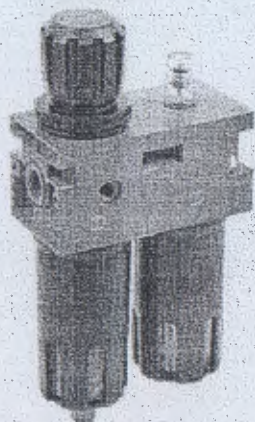


1/4 filter group, 1/4 maintenance unit for pneumatic applications, semi-automatic drain, compact size in 2 modules (FR+L). Among the main characteristics of this filter group, it has a great flow performance compared to its size and reduced weight satisfying the current demand for miniaturization and performance. Made of aluminum and with plastic tanks with metal protection. The filter device is equipped with a highly durable 20 μm filter element. The type of purge is manual and automatic when pressure is removed.

Note: the pressure gauge is not included in the supply, it must be ordered separately.

Characteristics of the filter group:

- Manufacturer: Metal Work
- Reference: 1226054
- Number of elements: 2 (FR+L).
- Thread size: 1/4"
- Condensate drain type: RMSA
- Metal glass with external viewer.
- Built-in overpressure bleed valve.
- Adjustment range (bar): 0 ÷ 12
- Filtration degree (μm) : 20
- Maximum inlet pressure (MPa / bar / psi): 1.8 / 18 / 261
- Flow rate at 6.3 bar (0.63 MPa ÷ 91 psi) ΔP 0.5 bar (0.05 MPa ÷ 7 psi) (NL/min): 150
- Flow rate at 6.3 bar (0.63 MPa ÷ 91 psi) ΔP 1 bar (0.1 MPa ÷ 14 psi) (NL/min): 500
- max temperature at 1MPa; bar ; 145psi (°C): 50

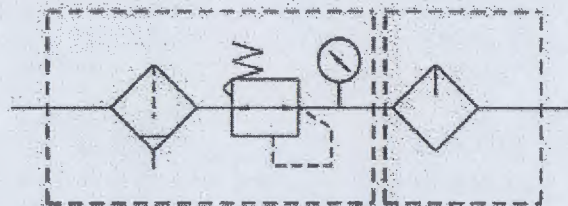


PNEUMATIC FILTER GROUP 1/4 REGULATION 0-12 BAR SEMI-AUTOMATIC PURGE SERIE NEW DEAL - METAL WORK

€87.60 Tax included
€73.00 tax excl.

1/4 filter group, 1/4 maintenance unit for pneumatic applications, semi-automatic drain, compact size in 2 modules (FR+L), regulation range 0-12 kg/cm². Very high resistance in any type of environment, made of aluminum and plastic tanks with metal protection. European manufacturing.

Series: **New Deal**
Reference: **1226054**



**METAL
WORK**
PNEUMATIC

SINÓPTICO TAMAÑOS Y VERSIONES

FR+L ELEMENTO	1/4 CONEXIÓN ROSCADA	4 GRADO DE FILTRACIÓN	08 GAMA DE REGULACIÓN	RMSA TIPO DE PURGA CONDENSACIÓN	RMSA: Purga manual de la condensación y purga automática cuando se quita la presión. SAC: Purga automática condensación. Funcionamiento "con depresión", requiere llamadas de aire variables RA: Grifo automático purga condensación. Funcionamiento "con boya", independiente de la presión y del caudal. La versión conduce el drenaje insertando el tubo que tiene un diámetro interno de 6 mm en el puerto inferior. Para versión ND 3/8-1/2 con RA contactar con nuestro dpto. comercial
FR+L	1/4 3/8 1/2	4 = 4 µm 20 = 20 µm 50 = 50 µm	08 = 0 ÷ 8 bar 012 = 0 ÷ 12 bar	RMSA SAC SAC RA*	

CÓDIGOS DE PEDIDO

Código	Referencia	Código	Referencia
FR+L 1/4"		FR+L 3/8"	
1226029	FR+L 1/4 4 08 RMSA	1326029	FR+L 3/8 4 08 RMSA
1226409	FR+L 1/4 4 08 SAC	1326409	FR+L 3/8 4 08 SAC
1226053	FR+L 1/4 4 012 RMSA	1326053	FR+L 3/8 4 012 RMSA
1226413	FR+L 1/4 4 012 SAC	1326413	FR+L 3/8 4 012 SAC
1226030	FR+L 1/4 20 08 RMSA	1326030	FR+L 3/8 20 08 RMSA
1226410	FR+L 1/4 20 08 SAC	1326034	FR+L 3/8 20 08 RA
1226054	FR+L 1/4 20 012 RMSA	1326410	FR+L 3/8 20 08 SAC
1226414	FR+L 1/4 20 012 SAC	1326054	FR+L 3/8 20 012 RMSA
1226032	FR+L 1/4 50 08 RMSA	1326058	FR+L 3/8 20 012 RA
1226412	FR+L 1/4 50 08 SAC	1326414	FR+L 3/8 20 012 SAC
1226056	FR+L 1/4 50 012 RMSA	1326032	FR+L 3/8 50 08 RMSA
1226416	FR+L 1/4 50 012 SAC	1326412	FR+L 3/8 50 08 SAC
		1326056	FR+L 3/8 50 012 RMSA
		1326416	FR+L 3/8 50 012 SAC
		FR+L 1/2"	
		1426029	FR+L 1/2 4 08 RMSA
		1426409	FR+L 1/2 4 08 SAC
		1426053	FR+L 1/2 4 012 RMSA
		1426413	FR+L 1/2 4 012 SAC
		1426030	FR+L 1/2 20 08 RMSA
		1426034	FR+L 1/2 20 08 RA
		1426410	FR+L 1/2 20 08 SAC
		1426054	FR+L 1/2 20 012 RMSA
		1426058	FR+L 1/2 20 012 RA
		1426414	FR+L 1/2 20 012 SAC
		1426032	FR+L 1/2 50 08 RMSA
		1426412	FR+L 1/2 50 08 SAC
		1426056	FR+L 1/2 50 012 RMSA
		1426416	FR+L 1/2 50 012 SAC

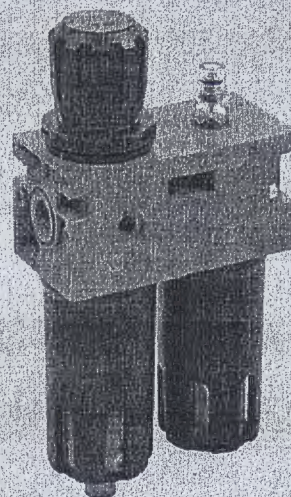
GRUPOS

FR + LUB New deal

Unidad FR + L de pistón robusto y fiable.

- Estabilidad de la presión fijada al variar la superior
- Vaso metálico con visor externo.
- Purga de la condensación de tipo semiautomático y automático.
- Proporcionalidad entre cantidad de lubricante y caudal.
- Regulación micrométrica de la lubricación.
- Estanqueidad garantizada en bajos caudales.

Consulte las secciones de los módulos individuales para obtener una descripción más detallada, los componentes y otros datos técnicos.



DATOS TÉCNICOS

Conexión roscada

Campo de regulación

Grado de filtración

Presión máx. de entrada

Caudal a 6.3 bar (0.63 MPa + 91 psi) ΔP 0.5 bar (0.05 MPa + 7 psi)

Caudal a 6.3 bar (0.63 MPa + 91 psi) ΔP 1 bar (0.1 MPa + 14 psi)

Temperatura máx. a 1 MPa; 10 bar; 145 psi

Peso

Tornillos de fijación en pared

Fluido

Notas de uso

FR+L ND 1/4"

FR+L ND 3/8"

FR+L ND 1/2"

1/4"

3/8"

1/2"

0 + 8 - 0 + 12

0 + 8 - 0 + 12

4 - 20 - 50

4 - 20 - 50

1.8

1.8

18

18

261

261

150

1300

5.3

46

500

2200

18

78

50

50

122

122

0.9

2

M4 x 40

M4 x 55

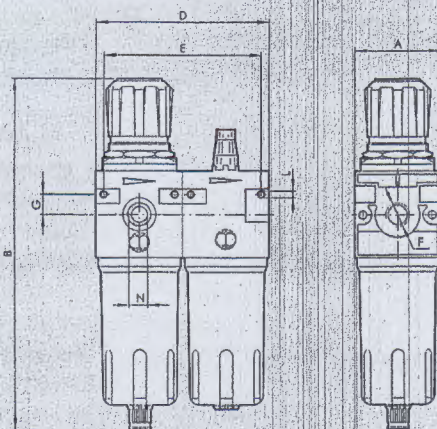
Aire comprimido

La presión máxima de entrada para la versión con descarga automática de la condensación

RA no debe sobrepasar los 10 bar.

No tomar aire de los empalmes manométricos.

DIMENSIONES



		FR+L ND 1/4"	FR+L ND 3/8"	FR+L ND 1/2"
Conexión roscada F		1/4"	3/8"	1/2"
A		42		60
B	RMSA	190		245
	RA			249
	SAC	194		249
D		84		120
E		76		109
G		10		14
I		Agujero para tornillos x M4		Agujero para tornillos x M4
N (Conexión manómetro)		1/8"		1/8"



pressostati

pressure switches



فهم

CODICI DI ORDINAZIONE - ORDER CODES	
NC (NC)	NA (NO)
17.005.0	17.004.0

Temperatura di esercizio Temperature range	max +60°C
Campo di taratura Setting range	1 ... 10 bar 0.1 ... 1 MPa
Tolleranza a 20°C Tolerance at 20°C	0.5 bar 0.05 MPa
Tensione massima Max. tension	48V AC
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

3

Materiali

Corpo: ottone OT 58

Membrana: gomma FKM

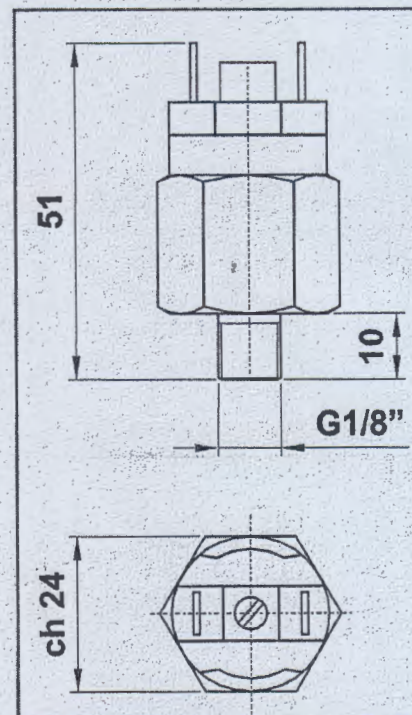
Contatti: argentati

Materials

Body: brass OT 58

Diaphragm: rubber FKM

Electrical contacts: silver plated

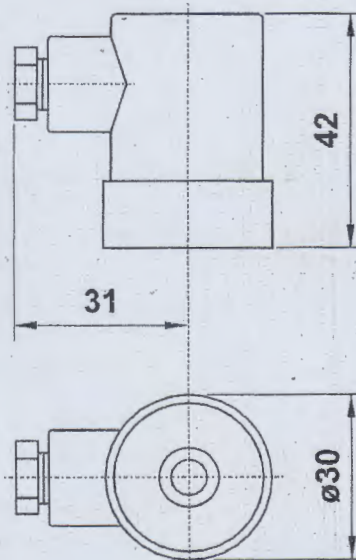


cappucci

caps

IP 65

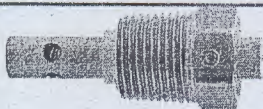
17.007.0



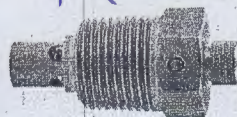
IP 54

17.008.0





GTP-235-3/8
shown with standard dust plug (included)



GTP-235-3/8S



Coupler shown with actuator (not included)



GTP-235-3/8AH

COUPLERS

The exposed portion of the Jet Test QD® coupler is no larger than a standard hex head pipe plug, yet it contains an inner or primary seal as well as an outer secondary seal which is created by the dust plug.

See the table below to determine the appropriate coupler for your application.

The three couplers shown here are pictured with the standard knurled dust plugs.

DUST PLUGS

This is a dust plug that is also a secondary pressure seal. It is removed only when a test is to be run. GTP-235-9K is the standard plug for the GTP-235-3/8 coupler. GTP-235-9SK is the standard plug for the "AH" and "S" couplers. The standard plug is included unless otherwise specified. If the tee handle plug is desired, the customer must specify (GTP-235-9T for standard length, or GTP-235-9ST for "AH" and "S" couplers).



GTP-235-9K



GTP-235-9T



GTP-235-9SK



GTP-235-9ST



GTP-235-2



GTP-235-2AH

ACTUATORS

The actuator should be attached permanently to the test apparatus or pressure gauge. The standard actuator is GTP-235-2. A short version, GTP-235-2AH, is available to fit the "S" and "AH" couplers. Both actuators have 1/4" NPT threads.

Insert the actuator nipple, and rotate a quarter turn to lock on the bayonet pin. The internal valve automatically opens and a test can be performed.

REFUELING NOZZLE			JET TEST QD® COUPLER MODEL	
MAKE	MODEL	THREAD SIZE	LONG STYLE	SHORT STYLE
Whittaker* Carter Cla-Val	All models	3/8 NPT	GTP-235-3/8	GTP-235-3/8S (see note)
Avery Hardoll	Carter	3/8 BSP		GTP-235-3/8AH
NOTE: Avery Hardoll and Flight Refueling nozzles must use the short or AH Jet Test QD® to avoid interference, and therefore must use short actuators (GTP-235-2AH). Customers who also have other brands of nozzles should use the "short" or "S" style Jet Test QD® so that both long and short actuators will not be needed on test equipment.			ACTUATOR FOR ABOVE MODELS	
			GTP-235-2	GTP-235-2AH
			Actuators have 1/4" NPT threads.	

All metal components are 300 Series stainless steel, except the dust plug, which is aluminum. The sealing compound is Viton. We welcome an opportunity to propose on non-standard specials to meet other size, thread, material, or sealing compound specifications.

To order replacement dust plugs, specify the style shown in the photograph above. If the coupler has the suffix "AH" or "S," be sure to order the GTP-235-9SK or GTP-235-9ST dust plug.

****CAUTION:** If the sample ports on a Carter nozzle are laterally side by side when the nozzle is viewed with the nose seal up, use only the right hand port.

*Formerly known as Parker, Thiem, and now Whittaker.

GAMMON

GAMMON TECHNICAL PRODUCTS, INC.
P.O. BOX 400 - 2300 HWY 34
MANASQUAN, N.J. 08736

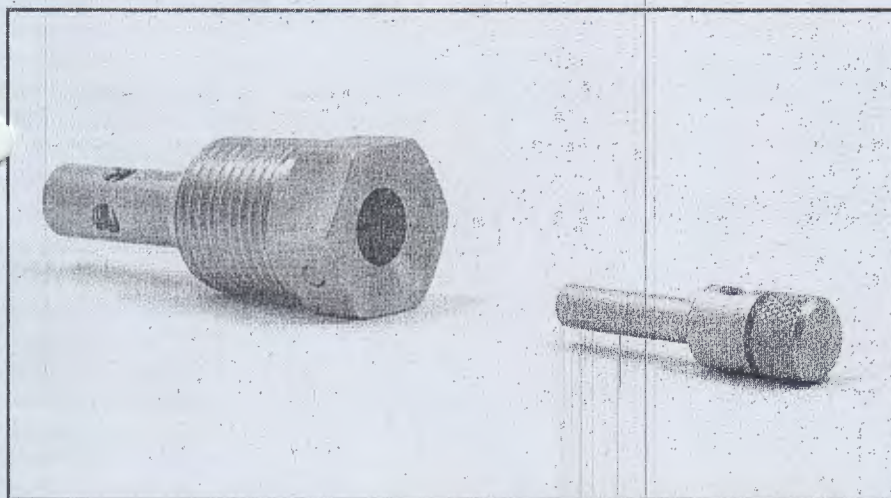
PHONE 732-223-4600
FAX 732-223-5778
WEBSITE www.gammontech.com
STORE www.gammontechstore.com

JET TEST QD®

BULLETIN 14
(12-18)

TESTING DURING REFUELING WITH THE JET TEST QD®

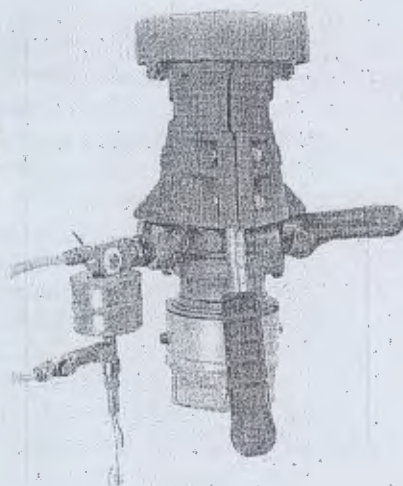
**A MINIATURE, PERMANENTLY-INSTALLED QUICK DISCONNECT
COUPLER FOR TESTING DURING JET REFUELING OPERATIONS**



Backed by 40 years of successful performance all over the world, the Jet Test QD® is a proven concept in Quick Disconnect Couplers for performing tests for dirt, water, and pressure regulation during the refueling of jet aircraft.

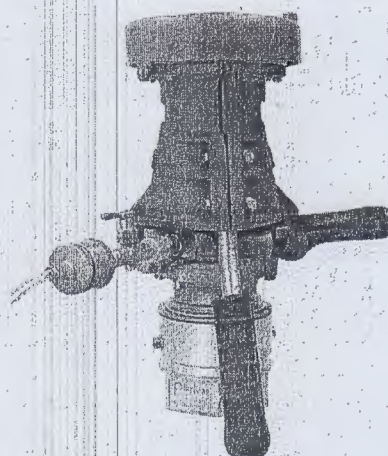
The Jet Test QD® is so small that it can be installed permanently on the underwing fuel nozzle. Prior to the introduction of this product, a pressure or contamination test at the nozzle could not be performed without considerable fuel spillage while a connection was fabricated at the plugged port.

USES FOR THE JET TEST QD®



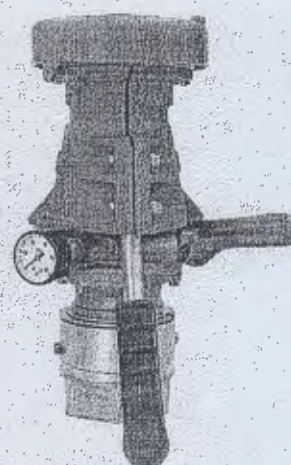
Perform a contamination test with the Gammon MiniMonitor® Kit (or Millipore Test Kit). Just twist out the dust plug with a coin and insert the test apparatus. It takes only 15 seconds.

SEE BULLETIN 8



Perform a water test with the Gammon Aqua-Glo®. A complete test can easily be performed, including dust plug removal and replacement well within three minutes.

SEE BULLETIN 86



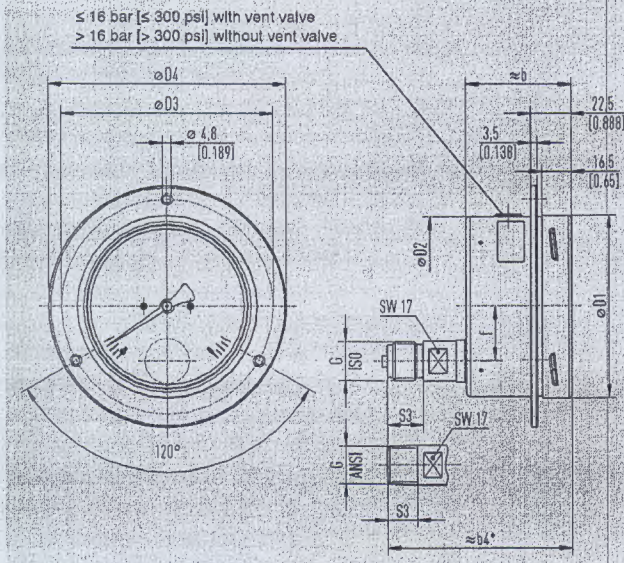
Perform a pressure test while refueling the aircraft. It takes only a few seconds. Simply twist the dust plug with a coin and pull it out, then insert the test gauge and twist to lock on the bayonet pin.

SEE BULLETIN 46

Dimensions in mm [in]

Model PG23CP, safety level "S3"

Lower back mount



NS	Weight	
	Without filling	With filling
63 [2 1/2"]	Approx. 0.25 kg [0.55 lb]	Approx. 0.34 kg [0.75 lb]
100 [4"]	Approx. 0.62 kg [1.37 lb]	Approx. 0.71 kg [1.57 lb]

Process connection with thread per EN 837-1

NS	G	Dimensions in mm [in]							
		b4	S3	D1	D2	D3	D4	b	f
63 [2 1/2"]	G 1/8 B	58.5 [2.30] ¹⁾	10 [0.39]	63.5 [2.5]	62 [2.44]	75.5 [2.97]	85 [3.35]	41.5 [1.63]	18.5 [0.73]
	G 1/4 B	61.5 [2.52] ¹⁾	13 [0.51]	63.5 [2.5]	62 [2.44]	75.5 [2.97]	85 [3.35]	41.5 [1.63]	18.5 [0.73]
NS 100 [4"]	G 1/8 B	82 [3.29] ²⁾	10 [0.39]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	G 1/4 B	85 [3.36] ²⁾	13 [0.51]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	G 3/8 B	88 [3.46] ²⁾	16 [0.63]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	G 1/2 B	92 [3.62] ²⁾	20 [0.79]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]

1) For NS 63 [2 1/2"] instruments with case filling, dimension b4 increases by 6.5 mm [0.26"]

2) For NS 100 [4"] instruments with case filling, dimension b4 increases by 8 mm [0.31"]

Process connection with thread per ANSI/B1.20.1

NS	G	Dimensions in mm [in]							
		b4	S3	D1	D2	D3	D4	b	f
63 [2 1/2"]	1/8 NPT	58.5 [2.30] ¹⁾	10 [0.39]	63.5 [2.5]	62 [2.44]	75.5 [2.97]	85 [3.35]	41.5 [1.63]	18.5 [0.73]
	1/4 NPT	61.5 [2.52] ¹⁾	13 [0.51]	63.5 [2.5]	62 [2.44]	75.5 [2.97]	85 [3.35]	41.5 [1.63]	18.5 [0.73]
NS 100 [4"]	1/8 NPT	82 [3.29] ²⁾	10 [0.39]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	1/4 NPT	85 [3.36] ²⁾	13 [0.51]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	3/8 NPT	87 [3.43] ²⁾	15 [0.59]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]
	1/2 NPT	91 [3.58] ²⁾	19 [0.75]	100 [3.94]	99 [3.9]	118 [4.65]	132 [5.20]	58.5 [2.30]	30 [1.18]

1) For NS 63 [2 1/2"] instruments with case filling, dimension b4 increases by 6.5 mm [0.26"]

2) For NS 100 [4"] instruments with case filling, dimension b4 increases by 8 mm [0.31"]

Accuracy specifications	
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	$+20^\circ\text{C}$ [$+68^\circ\text{F}$]

Scale ranges

bar	
0 ... 0.6 ¹⁾	0 ... 40
0 ... 1	0 ... 60
0 ... 1.6	0 ... 100
0 ... 2.5	0 ... 160
0 ... 4	0 ... 250
0 ... 6	0 ... 400
0 ... 10	0 ... 600
0 ... 16	0 ... 1,000
0 ... 25	0 ... 1,600

kg/cm ²	
0 ... 0.6 ¹⁾	0 ... 40
0 ... 1	0 ... 60
0 ... 1.6	0 ... 100
0 ... 2.5	0 ... 160
0 ... 4	0 ... 250
0 ... 6	0 ... 400
0 ... 10	0 ... 600
0 ... 16	0 ... 1,000
0 ... 25	0 ... 1,600

kPa	
0 ... 60 ¹⁾	0 ... 4,000
0 ... 100	0 ... 6,000
0 ... 160	0 ... 10,000
0 ... 250	0 ... 16,000
0 ... 400	0 ... 25,000
0 ... 600	0 ... 40,000
0 ... 1,000	0 ... 60,000
0 ... 1,600	0 ... 100,000
0 ... 2,500	0 ... 160,000

MPa	
0 ... 0.06 ¹⁾	0 ... 4
0 ... 0.1	0 ... 6
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	0 ... 160

psi	
0 ... 10 ¹⁾	0 ... 1,000
0 ... 15	0 ... 1,500
0 ... 30	0 ... 2,000
0 ... 60	0 ... 3,000
0 ... 100	0 ... 4,000
0 ... 160	0 ... 5,000
0 ... 200	0 ... 6,000
0 ... 300	0 ... 7,500
0 ... 400	0 ... 10,000
0 ... 600	0 ... 15,000
0 ... 800	0 ... 20,000

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

Specifications

Basic information	
Standard	■ EN 837-1 ■ ASME B40.100 For information on the "Selection, installation, handling and operation of pressure gauges", see technical information IN 00.05.
Further version	■ Oil- and grease-free for oxygen ■ 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
Nominal size (NS)	■ Ø 63 mm [2 ½"] ■ Ø 100 mm [4"]
Connection location	■ Lower back mount ■ Centre back mount
Window	■ Laminated safety glass ■ Polycarbonate
Case	
Design	■ Safety level "S1" per EN 837-1: with blow-out device ■ Safety level "S3" per EN 837-1: with solid baffle wall (Solidfront) and blow-out back Scale ranges ≤ 0 ... 16 bar [≤ 0 ... 300 psi] with equalising valve to vent and reseal case
Material	■ Stainless steel 1.4301 (304) ■ Stainless steel 1.4571 (316Ti) ■ Stainless steel 1.4404 (316L)
Ring	Bayonet bezel, stainless steel
Mounting	Control panel version with seal
Case filling	■ Without ■ Glycerine ■ Glycerine-water mixture for NS 100 [4"] 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 ■ Stainless steel 1.4404 (316L) ■ everlast® version

- 1) General information about NACE standards; see data sheet IN 00.21
2) Only for instruments with Ex approval

Measuring element	
Type of measuring element	Bourdon tube, C-type or helical type
Material	Stainless steel 1.4404 (316L)
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 % ±1 % ±2 % of measuring span (grade A)
NS 100 [4"]	■ EN 837-1 Class 1.0 ■ ASME B40.100 ±1 % of measuring span (grade 1A)

Bourdon tube pressure gauge, stainless steel

For the process industry, panel mounting

Model PG23CP, NS 63 [2 1/2"] and 100 [4"]

WIKA data sheet PM 02.24



For further approvals,
see page 6

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive environments
- Chemical and petrochemical industries, oil and gas industry, power engineering and also water and wastewater technology
- Particularly suitable for use in wellhead control panels (WHCPs) and hydraulic power units (HPUs)

Special features

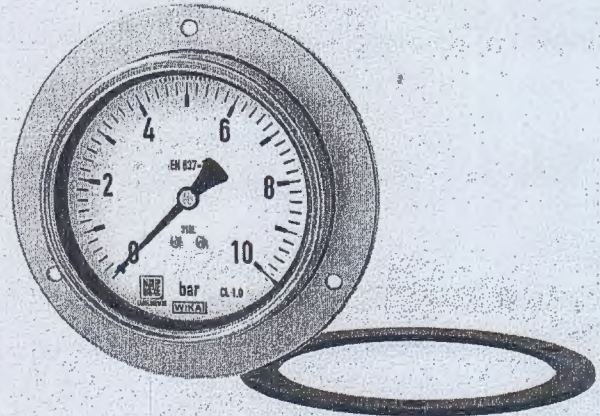
- Fully welded mounting ring to avoid the ingress of water into the control panel (ingress protection IP66)
- Completely from stainless steel
- Safety level "S1" or "S3" per EN 837-1 or per ASME B40.100
- Scale ranges from 0 ... 0.6 to 0 ... 1,600 bar or 0 ... 10 to 0 ... 20,000 psi
- QR code on dial links to instrument-specific information

Description

This high-quality Bourdon tube pressure gauge has been designed especially for the process industry.

Typical measuring points are located at operating units and operator panels, e.g. hydraulic power units (HPUs). A high-quality front bezel is used for secure mounting of the instrument. In most cases, the mounting situations require ingress protection IP66. For this reason, the sealing of the model PG23CP to the control panel is made using a fully welded mounting ring and a matched flat gasket.

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



Bourdon tube pressure gauge, model PG23CP, NS 100 [4"]

WIKA produces and qualifies the pressure gauge in accordance with the standards EN 837-1 and ASME B40.100.

Model PG23CP complies with at least safety level "S1", with blow-out device at the rear of the instrument. The safety level "S3" 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.

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.

WIKA data sheet PM 02.24 · 12/2024

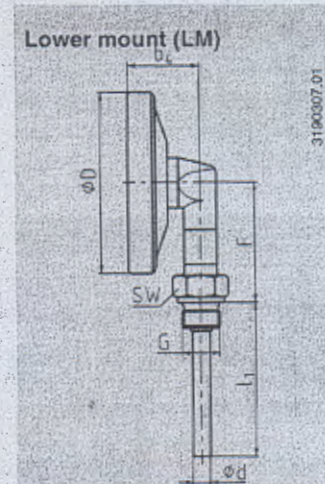
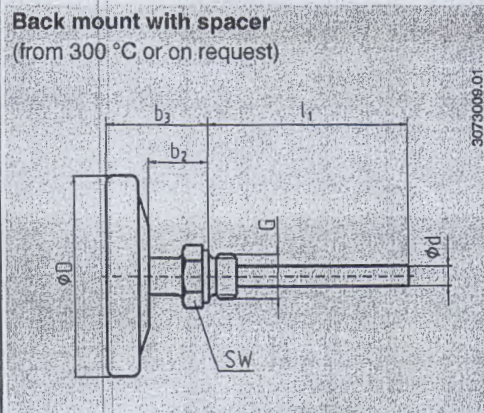
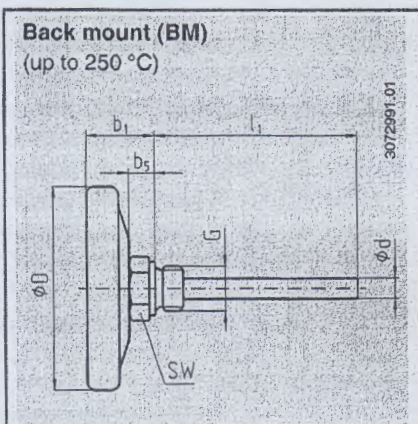
Page 1 of 11



Smart in sensing

Data sheets showing similar products:
Stainless steel, safety version; see data sheet PM 02.04
Bourdon tube pressure gauge with switch contacts; see data sheet PV 22.02
Monel version; see data sheet PM 02.33
Pressure gauge per EN 837-1 with mounted diaphragm seal; see data sheet DS 95.12

Dimensions in mm



NS	Dimensions in mm						Weight in kg			
	b ₁	b ₂	b ₃	b ₄	b ₅	Ø D	F	R	RD	U
25	16	-	-	-	6	25	-	0.035	-	-
33	16	-	-	-	6	33	-	0.040	-	-
40	21	-	-	-	8	40	-	0.050	-	-
50	21	-	-	-	8	50	-	0.060	-	-
63	29	30 ¹⁾	46	34	13	63	47	0.160	0.200	0.220
80	30	30 ¹⁾	47	36	13	80	56	0.200	0.240	0.270
100	35	30 ¹⁾	52	40	13	100	66	0.250	0.290	0.330
160	39	30 ¹⁾	57	42,5	13	160	96	0.450	0.490	0.560

1) from 300 °C or on request

R Back mount (BM)

RD Back mount with spacer

U Lower mount (LM)

Thermowell

In principle, the operation of a mechanical thermometer without a thermowell with low process-side loading (low pressure, low viscosity and low flow velocities) is possible.

However, in order to enable exchanging the thermometer during operation (e.g. instrument replacement or calibration) and to ensure a better protection of the instrument and also the plant and the environment, it is advisable to use a thermowell from the extensive WIKA thermowell portfolio.

For further information on the calculation of the thermowell, see Technical information IN 00.15.

Tel. ۰۲۱ ۶۶۴۷ ۹۴۸۶

Fax ۰۲۱ ۸۹۷۷ ۹۳۷۳

مدیریت ۰۹۱۲ ۸۴۴ ۸۷۶۳

www.Controltak.com

شبکه های مجازی / ارسال مستقیم ۰۹۲۵ ۴۴ ۷۹ ۱۱۰

Controltak@chmail.ir

Controltak@gmail.com

تلفگرام / سروش @Controltak

اینستاگرام Control-Tak

Scale ranges, measuring ranges ²⁾, error limit (EN 13190)

Scale graduation per WIKA standard

تماس 021 66479486

Scale range in °C	Measuring range in °C	Scale spacing in °C		Error limit ± °C	
		up to NS 63	from NS 80	up to NS 50	from NS 63
-30 ... +50	-20 ... +40	1	1	2	1
-20 ... +60	-10 ... +50	1	1	2	1
0 ... 60	10 ... 50	1	1	2	1
0 ... 80	10 ... 70	1	1	2	1
0 ... 100	10 ... 90	2	1	2	1
0 ... 120	10 ... 110	2	1	4	2
0 ... 160	20 ... 140	2	2	4	2
0 ... 200 ³⁾	20 ... 180	5	2	4	2
0 ... 250 ³⁾	30 ... 220	5	2	5	2.5
0 ... 300 ⁴⁾	30 ... 270	5	2		5
0 ... 400 ⁴⁾	50 ... 350	5	5		5
0 ... 500 ⁴⁾	50 ... 450	5	5		5

2) The limits of the measuring range are indicated on the dial by two triangular marks.
Only within this range is the stated error limit valid per EN 13190.

3) Not for NS 33

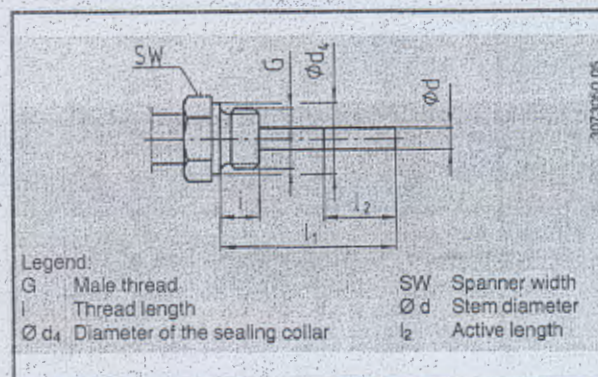
4) Not for NS 25 to NS 50

Connection designs

Standard design (male thread connection)

Standard insertion length $l_1 = 63, 100, 160, 200, 250$ mm

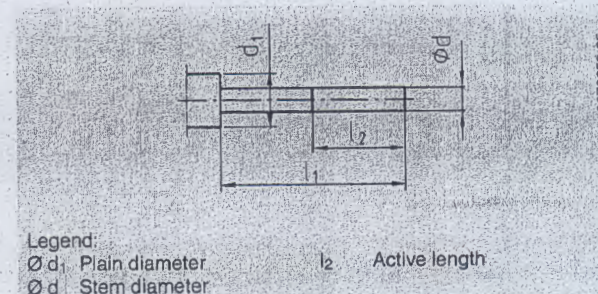
Nominal size	Process connection	Dimensions in mm				
NS	G	l	SW	Ø d ₁	Ø d	
25, 33	M8 x 1.25	8	12	-	4	
	G 1/8 B	8	12	-	4	
	G 1/4 B	8	17	-	4	
40, 50	M8 x 1.25	8	12	-	4	
	G 1/8 B	8	17	-	4	
	G 1/4 B	8	17	-	4	
	G 1/2 B	12	22	-	4	
63, 80, 100, 160	G 1/4 B	12	19	18	6 or 8	
	G 1/2 B	14	27	26	6 or 8	
	M18 x 1.5	12	24	23	6 or 8	
	1/2 NPT	19	22	-	6 or 8	



Design 1, plain stem (without thread)

Standard insertion length $l_1 = 45, 63, 100, 140, 160, 200, 240, 290$ mm

Nominal size	Dimensions in mm	
NS	d	$\varnothing d$
25, 33	8	4
40, 50	12	4
63, 80, 100, 160	18	6 or 8



Standard version

Measuring element

Bimetal coil

Nominal size in mm

25, 33, 40, 50, 63, 80, 100, 160

Connection designs

S Standard (male threaded connection)

- 1 Plain stem (without thread)
- 2 Male nut ¹⁾
- 3 Union nut ¹⁾
- 4 Compression fitting (sliding on stem) ¹⁾

¹⁾ Not for NS 25, 33, 40, 50

Model overview

Model	NS	Design
A52.025	25	Back mount (axial)
A52.033	33	
A52.040	40	
A52.050	50	
A52.063	63	
A52.080	80	Lower mount (radial)
A52.100	100	
A52.160	160	
R52.063	63	
R52.080	80	
R52.100	100	
R52.160	160	

Accuracy class

NS 25, 33: $\pm 5\%$ of scale range
NS 40, 50: 2 per EN 13190
NS 63, 80, 100, 160: 1 per EN 13190

Working range

Continuous loading: Measuring range per EN 13190
Short time (24 h max.): Scale range per EN 13190

Case, bezel ring, stem, process connection and spacer

Stainless steel

Elbow behind the case

Aluminium, only with lower mount version

Dial

Aluminium, white, black lettering

Window

Instrument glass
NS 33: polycarbonate

Pointer

NS 25, 33, 40: Aluminium, black
NS 50, 63, 80, 100, 160: Aluminium, black, adjustable pointer

Permissible operating pressure at the stem

NS 25, 33, 40, 50: max. 6 bar, static
NS 63, 80, 100, 160: max. 25 bar, static

Ingress protection

NS 25, 33, 40: IP54 per EN 60529 / IEC 529
NS 50, 63, 80, 100, 160: IP43 per EN 60529 / IEC 529

Options

- Scale range °F, °C/°F (dual scale)
- Other scale ranges
- Other connection types

Tel ۰۲۱ ۶۶۴۷ ۹۳۸۶

Fax ۰۲۱ ۸۹۷۷ ۹۳۷۳

مدیریت ۰۹۱۲ ۸۴۴ ۸۷۶۳

www.Controltak.com

شبكة های مجازی / ارسال استعلام ۰۹۳۵ ۲۴ ۷۹ ۱۱۰

Controltak@chmail.ir Controltak@gmail.com

تگزام / سرویس Controltak @

ایستگاه گرام Control-Tak

مقصد

تماس 021 66479486

Bimetal thermometer Model 52, industrial series

WIKA data sheet TM 52.01



for further approvals
see page 6

Applications

- A wide range of applications in machine building, vessel, piping and apparatus construction
- Heating technology

Special features

- Scale ranges from -30 ... +500 °C
- Large choice of nominal sizes from 25 ... 160 mm
- Case and stem from stainless steel
- 5 different connection designs

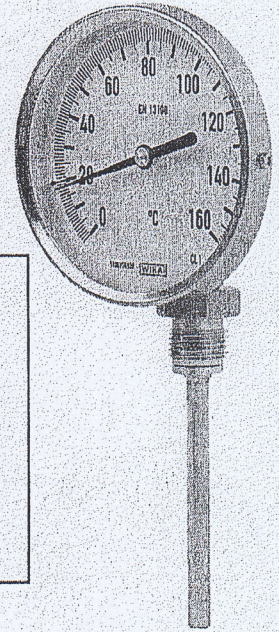
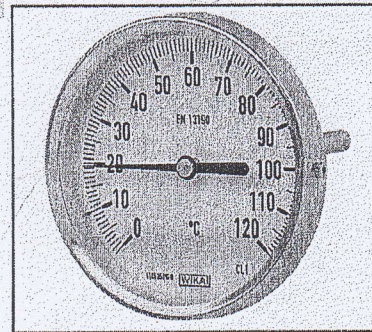


Fig. left: model A52.100, back mount

Fig. right: model R52.100, lower mount

Description

The model 52 bimetal thermometer is the entry-level model among process thermometers. The target markets of this thermometer are air-conditioning and machine building.

Model 52 is manufactured in accordance with EN 13190 and already offers a stainless steel case and accuracy class 1 for nominal sizes > 60 mm.

Especially noteworthy is the large number of stem lengths and nominal sizes. This enables the individual adaptation to the target applications.

Tel ۰۲۱ ۶۶۴۷ ۹۴۸۶

مدیریت ۰۹۱۲ ۸۴۴ ۸۷۶۳

شبکه های مجازی / ارسال استعلام ۰۹۳۵ ۴۴ ۷۹ ۱۱۰

تلفگرام / سروش @Controltak

Fax ۰۲۱ ۸۹۷۷ ۹۳۷۳

www.Controltak.com

Controltak@chmail.ir

Controltak@gmail.com

ایستگاهرام Control-Tak