



mecair

PNEUMATIC AIR CANNONS

PENTAIR CLEAN AIR SYSTEMS

MECAIR PNEUMATIC AIR CANNONS

DESCRIPTION

Mecair produces a complete series of air cannons to dislodge all types of dust which stick to the walls of the hoppers and the bottom of the silos. These devices are more efficient than "fluidification" and "vibration" systems, especially with particularly sticky dust. The air cannons consist of two basic elements: the first is the Mecair diaphragm valve with an extremely high flow rate and the second is an air accumulator. The valves are quick-opening and discharge instantaneously the pneumatic energy of the tank on which they are mounted, striking the material to be dislodged with a violent impulse of compressed air. A strong vibration spreads to all parts of the product, causing the dust to fall, without stressing the silo's structure. The air cannons are available in 4 versions:

MODEL	TYPE	WEIGHT
CNN5	Diaphragm valve VNP 206 (3/4") + 5 litre air accumulator	7 kg
CNN15	Diaphragm valve VNP 208 (1") + 15 litre air accumulator	13.5 kg
CNN25	Diaphragm valve VNP 212 (1 1/2") + 25 litre air accumulator	20 kg
CNN50	Diaphragm valve VNP 216 (2") + 50 litre air accumulator	43.5 kg

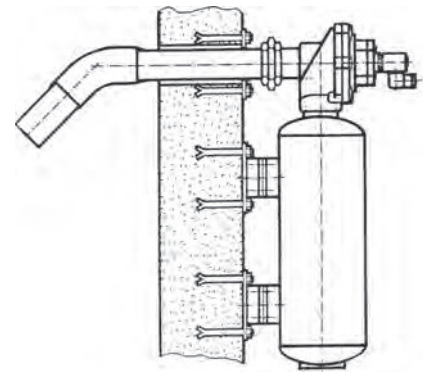
CONSTRUCTION CHARACTERISTICS – VALVE

Top cover	Diecast aluminium (anodised)
Body	Diecast aluminium (anodised)
Bolts and screws	Stainless steel
Air accumulator	Carbon steel

SAFETY RECOMMENDATIONS

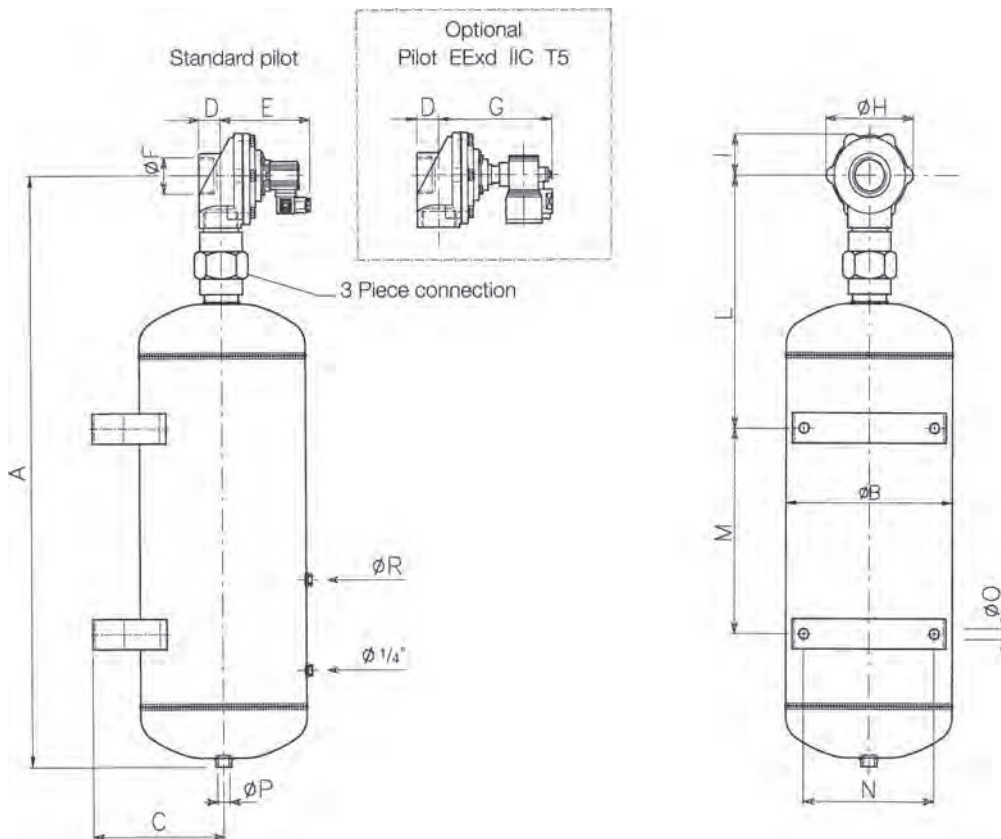
- The anchorage brackets must always be fixed before supplying the tank with compressed air.
- Before dismantling the tank from its structure, shut off the supply of compressed air and ensure air accumulator has been emptied.
- Supply with compressed air filtered, oil free and with a maximum operating pressure of 0.5 bar–7.5 bar.

EXAMPLE OF INSTALLATION



MECAIR PNEUMATIC AIR CANNONS

DIMENSIONS (mm)



MODEL	A	Ø B	C	D	E	Ø F	VALVE	G	Ø H	I	L	M	N	Ø O	Ø P	Ø R
CNN5	515	141.3	100	18	100	¾"	VNP206	140	60	34	230	150	120	13	½"	½"
CNN15	605	219.1	160	23	100	1"	VNP208	140	72	38	220	280	260	13	½"	½"
CNN25	895	219.1	160	31	122	1½"	VNP212	162	135	58	362	320	260	13	½"	½"
CNN50	1180	273	200	35	171	2"	VNP216	211	160	75	445	460	295	13	½"	½"

The AVS logo is located in the top right corner of the page. It consists of the letters "AVS" in a bold, white, sans-serif font, set against a dark grey rectangular background.

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