DIAPHRAGM SEPARATOR PRESSURE GAUGE 786 Models

WRS

Every Drop. SMART Control

A diaphragm separated pressure gauge (commonly known as a diaphragm seal pressure gauge) is a measurement device that uses a thin, flexible membrane to isolate the internal sensing mechanism from the process medium. Commonly being used for corrosive fluid application.

786 MODELS IDENTIFICATION CODE

Example: 786 P Y O N

Example	Description	Parameters		
786	Model	786 Series diaphragm separated with or without pressure gauge		
P	Wetted End Material	P - PVC F - PVDF	C - SS304 S - SS316L	Y - PP V - CPVC
Y	Top Connection (Gauge End)	Y - Standard Pressure Gauge X - Custom Pressure Gauge		I - Inner Thread (G1/4", G1/2", etc) O - Outer Thread (M14*1.5 etc)
O	Bottom Connection (Fluid End)	F - Flange Q - PVC Socket with Union		I - Inner Thread (G1/4", G1/2", etc) O - Outer Thread (M14*1.5 etc)
N	O-Ring (If using Union)	E - EPDM F - FKM	N - None	

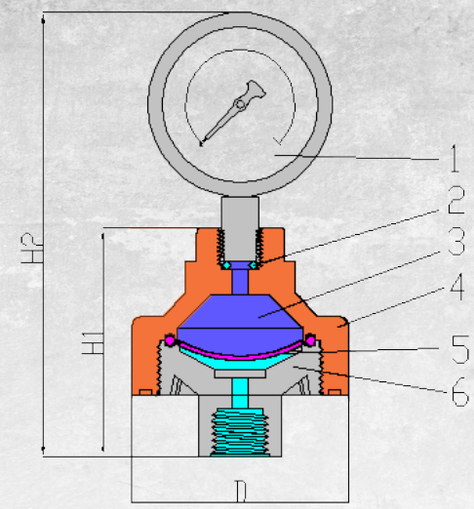
Notes:

1. O-ring selection is only required for connection with union adapter, else select N.
2. Only use plastic material for application 16 Bar and below.
3. Only use stainless steel material for application 25 bar Bar and below.

Advantages:

1. Vibration Resistance: Metering pumps create "pulses" (pressure spikes). A standard gauge needle will vibrate violently, making it hard to read and wearing out the gears. The hydraulic oil inside the diaphragm separator acts as a shock absorber (a snubber), smoothing out the reading so the needle is steady and the gauge lasts longer.
2. Prevents Clogging: Ideal for slurries, viscous fluids, crystallizing fluids, sludge and high-viscosity polymers, ensures continuous reading without maintenance.
3. Stops Corrosion: The internal mechanism is shielded from aggressive acids and alkalis via a PTFE diaphragm.
4. Able to install any type of pressure gauge according to user's application, including pressure transmitter.
5. Complete material compatibility. Available in PVDF, PVC, CPVC, SS304, SS316L to match your metering system and withstand the most aggressive chemicals.

Standard Dimension & Material

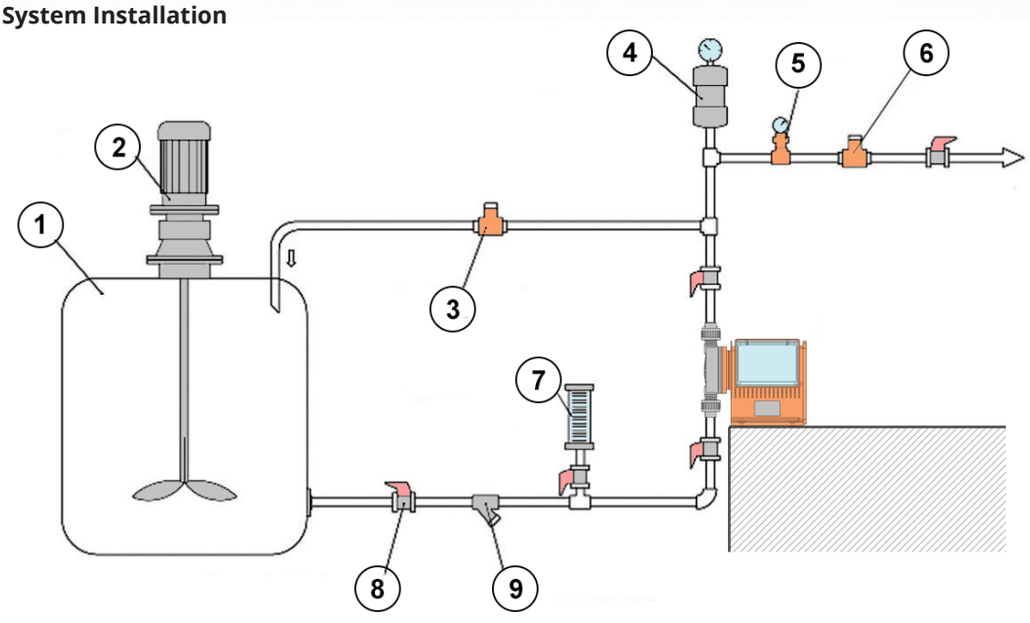


No	Description
1	Pressure Gauge
2	O-Ring
3	Hydraulic Oil
4	Upper Casing (Gauge End)
5	Diaphragm
6	Lower Casing (Wetted End)

Notes:
Hydraulic fill fluid is included only when the diaphragm separator is supplied as a complete assembly with a pressure gauge. Separators purchased individually are supplied dry.

Model	Lower Casing Material (Wetted End)	Upper Casing Material (Gauge End)	Diaphragm Material	D (mm)	H1 (mm)	H2 (mm)
786 P / Y / V	PVC, CPVC, PP	PP	PTFE	79	84	161
786 F	PVDF	PVDF	PTFE	79	84	161
786 C	SS304	SS304	PTFE	74	77	155
786 S	SS316L	SS316L	PTFE	74	77	155

Typical Dosing System Installation



1. Chemical Tank
2. Mixer
3. Pressure Relief Valve
4. Pulsation Dampener
5. **Diaphragm Separated Gauge**
6. Back Pressure Valve
7. Calibration Column
8. Ball Valve
9. Y-Strainer

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