# Immersion Assembly for pH and Redox Sensors <br> DipFit P CPA 140 

## Immersion assembly with flange connection for demanding processes. Sensor holder with bayonet lock




## Areas of application

- $\mathrm{pH} /$ /Redox measurements in the chemical industry, for example for
- production of synthetic materials and dyes,
- production of pesticides and fertilisers;
- $\mathrm{pH} /$ Redox measurements in the petrochemical industry, for example for
- separation of oil and waste water,
- treatment of condensates;
- pH measurements in the pharmaceutical and cosmetic industries, for example for
- production of soap,
- production of proteins,
- lipolysis;
- $\mathrm{pH} /$ Redox measurements in power plants and waste incinerating plants, for example for
- monitoring of cooling water,
- scrubbing of exhaust gases;
- $\mathrm{pH} /$ Redox measurements in extractive metallurgy and metal processing


## Benefits at a glance

- Simple installation and removal of the electrode holder due to the bayonet mounting method
- Good sealing, even in media containing solid particles, due to the bayonet mounting method
- Suitable for use at high pressures and temperatures (up to 10 bar and $\max .150^{\circ} \mathrm{C}$ )
- Immersion length from 500 to 2500 mm
- Integrated potential matching pin made of Hastelloy C4 or tantalum
- Reduced condensation due to an active-breathing Goretex ${ }^{\circledR}$ filter
- Three mounting positions for pH , Redox and temperature sensors plus a cleaning head
- Spray and ultrasonic cleaning can be retrofitted easily
- Flexible connection to the process by means of various flanges (DIN, ANSI, JIS)


Stainless steel version

Dimensions of fixed flange

Dimensions of the stainless steel
assembly
DipFit P CPA 140

1 Assembly head
2 Cable gland Pg 13.5
3 Screw-in lifting eyes
4 Fixed flange
5 Electrode holder
6 Shock-protection studs (stainless steel 1.4401)
7 Goretex ${ }^{\circledR}$ filter

|  | Flange |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

Section A-A


## PVDF version



Top view of the electrode holder with one electrode installed

Dimensions of loose flange

Dimensions of the PVDF assembly DipFit P CPA 140

1 Assembly head 2 Cable gland Pg 13.5
3 Loose flange
4 Electrode holder
6 Shock-protection studs
7 Goretex ${ }^{\circledR}$ filter



Accessories

KCI reservoir CPY 7:
1 Valve
2 Dummy plug; reference electrode position
3 Dummy plug; manometer position
4 Filling mark
5 Securing nut for electrolyte vessel
6 Hose coupling


KCI reservoir

- for supplying liquid filled pH electrodes with KCl electrolyte
- maximum effective volume 200 ml
- available with wall-mounting bracket or
- direct mounting on assembly without further securement


KCl reservoir mounted on top of the assembly CPA 140

## Technical data

## General data

## Installation

## Mounting

## Weight

Materials in contact with medium

## Materials not in contact with medium

## Operating data

## Pressure / temperature diagram



## Operating pressure

| PVDF version | Max. 6 bar (at $20^{\circ} \mathrm{C}$ ) |
| :--- | :--- |
| Stainless steel 1.4404 version | Max. 10 bar |

## Operating temperature

| PVDF version | $0 \ldots+120^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Stainless steel 1.4404 version | $-15 \ldots+150^{\circ} \mathrm{C}\left(\right.$ EPDM $\left.140^{\circ} \mathrm{C}\right)$ |

## Sensor holder

| Sensor holder | PVDF / stainless steel 1.4404 |
| :--- | :--- |
| Potential matching pin | Hastelloy C4 / tantalum |
| Shock-protection studs | PVDF / 1.4401 |
| Dummy plugs | PEEK |


| Protective cap | PP-GF 20 |
| :--- | :--- |
| Protective cover for KCI reservoir | Stainless steel 1.4571 |
| Screw-in lifting eyes | Stainless steel 1.4301 |

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## Note

The operating limits of the entire system are determined by the operating limits of the individual components
used (assembly, sensors, cables, accessories, etc.)!

How to order

## Accessories

Immersion assembly DipFit P CPA 140

## Assembly/PAL material

21 PVDF / PAL: Hastelloy C4
22 PVDF / PAL: tantalum
30 Stainless steel 1.4404

## Immersion length

500 mm
21000 mm
$3 \quad 1500 \mathrm{~mm}$
42000 mm
52500 mm
Process connection
A Without flange
B Flange DN 80 PN 16
D Flange ANSI $3^{\prime \prime}$
E Flange JIS 10K 80A
Gasket material
EPDM
Viton
Chemraz
Fluoraz
Features
10 Basic version
30 Test certificate to EN 10204-3.1B

CPA 140-
complete order code

## O-ring sets

- EPDM
- Viton
- Chemraz
- Fluoraz

Order No. 50089296
Order No. 50089297
Order No. 50089298
Order No. 50089299

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