



Inert gas extinguishing technology

Ad-on part cylinder

Pressure control valve CF-S High Performance



Approvals



- 1) Listed system:
 - Oxeo CF LCP: IG-01, IG-100, IG-541 (UL-File EX26532)
- 2) Part of the system approval:
 - Oxeo CF LCP: IG-01, IG-100, IG-541 (FM23FPUS0179)

SAP designation

part no. 4000395: Pressure control valve CF-S HP

Maintenance

see technical description pressure control valve CF-S HP
part no. 4005759

Designation	Part no.	Weight
Pressure control valve CF-S High Performance	4003160	1.09 kg (2.39 lbs)

Technical data

Extinguishing agent (gaseous)argon (IG-01),
nitrogen (IG-100), IG-55, IG-541
 Working pressure max. 366 bar (5308 psi)
 Statically outlet pressuremax. 66 bar (957 psi)
 Dynamic outlet pressuremax. 60 bar (870 psi)
 Nominal diameter 10 mm (0.39")
 Smallest permissible nozzle diameter at the
 extinguishing agent outlet $\varnothing 3$ mm ($\varnothing 0.12$ ")
 Temperature range:
 - IG-01-20 °C to +50 °C (-4 °F to 122 °F)
 - IG-100, IG-55, IG-541-20 °C to +50 °C (-4 °F to 131 °F)
 Mounting tightening torque 55 ± 5 Nm (40.6 ± 3.7 lbf ft)

Material / Surface

Pressure-bearing components, incl. housingbrass
 Seal materialsEPDM, PUR, PVDF, PTFE, vulcanized fiber

Marking

manufacturing date (YYYY/MM), manufacturer,
 code no. (401B0001, SEP), working pressure (WP 366 bar),
 thread (G3/4, G3/4), flow direction indicator

Application

The pressure control valve is specifically intended for use in stationary inert-gas extinguishing systems with ConstantFlow (CF). The pressure control valve serves to reduce the extinguishing agent container pressure from 200 bar (2900 psi) or 300 bar (4350 psi) to a lower pressure level for downstream system areas.

Note

The pressure control valve should not be considered as a safety accessory as per Directive 2014/68/EU of the European Parliament ("Pressure Equipment Directive"). The usage of the pressure control valve therefore does not replace the usage of suitable protective devices to prevent the exceedance of the maximal permissible pressure of all connected components on the outlet side of the pressure control valve. This applies especially, but not exclusively, to pipelines, fittings, selector valves and nozzles.

Functional description

The control behavior of the pressure control valve (2) maintains a constant system pressure of 60 bar (870 psi) until the storage pressure in the extinguishing agent container (4) falls below this value.

As a result, system components that are designed for a maximum working pressure of 60 bar (870 psi) can be used.

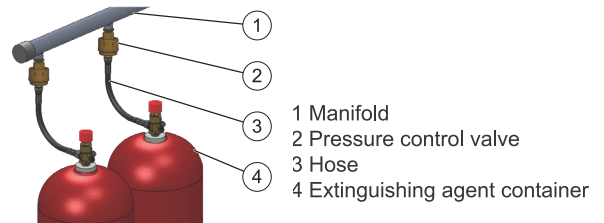


Figure 1: Pressure control valve (typical use case)

Included in delivery

Pressure control valve CF-S High Performance
 Techn. description pressure control valve CF-S (en)....4002119
 Techn. description pressure control valve CF-S (de)....4002118

Dimension drawing

Dimensions in mm (inch)

