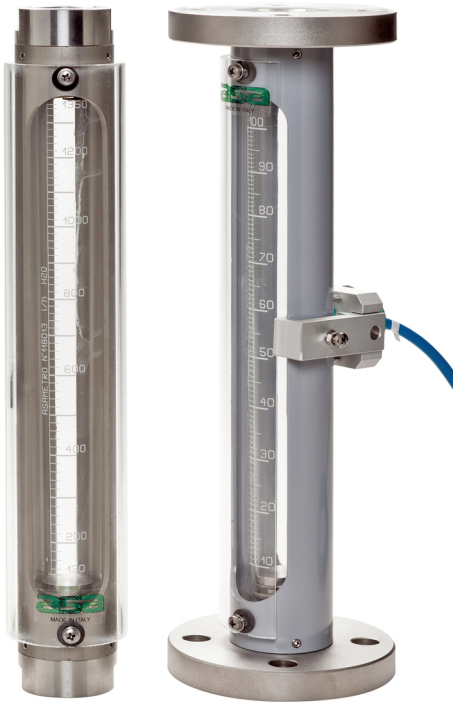


# Variable area glass flow indicators E Series



- Direct reading
- Accuracy  $\pm 2\%$
- For liquids or for gases
- Materials according ranges
- Adjustable contacts

## APPLICATIONS

The E series flow indicators are used for flow-rate reading or on gases or on liquids:

- Water treatment plants
- Manufactures (pulp industry, textile industry, etc.)
- Chemical, pharmaceutical industries
- Heating or cooling plants

## DESCRIPTION

The E Series are variable area flow indicators, the diver ("float") moves inside a calibrated conical tube.

These flow indicators may be calibrated according the fluid properties and operating conditions.

They accept flow switches, inductive monostable contacts, adjustable over the entire measuring range.

## TECHNICAL FEATURES

Accuracy	$\pm 2\%$ F. S. (Full Scale)
Repeatability	$\leq 0.25\%$ of reading
Scale length	250 mm
Unit	On request of customer
Temperature limits	0... 90 °C with Buna seals 0... 120 °C with FPM seals
Fittings	Or BSP-F Or flanges (DIN, ANSI, etc.)
<b>Materials</b>	
Thread fittings	Or carbon steel, or AISI 316, or PVDF On request: Hastelloy, Titanium
Flanges	Or AISI 316, or painted carbon steel
Measuring tube	Borosilicate glass
Spherical diver	According to specifications (see further on)
Conical diver	Standard: AISI 316 L; Or Aluminum (application for air) Options: PVDF, PTFE, Hastelloy B or C, Monel or titanium
Stops	AISI 316 L, or PVDF On request: Hastelloy, monel
Seals	Standard: NBR; Or FPM
Body	Epoxy painted carbon steel Or AISI 304 L

### Monostable inductive contacts

Intrinsically safe version (CENELEC, EEX ib II C)	
Repeatability	$\pm 0.3\%$ F.S.
Ambient temperature	-25 ... +60 °C
Protection	IP 67
Cable length	1 m

### Accessories

Transparent protection screen	PMMA
Guiding rod (when specified)	Or AISI 316, Or same material as of the diver

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## MEASURING RANGES

- Ranges in l/h for water at 20 °C
- Ranges in NI/h for air at 20 °C and P = 1013 mbar abs
- Operating pressure, Max. at T < 100 °C: see next table

Diver type	l/h	ΔP [mbar]	NI/h	ΔP [mbar]	P Max.
Model 2600 - spherical divers					
Glass ball	0.07 ... 1		3...60		24 bar
Stainless steel ball	0.2 ... 3		10...115		
Glass ball	0.1 ... 2.5		4...115		
Stainless steel ball	0.2 ... 6		16...220		
Glass ball	0.05 ... 4		4...190		
Stainless steel ball	0.1 ... 10		10...340		
Glass ball	0.3 ... 11		20...560		
Stainless steel ball	1...30		40 ... 1,000		
Tungsten carbide ball	1...45		100 ... 1,400		
Glass ball	1.9 ... 19		85...850		
Stainless steel ball	5...50		160 ... 1,600		
Tungsten carbide ball	7...70		200 ... 2,100		
Model 2600 - conical divers					
AISI 316 L, conical Aluminum, conical (*)	4...40	3	100 ... 1,000 *	2	21 bar
	6.3 ... 63	8	130 ... 1,300 *	4	
	7...70	10	160 ... 1,600	5	
	10...100	7	160 ... 1,600 *	2	
	13...130	12	250 ... 2,500	5	
			250 ... 2,500 *	5	
			400 ... 4,000	12	
	16...160	4	400 ... 4,000 *	2	
	25...250	10	600 ... 6,000 *	5	
	32...320	16	630...630	6	
		1,000 ... 10,000	15		
2800 Models (conical divers)					
AISI 316 L, conical Aluminum, conical (*)	40...400	8	1,000 ... 10,000 *	6	14 bar
	63..630	19	1,250 ... 12,200 *	9	
	65...680	23	1,600 ... 16,000	15	
	100 ... 1,000	18	1,600 ... 16,000 *	5	
	130 ... 1,300	33	2,500 ... 23,500 *	13	
			2,500 ... 23,500	13	
		4,000 ... 40,000	34		
3000 Models (conical divers)					
AISI 316 L, conical Aluminum, conical (*)	160 ... 1,600	11			10 bar
	250 ... 2,500	27	4,000 ... 40,000 *	9	
	320 ... 3,200	44	5,500 ... 58,000 *	17	
			6,300 ... 63,000	22	
			1,000 ... 10,000	63	7 bar
	400 ... 4,000	20	6,300 ... 63,000 *	6	
	630 ... 6,300	48	10,000 ... 100,000 *	15	
	700 ... 7,000	60	12,500 ... 125,000 *	23	
		16,000 ... 160,000 *	38		
Models 3100 (conical divers)					
AISI 316 L, conical Aluminum, conical (*)	1,000 ... 10,000	45	16,000 ... 160,000 *	13	6 bar
	1,300 ... 13,000	76	24,000 ... 240,000 *	30	
			25,000 ... 250,000	32	
			40,000 ... 400,000	82	

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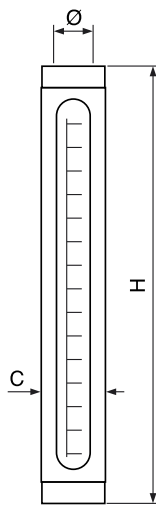
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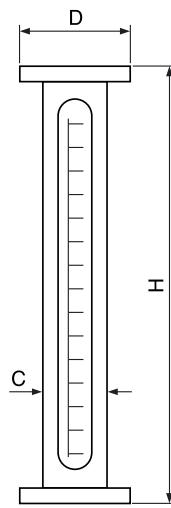
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The flow rates indicated in bold type refer to models with aluminum divers.

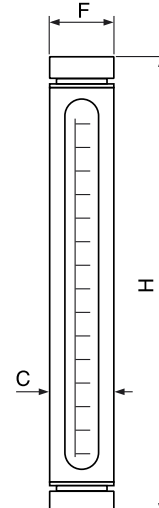
## DIMENSIONS



(1)



(2)



(3)

### (1) E5 Series - female thread fittings

Model	Ø	Ø C [mm]	H [mm]	Mass [kg]
E5-2600	½"	38	360	1.0
E5-2800	1"	54	360	2.1
E5-3000	1 ½"	80	460	5.9
E5-3100	2"	100	490	9.6

### (2) E6 series - PN 10 flanged fittings

Model	ND	Ø C [mm]	Ø D [mm]	H [mm]	Mass [kg]
E6-2600	15	38	95	353	2.2
E6-2800	25	54	115	353	4.1
E6-3000	40	80	150	446	9.2
E6-3100	65	100	185	480	15.2

### (3) E5 series - DIN 11851 fittings

Model	ND	Ø C [mm]	Ø F [mm]	H [mm]	Mass [kg]
E5-2600	20	38	44 x 1/6	357	1.2
E5-2800	25	54	52 x 1/6	381	2.5
E5-3000	40	80	65 x 1/6	470	8.1
E5-3100	65	100	95 x 1/6	510	15.2

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