Immersion Fittings



ARD 75 Immersion Fitting

Modular Fitting with an Extraordinary Range of Functions for up to 3 Sensors

The fitting is used for measuring in tanks, basins and channels. For maximum flexibility, it offers numerous functions that can be freely combined. The special design facilitates sensor replacement. High-quality PP-H or PVDF makes it very sturdy. It can hold up to 3 sensors (PG 13.5) and accepts almost every standard sensor.

Applications

PP-H: Water, wastewater,

industrial water

PVDF: Chemical and petrochemical indus-

> try, power plants, electroplating, ore processing

Catenary suspension Ambient side with cable gland



Sensor adapter

geometry

Facts and Features

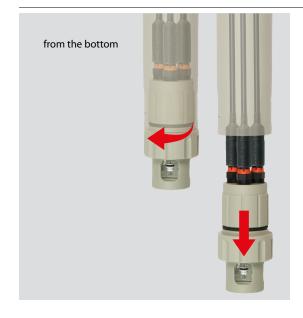
- High variability adaptable to virtually every process
- Safe functioning, easy maintenance thanks to a special and unique design
- Removal of the sensor adapter through the top or from the bottom of the immersion pipe
- Removal of the sensor adapter through the immersion pipe or towards the outside
- No cable twisting during sensor installation
- Sensor adapter: 3 x PG 13.5 / PG 13.5 with pressurization / SE 655, SE 656 (G ¾") / ¾" NPT / 1" NPT, SE
- Rinse function for cleaning the sensors 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 80 - DN 100 or ANSI 3" - 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

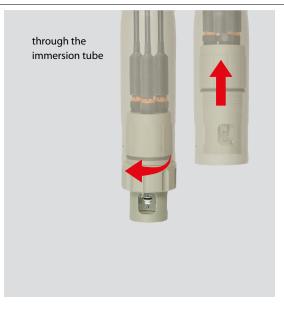


Specifications

Sensors	3 x Ø12 mm, length 120 mm, thread PG 13.5, SE 655, SE 656 / SE 680 / thread $3\!\!\!/\!^{\!\!\!4}$ NPT, 1" NPT							
Diameter	75 mm							
Pressure/Temperature	See diagram							
Process adaptations	Loose flange EN 1092-1	DN80/DN100						
	Loose flange ANSI B 16.5/150 lbs	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						
5 .	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	IP00						
	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.



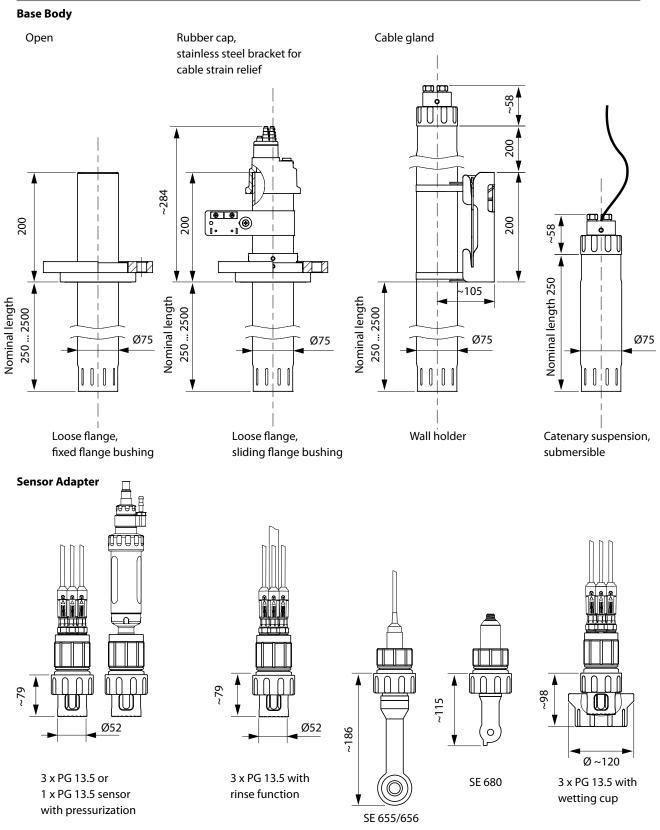
M4Knick >

Product Range

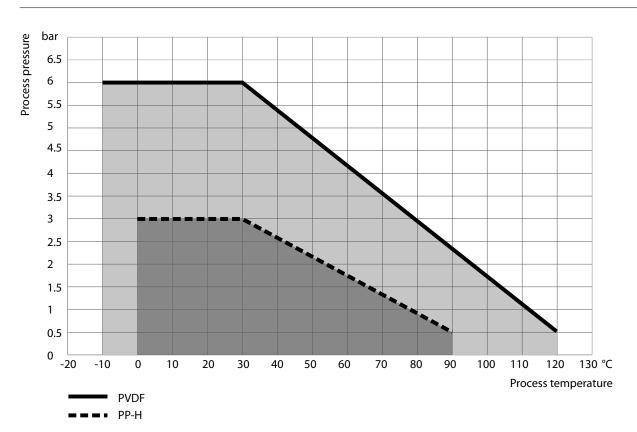
Immersion fitting	ARD 75-	N								-		
Material of fitting	PP-H	Р										
	PVDF	D										
Sensor adapter	3 x PG 13.5		1									
	3 x PG 13.5 with rinse function		2			A/B/C/D						
	pH sensor, Ø 12 mm, pressurized		3									
	SE 655 (X) / SE 656 (X)		5									
	3/4" NPT		6									
	1" NPT		7									
	SE 680		8									
Sensor adapter	3 x PG 13.5		Α									
with wetting cup	3 x PG 13.5 with rinse function		В									
	pH sensor, Ø 12 mm, pressurized		C									
Gasket	FKM			Α								
material	EPDM			В								
	FFKM			K								
	FFKM Perlast G75B			L								
Process	Loose flange, DN80 PN 10/16				0 B 3							
adaptation	Loose flange, DN100 PN 10/16				0 B 4							
	Loose flange, DN80 PN 10, sliding flange bushing				V B 3							
	Loose flange, DN100 PN 10, sliding flange bushing				V B 4							
	Loose flange, ANSI/ASME B16.5 Class 150, 3"				0 D 3							
	Loose flange, ANSI/ASME B16.5 Class 150, 4"				0 D 5							
	Loose flange, ANSI/ASME B16.5 Class 150, 3", sliding flange bushing				V D 3							
	Loose flange, ANSI/ASME B16.5 Class 150, 4", 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	E	0	2	5			
Ambient side	Open					Α						
	Open, stainless steel bracket for cable strain relief					В						
	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					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
	Customer-specific special datasheet									F		
	pp											

Immersion Fittings

Dimension Drawings



Pressure/Temperature Diagram



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