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AMERICAN FOOD EQUIPMENT COMPANY

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METAL DETECTION

—
INLINE - M-PULSE2

powered by

p-u-l-s-o-t-r-o-n-i-c

ANLAGENTECHNIK

INLINE



SPECIFIC CHARACTERISTICS

- design in stainless steel
- protection class IP69K
- fade-out of product-effect
- different ejection valves available
- separate control unit
- stable base frame
- individual construction

APPLICATION

Devices from the M-Pulse InLine series particularly are used in the food industry for the detection of fluid products and commodities on metallic contamination. Nevertheless they can also be applied in other industrial branches. The detector can be equipped with different ejection valves. Tubes are available in diameters from 40 mm to 150 mm.

The connection to the tubes is either realised with Tri-Clamp binders or with milk thread. Thus the detectors can be installed subsequently with little time and effort.

The electronics is connected via a 3 m connecting cable. For this reason the device can always be operated easily even when the sensor is used in places that are difficult to access.

FUNCTION

The test material passing through the product tube is detected on metallic contamination by the sensor. If metal is detected, this is identified and analysed by the operating electronics. The electronics identifies in real time if there really is metal or if it is just the product effect. Metal is separated via the ejection valve.

TECHNICAL DATA

Type	INLINE 40	INLINE 50	INLINE 65	INLINE 80	INLINE 100	INLINE 125	INLINE 150
Mechanical data							
Material - ejection outlet	stainless steel / POM						
Material - base frame	stainless steel						
Material - product tube	PVDF						
max. delivery pressure	16 bar						
Pipe connection	tri-clamp or milk thread (When ordering please specify!)						
Free pipe diameter	38 mm	50 mm	66 mm	81 mm	100 mm	125 mm	150 mm
Weight ⁴	50 kg	52 kg	55 kg	60 kg	63 kg	68 kg	70 kg
Conditions of use							
Storage temperature	-10 – 60°C						
Operating temperature	-10 – 50°C						
max. temperature of the product	-10 – 60°C						
Protection class	IP69K						
Electrical connection	230 VAC; 50 – 60 Hz; 100 W						
Pneumatic connection	6 – 8 bar, filtered, free of water and oil; self-sealing-coupling – fitting NW 7,2						

Sensitivity ¹	INLINE 40		INLINE 50		INLINE 65		INLINE 80		INLINE 100		INLINE 125		INLINE 150	
Material - test pieces ³	FE	SS	FE	SS	FE	SS	FE	SS	FE	SS	FE	SS	FE	SS
M-Pulse ²	0,4	1,0	0,5	1,2	0,5	1,4	0,8	1,5	1,0	1,8	1,2	2,0	1,4	2,2

- 1) The actual sensitivity depends on various factors. Unfavourable environmental conditions or vibrations can reduce the sensitivity. Conductive test material can also influence the sensitivity. For obliging information please contact our service or sales department. Our service includes product tests in our headquarters.
- 4) Depends on equipment.
- 3) FE → Ferrous / SS → Stainless steel

SPECIAL DESIGNS & ACCESSORIES

Additionally to different ejection valves we offer many other optional components for our InLine detectors. If you have any other requests going beyond the list shown below, please contact our sales department.

Accessories	
Bogen valve for InLine 50	08410502012 (model with tri-clamp-connection)
Bogen valve for InLine 50	08410502013 (model with thread DN50 - 78 x 1/6")
Bogen valve for InLine 65	08410503012 (model with tri-clamp-connection)
Bogen valve for InLine 65	08410503018 (model with thread DN65 - 95 x 1/6")
Ejection valve for InLine 40	08410501002 (model with thread DN40 - 65 x 1/6")
Ejection valve for InLine 50	08410502001 (model with thread DN50 - 78 x 1/6")
Ejection valve for InLine 65	08410503001 (model with thread DN65 - 95 x 1/6")
Ejection valve for InLine 80	08410504001 (model with thread DN80 - 110 x 1/4")
Ejection valve for InLine 100	08410505001 (model with thread DN100 - 130 x 1/4")
Ejection valve for InLine 125	08410502004 (model with thread DN125 - 160 x 1/4")
Ejection valve for InLine 150	on request (model with thread DN150 - 190 x 1/4")



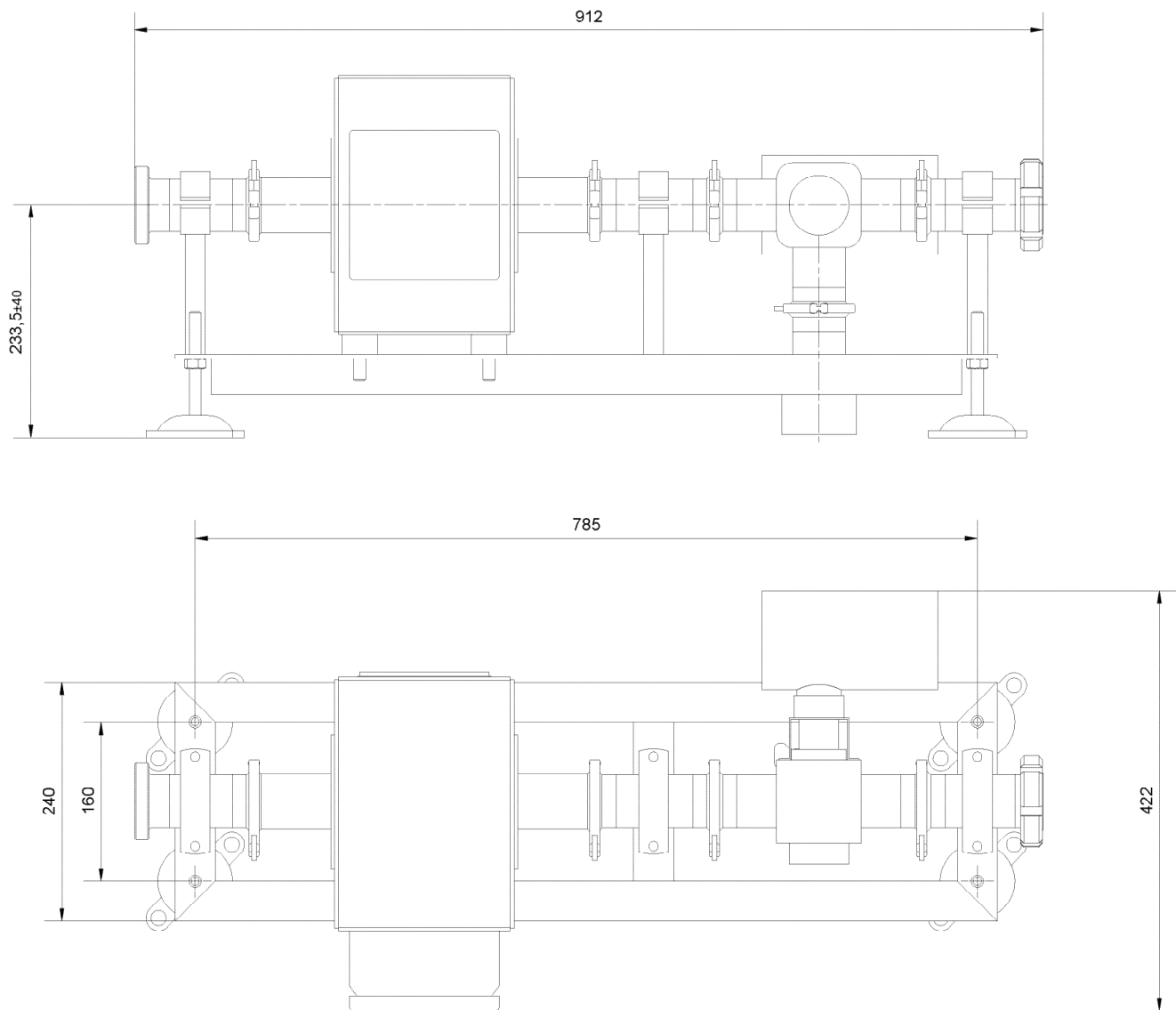
Bogen valve



Ejection valve

EXAMPLE

The drawings show one possible design. Each device will be manufactured individually according to request. Along with different ejection valves you choose among different types of tubes. The frame construction will be adapted according to your specifications in order to allow a smoothly integration in your existing plants.



NOTES

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