

305442 Ci-IM8 Manual Actuator

General

The actuator is used with the Ci-IV8 valve for manual hand actuation of the valve.

The actuator works as a spring loaded force amplifier.

By pushing with a maximum force of 150N on the button a spring is released creating a force of 700N for actuation of the Ci-IV8 valve.

Specifications

Actuation

Method: Hand
Force: 150N (maximum)

Materials:

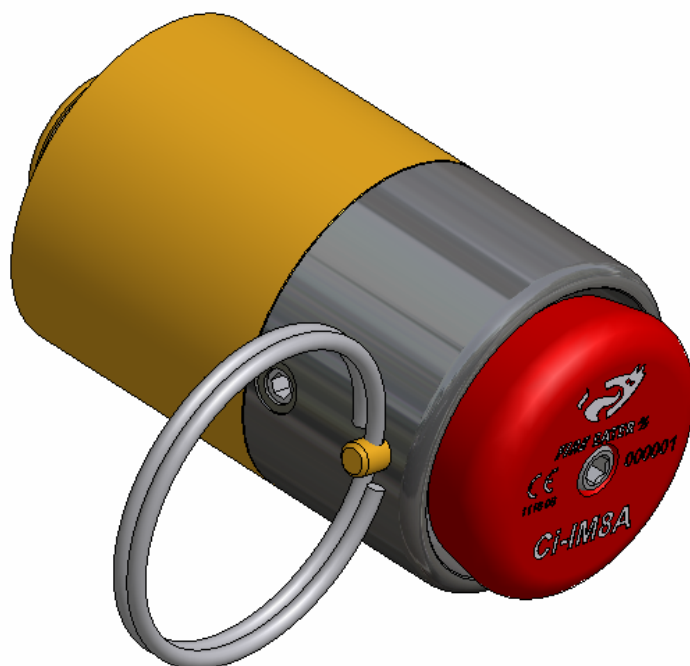
Brass
Stainless steel
Viton
Silicone
Aluminium

Dimensions

D × L: ø40 × 75 (length installed 67 mm)
Weight: 0.4 kg

Markings

Fire Eater Logo, Ci-IM8A, Serial number, CE1116, YY,



Document: 305442 IM8 Manual Actuator.doc

Product:

Inergen®

Id: KP

Rev: 23.12.08



Vølundsvej 17
DK- 3400 Hillerød
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Installation

The Ci-IM8 is screwed into the Ci-IV8 valve mechanical connection and tightened by hand (10Nm). Before fitting the Ci-IM8 it must be inspected that it has not been activated (plunger must be below end surface of the actuator), if it has been activated see "maintenance" for resetting.

The two set screws are loosened and the knob is rotated so the pin is in a convenient position. Only loosen the set screws! The two set screws must be tightened again, do not use excessive torque!

Operating

The seal is broken, the pin is pulled out and the button is pushed by hand to activate the system.

Maintenance

After discharge the Ci-IM8 has to be reset manually.

The procedure for resetting the actuator is:


1. Remove the Ci-IM8 from the Ci-IV8 valve.
2. Screw the Ci-IM8 into FE tool 305495.
Tighten slowly until a low "click" is heard and tighten ½ turn more.
(STOP if a tightening torque of 10Nm is exceeded)
3. The safety pin has to be put back and new seal applied (it may be necessary to rotate the button).
4. Turn back the knob.
Remove the Ci-IM8 from the tool.
5. Check that the plunger does not protrude from the actuator.
6. Refit the Ci-IM8 to the valve as described under Installation.

Routine testing

To verify correct operation the actuator may be activated annually.

To verify sufficient force of the Ci-IM8 a scale may be used to measure the plunger force.

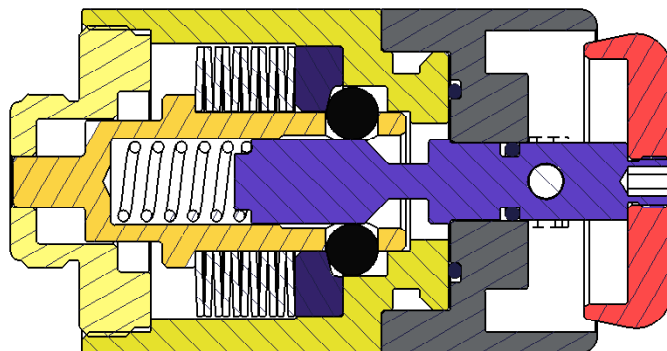
A force of 400N must be required to start pushing back the plunger.

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Section Drawings

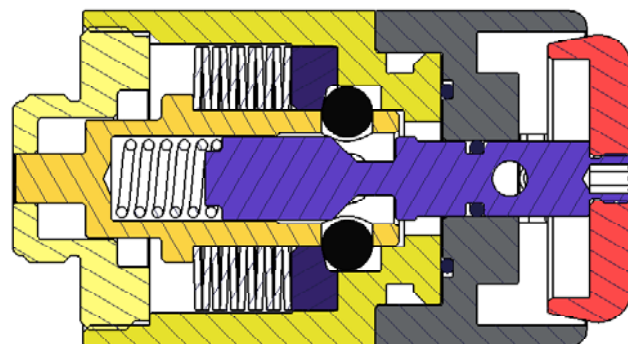
Ci-IM8 in normal "Non activated" position

In the normal position the activation knob is kept in place by the safety pin, so that the activation plunger can not move.



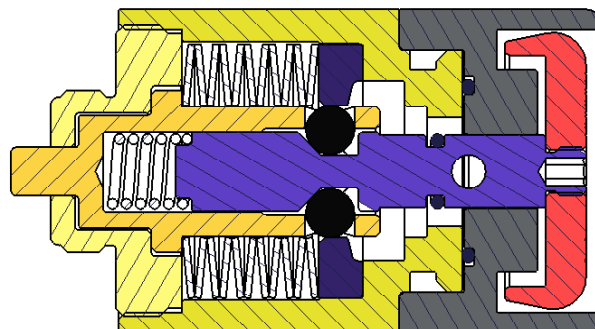
Ci-IM8 in initial activated position (button is pushed in, balls just moving in)

When the pin is removed and the button pushed in, the balls are forced inwards, releasing the springs which deliver the force required to activate the discharge valve.



Ci-IM8 in activated position

With the balls moved in, the plunger is forced out by the springs, it will remain in this position until the plunger is forced back by using the reset tool.



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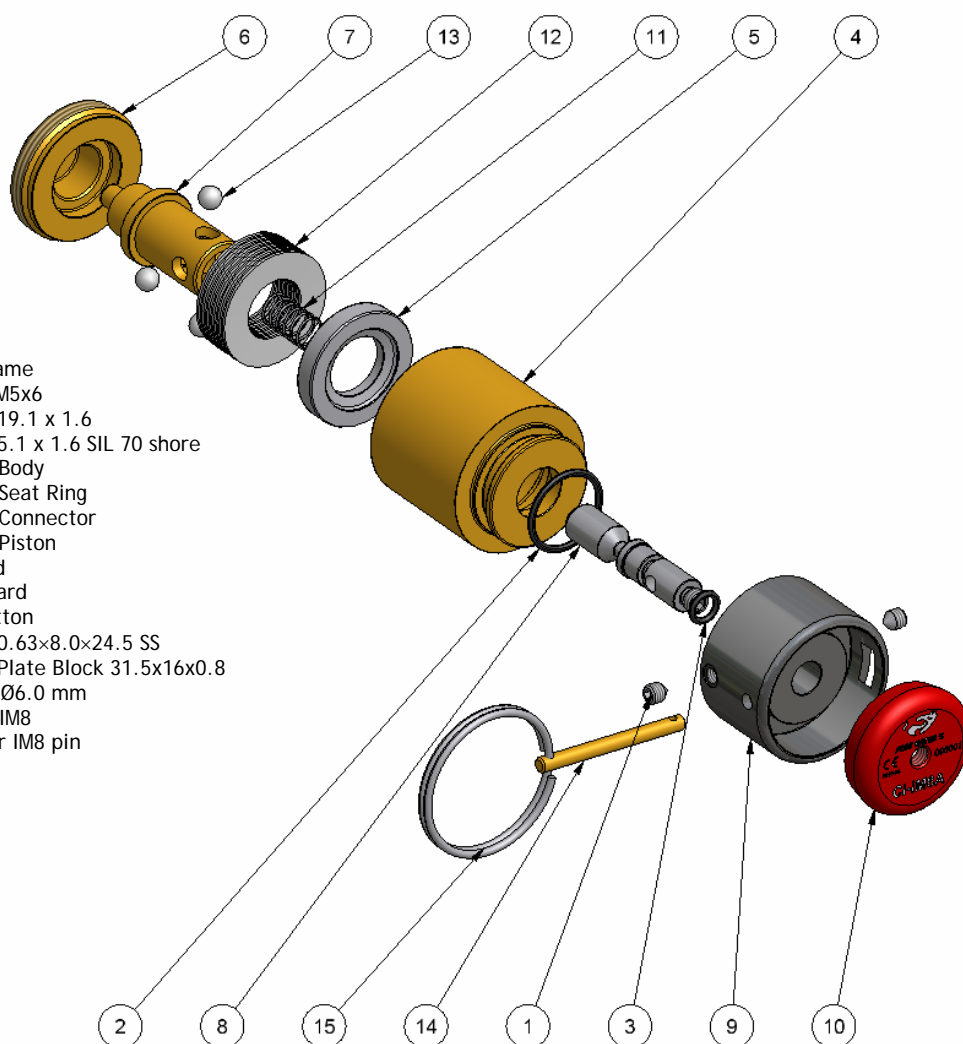
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Exploded view

Pos.	Item no.	Item name
1	212221	Screw M5x6
2	302223	O-ring 19.1 x 1.6
3	302228	O-ring 5.1 x 1.6 SIL 70 shore
4	305050	IMWS8 Body
5	305051	IMWS8 Seat Ring
6	305052	IMWS8 Connector
7	305054	IMWS8 Piston
8	305055	IM8 Rod
9	305056	IM8 Guard
10	305059	IM8 Button
11	305329	Spring 0.63x8.0x24.5 SS
12	305332	Spring Plate Block 31.5x16x0.8
13	305346	Ball SS Ø6.0 mm
14	305351	Pin Ø4 IM8
15	305352	Ring for IM8 pin



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**FIRE EATER** 1/2

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Declaration of conformity & CE certificate



1116

Manufacturer:

Fire Eater A/S
Vølundsvej 14
DK-3400 Hillerød
Denmark

EN12094-4

Container valve assembly

Control Inert IM8 Manual Actuator


Manuel actuator for Control Inert valve family

Testing is possible by removing it from the Ci valve.
Special tools are required for resetting the actuator.

Based upon attached Certificate of conformity, we declare
that the Container valve assembly designated above meets
the provision of Annex ZA of the EN12094-4 standard.

The manual actuator is to be used in combination with Fire
Eater Discharge valves with the Ci designation.

Certification body for this product is
CNPP, B.P. 2265, F-27950 Saint Marcel, www.cnpp.com
CNPP certificate: 1116-CPD-017

Signature: 
Michael Kroneder, Technical manager
Date: 2007-01-25

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Declaration of Performance

Nr. Ci IM8 2014-11

1. Product type identification:

Ci IM8

2. Type identification:

"Ci IM8" and serial number, Logo
CE mark

3. Intended use:

Inert gas Fire suppression system

4. Manufacturer:

Fire Eater A/S
Vølundsvej 14, DK-3400 Hillerød
Denmark

5. NA

6. Assessment system:

System 1

7. Certification body for this product is

CNPP Cert

CNPP certificate: 1116-CPR-017

Test report: CNPP GH 07 0002

8. NA

9. Performance

Product type Manual actuator for Discharge
valve

Operating temp -20 to +70 °C

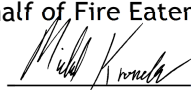
Type of system Inert gas system

Activation force < 150N

Actuator force app 700N

Mounting Any

10. On behalf of Fire Eater

Signature: 

Michael Kroneder, CTO

Hillerød 2014-11-24

Document:

DoP Ci IM8

Text**Category:**

Control inert

Id: MK

Rev:2014.11.24


Vølundsvej 17
DK- 3400 Hillerød
Tel +45 7022 2769
www.fire-eater.com