

# PRESSURE TRANSMITTER WITH INTERNAL DIAPHRAGM



**Pressure ranges 0...1 up to 0...1000 bar**  
**Accuracy 0,5% FS**

Pressure transmitter in a robust, compact design with high accuracy and long service life.  
Sensor element: welded stainless steel cell



## Areas of application

Industry and mechanical engineering  
Plant construction and automation technology  
Environmental engineering  
Medical technology  
Marine, railway, motorsports

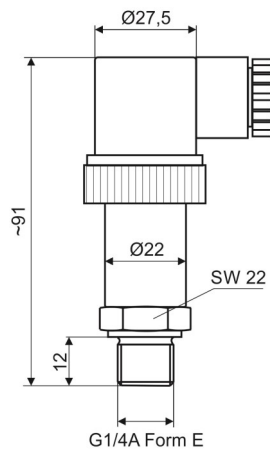
Type	3340	3345	Options
Measuring ranges	Relative pressure 0...1 bar up to 0...1000 bar		Mano-vacuum and vacuum ranges
Overpressure (depending on the upper measuring range limit)	<500 bar: $\geq 2 \times$ nominal pressure 500 up to 700 bar: $\geq 1,5 \times$ nominal pressure >700 bar $\geq 1,2 \times$ nominal pressure		others on request
Burst pressure (depending on the upper measuring range limit)	<500 bar: $\geq 3 \times$ nominal pressure 500 up to 700 bar: $\geq 2,5 \times$ nominal pressure >700 bar $\geq 1,2 \times$ nominal pressure		
Output signal	4...20 mA (2-wire)	0...10 V (3-wire)	others on request
Operating voltage	9...32 V <sub>DC</sub>	12...32 V <sub>DC</sub>	
Accuracy	$\pm 0,50$ % FS (including non-linearity, hysteresis, repeatability, zero-point- and final value deviation)		$\pm 0,25$ % FS
Non-linearity	0,15 %		
Stability / year	0,15 %		
Response time (10...90%)	1 ms...2 ms		
Dielectric strength	30...500 V <sub>DC</sub>		710 V <sub>DC</sub>
Temperature range	Medium and storage: -40°C...125°C, ambient: -40°C...105°C		
Mean TK offset	$\leq 0,15/10K$		
Mean TK span	$\leq 0,15/10K$		
Total error	-40°C 2,00 %, 105°C 2,00 %		
Material	Case and wetted parts: stainless steel		Titanium
Pressure connection	G1/4		G1/2, M20x1,5
Shock resistance	1000 g acc. to IEC 68-2-32		
Vibration resistance	20 g acc. to IEC 68-2-6		
Weight	80 g ...120 g		
CE mark	CE-Directive 2014/30/EU		
Protection	IP 67		...IP69K
Connector systems	MVS/A nach DIN EN 175301-803 A MVS/C nach DIN EN 175301-803 E, M12		
Option	ATEX-approval Zone 0 and Zone 1		

Type 3340, 3345

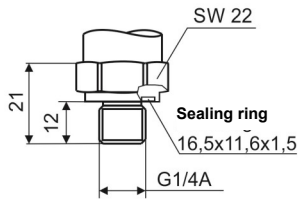
## Dimensional drawings

Dimensions in mm

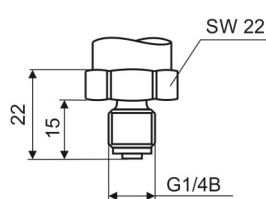
### Type 3340 with MVS/A plug



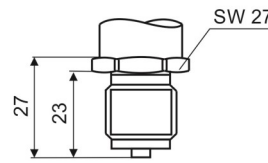
## Pressure connections



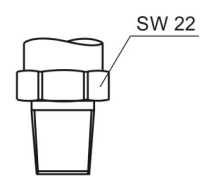
G 1/4 A Form E



G 1/4 B



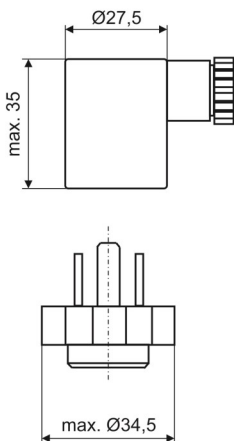
G 1/2 B



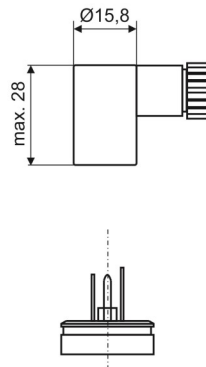
1/4\"NPT

## Connector systems

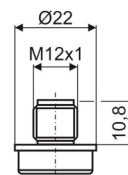
MVS/A DIN EN 175301-803



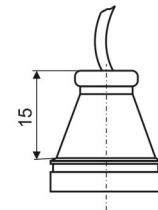
MVS/C DIN EN 175301-803



Flange plug M12x1

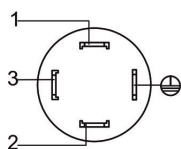


Cable connection



## Electrical connections

MVS/A DIN EN 175301-803



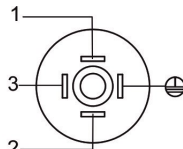
### 2-wire

1: UB+  
2: nc  
3: out  
nc

### 3-wire

1: UB+  
2: UB-  
3: out  
nc

MVS/C DIN EN 175301-503



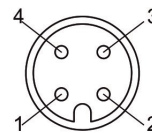
### 2-wire

1: UB+  
2: nc  
3: out  
nc

### 3-wire

1: UB+  
2: UB-  
3: out  
nc

Flange plug M12x1



### 2-wire

1: UB+  
2: nc  
3: out  
4: nc

### 3-wire

1: UB+  
2: nc  
3: UB-  
4: out

Cable connection

### 2-wire

rt: UB+  
sw: out  
ws: nc

### 3-wire

rt: UB+  
sw: UB-  
ws: out