

TRIMEC

TRIMEC

TRIMEC aims at becoming a sole stop source of a complete product range for end users and OEM dust collector filter manufacturers, for:

- Diaphragm valves specifically designed to ensure high flow rate with a very fast opening time
- TRIMEC unique patented "Total immersion" header tanks
- Electronic equipments for accurate and flexible control of the main functions of a cleaning cycle in dust collector filters
- TRIMEC unique patented "Domino" system.

All the products are designed and manufactured in order to offer:

- Maximum efficiency and reduce operating costs
- Corrosive resistance and minimum wear of the components
- Electronic controls of all the main functions of the process with microprocessor sequencers, economizers with differential pressure, leak detectors, malfunction alarms.

Product Range

SECTION A

Patented and certified header tanks according to European standards PED 97/23/CE, ATEX 94/9/CE

A1) Total Immersion header tanks complete with bulkhead connectors

A2) Header tanks with threaded connections (**TF Series**)

SECTION B

Pulse valves with threaded connections

- with remote pneumatic control
- with solenoid pilot valve

SECTION C

Pilot solenoid valve enclosures for remote control

SECTION D

Electronic controls
Leak detectors

SECTION E

Header tanks “Domino” for sequential pneumatic cleaning

SECTION F

Electronic controls for “Domino” system
Filter/reducer units

TRIMEC S.r.l. - Via Gramsci, 57 - 20032 CORMANO (Milano) - Italy
Phone +39 02 66302616 - Fax +39 02 66302638
info@trimecvalves.com - www.trimecvalves.com

SECTION

A

HEADER TANKS WITH BULKHEAD CONNECTORS

CERTIFIED PED 97/23/CE - ATEX 94/9/CE

A1

“Total Immersion” header tanks
with bulkhead connectors

A2

Header tanks with threaded connections
(TF Series)

A - HEADER TANKS WITH BULKHEAD CONNECTORS

CERTIFICATIONS: PED 97/23/CE - ATEX 94/9/CE

A1

“TOTAL IMMERSION” HEADER TANKS WITH BULKHEAD CONNECTORS



HOW THE ORDER

TOTAL 6 P 02450 N10 P150

TOTAL = Total immersion
STF = with threaded pipe stubs

Tank diameter (inches)

6" = (valve size **1"**)
8" = (valve size **1"1/2"**)
10" = (valve size **2"**)

P = Integral solenoid pilot
R = Remote solenoid pilot

Standard Voltages

02450 = 24V 50 Hz
11050 = 110V 50 Hz
22050 = 220V 50 Hz
024DC = 24V cc

Number of valves

Valve pitch

Notes

TOTAL IMMERSION header tanks have the following standards characteristics:

- 1) Bulkhead connectors integrated with the blow tube
- 2) Round end caps
- 3) Interconnections between the tank diameter and the valve size as follows:

<u>tank diameter</u>	<u>valve size</u>
6"	1"
8"	1"1/2"
10"	2"

Available on request:

- Customized tanks
- Blow tube without coupling connectors
- Flat end caps

The identification code **TOTAL 6P 02450 N10 P150** stands for:

- **TOTAL 6** . . . Total Immersion header tank,6" inches diameter, with integral couplingconnectors
- **P 022450** . . . Valve with integrated solenoid pilot,supply voltage 24V-50Hz
- **N10** 10 diaphragm valves
- **P150**Distance between valves:150 mm

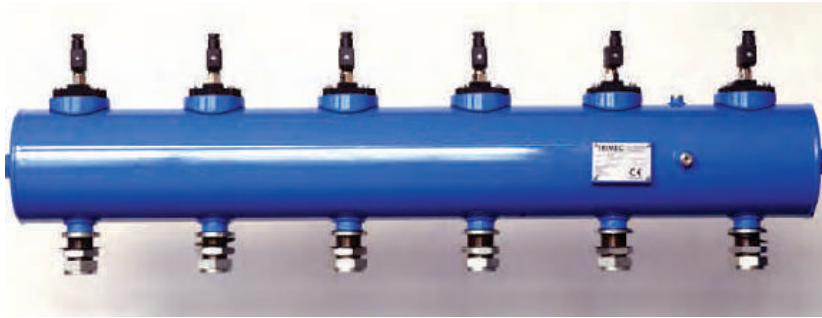
Specify **"/V12"** at the end of the identification code for **"8"** header tank with valve with single diaphragm model VR12-VP12

A - HEADER TANKS WITH BULKHEAD CONNECTORS

CERTIFICATIONS: PED 97/23/CE - ATEX 94/9/CE

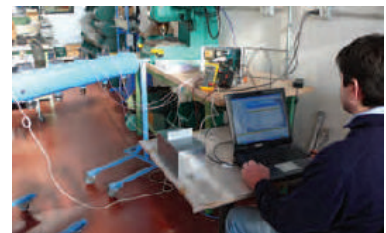


A1

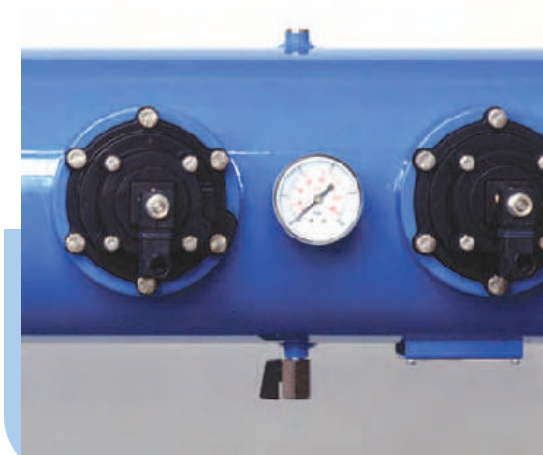
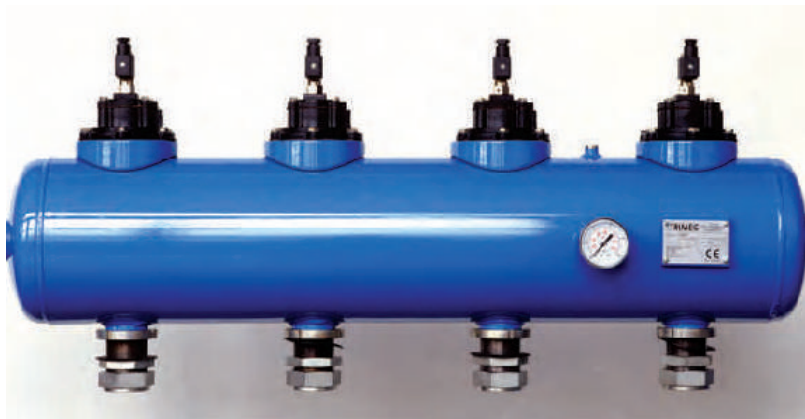


TRIMEC manufactures a wide range of header tanks for pulse jet dust collector filters designed and tested to meet the European specifications PED 97/23/CE - ATEX 94/9/CE.

The patented high efficiency "Total Immersion" system consists of steel header tank with fully integrated coupling connectors and high flow rate diaphragm valves.



Valves are in die-cast anodized aluminium suitable to operate in corrosive environments, with bolts and fasteners in stainless steel and diaphragm in high resistance textile fibre, NBR impregnated, for a very high number of operations.



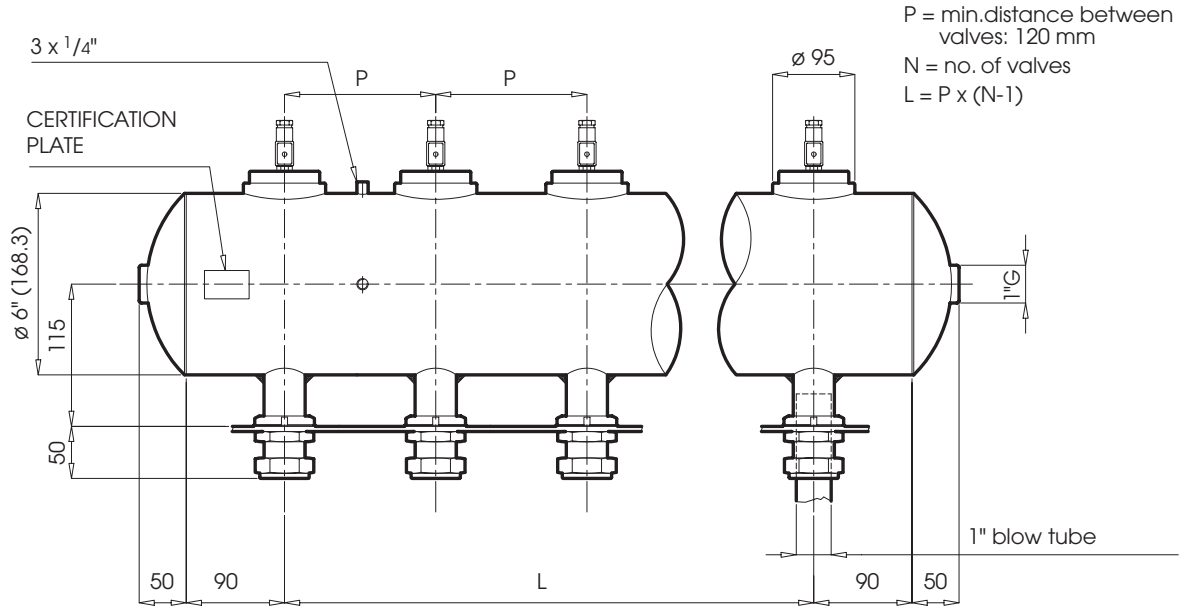
TRIMEC

DUST FILTERS COMPONENTS

A1 - CERTIFIED HEADER TANKS WITH BULKHEAD CONNECTORS

DN 6" Series with 1" Valve

6"



THE DESIGNER SHOULD SPECIFY THE OUTPUT NUMBER (N) AND THE DISTANCE BETWEEN THEM (P)
(diameter of the hole on the filterwall: 42 mm)

MATERIALS

Tube	Steel
End caps	Steel
Cover	Aluminium
Body	Aluminium
Pilot	Stainless steel
Diaphragm	NBR
Fasteners	Stainless steel
Diaphragm disk	Stainless 304
Spring	Stainless steel

ELECTRIAL CHARACTERISTICS

Coil insulation	Class H
Connector	PG 9
Insulation	VDE 0110-1/89-Class C
Waterproof	IP 65
Standard voltage	24V DC
	24V 50Hz
	110V 50Hz
	220V 50Hz
Ambience temperature	-15°C/ +70°C

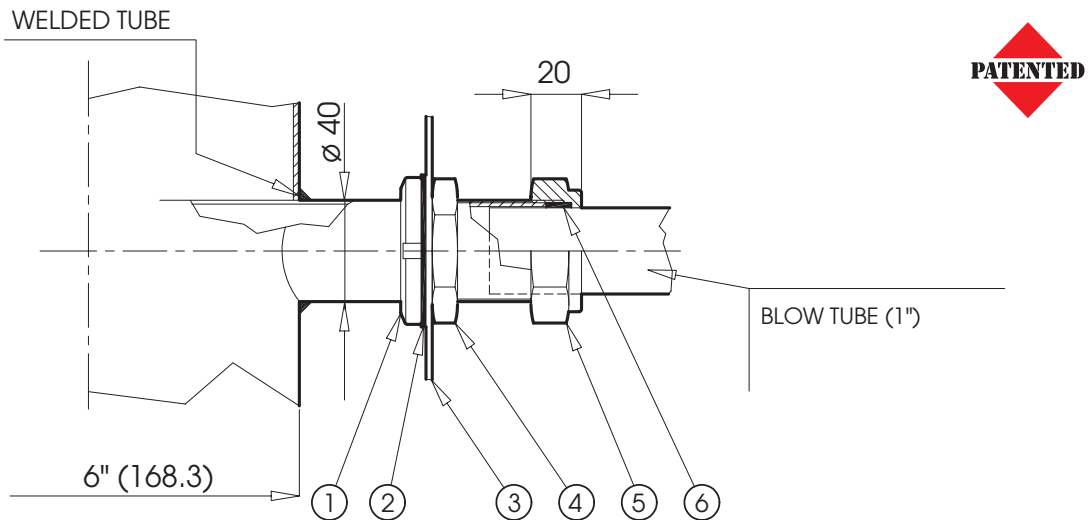
GENERAL CHARACTERISTICS

Media	Filtered and oil free air
Standard diaphragm	NBR
Optional	Viton
	-20°C/+120°C
	-30°C/+200°C
Pressure range	0,5 - 8 bar

COATING CHARACTERISTICS

Cleaning and degreasing of all surface
Preliminary coating with rust-proofing
Polyurethane coating
Colour RAL5012

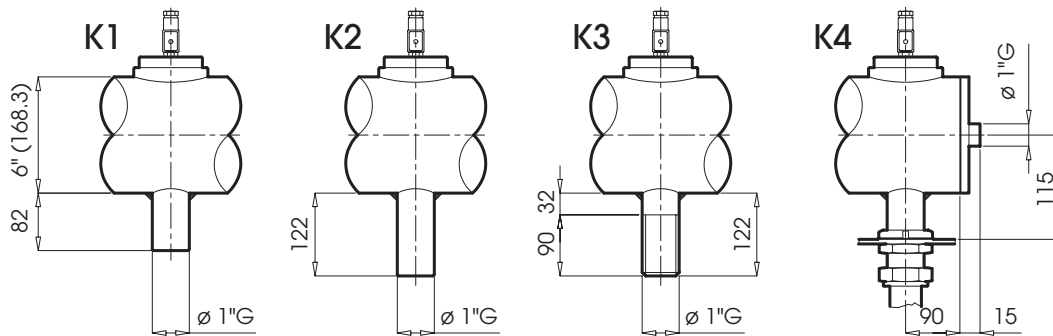
> FOR THE EXACT CODE, PLEASE REFER TO THE BEGINNING OF THE CATALOGUE <



- (1) RING NUT
- (2) FLAT SEAL
- (3) FILTER WALL
- (4) LOCKING NUT
- (5) BLOW TUBE COUPLING CONNECTOR
- (6) BLOW TUBE SEAL

AVAILABLE ON CUSTOMER REQUEST

(Specify K... at the end of the identification code)



- K1 = SHORT EVEN (1") STUB
- K2 = LONG EVEN (1") STUB
- K3 = THREADED (1") STUB
- K4 = FLAT CAP

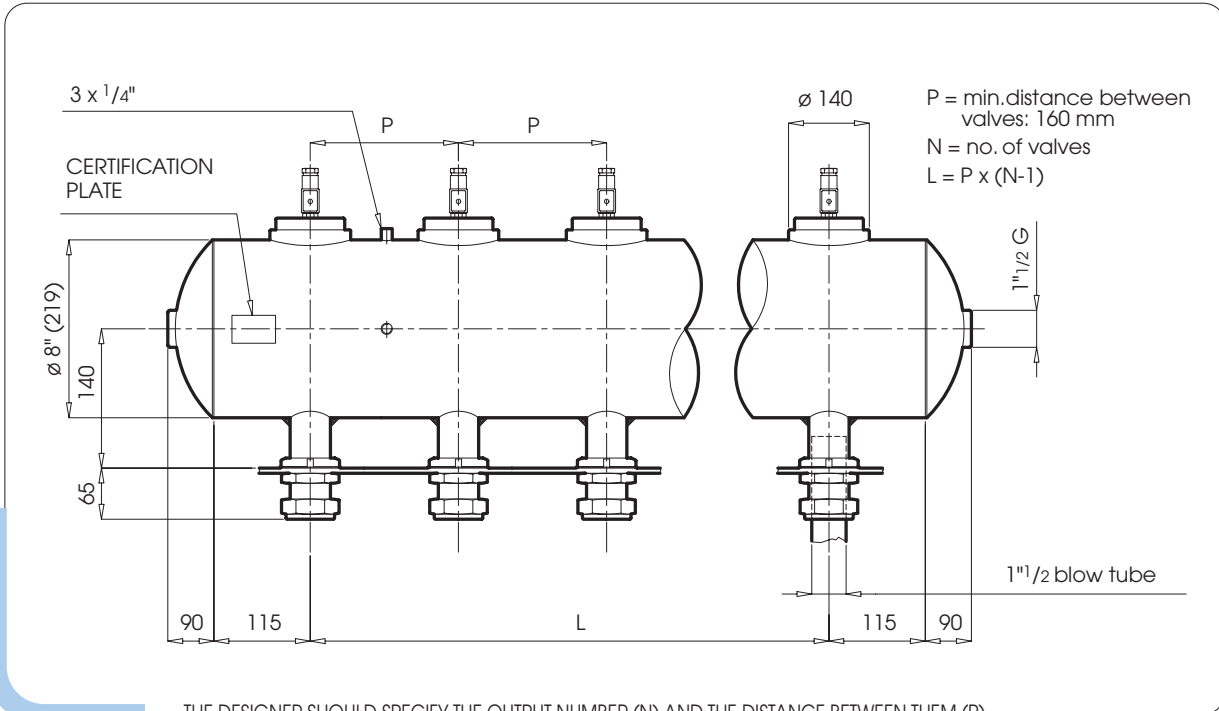
- Specify "/s., for special customer request
- Available on request:
Header tanks certified ATEX 21 and ATEX 22



A1 - CERTIFIED HEADER TANKS WITH BULKHEAD CONNECTORS

DN 8" Series with 1" 1/2 Valve

8"



THE DESIGNER SHOULD SPECIFY THE OUTPUT NUMBER (N) AND THE DISTANCE BETWEEN THEM (P)
(diameter of the hole on the filterwall: 58 mm)

MATERIALS

Tube	Steel
End caps	Steel
Cover	Aluminium
Body	Aluminium
Pilot	Stainless steel
Diaphragm	NBR
Fasteners	Stainless steel
Diaphragm disk	Stainless 304
Spring	Stainless steel

ELECTRIAL CHARACTERISTICS

Coil insulation	Class H
Connector	PG 9
Insulation	VDE 0110-1/89-Class C
Waterproof	IP 65
Standard voltage	24V DC
	24V 50Hz
	110V 50Hz
	220V 50Hz
Ambience temperature	-15°C/ +70°C

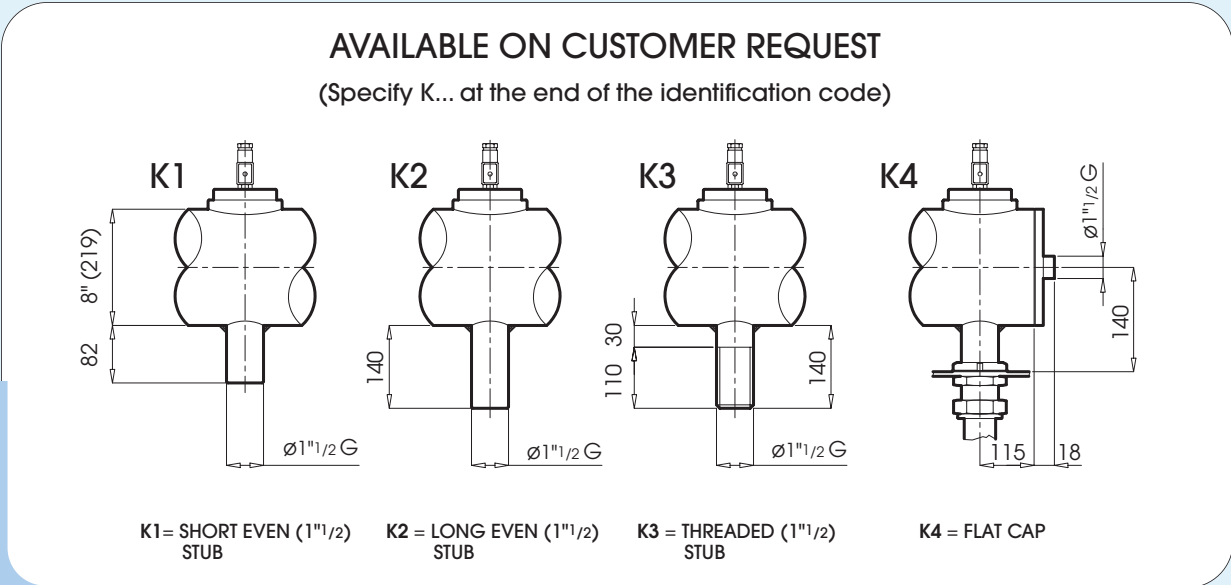
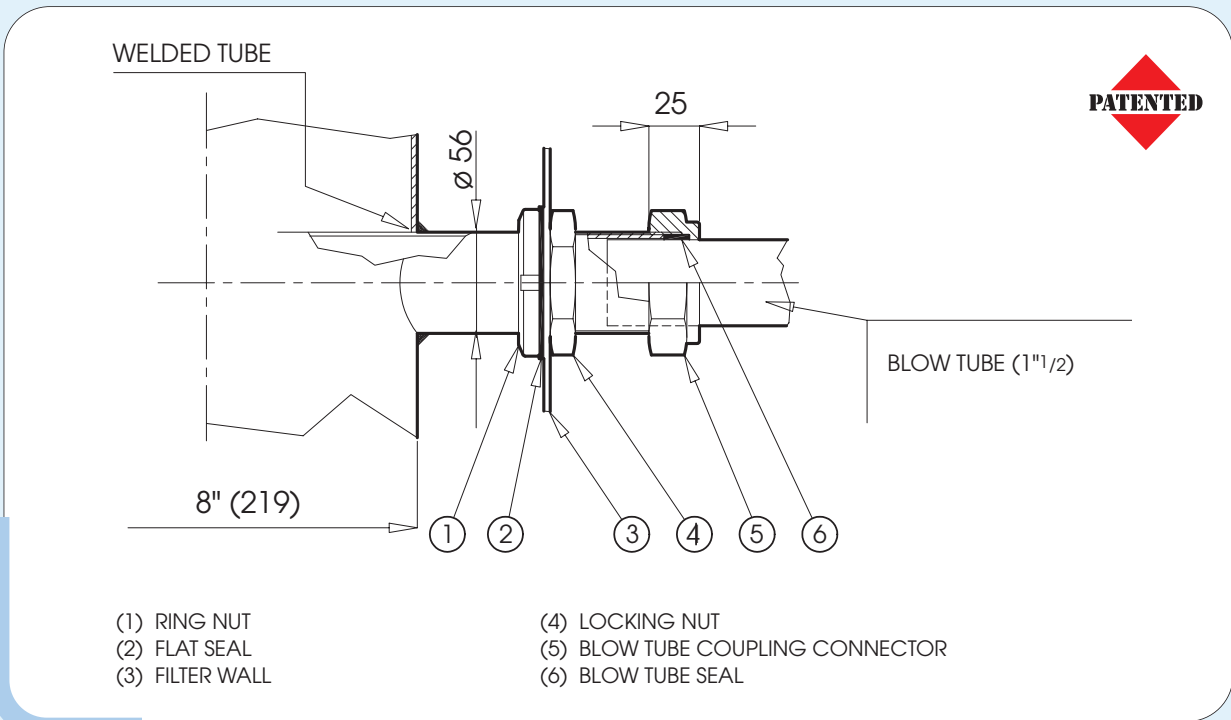
GENERAL CHARACTERISTICS

Media	Filtered and oil free air
Standard diaphragm	NBR
Optional	Viton
	-20°C/+120°C
	-30°C/+200°C
Pressure range	0,5 - 8 bar

COATING CHARACTERISTICS

Cleaning and degreasing of all surface
Preliminary coating with rust-proofing
Polyurethane coating
Colour RAL5012

> FOR THE EXACT CODE, PLEASE REFER TO THE BEGINNING OF THE CATALOGUE <

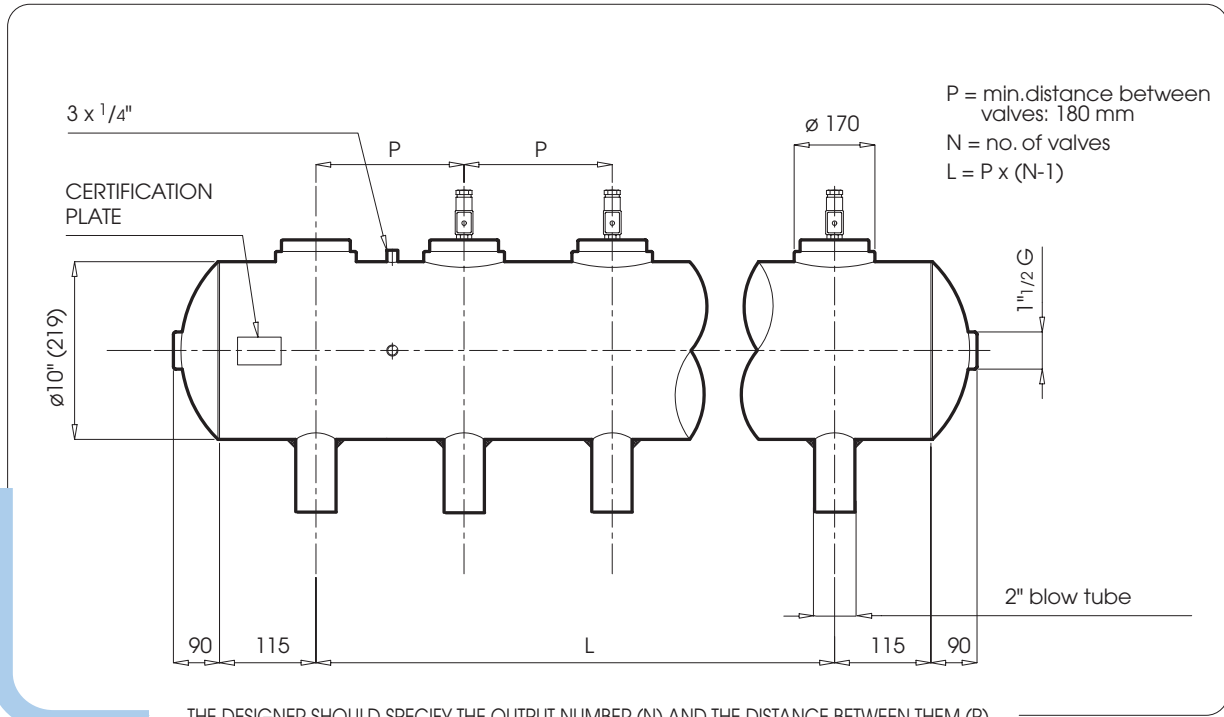


- Specify "/s," for special customer request
- Available on request:
Header tanks certified ATEX 21 and ATEX 22
- Specify "/V12" at the end of the identification code for "8" header tank with valve with single diaphragm model VR12-VP12



A1 - CERTIFIED HEADER TANKS WITH BULKHEAD CONNECTORS

DN 10" Series with 2" Valve



THE DESIGNER SHOULD SPECIFY THE OUTPUT NUMBER (N) AND THE DISTANCE BETWEEN THEM (P)
(diameter of the hole on the filterwall: 70 mm)

MATERIALS

Tube	Steel
End caps	Steel
Cover	Aluminium
Body	Aluminium
Pilot	Stainless steel
Diaphragm	NBR
Fasteners	Stainless steel
Diaphragm disk	Stainless 304
Spring	Stainless steel

ELECTRIAL CHARACTERISTICS

Coil insulation	Class H
Connector	PG 9
Insulation	VDE 0110-1/89-Class C
Waterproof	IP 65
Standard voltage	24V DC 24V 50Hz 110V 50Hz 220V 50Hz
Ambience temperature	-15°C/ +70°C

GENERAL CHARACTERISTICS

Media	Filtered and oil freeair
Standard diaphragm	NBR -20°C/+120°C
Optional	Viton -30°C/+200°C
Pressure range	0,5 - 8 bar

COATING CHARACTERISTICS

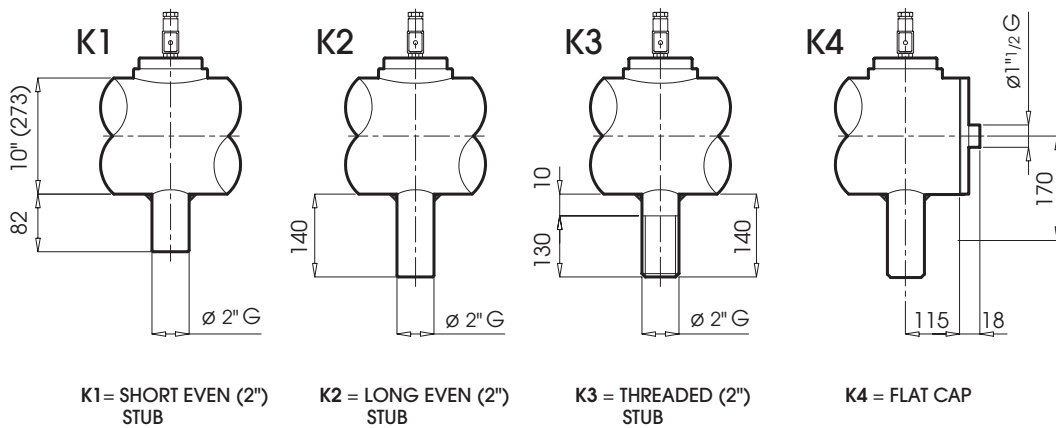
Cleaning and degreasing of all surface
Preliminary coating with rust-proofing
Polyurethane coating
Colour RAL5012

> FOR THE EXACT CODE, PLEASE REFER TO THE BEGINNING OF THE CATALOGUE <



AVAILABLE ON CUSTOMER REQUEST

(Specify K... at the end of the identification code)



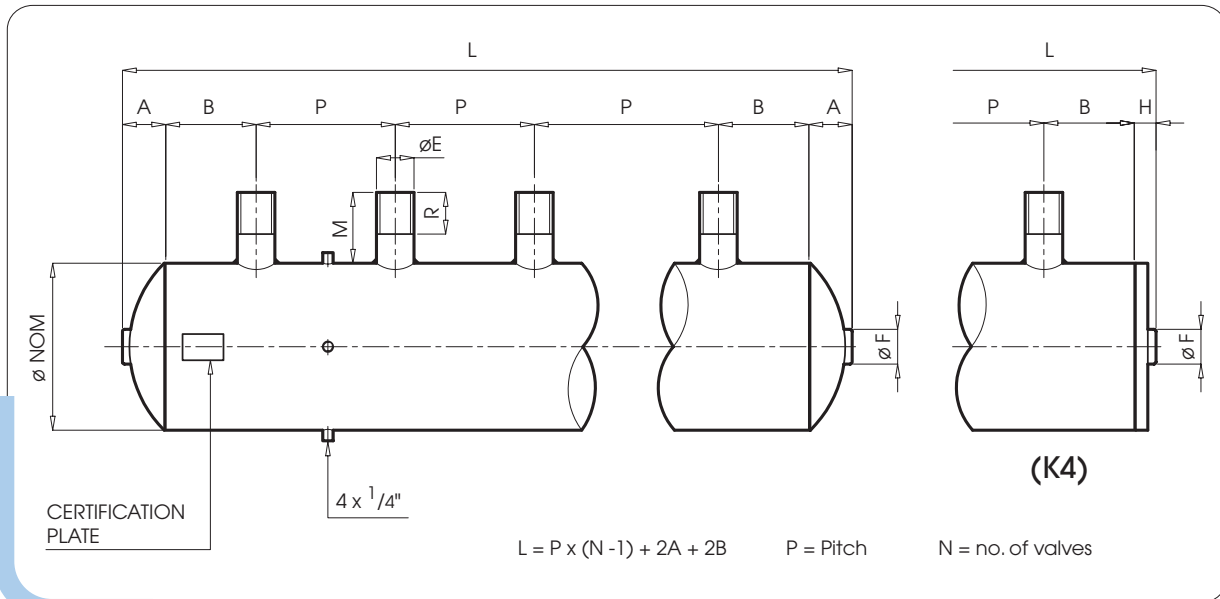
- Specify “/s,, for special customer request
- Available on request:
Header tanks certified ATEX 21 and ATEX 22



A2 - CERTIFIED TANKS WITH THREADED CONNECTIONS

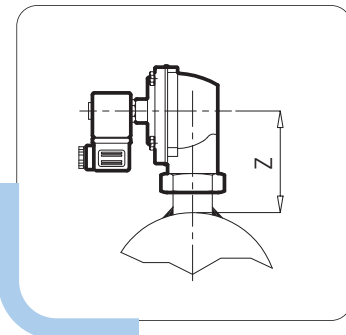
STF Series - CERTIFICATIONS: PED 97/23/CE - ATEX 94/9/CE

STF



THE DESIGNER SHOULD SPECIFY:

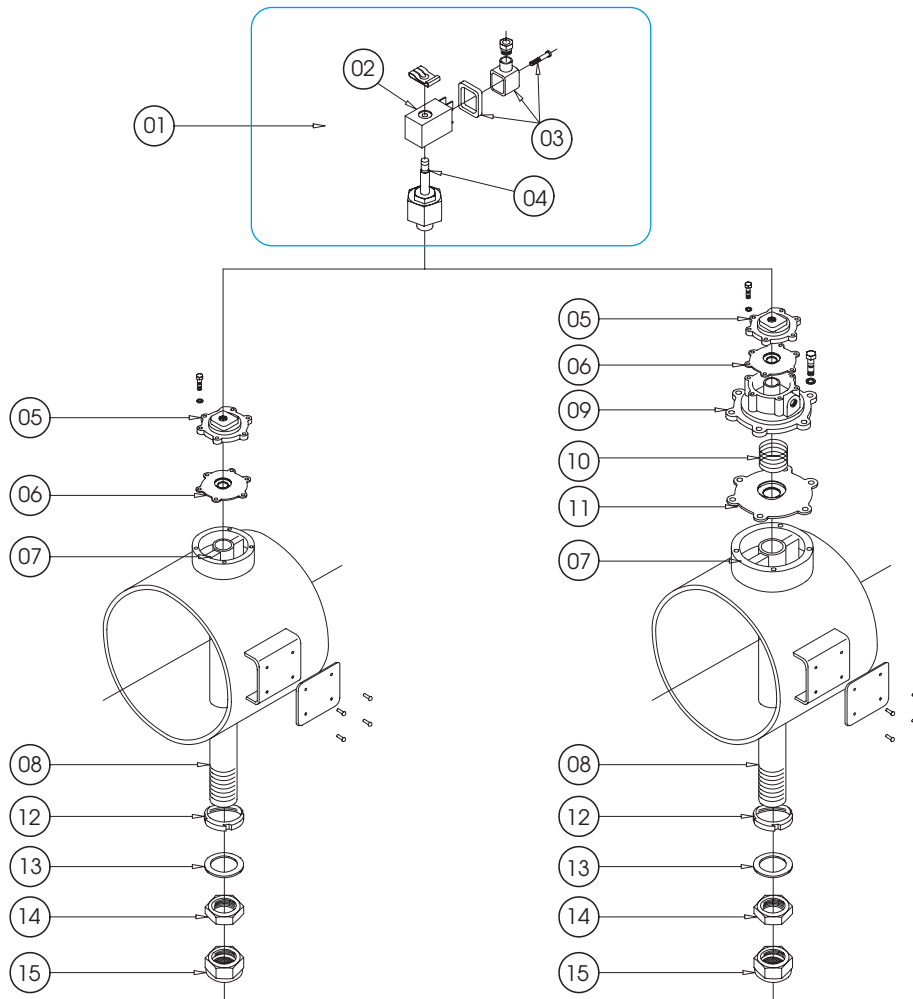
- A) Tank diameter
 - 6" (y = 1")
 - 8" (y = 1"1/2)
 - 10" (y = 2" o 2"1/2)
- B) Distance between the valves
- C) No. of valves
- D) If flat end caps are required, add "/K4" at the end of the identification code



MAXIMUM PRESSURE: 8 bar

Ø TANK	ØE	A	B	ØF	H	M	Z	R	P min	
6"	168.3	1"	50	40	1"	15	85	120	45	100
8"	219.1	1"1/2	70	40	1"1/2	18	85	136	45	150
10"	273	2"	90	65	1"1/2	18	85	150	45	180
10"	273	2"1/2	90	65	1"1/2	18	85	150	45	200

> FOR THE EXACT CODE, PLEASE REFER TO THE BEGINNING OF THE CATALOGUE <



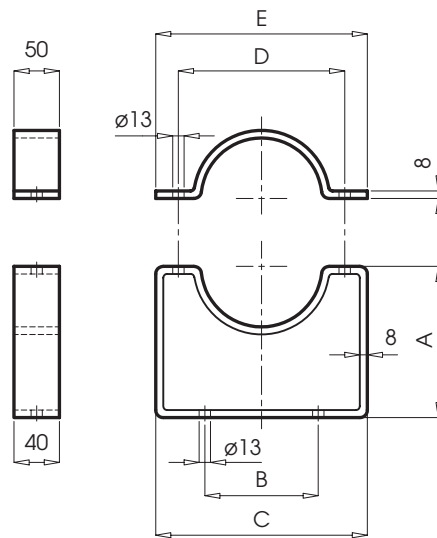
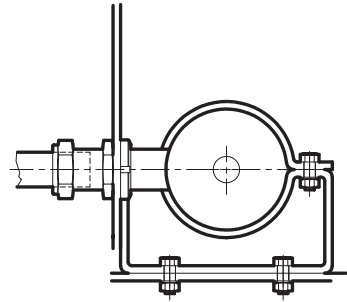
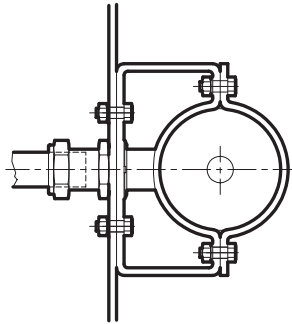
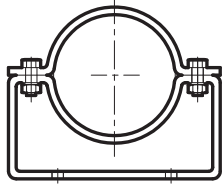
ITEM No.	DESCRIZIONE	1"	1"1/2	2"
01	Pilot group c/w solenoid* and Din Connector	GP*	GP	GP
02	Coil*	BB*	BB	BB
03	Din connector PG9 mignon	PG 9	PG 9	PG 9
04	Pilot with base	PVB	PVB	PVB
05	Top cover (1" size)	D 1148	D 1148	D 1148
06	Standard diaphragm (1") NBR Optional diaphragm (1") Viton	D 1239 D 1240	D 1239 D 1240	D 1239 D 1240
07	Body base	not available	not available	not available
08	Blow tube	not available	not available	not available
09	Double diaphragm cover	= =	D 1150	D 1241
10	Spring	= =	D 1242	D 1242
11	Standard diaphragm NBR Optional diaphragm Viton	= = = =	D 1243 D 1245	D 1244 D 1246
12	Ring nut	D 1247	D 1248	= =
13	Round flat seal	D 1250	D 1251	= =
14	Nut	D 1253	D 1254	= =
15	Seal nut	D 1256	D 1257	= =

*Specify voltage

Standard voltages
02450 = 24V 50 Hz
11050 = 110V 50 Hz
22050 = 220V 50 Hz
024DC = 24V cc

> FOR THE EXACT CODE, PLEASE REFER TO THE BEGINNING OF THE CATALOGUE <

BRACKETS FOR HEADER TANKS



CB = Bracket
 SB = Low size bracket
 SM = Mid size bracket
 SA = Large size bracket

6" = diameter 168.3
 8" = diameter 219.1
 10" = diameter 273.0

TYPE	Ø TANK	A	B	C	D	E
CB6	6"	-	-	292	230	292
CB8	8"	-	-	348	284	348
CB10	10"	-	-	424	350	424
SB6	6"	115	150	292	240	292
SM6	6"	170	150	292	240	292
SA6	6"	200	150	292	240	292
SB8	8"	140	200	348	290	348
SM8	8"	210	200	348	290	348
SA8	8"	270	200	348	290	348
SB10	10"	160	250	424	350	424

INSTALLATION & MAINTENANCE INSTRUCTION

1) Valve Body + Tank + Blow tube (valve outlet pipe) are built up and fully tested as a single and complete module. The blow tube is welded to the tank, therefore, cannot be taken apart.

2) Proper combination between the Tank Size and the Air Inlet Pipe

Tank	Inlet pipe
6"	$\frac{3}{4}$ " min
8"	1"
10"	1"

3) Ensure air supply is clean and dry. We recommend the installation of a filter/reducer unit with automatic drain directly to the inlet of the tank in order to ensure clean and dry air, as well as steady supply pressure, to the diaphragm valves.

4) We recommend a proper protection on top of the valves and the complete unit against rain and harsh environmental conditions.

5) Before pressurising the pressure vessel make sure that the drain valve is properly fitted and easily reachable at the bottom of the tank.

6) Before maintenance and repair of the tank/valves unit, disconnect all air and electrical supply and **make sure that no pressure remains inside the tank.**
When fitting a new diaphragm ensure that the rivet matches its seat.

Trouble shooting

1) Valve does not open:

- A - Verify that the supply pressure value is correct
- B - Verify the electrical connections and supply voltage value.

2) Valve remains open or keep losing air:

- A - Check the value of the supply pressure
- B - Make sure that the bolts of the top cover are properly tight
- C - Remove the top cover and verify that the base of the valve is clean and free of dust or other impurities.

SECTION

B

DIAPHRAGM VALVES

**Diaphragm Valves
with threaded connections for remote pilot control**

**Diaphragm Valves
with threaded connections and integral pilot control**

B - DIAPHRAM VALVES

WITH THREADED CONNECTIONS



The **V Series** is a complete range of pulse valves with threaded connections suitable for reverse pulse jet filters cleaning in dust collector filters. The valves have been specifically designed to ensure high flow rate with a very fast opening time.

The valves can be easily mounted on header tanks (i.e. **STF Series**) and are available with integral solenoid (**VP Series**) or with remote pneumatic connections (**VR Series**) to remote solenoid pilot enclosures (**CSP Series**).

All valves are constructed in anodized die-cast aluminium providing protection from corrosive and environmental conditions. Bolts and screws are in stainless steel.

GENERAL CHARACTERISTICS

Media	Filtered, dry and oil free compressed air
Pressure range	From 0,5 to 7.57 bar
Cover	Die-cast aluminium
Body	Die-cast aluminium
Pilot	Stainless steel
Waterproof protection	IP 65

Type	Ø	No. of diaphragm	Pressure range (bar)		Coil
			min.	max	
VP 08	1"	1	0,5	8	SI
VP 12	1 1/2"	1	0,5	8	SI
VP 14	1 1/2"	2	0,5	8	SI
VP 16	2"	2	0,5	8	SI
VP 20	2 1/2"	2	0,5	8	SI

VR 08	1"	1	0,5	8	NO
VR 12	1 1/2"	1	0,5	8	NO
VR 14	1 1/2"	2	0,5	8	NO
VR 16	2"	2	0,5	8	NO
VR 20	2 1/2"	2	0,5	8	NO

VP = with integral solenoid pilot
VR = with remote solenoid pilot



Standard voltages

02450 = 24V 50 Hz

11050 = 110V 50 Hz

22050 = 220V 50 Hz

024DC = 24V cc

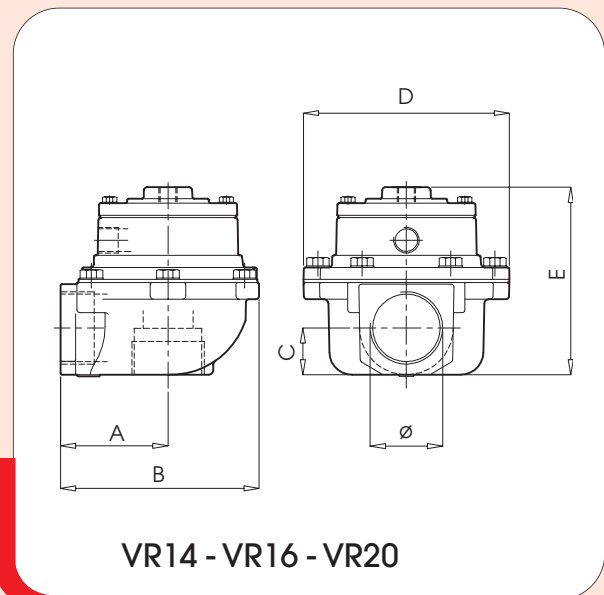
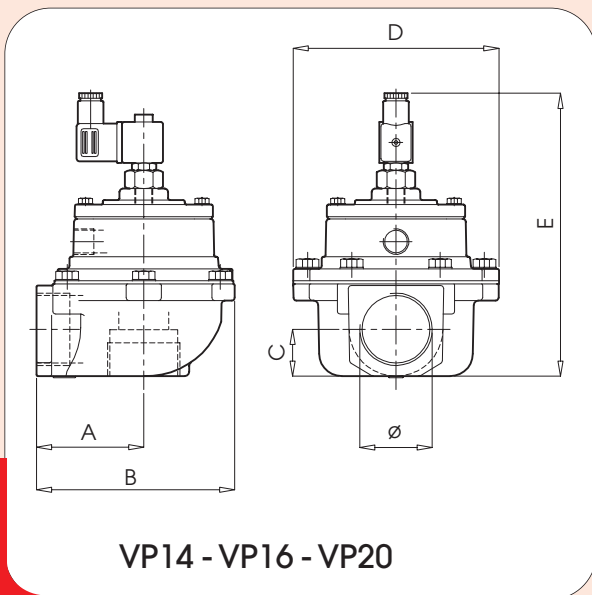
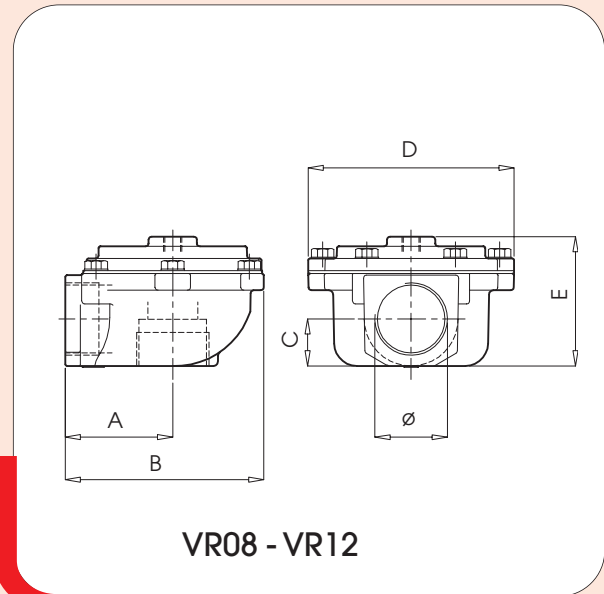
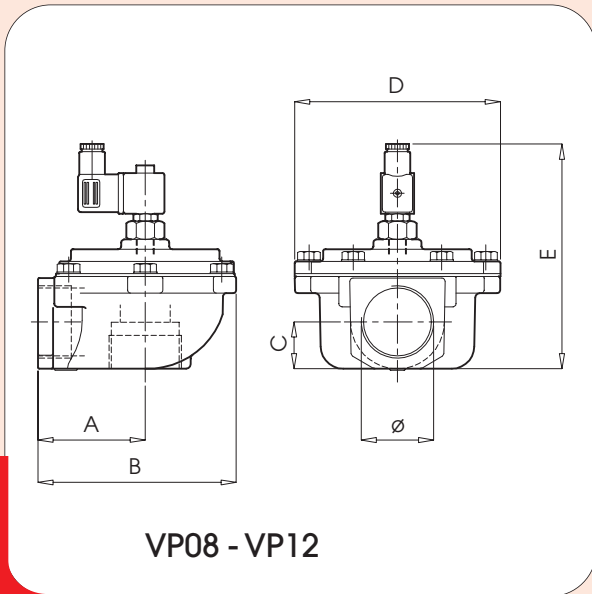
ADD VOLTAGE VALUE AT THE END OF THE CODE WHEN ORDERING VP SERIES VALVES

>(Example: VP08/ 02450)<

B - DIAPHRAM VALVES

WITH THREADED CONNECTIONS

B



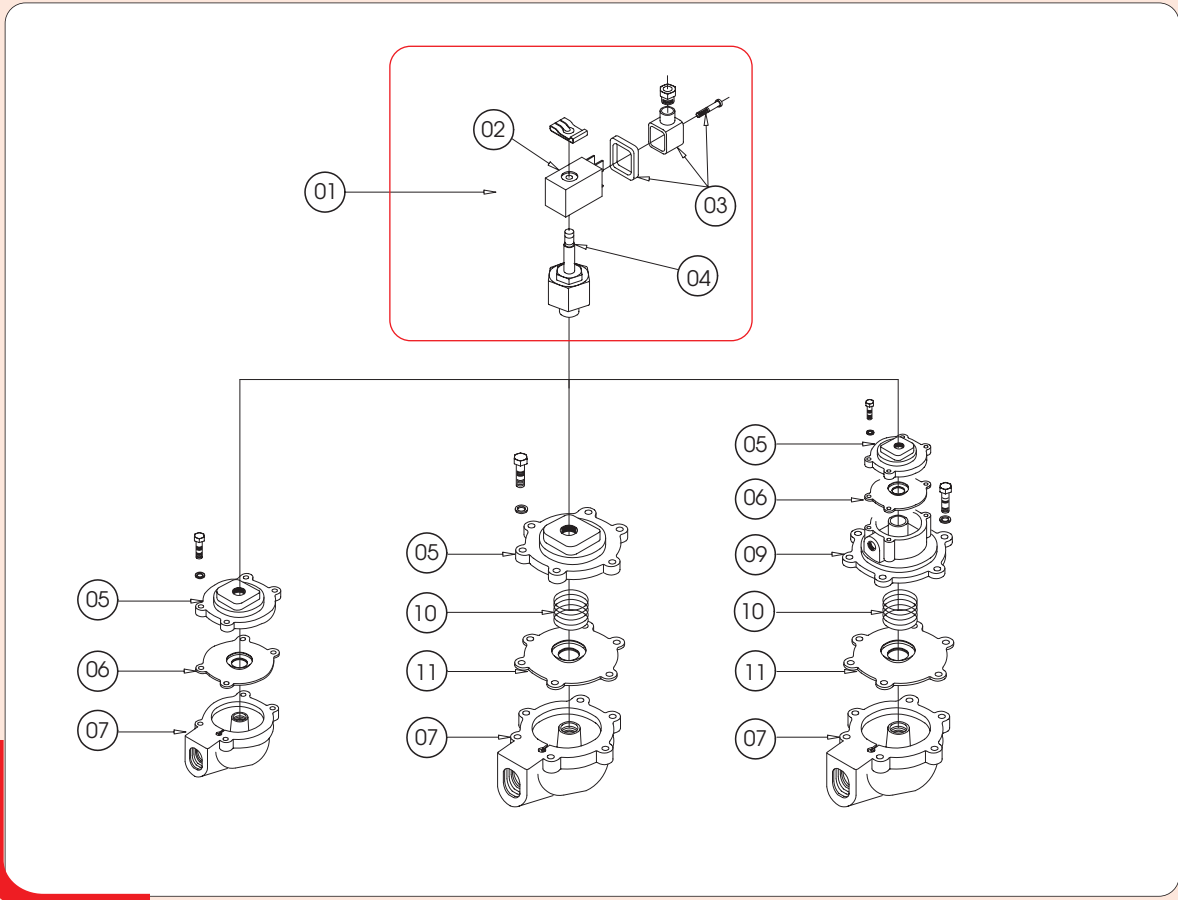
Type VP	Ø	A	B	C	D	E
VP 08	1"	52	90	23	75	138
VP 12	1 1/2"	72	130	31	135	160
VP 14	1 1/2"	72	130	31	135	201
VP 16	2"	90	160	35	160	221
VP 20	2 1/2"	115	200	48	190	241

Type VR	Ø	A	B	C	D	E
VR 08	1"	52	90	23	75	63
VR 12	1 1/2"	72	130	31	135	85
VR 14	1 1/2"	72	130	31	135	126
VR 16	2"	90	160	35	160	146
VR 20	2 1/2"	115	200	48	190	166

B - DIAPHRAM VALVES

SPARE PARTS

R



Item	Description	VP08	VP12	VP14	VP16	VR8	VR12	VR14	VR16
01	Pilot group c/w solenoid and connector	GP/*	GP/*	GP/*	GP/*	-	-	-	-
02	Coil	BB/*	BB/*	BB/*	BB/*	-	-	-	-
03	Connector	PG9	PG9	PG9	PG9	-	-	-	-
04	Pilot with base	PVB	PVB	PVB	PVB	-	-	-	-
05	Cover	D 1148	D 1193	D 1148	D 1148	D 1148	D 1193	D 1148	D 1193
06	Standard diaphragm NBR	D 1239	-	D 1239	D 1239	D 1239	-	D 1239	D 1239
	Viton diaphragm	D 1240	-	D 1240	D 1240	D 1240	-	D 1240	D 1240
07	Body	D 1259	D 1192	D 1192	D 1260	D 1259	D 1192	D 1192	D 1260
09	Top cover	-	-	D1150	D1241	-	-	D1150	D1241
10	Spring	-	D 1242	D 1242	D 1242	-	D 1242	D 1242	D 1242
11	Standard diaphragm NBR	-	D 1261	D 1243	D 1244	-	D 1261	D 1243	D 1244
	Viton diaphragm	-	D 1262	D 1245	D 1246	-	D 1262	D 1245	D 1246

*Specify voltage value

Standard voltages
02450 = 24V 50 Hz
11050 = 110V 50 Hz
22050 = 220V 50 Hz
024DC = 24V cc

SECTION

C

**REMOTE SOLENOID
PILOT ENCLOSURES**

C - REMOTE SOLENOID PILOT ENCLOSURES

CSP SERIES



The **CSP** waterproof enclosure is designed for remote control of diaphragm valves VR series installed on header tanks, including the "Total Immersion" series.

They are available in the following models:

CSP 5 = from 1 to 5 solenoid pilots

CSP 8 = from 6 to 8 solenoid pilots

CSP 12 = from 9 to 12 solenoid pilots.

The solenoid pilots are energized in sequence through electronic control panels and are connected to the diaphragm valves by way of O.D. 8 mm pneumatic tube being less than 2 meters in length.

The complete enclosure is manufactured in die-cast aluminium, painted for protection against aggressive agents.

For low temperature applications, all models are available with thermostatical controlled heater.

GENERAL CHARACTERISTICS

Media	Compressed air, dried, filtered and oil free
Pressure range	0,5 bar - 7,5 bar
Cover	Die-cast aluminium (Painted)
Base	Die-cast aluminium (Painted)
Pilot	Stainless steel
Waterproof	IP 65
Thermostatical heater	70W for CSP5 120W for CSP8 - CSP12

HOW THE ORDER

CSP 7 02450 R

CSP = Waterproof enclosure IP67

CSP5 = small box
CSP8 = medium box
CSP12 = large box

Standard voltages

02450 = 24V 50 Hz
11050 = 110V 50 Hz
22050 = 220V 50 Hz
024DC = 24V DC

Heater with thermostat

Power consumption 70W for CSP5
Power consumption 120W for CSP8
Power consumption 120W for CSP12

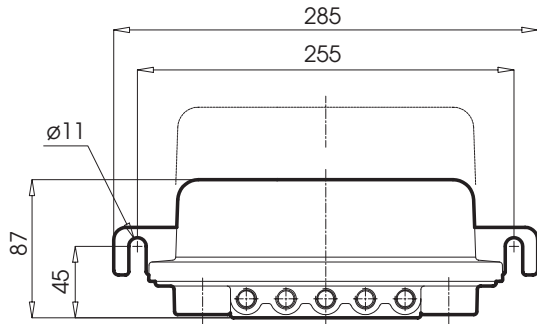
Example

The code **CSP7 V 02450 R** is for:

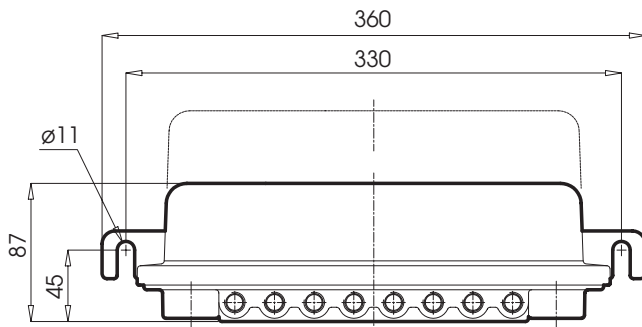
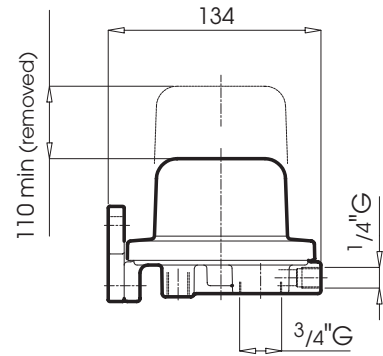
- waterproof enclosure
- with 7 pilot installed
- supply voltage 24V 50 Hz
- complete with heater resistance 120W

C - REMOTE SOLENOID PILOT ENCLOSURES
CSP SERIES

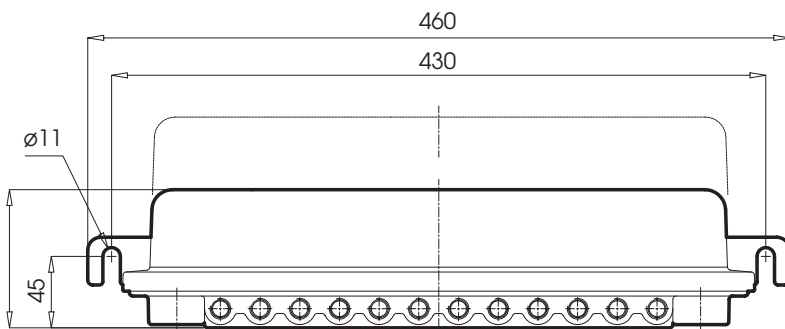
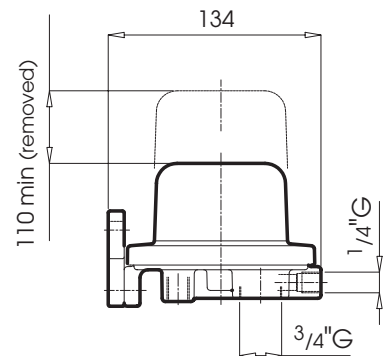
C



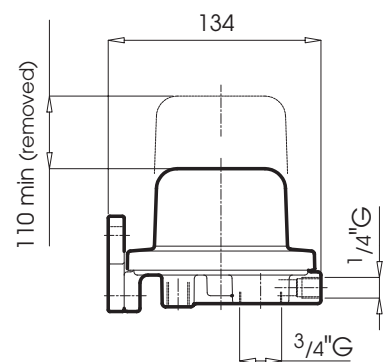
CSP5 - Small Box



CSP8 - Medium Box



CSP12 - Large Box



SECTION

D

**ELECTRONIC CONTROL SYSTEMS
FOR DEDUSTING FILTERS**

TRIBOELECTRIC LEAK DETECTOR

D - ECONOMIST MICROPROCESSOR SEQUENCER

Models RCM 4-8-12-16

D

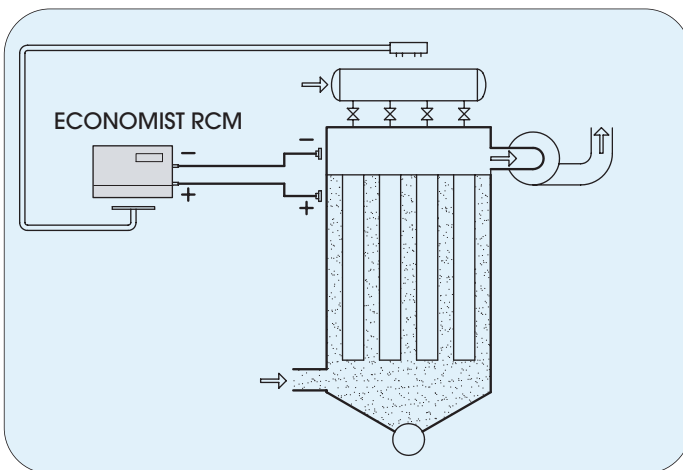


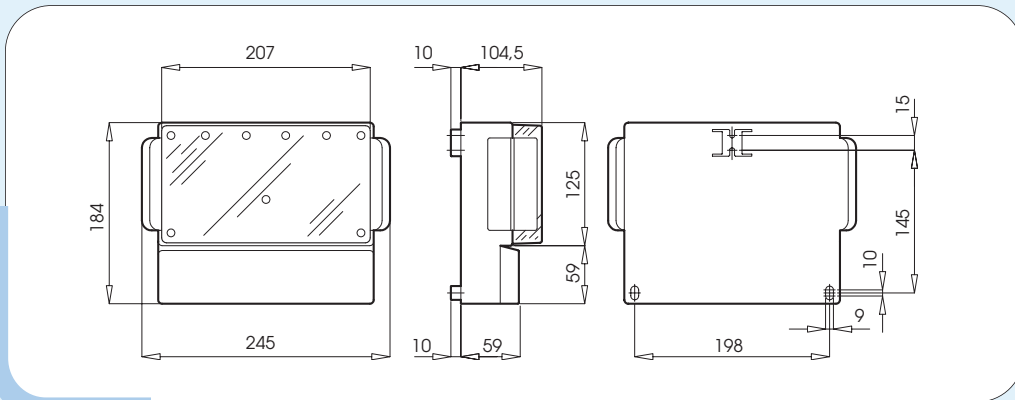
The Model **RCM**, controlled by a microprocessor, has been designed to drive the cleaning cycle in dust collector filters, using an internal differential pressure monitor, which allows the timer to operate according to the pressure drop through the filter.

All the main operative functions are visualized through digital displays.

All the technical characteristics satisfy the CE Directives.

The sequencer is available with 4-8-12-16 outputs.





GENERAL CHARACTERISTICS

Power inlet	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz
Output voltages	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz <i>optional</i> 24V - DC
Power consumption	20VA 45VA in rush
Pulse time	0,01 > 9,99 sec
Pause time (manual or automatic mode)	1 > 999 sec
ΔP adjustment	0,01 > 10 kPa
ΔP alarm adjustment	0,01 > 10 kPa
ΔP precoating adjustment	0 > 10 kPa
Shut down cleaning cycles	0 > 99
Hour counter	1- 999 hours
Enclosure:	<i>protection</i> IP65 <i>material</i> ABS grey-transparent cover

MAIN FEATURES

- 1 Presetting of the inlet and outlet voltage values
- 2 Pulse time adjustment
- 3 ΔP value adjustment
- 4 Selecting of the no. of shut down cleaning cycles
- 5 Pause time adjustment
- 6 Precoating function for the start up of new filters
- 7 ΔP alarm adjustment
- 8 Hour counter, indicating the no. of hours the filter has actually worked
- 9 Zero ΔP adjustment
- 10 ΔP alarm due to malfunction of the main control functions: microprocessor, solenoid valves, max ΔP ..

D - ECONOMIST MICROPROCESSOR SEQUENCER

Models RCM 20-24-28-32

D

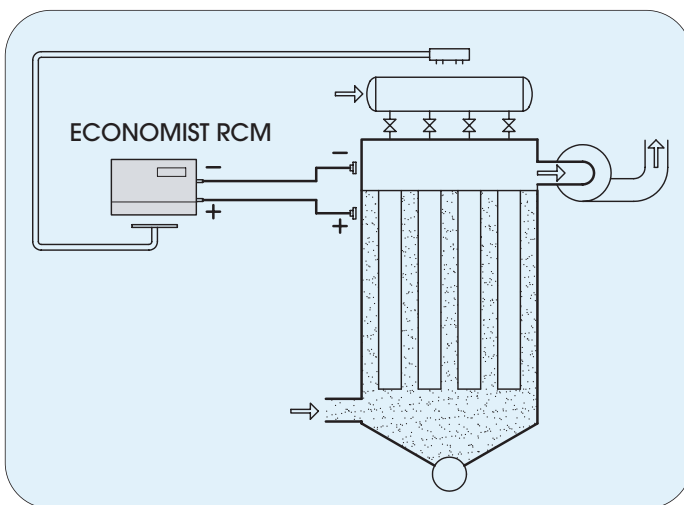


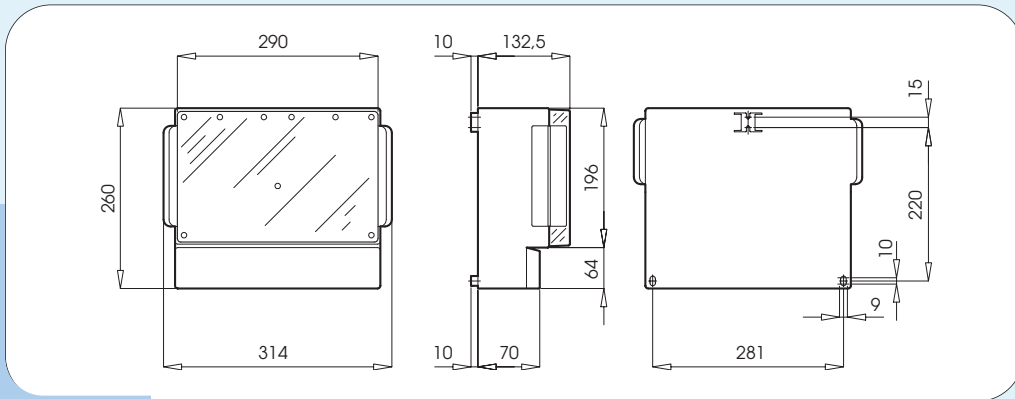
The Model **RCM**, controlled by a microprocessor, has been designed to drive the cleaning cycle in dust collector filters, using an internal differential pressure monitor, which allows the timer to operate according to the pressure drop through the filter.

All the main operative functions are visualized through digital displays.

All the technical characteristics satisfy the CE Directives.

The sequencer is available with 20-24-28-32 outputs.





GENERAL CHARACTERISTICS

Power inlet	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz
Output voltages	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz <i>optional</i> 24V - DC
Power consumption	20VA 45VA in rush
Pulse time	0,01 > 9,99 sec
Pause time (manual or automatic mode)	1 > 999 sec
ΔP adjustment	0,01 > 10 kPa
ΔP alarm adjustment	0,01 > 10 kPa
ΔP precoating adjustment	0 > 10 kPa
Shut down cleaning cycles	0 > 99
Hour counter	1- 999 hours
Enclosure:	<i>protection</i> IP65 <i>material</i> ABS grey-transparent cover

MAIN FEATURES

- 1 Presetting of the inlet and outlet voltage values
- 2 Pulse time adjustment
- 3 ΔP value adjustment
- 4 Selecting of the no. of shut down cleaning cycles
- 5 Pause time adjustment
- 6 Precoating function for the start up of new filters
- 7 ΔP alarm adjustment
- 8 Hour counter, indicating the no. of hours the filter has actually worked
- 9 Zero ΔP adjustment
- 10 ΔP alarm due to malfunction of the main control functions: microprocessor, solenoid valves, max ΔP ..

D - SEQUENTIAL TIMER

Models PCB 4-8-12-24-36-48



The electronic sequencer has been designed to drive in a sequence the diaphragm valves installed in dust collector filters.

The model **PCB** is a simple and economic solution for:

- Flexible and reliable settings of the most common functions for cleaning cycles.
- Potentiometric control of the pulse and pause time
- Potentiometric control of the shutdown cleaning.

The sequencer is available in the following versions:

PCB 4: maximum 4 outlets

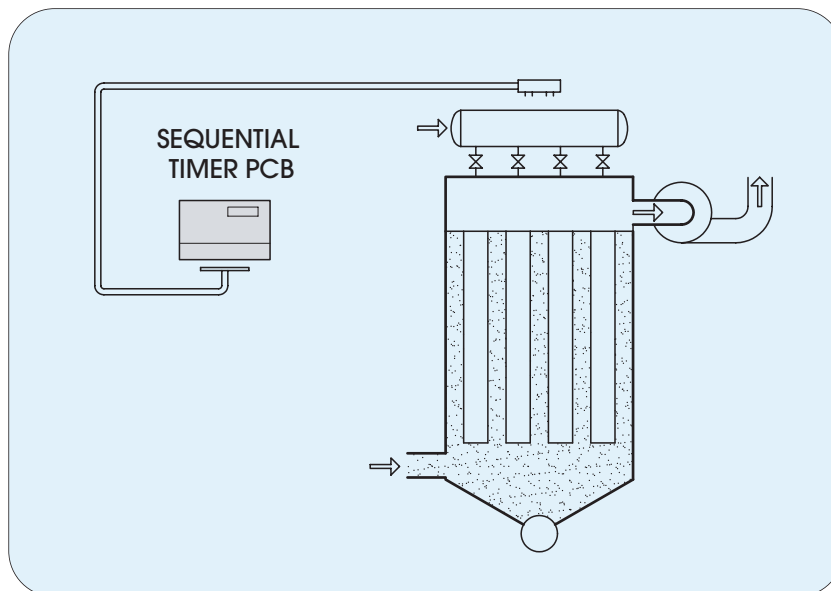
PCB 8: maximum 8 outlets.

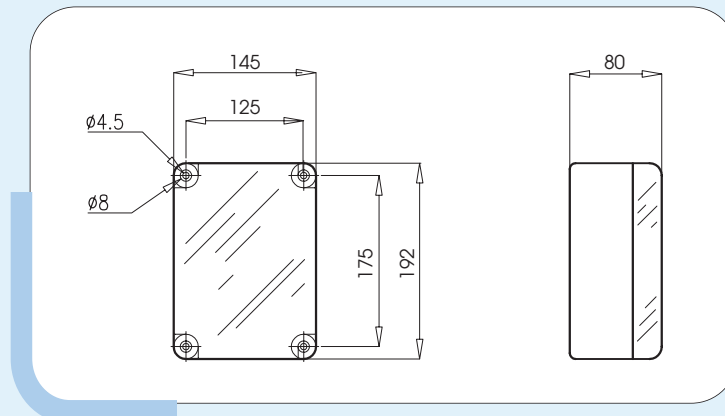
PCB12: maximum 12 outlets.

PCB 24: maximum 24 outlets.

PCB 36: maximum 36 outlets.

PCB 48: maximum 48 outlets.



**GENERAL CHARACTERISTICS**

Power inlet	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz
Output voltages	24V - 50/60Hz 110V - 50/60Hz 220V - 50/60Hz <i>optional</i> 24V - DC
Power consumption	20VA 45VA in rush
Pulse time	0,2 > 10 sec
Pause time	13 > 150 sec
Shut down cleaning time	2 > 100 min
Enclosure:	<i>protection</i> IP65 <i>material</i> ABS grey-transparent cover

MAIN FEATURES

- 1 Presetting of the inlet and outlet voltage values
- 2 Potentiometric setting of the pulse time
- 3 Potentiometric setting of the pause time
- 4 Potentiometric setting of the shutdown cleaning time

D - TRIBOELECTRIC DUST DETECTOR

Model TD-DIP



The model **TD-DIP** is a continuous monitoring device of the dust particles emissions in a gas stream using triboelectric technology.

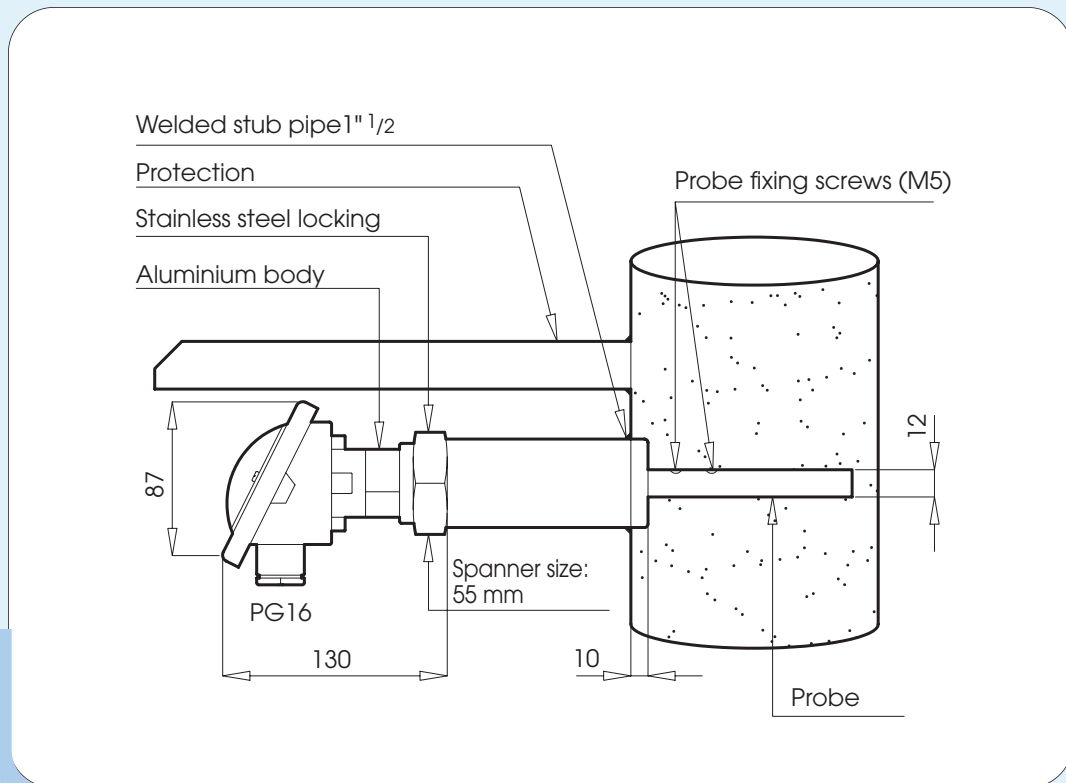
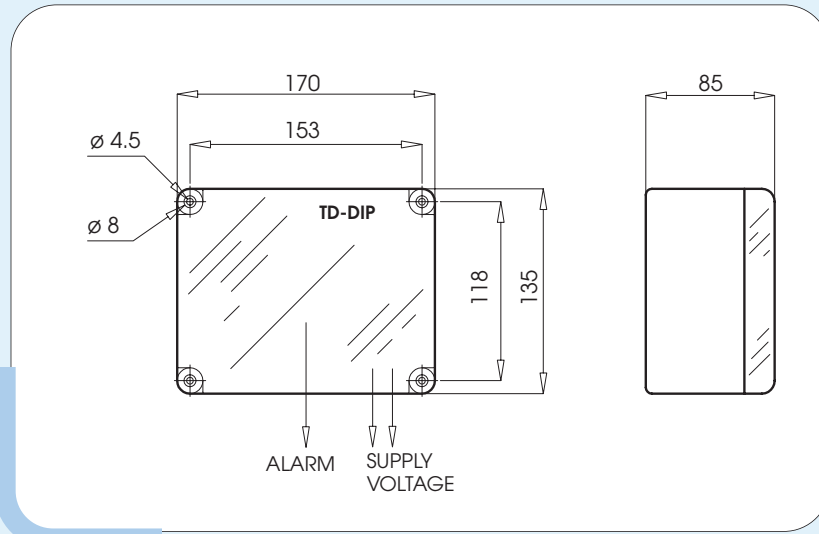
As particles travel through the process develop a charge, which is transferred to a sensing element installed in the filter house.

GENERAL CHARACTERISTICS OF THE PROBE TD-S

Process umidity	0 ÷ 80% relative
Process temperature	Model TD-S -20°C + 60°C Model TD-S-HT -20°C + 400°C
Sensing elements material	Stainless steel
Simple and easy removable installation	

GENERAL CHARACTERISTICS OF THE CONTROL UNIT

Sensitivity	Dip-switch + Jumper (range 1 ÷ 100.000)
Response time	Peak 1 sec./ average 20 sec.
Alarm relay	SPDT contact
Visual indication of emission density	10 steps bar graph leds
Remote control	Sensitivity test
Dust concentration	0,1 mg/Nmc ÷ 10 g/Nmc
Particle size	down to 0.3µ
Enclosure	Material ABS plastic composite / Rating: IP-65



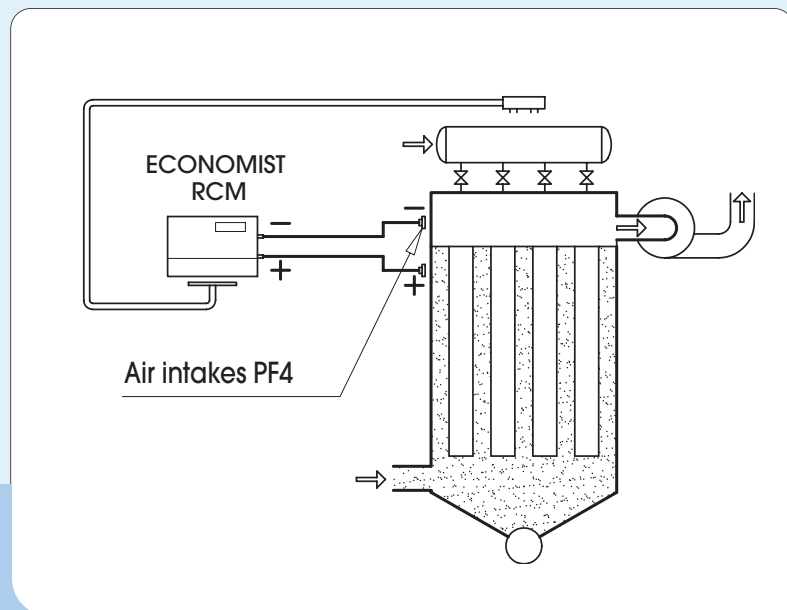
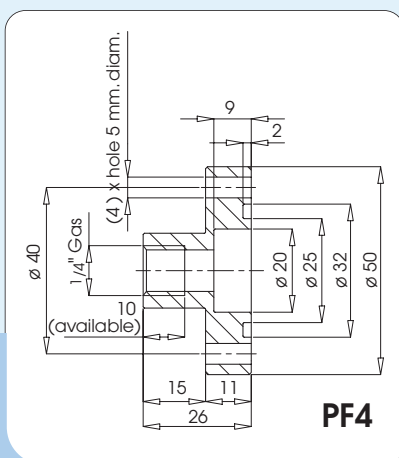
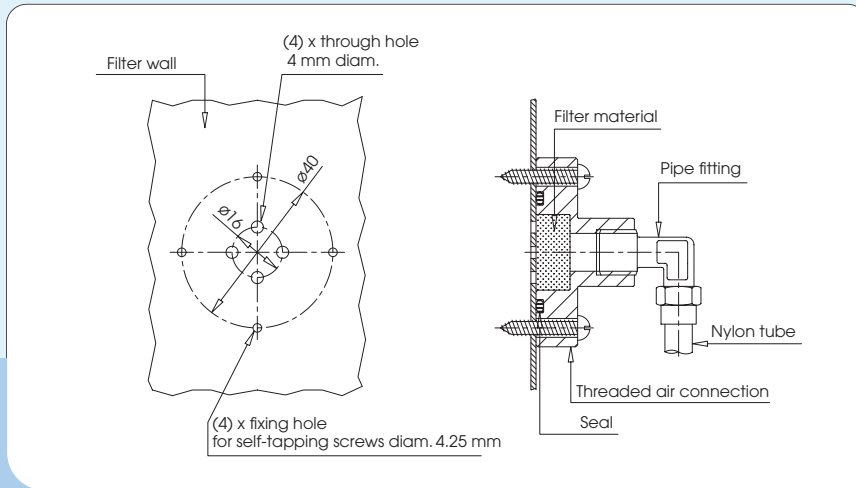
D - FILTERED AIR INTAKES

Model PF4



The air intakes **PF4** are installed on the inlet and outlet of the filter house for the pneumatic connections of the RCM Economist Sequencer.

They are made in anodized aluminium and are always provided with O-ring seal, soft filter material, fixing screws and 90° pipe fittings suitable for 4x6 nylon tube.



SECTION

E

**“DOMINO MINITANK”
FOR SEQUENTIAL CLEANING**

E - MINITANKS FOR SEQUENTIAL CLEANING

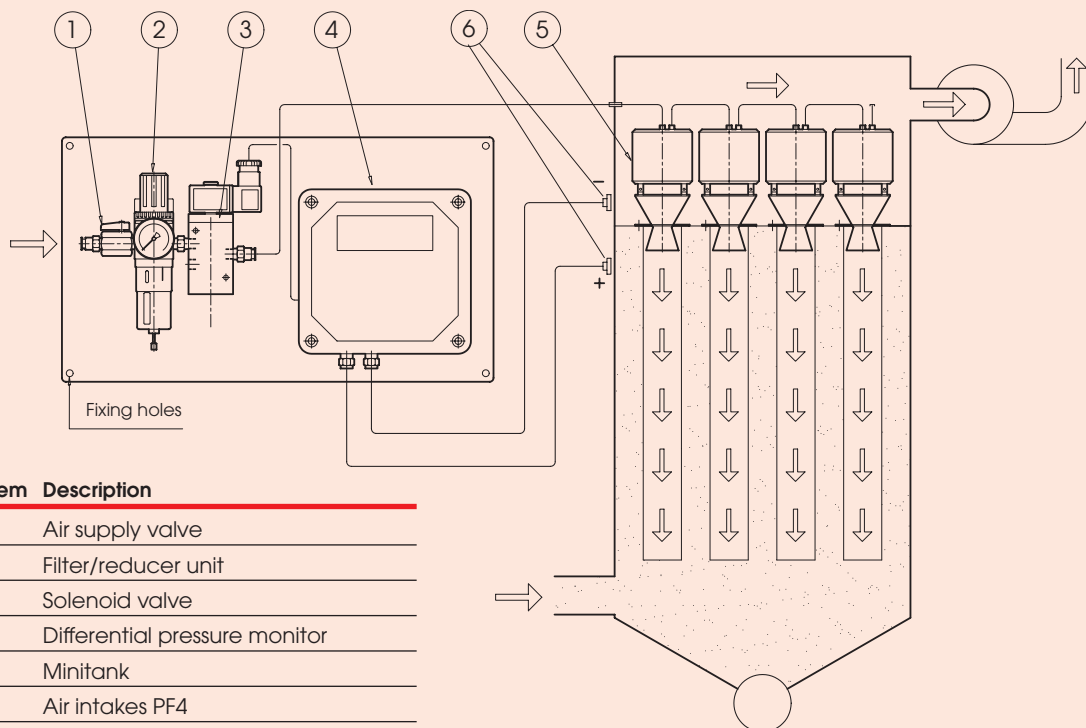
DOMINO PATENTED SYSTEM

The DOMINOMinitanks designed for the sequential cleaning in dust collector filters are available in the following version:

Model D70: tank capacity 7.0 lt.

Main features

- A) The compressed air, supplied to the inlet valve (1), should be dried, filtered and oil free, and not lower than the cleaning pressure of the filter. The pneumatic pipe should not be less than 1/2" diameter.
- B) Filter -Reducer (2) with automatic drain (strongly recommended).
The pressure, properly set to guarantee a proper and steady cleaning with the minimum energy consumption, has to be lower than the supply pressure.
- C) The solenoid valve (3) starts the DOMINO system and is energized by the differential pressure monitor (4), according to the pressure drop through the filter.
The distance between the solenoid valve and the first Minitank (5) should not exceed 1,5 meter.
- D) The differential pressure monitor is connected to the filter through the two air intakes PF4 (6) and is installed in the microprocessor sequencer RCM4 (4), which provides additional control accessories for the running of the filter.
- E) The Minitanks DOMINO are installed directly on to the bags or filter cartridges. All the Minitanks are sequentially connected and sequentially operated whenever the solenoid valve is energized, under the control of the differential pressure monitor.



Item	Description
1	Air supply valve
2	Filter/reducer unit
3	Solenoid valve
4	Differential pressure monitor
5	Minitank
6	Air intakes PF4

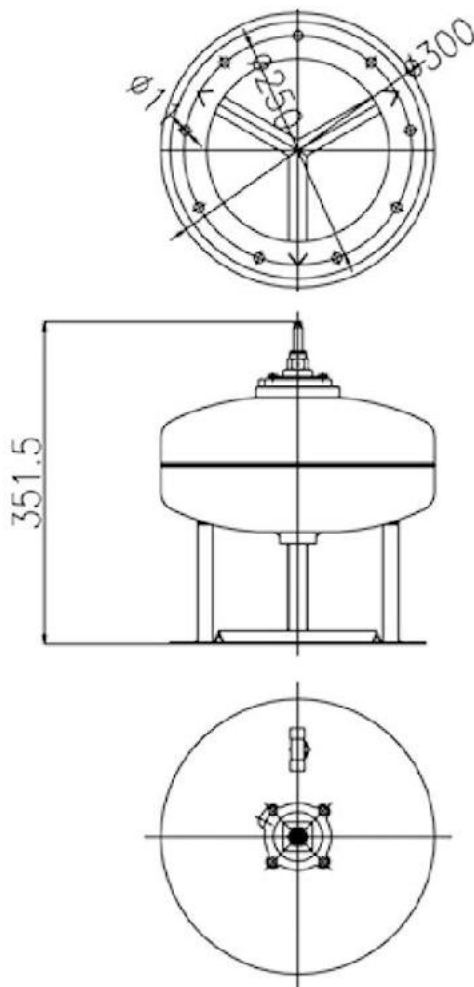
>ITEMS 1-2-3 ARE ASSEMBLED AS A SINGLE MODULE MODEL GA4<
(SEE FOLLOWING PAGES)

DOMINO PATENTED SYSTEM

DOMINO 70

Capacity	lit. 7
Air ports	1/4"
Body	Steel
Venturi	Steel
Maximum temperature	120°
Maximum pressure	7 bar
Seals	Antioil rubber

A richiesta i DOMINO70
sono fornibili
certificati ATEX zona 21



The Minitanks DOMINO are provided with 90° pipe fittings for sequential connections, suitable for pneumatic pipe 6/8 diameter.

Steel parts are polyurethane coated; colour RAL5012.

On request: Maximum pressure valve, calibrated a 6 bar, for the last tank output connection.

SECTION

F

**CONTROL ACCESSORIES FOR
DOMINO MINITANKS**

FILTER/REDUCER UNITS

CYCLICAL TIMER TMA2110

F



The electronic connector model **TMA2110** is a timer with cyclical repetition of control.

The load is supplied directly from the connector.

The timer is provided with two trimmers and one button for the following functions:

Trimmer **ON** = valve energizing time

Trimmer **OFF** = interval between two sequential time

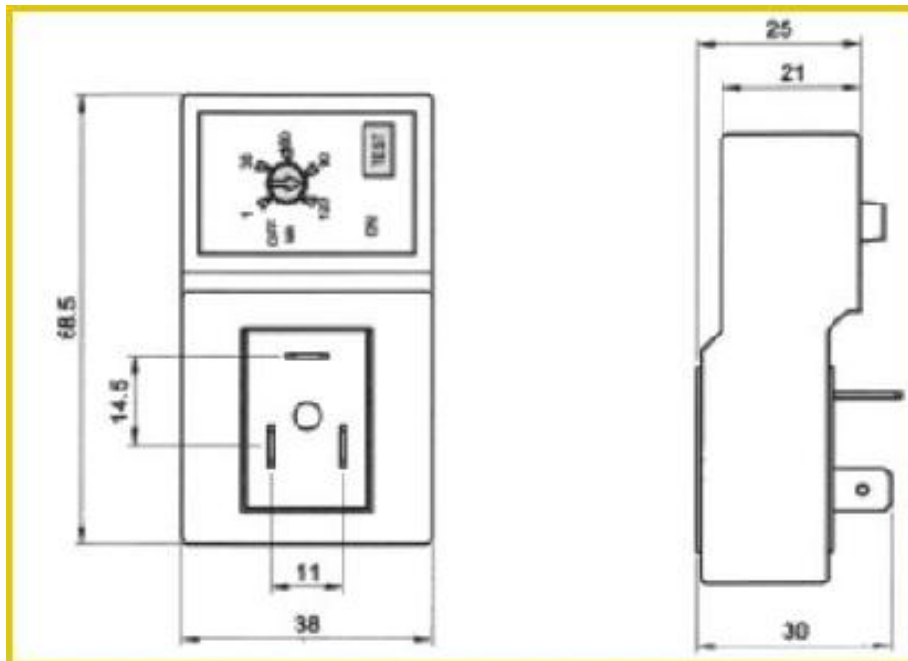
Test **Button** = manual setting of the valve energizing time

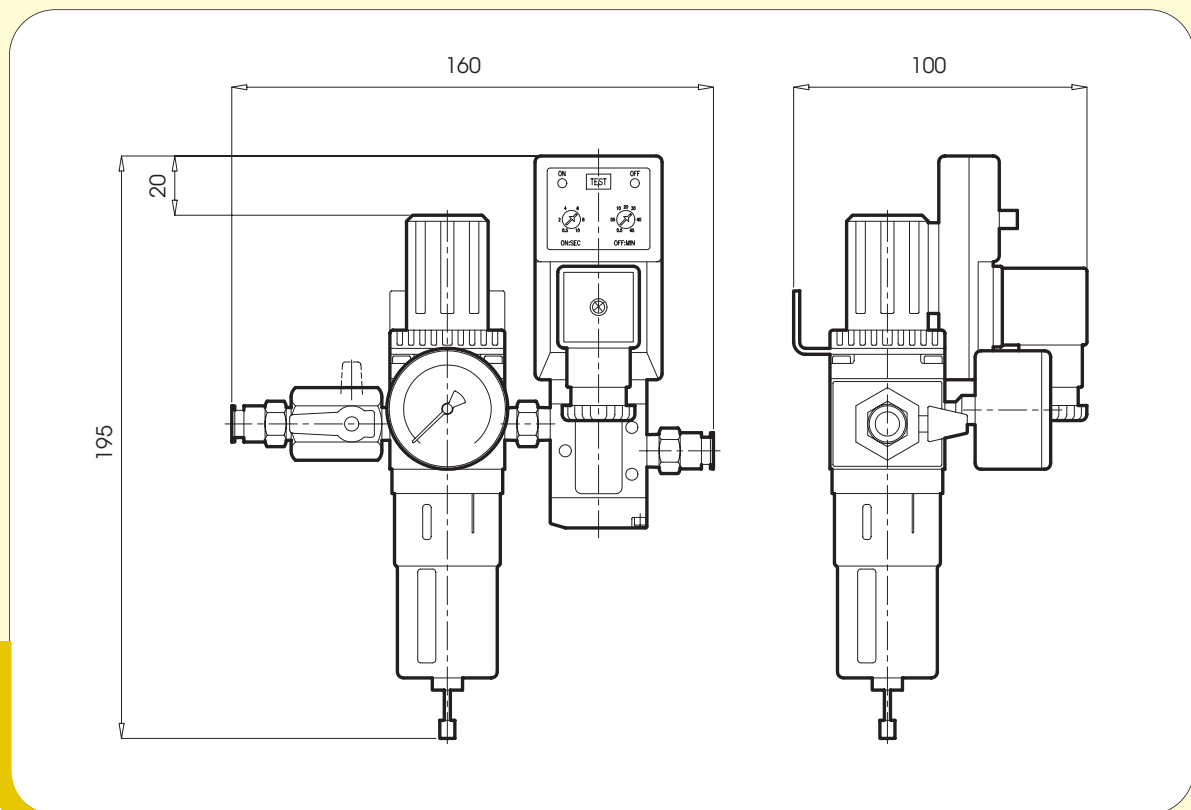
The sequence is repeated for as long as the power supply remains connected.

Two leds are used to show the state of the timer.

Caratteristiche tecniche

Supply voltage	24-240V AC/DC 50/60 Hz
Max current	4mA max.
Operating temperature range	+10°C / -50°C
Current consumption	4 mA max
Conforme alle norme	VDE 0110 - 1/89
Environmental protection	P 65 - EN60529
Start current	1 A per 10 ms
Contact capacity	1 A
OFF time	0,5 - 120 minuti
ON time	2 secondi
Indicators	LED rosso
Manual switch	test
Duty cycle	100% ED
Switch life	3° x 10





The compact and assembled group **GA4** includes:

- 1) Supply valve, size 1/4" (**RS4**)
- 2) Filter/reducer assembly with automatic drain, pressure gage and fixing bracket (**FRM4/A**)
- 3) Cyclical timer (**TMA 1045**)
- 4) Solenoid valve, 3 ways, normally open (**EA8**)
- 5) Fitting for pneumatic pipe 6x8 diameter for connection to the first Minitank.

Add the voltage value at the end of the identification code (**Example: GA4/22050**)

Standard Voltages

02450	=	24V 50 Hz
11050	=	110V 50 Hz
22050	=	220V 50 Hz
024DC	=	24V DC

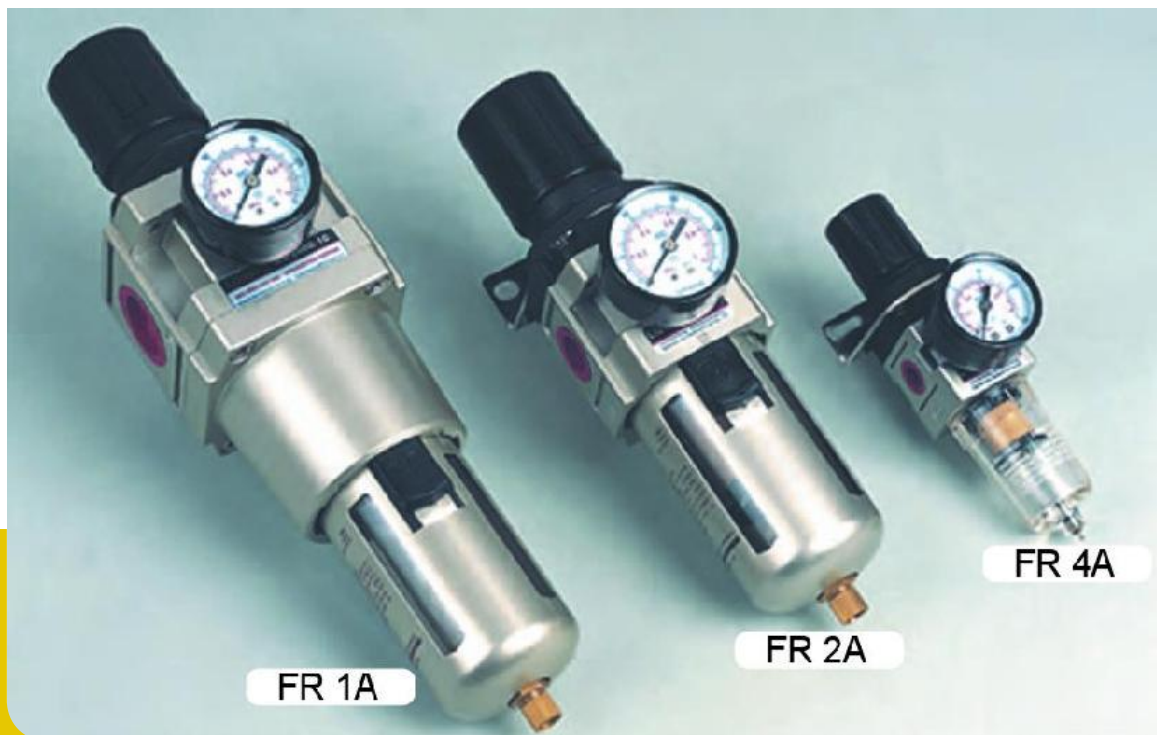
F - CONTROL ACCESSORIES FOR DOMINO MINITANKS

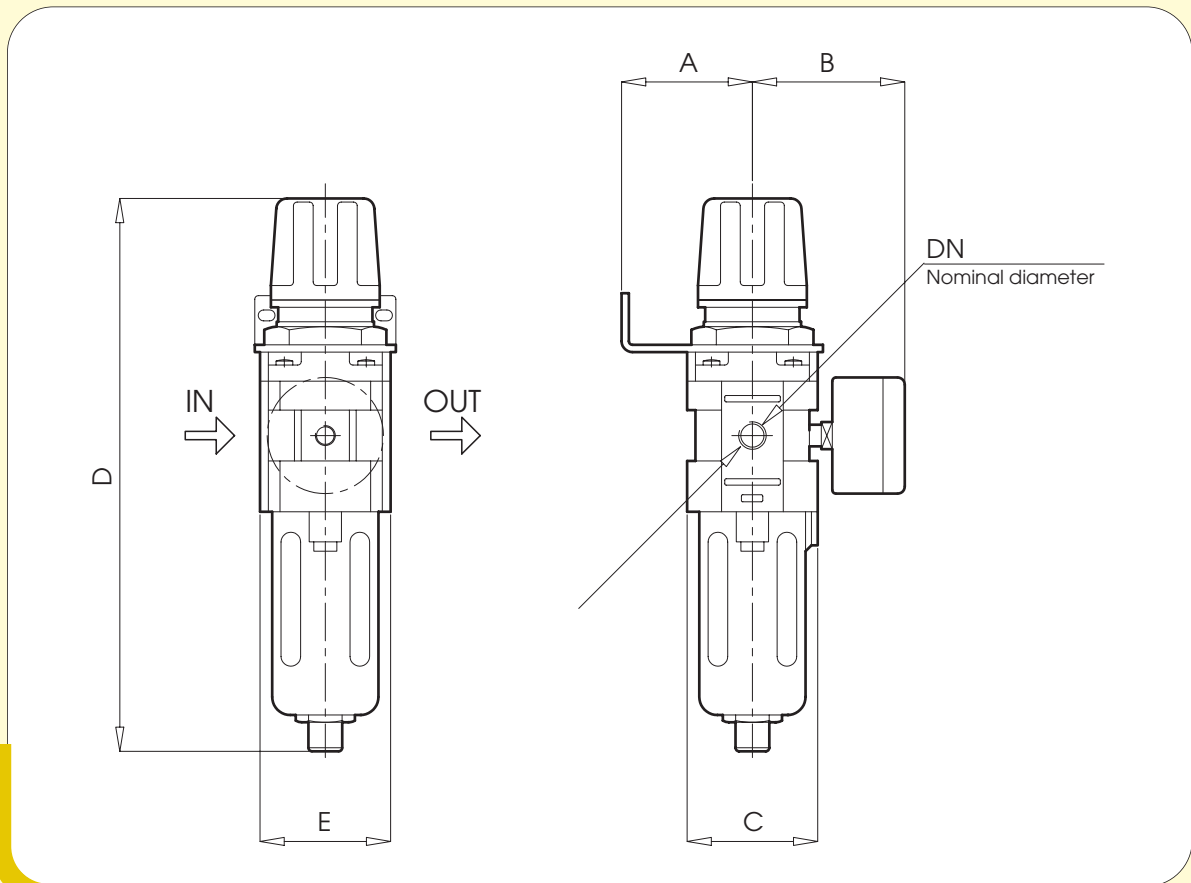
FILTER-REDUCER UNIT WITH AUTOMATIC DRAIN

The use of filter/reducer unit with automatic drain is strongly recommended for the treatment of the compressed air supplied for the cleaning in dust collector filters.

The compressed air must be dried, filtered and oil free and properly set to guarantee a steady cleaning with the minimum power consumption.

The compact units FR series are provided with automatic drain and pressure gauge.





Model	DN	A	B	C	D	E
FR 4A	1/4" G	41	60.8	53	211	53
FR 2A	1/2" G	50	70.5	70	267	75
FR 1A	1" G	50	80.5	90	338	90

Pressure range: 0,5 - 8 BAR



TRIMEC

DUST FILTERS COMPONENTS

TRIMEC S.r.l. - Via Gramsci, 57 - 20032 CORMANO (Milano) - Italy
Phone +39 02 66302616 - Fax +39 02 66302638
info@trimecvalves.com - www.trimecvalves.com

UCT 0208- engl

© - TRIMEC reserves the right to make changes in design and/or construction at any time
without incurring any obligations on units previously sold

TRIMEC

DUST FILTERS COMPONENTS