



Products and Solutions

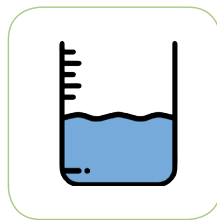
To Measure, Monitor and Control



Flow



Pressure



Level



Temperature



Analytical

For The Process Industries

AE721 PRESSURE GAUGE



Type AE 721 Bourdon Type Pressure Gauge, stainless steel case and measuring system with a welded socket and case construction, is designed for demanding application in the food & beverage, pharmaceutical, cryogenics, chemical and petrol chemical industries.

Technical Data

Standard Version		Material	
Measurement System	: Bourdon Type	Case	: AISI 304 Stainless Steel
Accuracy	: ±1% of Full Scale	Ring	: AISI 304 Stainless Steel
Ambient Temperature	: -25°C to +65°C	Bourdon	: AISI 316L Stainless Steel
Process Temperature	: Max. +300°C	Socket	: AISI 316L Stainless Steel (Directly welded to case)
Operating Pressure	: 75% of the Scale Value	Movement	: AISI 304 Stainless Steel
Over Pressure Limit	: 30% for pressure range up to 600 kg/cm ² 15% for pressure range above 600 kg/cm ²	Dial	: Aluminium, black graduation on white background
Protection	: IP65	Pointer	: Aluminium, black coloured Micrometer zero adjustable
Glycerine Filled Version		Window	: Sheet Glass
Accuracy	: ±1% of Full Scale	Blow off Disc	: Neoprene
Ambient Temperature	: Max. 65°C	Gasket	: Neoprene
Process Temperature	: +15°C to +65°C		
Window	: Plexi Glass		
Dampening Liquid	: Glycerine 98% (others available as option)		
Dial Face	: Ø 100 mm		
Process Connection	: 1/2" NPT male thread		

How To Order

Standard options available: (Special options on request)



TYPE	: 721
BODY MAT'L	: SS
SCALE RANGE	: 1 (-1 to +1 bar) : 2 (0 to +4 bar) : 3 (0 to +6 bar) : 4 (0 to +10 bar) : 5 (0 to +16 bar) : 6 (0 to +25 bar) : 7 (0 to +40 bar) : 8 (0 to +100 bar) : 9 (0 to +6 kg/cm ² / 0 to 90 psi) : 10 (0 to +10 kg/cm ² / 0 to 150 psi) : 11 (0 to +16 kg/cm ² / 0 to 240 psi) : 12 (0 to +25 kg/cm ² / 0 to 375 psi) : 13 (0 to +40 kg/cm ² / 0 to 600 psi) : (Other scale range on request)

DIAL FACE	: AA (Ø 100 mm - standard) : BB (Ø 150 mm - option)
PROCESS CONN.	: BC1/2 (1/2" NPT Male Thread Bottom connection) : CC1/2 (1/2" NPT Male Thread Center Back connection for Ø 100 mm dial face only) : LC1/2 (1/2" NPT Male Thread Lower Back connection)
LIQUID FILLED	: GF (Glycerine Filled) : 00 (Dry)

Example:

721-SS-4-AA-BC1/2-00

721-SS-10-BB-CC1/2-GF

AE722 PRESSURE GAUGE



Type AE 722 Bourdon Type Pressure Gauge, stainless steel case and measuring system with bayonet casing is designed for common applications in the food & beverage, pharmaceutical, cryogenics, chemical and petrol chemical industries.

Technical Data

Standard Version		Material	
Measurement System	: Bourdon Type	Case	: AISI 304 Stainless Steel
Accuracy	: $\pm 1.6\%$ of Full Scale	Ring	: AISI 304 Stainless Steel (Bayonet Type)
Ambient Temperature	: -25°C to $+60^{\circ}\text{C}$	Bourdon	: AISI 316 Stainless Steel
Process Temperature	: Max. $+180^{\circ}\text{C}$	Socket	: AISI 316 Stainless Steel
Operating Pressure	: 75% of the Scale Value	Movement	: AISI 304 Stainless Steel
Over Pressure Limit	: 30% for pressure range up to 400 kg/cm^2 15% for pressure range above 400 kg/cm^2	Dial	: Aluminium, black graduation on white background
Protection	: IP65	Pointer	: Aluminium, black coloured, Fixed
Glycerine Filled Version		Window	: Plexi Glass
Accuracy	: $\pm 1.6\%$ of Full Scale	Filling Plug	: Neoprene
Ambient Temperature	: Max. $+60^{\circ}\text{C}$	Gasket	: Silicon rubber
Process Temperature	: Max. $+65^{\circ}\text{C}$		
Window	: Plexi Glass		
Dampening Liquid	: Glycerine 98% (others available as option)		
Dial Face	: $\varnothing 63\text{ mm}$		
Process Connection	: 1/4" NPT male thread		

How To Order

Standard options available: (Special options on request)



TYPE	: 722
BODY MAT'L	: SS
SCALE RANGE	: 9 (0 to $+6\text{ kg/cm}^2$ / 0 to 90 psi) : 10 (0 to $+10\text{ kg/cm}^2$ / 0 to 150 psi) : 11 (0 to $+16\text{ kg/cm}^2$ / 0 to 240 psi) : 12 (0 to $+25\text{ kg/cm}^2$ / 0 to 375 psi) : 13 (0 to $+40\text{ kg/cm}^2$ / 0 to 600 psi) : 14 (0 to $+250\text{ kg/cm}^2$ / 0 to 3750 psi) : (Other scale range on request)
DIAL FACE	: CC ($\varnothing 63\text{ mm}$ - standard)

PROCESS CONN.	: BC1/4 (1/4" NPT Male Thread Bottom connection) : CC1/4 (1/4" NPT Male Thread Center Back connection) : LC1/4 (1/4" NPT Male Thread Lower Back connection)
LIQUID FILLED	: GF (Glycerine Filled) : 00 (Dry)

Example:

722-SS-9-CC-BC1/4-00

722-SS-12-CC-CC1/4-GF

AE723-AG PRESSURE GAUGE



Features & Application

- Dry or liquid filled
- Cost effective
- Standard followed in general eEN 837-1
- Pneumatics
- Hydraulics
- Pumps
- Compressors
- Diesel engines and gaseous / liquid media that will not obstruct the pressure system.

Specifications

Standard Version : 100 mm & 150 mm

Accuracy	: ±1.6% of F. S.
Ambient temperature	: - 20°C to + 65°C
Process temperature	: Max. 150°C
Operating Pressure Range	: 75% of Scale Value
Over pressure limit	: < 100 bar : 125% of Max. Scale Value : > 100 to < 600 bar : 115% of Max. Scale Value

Case & Bezel	: AISI 304 SS (Bayonet Type)
Bourdon	: Copper Alloy up to 70 kg/cm ² : AISI 316L SS for 100 kg/cm ² & above
Socket	: Copper Alloy
Movement	: Copper Alloy
Joints	: Alloy Brazing / Soldering

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black coloured Fixed
Window	: Plexi Glass
Filling Plug	: Neoprene
Gasket	: Neoprene
Blow off Disc	: Neoprene

Dry but fillable version (option FG)

Fillable Dampening Liquid	: Glycerine 99.7%
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Other Features	: Refer Specification of Standard Version

Glycerine filled version (option PY)

Accuracy	: ±1.6% of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7% (others available as option)
Other Features	: Refer Specification of Standard Version

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \%$ of F. S. where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

AE723 AT BRASS PRESSURE GAUGE



Features & Application

- Stainless steel case
- Rugged construction
- Dry or liquid filled
- Standard followed in general EN 837-1
- Oil
- Water
- Pneumatics
- Hydraulics
- Pump
- Compressors
- Diesel engines
- Gaseous / Liquid media that will not obstruct the pressure system

Specifications

Standard Version : 50 mm, 63 mm, 80 mm & 100 mm

Accuracy	: ±1.6% of F. S. (For NS 63 mm, 80 mm & 100 mm) & ±2.5% of F. S. (For NS 50 mm)
Ambient temperature	: - 20°C to + 65°C
Process temperature	: Max 150°C
Operating pressure range	: 75 % of Scale Value
Over pressure limit	: < 100 bar : 125% of Max. Scale Value : > 100 to < 600 bar : 115% of Max. Scale Value : > 600 to < 1600 bar : 110% of Max. Scale Value

Case	: AISI 304 SS (Rolling Type), Bayonet type for NS 80 mm
Bourdon	: Copper Alloy
Socket	: Copper Alloy
Movement	: Copper Alloy
Joints	: Alloy Brazing / Soldering

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Black coloured, Fixed
Window	: Plexi Glass
Blow off Disc	: Neoprene
Gasket	: Neoprene /Silicon Rubber

Glycerine Filled Version (Option PY)

Accuracy	: ±1.6% of F. S. (For NS 63 mm, 80 mm & 100 mm) & ±2.5% of F. S. (For 50 mm)
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7%
Other Features	ersion

Dry But Fillable Version (Option FG)

Fillable Dampening Liquid	: Glycerine 99.7%
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Other Features	ersion

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be
$$\frac{I_2 - I_1}{I_1} = \alpha (t_2 - t_1)$$
 . S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.

AE724 AA PRESSURE GAUGE



Features & Application

Economical version	Air
General purpose application	Water
HVAC	Hydraulic
Irrigation Equipment	Pneumatics
Allied process industries	Sugar mills
Filter-Regulator-Lubricator (FRL) Units	Valve positioner

Standard Version : 40 mm, 50 mm, 63 mm, 80 mm, 100 mm, 150 mm & 250 mm

Accuracy	: $\pm 1.6\%$ of F. S. (For NS 63 mm, 80 mm, 100 mm, 150 mm & 250 mm) $\pm 2.5\%$ of F. S. (For NS 40 mm & 50 mm)
Ambient temperature	: $- 20^{\circ}\text{C}$ to $+ 65^{\circ}\text{C}$
Process temperature	: Max. 150°C
Operating pressure range	: 75% of Scale Value
Over pressure limit	: < 100 bar : 125% of Max. Scale Value > 100 to < 600 bar : 115% of Max. Scale Value > 600 to < 1600 bar : 110% of Max. Scale Value

Case	: Steel, Powder coated / painted (Push Fit Type)
Bourdon	: Copper Alloy
Socket	: Copper Alloy
Movement	: Copper Alloy
Joints	: Alloy brazing / soldering

Dial	: Aluminium, black graduation on white background
Pointer	
Window	: Sheet glass

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the accuracy while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \%$ of F. S. where t_1 = reference temperature ($+20^{\circ}\text{C}$) and t_2 = ambient temperature in $^{\circ}\text{C}$.

AE725 AC PRESSURE GAUGE



Features & Application

- Polypropylene case & stainless steel measuring system Dry or liquid filled
- Standard followed in general EN 837-1
- Corrosive atmosphere
- Hazardous environment applications

Specifications

Standard Version : 100 mm & 150 mm

Accuracy	: ±1.0% of F. S.
Ambient temperature	: - 25°C to + 65°C
Process temperature	: Max. 100°C
Operating pressure range	: 75% of Scale Value
Over pressure limit	: < 100 bar : 125% of Max. Scale Value
	: > 100 to < 600 bar : 115% of Max. Scale Value
	: > 600 to < 1600 bar : 110% of Max. Scale Value

Case	: POLYPROPYLENE (PP)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS
Movement	: AISI 304 SS
Joints	Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured, Micrometer zero adjustable
Window	: Sheet Glass
Blow out of disc & gasket	: Neoprene
Filling plug	: Neoprene

Glycerine Filled Version (option PY)

Accuracy	: ±1.0% of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7% (others available as an option)
Other Features	ersion

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S.}$ where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

AE725 AE PRESSURE GAUGE



Features & Application

Solid front thermoplastic case
 Accuracy + 0.5% F. S.
 Excellent load cycle stability & shock resistant
 Wetted parts AISI 316L
 Standard followed ASME - B 40.100
 Suitable for chemical / petrochemical, power stations, mining, on and offshore, mechanical engineering and plant engineering.
 Suitable for corrosive environment and gaseous or liquid media that will not obstruct the pressure system.
 With liquid filled case with high dynamic pressure pulsations or vibrations.

Specifications

Standard Version : (4 1/2 ")

Accuracy	: ± 0.5% F. S. (As per ASME B40.100)
Ambient temperature	: - 20°C to + 65°C
Process temperature	: Max 200 0 C
Operating pressure range	: 75 % of Scale Value
Over pressure limit	: < 100 bar : 125% of Max. Scale Value : > 100 to < 600 bar : 115% of Max. Scale Value : > 600 to < 1600 bar : 110% of Max. Scale Value

Case	: Black Glass Reinforced Thermoplastic (PBTP)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black Coloured, Micrometer Zero Adjustable
Window	: Shatterproof / Safety Glass
Blow Off Disk	: Black Glass Reinforced Thermoplastic (PB TP)
Gasket	: Neoprene

Glycerine Filled Version (option PY)

Accuracy	: ±1.0% of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7% (others available as an option)
Other Features	: Refer Specification of Standard Version

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : ± 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.



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