# Low pressure gauge (Capsule system)

Model: P422 series

Spec. sheet no. PD04-03









#### Service intended

P422 series are designed to measure low, vacuum or compound pressure. These models have a 316L SS measuring element which consists of two formed diaphragms and diaphragms are welded together.

# Nominal diameter

63. 80. 100 and 160 mm

#### **Accuracy**

±1.0 % of full scale ±1.6 % of full scale

# Scale range (kPa, mbar)

-35 ~ 0 to -2 ~ 0 kPa -15 ~ 15 to -0.5 ~ 0.5 kPa 0 ~1 to 0 ~ 2 kPa

# Working pressure

Steady: 75 % of full scale

Over range protection: 130% of full scale

# Working temperature

Ambient : -20 ~ 65 °C

-40 ~ 65 °C (With silicone filling)

Fluid: Max. 100 °C

# Degree of protection

EN60529/IEC529/IP65 (100 mm)

# Temperature effect

Accuracy at temperature above and below the reference temperature (20 °C) will be effected by approximately ±0.6 % per 10 ℃ of full scale



# Standard features

#### Pressure connection

Stainless steel (316SS)

# **Element**

Stainless steel (316L SS) Capsule system: Up to 35 kPa

# Case

Stainless steel (304SS)

#### Cover

Stainless steel (304SS)

# Window

Safety glass

#### Movement

Stainless steel

#### Dial

White aluminium with black graduations

# **Pointer**

Black painted aluminium alloy

#### Process connection

1/4", 3/8", 1/2" PT, NPT and PF

## Certificates

ATEX Ex II GD c IIc TX

#### Option

Silicone filling



10. Option

None

Accessories

Silicone filling

0

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## 1. Base model

P422 Low pressure gauge (Capsule system)

# 2. Nominal diameter (mm)

- **2** 63
- 3 80
- **4** 100
- **6** 160

# 3. Type of mounting

- A Bottom connection, direct, not available with diameter 63 mm
- **B** Bottom connection, surface, case mounting plate, not available with diameter 63 mm
- **F** Center back connection, direct, only available with diameter 63 mm

# 4. Accuracy

- 3 ±1.0 % of full scale, not available with diameter 63 and 80 mm
- 4 ±1.6 % of full scale

#### 5. Process connection

- B 1/8"
- C 1/4"
- D 3/8", not available with diameter 63 mm
- E ½", not available with diameter 63 and 80 mm

# 6. Connection type

- **B** PF
- C PT
- **D** NPT
- **Z** Other

#### 7. Unit

- **J** kPa
- **S** mbar

#### 8. Range

XXX Refer to pressure unit and range table

#### 9. Pressure connection material and dial color

- 3 316SS and 2 colors
- 4 316L SS and 2 colors
- 7 316SS and 3 colors

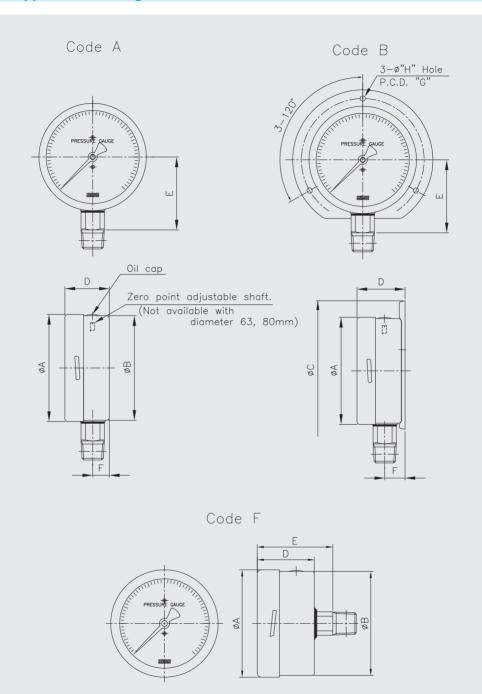
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- 8 316L SS and 3 colors
- Z Monel

# P422

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# P422: Type of mounting



							0	Dimensions (mm)				
Dial size	Available code	Α	В	С	D±2	E±2	F±1	G	Н			
63	F	64	62		34	45						
80	A	81.2	78.5		44.5	50.5	12					
	В	81.2		108	48	50.5	15.5	95	5			
100	A	101.3	99		50	73.5	16					
	В	101.3		133	54.4	73.5	19.4	116	5			
160	A	160.6	159		52.5	105.5	15.8					
	В	160.6		196	56	105.5	19.4	178	5.8			

# Pressure unit and range table

Banana and and	Unit ar	nd code	Nominal diameter				
Range and code	S : mbar	J : kPa	63 mm	80 mm	100 mm	160 mm	
503	-350 ~ 0	-35 ~ 0	0	0	0	0	
400	-300 ~ 0	-30 ~ 0	0	0	0	0	
502	-250 ~ 0	-25 ~ 0	0	0	0	0	
401	-200 ~ 0	-20 ~ 0	0	0	0	0	
402	-150 ~ 0	-15 ~ 0	0	0	0	0	
403	-100 ~ 0	-10 ~ 0	0	0	0	0	
405	-50 ~ 0	-5 ~ 0	0	0	0	0	
406	-40 ~ 0	-4 ~ 0	0	0	0	0	
407	-30 ~ 0	-3 ~ 0	0	0	0	0	
408	-20 ~ 0	-2 ~ 0	0	0	0	0	
472	-150 ~ 150	-15 ~ 15	0	0	0	0	
470	-100 ~ 100	-10 ~ 10	0	0	0	0	
413	-50 ~ 50	-5 ~ 5	0	0	0	0	
415	-40 ~ 40	-4 ~ 4	0	0	0	0	
417	-30 ~ 30	-3 ~ 3	0	0	0	0	
418	-25 ~ 25	-2.5 ~ 2.5	0	0	0	0	
419	-20 ~ 20	-2 ~ 2	0	0	0	0	
421	-10 ~ 10	-1 ~ 1	0	0	0	0	
460	0 ~ 20	0 ~ 2	0	0	0	0	
462	0 ~ 30	0 ~ 3	0	0	0	0	
464	0 ~ 40	0 ~ 4	0	0	0	0	
465	0 ~ 50	0 ~ 5	0	0	0	0	
469	0 ~ 100	0 ~ 10	0	0	0	0	
515	0 ~ 150	0 ~ 15	0	0	0	0	
437	0 ~ 200	0 ~ 20	0	0	0	0	
517	0 ~ 250	0 ~ 25	0	0	0	0	
518	0 ~ 300	0 ~ 30	0	0	0	0	
519	0 ~ 350	0 ~ 35	0	0	0	0	

O : Available X : Not available

