

**OHMART** **VEGA**



# Bypass 72

## Bridle Chamber

Level Measuring System with  
VEGAFLEX Level Sensor

QUICK REFERENCE GUIDE

## Revision History

<b>Version of manual</b>	<b>Description</b>	<b>Date</b>
1.0	Initial release	050528

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ISO 9001 approval by Lloyd's Register Quality Assurance Limited, to these Quality Management System Standards: ISO 9001:2000, ANSI/ASQC Q9001-2000, Approval Certificate No. 107563.

# NOTES

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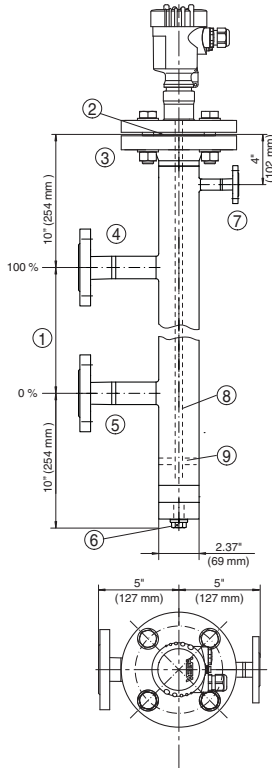
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# NOTES

## Product Description

The Bypass 72 which includes a bridle chamber and a VEGAFLEX level sensor is a complete level measuring system ideally suited anywhere displacer, magnetostrictive, or any other technology that uses an external chamber is used.

Such technologies are normally installations in which measurement inside the vessel is not possible because of the interior structures of the vessel, such as coils, trays, and baffles.



### Bypass 72 Parts

- 1 Dimensions center to center 12" to 120"
- 2 Seal – measuring instrument flange
- 3 Measuring instrument flange
- 4 Connection flange, top
- 5 Connection flange, bottom
- 6 Drain with plug
- 7 Ventilation connection, optional
- 8 Electrode rod
- 9 Spacer

# NOTES

## Mounting

Make certain you follow these mounting instructions and the operating instructions in the VEGAFLEX level sensor manual and the assembly drawing included with your Bypass 72.



Make sure you mount the VEGAFLEX to the bridle.

## Gaskets

You must provide the gaskets for the connection flanges, the measuring instrument flange, and the optional ventilation fitting.

The factory provides the ring joint (gasket) if measuring instrument flange requires it. Before you use the Bypass 72, check if this gasket is resistant against the process material, the process pressure, and the process temperature.

Make sure you do not exceed the maximum permissible pressure of the sensor as specified in the **Technical Data** section of the operating instructions manual or on the type label of the sensor.

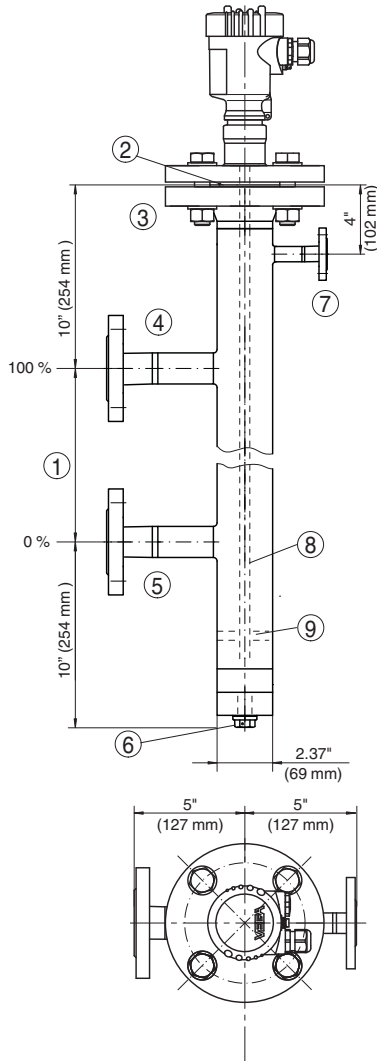
# NOTES

## Technical Data

Make certain you follow the mounting instructions and the operating instructions in the manual of the VEGAFLEX level sensor you have chosen to use with your Bypass 72.

Materials	Description	Model Code Version
Bypass tube	316L Stainless Steel (1.4404 or 1.4435)	
Spacer ≤ 482 °F/ 250 °C	PEEK	
Spacer >482 °F/ 250°C (optional)	302 Stainless Steel (1.4310)	
Gasket - Measuring instrument flange (standard)	Customer Supplied	A, B, C, D
Gasket - Measuring instrument flange (higher pressure stages)	Customer Supplied	F
Gasket - Measuring instrument flange (high temperature/high pressure)	RTJ seal rings	G, H, I, J, K, L, M
Diameter	2" pipe (2.375" O.D.)	
Wall thickness - Schedule 40 - Schedule 80 - Schedule 160	0.154" 0.218" 0.344"	A, B C, D, K F, G, H, I, J, L, M
Measuring instrument flange	2" 300# RF ANSI B16.5 2" 1500# RTJ ANSI B16.5	A, B, C, D, F G, H, I, J, K, L, M
Process Temperature	See the table on the following page	
Process Pressure	See the table on the following page	
Drain Connection	½" NPT ¾" NPT G½ A	
Vent Connection	½" NPT ¾" NPT Flange ½" 1500# RF, ANSI B16.5	

<b>Model Code Version</b>	<b>Design Temperature</b>	<b>Design Pressure</b>
A	302 °F/ 150 °C	176 PSI / 12 bar
B	302 °F/ 150 °C	458 PSI / 31 bar
C	482 °F/ 250 °C	154 PSI / 10.5 bar
D	482 °F/ 250 °C	397 PSI / 27 bar
F	752 °F/ 400 °C	96 PSI / 6.5 bar
G	752 °F/ 400 °C	353 PSI / 24 bar
H	302 °F/ 150 °C	1882 PSI / 128 bar
I	482 °F/ 250 °C	1632 PSI / 111 bar
J	752 °F/ 400 °C	1397 PSI / 95 bar
K	302 °F/ 150 °C	911 PSI / 62 bar
L	482 °F/ 250 °C	794 PSI / 54 bar
M	752 °F/ 400 °C	706 PSI / 48 bar



**Bypass 72 Dimensions**

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# NOTES

## Customer Service

### U.S., Canada, and Worldwide

Within the United States, Ohmart/VEGA has Field Service Engineers available for onsite service, emergency services, or equipment start up.

<b>Contact Information</b>	<b>Telephone Number/E-mail Address</b>
Monday through Friday 8:00&nbsp;A.M. - 5:00 P.M. EST (Eastern Standard Time)	1-513-272-0131
Emergencies: Follow the voice mail instructions	1-513-272-0131
International (Worldwide)	1-513-272-0131
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# NOTES



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