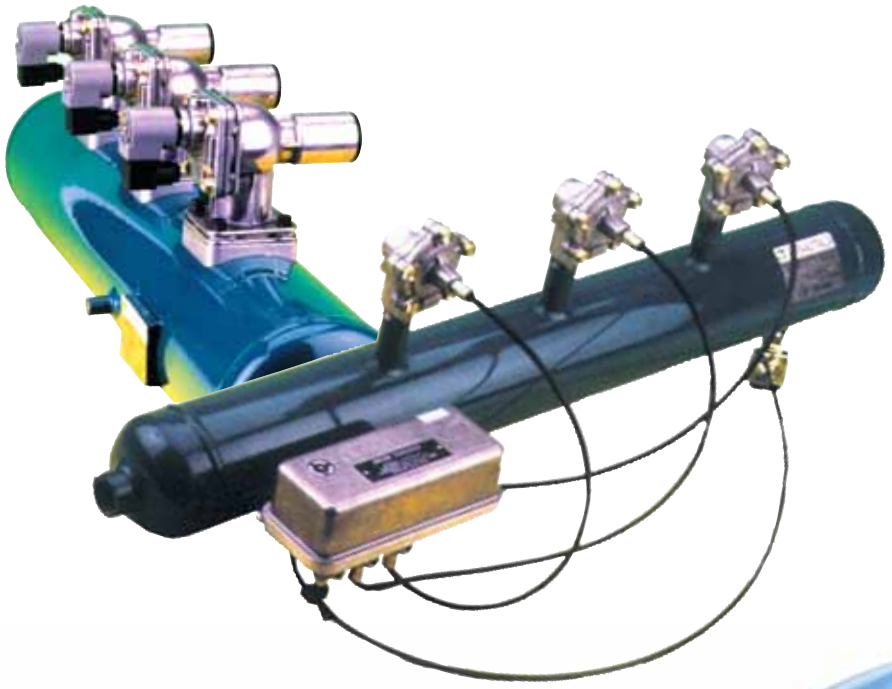
GOYEN



Header Tank Solutions

Innovative Environmental Solutions

tyco Flow Control | Environmental Systems

Description

Goyen manufactures a wide range of custom built header tanks for pulse-jet dust collector filters, complying with the following European Directives: CEE 87/404 and 90/488 and have fulfilled the conditions required to carry a CE approval. Header tanks are certified for a maximum working pressure of 7,5 bar and are supplied with a test certificate.

Goyen header tanks are available in the following diameters: 5", 6", 8" and 10". The tank length and distance between valves are manufactured according to project requirements and CE regulations, however, we recommend tank lengths below 3 metres for ease of handling and installation. If a larger volume of compressed air is required, Goyen can provide a solution which connects several smaller tanks together.

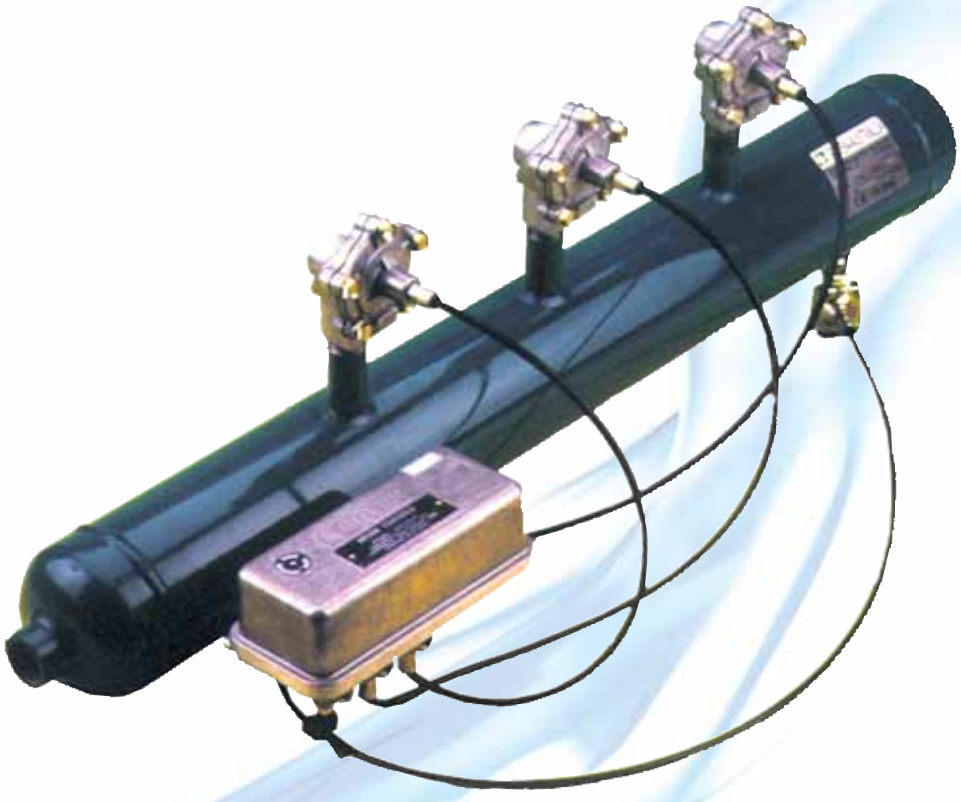
For optimum header tank performance, it is recommended that the compressed air used should be filtered, and dried.

Suitable for

Dust collector applications, in particular for reverse pulse jet filter cleaning and its variations including bag filters, cartridge filters, envelope filters, ceramic filters, and sintered metal fibre filters.

Types of Solution

Header tanks can be manufactured and supplied with the Goyen valves on the following pages.



T Series

The T series valve as shown below is screwed directly onto threaded pipe stubs welded directly on to the header.

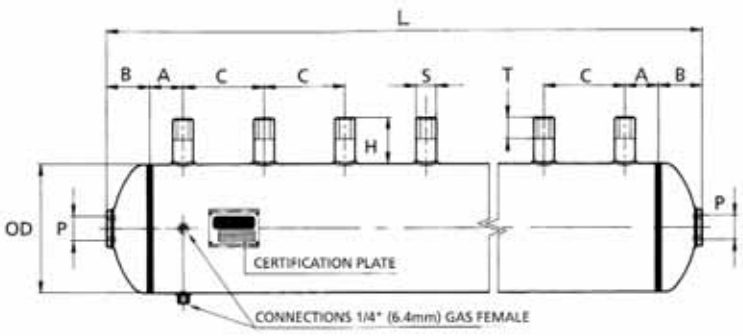
Valve Model	Min. Header Dia. Inches	Pipe/Orifice Ins	mm	CV	KV
CA 20T RCA20T	4	3/4	20	14	12
CA25T RCA25T	5	1	25	24	20.6
CA35T RCA35T	5	1 ½	40	42	36.1
CA45T RCA45T	6	1 ½	40	53	46.4
CA50T RCA50T	8	2	50	88	75.6
CA62T RCA62T	8	2 ½	62	106	91.2
CA76T RCA76T	10	3	76	167	143.6

Note:

Header length and diameter must provide sufficient air capacity to meet the required air flow through the nozzles on the blow tube. This capacity can be established by using the Go-Co sizing programme

T Series

RCA model



CA Model

L = 2A + 2B + C (N-1)
N = No of Connections
C = Distance between connections - Refer to installation instructions for minimum dimensions
Centres (C) to be set by designer
Tanks are painted in Goyen Green (PMS 349/RAI 6029) or standard primer.

DD Series

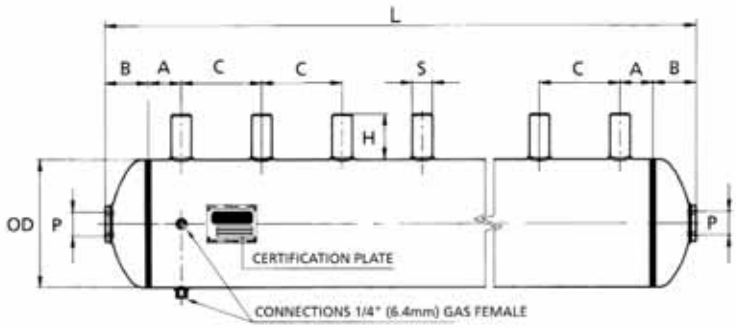
DD series valves feature a coupling nut which is tightened after positioning the valve onto a straight pipe stub welded to the header

Valve Model	Min. Header Dia **Inches	Pipe/Orifice Size Ins	mm	CV	KV
CA 20DD/RCA20DD	4	3/4	20	14	12
CA25DD/RCA25DD	5	1	25	24	20.6
CA45DD/RCA45DD2	6	1 1/2"	40	53	46.5

DD Series

RCA model

Special Note: DD' compression coupling connectors are designed as connection seals only and should not be used to physically restrain blowtubes or header.



CA Model

Dresser Spanner

L = 2A + 2B + C (N-1)
N = No of Connections
C = Distance between connections
Centres (C) to be set by designer
Tanks are painted in Goyen Green (PMS 349/RAI 6029) or standard primer.

Product Characteristics for T and DD Series

Nom (ins)	OD (mm)	P	A	B	S	H	T
4"	114.3	1"	40	50	3/4"	85	40
5"	141.3	1"	40	50	1"	85	40
6"	168.3	1"	40	50	1 1/2"	85	40
8"	219.1	1 1/2"	40	70	2"	85	40
10"	273.0	2"	65	100	2 1/2 "	85	40
					3"	100	50

Note:

Header length and diameter must provide sufficient air capacity to meet the required air flow through the nozzles on the blow tube. This capacity can be established by using the Go-Co sizing programme

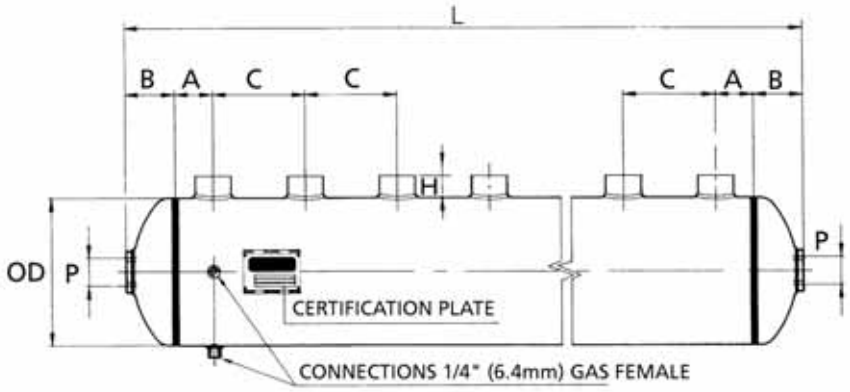
FS Series

FS headers with welded flanges are not CE marked as the Goyen flange is non standard. FS headers with camlock flanges can be supplied CE marked.

Valve Model	Minimum Header Diameter		Pipe/Orifice Size		CV	KV
	Camlock	Stub/Flat	Ins	mm		
CA25FS/RCA25FS	6"	All	1	25	24	20.6
CA45FS/RCA45FS	6", 8", 10"	All	1 1/2"	40	53	46.5

FS Series

CA model



L = 2A + 2B + C (N-1)
N = No of Flanges
C = Distance between flanges
Centres (C) to be set by designer
Tanks are painted in Goyen Green (PMS 349/RAI 6029) or standard primer
(H) Dependent on flange type used

Nom (ins)	OD (mm)	P+	A	B
4"	114.3	1"	40	50
5"	141.3	1"	40	50
6"	168.3	1"	40	50
8"	219.1	1 1/2"	40	70
10"	273.0	2"	65	100

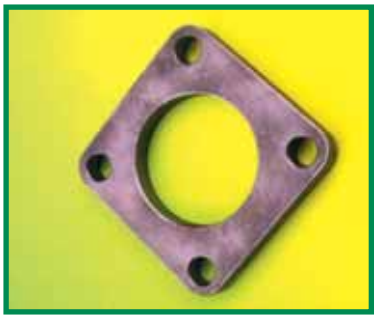
Notes:

+ header inlet should be capable of supplying sufficient air capacity to suit valve requirement

Header length and diameter must provide sufficient air capacity to meet the required air flow through the nozzles on the blow tube. This capacity can be established by using the Go-Co sizing programme

FS Series - Flanges

The high flow performance valve with a flanged inlet and slide outlet can be mounted on a header tank using one of the following header mount flanges. There are two optional header mount flanges as shown below:



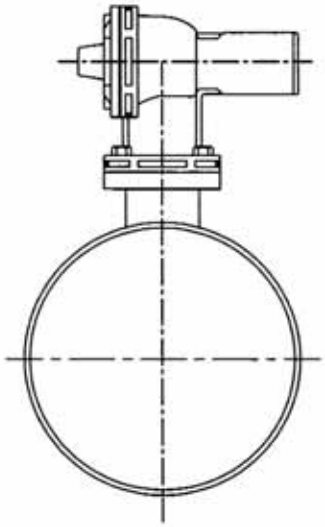
A

B

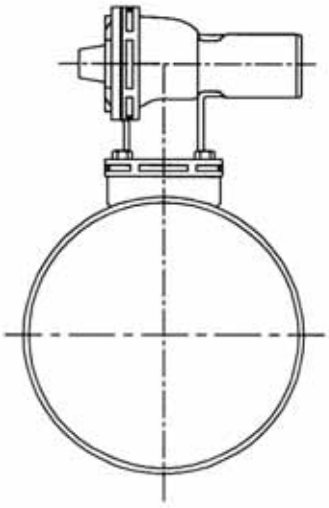
A. The flat welded flange allows mounting to a stub pipe. It is available to suit 25FS and 45FS valves.

B. Goyen's Camlock flange (patent applied for) provides fast, accurate installation of FS valves to round header tanks and is available for 25FS valves to fit 6" (168mm) round header tanks and for 45 FS valves to fit 6" (168mm), 8" (219mm) and 10" (272mm) headers. Prepare inlet flange and blowtube pipes to suit valve specification. Avoid installing valves underneath the tank.

Cross Sections of Alternate Flange Installations



Stub Flange or Welded Flat Flange



Camlock Flange or Pressed Metal Flange

How To Order Your Goyen Header Tank

The tank volume must be proportional to the output capacity of the installed diaphragm valve:

- Choose your Goyen diaphragm valve, according to needs (see diaphragm valve product brochures)
- Define tank length
- Write down the tank code

Order Code

HT	6	0	FS	R	45	V12	3	20	A	P

HEADER TANK
HT-Header Tank
HT

TANK DIAMETER
4 = 4" 100 mm
5 = 5"125 mm
6 = 6"168 mm
8 = 8" 200 mm
10=10" 250m m
4 5 6 8 10

TANK STUB THREAD TYPE
0 = no thread
1 = NPT
2 = R (BSP) ISO 7/1
3 = G (BSP) ISO 228/1
4 = Welded Flange
5 = Camlock Flange
6 = MM valve holes
0 1 2 3 4 5 6

TYPE OF DIAPHRAGM VALVE
N = No valves fitted
T = Threaded connection
DD = Double dresser connection
FS = Flange/Slide connection
N T DD FS

VALVE OPERATOR
R = RCA (Remote)
C = CA (Integral)
R C

VALVE SIZE

20 = ¾" 20 mm	20
25 = 1" 25 mm	25
45 = 1 ½" 45 mm	45
50 = 2 ½" 62 mm	50
62 = 2 ½" 62 mm	62
76 = 3" 76 mm	76

PRESSURE GAUGE
P = with pressure gauge
O = without pressure gauge
P O

AUTO DRAIN VALVE
A = with auto drain
B = without auto drain
A B

VALVE CENTRES *
8 = 3" 75 mm
10 = 4" 100 mm
12 = 5" 125 mm
15 = 6" 150 mm
18 = 7" 175 mm
20 = 8" 200 mm
22 = 9" 225 mm
25 = 10" 250 mm
8 10 12 15 18 22 25
* As recommended by the designer. For special requirements, please enclose a drawing

ENCLOSURE SIZE
(for remote valves only)
0 = No
1 = 5 pilot valve enclosure
2 = 6 pilot valve enclosure
3 = 8 pilot valve enclosure
4 = 12 pilot valve enclosure
0 1 2 3 4

NUMBER OF VALVES
V12 = number of diaphragm valves on header tank – maximum 12
V1 to V12

GOYEN

Australia

Head Office
Goyen Controls Co Pty Ltd
268 Milperra Road
Milperra, NSW 2214

Telephone: 1800 805 372
Facsimile: 1300 658 799

Queensland
Telephone: 1800 805 372
Facsimile: 1300 658 799

Victoria
Telephone: 1800 805 372
Facsimile: 1300 658 799

South Australia
Telephone: 1800 805 372
Facsimile: 1300 658 799

Western Australia
Telephone: 1800 805 372
Facsimile: 1300 658 799

Asia

Goyen Controls Co Pty Ltd
Shanghai Representative Office
1209 Greenland Business Centre
1258 Yu Yuan Road
Shanghai PC200050
CHINA

Telephone: +86 21 5239 8810
Facsimile: +86 21 5239 8812

Goyen Controls Co Pty Ltd
73-M Jalan Mega Mendung
Kompleks Bandar OUG
58200 Kuala Lumpur MALAYSIA

Telephone: +60 37 987 6839
Facsimile: +60 37 987 7839

Office: Singapore
Tel/Facsimile: +65 6457 4549

USA

Goyen Valve Corporation
1195 Airport Road
Lakewood
New Jersey 08701
USA

Telephone: +1 732 364 7800
Facsimile: +1 732 364 1356

Europe

Goyen Controls Co UK Ltd
Unit 3B Beechwood
Chineham Business Park
Basingstoke, Hampshire, RG24 8WA
UNITED KINGDOM

Telephone: +44 1256 817 800
Facsimile: +44 1256 843 164

Tyco Umwelttechnik GmbH
Im Petersfeld 6
D-65624 Altendiez
GERMANY

Telephone: +49 6432 95299 0
Facsimile: +49 6432 95299 24

Mecair S.r.l.
Via per Cinisello 97
20054 Nova Milanese
Milano,
ITALY

Telephone: +39 0362 3751
Facsimile: +39 0362 367279

www.cleanairsystems.com

CAS HTanks Rev6 5/09