Process Analytics

Fittings and Controllers

ARD 50 Immersion Fitting

Modular Fitting with an Extraordinary Range of Functions for a Single Sensor

The fitting is used for measuring in tanks, basins and channels. For maximum flexibility, it offers numerous functions that can be freely combined. High-quality PP-H or PVDF makes it very sturdy. The special design facilitates sensor replacement.

Applications

PP-H: Water, wastewater,

industrial water

PVDF: Chemical and petrochemical

industry, power plants, electroplating, ore processing

Catenary suspension

Ambient side with cable gland

Plastic tube with special sleeve geometry 25 ... 250 cm long



Facts and Features

- High variability adaptable to virtually every process
- Safe functioning,
 easy maintenance thanks to a special and unique design
- Easy removal/installation of the sensor adapter with just ½ turn of a coupling nut (manual).
- Removal of the sensor adapter through the top or from the bottom of the immersion pipe.
- No cable twisting during sensor installation
- Sensor adapter: PG 13.5 /
 SE 655, SE 656 (G ¾") / ¾" NPT
- Rinse function for cleaning the sensor without opening or dismantling the fitting (PG 13,5, internal supply of rinse medium incl. check valve)
- Immersion depths: 25 250 cm
- Materials: PP-H, PVDF
- High pressure and temperature resistance
- Wetting cup
- Process connections:
 flange DN 50 DN 100 or
 ANSI 2" 4", optionally with sliding flange bushing, wall holder,
 catenary suspension
 (also as submersible version)
- Cable glands: EPDM cap with cable support sleeves and strain relief, submersible cable glands
- Stainless steel bracket for strain relief of the sensor cable



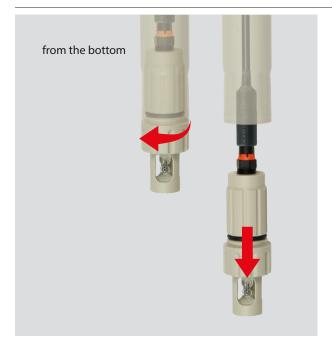


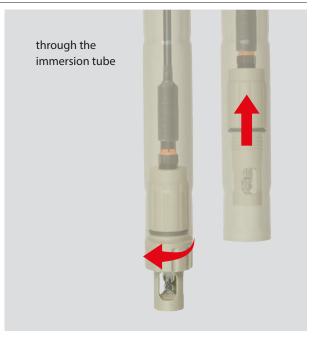
ARD 50 Immersion Fitting

Specifications

Sensors	Ø12 mm, length 120 mm, thread P	G 13.5, SE 655 / SE 656, thread ¾" NPT					
Diameter	50 mm						
Pressure/Temperature	See diagram						
Process adaptations	Loose flange EN 1092-1	DN50 / DN65 / DN80 / DN100					
	Loose flange ANSI B 16.5/150 lbs	2" / 21/2" / 3" / 4"					
	Wall holder	stainless steel 1.4571					
	Catenary suspension	also as submersible version					
Process-wetted materials	Fitting	PP-H/PVDF					
	Sealing material	EPDM / FKM / FFKM / FFKM Perlast G75B					
	Rinsing (option)	PEEK, Hastelloy					
	Catenary suspension	Nylon rope					
Sensor protection in the process	Probe guard integrated in the sensor adapter for sensors with 12 mm dia., 120 mm length, PG 13.5 thread						
Immersion depth	25, 50, 100, 150, 200, 250 cm (special lengths available from 25 cm)						
Inlet for rinsing (option)	Hose	NW 6 mm					
	Material	EPDM					
	Check valve in the sensor adapter						
Transport and storage temperature	14 158 °F (-10 70 °C)						
Ambient temperature	23 131 °F (-5 55 °C)						
Protection according to EN 60529	Ambient side open	IP10					
	Ambient side rubber cap	IP65					
	Ambient side cable gland	IP68 (immersion depth: 10 m permanently) and IP66					

Removing the Sensor Adapter for Replacing the Sensor





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Modular System

This immersion fitting comes in 6 different nominal lengths (special lengths available). The modular system is completed by various cable glands, process connections and sensor adapters.





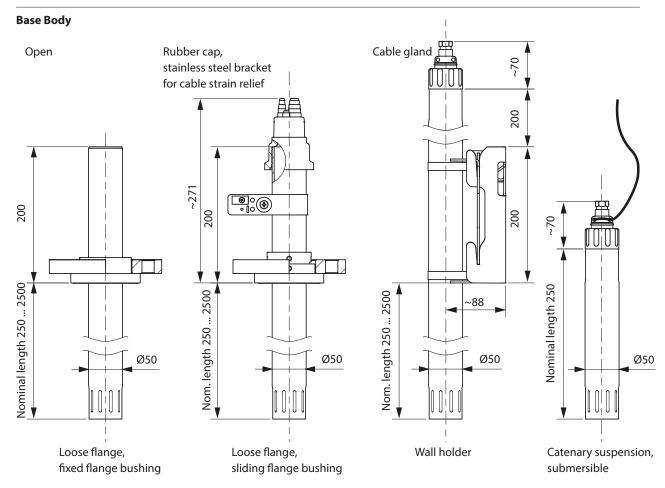
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Product Range

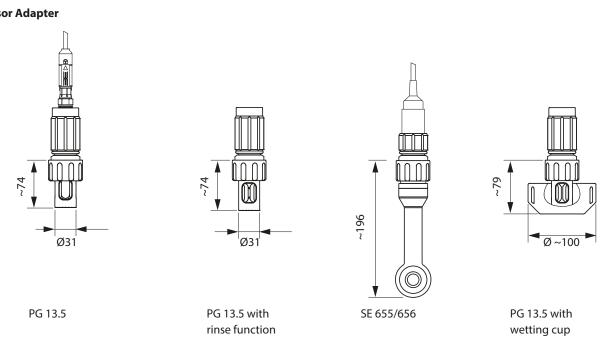
Immersion fitting	ARD 50-	1								-		
Material of fitting	PP-H	P										
	PVDF	D										
Sensor adapter	1 x PG 13.5		1									
	1 x PG 13.5 with rinse function		2			A/B/C/D						
	SE 655 (X) / SE 656 (X)		5									
	3/4" NPT		6									
Sensor adapter with	1 x PG 13.5		Α									
wetting cup	1 x PG 13.5 with rinse function		В									
Gasket material	FKM			Α								
	EPDM			В								
	FFKM			K								
	FFKM Perlast G75B			L								
Process adaptation	Loose flange, DN50 PN 10/16				0 B 1							
	Loose flange, DN65 PN 10/16				0 B 2							
	Loose flange, DN80 PN 10				0 B 3							
	Loose flange, DN100 PN 10				0 B 4							
	Loose flange, DN50 PN 10/16, sliding flange bushi	ng			V B 1							
	Loose flange, DN65 PN 10/16, sliding flange bushi	ng			V B 2							
	Loose flange, DN80 PN 10, sliding flange bushing				V B 3							
	Loose flange, DN100 PN 10, sliding flange bushing	ı			V B 4							
	Loose flange, ANSI 2" PN 16				0 D 1							
	Loose flange, ANSI 2.5" PN 16				0 D 2							
	Loose flange, ANSI 3" PN 16				0 D 3							
	Loose flange, ANSI 4" PN 16				0 D 5							
	Loose flange, ANSI 2" PN 16, sliding flange bushing	9			V D 1							
	Loose flange, ANSI 2.5" PN 16, sliding flange bushi	-			V D 2							
	Loose flange, ANSI 3" PN 16, sliding flange bushing	-			V D 3							
	Loose flange, ANSI 4" PN 16, sliding flange bushing				V D 5							
	Wall holder with locking function, stainless steel 1	.4571			0 0 1							
	Catenary suspension				0 0 2	B/D/E/F						
	Catenary suspension, submersible version				0 0 3	Е	0	2	5			
Ambient side	Open					Α						
	Open, stainless steel bracket for cable strain relief					В						
	Rubber cap with EPDM cable support sleeves Rubber cap with EPDM cable support sleeves,					C D						
	stainless steel bracket for cable strain relief					D						
	Submersible cable gland					Е						
	Submersible cable gland, stainless steel bracket					F						
	for cable strain relief					•						
Nominal	25						0	2	5			
body length [cm]	50						0	5	0			
	100						1	0	0			
	150						1	5	0			
	200						2	0	0			
	250						2	5	0			
	Special length (25 cm minimum)						*	*	*			
Special options	Without									0	0	0
Special options	· · · · · · · · · · · · · · · · · · ·											

Fittings and Controllers

Dimension Drawings



Sensor Adapter





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Pressure/Temperature Diagram

