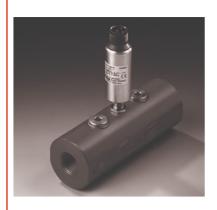


HYDAC INTERNATIONAL



Flow Rate Transmitter EVS 3100

Turbine High accuracy Additional measuring connections

Description:

The flow rate transmitters of the EVS 3100 series (aluminium series) are specially designed for use in hydraulic and other fluid power systems. They operate in accordance with the turbine principle, which means that the rpm of an impeller wheel rotating in the flow of the media is measured and converted into a 4 .. 20 mA analogue signal.

Two further G1/4 threaded holes in the turbine housing allow additional units to be connected, e.g. temperature and pressure sensors.

For oils / viscous fluids

Technical data:

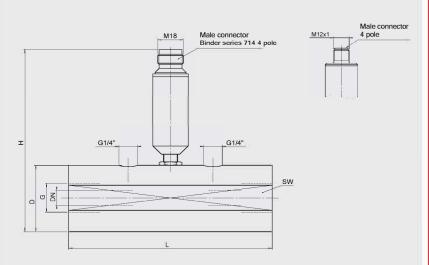
Input data	
Measuring ranges 1) and operating pressure	
1.2 20.0 l/min	400 bar
6.0 60.0 l/min	400 bar
15.0 300.0 l/min	400 bar
40.0 600.0 I/min	315 bar
Additional connection options	2 x G1/4 female threads for pressure and/or temperature sensors
Housing material	Aluminium
Output data	
Output signal, permitted load resistance	4 20 mA, 2-conductor $R_{Lmax} = (U_B - 10 \text{ V}) / 20 \text{ mA } [kΩ]$
Accuracy	≤ 2 % of the actual value
Environmental 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 acc. to DIN EN 60529 2)	IP 65 (Binder male connector 714 M18) IP 67 (M12x1 male connector)
Other data	
Measuring medium 3)	Hydraulic oils
Viscosity range	1 100 cSt
Calibration viscosity	30 cSt
Supply voltage	10 32 V DC
Residual ripple of supply voltage	≤ 5 %
Note: 1) Other measuring ranges on request.	<u> </u>

Other measuring ranges on request.
 With mounted mating connector in corresponding protection class
 Other measuring media on request

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HYQUIP

Dimensions:



Model	Measuring	L	Н	D/SW	G	Torque,	DN
	range					recommended	
	[l/min]	[mm]	[mm]	[mm]		[Nm]	[mm]
EVS 310X-A-0020	1.2 20	117	135	47 / 46	G¼"	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	G1¼"	500	22
EVS 310X-A-0600	40 600	181	150	63.5 / 60	G1½"	600	30

Pin connections:



Pin	EVS 3104-A	
1	Reserved	
2	Signal +	
3	Signal -	
4	Reserved	



Pin	EVS 3106-A	
1	Signal +	
2	Reserved	
3	Signal -	
4	Reserved	

Model code:

EVS 3 1 <u>0 X - A - XXXX - 000</u>

Housing material aluminium

Electrical connection

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

6 = male M12x1, 4 pole (mating connector not supplied)

Output signal

= 4 .. 20 mA, 2-conductor (4 mA ≙ 0 l/min)

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

Accessories:

Appropriate accessories, such as mating connectors, can be found in the Accessories brochure.

Note:

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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