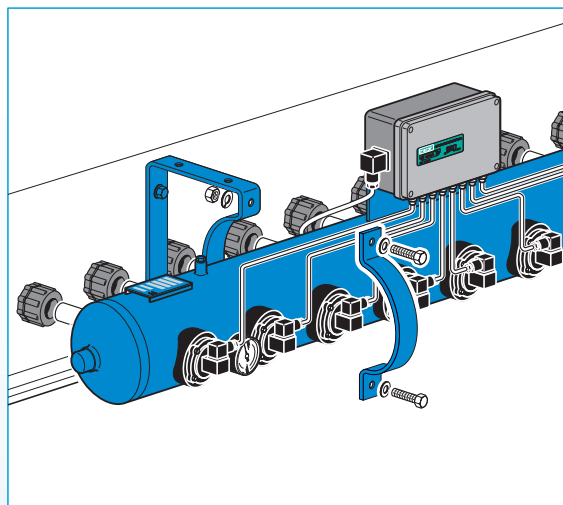
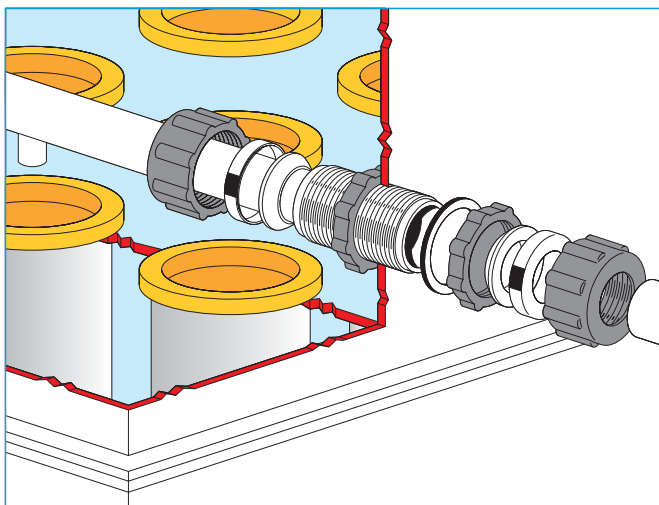




High Efficiency
***“Full Immersion”* system**
complete with CE certified header tank
In accordance to 87/404/CEE, 90/488/CEE
and 97/23/CE (PED)



mecair® Via per Cinisello, 97
20054 Nova Milanese
(Milano) ITALY
Phone +39 0362 3751
Fax +39 0362 367279

ATTUAZIONE DIRETTIVE
ACCORDING TO 90/488/C

T min. T max.

Max Pressure Capacity

Test Pressure Liquid

Serial No. Type

CE Ente Anno / Year

mecair® Via per Cinisello, 97
20054 Nova Milanese
(Milano) ITALY
Phone +39 0362 3751
Fax +39 0362 367279

WELDED PRESSURE VESSEL
ACCORDING TO 97/23/EC (PED)

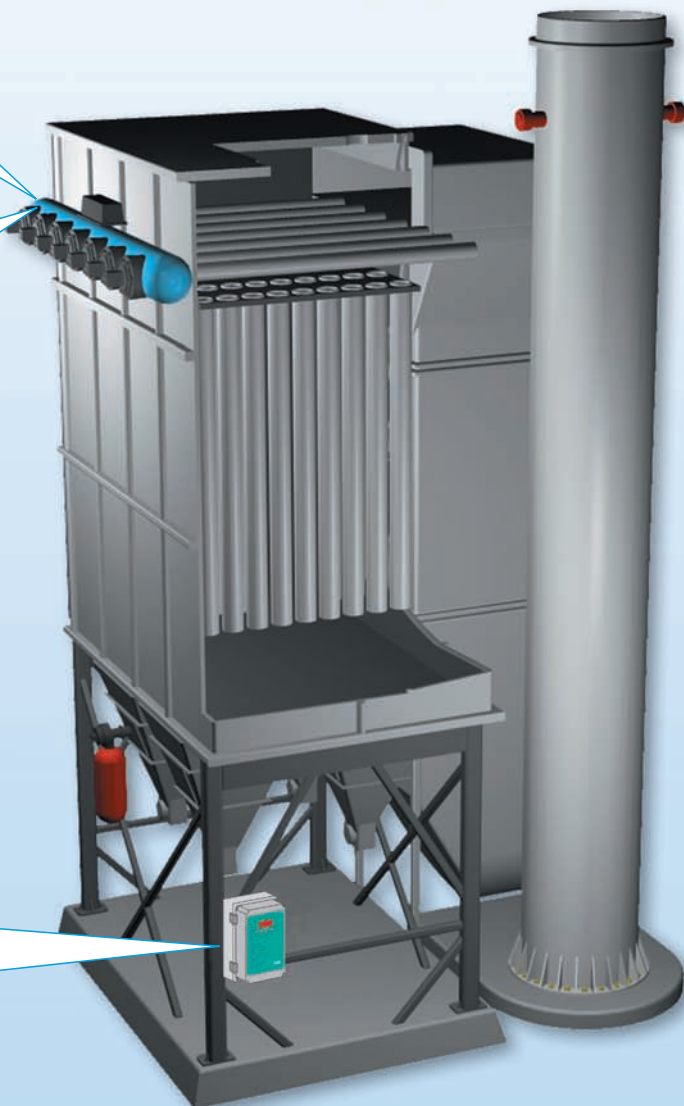
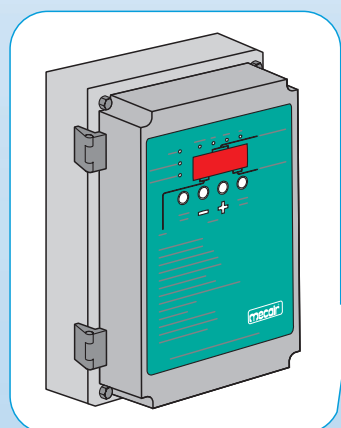
Capacity

T min. T max.

PS Ph

Serial N. Type

CE N.B. Yr. of Manuf.



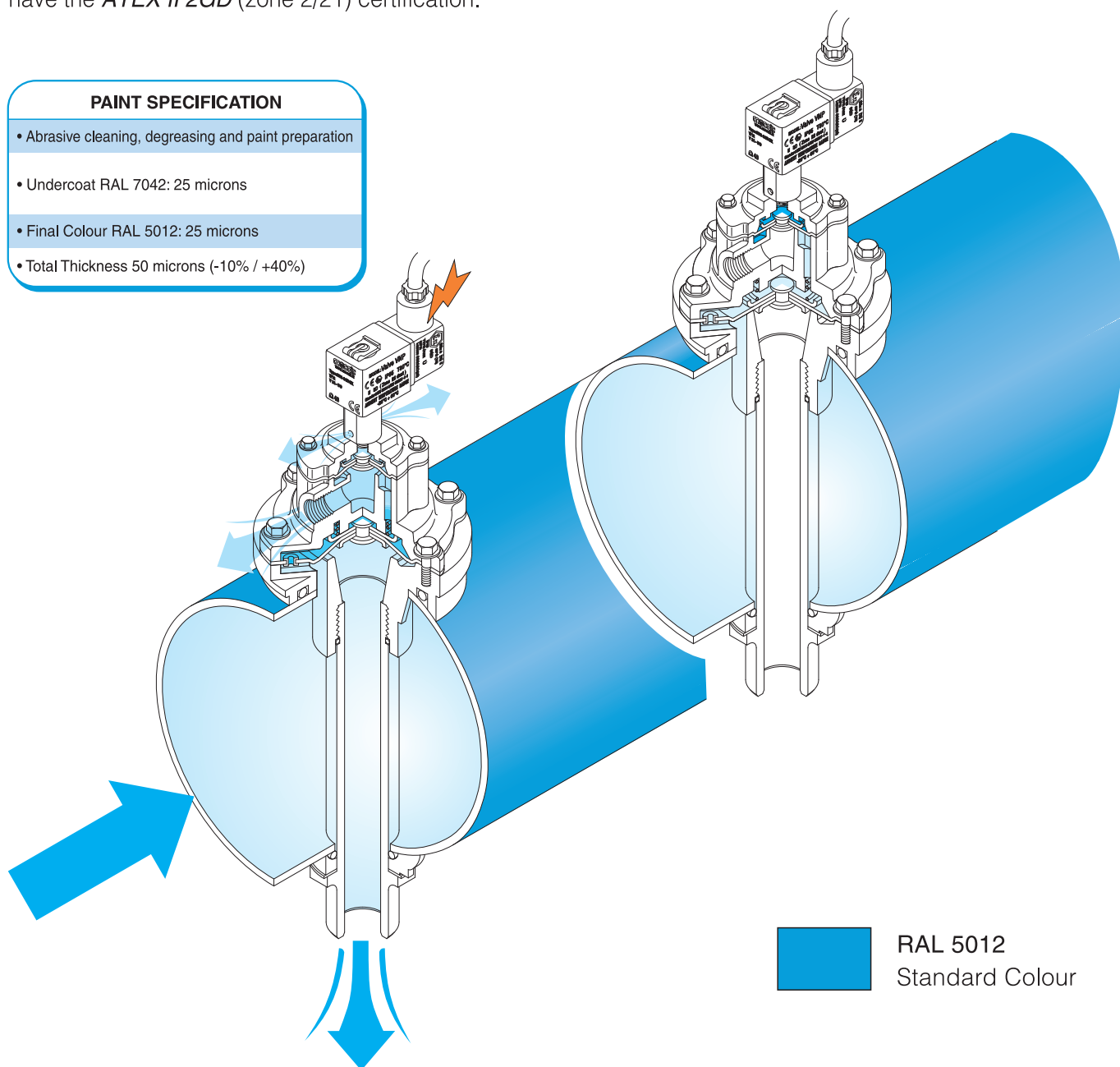
DESCRIPTION

Full Immersion

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 the "CE" Directives, **97/23/CE (PED)**, **87/404/CEE** and **90/488/CEE**. The relevant directive used for the calculations relating to manufacture of the header tanks are **UNI EN 286/1**. This covers all production up to a maximum diameter of 10", while header tanks manufactured with an external diameter of 12" are based upon **VSR** calculations. Upon request it is possible to have the tanks manufactured and in conformity to the European Directive **EC/94/9 ATEX**. For diaphragm valves type **VNP**, it is possible to have **ATEX II 3D** (zone 22), while for **VEM** valves, it is possible to have the **ATEX II 2GD** (zone 2/21) certification.

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%)



RAL 5012
Standard Colour

CODES AND TECHNICAL CHARACTERISTICS

Full Immersion

S 6 C 08 N04 P180 / F*

S: TANK

TANK DIAMETER:

5" - 6" - 8" - 10" - 12"

C: "FULL IMMERSION"

TYPE OF VALVE (specify VNP** or VEM):

- 06 = 506 (3/4"), for 5" tank
- 08 = 508 (1"), for 6" tank
- 12 = 512 (1 1/2" single diaphragm), for 8" tank
- 14 = 514 (1 1/2" double diaphragm), for 8" tank
- 16 = 516 (2"), for 10" tank
- 20 = 520 (2 1/2"), for 12" tank
- 24 = 524 (3"), for 12" tank

N: NUMBER OF VALVES

P: DISTANCE BETWEEN VALVES (mm)

***: ADD "F"** at the end of the code for flat end caps (only upon request).

**** Specify Coil Voltage and Frequency of VNP diaphragm valve**

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).

CONSTRUCTIVE FEATURES - VALVE

Top Cover	Die-cast aluminium (Anodised)
Body	Die-cast aluminium (Anodised)
Pilot Base	Brass (Chromed)
Pilot	Stainless steel
Diaphragm	NBR
Bolts	Stainless steel
Diaphragm Backing disk	Stainless steel
Diaphragm spring	Stainless 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	12V DC (-5%, +20%) 12W 24V DC (-5%, +20%) 12W 48 V DC (-10%, +20%) 9W 110 V DC (-10%, +20%) 12W 24 V 50/60 Hz (-10%, +20%) 16/12 VA 48 V 50/60 Hz (-10%, +20%) 16/12 VA 110/127 V 50/60 Hz (-10%, +20%) 19/14 VA 220/240 V 50/60 Hz (-10%, +20%) 19/14 VA
Ambient temperature	-20°C / +60°C

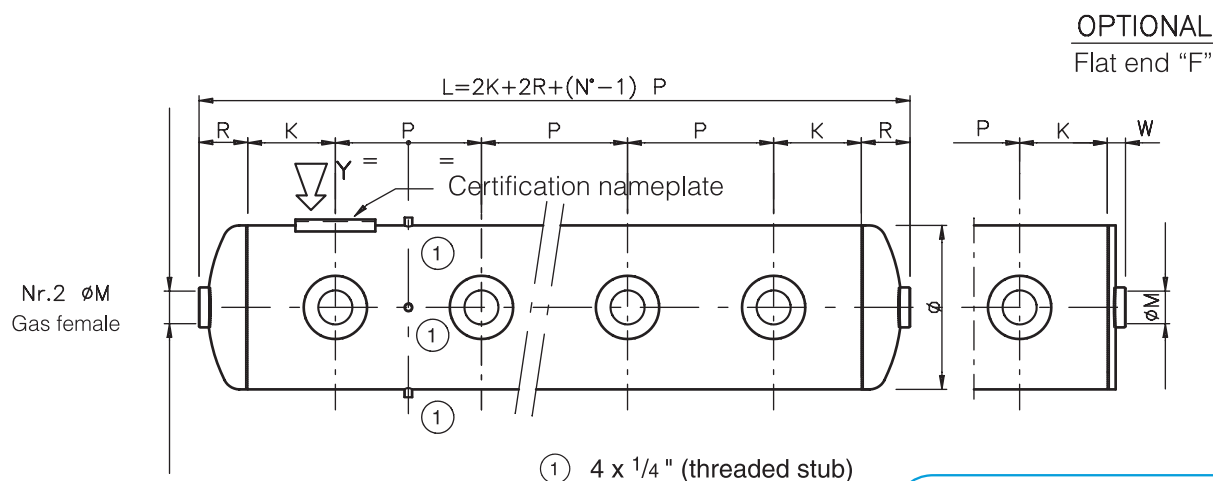
GENERAL CHARACTERISTICS

Fluids	Filtered air and oil free
Diaphragm	Standard: NBR: -20°C/+120°C Optional : Viton:-30°C/+200°C Nitrile: -40°C/+120°C
Pressure range	0,5 to 7,5 bar

TYPE	Port Size	N° 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
VNP512	1 1/2"	1	0,5	7,5	YES	56,2	65,3
VNP514	1 1/2"	2	0,5	7,5	YES	61,3	71,3
VNP516	2"	2	0,5	7,5	YES	110	128
VNP520	2 1/2"	2	0,5	7,5	YES	125	145
VNP524	3"	2	0,5	7,5	YES	140	162
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
VEM512	1 1/2"	1	0,5	7,5	NO	56,2	65,3
VEM514	1 1/2"	2	0,5	7,5	NO	61,3	71,3
VEM516	2"	2	0,5	7,5	NO	110	128
VEM520	2 1/2"	2	0,5	7,5	NO	125	145
VEM524	3"	2	0,5	7,5	NO	140	162

TANK DIMENSIONS TABLE

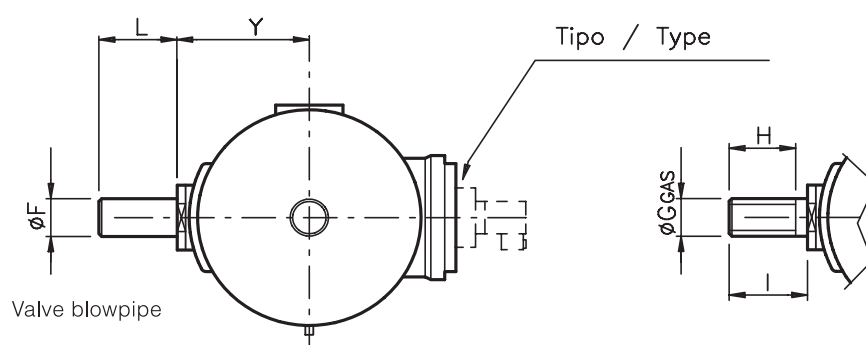
Full Immersion



TO BE COMPLETED
BY CUSTOMER

Ø Tank	Ø Valve	P min.	K min.	R	W	Ø M	P distance required	N Number of valves	K optional
DN 5"	3/4"	95	75	50	15	1"			
DN 6"	1"	120	90	50	15	1"			
DN 8"	1 1/2"	160	115	90	18	1 1/2"			
DN 10"	2"	180	115	90	18	1 1/2"			
DN 12" *	2 1/2"	200	130		25	2"			
DN 12" *	3"	200	130		25	2"			

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

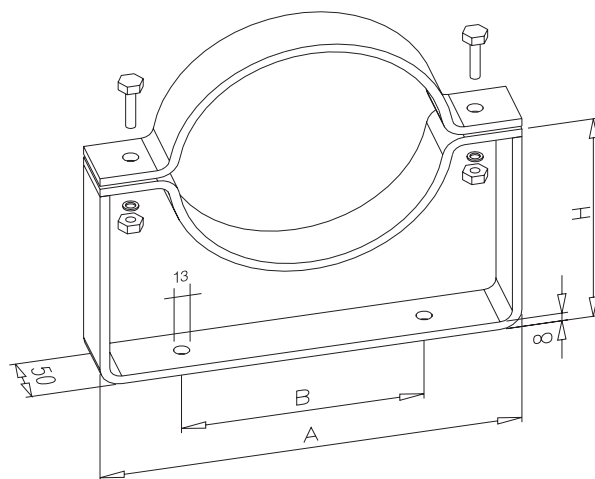


Ø Tank	Ø F	Y	Short unthreaded	L	Long unthreaded	L	Long threaded	Ø G gas	H	I
DN 5"	26,7	93	TS506	60	TL506	80	TF506	3/4"	70	80
DN 6"	33,4	106	TS508	60	TL508	100	TF508	1"	90	100
DN 8"	48,3	131	TS514	60	TL514	120	TF514	1 1/2"	110	120
DN 10"	60,3	158	TS516	60	TL516	140	TF516	2"	130	140
DN 12"	76,1	187	TS520	80	TL520	140	TF520	2 1/2"	130	140
DN 12"	88,9	187	TS524	80	TL524	140	TF524	3"	130	140

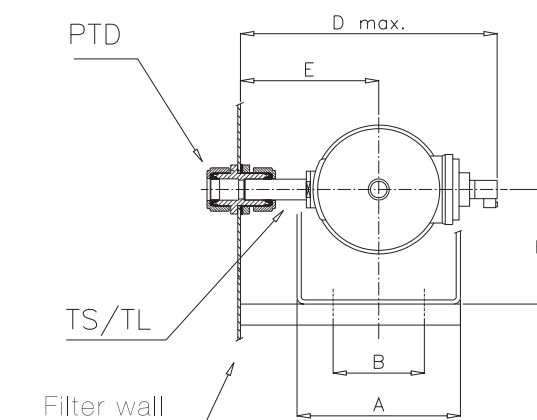
BRACKET AND BLOW TUBE CONFIGURATIONS

Full Immersion

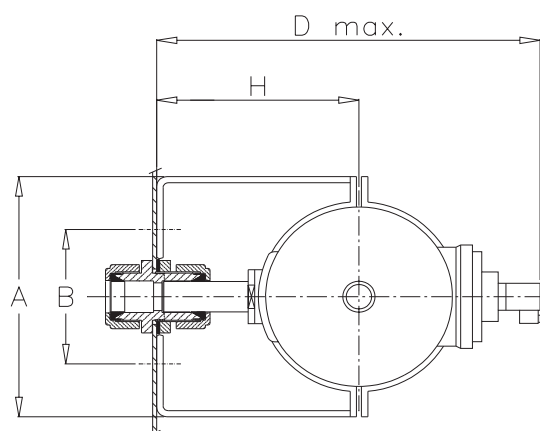
DN tank	Type Bracket	A	B	H
5" (141,3)	TH05	264	150	180
	TM05	264	150	160
	TB05	264	150	95
6" (168,3)	TH06	292	150	200
	TM06	292	150	170
	TB06	292	150	109
8" (219,1)	TH08	348	200	270
	TM08	348	200	210
	TB08	348	200	134
10" (273)	TH10	424	250	290
	TB10	424	250	161
12" (323,9)	TH12	490	300	340
	TM12	490	300	288
	TB12	490	300	234



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
8" (219,1)	TH08	TS514	210	460	TL514	270	520
	TM08	TS514	210	460	TL514	270	520
	TB08	TS514	210	460	TL514	270	520
10" (273)	TH10				TL516	280	550
	TB10				TL516	280	550

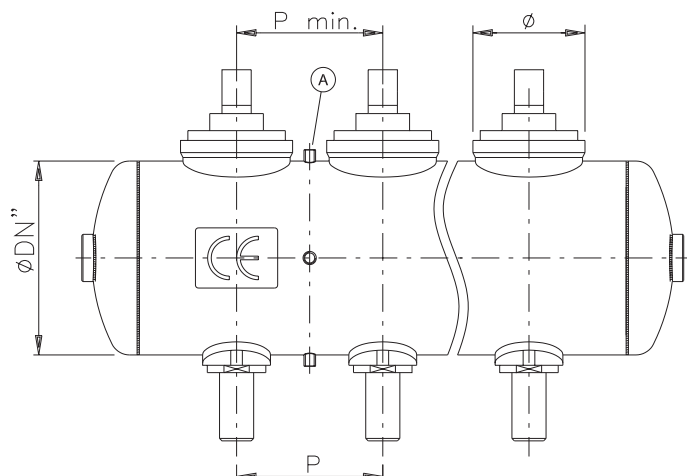


DN tank	Type of Bracket	D Max	Valve Blowpipe	Ø
5" (141,3)	TH05	325/360	TL506/558	3/4"
	TM05	305/340	TS506/558	3/4"
6" (168,3)	TM06	360/420	TS508/564	1"
8" (219,1)	TH08	520	TL514	1 1/2"
	TM08	460	TS514	1 1/2"
10" (273)	TH10	560	TL516	2"



TANK ASSEMBLY TABLE

Full Immersion

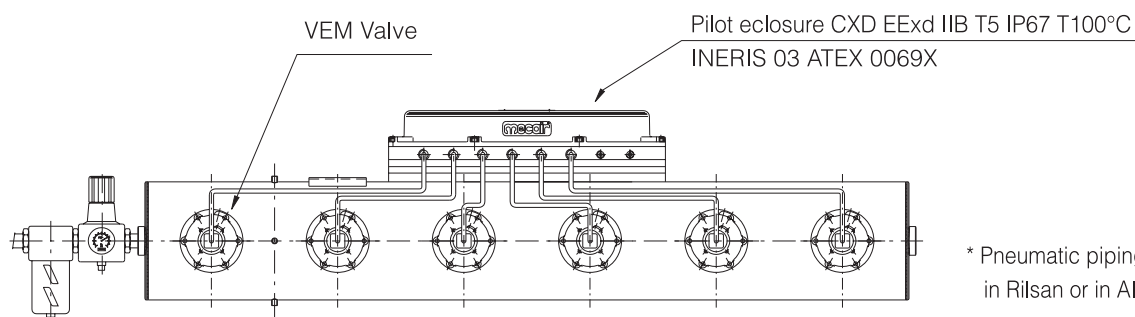
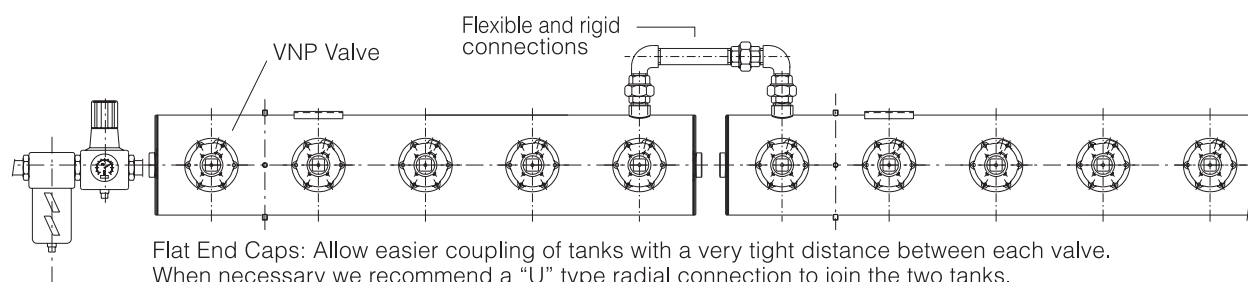


Ø Tank	P min.	Ø Valve Body	P min. for installation of standard brackets	P min. pipe stub A
DN 5" (141,3)	95	80	140	115
DN 6" (168,3)	120	95	150	140
DN 8" (219,1)	160	140	200	180
DN 10" (273)	180	170	230	200
DN 12" (323,9)	200	195	250	235

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.

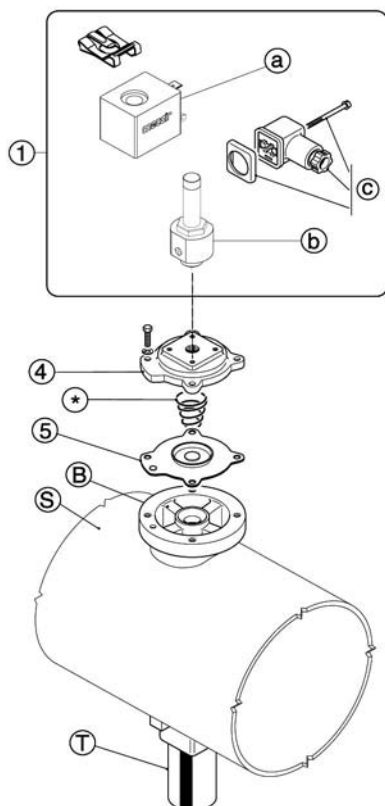
- AIR INLET PIPE TO HEADER TANK/PRESSURE VESSEL:** Minimum Ø 1" for tanks with a 1" valve or 1 1/2" valves. We always recommend to use air inlet pipe to tank to be the same size as the diameter of valve being used, or the next available size down. This ensures that the air supply to the tank is sufficient 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.
- ORIENTATION:** Can work in all orientations.
- 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 100ms - 250ms 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.



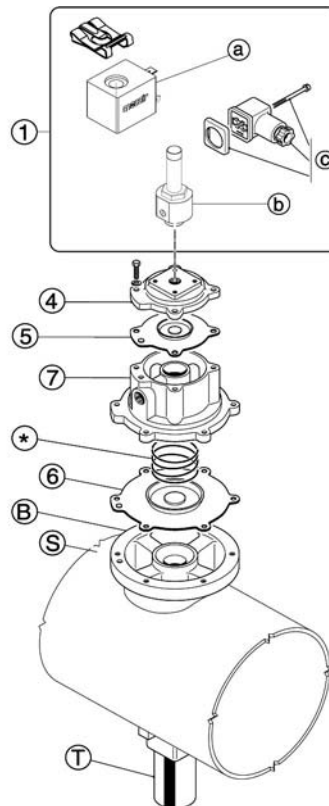
SPARE PARTS

Full Immersion

VEM / VNP 506 - 512



VEM / VNP 514 - 524



* 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

Standard	POS	DESCRIPTION	CODE
1	a)	Solenoid (*)	a) SB3 -/.. (*)
	b)	Pilot group complete with base and ferrule	b) CP1/4
	c)	Din Connector PG9 EN175301-803 IP65	c) PLG9

(*) Specify Voltage and Frequency

OPTIONAL Version

Optional	POS	DESCRIPTION	CODE
1	a)	Solenoid	a) SB3 - 24/DCX
	b)	Pilot group complete with base and ferrule	b) CP1/4
	c)	Din Connector PG9 EN175301-803 IP65	c) PLG9 - ATEX

In Conformity to 94/9/CE ATEX Directive (code - PV-24/DCX)

POS	DESCRIPTION	CODE						
		VEM/VNP506	VEM/VNP508	VEM/VNP512	VEM/VNP514	VEM/VNP516	VEM/VNP520	VEM/VNP524
1	Pilot group complete with solenoid (*) and din connector	PV -/.. (*)	PV -/.. (*)	PV -/.. (*)	PV -/.. (*)	PV -/.. (*)	PV -/.. (*)	PV -/.. (*)
1+4	Pilot group complete with solenoid (*) and din connector, top cover and screws	PVM06 -/.. (*)	PVM08 -/.. (*)	PVM12 -/.. (*)	PVM06 -/.. (*)	PVM06 -/.. (*)	PVM06 -/.. (*)	PVM06 -/.. (*)
4	Top Cover	M310082	M310086	M310092	M310082	M310082	M310082	M310082
5	Diaphragm	DB 16	DB 18	DB 112	DB 16	DB 16	DB 16	DB 16
6	Diaphragm (secondary)	-	-	-	DB 114	DB 116	DB 120	DB 120
7	Intermediate cover (Double diaphragm)	-	-	-	M310098	M310100	M310101	M310101

(*) Specify Voltage and Frequency

INSTALLATION AND MAINTENANCE

Full Immersion

1) INSTALLATION INSTRUCTIONS

ASSEMBLY / DISASSEMBLY

Valve Body(B) + Tank(S) + Valve outlet pipe (T) are to be considered a single and complete module. (No spare parts available for this configuration)
The disassembly or removal of any of the integral parts of this tank section should not be performed, as all tanks and valve assemblies are tested 100% and respect strict tightening tolerances. The only components to be removed are the spare parts listed in the previous spare parts table.

FLUID COMPRESSED AIR

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.

AIR INLET PIPE TO HEADER TANK/PRESSURE VESSEL

- minimum Ø 3/4" for tanks with a 1" valve
- minimum Ø 1" for tanks with a 1 1/2" valve
- minimum Ø 1/2" for tanks with a 2" valve
- minimum Ø 2" for tanks with a 2 1/2" and 3" valve

Note: We always recommend to use 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.

COMPRESSOR

With the appropriate compressor size being utilised, this ensures the tank can be refilled from 0-2 bar in a few seconds.

PROTECTION FROM RAIN

Always ensure a small roof/lid is installed on top of the valves and/or electronic controllers as this protects the valves and controllers from exposure to harsh environmental conditions.

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 100ms – 250ms depending on size of the valves being used.

2) - START UP

Before pressurising the tank/pressure vessel, it is important to verify that the air supply has been connected properly to the tank, that the drain valve has been fitted and that all sockets are plugged. If during the start phase, there is insufficient air in the airline, and you are unable to adequately fill the tank/pressure vessel, (the valves may remain slightly open), it is necessary to close the air inlet valve to the tank, wait for the pressure to reach 6-7 bar and then re-open the valve quickly. This will ensure that the tank fills quickly also providing significant pressure which ensures the valves remain properly closed.

3) - SPARE PART RECOMMENDATION

- 3.1 - FOR START UP - Minimum quantity of 5% of the supply (min. 1 piece).
 - Pilot Group (pos.1), complete with pilot body, solenoid coil, din connector.
- 3.2 - FOR THE FIRST TWO YEARS OF OPERATION - Minimum quantity of 10% of the supply (min. 2 pieces).
 - Pilot Group (pos.1), complete with pilot body, solenoid coil, din connector
 - Diaphragms (pos.5 and/or 6).

4) - MAINTENANCE AND REPAIRS

- 4.1 - Common processes for all controls, maintenance and repairs to be conducted
 - Before conducting any maintenance activity on the system ensure that the components are fully isolated from pressure and power supplies.
 - Replacement or controls relating to diaphragms (pos.5), in reinstalling/re-positioning the diaphragm ensure that the diaphragm bleed is in the correct position lined up with the valve body position. The bleed should fit into the valve body eyelet.
 - Secure the bolts on the top cover to the valve body without over tightening. We recommend the use of a torque wrench to properly secure the bolts: **1,6 Kgm** for M6 (3/4" - 1"), **3,8 Kgm** for M8 (1 1/2") and **7 Kgm** for M10 (2" - 2 1/2" - 3").
 - Substitution of or controls relating to the solenoid pilot: Prior to removing the solenoid pilot, ensure power supply is disconnected. Remove carefully din socket and then remove solenoid coil.
- 4.2 - PERIODICAL MAINTENANCE - Annually check: Diaphragm and pilot inspection should be conducted annually:
 - In the case of VNP/VXP models, check the integrity of the electrical connections and the din socket connection to be properly fixed to the solenoid coil.
 - In the case of VEM models, check the integrity of all pneumatic connections including pneumatic piping and all pneumatic connections
- 4.3 - MALFUNCTION / TROUBLE SHOOTING: proceed with controls and checks below.

DEFECT / FAULT	CONTROL / CHECKS
The valve DOES NOT OPEN OR VIBRATES	<ul style="list-style-type: none"> - Verify integrity of the solenoid or that the wires are not damaged - Verify that the electrical connections are properly connected to the valve and that the wiring has been performed correctly - Verify that the outlets from the electronic controller are free from disturbances and within the specified tolerances of +/-10% of the nominal value
The valve REMAINS OPEN OR LOSES AIR CONTINUOUSLY	<ul style="list-style-type: none"> - Check that the bolts of the top cover are properly secured, in case of diaphragm substitution - Remove the top cover and verify that there are no particulate underneath the diaphragm

* In case of VEM type valve: remove solenoid from enclosure and check orifice and seals.

CODES AND TECHNICAL CHARACTERISTICS

(Note: For the installation of these type of valves, the tank must have a **minimum length of 4 metres**).

Full Immersion

S 6 C 08 N04 P180 / F*

S: TANK

TANK DIAMETER:
5" - 6" - 8"

C: "FULL IMMERSION"

TYPE OF VALVE (specify VNP** or VEM):

- 08 = 558 (1"), for 5" tank
- 12 = 562 (1 1/2"), for 6" tank
- 14 = 564 (1 1/2"), for 6" tank
- 16 = 586 (2"), for 8" tank

N: NUMBER OF VALVES

P: DISTANCE BETWEEN VALVES (mm)

***: ADD "F"** at the end of the code for flat end caps (only upon request).

**** Specify Coil Voltage and Frequency of VNP diaphragm valve**

CONSTRUCTIVE FEATURES - VALVE

Top Cover	Die-cast aluminium (Anodised)
Body	Die-cast aluminium (Anodised)
Pilot Base	Brass (Chromed)
Pilot	Stainless steel
Bolts	Stainless steel
Viteria	Acciaio inox
Diaphragm Backing disk	Stainless steel
Diaphragm spring	Stainless steel

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).

GENERAL CHARACTERISTICS

Fluids	Filtered air and oil free
Diaphragm	Standard
	NBR: -20°C / +120°C
	Optional
	Viton: -30°C / +200°C Nitrile: -40°C / +120°C
Pressure range	From 0,5 to 7,5 bar

ELECTRICAL CHARACTERISTICS - SOLENOID

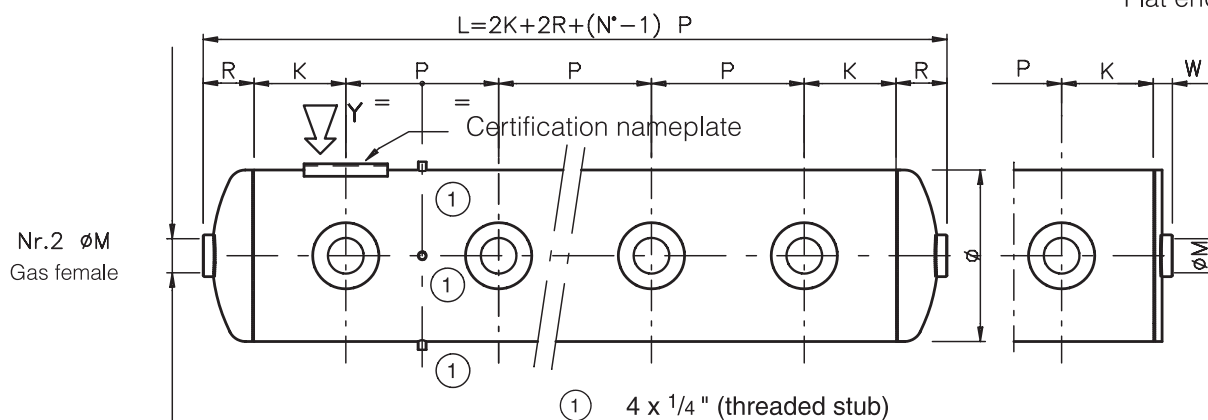
Coil insulation	Class H
Din Socket Connector	PG9 Connection
Din Socket specification	EN175301 - 803 / A/ISO 4400
Connettore Optional	94/9/CE ATEX II 3GD T6
Isolation class Din socket	VDE 0110 - 1/89
Electrical protection	IP65 EN60529
Voltage Range	12V DC (-5%, +20%) 12W
	24V DC (-5%, +20%) 12W
	48 V DC (-10%, +20%) 9W
	110 V DC (-10%, +20%) 12W
	24V 50/60Hz (-10%, +20%) 16/12 VA
	48 V 50/60 Hz (-10%, +20%) 16/12 VA
	110/127 V 50/60 Hz (-10%, +20%) 19/14 VA
Ambient temperature	220/240 V 50/60 Hz (-10%, +20%) 19/14 VA
	-20°C / +60°C

TYPE	Port Size	N° Diaph.	Pressure Range (bar)		Coil	Kv	Cv
			min.	max			
VNP558	1"	1	0,5	7,5	YES	26,3	30,6
VNP562	1 1/2"	1	0,5	7,5	YES	56,2	65,3
VNP564	1 1/2"	2	0,5	7,5	YES	61,3	71,3
VNP586	2"	2	0,5	7,5	YES	110	128
VEM558	1"	1	0,5	7,5	NO	26,3	30,6
VEM562	1 1/2"	1	0,5	7,5	NO	56,2	65,3
VEM564	1 1/2"	2	0,5	7,5	NO	61,3	71,3
VEM586	2"	2	0,5	7,5	NO	110	128

TANK DIMENSIONS TABLE SPECIAL EXECUTION

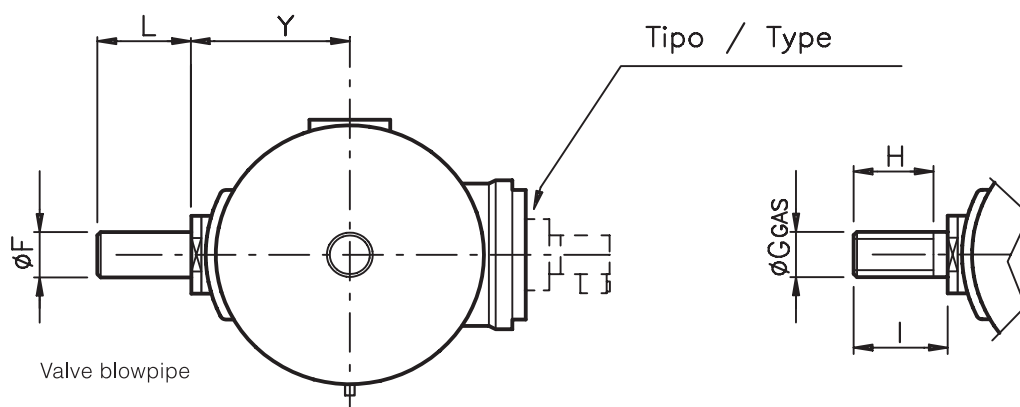
Full Immersion

OPTIONAL
Flat end "F"



Ø Tank	Ø Valve	P min.	K min.	R	W	Ø M	TO BE COMPLETED BY CUSTOMER		
							P distance required	N Number of valves	K optional
DN 5" (141,3)	1"	120	90	50	15	1"			
DN 6" (168,3)	1 1/2"	160	90	50	15	1"			
DN 8" (219,1)	2"	180	115	90	18	1 1/2"			

L min. tank = 4 mt.

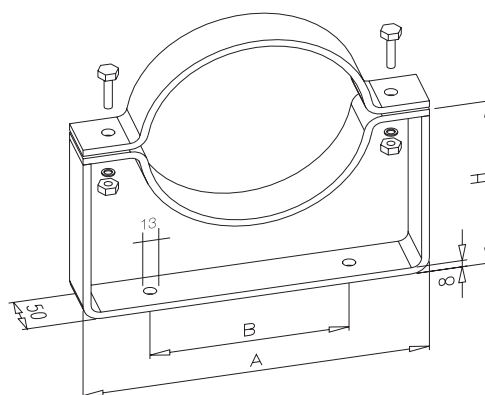


Ø Tank	Ø F	Y	Short unthreaded	L	Long unthreaded	L	Long threaded	Ø G gas	H	I
DN 5"	33,4	93	TS558	60	TL558	100	TF558	1"	90	100
DN 6"	48,3	106	TS564	60	TL564	100	TF564	1 1/2"	90	100
DN 8"	60,3	131	TS586	60	TL586	120	TF586	2"	130	140

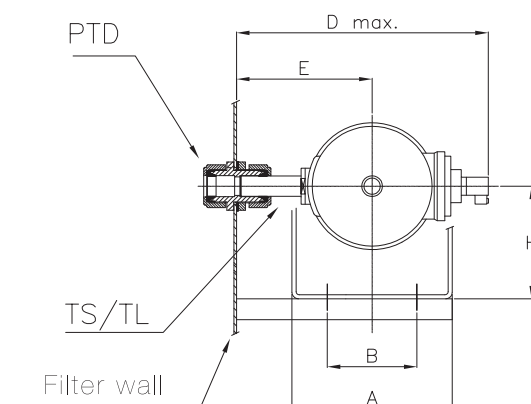
BRACKET AND BLOW TUBE CONFIGURATIONS SPECIAL EXECUTIONS

Full Immersion

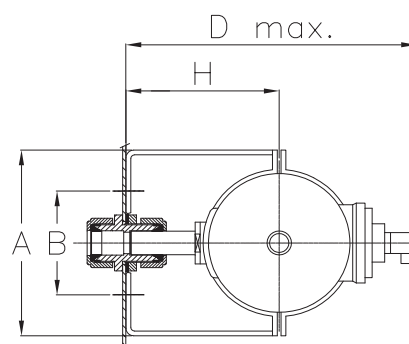
DN tank	Type Bracket	A	B	H
5" (141,3)	TH05	264	150	180
	TM05	264	150	160
	TB05	264	150	95
6" (168,3)	TH06	292	150	200
	TM06	292	150	170
	TB06	292	150	109
8" (219,1)	TH08	348	200	270
	TM08	348	200	210
	TB08	348	200	134



DN tank	Type of Bracket	Valve Blowpipe	E	D Max	Valve Blowpipe	E	D Max
5" (141,3)	TH05	TS558	160	325	TL558	180	365
	TM05	TS558	160	325	TL558	180	365
	TB05	TS558	160	325	TL558	180	365
6" (168,3)	TH06	TS564	175	425	TL564	212	465
	TM06	TS564	175	425	TL564	212	465
	TB06	TS564	175	425	TL564	212	465
8" (219,1)	TH08	TS586	210	460	TL586	270	520
	TM08	TS586	210	460	TL586	270	520
	TB08	TS586	210	460	TL586	270	520



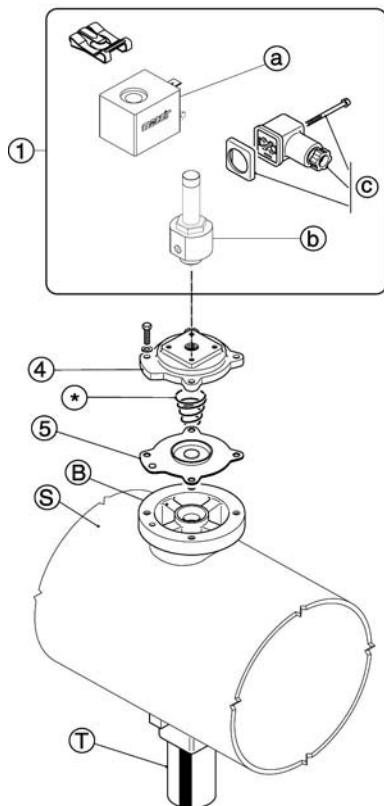
DN tank	Type of Bracket	D Max	Valve Blowpipe	Ø
5" (141,3)	TH05	360	TL558	1"
	TM05	340	TS558	1"
6" (168,3)	TM06	420	TS564	1 1/2"
8" (219,1)	TH08	520	TL586	2"
	TM08	460	TS586	2"



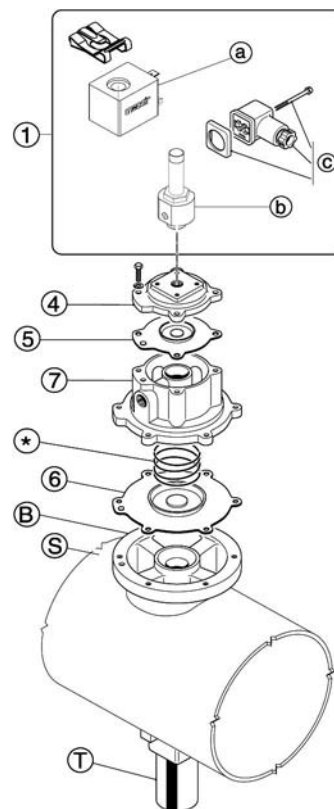
SPARE PARTS FULL IMMERSION SPECIAL EXECUTIONS

Full Immersion

VEM / VNP 558 - 562



VEM / VNP 564 - 586



* 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) SB3 - ../.. (*)
	b) Pilot group complete with base and ferrule	b) CP1/4
	c) Din Connector PG9 EN175301-803 IP65	c) PLG9

(*) Specify Voltage and Frequency

OPTIONAL Version

POS	DESCRIPTION	CODE
1	a) Solenoid	a) SB3 - 24/DCX
	b) Pilot group complete with base and ferrule	b) CP1/4
	c) Din Connector PG9 EN175301-803 IP65	c) PLG9 - ATEX

In Conformity to 94/9/CE ATEX Directive (code - PV-24/DCX)

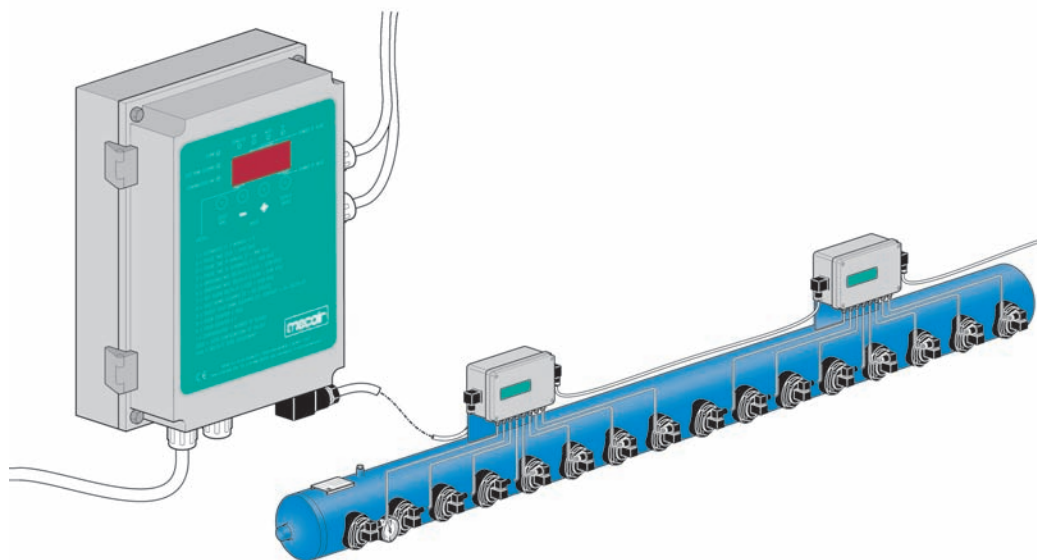
POS	DESCRIPTION	CODE			
		VEM/VNP558	VEM/VNP562	VEM/VNP564	VEM/VNP586
1	Pilot group complete with solenoid (*) and din connector	PV - ../.. (*)	PV - ../.. (*)	PV - ../.. (*)	PV - ../.. (*)
1+4	Pilot group complete with solenoid (*) and din connector, top cover and screws	PVM08 - ../.. (*)	PVM12 - ../.. (*)	PVM06 - ../.. (*)	PVM06 - ../.. (*)
4	Top Cover	M310086	M310092	M310082	M310082
5	Diaphragm	DB 18	DB 112	DB 16	DB 16
6	Diaphragm (secondary)	—	—	DB 114	DB 116
7	Intermediate cover (Double diaphragm)	—	—	M310098	M310100

(*) Specify Voltage and Frequency

BUS MASTER + SLAVE

Full Immersion

Mecair has developed a **MASTER** and **SLAVE SYSTEM** to command the sequence of diaphragm valves used in Pulse Jet Dust Collector Filters. The new "BUS" system consists of a "**MASTER CONTROLLER**" (MSC) and one or more "**SLAVE**" cards (Min. 1 - Max 20 Slave). The connection between each SLAVE card is very simple and requires a standard three wire gland cable (and not a special shielded cable). The standard cable is then connected to a standard three-pin DIN socket (without ground), which is then plugged directly into each slave card enclosure. The greater the number of diaphragm valves and the more convenient and cost effective becomes the system. By using our system we are able to: obtain a system which is pre-wired in zones; time saving in wiring; eliminating large quantity of wires being dragged from one end of the filter to the other; auto testing of system to ensure correct functioning of diaphragm valves; no more laborious installation of wiring - Cost saving.



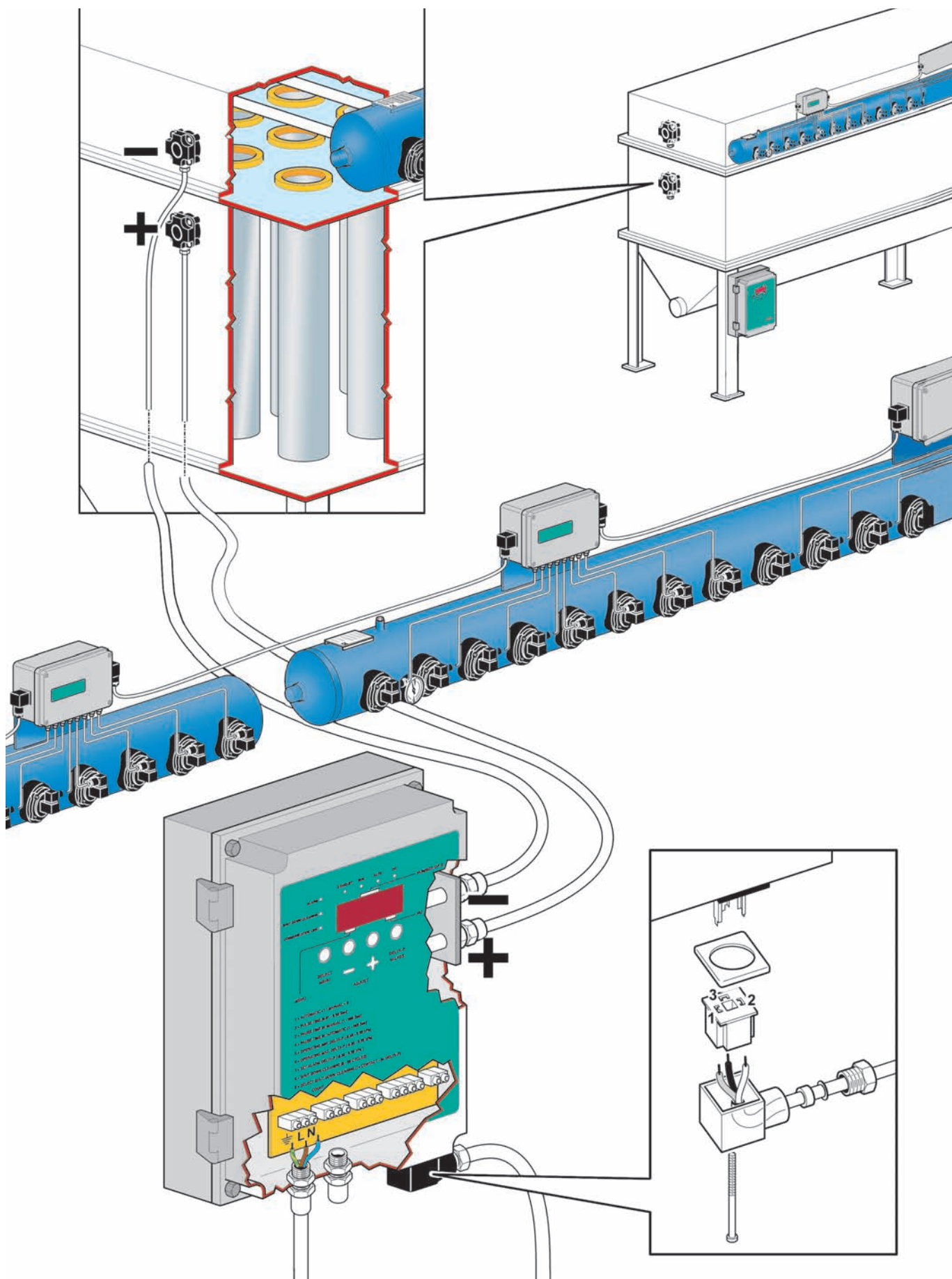
Master and Slave Controller is the intelligent part of system. It allows us to read the (Δp) and control the sequence of the diaphragm valves in the dust collector filter. The Master Controller is mounted in an enclosure (IP65). The electronic controller uses microprocessor technology and all technical characteristics have been approved by an authorised laboratory. Clear menu and instructions allow ease of operation. The Master Controller allows the correct functioning of the entire system. Identifies eventual anomalies relative to the diaphragm valves and indicates this on the liquid crystal display. Localises and identifies problems with wiring or short circuit relative to the diaphragm valve. Ability to remotely visualize the (Δp) in the dust collector filter and as an option, ability to monitor the pressure in the header tank remotely.



The Slave, like the Master Controller, also utilizes microprocessor technology.

The Slave is mounted in an enclosure (IP 65). The Slave allows ease of wiring in with up to a maximum of 10 valves per Slave. The Slave has a push button mounted on the circuit board to automatically check the correct functioning of each diaphragm valve connected.

** It is possible to have slave mounted and precabled on tank, electrical or pneumatic connections.*





THE TOTAL SOLUTION PROVIDER

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