305448 Ci PA8A Pneumatic actuator

General

The actuator is used with the Ci IV8 valve for additional pneumatic actuation of the valve (this actuator is not to be mistaken for the Ci IV8 built-in pneumatic actuator).

The actuator works as a simple pneumatic piston, where the pressure applied is equivalent to the force on the piston.

The Ci PA8 interface allows for other actuators for the Ci IV8 valve to be placed in conjunction with the Ci PA8 on the Ci IV8 valve.

Specifications

Pressure:

Work:	10 - 400 bar (600N @ 10 bar)
Proof (burst):	> 1200 bar
Max no triggering	2 bar 10 sec

Temperature: -20 to +70°C

Materials: Brass, Stainless steel, PU.

Dimension:

D×L:	ø50 × 44 (installed 36) mm
Weight:	0.55 kg

Markings

Fire Eater Logo, Ci PA8A, Serial number, CE 1116, XX (year of manufacture).

FIRE EATER

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Installation

The Ci PA8 is screwed into the Ci IV8 valve mechanical connection until it reaches the stop, then it is turned back so that one of the inlet connections (1/8" ISO7) is in a proper position, it should never be turned more than 1/2 turn back. A hose must be connected to at least one inlet connection, to avoid accidental unscrewing due to vibrations.

Before fitting the Ci PA8 it must be inspected that it has not been activated (plunger must be flush).
If it has been activated see "Maintenance" for resetting.

After installing the Ci PA8, one additional actuator may be installed behind the Ci PA8.

A maximum of 2 Ci actuators may be mounted on one Ci IV8 valve (i.e. one Ci PA8 plus one other actuator **or** 2 Ci PA8 without any additional actuators).

Operating

External pneumatic pressure is applied to the Ci PA8, which then actuates the Ci IV8 valve.

Maintenance

After discharge the Ci PA8 has to be reset by simply pushing back the piston until it is flush with the body (sub of 0.5mm is acceptable).

Refit the Ci PA8 to the valve as described under "Installation".

Routine testing

To verify correct function the actuator may be activated once a year.
To verify sufficient pressure of the Ci PA8 a pressure gauge may be installed in the pneumatic feed line.

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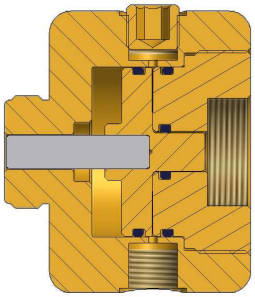
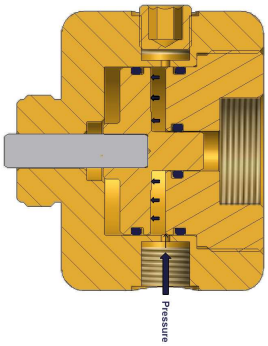
Section drawings

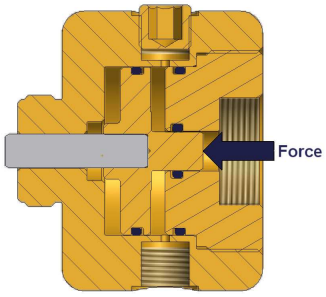
Ci PA8 in normal reset position (not activated)



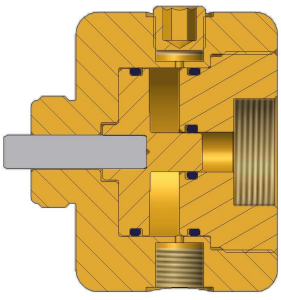
Ci PA8 in initial activated position, pneumatic activation



Ci PA8 in initial activated position, mechanical activation



Ci PA8 in fully activated position



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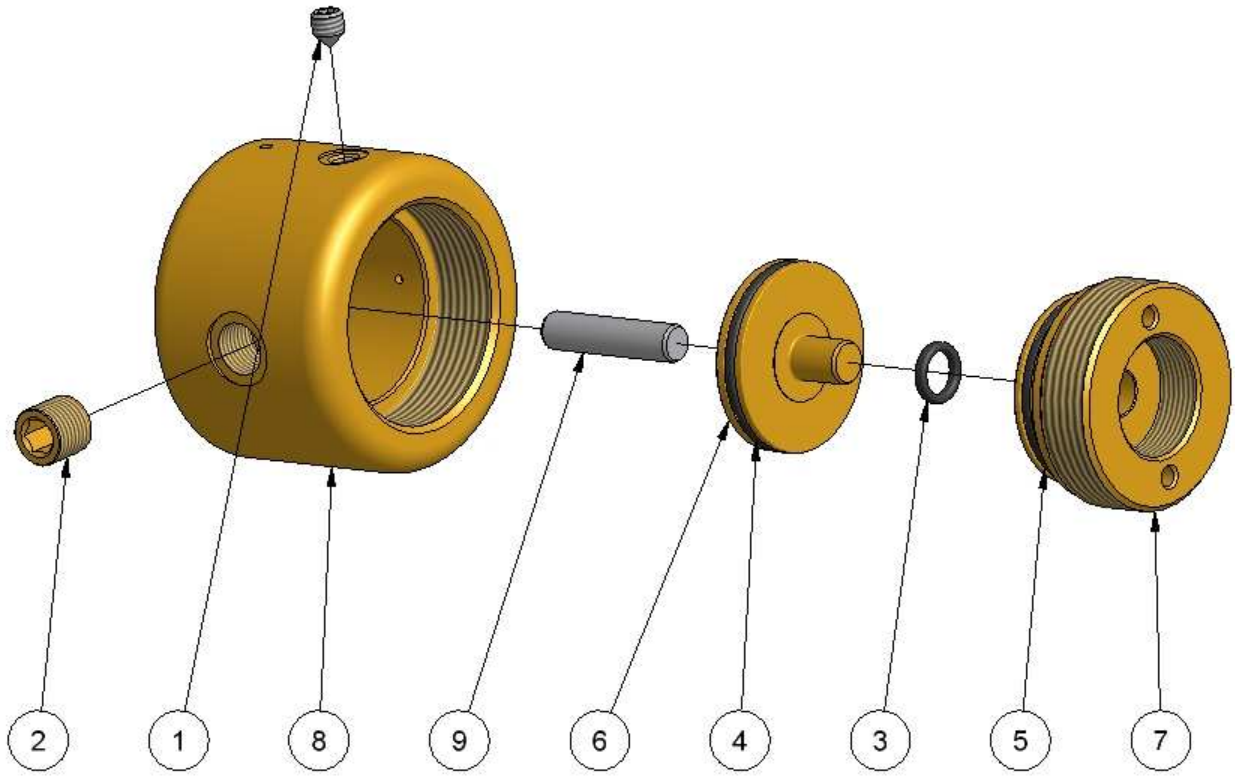
Exploded view

Pos.	Item no.	Item name	Material
1	212221	Screw M5x6	SS
2	302083	Plug 1/8" BSPT	Brass
3	2071162	O-ring 7.1 × 1.6	PU
4	2251162	O-ring 25.1 × 1.6	PU
5	2251162	O-ring 25.1 × 1.6	PU
6	305031	CM PA8 Drive Piston	Brass
7	305020	CM IV8 Act Plug	Brass
8	305030	CM PA8 Body	Brass
9	305032	CM PA8 Rod	SS



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Declaration of conformity & EC certificate (CPD)

CE
1116

Manufacturer:

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

EN12094-4
Container valve assembly and their actuators

Pneumatic Actuator

Work pressure: 10-400 bar

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

The Actuator is to be used in combination with a Fire Eater discharge valve with the Ci designation, and any pressure supply for actuation which can supply sufficient pressure.

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

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Ci PA8 (Pneumatic Activator IV8)

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Construction Product Regulation EN12094-4	Declaration of Performance Applied standards	Ydeevneerklæring Anvendte standarder	Déclaration de performance Normes appliquées	Leistungserklärung Angewandte Normen	Declaracione de prestacione Normas Aplicadas	Deklaracji właściwości użytkowych Zastosowane normy	Prohlášení o vlastnostech Aplikované normy	Декларация Performance Примененные стандарты
	Specifications	Specifikationer	Caractéristiques	Technische Daten	Especificaciones	Dane techniczne	Specifikace	характеристики
INERGEN, ISO V, Fire Eater	Identification	Identifikation	Identification	Identifizierung	Identificación	Identyfikacja	Identifikace	идентификация
Pneumatic Actuator for use on Ci IV8 discharge valve	Intended use	Anvendelsesformål	Utilisation prévue	Anwendungen	Aplicaciones	Aplikacje	Aplikace	Назначение
Fire Eater A/S Vølundsvej 14, DK-3400 Hillerød Denmark	Manufacturer	Producent	Fabricant	Hersteller	Fabricante	Producent	Výrobce	производитель
CNPP Cert 1116-CPR-017 CNPP GH 07 0002 System 1	Authority Certificate Test report	Myndighed Certifikat Testrapport	Autorité Certificate Rapport d'essai	Zertifizierung Zertifikat Test raport	Certificación Certificado Raport Prueba	Certyfikacja Certyfikat Raport testowy	Osvědčení Certifikát Zkušební Raport	сертификация сертификат протокол испытания
-60 to +100 ¤C Na Na 0.55 kg 1.0 to 40.0 MPa >120 MPa Na 1.0 to 40.0 MPa 2 bar for 10sec M20x1.0 Any Na	Temperature Operating Installation Storage Flow way Diameter Area Weight Pressure Work Destructive test pressure Activation Pressure Voltage Current Force No Triggering Max pressure Thread connection Inlet Outlet Accessories Installation Mounting direction Smallest cylinder	Temperatur Brug Installation Opbevaring Lysning Diameter Areal Vægt Tryk Arbejds- Destruktivt prøvningstryk Aktivering Tryk Volt Strøm Kraft Ingen Aktivering Max tryk Gevindtilslutning Inlet Outlet Tilbehør Installation Monterings-retning Mindste beholder	Température d'exploitation Installation Stockage Écoulement Diamètre Aire Poids Pression Travail éclater Activation Pression Tension Courant Force Pas de déclenchement max pression Raccord filetage Prise Sortie Accessoires Installation Sens de montage Le plus petit cylindre	Temperatur Betriebs- Installation Lagerung Flow Weg Durchmesser Areals Gewicht Druck Arbeit platzen Aktivierung Druck Spannung Strom Kraft keine Triggerung Max Presse Gewindeanschlüsse Einlass Ausgang Zubehör Installation Montagerichtung kleinste Zylinder	Temperatura Operativo Instalación Almacenamiento Camino de flujo Diámetro Área Peso Presión Trabajo Burst Activación Presión Voltaje Corriente Fuerza No Disparo Presión Max Conexiones rosca Entrada Salida Accesorios Instalación Dirección de montaje Cilindro más pequeño	Temperatura Operacyjny Instalacja Przechowywanie Sposób przepływu średnica Obszar Waga Ciśnienie Praca Burst Aktywacja Ciśnienie Napięcie Prąd Siła Nie Wyzwalanie Max naciśnij Przyłącza gwintowane Wlot Wylot Akcesoria Instalacja Kierunek montażu Najmniejszy cylinder	Teplota Provozní Instalace Skladování Flow cesta Průměr Rozloha Hmotnost Tlak Práce Roztržení Aktivace Tlak Napětí Energie Síla Ne Spouštění Max lis závitové připojení Vstupní Odtok Příslušenství Instalace Směr montáže Nejmenší válec	Температура операционная установка хранение поток способ диаметр площадь вес давление работа взрыв активация давление напряжение текущий сила нет триггера Макс пресс- Резьбовые соединения вход выход аксессуары Установка направление монтажа Наименьший цилиндра

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Declaration of Performance

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Construction Product Regulation EN12094-4	Declaration of Performance Applied standards	Ydeevneerklæring Anvendte standarder	Prestandadeklaration Tillämpade standarder	Ydeevneerklæring Anvente standarder	Julistus Performance Applied standardit	Prestatieverklaring Toegepaste normen	Dichiarazione di prestazione Norme applicate
	Specifications	Specifikationer	Specifikation	Specifikation			
INERGEN, ISO V, Fire Eater	Identification	Identifikation	Identifiering	Identifikasjon	tunnistaminen	Identifikation	Identificazione
Pneumatic Actuator for use on Ci IV8 discharge valve	Intended use	Anvendelsesformål	Avsedd användning	Tiltenkt bruk	tarkoitettu käyttö	Beoogd gebruik	Applicazioni
Fire Eater A/S Vølundsvej 14, DK-3400 Hillerød Denmark	Manufacturer	Producent	Tillverkare	Produsent	valmistaja	Fabrikant	Fabbricante
CNPP Cert 1116-CPR-017 CNPP GH 07 0002 System 1	Authority Certificate Test report	Myndighed Certifikat Testrapport	Myndighet Certifikat Testrapport	Myndighet Sertifikat Testrapport	sertifiointi todistus Testiraportti	Certificering Certifikat Test raport	certificazione certificato prova Raport
-60 to +100 ¤C	Temperature Operating Installation Storage	Temperatur Drift- Installation- Opbevaring-	Temperatur Drift- Installation Lagring	Temperatur Drifts Installasjon Lagring	Lämpötila käyttö- asennus varastointi	Temperatuur Bedrijfs- Installatie Opslagruimte	Temperature Operative Installazione Immagazzinamento
Na Na	Flow way Diameter Area	Flow Diameter Areal	Mynning Diameter Areal	Flow Diameter Område	Flow tavalla halkaisija alue	Flow weg Diameter Areaal	Flow Diametro Area
0.55 kg	Weight	Vægt	Vikt	Vekt	paino	Gewicht	Peso
1.0 to 40.0 MPa >120 MPa	Pressure Work Destructive test pressure	Tryk Arbejds- Destruktivt prøvningstryk	Tryck Arbets- Destruktivtesttryk	Trykk Arbeid- Destruktivt prøvningstryk	paine työ burst	Druk Werk Burst	Pressione lavoro scoppiare
Na 1.0 to 40.0 MPa	Activation Pressure Voltage Current Force	Aktivering Tryk Volt Strøm Kraft	Aktivering Tryck Spänning Ström Kraft	Aktivisering Trykk Spenning Strøm Kraft	aktivointi paine jännite nykyinen voima	Activering Druk Voltage Stroom Kracht	Attivazione pressione voltaggio corrente forza
2 bar for 10sec	No Triggering Max pressure	Ingen aktivering Max tryk	Ingen aktivering Max tryck	Ingen utløsende Max trykk	ei Triggering max paina	Geen Triggering Max druck	No trigger stampa Max
M20x1.0	Thread connection Inlet Outlet Accessories	Gevindtilslutning Inlet Outlet Tilbehør	Gänganslutning Inlet Outlet Tillbehör	Tråd tilkobling Inlet Outlet Tilbehør	kierreliitokset tuloaukko pistorasia lisälaitteet	Draad verbindingen Inlet Outlet accessoires	Le filettature insenatura presa accessori
Any	Installation Mounting direction	Installation Monteringsretning	Installation Monteringsriktning	Installasjon Monteringsretningen	asennus asennussuunnassa	Installatie Montagerichting	Installazione direzione di montaggio
Na	Smallest cylinder	Mindste beholder	Minsta behållare	Minste beholder	pienin sylinteri	Kleinste houder	Il più piccolo cilindro

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Declaration of Performance

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Construction Product Regulation EN12094-4	Declaration of Performance Applied standards	Toimivusdeklaratsiooni Applied standardid	Deklarācija Performance Lietišķās standarti	Eksploatacinių savybių deklaracijos Taikomoji standartai	Izjava o obavljanju primijenile standarde	Érdekében nyilatkozni Alkalmazott szabványok	Declaração de desempenho normas Aplicadas	Vyhlásenia o parametroch aplikované normy
	Specifications							
INERGEN, ISO V, Fire Eater	Identification	identifitseerimine	identificēšana	identifikacija	identifikacija	azonosítás	identificação	identifikácia
Pneumatic Actuator for use on Ci IV8 discharge valve	Intended use	Kavandatud kasutus	Paredzētā izmantošana	paskirtis	Namjena	rendeltetésszerű használat	uso pretendido	aplikácia
Fire Eater A/S Vølundsvej 14, DK-3400 Hillerød Denmark	Manufacturer	tootja	ražotājs	gamintojas	proizvođač	gyártó	fabricante	Výrobca
CNPP Cert 1116-CPR-017 CNPP GH 07 0002 System 1	Authority Certificate Test report	sertifikaat tunnistus Test report	sertifikācija apliecība testa ziņojums	pažymėjimas pažymėjimas Bandymų ataskaitos	potvrda certifikat izvješće o ispitivanju	hitelesítés bizonyítvány vizsgálati jelentés	certificação certificado relatório de teste	osvedčenia certifikát skúšobné Raport
-60 to +100 ¤C Na Na 0.55 kg 1.0 to 40.0 MPa >120 MPa Na 1.0 to 40.0 MPa 2 bar for 10sec M20x1.0 Any Na	Temperature Operating Installation Storage Flow way Diameter Area Weight Pressure Work Destructive test pressure Activation Pressure Voltage Current Force No Triggering Max pressure Thread connection Inlet Outlet Accessories Installation Mounting direction Smallest cylinder	Temperatuur tegevus- paigaldamine ladustamine Flow viis läbimõõt ala kaal surve töö Burst aktiveerimine surve pinge praegune jõud No lülitusega Max vajutage Teema ühendused sisseviik pistikupesa lisandid paigaldamine Paigaldus suund Väikseim silindri	Temperatūra darba uzstādīšana glabāšana Flow veids diametrs platība svars spiediens darbs Burst aktivizācija spiediens spriegums strāva spēks Nē izraisot Max prese vītņu savienojumi pievads kontaktligzda piederumi uzstādīšana Montāžas virziens mazākais cilindrs	Temperatūra Operacinė montavimas saugojimas srauto būdas skersmuo plotas svoris slėgis darbas Burst aktyvinimas slėgis įtampa dabartinis jėga Nėra suveikimas Maksimalus spaudos Temos jungtys įėjimas anga priedai Montavimas Tvirtinimo kryptis Mažiausias cilindras	Temperatura radni instalacija skladištenje način protoka promjer područje težina pritisak posao Burst aktiviranje pritisak napon struja sila Ne pokreće Maks pritisnite veze temu uvala ispust pribor instalacija Montaža smjer najmanji cilindra	Hőmérséklet üzemeltetési telepítés tárolás flow módon átmérő terület súly nyomás munka Burst aktiválás nyomás feszültség jelenlegi erő nem kapcsolású max nyomja menetes csatlakozás beömlőnyílás kivezetés tartozékok telepítés szerelési irány legkisebb henger	Temperatura Operação instalação armazenamento Abertura Diâmetro área peso pressão trabalho Explosão ativação Pressão Tensão Corrente Vigor Sem Triggering Max imprensa com conexões de rosca entrada saída acessórios instalação sentido de montagem menor cilindro	Teplota prevádzkové inštalácia skladovanie flow cesta priemer plocha hmotnosť tlak práca roztrhnutie Aktivácia tlak napätie Tok sila nie Spúšťanie max lis závitové pripojenie vstupné odtok príslušenstvo inštalácia smer montáže najmenší valec

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Declaration of Performance

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Construction Product Regulation EN12094-4	Declaration of Performance Applied standards	Dikjarazzjoni ta ' Prestazzjoni standards applikati	Declarația de performanță standardele aplicate	Декларация за експлоатационни показатели Приложна стандарти	Δήλωση Απόδοσης Εφαρμοσμένη πρότυπα
	Specifications				
INERGEN, ISO V, Fire Eater	Identification	identifikazzjoni	identificare	Идентифициране	αναγνώριση
Pneumatic Actuator for use on Ci IV8 discharge valve	Intended use	użu maħsub	utilizarea prevăzută	предназначение	προβλεπόμενη χρήση
Fire Eater A/S Vølundsvej 14, DK-3400 Hillerød Denmark	Manufacturer	manifattur	producător	Производител	κατασκευαστής
CNPP Cert 1116-CPR-017 CNPP GH 07 0002 System 1	Authority Certificate Test report	ċertifikazzjoni ċertifikat rapport tat-test	certificare certificat raport de încercare	Сертифициране сертификат Протокол от изпитването	πιστοποίηση πιστοποιητικό έκθεση δοκιμής
-60 to +100 ¤C	Temperature Operating Installation Storage	Temperatura operattiva installazzjoni ħażna	Temperature operare instalare depozitare	Температура експлоатационен монтаж съхранение	Θερμοκρασία λειτουργικά εγκατάσταση αποθήκευση
Na Na	Flow way Diameter Area	mod fluss dijametru qasam	mod Flow diametru zonă	Flow начин диаметър област	τρόπο ροής διάμετρος Περιοχή
0.55 kg	Weight	piż	greutate	тегло	βάρος
1.0 to 40.0 MPa >120 MPa	Pressure Work Destructive test pressure	pressjoni xogħol jinfaqax	presiune muncă burst	налягане работа Burst	πίεση εργασία Burst
Na 1.0 to 40.0 MPa	Activation Pressure Voltage Current Force	attivazzjoni pressjoni vultaġġ kurrenti forza	activarea presiune voltaj current forță	активиране налягане волтаж ток сила	δραστηριοποίηση πίεση τάση ρεύμα δύναμη
2 bar for 10sec	No Triggering Max pressure	ebda attivazzjoni istampa Max	nu Triggering press max	Не Възбуждане Max натиснете	καμία ενεργοποίηση max Τύπου
M20x1.0	Thread connection Inlet Outlet Accessories	konnessjonijiet ħajt inlet outlet aċċessorji	conexiuni filet admisie priză accesorii	Нишка връзки впускателен изход аксесоари	συνδέσεις με σπείρωμα είσοδος έξοδος αξεσουάρ
Any	Installation Mounting direction	installazzjoni direzzjoni immuntar	instalare Direcția de montare	Монтаж Монтаж посока	εγκατάσταση Τοποθέτηση κατεύθυνση
Na	Smallest cylinder	ċilindru iżgħar	Cel mai mic cilindru	Най-малък цилиндър	μικρότερη κύλινδρο

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