DAD INTERNATIONAL



Description:

The flow rate transmitters in the series EVS 3100 (aluminium range) are specially designed for use in hydraulic and other fluid technology systems.

They operate according to the turbine principle, i.e. the speed of an impeller turning in the fluid flow is measured and converted into a 4 .. 20 mA analogue signal.

Two further G1/4 threaded holes in the turbine housing provide connections for additional units, e.g. temperature and pressure transmitters.

Special features:

- Pressure resistant to 400 bar (depending on model)
- Viscosities of 1 .. 100 cSt
- Output signal 4 .. 20 mA
- Additional connection of temperature and / or pressure transmitters possible

Electronic Flow Rate Transmitter EVS 3100 for Oils / Viscous Fluids

Technical encoifications

Technical specifications:			
Input data			
Measuring ranges * and operating pressure			
EVS 310X-A-0020	1.2 20.0 l/min	400 bar	
EVS 310X-A-0060	6.0 60.0 l/min	400 bar	
EVS 310X-A-0300	15.0 300.0 l/min	400 bar	
EVS 310X-A-0600	40.0 600.0 l/min	315 bar	
Additional connection options	2 x G1/4 female threads for pressure and/ or temperature sensors		
Output data			
Output signal, permitted load resistance	4 20 mA, 2 conductor R _{Lmax.} = (U _B - 10 V) / 20 mA [kΩ]		
Accuracy	$\leq 2\%$ of the actual value		
Ambient conditions			
Compensated temperature range	-20 +70 °C		
Operating temperature range	-20 +70 °C		
Storage temperature range	-40 +100 °C		
Fluid temperature range	-20 +90 °C		
((mark	EN 61000-6-1 / 2 / 3 /	4	
Protection class to DIN 40050	IP 65 (Binder 714 M18 IP 67 (M12x1, when a is used)		
Other data			
Housing material	Aluminium		
Measuring medium	Hydraulic oils **		
Viscosity range	1 100 cSt		
Calibration viscosity	30 cSt		
Supply voltage	10 32 V DC		
Residual ripple of supply voltage	$\leq 5 \%$		

* Other measuring range ** Other fluids on request Note: Other measuring ranges on request

Model code: EVS 3 1 0 X - A - XXXX - 000 Housing material = Aluminium 0 **Electrical connection** = 4 pole Binder series 714 M18, male 4 (connector not supplied) 6 = M12x1, 4 pole, male (connector not supplied) Signal А = 4 .. 20 mA, 2 conductor Measuring range -0020 = 1.2 .. 20 l/min 0060 = 6.0 .. 60 l/min 0300 = 15.0 .. 300 l/min 0600 = 40.0 .. 600 l/min Modification number

000 = Standard

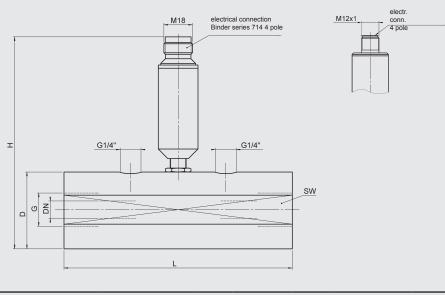
Note:

On units with a different modification number, please read the label or the technical amendment details supplied with the instrument.

Accessories:

Appropriate accessories, such as electrical connectors, can be found in the Accessories section.

Dimensions:



Model	Meas. range	L	Н	D/SW	G	Torque value	DN
	[l/min]	[mm]	[mm]	[mm]		[Nm]	[mm]
EVS 310X-A-0020	1.2 20	117	135	47 / 46	G1⁄4"	60	7
EVS 310X-A-0060	660	144	135	48.5 / 46	G1⁄2"	130	11
EVS 310X-A-0300	15 300	155	150	63.5 / 60	G1¼"	500	22
EVS 310X-A-0600	40 600	181	150	63.5 / 60	G1½"	600	30

Pin connections:

Bir

der series 714 M18

Pin	EVS 3104-A
1	n.c.
2	Signal +
3	Signal -
4	n.c.

M12x1



Pin	EVS 3106-A
1	Signal +
2	n.c.
3	Signal -
4	n.c.

Note:

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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