

5" TANK $\frac{3}{4}$ " VALVE AND 6" TANK 1" VALVE

HEADER TANK SOLUTIONS

MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE HEADER TANK SOLUTIONS

PRODUCT LEAFLET

DESCRIPTION

FULL IMMERSION SYSTEM

The patented Mecair "Full Immersion" System consists of a round header tank with fully integrated diaphragm valves, suitable for dust collector filter applications, in particular for reverse pulse-jet filter cleaning of filter bags, cartridges, envelope filters, ceramic filters and sintered metal fibre filters. The Mecair 500 Series diaphragm valve has been specifically designed to be mounted onto a round header tank. This valve is exclusively a Mecair design and has a worldwide patent. The particular design of the Mecair 500 Series diaphragm valve allows you to fully optimise the increased flow rate and performance this valve has to offer, and also the simple way in which you can mount the header tank onto the filter wall, eliminating the excessive weight of the traditional square header tanks. The Mecair header tanks are manufactured and tested 100%, in accordance with global pressure vessel certificate (CE PED or ASME certified).

STANDARD CARBON STEEL PAINT SPECIFICATION

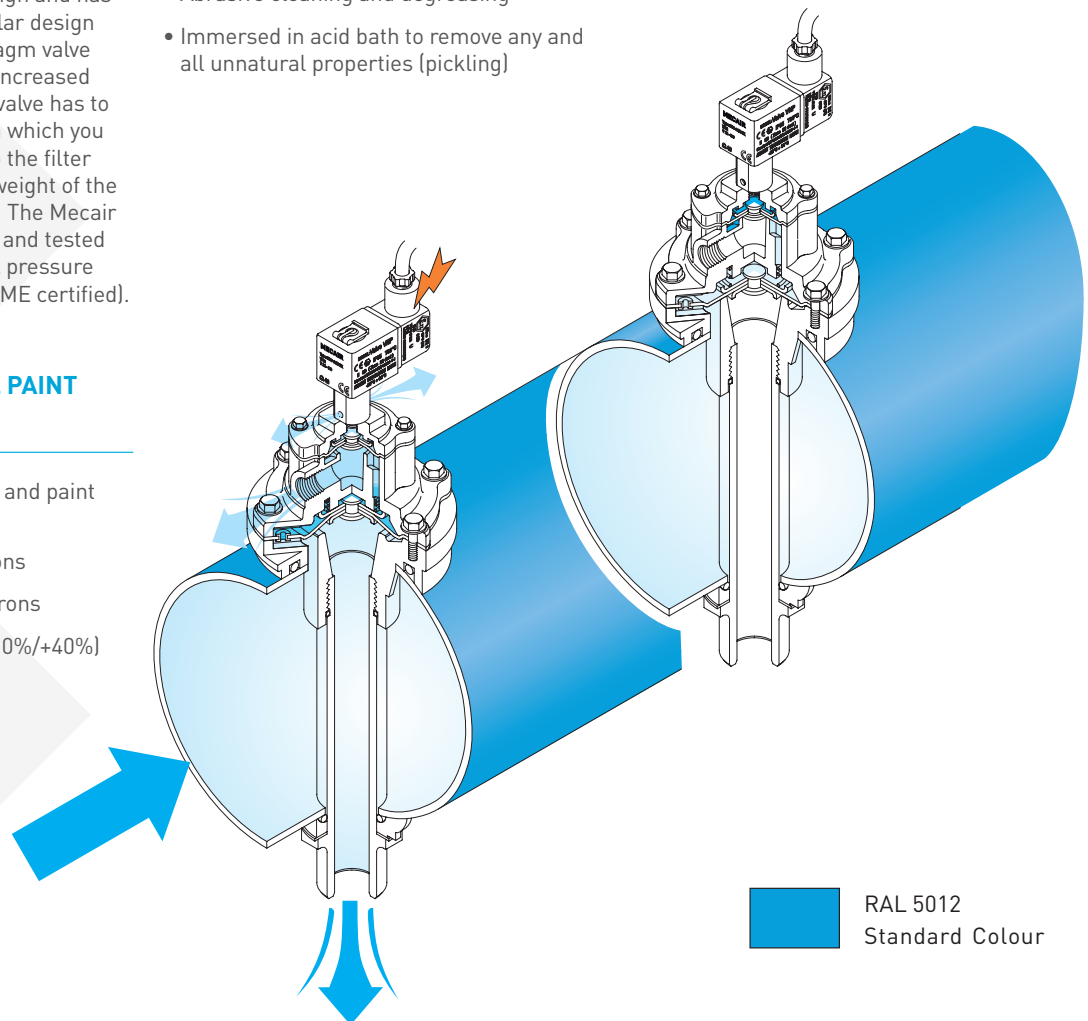
- Abrasive cleaning, degreasing and paint preparation
- Undercoat RAL 7042: 25 microns
- Final colour RAL 5012: 25 microns
- Total thickness 50 microns (-10%/+40%)

FULL IMMERSION STAINLESS STEEL

The Mecair 500 Series diaphragm valve is manufactured from diecast aluminium and is anodised. The valves are mounted on a painted carbon steel, stainless steel or aluminium tank.

TANK PREPARATION SPECIFICATION

- Abrasive cleaning and degreasing
- Immersed in acid bath to remove any and all unnatural properties (pickling)



MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

CODES AND TECHNICAL CHARACTERISTICS

The 500 Series is available in the following versions:

- **VNP**, with integrated solenoid pilot
- **VEM**, with remote pneumatic connection. (upon request, the solenoid enclosures can be mounted and pre-cabled on tank.)

CONSTRUCTION FEATURES - VALVE

TOP COVER	Diecast aluminium (anodised)
BODY	Diecast aluminium (anodised)
PILOT BASE	Brass (chromed)
PILOT	Stainless steel
DIAPHRAGM	NBR
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SPRING	Alloy steel

ELECTRICAL CHARACTERISTICS - SOLENOID

COIL INSULATION	Class H
DIN SOCKET CONNECTOR	PG9 connection
DIN SOCKET SPECIFICATION	EN175301 - 803 / A/ISO 4400
DIN SOCKET OPTIONAL	94/9/CE ATEX II 3GD T6
ISOLATION CLASS DIN SOCKET	VDE 0110 - 1/89
ELECTRICAL PROTECTION	IP65 EN60529
VOLTAGE RANGE	12 V DC [-5%, +20%] 18 W 24 V DC [-5%, +20%] 18 W 48 V DC [-10%, +20%] 18 W 110 V DC [-10%, +20%] 18 W 24 V 50/60 Hz [-10%, +20%] 38/31 VA 48 V 50/60 Hz [-10%, +20%] 41/32 VA 110/127 V 50/60 Hz [-10%, +20%] 63/53 VA 220/240 V 50/60 Hz [-10%, +20%] 46/37 VA

GENERAL CHARACTERISTICS

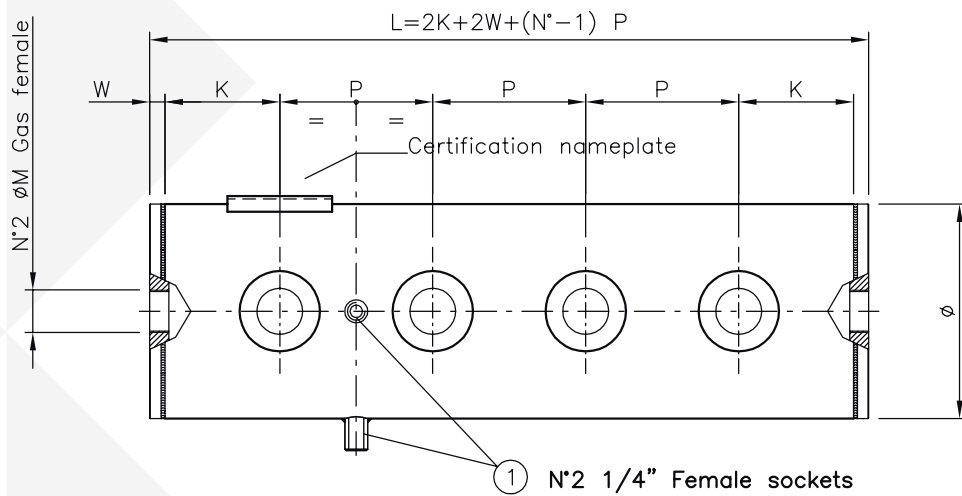
FLUIDS	Filtered air and oil free
DIAPHRAGM	Standard: NBR: -20°C/+120°C Viton: -30°C/+200°C
PRESSURE RANGE	0.5 to 7.5 bar

MODEL	PORT SIZE	NO. DIAPH.	PRESSURE RANGE (BAR)		COIL	KV	CV
			MIN.	MAX.			
VNP506	3/4"	1	0.5	7.5	Yes	15.1	17.5
VNP508	1"	1	0.5	7.5	Yes	26.3	30.6
VEM506	3/4"	1	0.5	7.5	No	15.1	17.5
VEM508	1"	1	0.5	7.5	No	26.3	30.6

MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE HEADER TANK SOLUTIONS

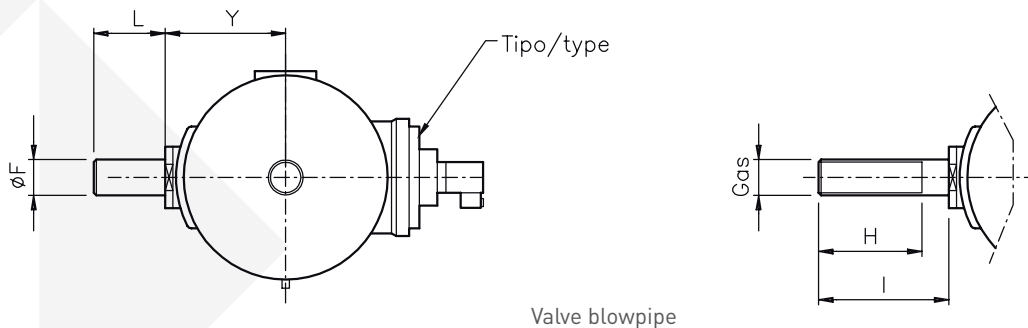
PRODUCT LEAFLET

TANK DIMENSIONS TABLE



						TO BE COMPLETED BY CUSTOMER		
\varnothing TANK	\varnothing VALVE	P MIN.	K MIN.	W	$\varnothing M$	P DISTANCE REQUIRED	N NUMBER OF VALVES	K OPTIONAL
DN5"	3/4"	95	75	15	1"			
DN6"	1"	120	90	15	1"			

* Only available with flat end caps and max. length size 4.6 metres. For lengths superior to those specified, please contact our technical department.



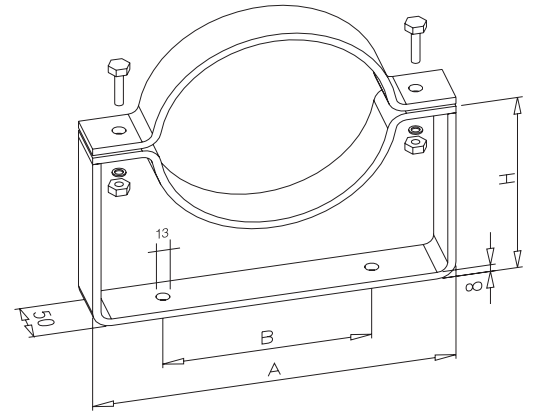
\varnothing TANK	$\varnothing F$	Y	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	$\varnothing G$ GAS	H	I
DN5"	26.7	93	TS506	60	TL506	80	TF506	3/4"	70	80
DN6"	33.4	106	TS508	60	TL508	100	TF508	1"	90	100

MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE HEADER TANK SOLUTIONS

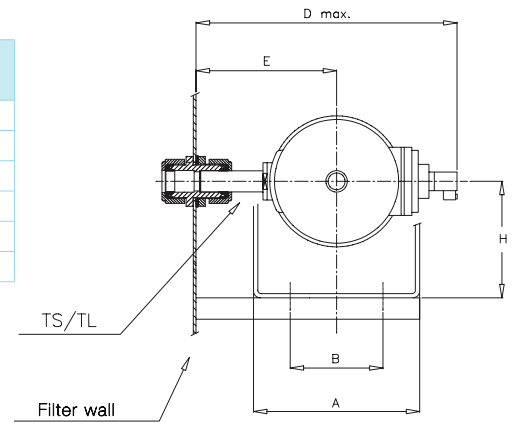
PRODUCT LEAFLET

BRACKET AND BLOWTUBE CONFIGURATIONS

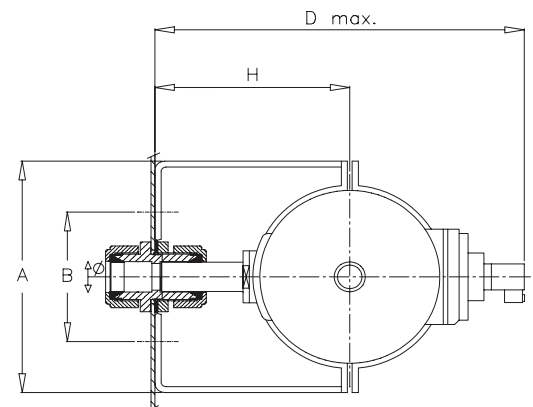
DN TANK	TYPE OF BRACKET	A	B	H
5" (141.3)	TH05	264	150	180
	TM05	264	150	160
	TB05	264	150	95
6" (168.3)	TH06	292	150	200
	TM06	292	150	170
	TB06	292	150	109



DN TANK	TYPE OF BRACKET	VALVE BLOWPIPE	E	D MAX.	VALVE BLOWPIPE	E	D MAX.
5" (141.3)	TH05	TS506	160	305	TL506	180	325
	TM05	TS506	160	305	TL506	180	325
	TB05	TS506	160	305	TL506	180	325
6" (168.3)	TH06	TS508	175	360	TL508	212	400
	TM06	TS508	175	360	TL508	212	400
	TB06	TS508	175	360	TL508	212	400



DN TANK	TYPE OF BRACKET	D MAX.	VALVE BLOWPIPE	Ø
5" (141.3)	TH05	325/360	TL506/558	3/4"
	TM05	305/340	TS506/558	3/4"
6" (168.3)	TM06	360/420	TS508/564	1"

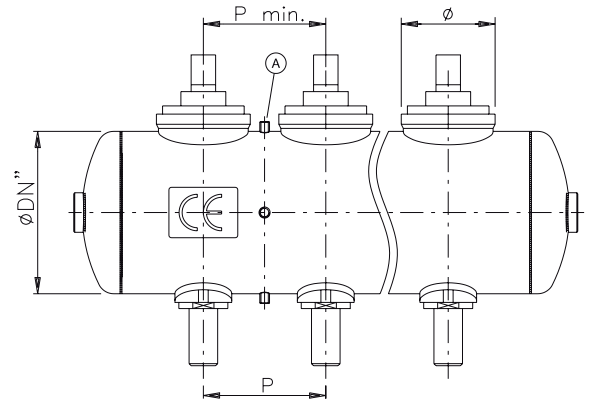


MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE HEADER TANK SOLUTIONS

PRODUCT LEAFLET

TANK ASSEMBLY TABLE

Ø TANK	P MIN.	Ø VALVE BODY	P MIN. FOR INSTALLATION OF STANDARD BRACKETS	P MIN. PIPE STUB A
5" (141.3)	95	80	140	115
6" (168.3)	120	95	150	140



OPERATING RECOMMENDATIONS

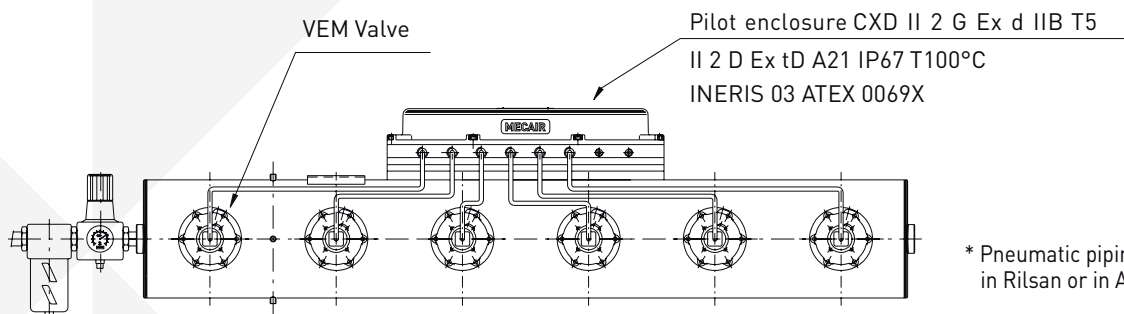
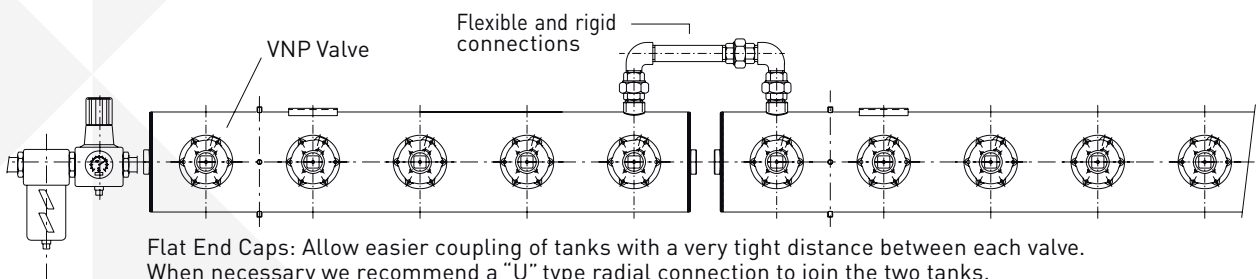
Ensure air supply is clean and dry. (We recommend the installation of compressed-air filter units to be installed directly before the pressure vessel, in order to ensure clean and dry air is supplied to the diaphragm valve). Operating pressure min./ max. 0.5–7.5 bar.

a) **AIR INLET PIPE TO HEADER TANK/ PRESSURE VESSEL:** Minimum \varnothing 1" for tanks with a 1" valve or 1½" valves. We

always recommend the air inlet pipe to tank to be the same size as the diameter of valve being used, or the next available size down. This ensures that the air supply to the tank is sufficient to allow the tank to refill in as short a time as possible. With the correct volume of air in the tank, this ensures the correct and efficient functioning of the diaphragm valve without any waste of compressed air.

b) **ORIENTATION:** Can work in all orientations.

c) **ELECTRICAL ON TIMES AND PULSE TIMES:** For the correct and efficient use of a diaphragm valve, it is important to set the correct pulse times and pause times. Average pulse times range from 100 ms–250 ms depending on size of the valves being used. Pause times also depend on number of valves in the filter, but MECAIR recommends a total cycle time of between 300 and 360 seconds for the total number of valves installed.

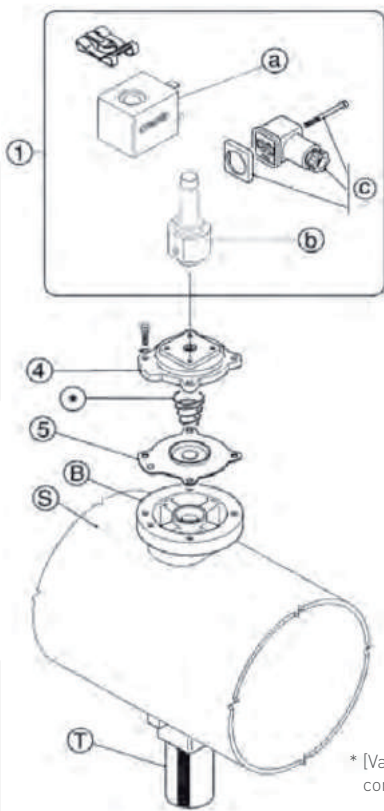


MECAIR - 5" TANK 3/4" VALVE AND 6" TANK 1" VALVE HEADER TANK SOLUTIONS

PRODUCT LEAFLET

SPARE PARTS

VEM/VNP 506 - 508



* [Valve Body(B) + Tank(S) + Valve blowpipe (T) are to be considered single and complete module.] [No spare parts available for this configuration.]

STANDARD VERSION

POS.	DESCRIPTION	CODE
1	a) Solenoid*	a) KIT SB4 - ../..*
	b) Pilot group complete with base and ferrule	b) KIT CP1/4
	c) DIN connector PG9EN175301-803 IP65	c) KIT PLG9

OPTIONAL VERSION

POS.	DESCRIPTION	CODE
1	a) Solenoid	a) KIT SB4 -24/DCX
	b) Pilot group complete with base and ferrule	b) KIT CP1/4
	c) DIN connector PG9EN175301-803 IP65	c) KIT PLG11 - ATEX

In conformity with 94/9/CE ATEX Directive (cod. KIT PV-24/DCX)

POS	DESCRIPTION	CODE	
		VEM/VNP506	VEM/VNP508
1	Pilot group complete with solenoid* and DIN connector	KIT PV - ../..*	KIT PV - ../..*
a+b+4	Pilot group complete with solenoid*, top cover and screws	KIT PVM06 - ../..*	KIT PVM08 - ../..*
4	Top cover	KIT M110082	KIT M10086
5	Diaphragm	KIT DB 16	KIT DB 18

* Specify voltage and frequency

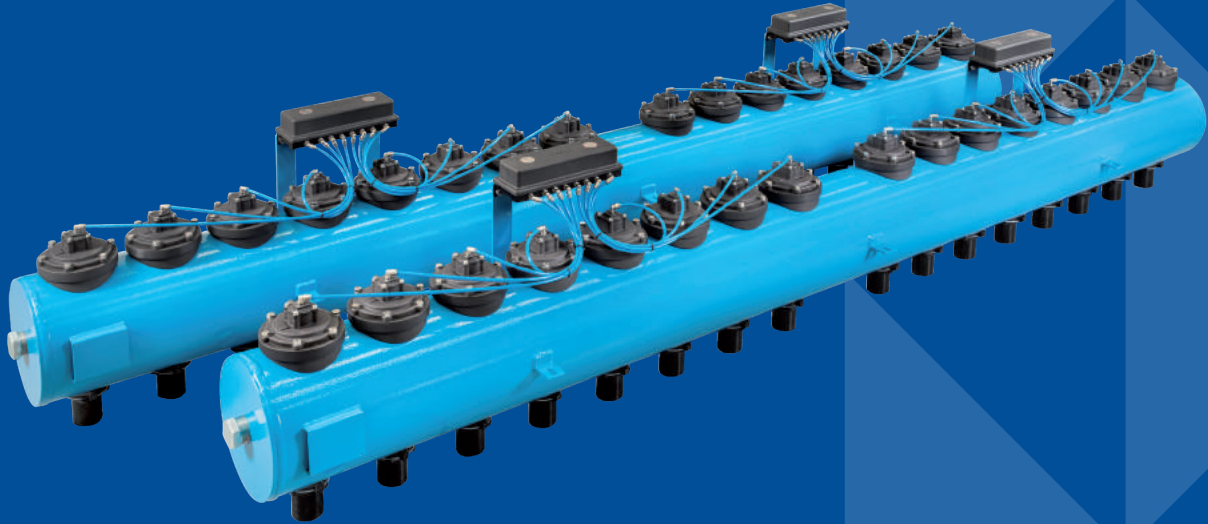


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PL PENTAIR MECAIR HEADER TANK SOLUTIONS 5in T 3/4in V AND 6in T 1in V 3517 © 2017 Pentair. All Rights Reserved.



6 & 8" TANKS WITH 1½" VALVES

HEADER TANK SOLUTIONS

MECAIR - 6 & 8" TANKS WITH 1½" VALVES

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

CLEAN AIR SOLUTIONS BY PENTAIR GOYEN MECAIR

Pentair is the global leader in reliable components, from pulse jet valves and pulse cleaning controllers through to certified engineered header tank solutions with or without full immersion valves. Since 1935, through our globally recognized brands Goyen and Mecair, we have provided engineering partnerships to some of the world's leading dust collector manufacturers.

Our valves deliver the most powerful air pulse. These diaphragm valves are designed for baghouses in which reverse pulse jet systems clean the filters, including all bag filters, cartridge filters, envelope filters, ceramic filters and sintered metal fiber filters.

Their tough and reliable design has led to their use in high-performance systems around the world to control the dispersion of noxious substances, improve indoor air quality in workplaces, or prevent harmful dust emissions. Advanced technology makes them suitable for demanding industries and processes, including:

- cement production
- mining applications
- silo and conveyor systems, bulk goods handling
- general industrial dust collection
- improving indoor workplace air quality
- preventing harmful emissions
- in the power industry, protecting boilers and gas turbines from dust particles

With quality being one of core strengths we are accredited with CSA, UL, CE, ATEX and ISO 9001, and our focus on environmental solutions means that we are ISO14001 accredited.

We support this process through our specialised software GOCO as part of our consultation and provide additional performance testing and modelling using computational fluid dynamics to ensure we:

- eliminate risk in your systems
- minimise your operating costs
- increase your filter life

Goyen and Mecair's advanced application expertise, along with our wide product range and global reach, has allowed us to maintain our valuable long-term customer partnerships based on innovation, experience and engineering trust.

MECAIR - 6 & 8" TANKS WITH 1½" VALVES

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

The 1.5" port Mecair Full Immersion 512G and 514G Series technologies are high-performance filter cleaning systems delivering high filter cleaning flow rates and precise control of air consumption through the use of a super-responsive diaphragm assembly. These systems are widely implemented throughout industrial air filtration applications as well as for self-cleaning gas turbine intake filter systems. The Full Immersion is available with stainless steel or carbon steel tanks, in a variety of surface treatments, to meet PED or ASME certifications as required.

BENEFITS

- Exceptional service life
- Suitable for bag, cartridge and envelope filters
- Available with remote pilot or integral pilot arrangements
- High-quality precision seal and premium fabric-reinforced Nitrile diaphragm
- Proven longevity under typical operating conditions

TANK CERTIFICATIONS AVAILABLE

- 97/23/EC (PED)
- ASME VIII div.1 (U_Stamp; UM_Stamp)
- TR CERTIFICATION
- 94/9/EC ATEX DIRECTIVE



CODES & TECHNICAL CHARACTERISTICS

Part Number Code:

S E 14 C 2 0 N04 P180 M 5

End caps

- S** Flat (Mecair name plate)
- G** Flat (Goyen name plate)

Valve

- E** VEM - Remote pilot
- N** VNP - Integral pilot

Valve size and tank

- 12** 1.5" single-stage valve, 8" tank
- 14** 1.5" dual-stage valve, 8" tank
- 62** 1.5" single-stage valve, 6" tank
- 64** 1.5" dual-stage valve, 6" tank

Pilot/Exhaust Thread Type

- 0** NPT
 - 1** RC
 - 2** G
- } Cover 3/8"

Diaphragm material

- 0** Nitrile membrane, Akulon seat, Standard Temp (-40°C to +82°C)
- 1** Viton membrane, Viton rubberised seat, Aggressive service (-40°C to +232°C)
- 4** Low temperature, Nitrile membrane, Polyethylene seat, Low temp: -60°C to +82°C

Voltage options (Only if integrally piloted)

- 3** Dual rating: 110 V DC
220/240 V 50/60 Hz
- 4** Dual rating: 48 V DC
115 V 50/60 Hz
- 5** Dual rating: 24 V DC
48 V 50/60 Hz
- 6** Dual rating: 12 V DC
24 V 50/60 Hz

Solenoid (Only if integrally piloted)

- M** SB4 Series

Pitch

140 Minimum

valves

N01, N02, etc.

MECAIR - 6 & 8" TANKS WITH 1½" VALVES

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

DIAPHRAGM KIT NUMBERS

514G & 564G KIT K514G	512G & 562G KIT K512G
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CONSTRUCTION FEATURES - VALVE

TOP COVER	Diecast aluminium (E-coat black)
BODY	Diecast aluminium (E-coat black)
PILOT BASE	Aluminium (anodised)
PILOT	Stainless steel
DIAPHRAGM	Nitrile (standard) Viton (optional)
DIAPHRAGM SEAT	Nylon (standard)
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SPRING	Stainless steel

TANK CHARACTERISTICS

CARBON STEEL	-10°C to 70°C
STAINLESS STEEL	-20°C to 70°C
PRESSURE RANGE	1 bar to 8.0 bar

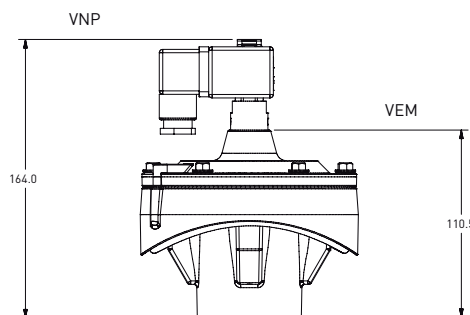
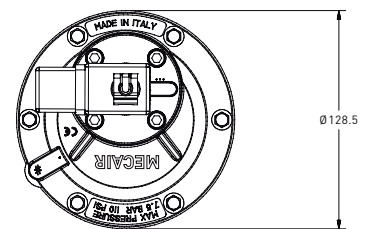
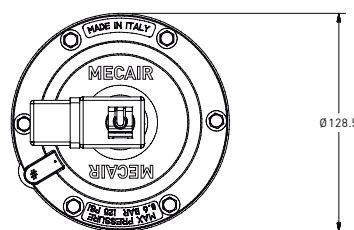
When specifying the system, check temperature and pressure limits for tank, diaphragm and solenoids.

Different temperature ranges may be available; please consult your options with Mecair.

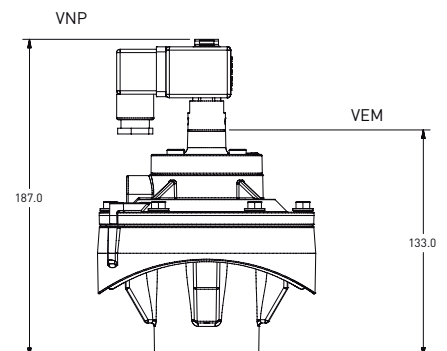
ELECTRICAL CHARACTERISTICS - SOLENOID

DIN SOCKET CONNECTOR	PG9 connection
DIN SOCKET SPECIFICATION	EN175301 - 803 / A/ISO 4400
DIN SOCKET OPTIONAL	94/9/CE ATEX II 3GD T6
ISOLATION CLASS DIN SOCKET	VDE 0110 - 1/89
ELECTRICAL PROTECTION	IP65 EN60529
VOLTAGE RANGE	12 V DC (-5%, +20%) 18 W 24 V DC (-5%, +20%) 18 W 48 V DC (-10%, +20%) 18 W 110 V DC (-10%, +20%) 18 W 24 V 50/60 Hz (-10%, +20%) 38/31 VA 48 V 50/60 Hz (-10%, +20%) 41/32 VA 110/127 V 50/60 Hz (-10%, +20%) 63/53 VA 220/240 V 50/60 Hz (-10%, +20%) 46/37 VA

MODEL	PORT SIZE	NO. DIAPH.	PRESSURE RANGE (BAR)		COIL	KV	CV
			MIN.	MAX.			
VEM512G	1½"	1	1	8.6	No	51	59
VEM514G	1½"	2	1	8.6	No	52	60
VNP512G	1½"	1	1	8.6	Yes	51	59
VNP514G	1½"	2	1	8.6	Yes	52	60
VEM562G	1½"	1	1	8.6	No	51	59
VEM564G	1½"	2	1	8.6	No	52	60
VNP562G	1½"	1	1	8.6	Yes	51	59
VNP564G	1½"	2	1	8.6	Yes	52	60



512G



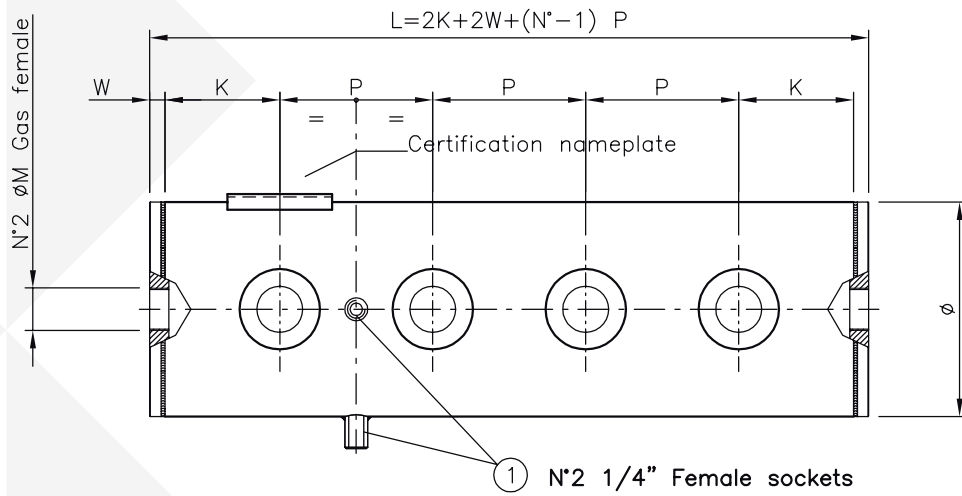
514G

MECAIR - 6 & 8" TANKS WITH 1½" VALVES

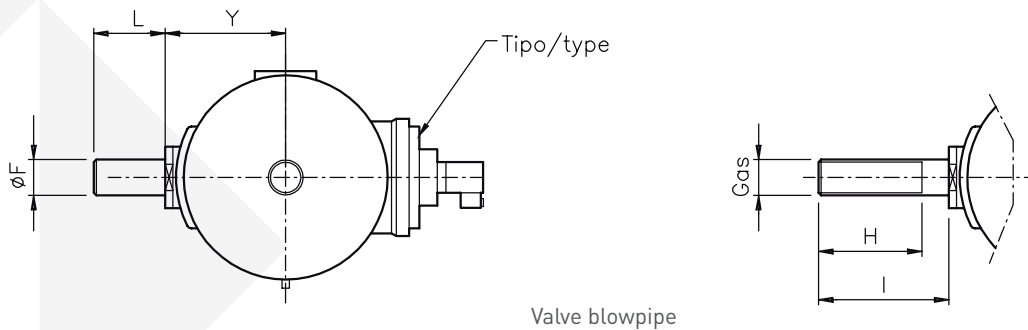
HEADER TANK SOLUTIONS

PRODUCT LEAFLET

TANK DIMENSIONS TABLE



Ø TANK	Ø VALVE	P MIN.	K MIN.	W	Ø M	TO BE COMPLETED BY CUSTOMER		
						P DISTANCE REQUIRED	N NUMBER OF VALVES	K OPTIONAL
DN6"	1½"	135	90	12	1"			
DN8"	1½"	135	90	16	1½"			



Ø TANK	Ø F	Y	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	H	I
DN6"	48.3	106	TS564	60	TL564	120	TF564	1½"	110	120
DN8"	48.3	131	TS514	60	TL514	120	TF514	1½"	110	120

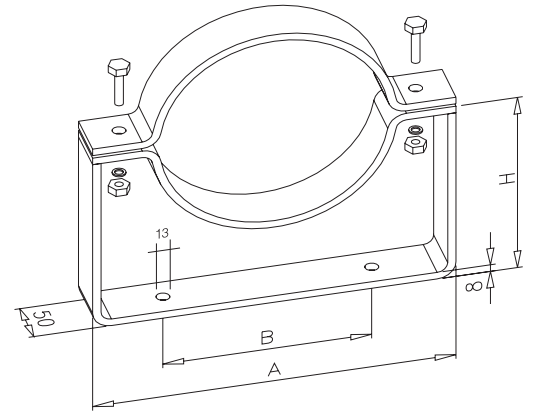
MECAIR - 6 & 8" TANKS WITH 1½" VALVES

HEADER TANK SOLUTIONS

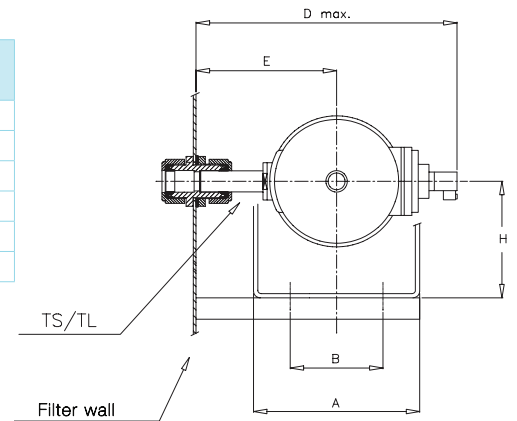
PRODUCT LEAFLET

BRACKET AND OUTLET PIPES CONFIGURATIONS

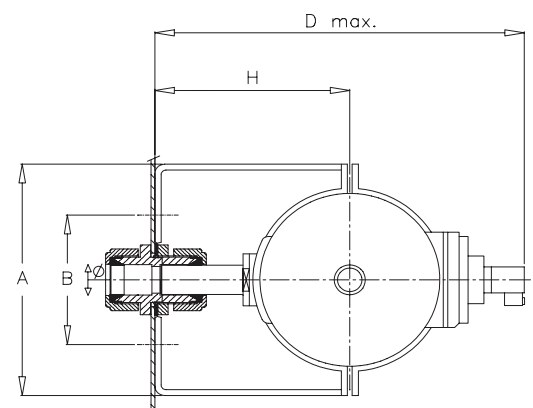
DN TANK	TYPE OF BRACKET	A	B	H
6"	TH06	292	150	200
	TM06	292	150	170
	TB06	292	150	109
8"	TH08	348	200	270
	TM08	348	200	210
	TB08	348	200	134



DN TANK	TYPE OF BRACKET	VALVE BLOWPIPE	E	D MAX.	VALVE BLOWPIPE	E	D MAX.
6"	TH06	TS564	175	425	TL564	212	465
	TM06	TS564	175	425	TL564	212	465
	TB06	TS564	175	425	TL564	212	465
8"	TH08	TS514	210	460	TL514	270	520
	TM08	TS514	210	460	TL514	270	520
	TB08	TS514	210	460	TL514	270	520



DN TANK	TYPE OF BRACKET	D MAX.	VALVE BLOWPIPE	Ø
6"	TM06	420	TS564	1"
8"	TH08	520	TL514	1½"
	TM08	460	TS514	1½"





MECAIR SRL

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10" TANK WITH 2" VALVE

HEADER TANK SOLUTIONS

MECAIR - 10" TANK WITH 2" VALVE

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

DESCRIPTION

FULL IMMERSION SYSTEM

The patented Mecair "Full Immersion" System consists of a round header tank with fully integrated diaphragm valves, suitable for dust collector filter applications, in particular for reverse pulse-jet filter cleaning of filter bags, cartridges, envelope filters, ceramic filters and sintered metal fibre filters. The Mecair 500 Series diaphragm valve has been specifically designed to be mounted onto a round header tank. This valve is exclusively a Mecair design and has a worldwide patent. The particular design of the Mecair 500 Series diaphragm valve allows you to fully optimise the increased flow rate and performance this valve has to offer, and also the simple way in which you can mount the header tank onto the filter wall, eliminating the excessive weight of the traditional square header tanks. The Mecair header tanks are manufactured and tested 100%, in accordance with global pressure vessel certificate (CE PED or ASME certified).

STANDARD CARBON STEEL PAINT SPECIFICATION

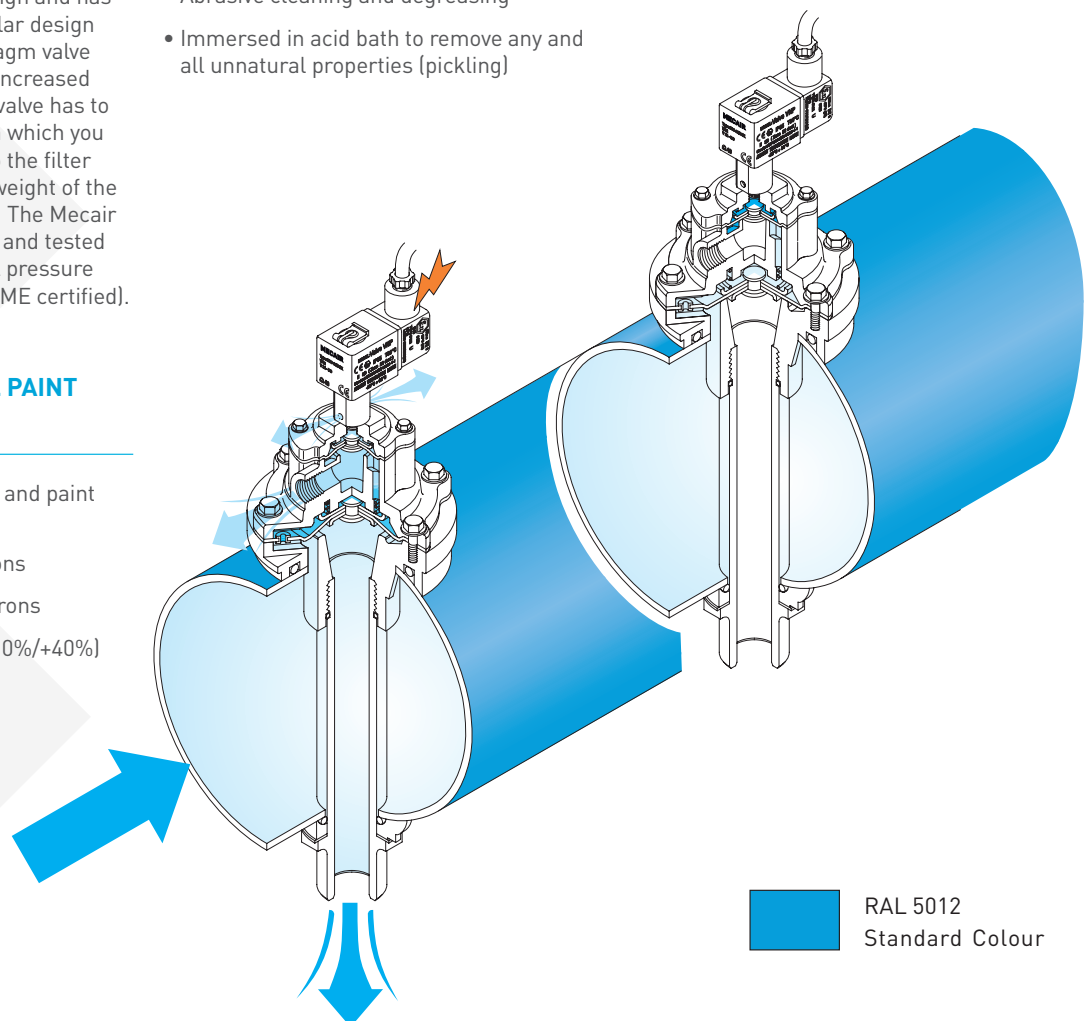
- Abrasive cleaning, degreasing and paint preparation
- Undercoat RAL 7042: 25 microns
- Final colour RAL 5012: 25 microns
- Total thickness 50 microns (-10%/+40%)

FULL IMMERSION STAINLESS STEEL

The Mecair 500 Series diaphragm valve is manufactured from diecast aluminium and is anodised. The valves are mounted on a painted carbon steel, stainless steel or aluminium tank.

TANK PREPARATION SPECIFICATION

- Abrasive cleaning and degreasing
- Immersed in acid bath to remove any and all unnatural properties (pickling)



MECAIR - 10" TANK WITH 2" VALVE

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

CODES AND TECHNICAL CHARACTERISTICS

The 500 Series is available in the following versions:

- **VNP**, with integrated solenoid pilot
- **VEM**, with remote pneumatic connection. (upon request, the solenoid enclosures can be mounted and pre-cabled on tank.)

CONSTRUCTION FEATURES - VALVE

TOP COVER	Diecast aluminium (anodised)
BODY	Diecast aluminium (anodised)
PILOT BASE	Brass (chromed)
PILOT	Stainless steel
DIAPHRAGM	NBR
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SPRING	Alloy steel

ELECTRICAL CHARACTERISTICS - SOLENOID

COIL INSULATION	Class H
DIN SOCKET CONNECTOR	PG9 connection
DIN SOCKET SPECIFICATION	EN175301 - 803 / A/ISO 4400
DIN SOCKET OPTIONAL	94/9/CE ATEX II 3GD T6
ISOLATION CLASS DIN SOCKET	VDE 0110 - 1/89
ELECTRICAL PROTECTION	IP65 EN60529
VOLTAGE RANGE	12 V DC [-5%, +20%] 18 W 24 V DC [-5%, +20%] 18 W 48 V DC [-10%, +20%] 18 W 110 V DC [-10%, +20%] 18 W 24 V 50/60 Hz [-10%, +20%] 38/31 VA 48 V 50/60 Hz [-10%, +20%] 41/32 VA 115 V 50/60 Hz [-10%, +20%] 63/53 VA 220/240 V 50/60 Hz [-10%, +20%] 46/37 VA

GENERAL CHARACTERISTICS

FLUIDS	Filtered air and oil free
DIAPHRAGM	Standard: NBR: -20°C/+120°C Viton: -30°C/+200°C
PRESSURE RANGE	0.5 to 7.5 bar

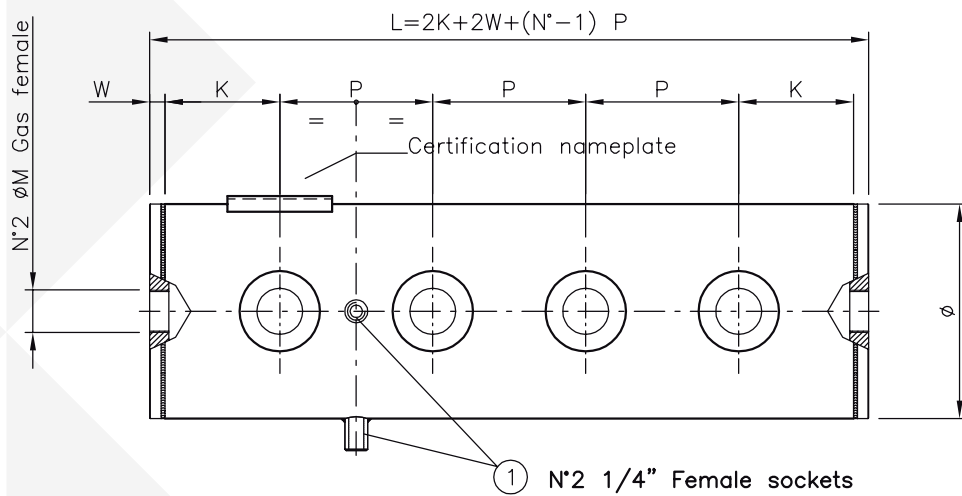
MODEL	PORT SIZE	NO. DIAPH.	PRESSURE RANGE [BAR]		COIL	KV	CV
			MIN.	MAX.			
VNP516	2"	2	0.5	7.5	Yes	110	128
VEM516	2"	2	0.5	7.5	No	110	128

MECAIR - 10" TANK WITH 2" VALVE

HEADER TANK SOLUTIONS

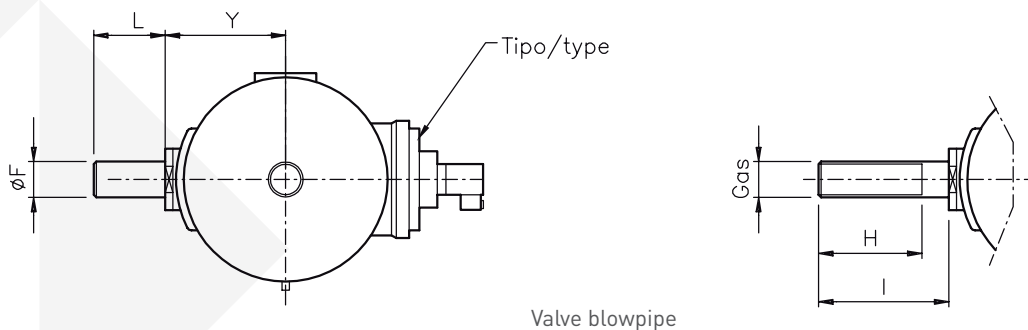
PRODUCT LEAFLET

TANK DIMENSIONS TABLE



						TO BE COMPLETED BY CUSTOMER		
Ø TANK	Ø VALVE	P MIN.	K MIN.	W	Ø M	P DISTANCE REQUIRED	N NUMBER OF VALVES	K OPTIONAL
DN10"	2"	180	115	18	1½"			

* Only available with flat end caps and max. length size 4.6 metres. For lengths superior to those specified, please contact our technical department.



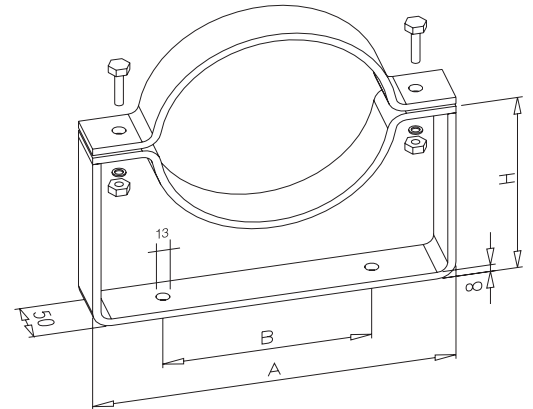
Ø TANK	Ø F	Y	SHORT UNTHREADED	L	LONG UNTHREADED	L	SHORT THREADED	Ø G GAS	H	I
DN10"	60.3	158	TS516	60	TL516	140	TF516	2"	130	140

MECAIR - 10" TANK WITH 2" VALVE HEADER TANK SOLUTIONS

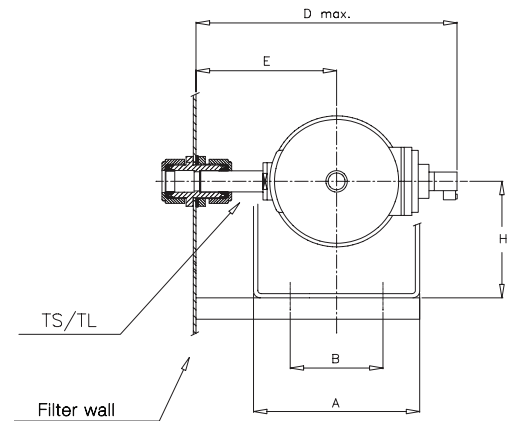
PRODUCT LEAFLET

BRACKET AND BLOWTUBE CONFIGURATIONS

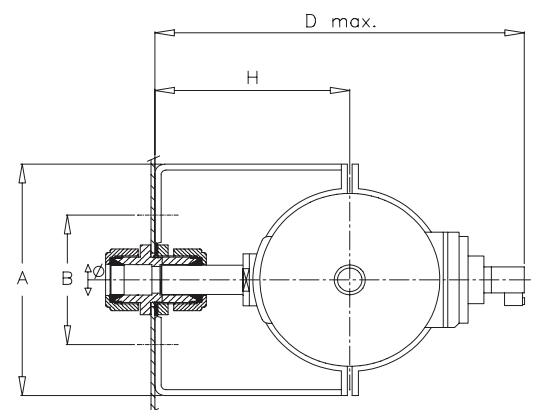
DN TANK	TYPE OF BRACKET	A	B	H
10" [273]	TH10	424	250	290
	TB10	424	250	161



DN TANK	TYPE OF BRACKET	VALVE BLOWPIPE	E	D MAX.
10" [273]	TH10	TL516	280	550
	TB10	TL516	280	550



DN TANK	TYPE OF BRACKET	D MAX.	VALVE BLOWPIPE	Ø
10" [273]	TH10	560	TL516	2"



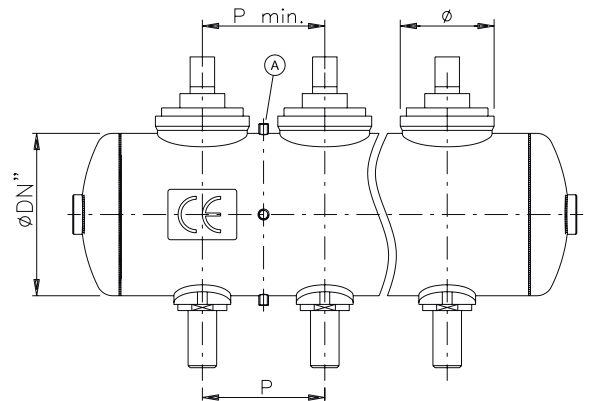
MECAIR - 10" TANK WITH 2" VALVE

HEADER TANK SOLUTIONS

PRODUCT LEAFLET

TANK ASSEMBLY TABLE

Ø TANK	P MIN.	Ø VALVE BODY	P MIN. FOR INSTALLATION OF STANDARD BRACKETS	P MIN. PIPE STUB A
DN 10" [273]	180	170	230	200



OPERATING RECOMMENDATIONS

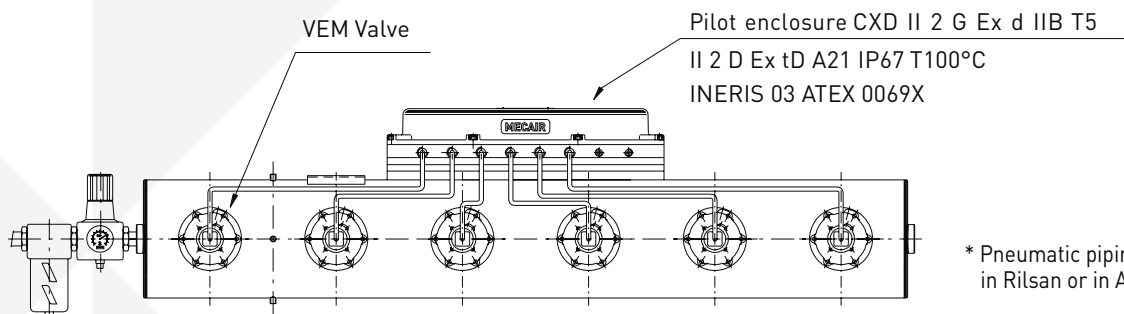
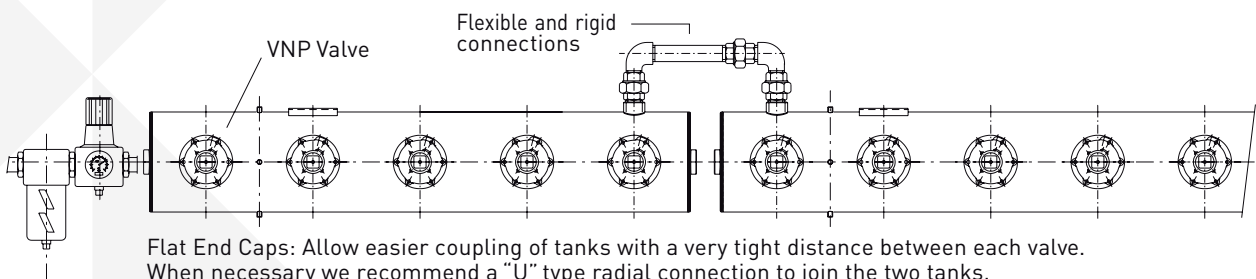
Ensure air supply is clean and dry. (We recommend the installation of compressed-air filter units to be installed directly before the pressure vessel, in order to ensure clean and dry air is supplied to the diaphragm valve). Operating pressure min./ max. 0.5–7.5 bar.

a) **AIR INLET PIPE TO HEADER TANK/ PRESSURE VESSEL:** Minimum \varnothing 1" for tanks with a 1" valve or 1½" valves. We

always recommend the air inlet pipe to tank to be the same size as the diameter of valve being used, or the next available size down. This ensures that the air supply to the tank is sufficient to allow the tank to refill in as short a time as possible. With the correct volume of air in the tank, this ensures the correct and efficient functioning of the diaphragm valve without any waste of compressed air.

b) **ORIENTATION:** Can work in all orientations.

c) **ELECTRICAL ON TIMES AND PULSE TIMES:** For the correct and efficient use of a diaphragm valve, it is important to set the correct pulse times and pause times. Average pulse times range from 100 ms–250 ms depending on size of the valves being used. Pause times also depend on number of valves in the filter, but MECAIR recommends a total cycle time of between 300 and 360 seconds for the total number of valves installed.



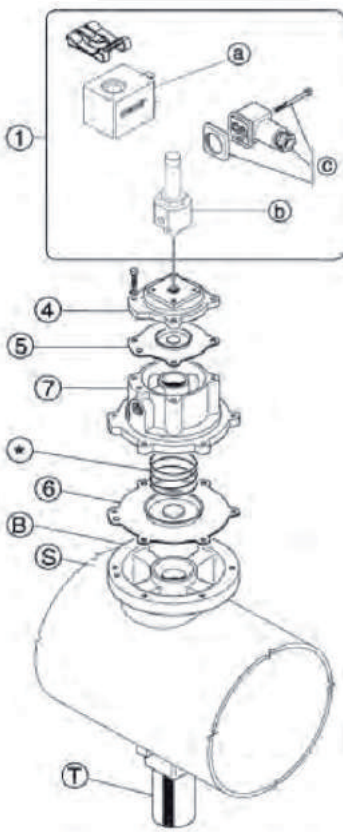
* Pneumatic piping on valves can be in Rilsan or in AISI (stainless steel)

MECAIR - 10" TANK WITH 2" VALVE HEADER TANK SOLUTIONS

PRODUCT LEAFLET

SPARE PARTS

VEM / VNP 516



* Code for Spring M470568 for model VEM/VNP 512-514-516-520-524
For VEM/VNP506-508-512 with Viton diaphragm, code for spring M470200
[Valve Body(B) + Tank(S) + Valve blowpipe (T) are to be considered single and complete module.] (No spare parts available for this configuration.)

STANDARD VERSION

POS.	DESCRIPTION	CODE
1	a) Solenoid*	a) KIT SB4 - ../..*
	b) Pilot group complete with base and ferrule	b) KIT CP1/4
	c) DIN connector PG9EN175301-803 IP65	c) KIT PLG9

OPTIONAL VERSION

POS.	DESCRIPTION	CODE
1	a) Solenoid	a) KIT SB4 -24/DCX
	b) Pilot group complete with base and ferrule	b) KIT CP1/4
	c) DIN connector PG9EN175301-803 IP65	c) KIT PLG11 – ATEX

In conformity with 94/9/CE ATEX Directive (cod. KIT PV-24/DCX)

POS	DESCRIPTION	CODE VEM/VNP516
1	Pilot group complete with solenoid* and DIN connector	KIT PV - ../..*
a+b+4	Pilot group complete with solenoid*, top cover and screws	KIT PVM06 - ../..*
4	Top cover	KIT M110082
5	Diaphragm	KIT DB 16
6	Diaphragm (secondary)	KIT DB 116
7	Intermediate cover (double diaphragm)	KIT M310100

* Specify voltage and frequency



MECAIR SRL

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Note: The information and data contained in this document are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide a guideline for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing industrial property rights must be observed.
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