

## Accessories for ZFV series

### Pressure mediators attached to pressure switches

A separating diaphragm or a pressure mediator is necessary if aggressive, viscous or crystallizing media must be kept away from the actual pressure sensor. A pressure mediator is also indispensable to avoid cavities if easy cleaning of the supply lines is important. Special "milk pipe unions" according to DIN 11 851 are customary for pressure monitoring in the foodstuffs industry. Pressure mediators and evaluating devices

(pressure switches, pressure transmitters, pressure gauges) from a self-contained unit. The transmission fluid (filling medium) transmits the medium pressure from the separating membrane to the measuring element. The filling medium M 20 is food-safe and, being able to withstand temperatures from  $-40$  to  $+300^{\circ}\text{C}$ , is also suitable for industrial applications.

#### Technical data

**Material** 1.4571.

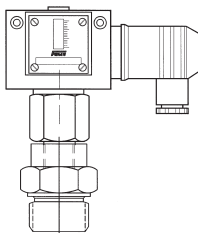
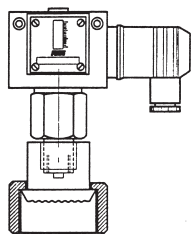
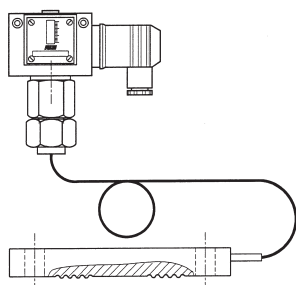
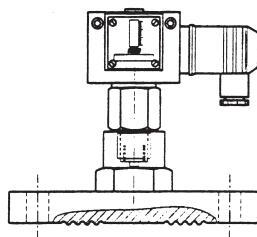
#### Realization

Fully assembled, evacuated, filled and adjusted.

**Filling medium** M 20, food-safe.

#### Max. permissible pressure

40 bar (applies to separating diaphragm only. The max. permissible pressure of the pressure switch or pressure transmitter must be observed).



#### Product Summary

DN	Switching point from	Temperature range*	Type
<b>Flanged pressure mediators</b> made of stainless steel 1.4571, membrane flush to the front, flange to DIN 2527			
50	0.3 bar	$-40 \dots 120^{\circ}\text{C}$	ZFV 184-50
80	0.15 bar		ZFV 184-80
with Teflon coating			
50	0.3 bar	$-40 \dots 120^{\circ}\text{C}$	ZFV 184-50PTFE
80	0.15 bar	$-40 \dots 120^{\circ}\text{C}$	ZFV 184-80PTFE
<b>Flanged pressure mediators</b> with 1 m pipeline, flange to DIN 2527			
50	0.3 bar	$-30 \dots 300^{\circ}\text{C}$	ZFV 185-50
80	0.15 bar		ZFV 185-80
with Teflon coating			
50	0.3 bar	$-30 \dots 300^{\circ}\text{C}$	ZFV 185-50PTFE
80	0.15 bar	$-30 \dots 300^{\circ}\text{C}$	ZFV 185-80PTFE

Pipeline up to a maximum of 10 m on request

#### Technical information

Combinations with pressure mediators are filled and calibrated at  $20^{\circ}\text{C}$ . Very different operating temperatures can adversely affect the measurement result, particularly with long capillary pipes and large flange diameters. Furthermore, all capillary pressure mediators must be filled and adjusted at the same height as the evaluation unit. If the measuring points and the evaluation units are at different heights within the system, any pressure difference must be taken into account when setting the switching points. This effect is particularly noticeable when monitoring small system pressures.

DN	Switching point from	Temperature range*	Type
<b>Pressure mediators</b> for the foodstuffs industry with milk pipe connection according to DIN 11851			
50	0.4 bar	$-30 \dots 120^{\circ}\text{C}$	ZFV 162-50
with Teflon coating			
50	0.4 bar	$-30 \dots 120^{\circ}\text{C}$	ZFV 162-50PTFE
<b>Screw-in pressure mediators</b> flush to the front			
G 1	0.6 bar	$-30 \dots 120^{\circ}\text{C}$	ZFV 749

\* Please note that the temperature at the pressure switch must not exceed  $60^{\circ}\text{C}$  for long periods.

#### Note:

In future, all pressure switches purchased together with ZFV must be ordered in the following way:  
e.g. DCM 6-S + ZF 1970  
+ ZFV 184-50