

Type 2382

Horizontally-Mounted:
Trimod Besta Accessories

Up to 752°F
Temperature

Carbon steel
Material



ABOUT TYPES 2382, 2383, 28XX Trimod Besta Accessories

The simplest method of installing any level switch with the standard square flange is to use our standard weld-on counter flange which is available in stainless steel and carbon steel. The test actuator allows a periodic manual function check of the level switch in operating status. Test actuators can be used with all the switches which have square flanges. The use of float chambers allow functional checks and servicing to be carried out without interrupting operation, provided that isolation and drain valves are included in the process connections.

For more information about our complete line of horizontally-mounted liquid level switches, visit our web site at:
<http://www.granzow.com/liquidlevelcontrols/horizontal/>

Accessories

Counterflanges

The simplest method of installing any Trimod Besta level switch of the Standard Range is to use our standard weld-on counterflanges. Table 31 shows the two different lengths of counterflanges and stud extensions available in C22.8 carbon steel or 1.4401 stainless steel. Please note that with the float modules in Table 23 on page 34, only the short counterflanges (v = 38 mm) can be used.

The standard counterflange is shaped to allow the following three options of welding.

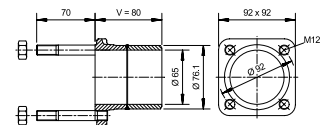
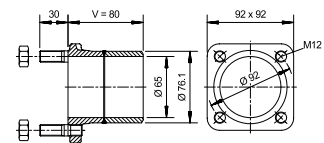
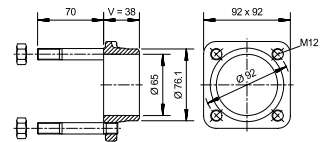
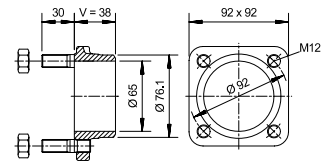
- Butt welding on the wall of the tank with a hole diameter in the tank of 65 mm. The welding seam is at the front face of the flange end.
- Welding in a clearance hole of 76.1 mm in the wall of the tank. The welding seam is around the machined cylindrical surface of the flange end.
- Butt welding on to a 75 x 5 mm tube at the front face. In this case (ideal for thick tank insulation), lengths up to V max. = 150 mm are possible. However, to assure free float movement, a rod extension G1 of at least 100 mm is required.

Temperature range: Material C22.8: -10 to +400°C
 Material 1.4401: -196 to +300°C



Table 31

Type	Specification	Flange material	Stud material
2829.1	Counterflange	C22.8	5.8
2831.3		1.4401	A2
2829.2	Counterflange with extended studs to accommodate a test actuator unit	C22.8	5.8
2831.4		1.4401	A2
2829.1 V80	Extended counterflange (e.g. thick tank insulation)	C22.8	5.8
2831.3 V80		1.4401	A2
2829.2 V80	Extended counterflange with extended studs to accommodate a test actuator unit (e.g. for thick flange insulation)	C22.8	5.8
2831.4 V80		1.4401	A2



Test actuators

The test actuator allows a periodic manual function check of the level switch in operating status. The following functions can be tested (see also Table 33):

- Function of the switching element (microswitch, proximity switch, pneumatic valve).
- Movement of the float

Test actuators can be used with all horizontal mounted Trimod Besta level switches of the Standard Range (square flange). Like the level switches, they are designed for operating pressures of -1 to 25 bar. The test actuator is mounted between the flange of the level switch and the counterflange on the tank, or float chamber. For combination with bellows please inquire with factory.



Table 32

Type	Specifications	Material	Gasket material	Temperature range in °C	Pressure range in bar
2382	Test actuator	CrNiMo	FPM	0 to +150	-1 to 25
2383	Test actuator	CrNiMo	EPDM	-30 to +150	-1 to 25

Test actuators are supplied with flat gaskets.

Table 33

Applications	Use as high (HA) or low (LA) alarm	Mounting position
Checking switch function and float movement under depressurized operating conditions (OP = 1 bar absolute)	HA	
	LA	
Checking switch function and float movement under operating conditions (OP = 0 to 25 bar)	HA	
	LA	
Checking switch function and float movement under depressurized operating conditions with the level below the float (OP = 1 bar absolute)	HA	
	LA	

