YDAC INTERNATIONAL



Electronic Flow Rate Transmitter

EVS 3100 for Oils / Viscous Fluids

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

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	or Ο V) / 20 mA [kΩ]		
Accuracy	≤ 2 % of the actual va	lue		
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 /			
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	≤ 5 %			

Note: * Other measuring ranges on request

** Other fluids on request

Housing material = Aluminium

Electrical connection

= 4 pole Binder series 714 M18, male (connector not supplied)

= M12x1, 4 pole, male

(connector not supplied)

Signal

= 4 .. 20 mA, 2 conductor

Measuring range -

0020 = 1.2 .. 20 I/min

0060 = 6.0 .. 60 l/min

0300 = 15.0 .. 300 l/min

0600 = 40.0 .. 600 l/min

Modification number -

000 = Standard

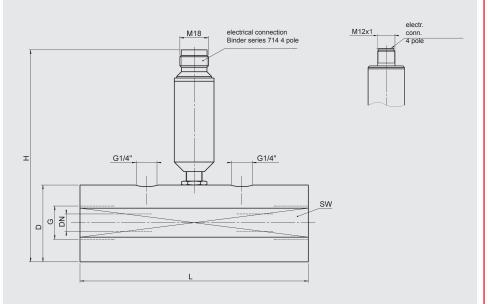
Note:

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:

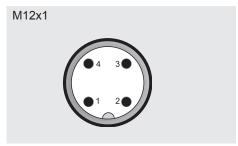


Model	Meas. range	L	Н	D/SW	G	Torque value	DN
	[l/min]	[mm]	[mm]	[mm]		[Nm]	[mm]
EVS 310X-A-0020	1.2 20	117	135	47 / 46	G1/4"	60	7
EVS 310X-A-0060	6 60	144	135	48.5 / 46	G½"	130	11
EVS 310X-A-0300	15 300	155	150	63.5 / 60	G11/4"	500	22
EVS 310X-A-0600	40 600	181	150	63.5 / 60	G1½"	600	30

Pin connections:



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



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.