

# TECHNICAL SPECIFICATION

## *Header Tanks with Threaded and Smooth Stub Pipes – Types 'A' and 'B'*



**Product Description**



**Dimensional Details**



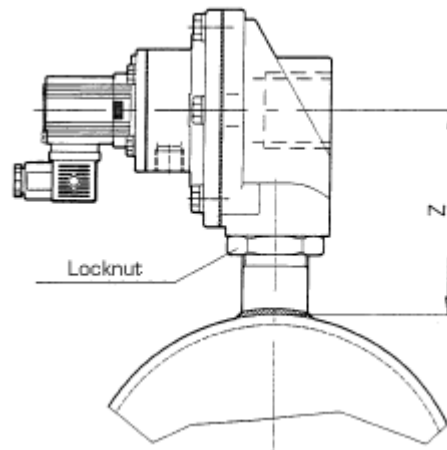
**How to Order**



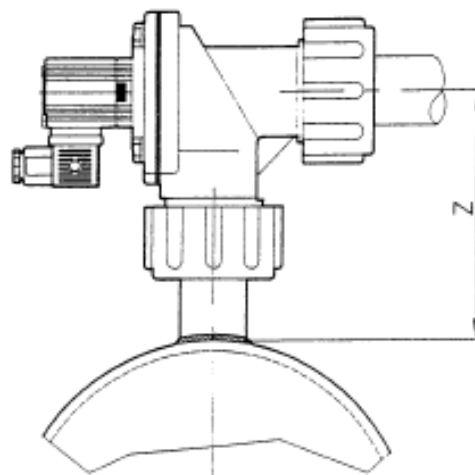
## PRODUCT DESCRIPTION

Tank type "A" with threaded stub pipe connections are suitable for mounting the 200 Series valves. Available outlet diameters: 3/4", 1", 1 1/2", 2", 2 1/2" and 3"

(Note: always use the locknut, position the valve, then tighten the locknut).

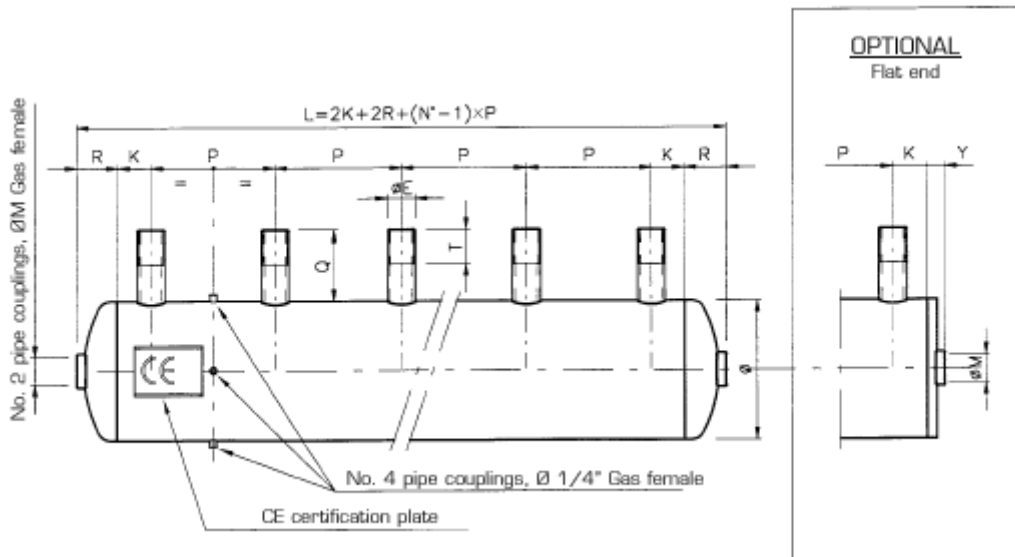


Tank type "B" with smooth stub pipe connections are suitable for mounting the 300 Series valves. Available outlet diameters: 3/4", 1", 1 1/2".



## DIMENSIONAL DETAILS

### Type 'A'



$$L = 2K + 2R + (N - 1) \times P$$

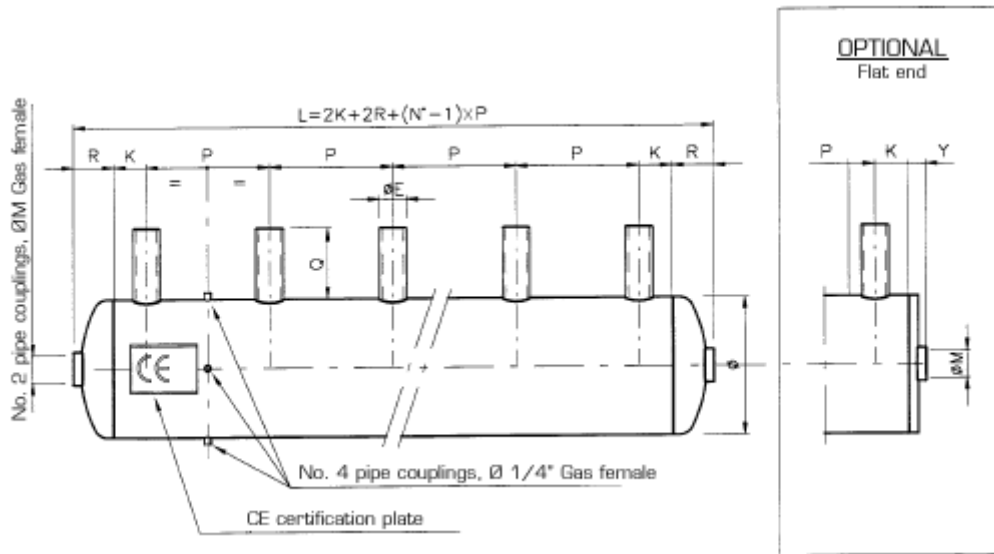
N = no. of connections

P = distance between each connection

No. 2 pipe couplings, ØM Gas female

Ø nom.	Ø ext. (mm)	No. Valv.	E	ØM	P min.	P	K min.	K	R	Y	Ø Tank	ØE Gas	Q	T	Z (±1)	
5"	141,3	(*)	(*)	1"	150	(*)	40	(*)	50	15	5"/6"	3/4"	85	40	112	
6"	168,3	(*)	(*)	1"	150	(*)	40	(*)	50	15	5"/6"	1"	85	40	120	
8"	219,1	(*)	(*)	1 1/2"	150	(*)	40	(*)	70	18	5"/6"/8"	1 1/2"	85	40	136	
10"	273,0	(*)	(*)	1 1/2"	280	(*)	65	(*)	90	18	8"	2"	85	40	150	
* Dimensions to be set by designer, according to min. standard values.											8"/10"	2 1/2"	85	40	175	
Tanks are painted in light blue RAL 5012 (others colours optional).											10"	3"	100	50	205	
Threaded stub pipes are complete with locknut.																

## Type 'B'



$$L = 2K + 2R + (N - 1) \times P$$

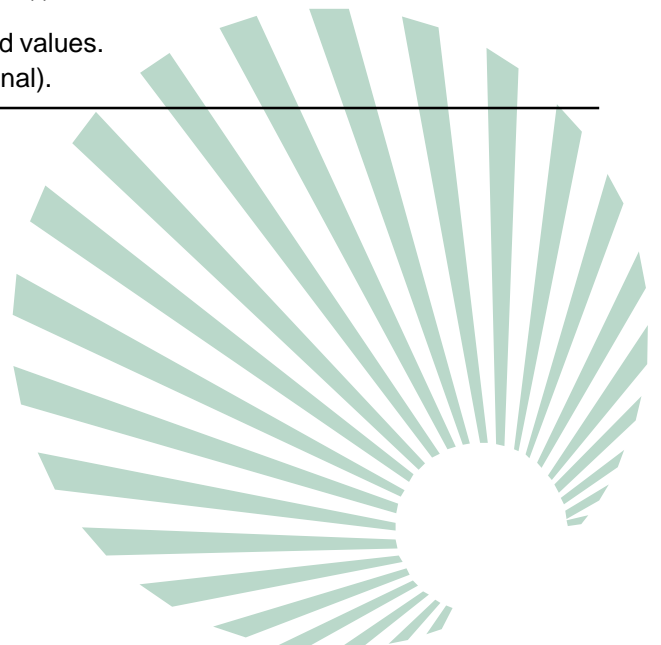
N = no. of connections

P = distance between each connection

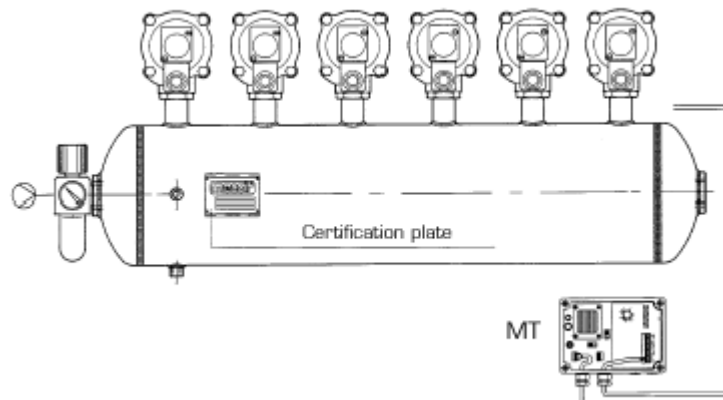
Ø nom.	Ø ext. (mm)	No. Valv.	E	ØM	P min.	P	K min.	K	R	Y	Ø Tank	ØE Gas	Q	Z
5"	141,3	(*)	(*)	1"	150	(*)	40	(*)	50	15	5" / 6"	3/4"	85	125
6"	168,3	(*)	(*)	1"	150	(*)	40	(*)	50	15	5" / 6"	1"	85	133
8"	219,1	(*)	(*)	1 1/2"	150	(*)	40	(*)	70	18	5" / 6" / 8" / 10"	1 1/2"	85	138
10"	273,0	(*)	(*)	1 1/2"	280	(*)	65	(*)	90	18				

\* Dimensions to be set by designer, according to min. standard values.

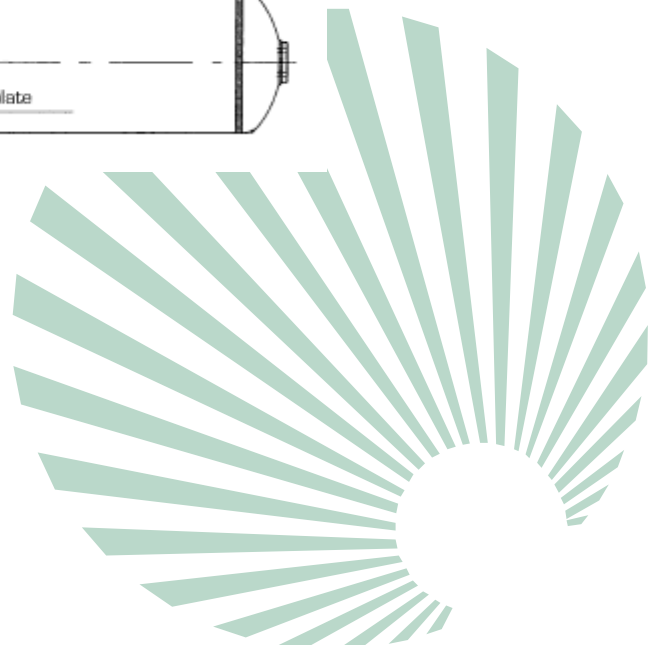
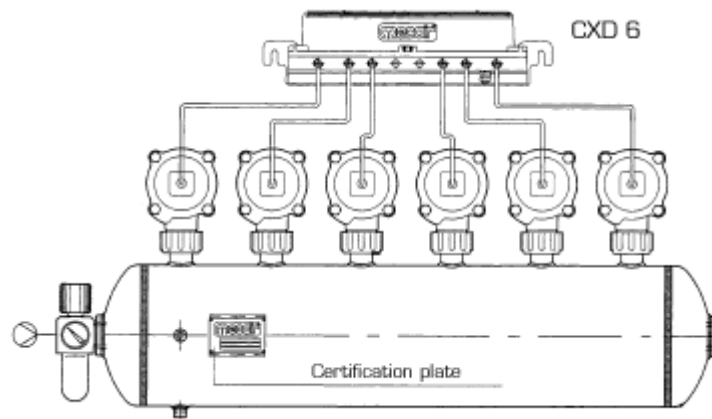
Tanks are painted in light blue RAL 5012 (other colours optional).



Tank equipped with 200 Series VEP diaphragm valves (integrated pilot) and MT model sequencer.

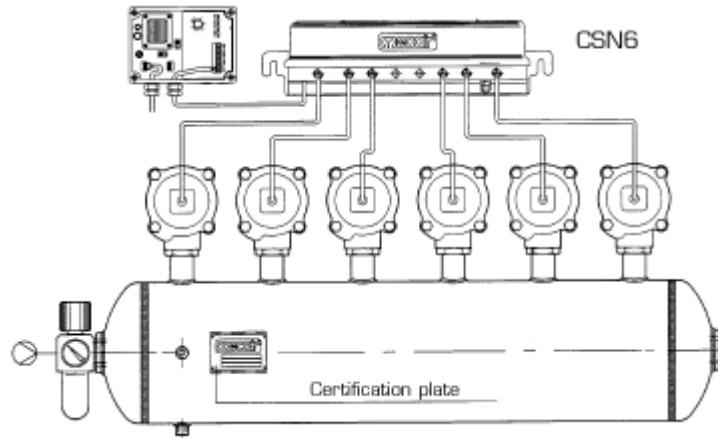


Tank equipped with 300 Series VEM diaphragm valves controlled by remote solenoid pilots mounted on explosionproof casing (max. distance 2 metres). The CXD casings have EEx d IIB T5 and IP67 protection rating. Certified Cenelec-CESI N° Ex-93.C.118.

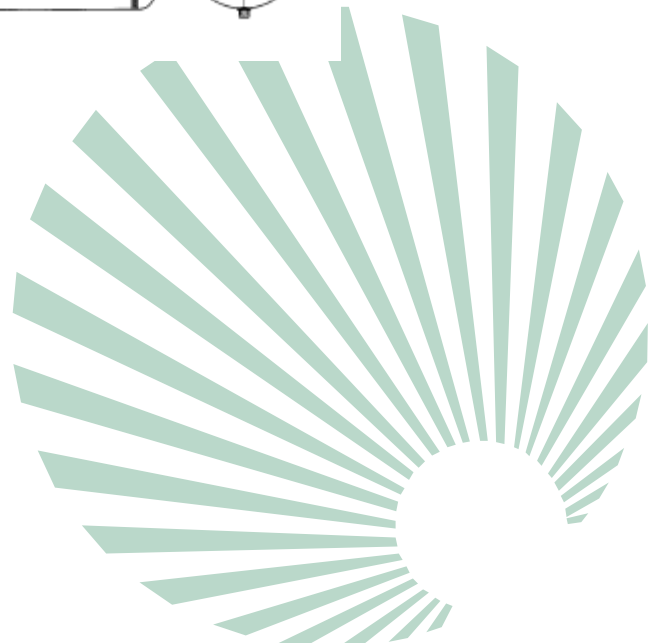
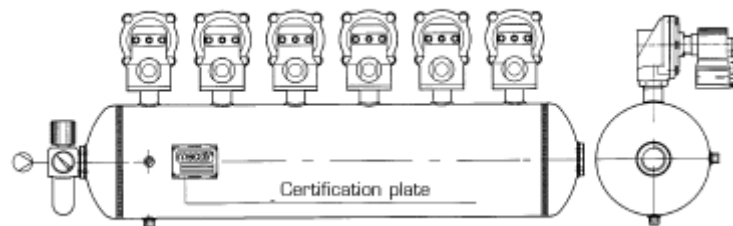


Tank equipped with 200 Series VEM diaphragm valves, controlled by remote solenoid pilots, mounted on waterproof casing model CSN with IP67 protection rating. Certified Cenelec-CESI N° GR-93/032409.

The electronic control is mounted on a separate box. Tank equipped with 200 Series VXM stainless steel AISI 316 valves, complete with single solenoid pilot PEX24.



The pilot is made of AISI 316 stainless steel with explosionproof protection rating EEx d IIC T5. Certified Cenelec-CESI N° Ex-93.C.119.



## HOW TO ORDER

Mecair manufactures a wide range of tanks for the pulse-jet dust collector filters, complying with the following European Directives:

CEE 87/404 and 90/488. Mecair tanks are certified for a maximum working pressure of 7,5 bar. They are allowed to carry CE approval plate and they are supplied with a test certificate.

Mecair tanks are available in the following diameters: 5", 6", 8" and 10". Tank lengths and distance between valves are manufactured according to project requirements and CE regulations. However we recommend tank lengths below 3 metres for ease of handling and installation. Higher required volumes can be obtained by connecting several tanks to each other. Mecair moreover recommends using compressed air, filtered, dried, stabilized and oil free. From now on we will refer to the following two types of tanks:

- TANK TYPE A: with threaded stub pipes male gas (for the 200 Series valves)
- TANK TYPE B: with smooth stub pipes (for the 300 Series valves)

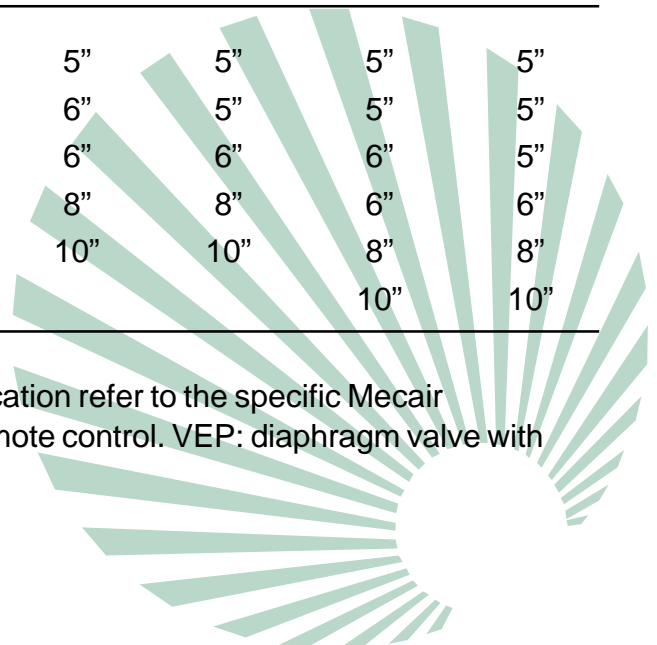
## How to Choose the Diameter of your Tank

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

- choose your Mecair diaphragm valve, according to needs
- define tank length
- using the table below, select the right tank diameter
- write down the tank code

Valve Type VEM/VEP	Tank Length (metres)					
	1	1.5	2	3	4	5
206-306	6"	5"	5"	5"	5"	5"
208-308	6"	6"	6"	5"	5"	5"
212-214-312-314	8"	8"	6"	6"	6"	5"
216	10"	10"	8"	8"	6"	6"
220			10"	10"	8"	8"
224					10"	10"

**Note:** the diaphragm valves mentioned in this publication refer to the specific Mecair products catalogue. (VEM: diaphragm valve with remote control. VEP: diaphragm valve with integrated pilot).



## How to Complete the Tank Code

### S 6 A 08 N04 P180 / F\*

S	–	Tank
6	–	Tank Diameter
		5"
		6"
		8"
		10"
A	–	Type of Valve Connections
		A: with threaded stub pipes male gas
		B: with smooth stub pipes
08	–	Valve Type (specify VEP or VEM)
		06 = 3/4"
		08 = 1"
		12 = 1 1/2" (single diaphragm)
		14 = 1 1/2" (double diaphragm)
		16 = 2"
		20 = 2 1/2"
		24 = 3"
N04	–	N: Number of outlets
P180	–	P: Distance between outlets (mm)
F*	–	Add 'F' at the end of the key for tank with flat end caps (only on request)

