

# *CleanStar® HydraLine®*

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## Pressure Measurement Systems

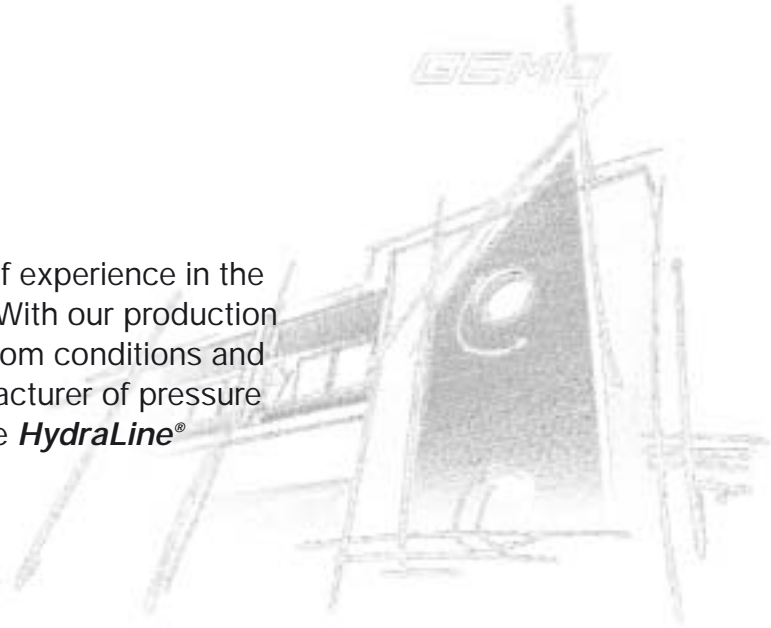


**GEMÜ®** VALVES, ACTUATORS  
AND CONTROL SYSTEMS

## SYNERGY EFFECTS USED AND TRANSLATED INTO *HydraLine*®

### WE CAN ALSO HANDLE PRESSURE

**GEMÜ**® has combined many years of experience in the processing high purity fluoropolymers. With our production of metal-free PFA valves under clean room conditions and with the expertise of the leading manufacturer of pressure measurement systems we introduce the *HydraLine*® product range.



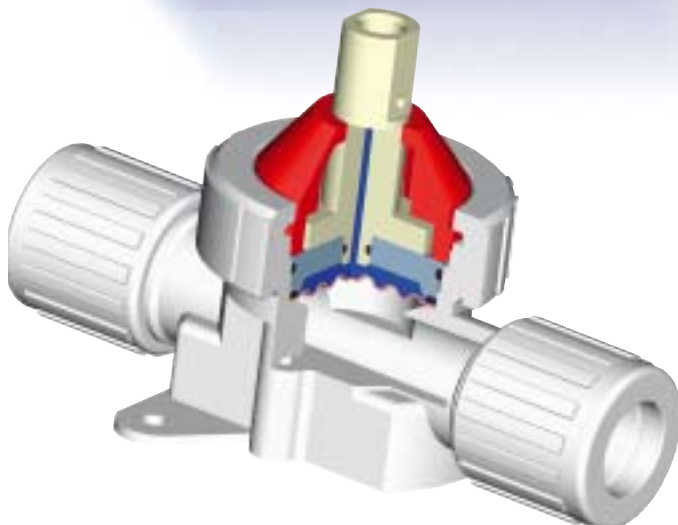
### YOUR APPLICATIONS

- Chemical distribution systems
- Process equipment
- Wet benches
- Cleaning and etching installations

### OUR SOLUTION

A product range of pressure measurement devices with PFA transmitter, specifically designed for ultra high purity chemicals - *HydraLine*®.

A further addition to our *CleanStar*® range:  
*HydraLine*® Pressure measurement systems that deliver what they promise.



3-D model of a *HydraLine*® pressure measurement system

- ▶ Transmitter design prevents mechanical stress on the diaphragm and thus increases long term reliability
- ▶ Vented double diaphragm protects against cross-diffusion of process medium to the transmitter system
- ▶ Double diaphragm technology prevents contamination in case of diaphragm break
- ▶ Leak detection is possible due to double diaphragm system

PRESSURE MEASUREMENT SYSTEMS  
ON A SOLID  
FOUNDATION - **CleanStar®**

A PROVEN TECHNOLOGY



**Hydra-Gauge C30**  
Pressure gauge

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar as well as PSI and kPa ranges
- Teflon® coated gauge housing
- Gauge 360° rotatable
- Switch points for MIN/MAX settings
- In-Line/Dead-End

**YOUR ADVANTAGES AT ONE GLANCE**

- Zero deadleg
- The proven GEMÜ **CleanStar®** technology is the foundation of the transmitter
- All wetted parts made from High Purity PFA
- Working medium hermetically isolated from the gauge by a PFA double diaphragm
- Pressure gauge can be positioned through 360°

OVERVIEW **Hydra-Gauge C30**

Connection	Nominal size DN	C30	
		In-Line	Dead-End
Flare connection	4	on request	1/4"
	6	3/8"	3/8"
	10	1/2"	1/2"
	15	3/4"	on request
	20	1"	on request
NPT female thread	4	on request	1/4"
	6	on request	on request
	10	on request	on request
NPT male thread	4	on request	on request
	6	on request	on request
	10	on request	on request

TO ENSURE THE DETECTION  
OF YOUR MOST IMPORTANT  
VALUES

RELIABLE MEASUREMENT FOR YOUR PROCESS



**Hydra-Sensor C31**  
Pressure transmitter

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar or PSI and kPa ranges
- L-plug NEMA 4 (IP 65) or flying lead NEMA 6 (IP 67) (housing Epoxy coated)
- Transmitter 360° rotatable
- Pluggable LCD possible with L-plug version
- In-Line/Dead-End

**YOUR ADVANTAGES AT ONE GLANCE**

- Zero deadleg
- The proven GEMÜ **CleanStar®** technology is the foundation of the transmitter
- All wetted parts made from High Purity PFA
- Working medium hermetically isolated from the transmitter by a PFA double diaphragm
- Transmitter can be positioned through 360°

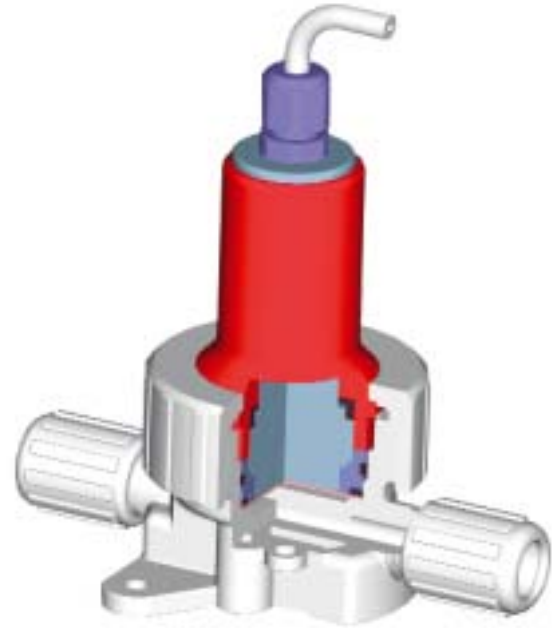
OVERVIEW **Hydra-Sensor C31**

Connection	Nominal size DN	C31	
		In-Line	Dead-End
Flare connection	4	on request	1/4"
	6	3/8"	3/8"
	10	1/2"	1/2"
	15	3/4"	on request
	20	1"	on request
NPT female thread	4	on request	1/4"
	6	on request	on request
	10	on request	on request
NPT male thread	4	on request	on request
	6	on request	on request
	10	on request	on request

## PRESSURE CAN ALSO BE MEASURED DRY *Hydra-Dry*

### THE DRY SOLUTION

- ▶ No transmission fluid
- ▶ Non-metallic ultra pure ceramic sensor
- ▶ Vented double diaphragm isolates the sensing element
- ▶ Patented Hydra-Dry technology
- ▶ All plastic housing



3-D model of a *Hydra-Dry* pressure measurement system

### *Hydra-Dry C32*

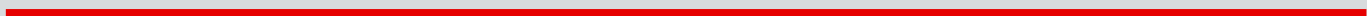
#### Transmitter

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar or PSI and kPa ranges
- No fill fluid, "dry solution"
- High quality ceramic sensor
- Flying lead NEMA 6 (IP 67), FEP jacketed
- Transmitter 4...20 mA, 2-wire
- In-Line/Dead-End



### OVERVIEW *Hydra-Dry C32*

Connection	Nominal size DN	C32	
		In-Line	Dead-End
Flare connection	4	on request	1/4"
	6	3/8"	3/8"
	10	1/2"	1/2"
	15	3/4"	on request
	20	1"	on request
NPT female thread	4	on request	1/4"
	6	on request	on request
	10	on request	on request
NPT male thread	4	on request	on request
	6	on request	on request
	10	on request	on request



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AND CONTROL SYSTEMS

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