

# **TECHNICAL SPECIFICATION**

## ***CCN – Aluminium Nozzle***

**Product Description**

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## **PRODUCT DESCRIPTION**

Goyen's Clamp on Aluminium Nozzle (CAN) range has been designed to improve cleaning system flow performance to clean a wide range of cartridge filters. These products are also designed for simple screw clamp installation to the blowtubes of reverse pulse filter cleaning systems.

## **Typical Applications**

The CAN nozzle is assembled to reverse pulse blowtubes used in cartridge cleaning system. The nozzle inserts that are mounted into the aluminium nozzle have superior hole preparation that provides for an optimized delivery of the cleaning pulse from the blowtube to the cartridge. The Aluminium clamp on nozzles can be prepared with holes to suit most required sizes (up to 22mm (0.87") diameter). Goyen's Go-Co program may be used to predict the required hole sizes for the cleaning system in question.

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## **PRINCIPLE OF OPERATION**

### **Functionality**

Goyen's 20mm (3/4") through to 45mm (1 1/2") nozzles are designed to suit American National Standard schedule 40 blowtubes, commonly used in the design of cartridge filter cleaning systems.

Functional features are as follows:

- Flow straightening through a controlled orifice.
- Secondary air entrainment that supports more air delivery into the cartridge and, therefore, improves performance and efficiency of reverse pulse jet filter cleaning systems.
- Positive securing to the blowtube.

## PERFORMANCE

### Flow Performance

Refer to the Go-Co software for performance predictions for your particular application.

### Pressure Rating

Maximum Working Pressure: 860 kPa (125 psi)

Recommended Working Pressure: 760 kPa (110 psi)

Recommended Maximum Negative Pressure: 1500 Pa ( 6" Wg)

### Temperature Rating

Working Temperature Range:

Standard Operating Temperature -40°C to 80°C (-40°F to 176°F)

### Fluid Media

Dry air or inert gas

### Unit Weight

Product Code	Unit Weight Kg (lbs)
CCN200-CAN-20	0.42 (0.93)
CCN200-CAN-25	0.42 (0.93)
CCN200-CAN-45	0.42 (0.93)
CCN150-CAN-20	0.35 (0.77)
CCN150-CAN-25	0.35 (0.77)
CCN150-CAN-45	0.35 (0.77)
CCN100-CAN-20	0.32 (0.71)
CCN100-CAN-25	0.32 (0.71)
CCN100-CAN-45	0.32 (0.71)

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## **PRODUCT VARIATIONS**

### **Connection Types**

3/4" schedule 40 steel pipe	+CCN200-CAN-20 +CCN150-CAN-20 +CCN100-CAN-20
1" schedule 40 steel pipe	+CCN200-CAN-25 +CCN150-CAN-25 +CCN100-CAN-25
1 1/2" schedule 40 steel pipe	+CCN200-CAN-45 +CCN150-CAN-45 +CCN100-CAN-45

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## **CONSTRUCTION**

### **Body**

#### **Aluminium Nozzle**

Pressure Die Cast Aluminium CA313

Specification standards:

Australia	CA313
British	LM24
European	AlSi8Cu3Fe
AL Association Alloy	A380.0

#### **CCN Diffuser**

Injection molded Nylon 6

#### **Nozzle Insert**

Glass filled nylon

#### **Strap Assembly**

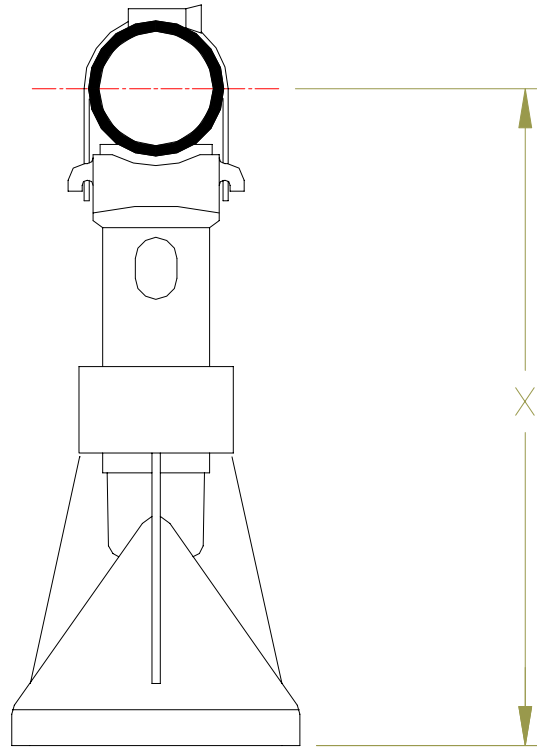
304 Stainless Steel

#### **Pipe Seal**

Nitrile

**DIMENSIONAL DETAILS**

**Envelope Size**



**Fitted Heights:**

Product Code	Dimension X	Dimension Y	Cartridge Internal Diameter
	mm (inches)	mm (inches)	mm (inches)
CCN200-CAN-20	224 (8.82)	30-80 (1.18-3.15)	175+ (7+)
CCN200-CAN-25	228(8.98)	30-80 (1.18-3.15)	175+ (7+)
CCN200-CAN-45	236 (9.29)	30-80 (1.18-3.15)	175+ (7+)
CCN150-CAN-20	199 (7.83)	30-80 (1.18-3.15)	101-175 (4-7)
CCN150-CAN-25	203 (7.99)	30-80 (1.18-3.15)	101-175 (4-7)
CCN150-CAN-45	211 (8.31)	30-80 (1.18-3.15)	101-175 (4-7)
CCN100-CAN-20	155 (6.10)	30-80 (1.18-3.15)	60-100 (2.4-4)
CCN100-CAN-25	159 (6.26)	30-80 (1.18-3.15)	60-100 (2.4-4)

## Mounting Details

### Nozzle Assembly Mounting Hole Detail

Product Code	Schedule 40 Blowtube Diameter mm (inches)	Blowtube Spigot Location Hole Diameter mm (inches)	Maximum Drilled Nozzle Diameter mm (inches)
CCN200-CAN-20	26.7 (1.05)	16.0 (0.63)	16.0 (0.63)
CCN200-CAN-25	33.4 (1.32)	22.0 (0.87)	18.0 (0.71)
CCN200-CAN-45	48.3 (1.90)	26.0 (1.02)	22.0 (0.87)
CCN150-CAN-20	26.7 (1.05)	16.0 (0.63)	16.0 (0.63)
CCN150-CAN-25	33.4 (1.32)	22.0 (0.87)	18.0 (0.71)
CCN150-CAN-45	48.3 (1.90)	26.0 (1.02)	22.0 (0.87)
CCN100-CAN-20	26.7 (1.05)	16.0 (0.63)	16.0 (0.63)
CCN100-CAN-25	33.4 (1.32)	22.0 (0.87)	18.0 (0.71)
CCN100-CAN-45	48.3 (1.90)	26.0 (1.02)	22.0 (0.87)

Refer to the Operating Guide for detailed assembly instructions.

**HOW TO ORDER**

Product Code	Pipe Size mm (inches)	Cartridge Internal Diameter mm (inches)
CCN200-CAN-20	20 (3/4)	175+ (7+)
CCN200-CAN-25	25 (1)	175+ (7+)
CCN200-CAN-45	45 (1 1/2)	175+ (7+)
CCN150-CAN-20	20 (3/4)	101-175 (4-7)
CCN150-CAN-25	25 (1)	101-175 (4-7)
CCN150-CAN-45	45 (1 1/2)	101-175 (4-7)
CCN100-CAN-20	20 (3/4)	60-100 (2.4-4)
CCN100-CAN-25	25 (1)	60-100 (2.4-4)
CCN100-CAN-45	45 (1 1/2)	60-100 (2.4-4)

Nylon insert should be order separate to CAN assemblies

**For operating temperatures between -40°C to 80°C (-40°F to 176°F)**

Product Code	Nozzle Description	Product Code	Nozzle Description
GFN-B	Blank Nylon Nozzle	GFN-13	13 mm Nylon Nozzle
GFN-4	4 mm Nylon Nozzle	GFN-14	14 mm Nylon Nozzle
GFN-5	5 mm Nylon Nozzle	GFN-15	15 mm Nylon Nozzle
GFN-6	6 mm Nylon Nozzle	GFN-16	16 mm Nylon Nozzle
GFN-7	7 mm Nylon Nozzle	GFN-17	17 mm Nylon Nozzle
GFN-8	8 mm Nylon Nozzle	GFN-18	18 mm Nylon Nozzle
GFN-9	9 mm Nylon Nozzle	GFN-19	19 mm Nylon Nozzle
GFN-10	10 mm Nylon Nozzle	GFN-20	20 mm Nylon Nozzle
GFN-11	11 mm Nylon Nozzle	GFN-21	21 mm Nylon Nozzle
GFN-12	12 mm Nylon Nozzle	GFN-22	22 mm Nylon Nozzle