



Flow Rate Transmitter EVS 3100-H / EVS 3110-H

Turbine

Accuracy 2 %

With HSI sensor recognition

Description:

The flow rate transmitters of the EVS 3100-H and EVS 3110-H series with HSI sensor recognition were specially developed for use in conjunction with the HYDAC measuring instruments HMG 5x0, HMG 2500, HMG 4000 and CMU 1000.

For data transmission, the EVS 31x0-H has an HSI interface (HYDAC Sensor Interface).

The HSI sensors are recognised automatically via the HSI interface by the above-mentioned HYDAC measuring instruments, and all the necessary basic settings are taken from each instrument.

As is the case with all flow rate measurement transmitters of the EVS 3100 and EVS 3110 series, the EVS 31x0-H also operates in accordance with the turbine principle. The speed of an impeller turning in the fluid flow is measured and converted into an electronic signal.

Technical data:

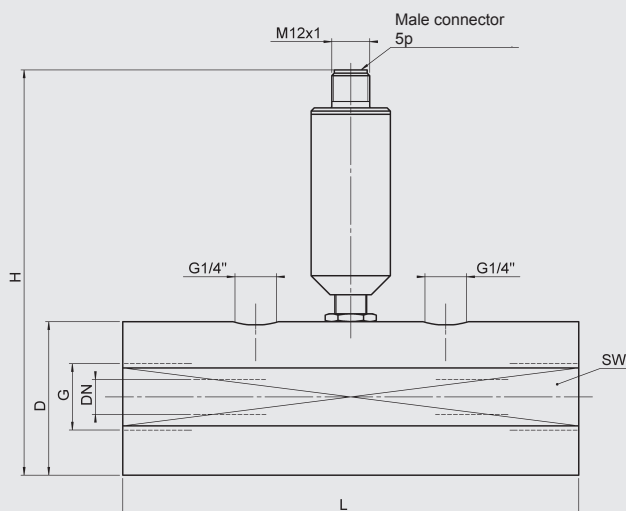
Input data		
Measuring ranges ¹⁾ and operating pressure		
EVS 3108-H-0020	1.2 .. 20.0 l/min	400 bar
EVS 3118-H-0020		
EVS 3108-H-0060	6.0 .. 60.0 l/min	400 bar
EVS 3118-H-0060		
EVS 3108-H-0300	15.0 .. 300.0 l/min	400 bar
EVS 3118-H-0300		
EVS 3108-H-0600	40.0 .. 600.0 l/min	315 bar
EVS 3118-H-0600	40.0 .. 600.0 l/min	400 bar
Additional connection options	2 x G1/4 female threads for pressure and/or temperature sensors	
Housing material	EVS 3100-H: aluminium EVS 3110-H: stainless steel	
Output data		
Output signal	HSI (HYDAC Sensor Interface) Automatic sensor recognition	
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	
CE mark	EN 61000-6-1 / 2 / 3 / 4	
Protection class acc. to DIN EN 60529 ²⁾	IP 67	
Other data		
Measuring medium ³⁾	EVS 3100-H: hydraulic oils EVS 3110-H: water-based media	
Viscosity range	1 .. 100 cSt	
Calibration viscosity	EVS 3100-H: 30 cSt EVS 3110-H: 5 cSt	
Supply voltage	Via HYDAC measuring instruments HMG 5x0, HMG 2500, HMG 4000 or CMU 1000	

Note: ¹⁾ Other measuring ranges on request

²⁾ With mounted mating connector in corresponding protection class

³⁾ Other measuring media on request

Dimensions:



Model	Meas. range [l/min]	L [mm]	H [mm]	D / SW [mm]	G [mm]	Torque value recommended [Nm]	DN [mm]
EVS 3108-H-0020	1.2 .. 20	117	135	47 / 46	G1/4"	60	7
EVS 3108-H-0060	6 .. 60	144	135	48.5 / 46	G1/2"	130	11
EVS 3108-H-0300	15 .. 300	155	150	63.5 / 60	G1 1/4"	500	22
EVS 3108-H-0600	40 .. 600	181	150	63.5 / 60	G1 1/2"	600	30
EVS 3118-H-0020	1.2 .. 20	117	135	47 / 46	G1/4"	60	7
EVS 3118-H-0060	6 .. 60	144	135	48.5 / 46	G1/2"	130	11
EVS 3118-H-0300	15 .. 300	155	150	63.5 / 60	G1 1/4"	500	22
EVS 3118-H-0600	40 .. 600	181	150	63.5 / 60	G1 1/2"	600	30

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.

Model code:

EVS 3 1 X 8 - H - XXXX - 000

Housing material

- 0 = aluminium
- 1 = stainless steel

Electrical connection

- 8 = male M12x1, 5 pole
(mating connector not supplied)

Output signal

- H = HSI (automatic sensor recognition)

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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