

## ARD 50 EL Immersion Fitting

**Modular Fitting with an Extraordinary Range of Functions.**

The fitting is used for measuring in tanks, basins and channels. For maximum flexibility, it offers numerous functions that can be combined. The special design facilitates sensor replacement. High-quality PP-EL makes it very sturdy and guarantees the electrical conductivity. Conductivity is increased by a special soot, which also provides UV protection.

### Applications

Electroplating, ore processing, operation in hazardous areas

### 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)
- No cable twisting during sensor installation
- Sensor adapter: PG 13,5
- 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
- Material: PP EL
- High pressure and temperature resistance
- Process connections: flange DN 50 – DN 100 or ANSI 2" - 4", optionally with sliding flange bushing
- wall holder
- catenary suspension (also as submersible version)
- pipe clamp
- Cable glands: EPDM cap with cable support sleeves and strain relief, submersible cable glands
- Stainless steel bracket for strain relief of the sensor cable



Catenary suspension

Ambient side with cable gland

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



Sensor adapter

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## Specifications

Sensors	Ø12 mm, length 120 mm, thread PG 13.5	
Diameter	50 mm	
Process pressure/temperature	Pressureless, max. 0.5 bar hydrostatic pressure (0 ... 80 °C)	
Process connections	Loose flange EN 1092-1	DN50 / DN65 / DN80 / DN100
	Loose flange ANSI B 16.5/150 lbs	2" / 2½" / 3" / 4"
	Wall holder	Stainless steel 1.4571
	Catenary suspension	Also as submersible version
Wetted materials	Pipe clamp	Adjustable stop, stainless steel 1.4571
	Fitting	PP EL
	Sealing material	EPDM / FKM / FFKM / FFKM Perlast G75B
	Rinsing	PEEK, Hastelloy
Sensor protection in the process	Catenary suspension	Rope: polyamide
	Probe guard integrated in the sensor adapter for sensors with 12 mm dia., 120 mm length, PG 13.5 thread	
Immersion depth	250, 500, 1000, 1500, 2000, 2500 mm [special lengths (in cm) available on request]	
Rinsing	Hose	NW 6 mm
	Material	EPDM
	Check valve in the sensor adapter	
Transport and storage temperature	-10 ... 70 °C	
Ambient temperature	-5 ... 55 °C	
Protection according to EN 60529	Ambient side open	IP10
	Ambient side with rubber cap	IP65
	Ambient side cable gland	IP68 (immersion depth: 10 m permanently) and IP66

## Removing the Sensor Adapter for Replacing the Sensor



**Modular System**

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



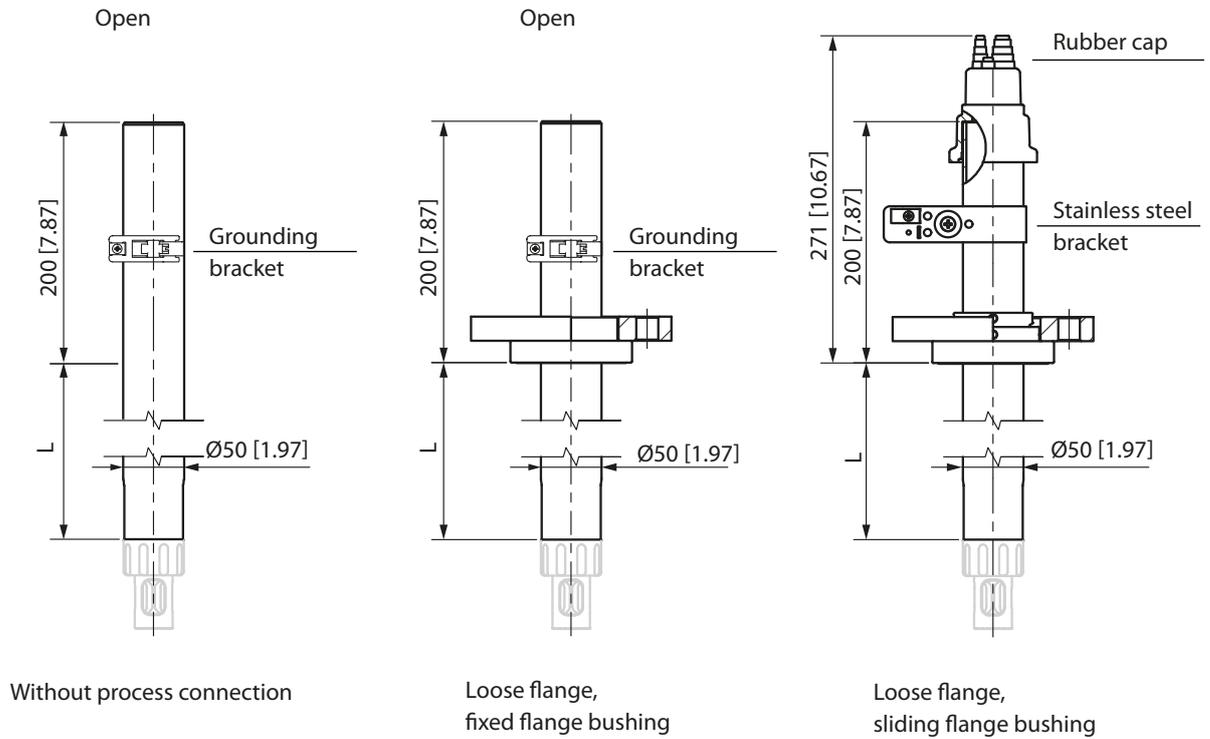
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## Product Range

		ARD 50 EL-										
		N	P									
Material	PP, conductive											
Sensor adapter	1 x PG 13.5	1										
	1 x PG 13.5; with rinse function	2				A/B/C/D						
Gasket material	FKM		A									
	EPDM		B									
	FFKM		K									
Process connection	Without process connection			0	0	0						
	Flange, loose, PN10/16, DN 50			0	B	1						
	Flange, loose, PN10/16, DN 65			0	B	2						
	Flange, loose, PN10/16, DN 80			0	B	3						
	Flange, loose, PN10/16, DN 100			0	B	4						
	Flange, loose, ANSI, 150 lbs, 2"			0	D	1						
	Flange, loose, ANSI, 150 lbs, 2,5"			0	D	2						
	Flange, loose, ANSI, 150 lbs, 3"			0	D	3						
	Flange, loose, ANSI, 150 lbs, 4"			0	D	5						
	Wall holder with locking function, stainless steel 1.4571			W	0	0						
	Catenary suspension			S	0	0	B/D/E/F					
	Catenary suspension, submersible version with weight			S	T	0	E	0	2	5		
Pipe clamp with adjustable stop			R	0	0							
Ambient side	Open					A						
	Open, stainless steel bracket for cable strain relief					B						
	Rubber cap with EPDM cable support sleeves					C						
	Rubber cap with EPDM cable support sleeves, stainless steel bracket for cable strain relief					D						
	Submersible cable gland					E						
	Submersible cable gland, stainless steel bracket for cable strain relief					F						
Nominal body length [cm]	25						0	2	5			
	50						0	5	0			
	100						1	0	0			
	150						1	5	0			
	200						2	0	0			
	250						2	5	0			
	Special length (min. 25 cm)						*	*	*			
Special version	None									0	0	0
	Customer-specific special data sheet									F		

**Dimension Drawings**

**Base Body**

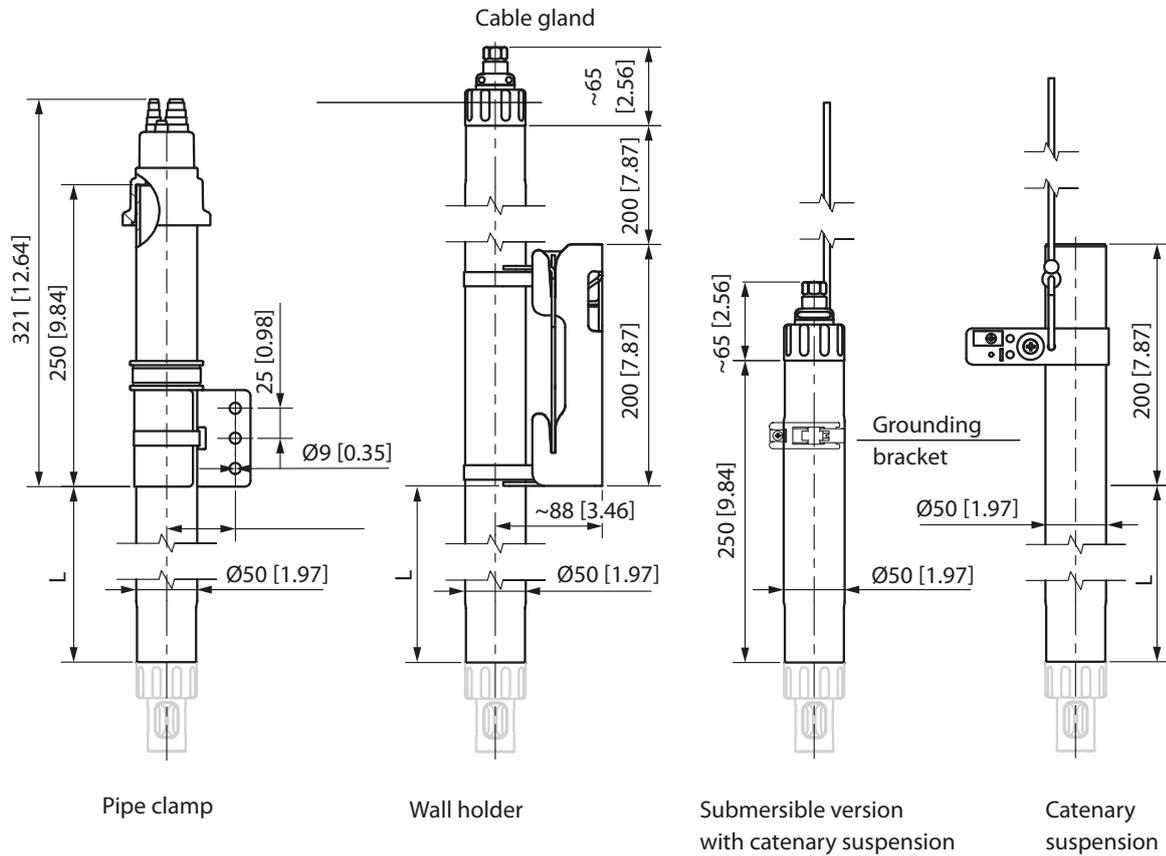


L = Nominal body length, see product range

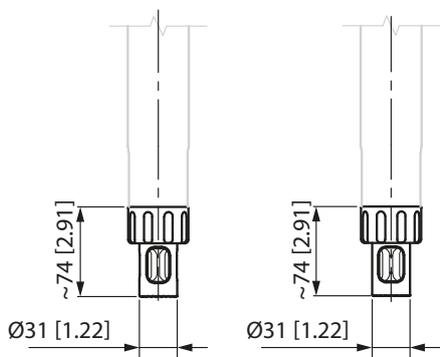
# ARD 50 EL Immersion Fitting

## Dimension Drawings

### Base Body



### Sensor Adapters



PG 13.5

PG 13.5 with  
rinse function

All dimensions in mm [inches]