

SHARKY FS 475

Flow Sensor | Ultrasonic

EWT



SHARKY FS 475

Flow Sensor | Ultrasonic



TECHNICAL DATA

Nominal flow rate	q _p	m ³ /h	120	200	300	500	800	1120	1500	1900	2950
Nominal diameter	DN	mm	100	125	150	200	250	300	350	400	500
Overall length	L	mm	350	350	500	500	600	500	550	600	625
Minimum flow rate (1:100 of q _p)	q _i	m ³ /h	1,20	2,00	3,00	5,00	8,00	11,20	15,00	19,00	29,50
Maximum flow rate	q _s	m ³ /h	180	280	420	700	1120	1560	2100	2660	4130
Overload flow range (105% of q _s)	q _{max}	m ³ /h	189	294	441	735	1176	1638	2205	2793	4336,5
Operating pressure	PN	bar	16	16	16	16	16	16	16	16	16
			-	-	-	25	25	25	25	25	25
pulse value		l/pulse	10	10	100	100	100	100	100	100	1.000

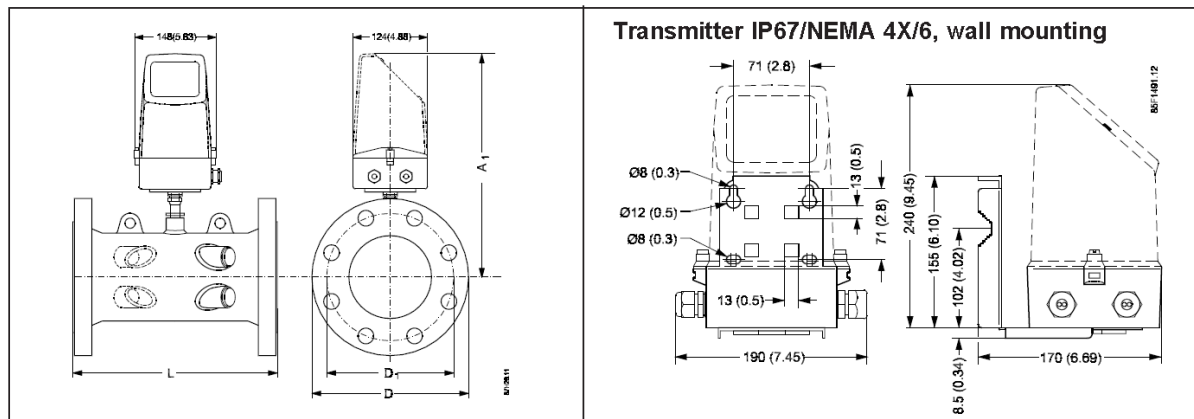
* OIML R 75 and MID flow values

q_i (q_{min}) means the minimal and q_p (q_{nom}) the nominal flow rate according to the approval requirements.

q_s is the highest operatable flow rate. The maximum flow rate (q_{max}) is 105 % of q_s. The low flow cut off is 50 % of q_i.

q_i, q_p and q_s are shown on the system nameplate of the SHARKY FS 475.

DIMENSIONS



Nominal flow rate	q _p	m ³ /h	120	200	300	500	800	1120	1500	1900	2950
Nominal diameter	DN	mm	100	125	150	200	250	300	350	400	500
Overall length	L	mm	350	350	500	500	600	500	550	600	625
Height	A ₁	mm	375	380	390	414	440	466	495	507	558
Flange diameter	D	mm	220	250	285	340	405	460	520	580	715
Screw hole diameter	D ₁	mm	180	210	240	295	355	410	470	525	650
Number of screw holes	PN16	pcs	18	18	22	22	26	26	26	30	190
Weight	PN16	kg	15	18	28	38	60	66	94	124	190
Number of screw holes	PN25	pcs	-	-	-	26	30	30	33	36	-
Weight	PN25	kg	-	-	-	47	76	81	121	153	244
Number of screw holes	PN40	pcs	22	26	26	30	33	-	-	-	-
Weight	PN40	kg	18	24	34	55	91	-	-	-	-
Lift hug			yes	yes	yes	yes	yes	yes	yes	yes	yes

* OIML R 75 and MID flow values

SHARKY FS 475

Flow Sensor | Ultrasonic

EWT

Technical specifications

Pipe design	2-path sensor with flanges and inline transducers wet-calibrated from factory
Nominal size welded version	DN 100, 125, 150, 200, 250, 300, 350, 400, 500
Pressure rate	PN 16, PN 25, PN 40 EN 1092-1
Pipe material	DN 100 ... DN 500: Carbon Steel EN 1.0345/P235 GH, painted in light-gray.
Transducer design	DN 100 ... DN 500: Inline version and welded onto the pipe
Transducer material	Stainless steel (AISI 316/1.4404)/brass (CuZn ₃₆ Pb ₂ As)

Sensor operating conditions

Storage	-40 ... +85 °C (-40 ... +185 °F)
Measured media	Heating water, according to VDI-2035 (pH 8.2 - 10.5), industrial VdTÜV information sheet 1466 and AGFW information sheet FW 510.
Media/surface temperature	DN 100 ... DN 500: Remote: 2 ... 200 °C (35.6 ... 392 °F) MID: min. +15 °C/+59 °F DN 100 ... DN 500: Compact: 2 ... 120 °C (35.6 ... 248 °F) MID: min. +15 °C/+59 °F
Degree of protection	Sensor connection IP67/NEMA 4X/6
Electromagnetic compatibility	
Emitted interference	To EN 61000-6-4
Noise immunity	To EN 61000-6-2
MID	Environment class E2 and M1
Max. flow velocity at Q _s	DN 100 ... DN 500: 9 m/s (29.5 ft/s)

Sensor cable

Cable length	Max. 30 m (98.4 ft) between transmitter and sensor
--------------	--

Certificates and approvals

Material certificate	Material certificate according EN 10204-3.1 is optionally available.
Calibration report	A standard calibration report is shipped with every flowmeter. Extended accredited ISO/IEC 17025 calibration certificates optionally available

Approvals	Approval standards: N 1434 and OIML R 75 Class 2 Type approval: ID, MI-004, class 2 approval and certification (according to EN 434)
-----------	---