

FLOWMETER AND FLOW-SWITCH - CDA / CDV SERIES -



- Works in all positions
- Independent of pressure
- Realised in brass or stainless steel
- Adjustable switch set-point
- Reed switch with IP 65 connector
- Very low hysteresis
- Very compact
- Ranges from 0,1 up to 250 l/min
- Low cost
- Reliable and simple
- Quick mounting
- 2 types
- CDA - Blind + 1 adjustable set point
- CDV - Reading + 1 adjustable set point

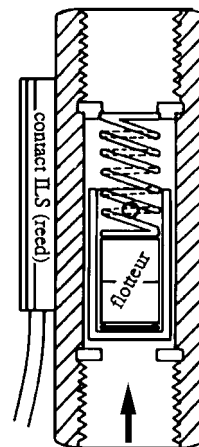
PRINCIPLE

The flow monitors operate on the principle of the float type flow indicator. The float contains permanent magnets. The reed switch is mounted in an adjustable switch housing external to the flow circuit. The flowing medium raises the float in the direction of flow, as soon as the float with its permanent magnets reaches the set-point of the reed switch it will close the contact.

As the flow increases, the float rises further i.e. the contact remains closed and thus ensure bistable switching.

TYPICAL SPHERES OF APPLICATIONS

Water, Chemical, Pharmaceutical industries.



BAMO MESURES

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722/1

SWITCH - Characteristic.

The switch is realised with a reed ampoule enclosed in a polyamide block. The output connection is made through an IP 65 connector with a PE 7 stuffing box.

Adjustment is done by sliding the switch on a guide. A screw allows to keep its positioned.

The switches are SPST types, normally open / no flow.

- CDA / CS switch code 722 901 Suitable for flow-meter R 1/2". and 1".
Breaking capacity 100 VA / 220 V / 1 A
- CDA / CH switch code 722 902 Only on flow- meter in 1/4".
Or to get a low hysteresis on other models
Breaking capacity: 220 VA / 150 V / 0,5 A

SCALE MEASURE RANGE

Standard scales are in l/min (others on request) on the CDV series, the accuracy is +/- 5%.

The scale reading is done with the upper part of the float.

Adjustment of the switch point can be made over the whole scale.

An over-flow can not damage the flow-meter, it will only increase the pressure lost.

MOUNTING

CDA and CDV series allows a vertical or horizontal mounting position.

The medium has to be free of any particles, a filter can be installed ahead previously.

Do not install them in places where are magnetic fields.

Use non-magnetic fittings for connection (Plastic, brass or SS).

Place ferrous material with a distance of 10 mm.

Breaking capacity: Check the installation and use a amplification relay if necessary.

Adjustment of the setting point:

On CDA series: By arrow on scale

On CDV series: Adjust the flow-rate, then adjust the switch to the switching limit to open.

TECHNICAL SPECIFICATIONS

Pressure max. CDA : 300 bar (1/4" and 1/2")
 250 bar (1")

 CDV : 16 bar (1/4" and 1/2")
 10 bar (1")

Temperature : 0-120°C (160°C FPM)

Pressure drop : from 0,02 to 0,2 bar

Material : **CDA brass material**

Body, connection and diaphragm : brass

Spring : S.Steel 304

Glass : Duran 50

Gasket : Perbunan

CDV S.Steel material

Body, connection and diaphragm : S.Steel 316

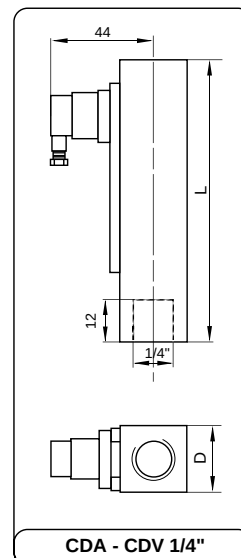
Spring : S.Steel 316

Glass : Duran 50

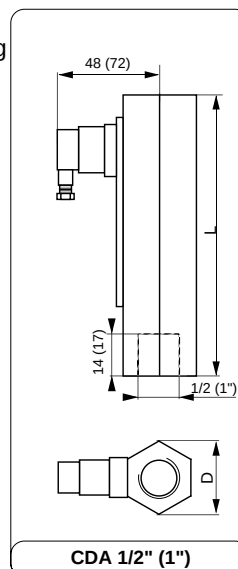
Gasket : Perbunan

CDV

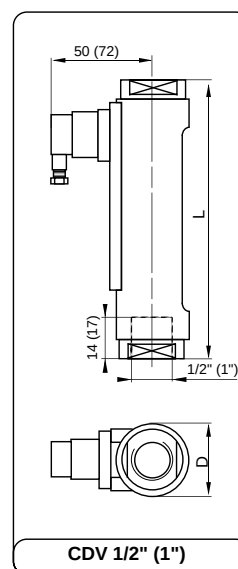
Body in aluminium anodised for all type



CDA - CDV 1/4"



CDA 1/2" (1")



CDV 1/2" (1")

TYPE blind (1)	Code Brass	TYPE Indicator (2)	Code Brass	R"	Flow l / mn	L (mm)		D (mm)		Weight (g)	
						(1)	(2)	(1)	(2)	(1)	(2)
CDA 01	722 100	CDV 01	722 500	1/4"	5 - 60 ml	65	95	17	20	140	140
CDA 02	722 102	CDV 02	722 502	1/4"	20 - 140 ml	65	95	17	20	140	140
CDA 06	722 106	CDV 06	722 506	1/4"	0,1 - 0,6	65	95	17	20	140	140
CDA 3	722 108	CDV 3	722 508	1/4"	0,5 - 3	65	95	17	20	140	140
CDA 7	722 127	CDV 7	722 528	1/2"	2 - 7	90	114	27	32	350	300
CDA 20	722 129	CDV 20	722 529	1/2"	4 - 20	90	114	27	32	350	300
CDA 45	722 133	CDV 45	722 533	1"	15 - 45	130	158	41	50	1000	1000
CDA 90	722 136	CDV 90	722 536	1"	30 - 90	130	158	41	50	1000	1000
CDA 150	722 139	CDV 150	722 539	1"	70 - 150	130	158	41	50	1000	1000

S.Steel : Blind type : code 722 2 . . - Indicator type : code 722 6 . .

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