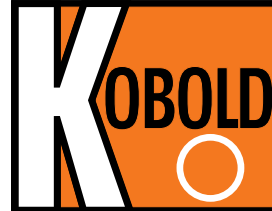




## All Stainless Steel Pressure Gauges with Bourdon Tube with or without Glycerine Filling

Nominal Sizes NG 63, 100, 160



measuring  
•  
monitoring  
•  
analysing



- Measuring range:  
-1 to 1000 bar
- Accuracy class:  
NG 63 : 1.6  
NG 100, NG 160 : 1.0
- Overrange protection  
1.3 times max. rating
- Option: glycerine-filling
- Stainless steel housing  
and movement



KOBOLD offices exist in the following countries:

**ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,  
CHINA, FRANCE, GREAT BRITAIN, ITALY, NETHERLANDS,  
POLAND, SWITZERLAND, USA, VENEZUELA**

KOBOLD Messring GmbH  
Nordring 22-24  
D-65719 Hofheim/Ts.  
☎ (06192) 299-0  
Fax (06192) 23398  
E-mail: [info.de@kobold.com](mailto:info.de@kobold.com)  
Internet: [www.kobold.com](http://www.kobold.com)

**Model:**  
MAN-RD  
MAN-RF  
MAN-RG



**Description**

The all stainless steel pressure gauges are ideal for the hard conditions and the resulting high demands on pressure measurement in production facilities in chemical industry and other comparable areas. Resistance to aggressive media and environments is achieved by using high-grade materials such as stainless steel both for the movement and the housing.

The glycerine filling provides wear-protection for the movement through damping, should pulsating pressures and

mechanical vibration occur. Pressure Gauges of the same version with other materials and for increased safety acc. EN 837-1 can be found in brochure P1.

**Application**

- Food and beverage industries (with diaphragm seal mounting)
- Chemical and petrochemical industries

**Technical Data**

**Version: NG 63**

Model	MAN RD2 (7)* 5...	RD2 (7)* 7...	RD2 (7)* 7...B	RD2 (7)* 7...V	Options
Nominal size	63				
Symbol					
Accuracy class	1.6				
Ranges	-1...0 bar to 0...600 bar Max. pressure: with static load: 3/4 of max. rating with alternating load: 2/3 of max. rating				
Overrange protection	short time 1.15...1.3times max. rating				
Housing	Stainless steel AISI 304				
Bezel	Bajonet ring AISI 304			front ring AISI 304	
Installation			panel clamp	front flange	
Glass	Plexiglass				
Dial	ABS, white with black lettering				
Pointer	Aluminium, black				
Movement	stainless steel				
Measuring element	stainless steel 316 L				
Connection	AISI 316				
- position	bottom		centre back		
- thread	G 1/4 male		G 1/4 male		
Filling					glycerine
Protection	IP 65				
Temperatures	max. +60 °C filled, +80 °C unfilled max. +60 °C				

\*(7) Version with glycerine filling



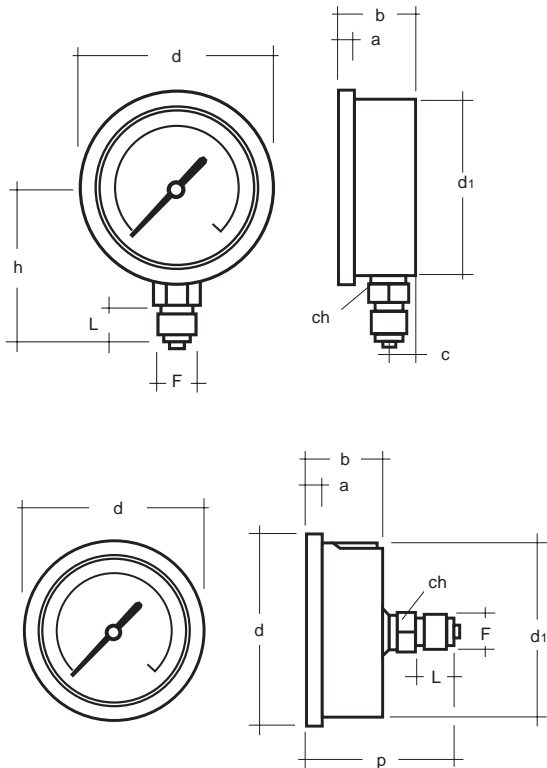
Version: NG 100, 160

Model	MAN	RF2 (7)* 6	RG2 (7)* 6	RF2 (7)* 8	RG2 (7)* 8	Options
Nominal size		100	160	100	160	
Symbol						
Accuracy class		1,0				
Ranges		-1...0 bar to 0...600 bar				
Max. pressure		with static load: max. rating with alternating load: 2/3 of max. rating				
Overrange protection		short time 1.15...1.3times max. rating				
Housing		1.4301				
Bezel		1.4301				
Glass		safety glass				panel mount ring
Dial		Alu, white				
Pointer		Alu, black				
Movement		stainless steel				
Measuring element		stainless steel				
Connection		1.4571		1.4571		
- position		bottom		rear, eccentric		
- thread		G 1/2 male		G 1/2 male		
Filling						glycerine-filling
Protection		IP 54 / IP 65 (with filling)				
Temperatures						
- medium		max. 80 °C				
- ambient		max. 60 °C				

\*(7) Version with glycerine filling



**Dimensions**  
Version NG 63



NG (mm)	a	b	c	d	d1	f
63	5.6	28	10	68	62.5	3.6

F	L	ch	h	p
G 1/4 male	13	14 x 9	55.3	54.8

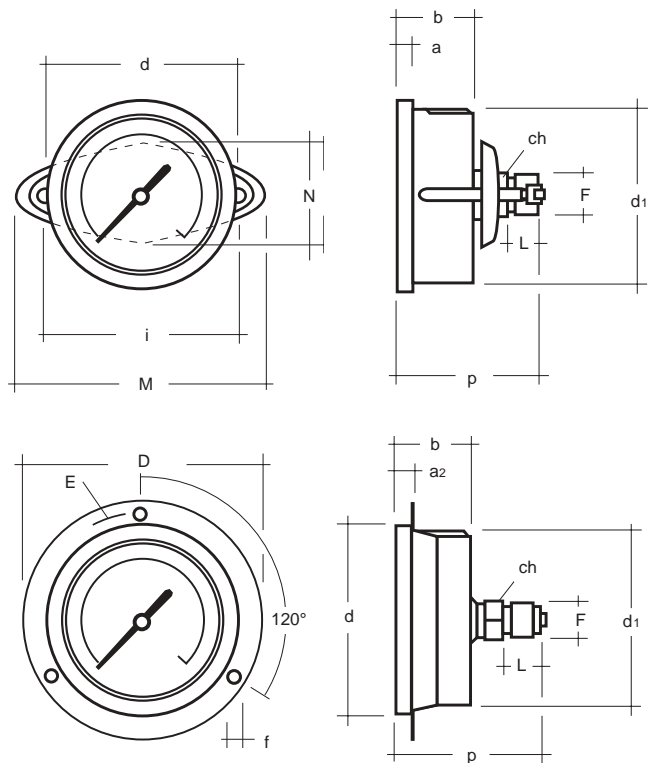


Table of dimensions for back connection

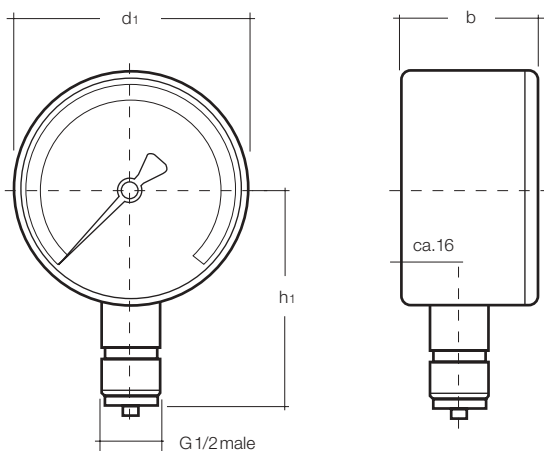
NG (mm)	a	a2	b	d	d1
63	5.6	6.6	28	68	62.6

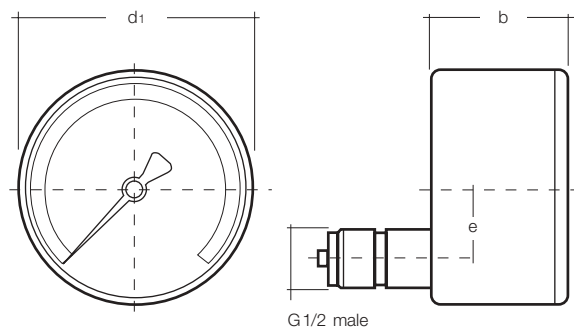
f	i	D	E	M	N
3.6	72	85	75	90	38

**Version NG 100, 160**

Series RG2 (7)\* 6...



Series RF2 (7)\* 8...



Housing diameter d1 ±1 (mm)	b	e	h1 ±1
100	50	32	87
160	50	50	118



**Order Details** (Example: MAN-RD25 A 315)

Model MAN-	RD25...	RD27...	RD27 B...	RD27 V...	RD75...	RD77...	RD77 B...	RD77 V...
Version	Connection bottom	Connection back	Panel clamp	Front ring	filled	unfilled	filled panel clamp	filled front ring
Ø (mm)	63							

**Order Details** (Example: MAN-RF26 A 315)

Model MAN-	RF26...	RG26...	RF28...	RG28...	RF76...	RG76...	RF78...	RG78...
Version	Connection bottom	Connection bottom	Connection back	Connection back	Connection bottom, filled	Connection bottom, filled	Connection back, filled	Connection back, filled
Ø (mm)	100	160	100	160	100	160	100	160

Indicating range	Code
-1200 to 0 mbar	...A 446*
-0,6 to 0 bar	...A 305*
-1 to 0 bar	...A 315
-1 to +1.5 bar	...A 515
-1 to +3 bar	...A 525
-1 to +5 bar	...A 535
-1 to +9 bar	...A 545
-1 to +15 bar	...A 555

Indicating range	Code
0 to 0.6 bar	...B 015*
0 to 1 bar	...B 025
0 to 1.6 bar	...B 035
0 to 2.5 bar	...B 045
0 to 4 bar	...B 055
0 to 6 bar	...B 065
0 to 10 bar	...B 075
0 to 16 bar	...B 085
0 to 25 bar	...B 095
0 to 40 bar	...B 105

Indicating range	Code
0 to 60 bar	...C 115
0 to 100 bar	...C 125
0 to 160 bar	...C 135
0 to 250 bar	...C 145
0 to 400 bar	...C 155
0 to 600 bar	...C 165
0 to 1000 bar	...D 175*

\*not for MAN-RD...

**Please refer to our brochure "A1"...**



**...for analytical measurement**



Zertifiziertes  
QM-System  
DIN EN ISO 9001  
Zertifikat-Nr. 01017

## All Stainless Steel Contact Pressure Gauges with Bourdon Tube with or without filling

Nominal Diameter NG 100, 160



measuring  
•  
monitoring  
•  
analysing



- Measuring range: -1 to 1000 bar
- Accuracy class: 1.0
- Option: glycerine-filling
- Stainless steel housing and movement
- Up to four alarm contacts possible



KOBOLD offices exist in the following countries:

**ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,  
CHINA, FRANCE, GREAT BRITAIN, ITALY, NETHERLANDS,  
POLAND, SWITZERLAND, USA, VENEZUELA**

KOBOLD Messring GmbH  
Nordring 22-24  
D-65719 Hofheim/Ts.  
☎ (06192) 299-0  
Fax (06192) 23398  
E-mail: info.de@kobold.com  
Internet: www.kobold.com

**Model:**  
MAN-RF  
MAN-RG



**Description**

Contact pressure gauges with electrical alarm contacts are suitable for controlling or regulating process conditions with help of the process pressure. The contacts open or close electrical circuits in relation to the position of the pointer on the pressure gauge. Contact pressure gauges with Bourdon tube system are used at process pressures of approximately 1 bar and upwards.

Gauges with filling are damped if pressure pulses or mechanical vibration occurs. This prolongs the service life and the gauge display remains largely vibration free. The location of the pressure connection at the bottom or back allows different methods of installation.

**Electric alarm contacts** are used as magnetic snap-action contacts, especially in harsh industrial conditions. The high contact pressure and the choice of different electrical contact materials enables high currents to be switched reliably. If the electrical switching capacity of the alarm contacts is exceeded or not reached, a relay is to be used to provide an appropriate current rating.

**Inductive alarm contacts** operate without physical contact and thus have no unfavourable effects on the pressure measuring system while having an unlimited service life. A control unit is always needed to operate these contacts. Contact pressure gauges with inductive alarm contacts can be used in potentially explosive atmospheres, provided that the appropriate regulations are complied with.

Pressure Gauges of the same version with other materials and for increased safety acc. EN 837-1 can be found in brochure P1.

**Application**

- Food and beverage industries (with diaphragm seal mounting)
- Chemical and petrochemical industries
- Industrial processing engineering

**Technical data**

**Version: Connection bottom**

Model.	MAN	RF 26 (M), (I)	RF 76 (M), (I)	RG 26 (M), (I)	RG 76 (M), (I)	Options
Nominal diam.		100		160		
Symbol						
Contact type	magnetic spring (M) or inductive contact (I)					
No. of contacts	1 - 4, depending on measuring range and housing diameter					
Filling		paraffin oil			paraffin oil	
Position of Cable socket	on side					
Cable connection	Pg 13.5					Connector DIN 43 650 DIN 43 651
Accuracy class	≤ 1.6 bar, class 1.6 acc. to DIN 16005 > 1.6 bar, class 1.0 acc. to DIN 16005					
Indicating range	-1...0 bar to 0...1000 bar					
Max. pressure	static load: to max. rating alternating load: 0.9 times to max. rating					
Housing	1.4301					
Bezel	1.4301					
Glass	safety glass					
Dial	Alu, white					
Pointer	Alu, black					
Movement	stainless steel					
Connection - position - thread	1.4571 bottom G 1/2 male					
Temperatures - medium - ambient	max. 80 °C max. 60 °C					
Protection DIN 40050	IP 54	P 65		IP 54	IP 65	





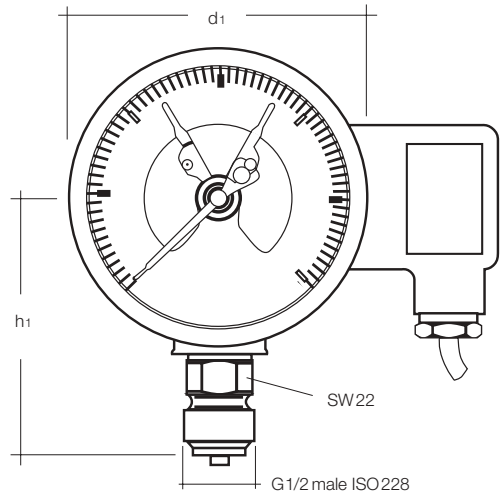
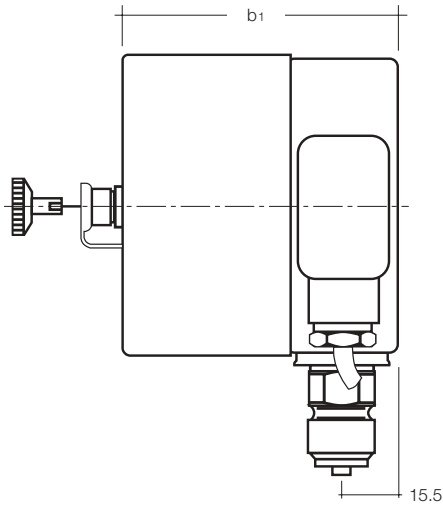
Version: Connection at rear

Model	MAN	RF28 (M), (I)...V	RF78 (M), (I)...V	RG28 (M), (I)...V	RG78 (M), (I)...V	Options
Nominal diameter		100		160		
Symbol with front ring						
Model	MAN	RF28 (M), (I)...	RF78 (M), (I)...	RG28 (M), (I)...	RG78 (M), (I)...	Options
Nominal diameter		100		160		
Symbol without front ring						
Contact type	magnetic spring (M) or inductive contact (I)					
No. of contacts	1 - 4, depending on measuring range and housing diameter					
Filling		paraffin oil		paraffin oil		
Position of Cable socket	on back					
Cable connection	Pg 13.5					Connector DIN 43 650
Accuracy class	≤ 1.6 bar, class 1,6 DIN 16005 > 1.6 bar, class 1 DIN 16005					DIN 43 651
Indicating range	-1...0 bar to 0...1000 bar					
Max. pressure	static load: to max. rating alternating load: 0.9times to max. rating					
Housing	1.4301					
Bezel	1.4301					
Mounting ring	front side					
Glass	safety glass					
Dial	Alu, white					
Pointer	Alu, black					
Movement	stainless steel					
Meas. element	stainless steel					
Connection	1.4571					
- position	rear eccentric					
- thread	G1/2 A					
Temperatures						
- medium	max. 80 °C					
- ambient	max. 60 °C					
Protection DIN 40050	IP 54	IP 65	IP 54	IP 65		



**Dimensions**

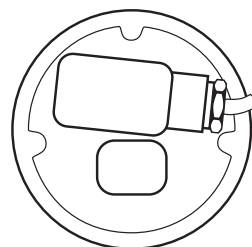
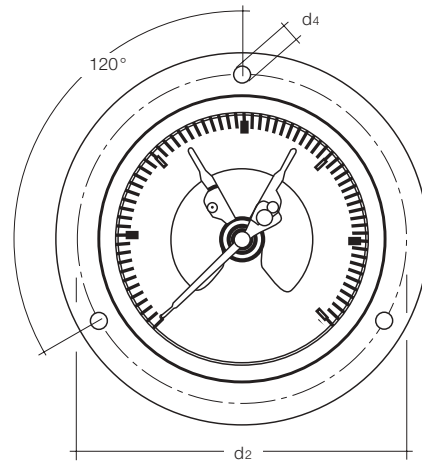
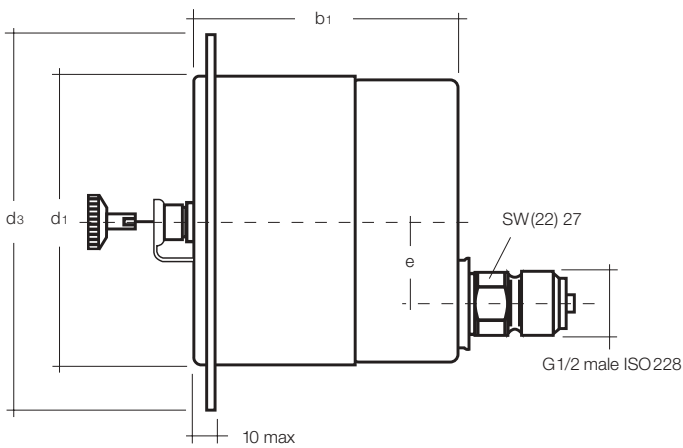
**Version: Bottom connection**



Housing diameter $d_1 \pm 1$	$b_1$	$h_1 \pm 1$
100	90	87
160	96	118

$b_1$  = up to two contacts

**Version: Back connection**







Cable socket at rear





Housing diameter $d_1 \pm 1$	$b_1$	$d_2$	$d_3$	$d_4$	$e$
100	90	116	132	4,8	32
160	96	178	196	5,8	50

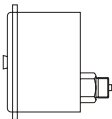
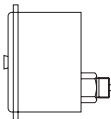
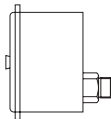
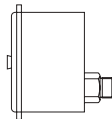
$b_1$  = up to two contacts



**Order details** (Example: MAN-RF26)

Model MAN-	RF26...	RG26...	RF76...	RG76...
				
Diameter (mm)	100	160	100	160
Filling	unfilled		paraffin oil filled	
Bottom connection				

Model MAN-	RF28...	RG28...	RF78...	RG78...
				
Diameter (mm)	100	160	100	160
Filling	unfilled		paraffin oil filled	
Back connection				

Model MAN-	RF28 V...	RG28 V...	RG78 V...	RF78 V...
				
Diameter (mm)	100	160	100	160
Filling	unfilled		paraffin oil filled	
Back connection				

**Order details** (Example: MAN-RF 26 B 015M1)

Indicating range	Code
0 to 0.6 bar	...B 015
0 to 1 bar	...B 025
0 to 1.6 bar	...B 035
0 to 2.5 bar	...B 045
0 to 4 bar	...B 055
0 to 6 bar	...B 065
0 to 10 bar	...B 075
0 to 16 bar	...B 085
0 to 25 bar	...B 095
0 to 40 bar	...B 105

Indicating range	Code
0 to 60 bar	...C 115
0 to 100 bar	...C 125
0 to 160 bar	...C 135
0 to 250 bar	...C 145
0 to 400 bar	...C 155
0 to 600 bar	...C 165

Indicating range	Code
0 to 1000 bar	...D 175

**Magnetic spring contacts**

Function/number	Code
1 N/O contact	...M1
1 N/C contact	...M2
2 N/O contacts	...M11
1 N/O, 1 N/C cont.	...M12
1 N/C, 1 N/O cont.	...M21
2 N/C contacts	...M22

**Inductive contacts**

Function/number	Code
1 N/O contact	...I1
1 N/C contact	...I2
2 N/O contacts	...I11
1 N/O, 1 N/C cont.	...I12
1 N/C, 1 N/O cont.	...I21
2 N/C contacts	...I22

Higher measuring ranges upon request

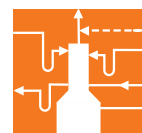
Explanation for the marking of instruments with magnetic spring contacts or inductive contacts: Example: **RF72...M21**  
 M: magnetic spring contact - the following figures are showing the switching action: 2: N/C, 1: N/O.  
 Number of figures = number of contacts. 1 figure = 1 contact aso.

For Diaphragm Seals and Pressure Gauges model DRM please see pages 15-18.

## Food and Beverage Industry



- Plants for the separation of yeast and salt suspensions as well as for grease and baking accessories
- Dosing plants for charging of continuous or discontinuous working paste kneading plants with meal flour, yeast and salt suspensions, sour knead, water, grease and other ingredients.
- Dosing systems to supplement milk and fruit juice during the manufacturing of children nutriments.
- Dosing systems for proportional blast of flavour in mixing drums dependant of the flow rate of cut tobacco.
- Plants for storage, load-carrying and for batch wise metering of food oil for the manufacturing of mayonnaise.



## Diaphragm Seals for Pressure Gauges



- Measuring ranges:  
0-1 bar to 0-1600 bar
- Cavity free measuring points  
for special hygienic conditions
- Protection of the measuring  
device against aggressive,  
highly viscous, solidifying or  
crystallizing media
- Protection against high  
process temperatures or  
change of temperatures
- Protection of the measuring  
device against vibrations by  
use of capillary tube
- Damping of pressure changes  
and pressure peaks



KOBOLD offices exist in the following countries:

**ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,  
 CHINA, FRANCE, GREAT BRITAIN, ITALY, NETHERLANDS,  
 POLAND, SWITZERLAND, USA, VENEZUELA**

KOBOLD Messring GmbH  
 Nordring 22-24  
 D-65719 Hofheim/Ts.  
 ☎ (06192) 299-0  
 Fax (06192) 23398  
 E-mail: info.de@kobold.com  
 Internet: www.kobold.com

**Model:**  
 DRM



**Description**

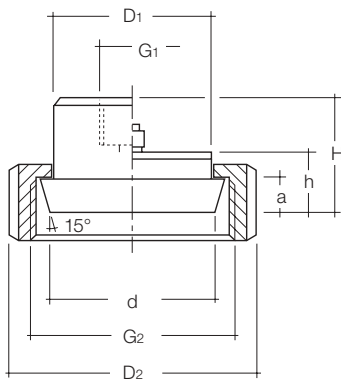
Diaphragm seals transmit the process pressure to the measuring instrument, with the diaphragm forming a hermetical seal between the medium and measuring instrument.

By choosing the correct diaphragm seal, application problems can be solved, which would not be possible without them.

**Applications**

- Food industries
- Chemical industry
- Engineering
- Machine construction

**Diaphragm seal**

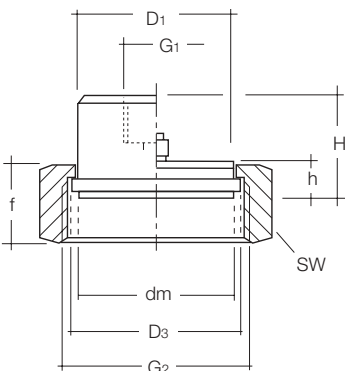


**Diaphragm seal with union nut to DIN 11851**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube. Also available for electronic pressure sensors or in combination with digital pressure gauges.

Range: 0 - 1 bar to 0 - 40 bar  
 Temperature range: -10°C to +200°C (not with electr. transm.) unless capillary is used  
 Material: st. st. 1.4301, st. st. 1.4571, others on request  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: compatible with foodstuffs

Model for direct mounting	Model for capillary tube	G <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	G <sub>1</sub>	D <sub>N</sub>	d	a	h	H
DRM-602R25	DRM-603R25	Rd52x1/6"	35	63	G 1/2	25	40	8	16	31
DRM-602R32	DRM-603R32	Rd58x1/6"	41	70	G 1/2	32	46	11	16	32
DRM-602R40	DRM-603R40	Rd65x1/6"	48	78	G 1/2	40	52	11	16	32
DRM-602R50	DRM-603R50	Rd78x1/6"	61	92	G 1/2	50	64	11	16	32
100°C	200°C	max. medium temperature								

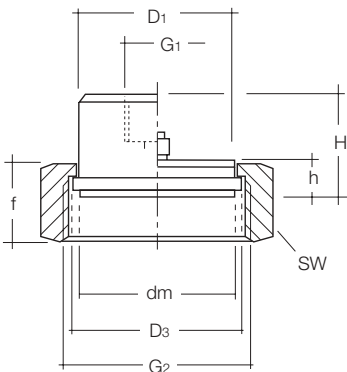


**Diaphragm seal with union nut to IDF standard**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube. Also available for electronic pressure sensors or in combination with digital pressure gauges.

Range: 0 - 1 bar to 0 - 100 bar  
 Temperature range: -10°C to +200°C (not with electr. transm.) unless capillary is used  
 Material: st. st. 1.4301, st. st. 1.4571, others on request  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: compatible with foodstuffs

Model for direct mounting	Model for capillary tube	G <sub>2</sub> IDF	D <sub>1</sub> , dm	D <sub>3</sub>	G <sub>1</sub>	SW	f	h	H
DRM-604R25	DRM-605R25	1"	29.5	33.5	G 1/2	47	30	13	31
DRM-604R40	DRM-605R40	1 1/2"	42.5	47	G 1/2	62	30	13	30,5
DRM-604R50	DRM-605R50	2"	56	60	G 1/2	77	30	13	30,5
100°C	200°C	max. medium temperature							

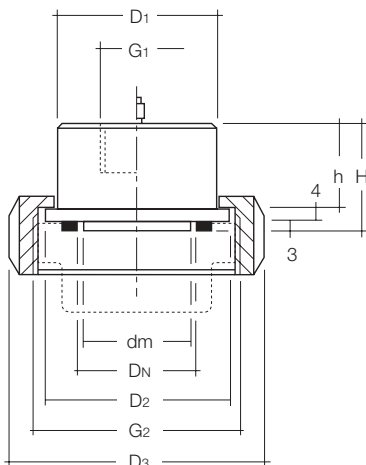


**Diaphragm seal with union nut to APV-RJT standard**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube. Also available for electronic pressure sensors or in combination with digital pressure gauges.

Range: 0 - 1 bar to 0 - 100 bar  
 Temperature range: -10°C to +200°C (not with electr. transm.) unless capillary is used  
 Material: st. st. 1.4301, st. st. 1.4571, others on request  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: compatible with foodstuffs

Model for direct mounting	Model for capillary tube	G2	D1, dm	D3	G1	HEX	f	h	H
DRM-614R25	DRM-615R25	1"	33	41	G 1/2	57	20	12	48
DRM-614R40	DRM-615R40	1 1/2"	45	54	G 1/2	72	21	12	48
DRM-614R50	DRM-615R50	2"	57.5	67	G 1/2	86	22	12	48
100°C	200°C	max. medium temperature							

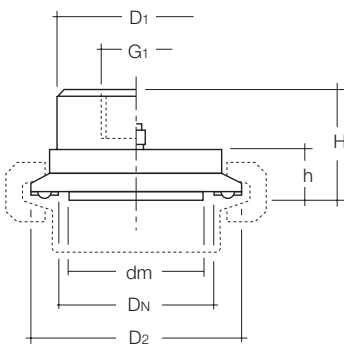


**Diaphragm seal with union nut to SMS standard**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube. Also available for electronic pressure sensors or in combination with digital pressure gauges.

Range: 0 - 1 bar to 0 - 10 bar  
 Temperature range: -10°C to +200°C (not with electr. transm.) unless capillary is used  
 Material: st. st. 1.4301, st. st. 1.4571, others on request  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: compatible with foodstuffs

Model for direct mounting	Model for capillary tube	G2 SMS-Standard	D1	D2	dm	G1	DN	D3	h	H
DRM-610R40	DRM-611R40	1 1/2"	47.5	55	34.5	G 1/2	11/2"	74	20	27
DRM-610R50	DRM-611R50	2"	60	65	45.5	G 1/2	2"	84	20	27
100°C	200°C	max. medium temperature								

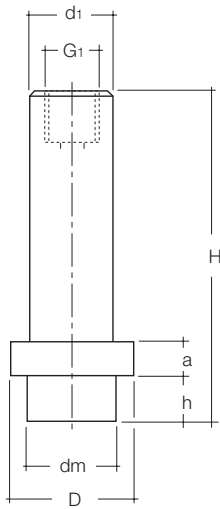


**Diaphragm seal with Tri Clamp connection**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube. Also available for electronic pressure sensors or in combination with digital pressure gauges.

Range: 0 - 2.5 bar to 0 - 10 bar  
 Temperature range: -10°C to +200°C (not with electr. transm.) unless capillary is used  
 Material: st. st. 1.4301, st. st. 1.4571, others on request  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: compatible with foodstuffs

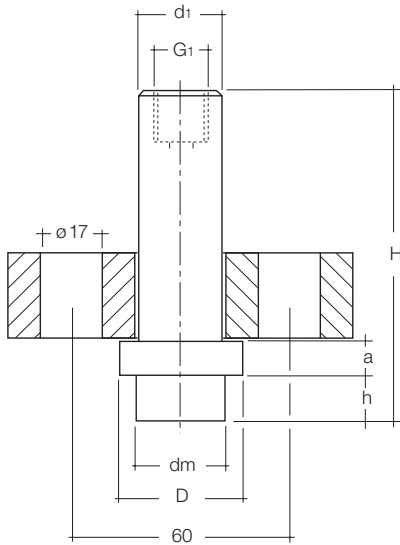
Model for direct mounting	Model for capillary tube	DN	D1	D2	dm	G1	h	H
DRM-612F40	DRM-613F40	1 1/2"	42.5	50.4	34.5	G 1/2	10.5	25
DRM-612F50	DRM-613F50	2"	51	64	45.5	G 1/2	10.5	25
100°C	200°C	max. medium temperature						



**Diaphragm seal for homogenizing machines without mounting flange**  
for direct mounting to pressure gauges dia. 63, 100 and 160.

Range: 0 - 100 bar to 0 - 1000 bar  
 Temperature range: 0 °C to +120 °C (calibration temperature +85 °C)  
 Material: st. st. 1.4301, st. st. 1.4571  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: not available  
 Filling fluid: MF8 (foodstuff-compatible) recommended

Model	D	dm	d1	a	h	H	g1
DRM-189F23	34.5	23.8	22	10	12.5	90.5	G 3/8

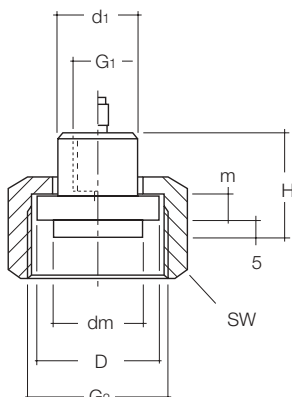


**Diaphragm seal for homogenizing machines with rectangular flange**  
for direct mounting to pressure gauges dia. 63, 100 and 160.

Range: 0 - 100 bar to 0 - 1000 bar  
 Temperature range: 0 °C to +120 °C (calibration temperature +85 °C)  
 Material: st. st. 1.4301, st. st. 1.4571  
 Diaphragm: flush mounted, material 1.4571  
 Rectangle flange: 1.4301  
 Max. length of capillary tube: not available  
 Filling fluid: MF8 (foodstuff-compatible) recommended

Model	D	dm	d1	a	h	H	G1
DRM-189/1F23	33.3	23.8	22	10	12.5	86.5	G 3/8

from 1000 bar a = 10 mm, rectangular flange 95 x 43 x 25



**Diaphragm seal with union nut**

for direct mounting to pressure gauges dia. 63, 100 and 160 or capillary tube.

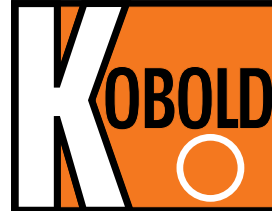
Range: 0 - 100 bar to 0 - 1600 bar  
 Temperature range: 0 °C to +120 °C  
 Material: st. st. 1.4301, st. st. 1.4571  
 Diaphragm: flush mounted, material 1.4571  
 Max. length of capillary tube: up to 10 m, if required with armour  
 Filling fluid: MF8 (foodstuff-compatible) recommended

Model for direct mounting	Model for capillary tube	G2	G1	SW	dm	D	d1	m	H
DRM-616R45	DRM-617R45	M 45x2	G 3/8	55	23.8	33.3	22	6	27
100 °C	120 °C	max. medium temperature							





## Inline Diaphragm Seal for Bourdon Tube Pressure Gauges and Pressure Sensors



measuring  
•  
monitoring  
•  
analysing



- Cavity free version
- For highly viscous applications
- Easily cleaning without removal
- Temperature medium up to 80°C (1/2 h up to 140°C)
- Option: Scraper qualified



KOBOLD offices exist in the following countries:

**ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,  
CHINA, FRANCE, GREAT BRITAIN, ITALY, NETHERLANDS,  
POLAND, SWITZERLAND, USA, VENEZUELA**

KOBOLD Messring GmbH  
Nordring 22-24  
D-65719 Hofheim/Ts.  
☎ (06192) 299-0  
Fax (06192) 23398  
E-mail: info.de@kobold.com  
Internet: www.kobold.com

**Model:**  
DRM-5



**Description**

The housing of the diaphragm seal is manufactured in one piece.

The diaphragm, which moves in the same direction as the flow, is welded at both sides to the seal body. The pressure in the process medium in front of the diaphragm is transmitted via the filling to the pressure indicator.

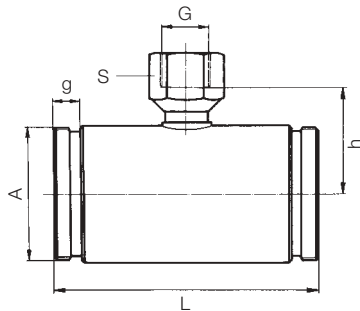
Predominantly dead-zone-free transition to the connections and a flow friendly design prevent depositing of the medium.

The cleaning of the seal is possible without removal from the pipe system.

**Applications**

- Food industry
- Beverage industry
- Pharmaceutical industry

**Dimensions**

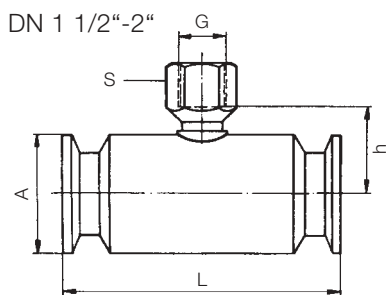


**Inline diaphragm seal sterile connection ISO for direct mounting and with capillary tube**

Range: 1.6..40 bar to 2.5..40 bar (dependant on the pipe dia.)  
 Temperature range: up to 80 °C (1/2 h up to 140 °C)  
 Housing: 1.4571  
 Diaphragm tube: 1.4571 (DN 15/20), 1.4571 (DN 25/40), 1.4404 resp. 1.4435 (DN 50)  
 Socket connection: 1.4301 (DN 15/20), 1.4435 (DN 25, 40, 50)  
 Filling liquid: following operating conditions

Model for direct mounting	Model for capillary tube	DN	A	L	h	G	g	S
DRM-500D15	DRM-501D15	15	M30 x 2	130	26	G 1/4	12	17
DRM-500D20	DRM-501D20	20	M36 x 2	120	30	G 1/4	12	17
DRM-500D25	DRM-501D25	25	M42 x 2	120	33	G 1/2	12	27
DRM-500D40	DRM-501D40	40	M56 x 2	110	39	G 1/2	14	27
DRM-500D50	DRM-501D50	50	M68 x 2	100	45	G 1/2	14	27

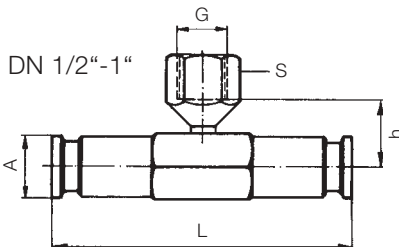
DN	for tube	O-ring	weight kg	Inner form
15	26.9 x 2.0	18.5 x 3.0	0.6	Square
20	33.7 x 2.0	25.0 x 3.0	0.8	Square
25	48.3 x 2.0	30.0 x 3.0	0.9	Hexagonal
40	60.3 x 2.6	45.0 x 3.0	1.3	Hexagonal
50	88.9 x 2.6	55.0 x 3.0	1.6	Hexagonal



**Inline diaphragm seal with Tri Clamp connection ISO 2852 for direct mounting**

Range: 1.6..40 bar to 2.5..40 bar (dependant on the pipe dia.)\*  
 Temperature range: up to 80 °C (1/2 h up to 140 °C)  
 Housing: 1.4435  
 Diaphragm tube: 1.4435 (DN 15/20/25), 1.4404 resp. 1.4435 (DN 40/50)  
 Socket connection: 1.4301 (DN 15/20/25), 1.4435 (DN 40/50)  
 Filling liquid: following operating conditions

\*The range is dependant on the pipe diameter and the pressure sensor.



Model for direct mounting	DN	A	L	h	G	S	Weight kg	Inner form
DRM-502D15	1/2"	25	140	24	G 1/2	17	0.5	Square
DRM-502D20	3/4"	25	120	27	G 1/2	27	0.5	Square
DRM-502D25	1"	50.5	120	36	G 1/2	27	1.6	Square
DRM-502D40	1 1/2"	50.5	120	36	G 1/2	27	1.2	Hexagonal
DRM-502D50	2"	64	100	45	G 1/2	27	1.3	Hexagonal