

Process adaptations PHARMadapt EPA

PHARMA

Aseptic clamp connection for pipes with nominal diameters from DN10 | ISO8 | ¾"

Hygienic sensors for narrow spaces

Especially in pipes with a **small nominal diameter**, the hygienic installation of a temperature or point level sensor is often difficult to realize.

The PHARMadapt EPA installation system, specially developed for pharmaceutical applications, makes this **integration simple and safe**: the **flow-optimized pipe tees** are simply and reproducibly **welded in** and the sensors are inserted by means of a clamp connection.

- **Installation with zero dead-leg or gap**: The design of the adapter creates a flow-optimised and easily cleanable process connection. Dead spaces as with weld-on sockets are avoided by design.
- **Two connection sizes, many pipe diameters**: connection with di= 8 mm or 18 mm, pipes from DN10 to DN100
- **No weld seam at all**: optionally completely milled from 1.4539 (904L) solid material for optimum hygiene in case of particularly sensitive products and processes.
- **Easy installation**: The EPA adapter can be welded safely and hygienically using the orbital method. The sensor itself is sealed with an O-ring and fixed with a standard clamp
- **Certified quality**: PHARMadapt EPA complies with current norms, specifications and standards such as 3-A, FDA, USP... (see product information)

Available sensors

- **TFP Temperature sensors** Standard (head 50 mm) or Mini (head 18 mm), with 1xPt100 or 2xPt100
- **NCS point level sensors**





Variants of the PHARMadapt EPA fitting system

- **EPA-8** DN: DIN 10...100 | ISO 8...80 | ASME ¾"..."
Material: Stainless steel 1.4435 (316L)
Surface: Ra≤0,8 µm (Ra≤0,6 | 0,4 µm optional)
- **EPA-18** DN: DIN 25... 100 | ISO 20...80 | ASME 1"..."
Material: Stainless steel 1.4435 (316L)
Surface: Ra≤0,8 µm (Ra≤0,6 | 0,4 µm optional)
- **EPA-18G** DN: ISO 25...50
Material: Stainless steel 1.4539 (904L) (**Milled**)
Surface: Ra≤0,4 µm electropolished
- **Pipe standard**: DIN 11866 | ISO 1127 | ASME BPE





Dead leg free installation for every application, with pipe Tees DN10...100


TFP temperature sensors (Details see respective product information)

	Type	Head Ø in mm	PT100	Transmitter available	Electrical connection	Probe length in mm	Fitting system
	TFP-641	50	✓	✓	M12 plug PG cable gland	10 25 50 100	EPA-8
	TFP-641.2	50	✓ (2x)	-	M12 plug PG cable gland	10 25 50	EPA-8
	TFP-642	50	✓ (2x)	✓ (2x)	M12 plug	10 25 50	EPA-8
	TFP-661	18	✓	✓	M12 plug	10 25 50 100	EPA-8
	TFP-681	18	✓	-	Fixed cable	10 25 50 100	EPA-8
	TFP-841	50	✓	✓	M12 plug PG cable gland	20 50	EPA-18
	TFP-841.2	50	✓ (2x)	-	M12 plug PG cable gland	20 50	EPA-18
	TFP-842	50	✓ (2x)	✓ (2x)	M12 plug	20 50	EPA-18
	TFP-861	18	✓	✓	M12 plug	20 50	EPA-18
	TFP-881	18	✓	-	Fixed cable	20 50	EPA-18

NCS Point level sensors (Details see respective product information)

	Type	Head Ø in mm	Measuring range	Fitting system
	NCS-61P	50	Dk ≥ 20	EPA-8
	NCS-62P	18	Dk ≥ 5	EPA-8
	NCS-81P	50	Dk ≥ 20	EPA-18 EPA-18G
	NCS-82P	18	Dk ≥ 2	EPA-18 EPA-18G

PHARMadapt EPA Fitting systems (Details see product information)

	Type	Pipe standard	Pipe widths DN
	EPA -8 / A	Series A (DIN 11866)	DIN 10 15 25 32 40 50 65 80 100
	EPA -8 / B	Series B (ISO 1127)	ISO 8 10 15 20 25 32 40 50 65 80
	EPA -8 / C	Series C (ASME BPE)	ASME ¾" 1" 1½" 2" 2½" 3" 4"
	EPA -18 / A	Series A (DIN 11866)	DIN 25 32 40 50 65 80 100
	EPA -18 / B	Series B (ISO 1127)	ISO 20 25 32 40 50 65 80
	EPA -18 / C	Series C (ASME BPE)	ASME 1" 1½" 2" 2½" 3" 4"
	EPA -18G	ISO 1127	ISO 15 20 25 32 40 50

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