Technical Information TI 196C/07/en No. 51500081

Immersion assembly for conductivity measuring cells DipFit P CLA 140

Immersion assembly with flange connection for processes with exacting requirements, with bayonet-type measuring cell holder





















Areas of application

- Waste water
- Paper industry
- Chemical industry
- Process industry

Benefits at a glance

- Simple installation and removal of the measuring cell holder due to bayonet lock
- Safe sealing even in media containing solids
- Suitable for use at high pressures and temperatures (up to 10 bar and 150 °C)
- Immersion depth from 500 ... 2500 mm
- Reduced condensation due to an active-breathing Goretex[®] filter
- Flexible process adaptation with various flange types (DIN, ANSI, JIS)

Quality made by Endress+Hauser

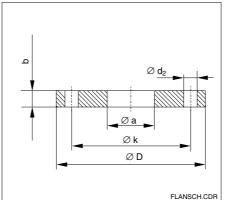




Stainless steel version ENDRESS+HAUSER CLA140-212B210 Rear view with nameplate and Goretex® filter Upper part of assembly; view of flange and assembly head with Pg 13.5 cable gland and Pg 16 plugs

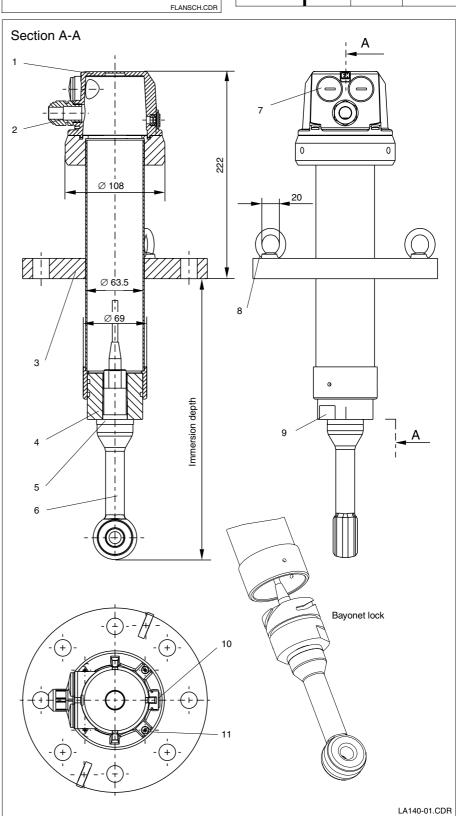
Measuring cell holder with bayonet lock

Stainless steel variant



	Flange		
	DN 80 PN 16	ANSI 3" 150 lbs	JIS 10K 80A
ØD	200	190.5	185
Øk	160	152.4	150
$\emptyset d_2$	18	19	19
b	20	23.8	18
Øa	63.5	63.5	63.5
Screws	M 16	M 16	M 16

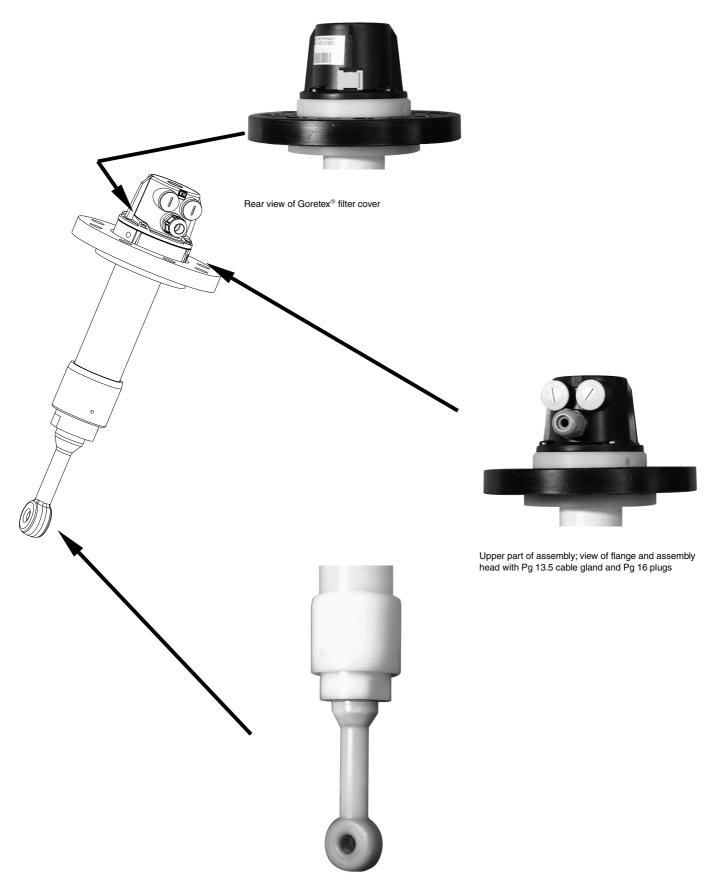
Fixed flange dimensions



Dimensions of stainless steel assembly DipFit P CLA 140

- Assembly head
 Cable gland
 Pg 13.5
 Fixed flange
 Measuring cell holder
 Flat gasket
 (supplied with
 measuring cell)
 Conductivity
 measuring cell CLS 50
 (not included in delivery)
 Pg 16 plug
- 7 Pg 16 plug8 Screw-in lifting eyes9 Flats for size 55
- wrench
- 10 Goretex® filter
- 11 M4 screw

PVDF version



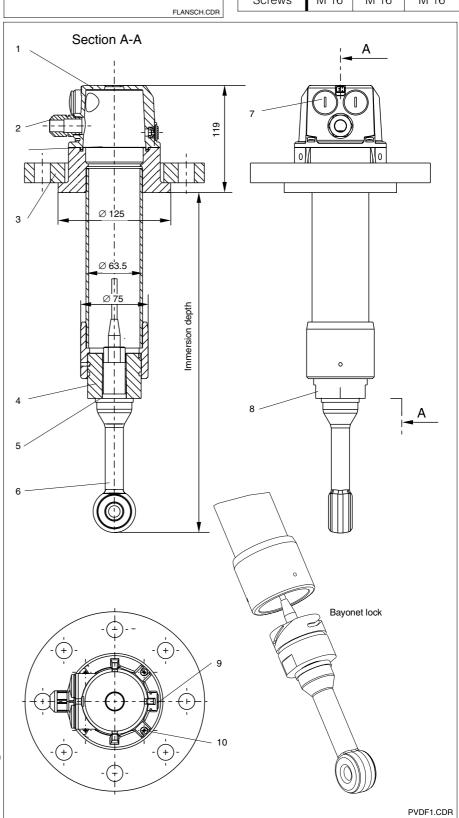
View of measuring cell holder; with conductivity measuring cell CLS 50 built in

PVDF version

 $\varnothing \, d_2$ Øa Øk Ø D

	Flange		
	DN 80 PN 16	ANSI 3" 150 lbs	JIS 10K 80A
ØD	200	200	185
Øk	160	152	150
$\emptyset d_2$	18	19	19
b	22	22	18
Øa	110	110	110
Screws	M 16	M 16	M 16

Loose flange dimensions



Dimensions of PVDF assembly DipFit P CLA 140

- Assembly head Cable gland Pg 13.5

- 3 Loose flange 4 Measuring cell holder 5 Flat gasket (supplied with measuring cell)

 6 Conductivity measuring
- cell CLS 50 (not included in delivery)
- 7 Pg 16 plug 8 Flats for size 55
- wrench
 9 Goretex® filter
- 10 M4 screw

Accessories

• O-ring sets:

- EPDM order no. 51500064
 - Viton order no. 51500065
 - Chemraz order no. 51500066
 - Fluoraz order no. 51500067

• Extension cable CLK 5

Unprepared measuring cable (to be ordered by the metre) Order no. 50085473

Junction box VBM

Junction box for extension of cable connection between measuring cell and measuring instrument; cast aluminium; dimensions: 125 x 80 x 35 (LxWxH); comes with 10 internal high-resistance terminal blocks; protection type IP 65

For non-Ex applications Order no. 50003987

For Ex applications (zone 1) Order no. 50003991

Technical data

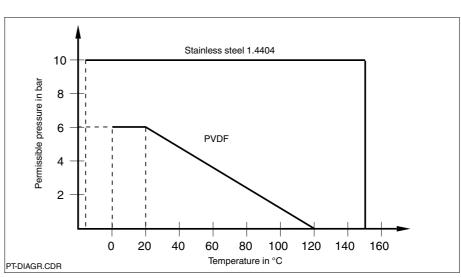
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	General data	Manufacturer	Endress+Hauser			
		Equipment designation	DipFit P CLA 140			
	Installation	Immersion depth	500 2500 mm			
		Number of measuring cell mounting positions	1 x G ¾			
		Installation diameter required	DN 80			
		Cable entry	1 x Pg 13.5; 2 x Pg 16 plugs			
		Protection type	IP 65			
	Mounting	А	without flange			
		В	Flange DN 80 PN 16			
		D	Flange ANSI 3", 150 lbs			
		E	Flange JIS 10K 80A			
	Weight	PVDF (500 mm / 2500 mm)	approx. 2.5 kg / approx. 3.0 kg			
		Stainless steel 1.4404 (500 mm / 2500 mm)	approx. 8.0 kg / approx. 12.0 kg			
	Materials in contact with medium	Immersion tube	PVDF / stainless steel 1.4404			
		O-rings	EPDM / Viton / Chemraz / Fluoraz			
		Measuring cell holder	PVDF / stainless steel 1.4404			
	Materials not in contact with medium	Protection cap	PP-GF 20			
		Loose flange	UP-GF (PVDF version)			
		Screw-in lifting eyes	stainless steel 1.4301			
	Operating data	Operating pressure				
		PVDF version	max. 6 bar (at 20 °C)			
		Stainless steel version 1.4404	max. 10 bar			

Operating temperature

Stainless steel version 1.4404

PVDF version

Pressure / temperature diagram



 $0 \dots +120 \, ^{\circ} \mathrm{C}$

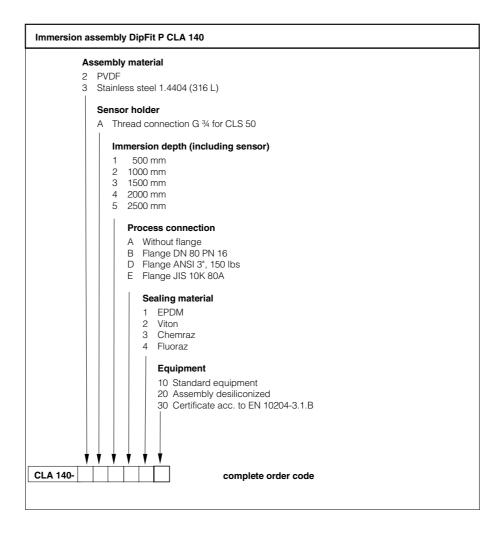
-15 ... +150 °C (EPDM 140 °C)

Note:



The operating limits of the complete system are determined by the operating limits of the components involved (assembly, measuring cell, cable, accessories, etc.)!

How to order



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