

HYDAC INTERNATIONAL



Flow Rate Transmitter EVS 3110

Turbine High accuracy Additional measuring connections

Description:

The flow rate transmitters in the EVS 3110 series (stainless steel 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.

In the EVS 3110 stainless steel series, the impeller has a carbide bearing and the resulting increased robustness also makes it suitable for use in pulsating, dynamic applications.

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

For water-based media

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 l/min	400 bar				
Additional connection options	2 x G1/4 female threads for pressure and/or temperature sensors				
Housing material	Stainless steel				
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)	Water-based media				
Viscosity range	1 100 cSt				
Calibration viscosity	5 cSt				
Supply voltage	10 32 V DC				
Residual ripple of supply voltage	≤ 5 %				
Note: 1) Other measuring ranges on request.	_				

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

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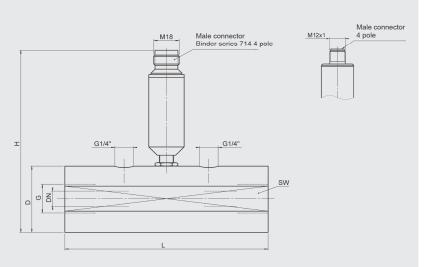


Pin	EVS 3114-A	
1	Reserved	
2	Signal +	
3	Signal -	
4	Reserved	



Pin	EVS 3116-A
1	Signal +
2	Reserved
3	Signal -
4	Reserved

Dimensions:



Model	Measuring	L	Н	D/SW	G	Torque,	DN
	range					recommended	
	[l/min]	[mm]	[mm]	[mm]		[Nm]	[mm]
EVS 311X-A-0020	1.2 20	117	135	47 / 46	G1/4"	60	7
EVS 311X-A-0060	6 60	144	135	48.5 / 46	G½"	130	11
EVS 311X-A-0300	15 300	155	150	63.5 / 60	G11/4"	500	22
EVS 311X-A-0600	40 600	181	150	63.5 / 60	G1½"	600	30

Model code:

EVS 3 1 1 X - A - XXXX - 000

Housing material

1 = stainless steel

Electrical connection

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

= male M12x1, 4 pole

(mating connector not supplied)

Output signal
A = 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.

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