

CPM Process Fittings

PHARMA

Optimized pressure measurement for even the smallest pipe diameters

Absolutely zero dead-leg, flush front installation

For high-precision and hygienic pressure measurement, the pressure diaphragm must be integrated into the process as flush as possible without any dead space. This is a particular challenge for pipes with small diameters. Our CPM installation system offers a process connection that is easy and safe to install and offers unique advantages due to its special design.

- **Zero dead-leg installation with perfect diaphragm position:** Due to the design of the CPM adapter and the extension of the sensor nozzle, the pressure diaphragm sits inline precisely at the height of the media feed-through. This results in an absolutely flow-optimized and hygienic process adaptation. With the design of the CPM, dead spaces such as with Tees or weld-on sockets are excluded.
- **Pressure sensors with standard sizes:** Pressure sensors with standard diaphragm diameters of 22 mm (7/8") or 38 mm (1-1/2") can be used with even the smallest nominal pipe diameters from 1/4". Measurement tolerances such as those for smaller diaphragm diameters are avoided by design.



Available pressure transmitters and gauges

- D3 Differential pressure and level sensor
- L3 Pressure and level sensor
- MPP Modular pressure and level sensor
- PF Modular pressure sensor
- EK Pressure gauge 63mm (autoclavable with CPM)
- EM Pressure gauge 90mm (autoclavable)
- EP Pressure gauge with digital display

Variants of the CPM fitting system

- CPM (Ø 38,1 mm / 7/8"), for nominal widths 1/2" - 4"
- CPM Mini (Ø 22,2 mm / 1-1/2"), for nominal widths 1/4" - 1/2"
- Tri-clamp connection, for nominal widths 1/2" - 4"
- AWF (butt weld), for nominal widths 1/4" - 4"
- Material: Stainless steel 316L (Optional: Hastelloy)
- Sur face: Ra = 0,4 | 0,5 | 0,6 µm (see table)

Zero dead-leg, flush front inline process connection for pipes from 1/4" to 4"

CPM Fitting systems (Details see product information) Materials:
Stainless steel 316L with 3.1 Certificate with batch number | Hastelloy (Option)
O-Ring EPDM USP Class VI (Standard) | Silicon or Viton (Option)

	Type	Pipe size	Connection	Surface Ra Ep=electropolished	Length in mm
	CPM Mini	¼"	AWF (butt weld)	Ra≤0,5 (ep)	101,6
	CPM Mini	½"	AWF (butt weld)	Ra≤0,4 (ep)	101,6
	CPM Mini	½"	Tri-Clamp	Ra≤0,4 (ep)	152,4
	CPM	½"	AWF (butt weld)	Ra≤0,4 (ep)	133,4
	CPM	½"	Tri-Clamp	Ra≤0,4 (ep)	114,3
	CPM	¾"	AWF (butt weld)	Ra≤0,4 (ep)	133,4
	CPM	¾"	Tri-Clamp	Ra≤0,4 (ep)	120,7
	CPM	1"	AWF (butt weld)	Ra≤0,4 (ep)	120,7
	CPM	1"	Tri-Clamp	Ra≤0,4 (ep)	133,4
	CPM	1-½"	AWF (butt weld)	Ra≤0,4 (ep)	139,7
	CPM	1-½"	Tri-Clamp	Ra≤0,4 (ep)	146,1
	CPM	2"	AWF (butt weld)	Ra≤0,4 (ep)	177,8
	CPM	2"	Tri-Clamp	Ra≤0,4 (ep)	171,5
	CPM	2-½"	AWF (butt weld)	Ra≤0,6	184,2
	CPM	2-½"	Tri-Clamp	Ra≤0,6	184,2
	CPM	3"	AWF (butt weld)	Ra≤0,6	196,9
	CPM	3"	Tri-Clamp	Ra≤0,6	196,9
	CPM	4"	AWF (butt weld)	Ra≤0,6	241,3
	CPM	4"	Tri-Clamp	Ra≤0,6	241,3



Available pressure transmitters and gauges (For full details see respective product information)

	Type	Application	Fitting		Type	Applicaton	Fitting
	D3	Differential pressure and level sensor	CPM		HA	Pressure sensor (autoclavable with CPM)	CPM CPM Mini
	L3	Pressure and level sensor	CPM		EK	Pressure gauge 63 mm (autoclavable with CPM)	CPM CPM Mini
	MPP	Modular pressure and level sensor	CPM CPM Mini		EM	Pressure gauge 90 mm (autoclavable)	CPM
	PF	Modular pressure sensor	CPM		EP	Pressure gauge with digital display	CPM CPM Mini

Gauge images partly not with CPM connection