

Technical Specification

GOCO Nozzle [Aluminium] (1" and 1.5" Pipe)



Description

Goyen's range of nozzles measurably increase developed pressures in filters during reverse pulse cleaning by balancing the flow through all holes along the blowtube, ensuring that the pulse jet is directed fully into the filters, and minimising the pressure drop through the blowtube holes. Goyen's nozzles ensure effective cleaning is achieved at An/AP (total blowtube hole area/blowtube cross-sectional area) values up to 1.5, extracting maximum pulse performance from the diaphragm valves. Typical systems not using the Goco nozzle perform at 0.5 to 0.8.

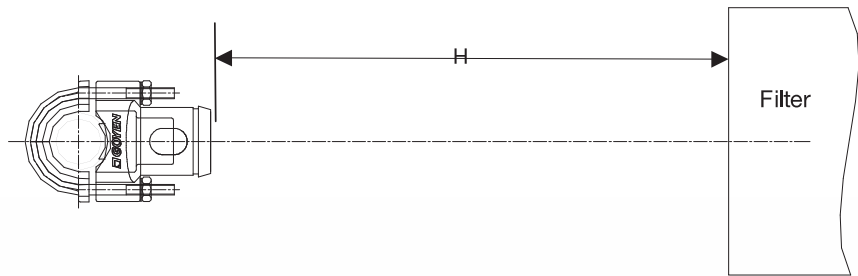
Suitable for

1" and 1.5" pipe diameters in reverse pulse jet filter cleaning applications and its variations including bag filters, cartridge filters, ceramic filters, and sintered metal fibre filters.

** Please Note: Not intended for use in Gas Turbine applications*

Installation

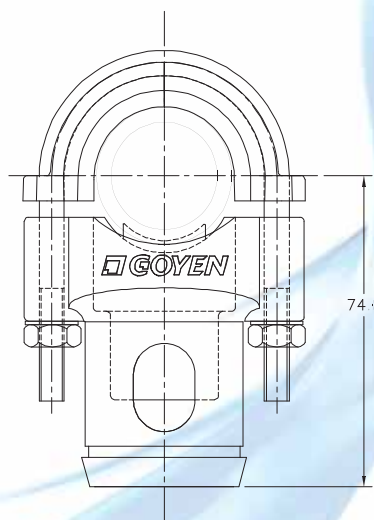
For best performance, $H = (\text{Ø Filter} - 48) / 0.353$ (mm) or $H = (\text{Ø Filter} - 1.88) / 0.353$ (inches). Prepare $\text{Ø}20\text{-}21\text{mm}$ ($\text{Ø}0.78\text{-}0.83\text{"}$) hole in the blowtube for VNA-25C and Prepare $\text{Ø}27\text{-}28\text{mm}$ ($\text{Ø}1.06\text{-}1.10\text{"}$) hole in the blowtube for VNA-45C.



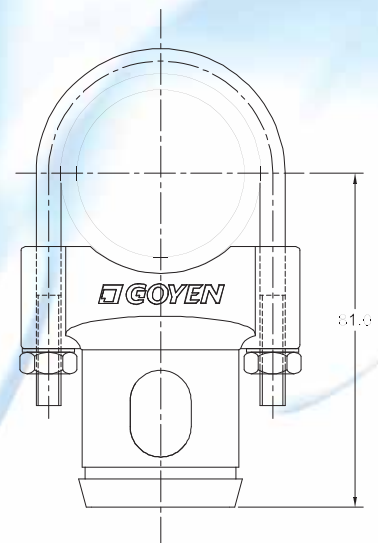
Dimensions

(Dimensions in mm and [inches])

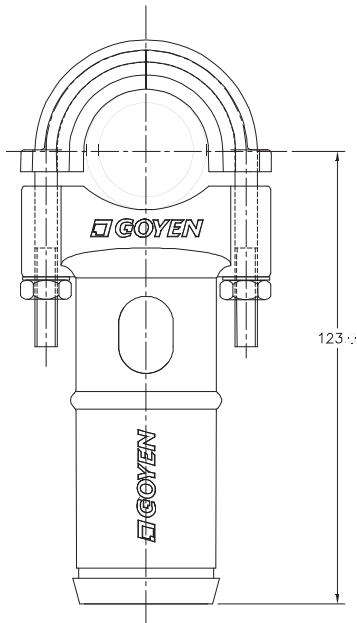
Item	Mass Kg (lbs)	Item	Mass. Kg (lbs)
VNA25C-50	0.175 (0.366)	VNA25C-100	0.220 (0.485)
VNA45C-50	0.160 (0.353)	VNA45C-100	0.205 (0.452)
AL25-B/BD# & AL45-B/BD#	0.055 (0.121)	REG-#	0.020 (0.044)



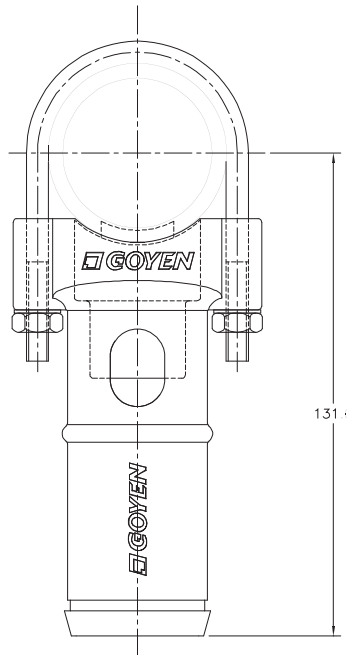
VNA25C-50
To suit 1" schedule 40 pipe.



VNA45C-50
To suit 1.5" schedule 40 pipe.



VNA25C-100
To suit 1" schedule 40 pipe.



VNA45C-100
To suit 1.5" schedule 40 pipe.

Order Code and Characteristics

Diecast Nozzles

Code	Description	Material
VNA25C-50	Diecast venturi nozzle assembly to suit 1" pipe, short barrel.	Body and saddle: diecast aluminium Clamp, nuts & washers: nickel plated mild steel
VNA25C-100	Diecast venturi nozzle assembly to suit 1" pipe, long barrel.	Body and saddle: diecast aluminium Clamp, nuts & washers: nickel plated mild steel
VNA45C-50	Diecast venturi nozzle assembly to suit 1.5" pipe, short barrel.	Body and saddle: diecast aluminium Clamp, nuts & washers: nickel plated mild steel
VNA45C-100	Diecast venturi nozzle assembly to suit 1.5" pipe, long barrel.	Body and saddle: diecast aluminium Clamp, nuts & washers: nickel plated mild steel

Nozzle Inserts

Code	Description	Material	Temperature Ranges °C °(F)
AL25-B	Diecast nozzle insert to suit VNA25 series. Insert orifice to be drilled by customer. No seals required.	Diecast aluminium	-60 (-76) to 400 (752)
AL25-BD#	Diecast nozzle insert to suit VNA25 series. Insert comes pre drilled by the factory to the size specified by #. (#=4mm to 18mm)No seals required.	Diecast aluminium	-60 (-76) to 400 (752)
AL45-B	Diecast nozzle insert to suit VNA45 series. Insert orifice to be drilled by customer.No seals required.	Diecast aluminium	-60 (-76) to 400 (752)
AL45-BD#	Diecast nozzle insert to suit VNA45 series. Insert comes pre drilled by the factory to the size specified by #. (#=4mm to 22mm)No seals required.	Diecast aluminium	-60 (-76) to 400 (752)
REG-#	Plastic nozzle insert with rubber seal. Suits both VNA25 and VNA45 series. (#=4mm to 22mm)	Insert: PA-6 30% glass filled.Seal: Nitrile	-40 (-40) to 80 (176)

To order specify nozzle and nozzle insert codes separately. For example:
VNA25C-50 and REG-14 for a short nozzle to suit a 1" pipe with a 14mm plastic insert.
VNA45C-100 and AL45-BD10 for a long nozzle to suit a 1.5" pipe with a 10mm aluminium insert.
Nozzle sizes can be optimised using Goyen's GOCO software. Contact your local Goyen representative.