Bourdon tube pressure gauge For the process industry, Monel version Models 262.50, 263.50, 262.30 and 263.30

WIKA data sheet PM 02.33







For further approvals, see page 6

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive environments
- Oil and gas industry, chemical and petrochemical industries, power engineering and also water and wastewater technology
- Sour gas applications, also with NACE requirement

Special features

- With case filling (model 263) for applications with high dynamic pressure loads and vibrations
- Models 262.30 and 263.30: safety version with solid baffle wall (Solidfront) designed in accordance with the requirements of EN 837-1 and ASME B40.100
- Suitability for particularly aggressive media, due to very high corrosion resistance
- EMICOgauge version, to avoid fugitive emissions
- QR code on dial links to instrument-specific information

Description

The models 262 and 263 are high-quality Bourdon tube pressure gauges with wetted parts from extremely corrosion-resistant Monel.

The use of high-quality materials and the robust design are geared to applications in the chemical and process engineering industries with particularly aggressive acids or bases. The instrument is suitable for liquid and gaseous media, also in aggressive environments.

Scale ranges from $0 \dots 0.6$ to $0 \dots 1,000$ bar $[0 \dots 10$ to $0 \dots 15,000$ psi] ensure the measuring ranges required for a wide variety of applications.



Bourdon tube pressure gauge, model 262.30, NS 100 [4"]

The safety version is made up of a non-splintering window, a solid baffle wall between measuring system and dial and a blow-out back. In the event of a failure, the user is protected at the front side, as media or components can only be ejected via the rear of the case.

For harsh operating conditions (e.g. vibrations), all instruments are also available with an optional liquid filling.

The QR code on the dial allows instrument-specific information such as the serial number, the order number, certificates and other product data to be retrieved from the internet easily and in the long term.

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Data sheets showing similar products: Standard version, models 232.50 and 233.50; see data sheet PM 02.02 Safety version, models 232.30 and 232.30; see data sheet PM 02.04 Bourdon tube pressure gauge with switch contacts, models PGS23.100 and PGS23.160; see data sheet PV 22 02

see data sheet PV 22.02 Pressure gauge with mounted diaphragm seal, model DSS27M; see data sheet DS 95.12

Specifications

Basic information	
Standard	EN 837-1ASME B40.100
	For information on the "Selection, installation, handling and operation of pressure gauges", see technical information IN 00.05.
Further version	 For oxygen, oil- and grease-free Per NACE ¹) MR0175 / ISO 15156, use in H₂S-containing environments in oil and gas production With pre-volume deflagration flame arrester ²) for mounting to zone 0 (EPL Ga); model 910.21; see data sheet AC 91.02 EMICOgauge, to avoid fugitive emissions; instrument hook-up with instrumentation valves → See page 10
Nominal size (NS)	 Ø 63 mm [2 ½"] Ø 100 mm [4"] Ø 160 mm [6"]
Connection location	 Lower mount (radial) Lower back mount ³⁾
Window	Laminated safety glass (NS 63 [2 1/2"]: polycarbonate)
Case	
Model 262.50, 263.50	Safety level "S1" per EN 837-1: with blow-out device
Model 262.30, 263.30	Safety level "S3" per EN 837-1: with solid baffle wall and blow-out back
Internal pressure compensation	For scale ranges ≤ 0 16 bar [≤ 0 300 psi] the case can be vented and resealed
Material	 Stainless steel 1.4301 (304) Stainless steel 1.4571 (316Ti)
Ring	Bayonet bezel, stainless steel
Mounting	 Without Panel mounting flange, stainless steel Panel mounting flange, polished stainless steel Model 262.50, 263.50: surface mounting flange, stainless steel Model 262.30, 263.30: surface mounting lugs on the back, stainless steel
Case filling (model 263.50, 263.30)	 Without Glycerine Glycerine-water mixture for NS 100 [4"] and 160 [6"] with scale range ≤ 0 2.5 bar [≤ 0 40 psi] or for NS 63 [2 ½"] with scale range ≤ 0 4 bar [≤ 0 60 psi] Silicone oil
Movement	 Stainless steel everlast[®] version

General information about NACE standards; see data sheet IN 00.21
 Only for instruments with Ex approval
 Not available for NS 160 [6"]

Measuring element		
Type of measuring element	Bourdon tube, C-type or helical type	
Material	Monel 400 (2.4360)	
Leak tightness	 Helium tested, leakage rate: < 5 · 10⁻³ mbar l/s Helium tested, leakage rate: < 1 · 10⁻⁶ mbar l/s 	

Accuracy specifications		
Accuracy class		
NS 63 [2 ½"]	EN 837-1	Class 1.6
	ASME B40.100	±2 % of measuring span (grade A)
NS 100 [4"], 160 [6"]	EN 837-1	Class 1.0
	ASME B40.100	±1 % of measuring span (grade 1A)
Temperature error	On deviation from the reference conditions at the measuring system: $\leq \pm 0.4$ % per 10 °C [$\leq \pm 0.4$ % per 18 °F] of full scale value	
Reference conditions		
Ambient temperature	+20 °C [68 °F]	

Scale ranges

bar	
0 0.6 1)	040
01	060
0 1.6	0100
02.5	0 160
04	0250
06	0400
0 10	0600
0 16	0 1,000
025	-

kPa	
0 60 ¹⁾	0 4,000
0 100	0 6,000
0 160	0 10,000
0250	0 16,000
0 400	0 25,000
0600	0 40,000
0 1,000	0 60,000
0 1,600	0 100,000
0 2,500	-

kg/cm ²	
0 0.6 1)	0 40
0 1	0 60
0 1.6	0 100
0 2.5	0 160
04	0 250
06	0 400
0 10	0 600
0 16	0 1,000
0 25	-

MPa	
0 0.06 1)	04
0 0.1	06
0 0.16	0 10
0 0.25	0 16
0 0.4	0 25
0 0.6	0 40
0 1	0 60
0 1.6	0 100
0 2.5	

psi	
0 10 1)	0 1,000
0 15	0 1,500
030	02,000
060	0 3,000
0 100	0 4,000
0 160	0 5,000
0200	0 6,000
0 300	0 7,500
0 400	0 10,000
0 600	0 15,000
0800	-

1) Not available for NS 63 [2 1/2"]

Vacuum and +/- scale ranges

bar	
-0.6 0 ¹⁾	-1 +5
-1 0	-1 +9
-1 +0.6	-1 +15
-1 +1.5	-1 +24
-1 +3	-

kPa	
-60 0 ¹⁾	-100 +500
-100 0	-100 +900
-100 +60	-100 +1,500
-100 +150	-100 +2,400
-100 +300	-

MPa	
-0.06 0 ¹⁾	-0.1 +0.5
-0.1 0	-0.1 +0.9
-0.1 +0.06	-0.1 +1.5
-0.1 +0.15	-0.1 +2.4
-0.1 +0.3	-

psi	
-30 inHg 0	-30 inHg +100
-30 inHg +15	-30 inHg +160
-30 inHg +30	-30 inHg +200
-30 inHg +60	-30 inHg +300

1) Not available for NS 63 [2 1/2"]

Further details on: Scale ranges					
Unit	 bar psi kg/cm² kPa MPa 				
Increased overload safety	 Without 2 times 3 times 4 times 5 times 				
	The possibility of selection depends on scale range and nominal size				
Vacuum resistance	 Without Vacuum-resistant to -1 bar 				
Dial					
Scale colour	Black				
Material	Aluminium				
Customer-specific version	Other scales or customer-specific dials, e.g. with red mark, circular arcs or circular sectors, on request				
Pointer					
Instrument pointer	Aluminium, black				
Mark pointer / Drag pointer	 Without Red mark pointer on dial, fixed Red mark pointer on window, adjustable Mark pointer on bayonet bezel, adjustable Red drag pointer on window, adjustable 				
Pointer stop pin	 Without At zero point (only for NS 63 [2 ½"]) At 6 o'clock (only for NS 100 [4"], 160 [6"]) 				

 \rightarrow Other scale ranges on request

Process connection	
Standard	 EN 837-1 ISO 7 ANSI/B1.20.1
Size	
EN 837-1	 G ½ B, male thread G ½ B, male thread G ½ B, male thread M12 x 1.5, male thread M20 x 1.5, male thread
ISO 7	 R ¼, male thread R ½, male thread
ANSI/B1.20.1	 ¼ NPT, male thread ½ NPT, male thread
Restrictor	 Without Ø 0.6 mm [0.024"], Monel
Material (wetted)	
Process connection	Monel 400 (2.4360)
Bourdon tube	Monel 400 (2.4360)

 \rightarrow Other process connections on request

Operating conditions					
Medium temperature					
Instruments without filling	-40 +200 °C [-40 +39	02 °F]			
Instruments with glycerine filling	-20 +100 °C [-4 +212 °F]				
Instruments with silicone oil filling	-40 +100 °C [-40 +21	2 °F]			
Ambient temperature					
Instruments without filling or with silicone oil filling	-40 +60 °C [-40 +140 °F]				
Instruments with glycerine filling	-20 +60 °C [-4 +140 °F]				
Pressure limitation					
NS 63 [2 ½"]	Steady	3/4 x full scale value			
	Fluctuating	2/3 x full scale value			
	Short time	Full scale value			
NS 100 [4"], 160 [6"]	Steady	Full scale value			
	Fluctuating	0.9 x full scale value			
	Short time	1.3 x full scale value			
Ingress protection per IEC/EN 60529	 IP65 IP66 IP54 (for model 262.30, 263.30 with lower back mount) 				

Approvals

Logo	Description	Region
CE	EU declaration of conformity Pressure Equipment Directive PS > 200 bar, module A, pressure accessory	European Union
UK CA	UKCA Pressure equipment (safety) regulations	United Kingdom
-	CRN Safety (e.g. electr. safety, overpressure,)	Canada

Optional approvals

Logo	Description	Region
€€ €	EU declaration of conformity ATEX directive Hazardous areas - Ex h Gas II 2G Ex h IIC T6 T1 Gb X Dust II 2D Ex h IIIC T85°C T450°C Db X	European Union
UK CA	UKCA Equipment and protective systems intended for use in potentially explosive atmospheres regulations	United Kingdom
EHLEx	EAC Hazardous areas	Eurasian Economic Community
€€	Ex Ukraine Hazardous areas	Ukraine
ß	PAC Kazakhstan Metrology, measurement technology	Kazakhstan
-	MChS Permission for commissioning	Kazakhstan
-	PAC Ukraine Metrology, measurement technology	Ukraine
œ	PAC Uzbekistan Metrology, measurement technology	Uzbekistan
-	PAC China Metrology, measurement technology	China
	DNV Ships, shipbuilding (e.g. offshore)	International

Manufacturer's information and certificates

Logo	Description
-	Emission protection in accordance with TA-Luft (VDI 2440) ¹⁾
-	Pressure Equipment Directive (PED) for maximum allowable pressure PS \leq 200 bar

1) Only available for EMICOgauge, see page 12

Certificates (option)

Certificates	
Certificates	 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy) 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metal parts, indication accuracy) PCA calibration certificate, traceable and accredited in accordance with ISO/IEC 17025 Calibration certificate by a national accreditation body, traceable and accredited in accordance with ISO/IEC 17025 on request
Recommended calibration interval	1 year (dependent on conditions of use)

 \rightarrow For approvals and certificates, see website

Models 262.50 and 263.50, dimensions in mm [in]



NS	Weight						
	Model 262.50	Model 263.50					
63 [2 ½"]	Approx. 0.16 kg [0.35 lb]	Approx. 0.20 kg [0.44 lb]					
100 [4"]	Approx. 0.6 kg [1.32 lb]	Approx. 0.9 kg [1.98 lb]					
160 [6"]	Approx. 1.1 kg [2.43 lb]	Approx. 2.0 kg [4.41 lb]					

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]									
		h ±1	а	b	D1	D2	i	j	k	SW	
63 [2 ½"]	G ¼ B	54 [2.13]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
	G 1/8 B	51 [2.01]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
	M12 x 1.5	54 [2.13]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
100 [4"]	G ¼ B	80 [3.15]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	G ½ B	87 [3.43]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	M12 x 1.5	80 [3.15]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	M20 x 1.5	87 [3.43]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
160 [6"]	G ¼ B	111 [4.37]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	G ½ B	118 [4.65]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	M12 x 1.5	111 [4.37]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	M20 x 1.5	118 [4.65]	15.5 [0.61]	51.5 [2.03] ¹⁾	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	

Process connection with thread per ISO 7

NS	G	Dimensions in mm [in]									
		h ±1	а	b	D1	D2	i	j	k	SW	
63 [2 ½"]	R 1⁄4	54 [2.13]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
100 [4"]	R 1⁄4	80 [3.15]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	R 1⁄2	86 [3.39]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
160 [6"]	R 1⁄4	111 [4.37]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	R 1⁄2	117 [4.60]	15.5 [0.61]	51.5 [2.03] ¹⁾	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]									
		h ±1	а	b	D1	D2	i	j	k	SW	
63 [2 ½"]	1/4 NPT	54 [2.13]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
	1/8 NPT	51 [2.01]	9.5 [0.37]	33 [1.30]	63 [2.48]	62 [2.44]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
100 [4"]	1⁄4 NPT	80 [3.15]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	1⁄2 NPT	86 [3.39]	15.5 [0.61]	49.5 [1.95]	101 [3.98]	99 [3.90]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
160 [6"]	1⁄4 NPT	111 [4.37]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	1/2 NPT	117 [4.60]	15.5 [0.61]	51.5 [2.03] 1)	161 [6.34]	159 [6.26]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	



NS	Weight					
	Model 262.50	Model 263.50				
63 [2 ½"]	Approx. 0.16 kg [0.35 lb]	Approx. 0.20 kg [0.44 lb]				
100 [4"]	Approx. 0.6 kg [1.32 lb]	Approx. 0.9 kg [1.98 lb]				

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]								
		h ±1	b	D1	D2	е	i	j	k	SW
63 [2 ½"]	G ¼ B	57 [2.24]	33 [1.30]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]
	G 1/8 B	54 [2.13]	33 [1.30]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]
	M12 x 1.5	57 [2.24]	33 [1.30]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]
100 [4"]	G ¼ B	76 [2.99]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]
	G ½ B	83 [3.27]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]
	M12 x 1.5	76 [2.99]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]
	M20 x 1.5	83 [3.27]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]

Process connection with thread per ISO 7

NS	G	Dimensions in mm [in]								
		h ±1	b	D1	D2	е	i	j	k	SW
63 [2 ½"]	R 1⁄4	57 [2.24]	33 [1.30]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]
100 [4"]	R 1⁄4	76 [2.99]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]
	R 1⁄2	82 [3.23]	49.5 [1.95]	101 [3.98]	99 [3.90]	30 [1.181]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]									
		h ±1	b	D1	D2	е	i	j	k	SW	
63 [2 ½"]	1⁄4 NPT	54 [2.13]	33 [1.30]	63 [2.48]	62 [2.44]	50 [1.97]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
	1⁄8 NPT	51 [2.01]	33 [1.30]	63 [2.48]	62 [2.44]	50 [1.97]	6 [0.24]	10 [0.39]	15 [0.59]	14 [0.55]	
100 [4"]	1/4 NPT	80 [3.15]	49.5 [1.95]	101 [3.98]	99 [3.90]	50 [1.97]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	
	1⁄2 NPT	86 [3.39]	49.5 [1.95]	101 [3.98]	99 [3.90]	50 [1.97]	6.5 [0.26]	14.5 [0.57]	22.5 [0.89]	22 [0.87]	

1) Plus 16 mm [0.630 in] with scale ranges ≥ 0 ... 100 bar [≥ 0 ... 1,500 psi]

Models 262.30 and 263.30, dimensions in mm [in]



NS	Weight						
	Model 262.30	Model 263.30					
63 [2 ½"]	Approx. 0.20 kg [0.44 lb]	Approx. 0.26 kg [0.57 lb]					
100 [4"]	Approx. 0.65 kg [1.43 lb]	Approx. 1.08 kg [2.38 lb]					
160 [6"]	Approx. 1.30 kg [2.87 lb]	Approx. 2.34 kg [4.94 lb]					

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]								
		h ±1 [0.04]	а	b	D1	D2	i	j	k	SW
63 [2 ½"]	G ¼ B	54 [2.13]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]
	G 1/8 B	51 [2.01]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]
	M12 x 1.5	54 [2.13]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]
100 [4"]	G ¼ B	87 [3.43]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]
	G ½ B	87 [3.43]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]
	M12 x 1.5	80 [3.15]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]
	M20 x 1.5	87 [3.43]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]
160 [6"]	G ¼ B	111 [4.37	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]
	G ½ B	118 [4.65]	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]
	M12 x 1.5	111 [4.37]	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]
	M20 x 1.5	118 [4.65]	27 [1.06] ¹⁾	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]

Process connection with thread per ISO 7

NS	G	Dimensions in mm [in]									
		h ±1 [0.04]	а	b	D1	D2	i	j	k	SW	
63 [2 ½"]	R 1⁄4	54 [2.13]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
100 [4"]	R 1⁄4	80 [3.15]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	R 1⁄2	86 [3.39]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
160 [6"]	R 1⁄4	111 [4.37]	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]	
	R 1⁄2	117 [4.61]	27 [1.06] ¹⁾	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]	

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]									
		h ±1 [0.04]	а	b	D1	D2	i	j	k	SW	
63 [2 ½"]	1⁄4 NPT	54 [2.13]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
	1/8 NPT	51 [2.01]	17.5 [0.69]	42 [1.65]	63 [2.48]	62 [2.44]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
100 [4"]	1⁄4 NPT	80 [3.15]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	1/2 NPT	86 [3.39]	25 [0.98]	59.5 [2.34]	100 [3.94]	100 [3.94]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
160 [6"]	1⁄4 NPT	111 [4.37]	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]	
	1/2 NPT	117 [4.61]	27 [1.06] 1)	65 [2.56] ²⁾	159 [6.26]	159 [6.26]	6 [0.24]	18.5 [0.73]	15 [0.59]	22 [0.87]	

1) With scale range $\geq 0 \dots 100$ bar [1,500 psi] a = 41.5 [1.63] 2) With scale range $\geq 0 \dots 100$ bar [1,500 psi] b = 79 [3.11]

Model 262.30, lower back mount



NS	Weight, model 262.30
63 [2 ½"]	Approx. 0.20 kg [0.44 lb]
100 [4"]	Approx. 0.65 kg [1.43 lb]

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]								
		b1	b2	D1	D2	е	f	SW		
63 [2 ½"]	G ¼ B	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
	G 1/8 B	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
	M12 x 1.5	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
100 [4"]	G ¼ B	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		
	G ½ B	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		
	M12 x 1.5	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		
	M20 x 1.5	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		

Process connection with thread per ISO 7

NS	G	Dimensions in mm [in]								
		b1	b2	D1	D2	е	f	SW		
63 [2 ½"]	R 1⁄4	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
100 [4"]	R 1⁄4	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		
	R 1⁄2	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]								
		b1	b2	D1	D2	е	f	SW		
63 [2 ½"]	1⁄4 NPT	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
	1⁄8 NPT	42 [1.65]	61 [2.4]	63 [2.48]	62 [2.44]	14.5 [0.57]	18.5 [0.73]	14 [0.55]		
100 [4"]	1⁄4 NPT	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		
	1⁄2 NPT	59.5 [2.34]	93 [3.66]	101 [3.98]	100 [3.94]	17 [0.67]	30 [1.18]	22 [0.87]		



NS	Weight, model 263.30
63 [2 ½"]	Approx. 0.28 kg [0.62 lb]
100 [4"]	Approx. 1.08 kg [2.38 lb]

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]									
		b1	b2	D1	D2	f	i	j	k	SW	
63 [2 ½"]	G ¼ B	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
	G 1/8 B	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
	M12 x 1.5	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
100 [4"]	G ¼ B	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	G ½ B	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	M12 x 1.5	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	M20 x 1.5	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	

Process connection with thread per ISO 7

NS	G	Dimensions in mm [in]									
		b1	b2	D1	D2	f	i	j	k	SW	
63 [2 ½"]	R 1⁄4	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
100 [4"]	R 1⁄4	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	R 1⁄2	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]									
		b1	b2	D1	D2	f	i	j	k	SW	
63 [2 ½"]	1⁄4 NPT	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
	1⁄8 NPT	42 [1.65]	68 [2.68]	63 [2.48]	62 [2.44]	18.5 [0.73]	6 [0.24]	18 [0.71]	15 [0.59]	14 [0.55]	
100 [4"]	1⁄4 NPT	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	
	1⁄2 NPT	59.5 [2.34]	100 [3.94}	101 [3.98]	100 [3.94]	30 [1.18]	6 [0.24]	24 [0.94]	15 [0.59]	22 [0.87]	

EMICOgauge Instrument hook-up with instrumentation valves

The EMICOgauge instrument hook-up, consisting of pressure gauge and instrumentation valve, minimises the number of leakage points and thus reduces the risk of media escaping into the environment. In order to guarantee the system's leak tightness, an additional leak test is carried out in advance, for each component.

During mounting, the 360° swivel adapter connection of the EMICOgauge enables quick alignment of the pressure gauge with simultaneous pressure sealing. With this design, maintenance and dismounting of the pressure gauge and valve are also easy. WIKA can guarantee the leak tightness of the assembly for up to 20 mounting and dismounting operations.

There are a very large number of possible combinations of pressure gauges and the attachable valve models IV1x, IV2x and IVM. Since special pressure connections are often required for specific applications, a large number of variants have been defined for the EMICOgauge in order to avoid adapters, which would otherwise be needed, with their 2 additional sealing points.

Advantages

- Significantly reduced risk of fugitive emissions, since the version for "fugitive emissions" complies with TA-Luft (VDI 2440)
- Fully tested and ready-to-install solution of an instrument-valve assembly
- Reduction of leakage paths in pressurised systems
- 360° swivel connection (swivel adapter) enables easy replacement and positioning of pressure gauges
- For various applications in chemical and petrochemical plants such as gas processing and production

Specifications



Assembly					
Mounting type	EMICOgauge connection: 360° swivel connection (swivel adapter) with special pres- sure sealing Spare part: 5 x seal set consisting of O-ring and support ring; item no. 14525042				
Instrumentation valve	 Instrument version of IVM → See data sheet AC 09.17 Model IV10, IV11 or IV20 → See data sheets AC 09.22 and AC 09.19 				



EMICOgauge consisting of model 262.30, NS 100 [4"] and mounted instrumentation valve

Special pressure sealing

The redundant sealing, consisting of metal-to-metal seat and an additional O-ring seal with support ring, ensures

the required leak tightness of the measuring assembly in addition to a long service life.



Process connection					
Standard					
Model IVM	 In line with ASME B16.5, RF or RJ In line with EN 1092-1, form B1 or B2 				
Model IV10, IV11 or IV20	■ ANSI/B1.20.1 ■ EN 837-1				
Size					
In line with ASME B16.5, RF or RJ	Flange 1/2" 2" / class 150 class 2500				
In line with EN 1092-1, form B1 or B2	Flange DN 15 DN 25 / PN 16 PN 100				
ANSI/B1.20.1	1/2 NPT, male thread or 1/2 NPT, female thread				
EN 837-1	G 1/2 B male				
Material (wetted)					
Process connection	Monel 400 (2.4360)				
Seal	O-ring: FKM; support ring: PEEK				

Operating conditions	
Medium temperature	
With pressure gauge without filling	-20 +150 °C [-4 +302 °F]
With pressure gauge with filling	-20 +100 °C [-4 +212 °F]
Ambient temperature	-20 +60 °C [-4 +140 °F]
Leak tightness of the overall system	Fulfills the fugitive emission requirements per TA Luft (VDI 2440), helium tested, leakage rate: < $1 \cdot 10^{-4}$ mbar l/s

Examples of EMICOgauge, model 262.30, NS 100 [4"] and mounted instrumentation valve



Accessories and spare parts

Model		Description
°°°°°	910.17	Seals → See data sheet AC 09.08
PP	910.15	Syphons → See data sheet AC 09.06
Rate of the second seco	910.13	Overpressure protector → See data sheet AC 09.04
	IV10, IV11	Needle valve and multiport valve → See data sheet AC 09.22
	IV20, IV21	Block-and-bleed valve → See data sheet AC 09.19
	IVM	Monoflange, process and instrument version → See data sheet AC 09.17
	BV	Ball valve, process and instrument version → See data sheet AC 09.28
	IBF2, IBF3	Monoblock with flange connection → See data sheet AC 09.25

Ordering information

Model / Nominal size / Scale range / Process connection / Connection location / Options

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