TECHNICAL INFORMATION





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1 Technical data

1.1 Standards

The following standards were applied when manufacturing the immersion fitting:

• Pressure Equipment Directive

1.2 Material properties

Wetted components									
Probe housing									
EXdip	EXdip Stainless steel Plastic Seals								
910	1.4404/316 L		EPDM, FPM						
920		PVDF	EPDM, FPM						
		PP	EPDM, FPM						

1.3 Cleaning port (optional)

Connections	
Immersion fitting	6/4 mm PTFE hose

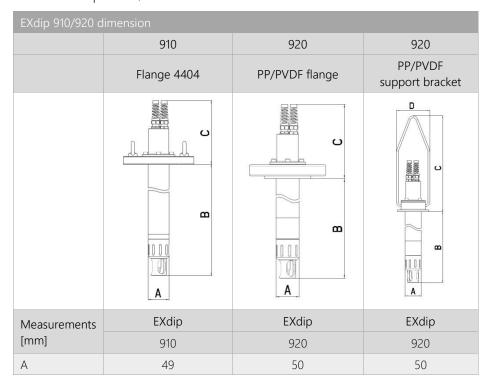
Cleaning pressure	
	1-6 bar

1.4 Sensors

Gel-filled sensor	Gel-filled sensor							
EXdip	I (mm)	d [mm]	PG					
910 / 920	120	12	13.5					



1.5 EXdip 910 / 920 dimensions



В	500-2500	500-2500	500-2500
С	150	161	320
D	-	-	108

1.6 Environmental conditions

Ambient temperature -10...70 °C

Transport and storage temperature -10...80 °C

1.7 EXdip 910 process conditions

Max. permissible pressure PS: 10 bar

Max. permissible temperature TS: 140 °C

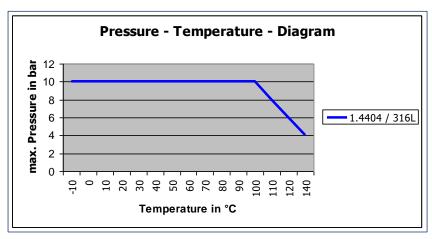


Fig. 1: EXdip 910 pressure-temperature diagram

1.8 EXdip 920 process conditions

Max. permissible pressure PS: 6 bar

Max. permissible temperature TS: 90 °C

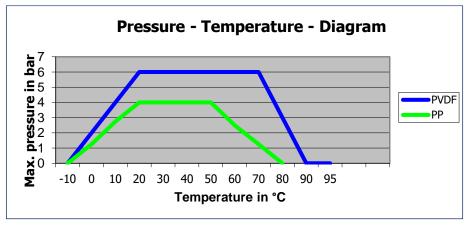


Fig. 2: EXdip 920 pressure-temperature diagram

1.9 Identification plate

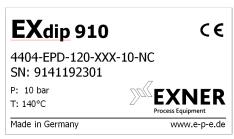
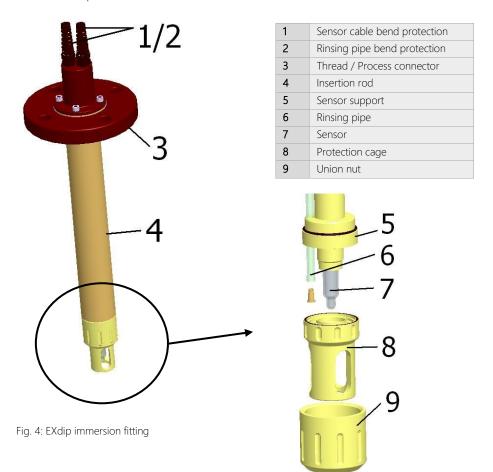


Fig. 3: Identification plate

2 Product description

2.1 EXdip immersion fitting

2.1.1 Components



212 Versions

Immersion fittings are attached to tanks or channels using a flange or support bracket (only plastics). In order to meet the requirements of the versatile process properties, the EXdip immersion fitting is manufactured from stainless steel or plastic. Furthermore, you can choose between different immersion lengths, sealing materials and thread versions for the sensors which are screwed into place.

2.1.3 Rinsing (option)

The rinsing nozzles integrated into the protection cage offer effective mechanical rinsing of the sensor by means of incoming air or rinsing liquid. The rinsing agent is continuously distributed over the racks of the protection cage and, thus, directly contacts the sensor. Due to the construction design, the cleaning efficiency is very good.

2.2 Process integration

Control unit

The automatic rinsing procedure for the EXdip immersion fitting can be triggered by means of a corresponding cleaning contact in the respective transmitter. No additional control unit is required.

Transmitter

The immersion fitting dips a sensor into the process liquid, which transfers its measurement results to a transmitter.

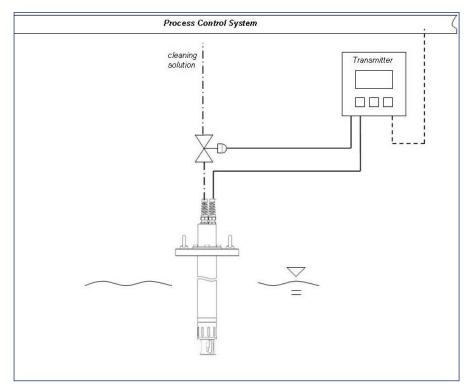


Fig. 5: Process flow

Pressure / Temperature

Dependent on the probe housing used, the process temperature must be between -10°C and 140°C. Dependent on the temperature, the stainless steel immersion fitting can be used up to a pressure of 10 bar and the plastic version up to a pressure of 6 bar.

NOTE

Observe the pressure and temperature diagrams in Chapters 3.7 "EXdip 910 process conditions" and 3.8 "EXdip 920 process conditions"

Installation position

Basically, the immersion fitting can be operated in any position. In order to obtain reliable measurement results, the sensor properties are decisive.

3 Ordering structure

3.1 EXdip 910 immersion fitting

	Code	Probe h	Probe housing, material (wetted parts)					
	4404	Stainless steel 1.4404 / 316 L						
	XXXX	Special version						
		Code	Code Material (wetted parts)					
		EDP	EPDM					
		FPM	FPM					
		XXX	Special version					
			Code	Sensor				
			120	120 mm	PG 13.5	Ø 12mm (gel-filled	
			N34	For sen	sors with	MNPT ¾"	("NC" only)	
			N10	For sen	sors with	MNPT 1"	("NC" only)	
			XXX	Special	version			
			Code Process connection			on		
				D50	DN50 fl	ange		
				A20	ANSI 2"	flange		
				XXX	Special	version		
					Code	Immers	ion depth	
					05	0.5 met	res	
					10	1.0 meti	re	
					15	1.5 met	res	
					20	2.0 metres		
					25	2.5 metres		
			XX		Special	version		
					Code	Rinsing		
				NC Without		Without		
				SC With integrated rinsing		With integrated rinsing		
EXdip 910							Order code	

3.2 EXdip 920 immersion fitting

	Code	Probe h	Probe housing, material (wetted parts)					
	PP	PP						
	PV	PVDF						
	XX	Special	version					
		Code	Materia	l (wetted	parts)			
		EDP	EDP EPDM					
		FPM	FPM FPM					
		XXX	XX Special version					
			Code Sensor					
			120	120 mm	PG 13.5	Ø 12mm	gel-filled	
			N34	For sen	sors with	MNPT ¾"	("NC" only)	
			N10	For sen	sors with	MNPT 1"	("NC" only)	
			XXX	Special	version			
			Code Process connection			on		
				D50	DN50 fl	lange		
				A20	ANSI 2"	flange		
				SUH	With a	support b	racket	
				XXX	Special	version		
					Code	Immers	ion depth	
					05	0.5 met	res	
					10	1.0 met	re	
					15	1.5 met	res	
					20	2.0 met	res	
					25	2.5 met		
					XX	Special	version	
			Code Rinsing			Rinsing		
						NC	Without	
				SC With integrated rinsing				
EXdip 920							Order code	

4 Spare parts and accessories

The immersion fitting serial number must always be quoted for spare parts and accessories orders.

4.1 Sealing kits

EXdip	Spare part	Order code
910	EPDM sealing kit	2-123-40-006
910	FPM sealing kit	2-123-41-006
920	EPDM sealing kit	2-123-40-007
920	FPM sealing kit	2-123-41-007

5 Certificates and compliance

Declaration of conformity Dip holder EXdip type 910 and 920 We declare under our sole responsibility that the product, to which this declaration relates is in conformity with the following standards or the normative documents: > pressure equipment directive 2014/68/EU > AD 2000 technical guidelines This declaration applies to all identical copies of the product that will be produced in accordance with the development-, design- and manufacturing- drawings and descriptions that are part of this declaration. The conformity assessment procedure is according to category I of the PED 2014/68/EU, Module A The possible fluids are classifies according to article 13/1a (group 1) This declaration is given by the manufacturer. Name of company: **Exner Process Equipment GmbH** Address: Carl-Metz-Straße 26 D-76275 Ettlingen Germany Ellinge 7-11.2018 Detler Exner General Manager



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