Fittings and Controls



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ARD 75 Immersion Fitting

Modular Fitting with a Wide Range of Functionality.

The fitting for measuring in tanks, basins, and channels provides maximum flexibility with its wide range of combinable functions. The special design facilitates sensor replacement. The use of high-quality PP-H or PVDF guarantees the durability of the fitting. For measurements with up to 3 sensors (PG 13.5) or practically any commercial sensor.

Applications

PP-H: water, wastewater, indus-

trial water

PVDF: chemical and petrochem-

ical industries, power plants, electroplating, ore

processing

Catenary suspension

Ambient side with cable gland

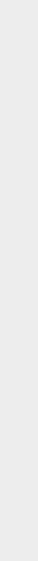


Sensor adapter



Facts and Features

- Flexibility adaptable to almost any process
- Reliable operation, easy maintenance thanks to special, unique design
- Easy removal and installation of sensor adapter
- Sensor adapter can be removed either inward through the immersion tube or outward
- No cable twist when mounting the sensor
- Sensor adapter: 3 x PG 13.5, also for pressurized sensors, G1" and ¾", NPT 1" and ¾", and 1 x PG 13.5 with adapter and lock-gate function
- Rinse function for cleaning the sensors without opening or removing the fitting (PG 13.5, internal rinse medium feed incl. check valve)
- Immersion depths: 250 ... 2500 mm
- Materials: PP-H, PVDF
- High pressure and temperature resistance
- Wetting cup
- Process connections:
 DN 80 DN 100 or
 ANSI 3" 4" flange, optionally with sliding flange bushing
 Wall holder
 Catenary suspension
 (also as submersible version)
 Pipe clamp
- Cable gland:
 EPDM cap with cable support sleeves and strain relief, submersible cable glands
- Stainless steel bracket for sensor cable strain relief



Knick >



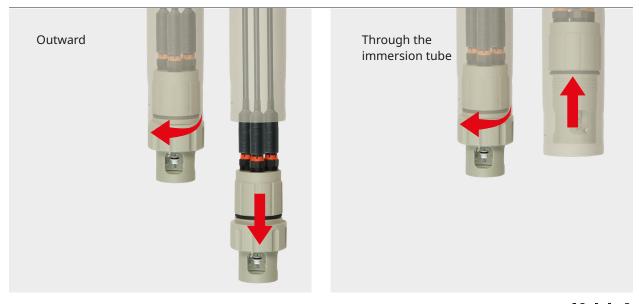
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ARD 75 Immersion Fitting

Specifications

Sensors	3x Ø12 mm, length 120 mm, thread PG 13.5/SE670 G1/SE655, SE656/ thread ¾" NPT/1" NPT/SE680/G1 for SE604-MS, SE605-MS, SE630 75 mm						
Diameter							
Pressure-temperature	See diagram						
Process connections	Loose flange, DIN EN 1092-1 Loose flange, ANSI B 16.5/150 lbs Wall holder Catenary suspension Pipe clamp	DN80/DN100 os 3"/4" Stainless steel 1.4571 Also as submersible version Adjustable stop, stainless steel 1.4571					
Process-wetted materials	Fitting Seal material Rinsing Catenary suspension	PP-H/PVDF EPDM/FKM/FFKM/FFKM Perlast G75B PEEK, Hastelloy Cable: Polyamide					
In-process sensor protection	Probe guard integrated in sensor adapter for sensors Ø12 mm, length 120 mm, PG 13.5 thread						
Immersion depth	250, 500, 1000, 1500, 2000, 2500 mm [specific special lengths (state requirement in cm) on request]						
Rinsing	Tubing Material Check valve in sensor adapter	NW 6 EPDM					
Transport and storage temperature	-10 70 °C						
Ambient temperature	Material: PP-H Material: PVDF	-5 55 °C -15 55 °C					
Degree of protection acc. to DIN EN 60529	Ambient side open Ambient side rubber cap Ambient side cable gland	IP00 IP65 IP68 (immersion depth: permanent 10 m) and IP66					

Removing the sensor adapter to replace the sensor



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Fittings and Controls

Modular System

This immersion fitting is available in six different nominal lengths (other lengths on request). A range of cable glands, process connections, and sensor adapters complete the modular system.



Open, with stainless steel bracket for sensor cable strain relief

Rubber cap with tubing and cable support sleeves

Cable gland

Cable gland with catenary suspension

Cap for sensor adapter with lock-gate function



None

Wall holder

Loose flange

None

None



Wetting cup

PG 13.5 with rinsing device

SE 655/SE656/SE 680

3x PG 13.5

With lock-gate function



ARD 75 Immersion Fitting

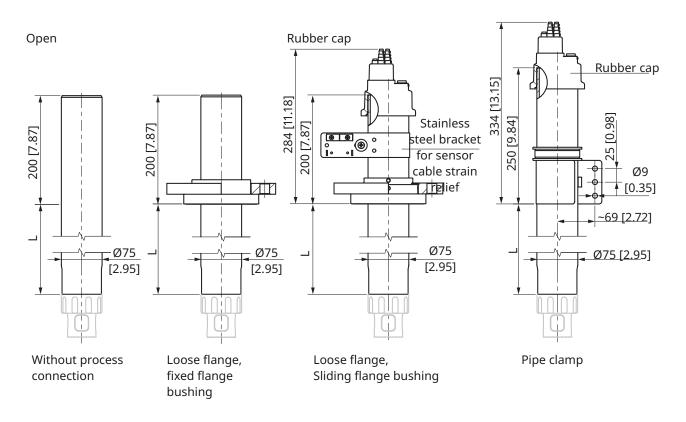
Product Line

Immersion fitting	ARD 75-	N							-		
Fitting material	PP-H	Р									
	PVDF	D									
Sensor adapter	3 x PG 13.5	1									
	3 x PG 13.5; with rinse function	2			A/B/C/D						
	pH sensor, Ø 12 mm, with pressurization										
	SE670/G1	4									
	SE655 (X) / SE656 (X)	5									
	3⁄4" NPT										
	1" NPT	7									
	SE680	8									
	G1 for SE604-MS / SE605-MS	9									
	G1 for SE630-MS	J			A/G						
	1 x PG 13.5; sensor adapter with lock-gate function pneumatic drive; rinsing chamber with gated out	Int L			A/G						
Sensor adapter	3 x PG 13.5	A									_
with wetting cup	3 x PG 13.5; with rinse function				A/B/C/D						
man weeting cap	pH sensor, Ø 12 mm, with pressurization	В			/ V D/ C/ D						
Seal	FKM		Α								
material	EPDM		В								
	FFKM		K								
	FFKM Perlast G75B		L								
Process	Loose flange, PN 10/16, DN80			0 B 3							
connection	Loose flange, PN 10/16, DN100			0 B 4							
	Loose flange, PN 10/16, DN80, sliding flange bush	ning	,	V B 3							
	Loose flange, PN 10/16, DN100, sliding flange bus		,	V B 4							
	Loose flange, ANSI, 150 lbs, 3"			0 D 3							
	Loose flange, ANSI, 150 lbs, 4"			0 D 5							
	Loose flange, ANSI, 150 lbs, 3", sliding flange busl	hing	,	V D 3							
	Loose flange, ANSI, 150 lbs, 4", sliding flange bush	hing		V D 5							
	Wall holder with locking function, stainless steel 1	1.4571	١	W 0 0							
	Catenary suspension			S 0 0	B/D/E/F						
	Catenary suspension, submersible version with in weight	nmersi	on	S T 0	E	0	2	5			
	Pipe clamp, adjustable stop			R 0 0							
	Without process connection			0 0 0							
Ambient side	Open				Α						
	Open, stainless steel bracket for sensor cable strain relief										
	Rubber cap				C						
Rubber cap, stainless steel bracket for sensor cable strain relie				lief	D						
					Е						
	Cable gland, stainless steel bracket for sensor cable strain relief				F G						
	Cap for sensor adapter with lock-gate function; connections for drive and rinse medium; 3x cable gland M20x1.5"										
Base body	25					0	2	5			
nominal length	50					0	5	0			
[cm]	100					1		0			
	150					1	5	0			
	200					2					
	250 Other length (at least 35 are)					2 *	5 *	0			
Chasialyarsian	Other length (at least 25 cm)					*	*	Α.	0	0	_
Special version	None Customer-specific special datasheet								0	0	0
	customer-specific special datastieet										

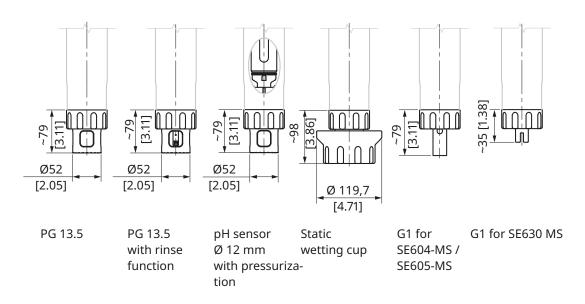
Fittings and Controls

Dimension Drawings

Base Body



Sensor Adapter



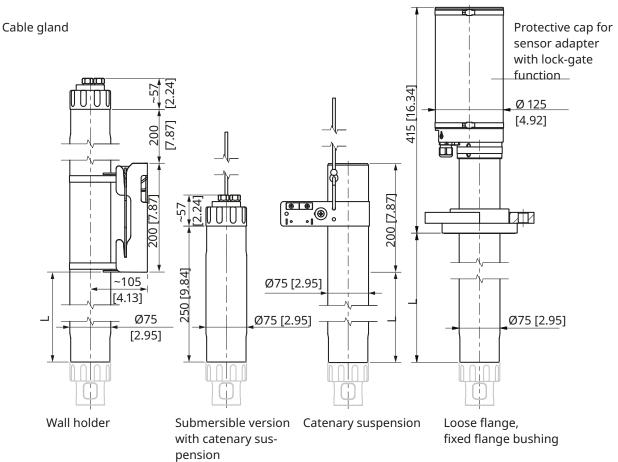
L = base body nominal length, see Product Line, p. 3



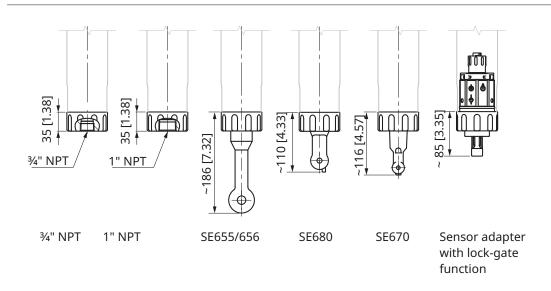
ARD 75 Immersion Fitting

Dimension Drawings

Base Body



Sensor Adapter



All dimensions in mm [inches]

Fittings and Controls

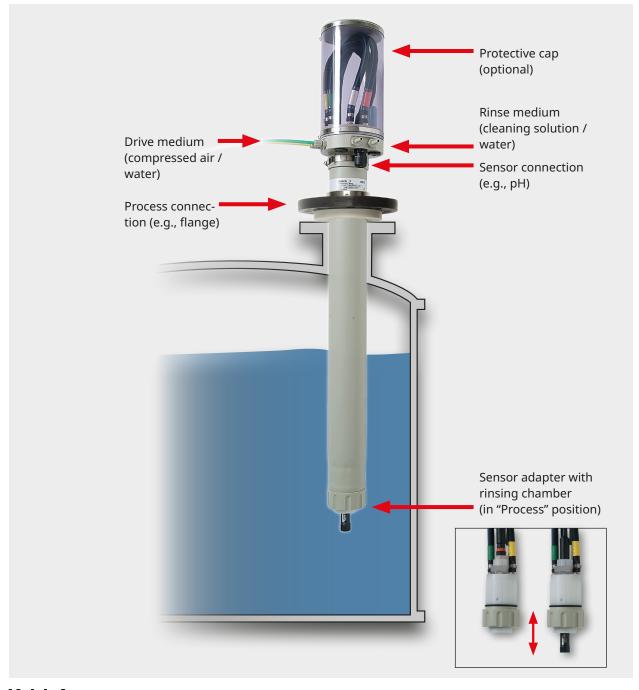
Lock-Gate Function

The ARD 75 immersion fittings also offer the option of automatic sensor cleaning and rinsing with water or a cleaning solution, but also with air purging.

The sensor is moved into and out of the process hydropneumatically, either by compressed air or water pressure. Compressed air does not necessarily need to be installed. The sensor can therefore be cleaned without interrupting the process.

Cleaning is carried out in the sensor adapter's cleaning chamber.

The image below shows an example of an installation in a tank with flange connection.

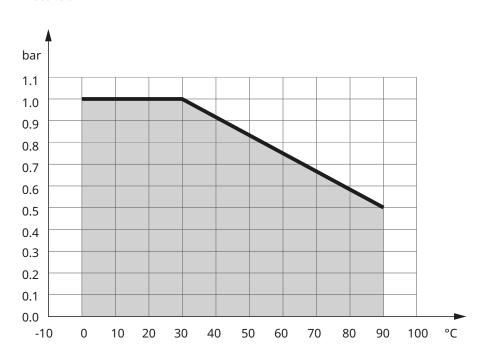




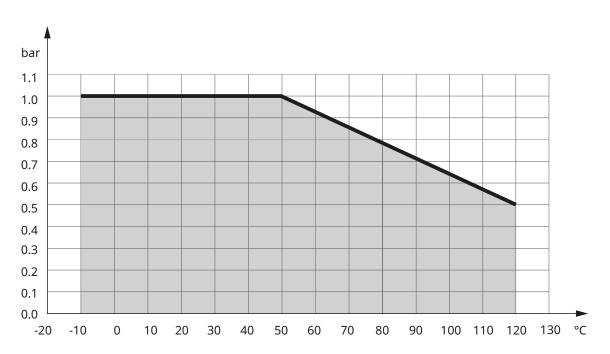
ARD 75 Immersion Fitting

Process Pressure/Temperature Diagram

Material: PP-H



Material: PVDF



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