in the discharge network, by a distribution valve failing to operate (creating a closed section of pipe), the i-Flow valve will close as soon as the pressure reaches 60 bar.

i-Flow systems can therefore safely use lower pressure rated manifolds, pipework and distribution valves than those required by other constant flow systems on the market.

Mechanical Data

Valve material:	valve body-brass
Overall dimensions:	170mm x 77mm
Valve outlet thread:	21.7 DIN 477 male

Functional Data

Safety burst disc rating:	435 bar (minimum)
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Environmental Data

Operating temperature:	-20 °C to +50 °C
Storage temperature:	-20 °C to +50 °C
Relative humidity:	95%

Performance Data

Outlet pressure:	60 bar
Discharge Rate:	95% of container contents in 60 secs

Performance

The i-Flow valve gives a constant regulated outlet pressure of 60 bar.

It discharges 95% of the content of an 80 or 140 litre, 200 or 300 bar container within 60 or 120 seconds (as required by various international standards)

