

# Gauge Guard

Type Z700 with Pressure Gauge

Type Z701 without Pressure Gauge



## Description:

The diaphragm-protected gauge guard is used when measuring the pressure of neutral and corrosive media. The manometer is separated from the medium by a PTFE coated diaphragm. The pressure is transmitted using a buffer fluid. The large area of the diaphragm and the low compressibility of the buffer liquid ensure an accurate display.

## Features & Benefits:

- All parts in contact with the medium are made of highly resistant plastics.
- The manometer does not come into contact with the medium.
- The diaphragm gauge guard is low-maintenance and can be installed in any position.
- The large area of the diaphragm ensures accuracy.



**ASAHI/AMERICA**

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**Technical Data:** Z 700

**Available Materials:** Housing: PVC-U, PP, PVDF  
Diaphragm: EPDM, EPDM/PTFE coated

**Allowable Working Temperature:** PVC: -0 to +60° C  
PP: -10 to +80° C  
PVDF: -20 to +100° C

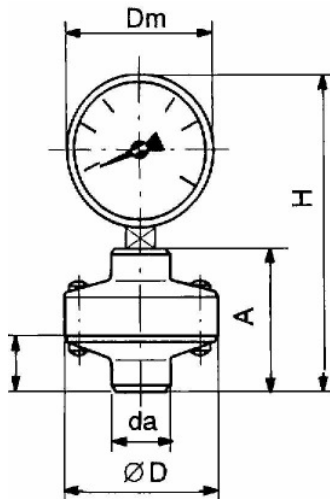
**Allowable Working Pressure for Connection:** PN 10 at 20° C

**Manometer Connections:** R ¼"  
R ½"

**Connection Spigots:** da 25 with manometer connection Rp ¼"  
da 32 with manometer connection Rp ½"  
selectable with NPT thread

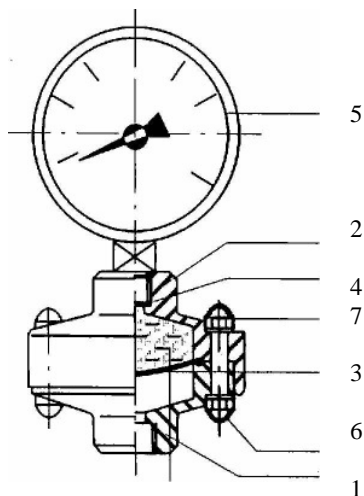
**Manometer Ranges:** Standard 0-10 bar; with Rp ¼" Ø 63 mm;  
with R ½" Ø 100 mm; others on request

**Accuracy:** Standard class 2.5



Dimensions

Connection	da	Dm	H	h	A	ØD	Weight
R 1/4"	25	63	129	15	71	72	0.30
R 1/2"	32	100	210	22	90	100	0.60



Number	Description	Units
1	Flange	1
2	Upper part	1
3*	Diaphragm	
4	Manometerseal	1
5	Manometer	1
6	Hex socket-head cap	12/16
7	Hex socket-head screw with washer nut	6/8

\* Parts are subject to wear; recommend spare parts



**Filling with buffer fluid :**

1. Fill the upper part (2) of the gauge guard Z700/Z701, preferably with glysanthin (anti freeze solution) or distilled water, up to the bottom of the thread.
2. Gently press on the diaphragm from below with a blunt object until no more bubbles come out.
3. Screw in the manometer. If the manometer already displays a pressure reading, some of the buffer fluid must be removed until there is no longer any display.

**Installation advice:**

We recommend installing the gauge guard with a screw fastening and shut off device. That ensures that the manometer can be moved into the required position for reading even at a later stage, and can easily be replaced in the event of a fault.

**Order Numbers**

<b>Z 700 with Manometer 0-10 bar</b>				<b>Z 701 without Manometer</b>			
PVC	d	Diaphragm PTFE		PVC	d	Diaphragm PTFE	
	25	1/4"	17.000.330		25	1/4"	17.000.329
	32	1/2"	17.000.341		32	1/2"	17.000.343
PP	d	Diaphragm PTFE		PP	d	Diaphragm PTFE	
	25	1/4"	17.000.335		25	1/4"	17.000.333
	32	1/2"	17.000.346		32	1/2"	17.000.344
PVDF	d	Diaphragm PTFE		PVDF	d	Membrane PTFE	
	25	1/4"	17.000.338		25	1/4"	17.000.336
	32	1/2"	17.000.347		32	1/2"	17.000.348

**Manometer – Measuring ranges :**

- O - 0.6 bar
- O - 1 bar
- O - 1.6 bar
- O - 2.5 bar
- O - 4 bar
- O - 6 bar
- O - 10 bar