

Ci-EXTDS8a, Constant flow regulator for extended discharge

Item numbers covered by his datasheet

306301 Ci-EXTDS8a

General

The Ci-EXTDS8a regulator is an option for installations where a considerable loss of INERGEN is expected after discharge shortening the holding time. By adding the Ci-EXTDS8a with ContinuOxy cylinders to the manifold the holding time can be improved even for rooms with large leakages.

Specifications

Temperature	-20°C to +70°C
Materials	Brass, Stainless steel, Aluminium, Steel
Dimensions	ø38x116mm
Weight	0.5kg
Pressure [MPa]	
Work	40.0 MPa
Proof (burst)	>120.0 MPa
Flow way	
In	ø8.0 (50 mm ²)
Out	Variable ø2.0 to ø8.0
Thread connections	
Inlet	ISO228/1 - G3/8" w. 60° conical face. Male thread
Outlet	ISO228/1 - G3/8" w. 60° conical face. Female thread
Backpressure activation	Yes, if used as intended on a manifold.
Inlet check valve	Yes, the inlet is closed unless a hose is connected
Mounting direction	Any

Marking

Fire Eater logo
 "Ci-EXTDS8a"
 "Inert gas, 40 MPa, -20 to +70°C"
 "Sn 123456-123"
 Arrow + "Flow"



Document:
306301 Ci-EXTDS8a.docx

Category:
Control inert

Id: HDN
Rev:2020.10.02



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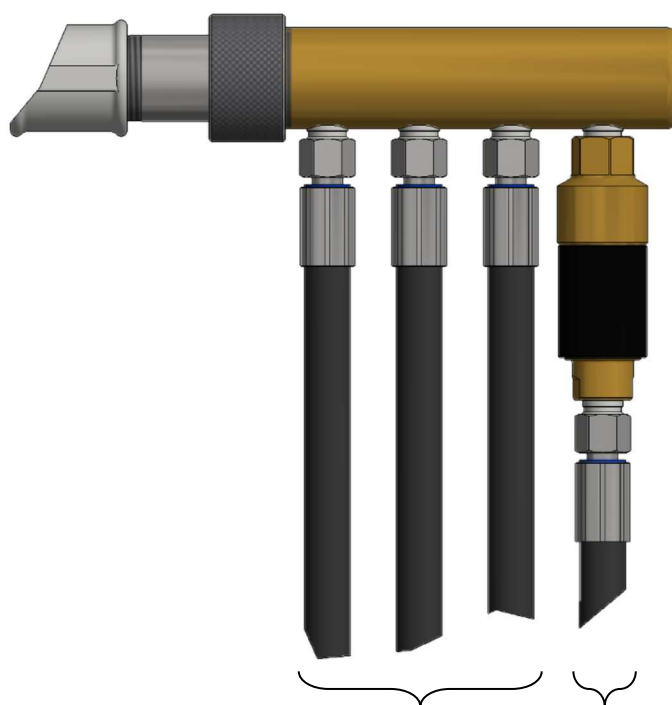
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Installation

Including ContinuOxy in a Fire Eater installation can be achieved by mounting a Ci-EXTDS8a to an extra manifold inlet. One or more cylinders can be connected through the Ci-EXTDS8a depending on the amount of ContinuOxy needed. When the manifold is pressurized by the standard system, the ContinuOxy cylinders will be activated through backpressure. The Ci-EXTDS8a will start adding ContinuOxy to the manifold once the manifold pressure drops below 40Bar. The flow through the Ci-EXTDS is restricted by calibrating the orifice in the outlet. Approximate flow values are listed in Table 1.

The Ci-EXTDS8a is not able to close completely. If valves are installed downstream of the Ci-EXTDS8a the system up to the valve must be rated for cylinder pressure.



INERGEN Discharge
Standard system

ContinuOxy extended discharge

Multiple cylinders can be connected in series using high pressure Tee's

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Flow characteristics

Ci-EXTDS8a Orifice [mm]	Flow [kg/s]	Minimum manifold orifice 10 x Ci_EXTDS8a orifice area [mm]	Number of 80L cylinders in series required for 10 minutes of steady flow
Ø2.0	0.04	Ø6.3	1
Ø3.0	0.10	Ø9.5	2
Ø4.0	0.17	Ø12.7	4
Ø5.0	0.26	Ø15.8	6
Ø6.0	0.38	Ø19.0	9

Table 1

Maintenance

None

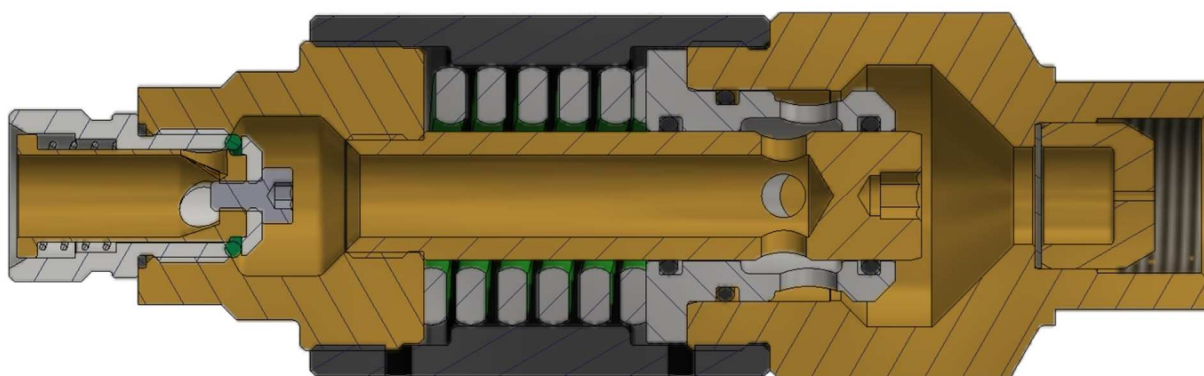
Routine testing

None

Section drawing

Section view in normal non-pressurized position.

There are no serviceable parts in the Ci-EXTDS8a, if the component is dismantled the device will need factory re-calibration.

**Replaceable parts**

None

Standards & approvals

Compliant with Directive 2014/68/EU (PED)

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