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

Digital Pressure Gauge

with Temperature Measurement
Battery Powered or IO-Link

measuring • monitoring • analysing

MAN-SC/-LC

Display rotatable in 90° steps

2 x 180°

With optional rubber protection sleeve

IO-Link

- 5-digit LCD display
- Capacitive touchpads
- NTC temperature sensor
- Peak memory
- Analogue output, frequency output, switch output (MAN-LC)
- IO-Link function (MAN-LC)
- Up to 2 relays possible (MAN-LC)
- Selectable measuring units
- Tara function
- Stainless steel process connection
- Assembly of numerous diaphragm seals possible
- Rubber protection sleeve for tough operating conditions
- MAN-SC: power supply via 9 V block battery
- Battery life: up to 2 ½ years
- MAN-LC: external power supply via 24 V_{DC}

P1

KOBOLD companies worldwide:
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Description

The intelligent KOBOLD digital manometers are used for the display, monitoring and remote transmission of pressure-dependent operating sequences in machines and installations. The pressure to be measured is sensed by a ceramic, or metal sensor, and displayed by the electronics. With the MAN-LC version, two universally configurable signal outputs are available. Instead of outputs, the optionally available relay board may drive up to two potential-free relays. The values are shown on a five-digit LCD display. The electronics module can be rotated at 90° intervals. In the pressure switch design with integrated relay, the switching point and hysteresis can be set on the membrane keypad. A wide range of process connections are available as an option. The process connection can be axially rotated as desired, after loosening the counter nut.

Examples of Application

- Mechanical engineering and plant construction
- Pumps and compressors
- Environmental technology
- Hydraulics and pneumatics
- Service jobs
- Process industry
- Load Capacity Measuring (e. g. Tensile Load Measurement with Pull Tester)
- Temperature measurement*

Technical Details

General

Display:	5-digit alpha-numeric reflective LC-display, 14-segment »better readability under direct sunlight and low ambient light« (MAN-LC with white backlight and transflective display) Digit height 16 mm Shows Primary Value (pressure "P") and Secondary Value (Force "F") permanent or alternating (Change time: 5 s). Display Menu Level 3-digit, 7-segment, digit height 4.5 mm
Programming buttons:	capacitive (touchpads)
Housing:	Ø 80 mm, PA6 GK30, front display polycarbonate
Measuring ranges:	-1...0...+1600 bar (special measuring ranges on request)
Cutoff values*:	See separate table "Cutoff values"

* Factory Setting of Cutoff values bidirectionally around the zero point. The Cutoff Value may be deactivated in the menu.

Accuracy class [1]:	0.5 at reference conditions [2] ±1 digit

[1] Including non-linearity, hysteresis, zero-point- and end-value deviation (corresponds to measured error per IEC 61298-2).

[2] Reference conditions:
temperature 21 °C, air pressure 860 ... 1060 mbar, humidity < 90 % r. F. (non-condensing)

Repeatability:	±0,2 % of reading

Temperature error of the pressure/force value at -20 ... +85 °C:

Temperature influence (overall):	±0,25 % of full scale / 10 K
Temperature coefficient:	Zero-point ≤ ±0.2 % of full scale / 10 K Range ≤ ±0.1 % of full scale / 10 K
Long term stability:	≤ ± 0.2 % of full scale / year at reference conditions
Adjustability of zero-point:	≤ ±100 % of full scale (via Tara function)
Overload range:	3 x PN (to 40 bar) 2 x PN (60 ... 160 bar) 1.5 x PN (250 ... 1600 bar)
Power-up time:	ca. 5 s
Response time:	0.5 ... 1 s (with display refresh time 1 s)
Conversion rate internal:	10 per second
Display and outputs refresh:	1 ... 10 s

Software functions

* for selected measuring ranges (see ordering table)

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Technical Details (continued)

Function	MAN-SC	MAN-LC
Min/Max Peak memory	yes	yes
Sleep mode (Automatic power-off)	yes	no
Password protection	yes	yes
Reset to factory setting	yes	yes
Measuring units (customer selectable)	kPa, MPa, bar, mbar, psi, kN, N, torr, inWC, mmWC, inHg, USR (user-defined measuring unit)	
Force measurement	yes	yes
Tara function	yes	yes
Control input (for MIN-/MAX-memory reset)	no	yes

Calculation of Force Value F: The measured Force Value is calculated from the measured pressure value and a programmable reference area:
Force [N] = 10 x AREA x Pressure Measured Value
with AREA = Reference Area in [mm²]
and Pressure Measured Value in [bar]

Temperature measurement
- Sensor type: NTC
- Measuring range: -30 ... +85 °C
- Accuracy: ±1,5 °C in the range -10 ... +80 °C)
- t_{90}: approx. 90s
- Meas. cycle: approx. 45s

Rubber protection sleeve (optional): thermoplastic Elastomer, serves as protection against impact

Supply voltage

MAN-LC: external supply 18 – 32 V_{DC} via M12x1 connector
current consumption max. 200 mA (without outputs)

MAN-SC: battery 6LR61 (nominal voltage 9 V)

Battery status display: yes, via 4 segments

Sleep mode: programmable (for maximising battery lifespan)

Sleep mode	Description	Power consumption*	Note
-	-	~55 µA	Normal measuring mode
0	LC-Display is switched off.	~45 µA	Marginal energy saving via display switch-off. Measurement keeps running.
1	LC-Display is switched off and the measurement stopped.	~20 µA	Fast operational readiness after wake-up (1 to 2 s).
2	Unit in deep sleep mode. No measurement	~13 µA	Unit starts fresh after wake-up. Operational readiness after ca. 5 s. Suitable for storage with installed battery.

* Average current consumption with a 9 V battery

Battery lifespan

Battery type 6LR61 (9 V)	Lifespan (typical at 20°C)
Alkaline 600 mAh	up to 9000 h (~ 1 year)*
Lithium 1300 mAh	up to 22 500 h (~2.5 years)*

* Self battery-discharging not considered. The battery capacity reduces with low ambient temperatures.

Wetted parts

Sensor: ceramic (Al_2O_3) (meas. range ≤ 700 bar)
st. st. (1.4571) (meas. range >700 bar)

Gasket/Temperature of medium

Gasket	Measuring range	Temperature of medium
none, stainless steel welded	> 700 bar	-30 ... +85 °C
NBR (standard)	≤ 700 bar	-30 ... +85 °C
FKM, FFKM (optional)	≤ 700 bar	-30 ... +85 °C
EPDM (optional)	≤ 700 bar	-30 ... +85 °C (+135 °C with cooling fin)

Process connections stainless steel (1.4305)

Norm	Thread size
EN837	G ¼ B (standard)
	G ½ B
ANSI/ASME B1.20.1	¼" NPT
	½" NPT
For other process connections see table Order Details	

Ambient temp.: -10 ... +60 °C
Storage temp.: -30 ... +80 °C

Technical Details (continued)

Allowed relative humidity: < 90 %, non-condensing

Protection class (acc. IEC 60529): IP 65

Electrical connection: M12 x 1 round connector (5 or 8-pin)

Electrical outputs (MAN-LC)

Frequency output (OUT1/OUT2): Push-pull, max. 1000 Hz, free scalable, linear to Pressure/Force
Accuracy ≤ ±1,5 % of output frequency

Alarm output (OUT1/OUT2): NPN, PNP, Push-Pull
configurable max. 30 V_{DC},
max. 200 mA short-circuit proof

Analogue output (OUT2): active, 3-wire, free scalable
0(4) - 20 mA max. load 500 Ω
or
0(2) - 10 V_{DC}, (RLoad ≥ 50 kΩ,
load error ≤ 1 %)

Control input (OUT1): MIN/MAX RESET
OUT1, High active
$0 < U_{Low} < 10 V_{DC}$
$15 V_{DC} < U_{High} < Vs$

IO-Link (OUT1): Manufacturer ID: 1105 (decimal), 0x0451 (hex)
Name of manufacturer: Kobold Messring GmbH
IO-Link specification: V1.1
Bit rate: COM2
Minimal cycle time: 10 ms
SIO-Mode: yes (OUT1 in configuration IO-Link)
Block parameterisation: yes
Operational readiness: 10 s
Max. cable length: 20 m

Configuration of outputs MAN-LC...

Output 1 (OUT 1, PIN 4)	Output 2 (OUT 2, PIN 2)
	Analogue output 4 - 20 mA
	Analogue output 0 - 20 mA
	Analogue output 2 - 10 V
	Analogue output 0 - 10 V
Alarm output NPN / PNP / PP	Alarm output NPN / PNP / PP
Frequency output PP	Frequency output PP
Communication mode KofiCom	
Communication mode IO-Link	
Control input	
SPDT contact (optional with ZUB-MANS-KON2)	SPDT contact (optional with ZUB-MANS-KON2)

Shock resistance DIN EN 60068-2-27:2010: 20 g (11 ms)

Vibration resistance DIN EN 60068-2-6:2008: 5 g (10 … 2000 Hz)

Weight (connection G ¼): MAN-SC: ca. 360 g
MAN-LC: ca. 310 g
(Weights of other process connections deviate)

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Cutoff values (factory setting)

Order code	Measuring range	Cutoff
AC	-0.6 ... 0 bar	±0.003 bar
AD	-1 ... 0 bar	±0.005 bar
A0	-1 ... +0.6 bar	±0.008 bar
A1	-1 ... +1.5 bar	±0.0125 bar
A2	-1 ... +3 bar	±0.02 bar
A3	-1 ... +5 bar	±0.02 bar
A4	-1 ... +9 bar	±0.02 bar
A5	-1 ... +15 bar	±0.02 bar
B1	0 ... +0.6 bar	0.003 bar
B2	0 ... +1 bar	0.005 bar
B3	0 ... +1.6 bar	0.008 bar
B4	0 ... +2.5 bar	0.0125 bar
B5	0 ... +4 bar	0.02 bar
B6	0 ... +6 bar	0.02 bar
B7	0 ... +10 bar	0.02 bar
B8	0 ... +16 bar	0.02 bar
B9	0 ... +25 bar	0.02 bar
B0	0 ... +40 bar	0.02 bar
C1	0 ... +60 bar	0.03 bar
C2	0 ... +100 bar	0.03 bar
C3	0 ... +160 bar	0.03 bar
C9	0 ... +200 bar	0.03 bar
C4	0 ... +250 bar	0.03 bar
C5	0 ... +400 bar	0.4 bar
C6	0 ... +600 bar	0.4 bar
C0	0 ... +700 bar	0.4 bar
D7	0 ... +1000 bar	1 bar
D8	0 ... +1600 bar	1 bar
EC	-20 ... 0 inHg	±0.003 inHg
ED	-30 ... 0 inHg	±0.0003 inHg
E0	-30 ... +15 inHg/psi	±0.2 inHg/psi
E1	-30 ... +30 inHg/psi	±0.2 inHg/psi
E2	-30 ... +60 inHg/psi	±0.2 inHg/psi
E3	-30 ... +100 inHg/psi	±0.2 inHg/psi
E4	-30 ... +150 inHg/psi	±0.2 inHg/psi
F1	0 ... +10 psi	0.2 psi
F2	0 ... +15 psi	0.2 psi
F3	0 ... +30 psi	0.2 psi
F4	0 ... +50 psi	0.2 psi
F5	0 ... +60 psi	0.2 psi
F6	0 ... +100 psi	0.3 psi
F7	0 ... +150 psi	0.3 psi
F8	0 ... +200 psi	0.3 psi
F9	0 ... +300 psi	0.3 psi
F0	0 ... +500 psi	0.4 psi
G1	0 ... +1000 psi	0.8 psi
G2	0 ... +1450 psi	0.8 psi
G3	0 ... +2000 psi	0.8 psi
G4	0 ... +2300 psi	0.8 psi
G5	0 ... +3000 psi	0.8 psi
G6	0 ... +3600 psi	0.8 psi
G7	0 ... +5000 psi	0.8 psi
G8	0 ... +5800 psi	0.8 psi
G9	0 ... +7500 psi	0.8 psi
G0	0 ... +10000 psi	1.5 psi
H1	0 ... +15000 psi	1.5 psi
H2	0 ... +20000 psi	1.5 psi

Order Details (Example: **MAN-SC10G2A3000**)

Model	Output	Mechanical connection	Measuring range [1]	Electrical connection	Sensor gasket	Special version
MAN-SC (digital manometer with ceramic sensor, 9 V battery)	**10** = without	**Meas. range -1 ... +1600 bar:** **G4** = G ½ male **Meas. range -1 ... +1000 bar:** **G2** = G ¼ male **N2** = ¼" NPT male **N4** = ½" NPT male **Meas. range -1 ... +700 bar:** **K2** = Connection bottom G ¼ male, with cooling fins **K4** = Connection bottom G ½ male, with cooling fins **C2** = Connection bottom ¼" NPT, with cooling fins **C4** = Connection bottom ½" NPT, with cooling fins **M1** = Connection bottom M16 x 1.5 male **M2** = Connection bottom M20 x 1.5 male **M6** = Connection M6 female with O-ring groove **U7** = Connection bottom 7/16-20 UNF DIN 3866 **D2** = Connection bottom G ¼ male DIN 3852-E + FPM gasket **YY** = on request **DM**[2] = Assembly with diaphragm seal	**AC** = -0,6 ... 0 bar **AD** = -1 ... 0 bar **A0** = -1 ... +0,6 bar **A1** = -1 ... +1,5 bar **A2** = -1 ... +3 bar **A3** = -1 ... +5 bar **A4** = -1 ... +9 bar **A5** = -1 ... +15 bar **B1** = 0 ... +0,6 bar **B2** = 0 ... +1 bar **B3** = 0 ... +1,6 bar **B4** = 0 ... +2,5 bar **B5** = 0 ... +4 bar **B6** = 0 ... +6 bar **B7** = 0 ... +10 bar **B8** = 0 ... +16 bar **B9** = 0 ... +25 bar **B0** = 0 ... +40 bar **C1** = 0 ... +60 bar **C2** = 0 ... +100 bar **C3** = 0 ... +160 bar **C9**[3] = 0 ... +200 bar **C4** = 0 ... +250 bar **C5** = 0 ... +400 bar **C6** = 0 ... +600 bar **C0**[3] = 0 ... 700 bar **D7**[8] = 0 ... 1000 bar **D8**[8] = 0 ... 1600 bar **EC** = -20 ... 0 inHg **ED** = -30 ... 0 inHg **E0**[4] = -30 ... +15 inHg/psi **E1**[4] = -30 ... +30 inHg/psi **E2**[4] = -30 ... +60 inHg/psi **E3**[4] = -30 ... +100 inHg/psi **E4**[4] = -30 ... +150 inHg/psi **F1** = 0 ... +10 psi **F2** = 0 ... +15 psi **F3** = 0 ... +30 psi **F4** = 0 ... +50 psi **F5** = 0 ... +60 psi **F6** = 0 ... +100 psi **F7** = 0 ... +150 psi **F8** = 0 ... +200 psi **F9** = 0 ... +300 psi **F0** = 0 ... +500 psi **G1** = 0 ... +1000 psi **G2** = 0 ... +1450 psi **G3** = 0 ... +2000 psi **G4** = 0 ... +2300 psi **G5** = 0 ... +3000 psi **G6** = 0 ... +3600 psi **G7** = 0 ... +5000 psi **G8** = 0 ... +5800 psi **G9** = 0 ... +7500 psi **G0** = 0 ... +10000 psi **H1**[8] = 0 ... +15000 psi **H2**[8] = 0 ... +20000 psi	**0** = without	**0** = NBR (standard, from 700 bar fully welded without gasket) **1** = FKM **2** = EPDM **3** = FFKM **4** = PTFE	**0** = without **L**[5] = 9 V lithium battery **A**[6] = absolute pressure 0...1,0 to 0...10 bar **S** = oil and fat free for oxygen **Y** = special (please specify in writing)
	20[7] = as code 10, additionally with temperature measurement					
MAN-LC (digital manometer with backlight, 18 - 32 V_{DC} supply)	**30** = with 2 configurable outputs (OUT1, OUT2)			**S** = M12 x 1 connector		
	40[7] = as code 30, additionally with temperature measurement					

[1] Custom selectable measuring units: kPa, MPa, bar, mbar, psi, kN, N, torr, inWC, mmWC, inHg, USR
[2] Diaphragm seal model and application data to be specified in clear text. Application Index on the last two pages of this data sheet to be filled out, or discuss with your local KOBOLD technical sales office. For a summary of diaphragm seal models and possible ranges, see page 11 and following. For dimensional details consult our DRM data sheet at www.kobold.com.
In case of ordering a remote diaphragm seal with capillary and for mounting with wall mounting bracket MZB-709… acc. to DIN 16286, an additional ordering of the adaptor model MZB-708/… acc. to DIN 16281 for factory sided integration in diaphragm seal assembly is mandatory.
[3] Measuring range for hydraulic applications
[4] Display in psi
[5] instead of 9 V alkaline – shipping without air freight (MAN-SC only)
[6] for measuring ranges B2 to B7 / F2 to F7
[7] valid only for meas. ranges up to 0 ... 700 bar or 0 ... 10.000 psi
[8] not to be combined with MAN-xC20/-xC40

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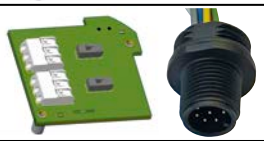
Accessories for standard versions

Order code	Description	Image
ZUB-MANS-KON1 [1]	Pluggable retrofit kit with 2x potential-free SPDT contact, comprising of a relay board and 2 x socket head cap screws M2x16 (only for MAN-LC…) Switching capacity per contact: 30 $V_{AC/DC}$, max. 1 A	
ZUB-MANS-KON2 [2]	Pluggable retrofit kit with 2x potential-free SPDT contact, comprising of a relay board and 2 x socket head cap screws M2x16 and 8-pin M12 connector (only for MAN-LC…) Switching capacity per contact: 30 $V_{AC/DC}$, max. 1 A	
ZUB-MANS-KAP01	Rubber protection sleeve MAN-SC/-LC, black	
ZUB-MANS-KAP02	Rubber protection sleeve MAN-SC/-LC, orange	

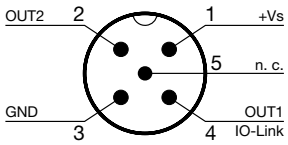
[1] Use of all relay contacts may not be possible (see possible options for customer modifications on following pages
[2] Not all relay contacts may be available using the delivered 8-pin connector (see possible options for customer modifications on following pages)

Accessories for M12x1 round connector

Round connector, M12x1 socket, straight								
Technical Details	Image							
	Order code	ZUB-KAB-12D500	ZUB-KAB-12K502	ZUB-KAB-12K505	ZUB-KAB-12K510	ZUB-KAB-12K802	ZUB-KAB-12K805	ZUB-KAB-12K810
Way of connection		Screws	2 m PUR cable moulded	5 m PUR cable moulded	10 m PUR cable moulded	2 m PUR cable moulded	5 m PUR cable moulded	10 m PUR cable moulded
Male insert		PBT / PA66	PUR			PUR		
Ring nut		PA66	Zinc die casting / Brass, nickel-plated			Zinc die casting / Brass, nickel-plated		
Cable outlet / cable diameter		4 - 6 mm	6 mm			6 mm		
Cross section of wire		max. 0.75 mm²	0.34 mm²			0.25 mm²		
Number of contacts		5	5			8		
Protection		IP 67	IP 67			IP 67		
Rated voltage		60 V	60 V			60 V		
Rated current		4 A	2 A			2 A		
Ambient temperature		-40 ... +85 °C	-25 ... +80 °C		-25 ... +85 °C	-25 ... +80 °C		-25 ... +85 °C

Round connector, M12x1 socket, straight			Round connector, M12x1 socket, angled					
Technical Details	Image							
	Order code	ZUB-KAB-12D800	ZUB-KAB-12W502	ZUB-KAB-12W505	ZUB-KAB-12W510	ZUB-KAB-12W802	ZUB-KAB-12W805	ZUB-KAB-12W810
Way of connection		Screws	2 m PUR cable moulded	5 m PUR cable moulded	10 m PUR cable moulded	2 m PUR cable moulded	5 m PUR cable moulded	10 m PUR cable moulded
Male insert		PA	PUR			PUR		
Ring nut		CuZn (brass)	Zinc die casting / Brass, nickel-plated			Zinc die casting / Brass, nickel-plated		
Cable outlet / cable diameter		6 - 8 mm	6 mm			6 mm		
Cross section of wire		max. 0.5 mm²	0.34 mm²			0.25 mm²		
Number of contacts		8	5			8		
Protection		IP67	IP 67			IP 67		
Rated voltage		30 V	60 V			60 V		
Rated current		2 A	2 A			2 A		
Ambient temperature		-25 ... +85 °C	-25 ... +85 °C	-25 ... +80 °C		-25 ... +85 °C	-25 ... +80 °C	

Electrical connection MAN-LC
Plug version, 5-pin

Plug version (Basic)	MAN-LC30 (standard version, delivery scope)
	
PIN 1	Supply +Vs
PIN 2	Output 2
PIN 3	Supply GND
PIN 4	Output 1 IO-Link
PIN 5	-

Possible options for customer modification, 5-pin, with optional retrofit kit ZUB-MANS-KON1*

5-pin	Modification	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	Order code**
Option 5.1 (recommended)	2 N/O contacts, 1 common Relay COM	Supply +Vs	Relay 2 N/O contact	Supply GND	Relay 1 N/O contact	Relay 1+2 Relay COM	**ABG-MANLC51**
Option 5.2	2 N/C contacts, 1 common Relay COM	Supply +Vs	Relay 2 N/C contact	Supply GND	Relay 1 N/C contact	Relay 1+2 Relay COM	**ABG-MANLC52**
Option 5.3	1 N/C contact, 1 N/O contact, 1 Relay COM	Supply +Vs	Relay 2 N/C contact	Supply GND	Relay 1 N/O contact	Relay 1+2 Relay COM	**ABG-MANLC53**
Option 5.4	1 Output IO-Link, 1 N/O contact, 1 Relay COM	Supply +Vs	Relay 2 N/O contact	Supply GND	Output 1 IO-Link	Relay 2 Relay COM	**ABG-MANLC54**
Option 5.5	1 Output IO-Link, 1 N/C contact, 1 Relay COM	Supply +Vs	Relay 2 N/C contact	Supply GND	Output 1 IO-Link	Relay 1 Relay COM	**ABG-MANLC55**
Option 5.6	1 Output 4 ... 20 mA, 1 N/O contact, 1 Relay COM	Supply +Vs	Output 2 (4 ... 20 mA)	Supply GND	Relay 1 N/O contact	Relay 1 Relay COM	**ABG-MANLC56**
Option 5.7	1 Output 4 ... 20 mA, 1 N/C contact, 1 Relay COM	Supply +Vs	Output 2 (4 ... 20 mA)	Supply GND	Relay 1 N/C contact	Relay 1 Relay COM	**ABG-MANLC57**

* Modification instructions included in instruction manual
** Factory configuration, possible while ordering a new unit

Possible options for customer modification, 8-pin, with optional retrofit kit ZUB-MANS-KON2*

8-pin	Modification	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	Order code**
Option 8.1 (recommended)	1 Output 4 ... 20 mA, 1 N/C contact, 1 N/O contact, 1 Relay COM	Supply +Vs	Output 2 (4 ... 20 mA)	Supply GND	Relay 1 Relay 1 COM	Relay 1 N/O contact	Relay 1 N/C contact	-	-	**ABG-MANLC81**
Option 8.2	2 N/C contacts, 2 N/O contacts, 2 Relay COM*	Supply +Vs	Relay 2 Relay 2 COM	Supply GND	Relay 1 Relay 1 COM	Relay 1 N/O contact	Relay 1 N/C contact	Relay 2 N/O contact	Relay 2 N/C contact	**ABG-MANLC82**
Option 8.3	1 Output IO-Link, 1 N/C contact, 1 N/O contact, 1 Relay COM*	Supply +Vs	Relay 2 Relay 2 COM	Supply GND	Output 1 IO-Link	-	-	Relay 2 N/O contact	Relay 2 N/C contact	**ABG-MANLC83**

* Modification instructions included in instruction manual
** Factory configuration, possible while ordering a new unit

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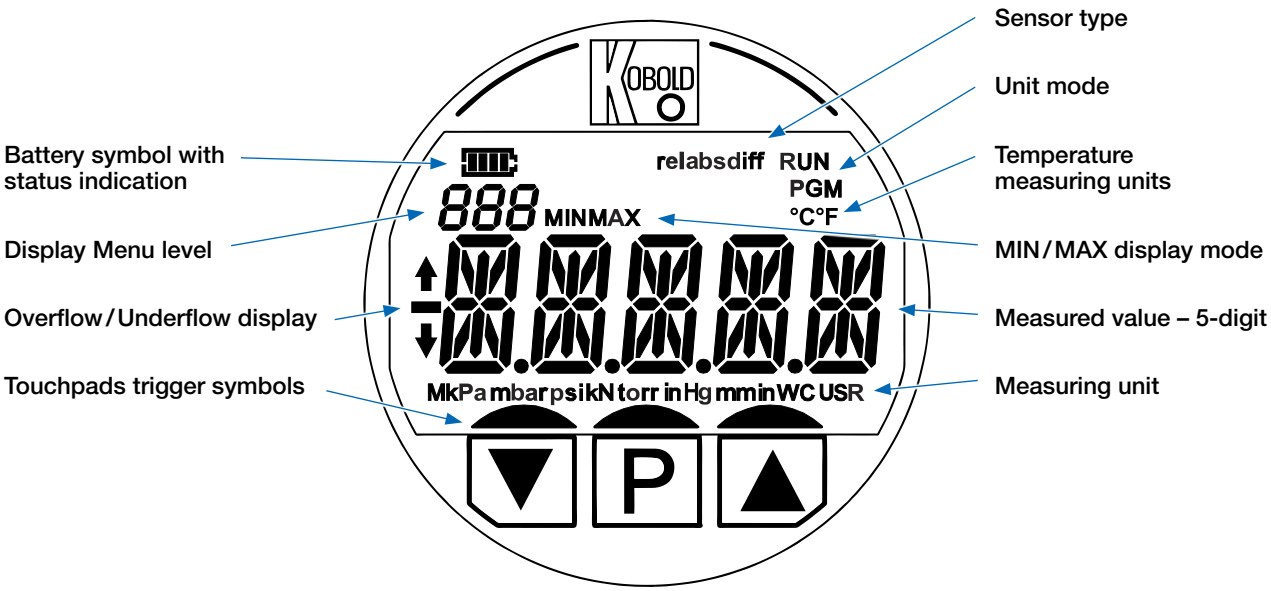
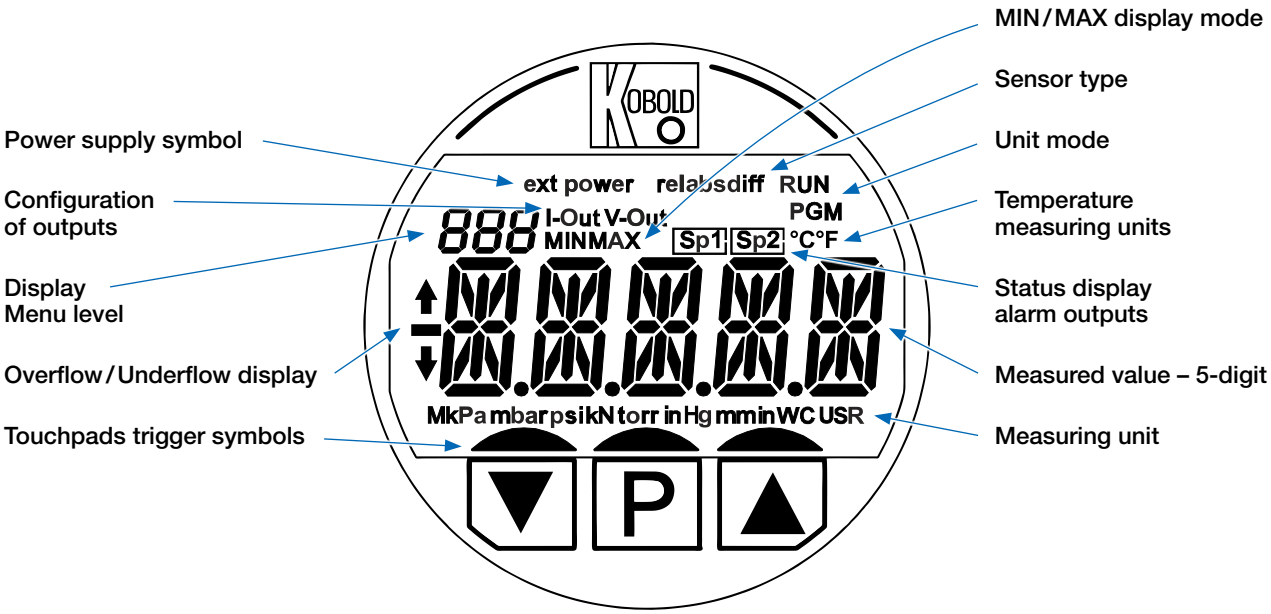
Display-Layout

MAN-SC

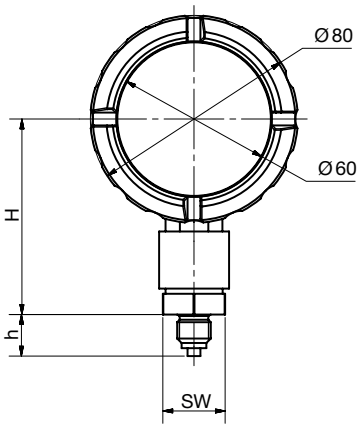


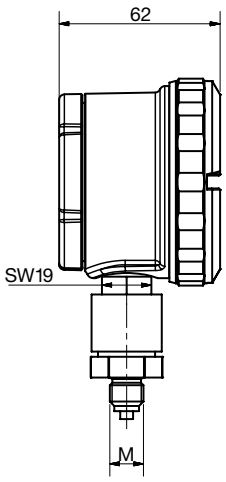
MAN-LC



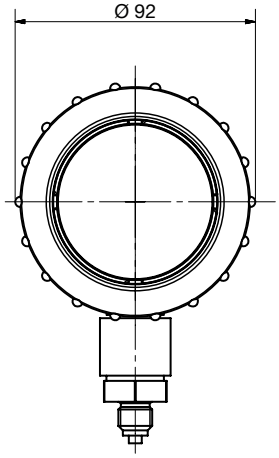
Dimensions [mm]

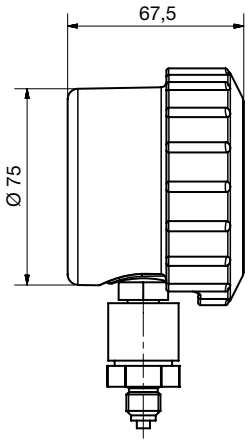
MAN-SC



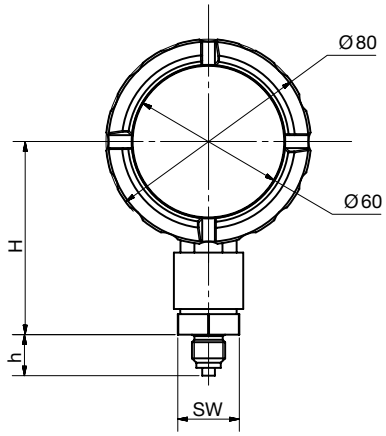


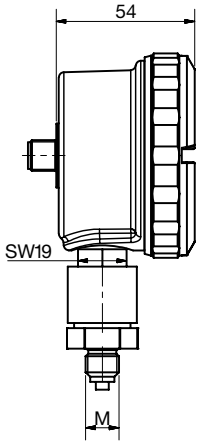
Rubber protection sleeve ZUB-MANS-KAP01 (optional)





MAN-LC





Mechanical connection	Code	M	SW [mm]	H+2 mm [mm]*	h [mm]
G¼ male	G2	G¼ male	24	75	16.5
G½ male	G4	G½ male	24	75	25.5
¼" NPT male	N2	¼" NPT	24	75	14.5
½" NPT male	N4	½" NPT	24	75	19
G¼ male *** 1000+1600 bar/15+20 k PSI	G2	G¼ male	27	83	16.5
G½ male *** 1000 + 1600 bar / 15+20 k PSI	G4	G½ male	27	83	25.5
¼" NPT male *** 1000 + 1600 bar / 15+20 k PSI	N2	¼" NPT	27	83	14.5
½" NPT male *** 1000 + 1600 bar / 15+20 k PSI	N4	½" NPT	27	84	19
Connection bottom G ¼ male with cooling fins ***	K2	G ¼ male	24	94.5	16.5
Connection bottom G ½ male with cooling fins ***	K4	G ½ male	24	94.5	25.5
Connection bottom ¼" NPT with cooling fins ***	C2	¼" NPT	24	94.5	14.5
Connection bottom ½" NPT with cooling fins ***	C4	½" NPT	24	94.5	19
Connection bottom M20x1.5 male	M2	M20x1.5	24	78	23.5
Connection bottom M16x1.5 male	M1	M16x1.5	24	78	23.5
Connection M6 female with O-ring groove	M6	M6 female	24	75	-
7/16 UNF DIN 3866 stainless steel	U7	7/16 UNF	24	75	15
G¼ male DIN 3852-E stainless steel + FPM gasket	D2	G¼ male	24	75	12

* The counter nut at the sensor can be loosened by the customer and the electronic housing rotated max. 360°. This changes the height H by approx. +1.75 mm (corresponds to thread slope). This rotation enables any orientation of the unit after final mounting is done.

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Example of MAN-SC/-LC direct assembled with diaphragm seal
(for dimensional details, see DRM data sheet)

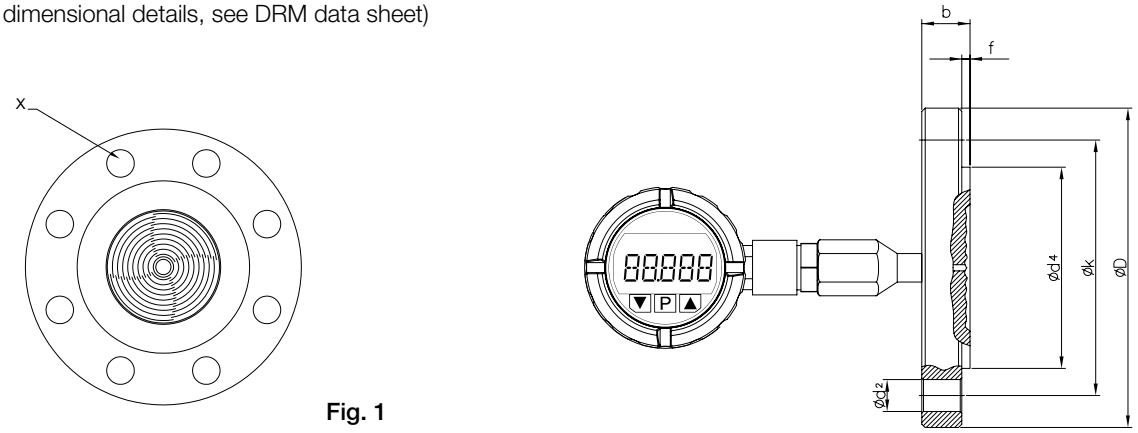

Fig. 1

Example of MAN-SC/-LC remote assembled with diaphragm seal and capillary
(for dimensional details, see DRM data sheet)

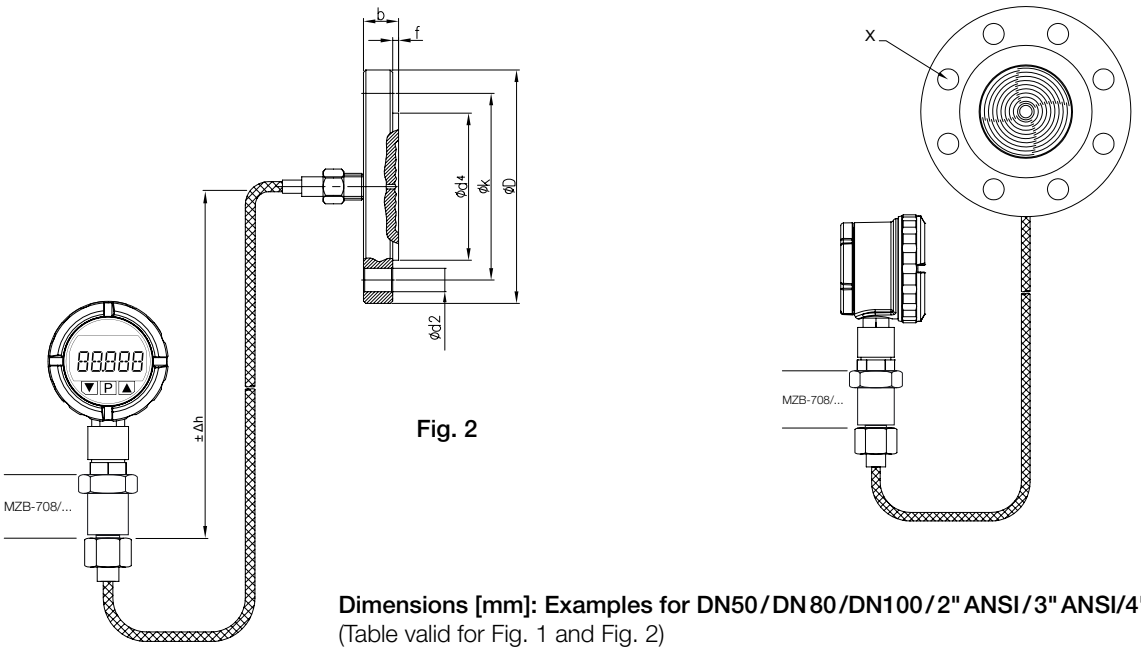

Fig. 2

Dimensions [mm]: Examples for DN50 / DN 80 / DN100 / 2" ANSI / 3" ANSI/4"ANSI
(Table valid for Fig. 1 and Fig. 2)

Flange type	D	k	d²	b	f	d⁴	X
DN50 PN16	165	125	18	18	2	102	4
DN50 PN40	165	125	18	20	2		4
2" ANSI Cl. 150	152.4	120.6	19	19.1	2	92	4
2" ANSI Cl. 300	165.1	127	19	22.3	2		8
DN80 PN16	200	160	18	20	2	138	8
DN80 PN40	200	160	18	24	2		8
3" ANSI Cl. 150	190.5	152.4	19	23.9	1.6	127	4
3" ANSI Cl. 300	209.5	168.3	22	28.4	1.6		8
DN100 PN16	220	180	18	20	2	149	8
DN100 PN40	235	190	22	24	2	149	8
4" ANSI Cl. 150	228.6	190.5	19	24	1.6	157.2	8
4" ANSI Cl. 300	254	200	22	32	1.6	157.2	8

Example of MAN-SC/-LC remote assembled with extended diaphragm seal and capillary
(for dimensional details, see DRM data sheet)

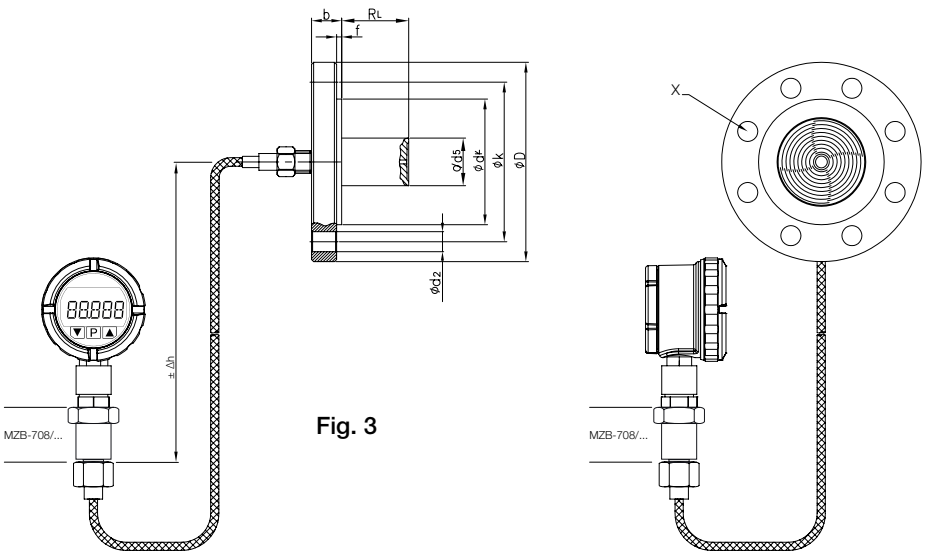

Fig. 3

Dimensions [mm]: Examples for DN50 / DN 80 /DN100 / 2" ANSI / 3" ANSI/4"ANSI

Flange type	D	k	d_2	b	f	d_4	X	d_5	R_L
DN50 PN16	165	125	18	18	2	102	4	48	50 mm (2")/ 100 mm (4")/ 150 mm (6")/ 200 mm (8")/ (customer specified)
DN50 PN40	165	125	18	20	2		4	48	
2" ANSI Cl. 150	152.4	120.6	19	19.1	2	92	4	48	
2" ANSI Cl. 300	165.1	127	19	22.3	2		8	48	
DN80 PN16	200	160	18	20	2	138	8	76	
DN80 PN40	200	160	18	24	2		8	76	
3" ANSI Cl. 150	190.5	152.4	19	23.9	1.6	127	4	76	
3" ANSI Cl. 300	209.5	168.3	22	28.4	1.6		8	76	
DN100 PN16	220	180	18	20	2	149	8	89	
DN100 PN40	235	190	22	24	2	149	8	89	
4" ANSI Cl. 150	228.6	190.5	19	24	1.6	157.2	8	89	
4" ANSI Cl. 300	254	200	22	32	1.6	157.2	8	89	

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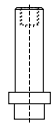
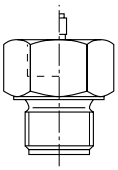
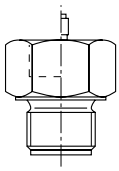
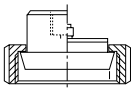
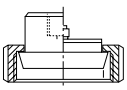
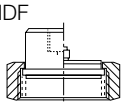
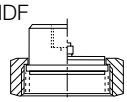
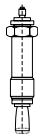
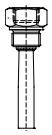
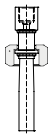
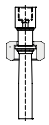
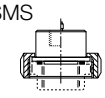
Diaphragm seal models (direct or remote assembly)

(Standard device without additional options (e.g. coatings, special materials etc.).
For dimensions/technical data, see DRM data sheet. Accuracy: Class 0.5 + influence of seal).
Over and under ranges of the min./max. span might be possible, but must be verified by Kobold for each application.
The indicated min./max. spans do not consider any coating of diaphragm seals. For additional information contact Kobold.

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-189 	**F23**	Ø 18	for homogenising machines, direct	Ø 18	+120 °C	0 ... 4	1000
DRM-600 	**R15**	G ½	fixed male thread, direct	Ø 18	+100 °C	0 ... 4*	1000
	R20	G ¾		Ø 23.8		0 ... 1.6*	1000
	R25	G 1		Ø 29.5		0 ... 1	600
	R32	G 1 ¼		Ø 38		0 ... 0.6	600
	R40	G 1 ½		Ø 40		0 ... 0.6	600
	N15	½" NPT		Ø 18		0 ... 4*	1000
	N20	¾" NPT		Ø 18		0 ...4*	1000
	N25	1" NPT		Ø 23.8		0 ... 1.6	600
	N32	1 ¼" NPT		Ø 34.5		0 ... 1	600
	M20	M20 x 1,5		Ø 18		0 ... 4	600
	M48	M 48 x 3		Ø 40		0 ...0.6	600
DRM-601 	**R15**	G ½	fixed male thread with capillary	Ø 18	+200 °C	0 ... 4*	1000
	R20	G ¾		Ø 23.8		0 ... 1.6*	1000
	R25	G 1		Ø 29.5		0 ... 1	600
	R32	G 1 ¼		Ø 38		0 ... 0.6	600
	R40	G 1 ½		Ø 40		0 ... 0.6	600
	N15	½" NPT		Ø 18		0 ... 4*	1000
	N20	¾" NPT		Ø 18		0 ... 4*	1000
	N25	1" NPT		Ø 23.8		0 ... 1.6	600
	N32	1 ¼" NPT		Ø 34.5		0 ... 1	600
	M20	M20 x 1,5		Ø 18		0 ... 4	600
	M48	M 48 x 3		Ø 40		0 ...0.6	600
DRM-602 DIN 11851 	**R20**	DN 20	dairy connection, direct	Ø 18	+100 °C	0 ... 4	40
	R25	DN 25		Ø 23.8		0 ... 1.6	40
	R32	DN 32		Ø 29.5		0 ... 1	40
	R40	DN 40		Ø 38		0 ... 0.6	40
	R50	DN 50		Ø 45.5		0 ... 0.4	25
	R65	DN 65		Ø 64		0 ... 0.25	25
	R80	DN 80		Ø 64		0 ... 0.25	25
	R1H	DN 100		Ø 64		0 ... 0.25	25

* On request only after technical clarification

Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-603 DIN 11851 	**R20**	DN 20	dairy connection, capillary	Ø 18	+200 °C	0 ... 4	40
	R25	DN 25		Ø 23.8		0 ... 1.6	40
	R32	DN 32		Ø 29.5		0 ... 1	40
	R40	DN 40		Ø 38		0 ... 0.6	40
	R50	DN 50		Ø 45.5		0 ... 0.4	25
	R65	DN 65		Ø 64		0 ... 0.25	25
	R80	DN 80		Ø 64		0 ... 0.25	25
	R1H	DN 100		Ø 64		0 ... 0.25	25
DRM-604 IDF 	**R25**	1"	IDF socket with union nut, direct	Ø 29.5	+100 °C	0 ... 1.6	40
	R40	1 ½"		Ø 42		0 ... 1	40
	R50	2"		Ø 56		0 ... 0.6	40
DRM-605 IDF 	**R25**	1"	IDF socket with union nut, capillary	Ø 29.5	+200 °C	0 ... 1	40
	R40	1 ½"		Ø 42		0 ... 0.6	40
	R50	2"		Ø 56		0 ... 0.4	40
DRM-606 	**R20**	G¾	capsule seal with rotable male, capillary	short capsule	+350 °C	0 ... 6	600
	R28	M28 x 1.5				0 ... 6	600
DRM-607 	**R15**	G½	capsule seal with fixed male, direct	long capsule	+100 °C	0 ... 1	600
	R20	G¾				0 ... 1	600
DRM-607/1 	**R15**	G¾	Capsule seal with fixed male, direct	long capsule		0 ... 1	600
	R20	G 1				0 ... 1	600
DRM-608/1 	**R20**	G¾	capsule seal with union nut, capillary	long capsule	+350 °C	0 ... 1	600
	R25	G 1	capsule seal with union nut, capillary	long capsule		0 ... 1	600
DRM-610 SMS 	**R40**	1 ½"	SMS socket with union nut, direct	Ø 34.5	+100 °C	0 ... 1	40
	R50	2"		Ø 45.5		0 ... 0.4	40

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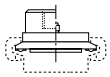
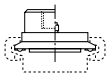
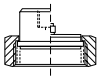
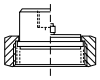
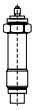
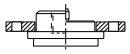
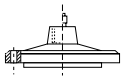
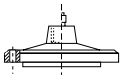
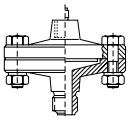
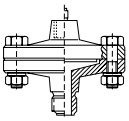
Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-611 SMS 	**R40**	1 ½"	SMS socket with union nut, capillary	Ø 34.5	+200 °C	0 ... 1	40
	R50	2"		Ø 45.5		0 ... 0.4	40
DRM-612 Clamp 	**R25**	1"	Tri-Clamp®, direct	Ø 18	+100 °C	0 ... 4	16
	F40	1 ½"		Ø 35.5		0 ... 1	16
	F50	2"		Ø 45.5		0 ... 0.4	16
	R65	2 ½"		Ø 52		0 ... 0.4	16
	R80	3"		Ø 64		0 ... 0.25	10
DRM-613 Clamp 	**R25**	1"	Tri-Clamp®, capillary	Ø 18	+200 °C	0 ... 4	16
	F40	1 ½"		Ø 35.5		0 ... 1	16
	F50	2"		Ø 45.5		0 ... 0.4	16
	R65	2 ½"		Ø 52		0 ... 0.4	16
	R80	3"		Ø 64		0 ... 0.25	10
DRM-614 APV-RJT 	**R20**	1"	union-nut, direct	Ø 29.5	+100 °C	0 ... 1.6	100
	R40	1 ½"		Ø 42.5		0 ... 0.6	100
	R50	2"		Ø 56		0 ... 0.4	100
DRM-615 APV-RJT 	**R20**	1"	union-nut, capillary	Ø 29.5	+200 °C	0 ... 1.6	100
	R40	1 ½"		Ø 42.5		0 ... 0.6	100
	R50	2"		Ø 56		0 ... 0.4	100
DRM-616 	**R45**	M 45 x 2	union-nut, direct	Ø 23.8	+100 °C	0 ... 1.6	1600
DRM-617 	**R45**	M 45 x 2	union-nut, capillary	Ø 23.8	+120 °C	0 ... 1.6	1600

Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-620 	**R20**	G¾	union-nut, capillary	Ø 23.8	+350 °C	0 ... 1.6	600
DRM-620/1 	**R20**	G¾	union-nut, capillary	Ø 23.8	+350 °C	0 ... 1.6	600
DRM-621 	**F38**	Ø 38 mm	flange, direct	Ø 38	+250 °C	0 ... 0.4	40
DRM-622 	**F48**	Ø 48 mm	flange, direct	Ø 48	+100 °C	0 ... 0.4	40
	F48 1	Ø 48 mm		Ø 48		0 ... 0.4	40
	F48 2	Ø 48 mm		Ø 48		0 ... 0.4	40
DRM-622/1 	**F48**	Ø 48 mm	flange, capillary	Ø 48	+200 °C	0 ... 0.4	40
	F48 1	Ø 48 mm		Ø 48		0 ... 0.4	40
	F48 2	Ø 48 mm		Ø 48		0 ... 0.4	40
DRM-624 	**F1H**	Ø 100 mm	flange, direct	Ø 63.5	+100 °C	0 ... 0.25	40
	F1H T	Ø 100 mm	flange, direct			0 ... 0.25	40
DRM-624/1 	**F1H**	Ø 100 mm	flange, capillary		+250 °C	0 ... 0.25	40
DRM-625 	**R15**	G½	fix male, direct	Ø 63.5	+100 °C	0 ... 0.25	40
	N15	½" NPT				0 ... 0.25	40
	I15	G½ female				0 ... 0.25	40
DRM-625/1 	**R15**	G½	fix male, capillary	Ø 63.5	+250 °C	0 ... 0.25	40
	N15	½" NPT				0 ... 0.25	40
	I15	G½ female				0 ... 0.25	40

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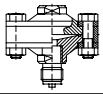
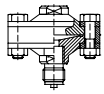
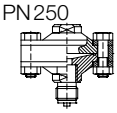
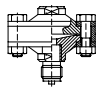
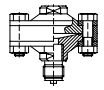
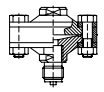
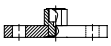
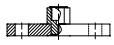
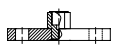
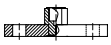
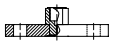
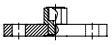
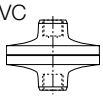
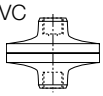
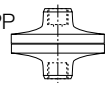
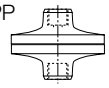
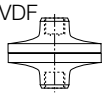
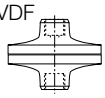
Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-626 PN 25 	**R08 A025**	G ¼ male	fix male, direct	Ø 56	+80 °C	0 ... 0.4	25
	R08 I025	G ¼ female	fix female, direct	Ø 56		0 ... 0.4	25
	R15 A025	G ½ male	fix male, direct	Ø 56		0 ... 0.4	25
	R15 I025	G ½ female	fix female, direct	Ø 56		0 ... 0.4	25
	N15 A025	½" NPT male	fix male, direct	Ø 56		0 ... 0.4	25
DRM-626 PN 100 	**R08 A100**	G ¼ male	fix male, direct	Ø 56	+80 °C	0 ... 0.4	100
	R08 I100	G ¼ female	fix female, direct	Ø 56		0 ... 0.4	100
	R15 A100	G ½ male	fix male, direct	Ø 56		0 ... 0.4	100
	R15 I100	G ½ female	fix female, direct	Ø 56		0 ... 0.4	100
	N15 A100	½" NPT male	fix male, direct	Ø 56		0 ... 0.4	100
DRM-626 PN 250 	**R08 A250**	G ¼ male	fix male, direct	Ø 56	+80 °C	0 ... 0.4	250
	R08 I250	G ¼ female	fix female, direct	Ø 56		0 ... 0.4	250
	R15 A250	G ½ male	fix male, direct	Ø 56		0 ... 0.4	250
	R15 I250	G ½ female	fix female, direct	Ø 56		0 ... 0.4	250
	N15 A250	½" NPT male	fix male, direct	Ø 56		0 ... 0.4	250
DRM-627 PN 25 	**R08 A025**	G ¼ male	fix male, capillary	Ø 56	+250 °C	0 ... 0.4	25
	R08 I025	G ¼ female	fix female, capillary	Ø 56		0 ... 0.4	25
	R15 A025	G ½ male	fix male, capillary	Ø 56		0 ... 0.4	25
	R15 I025	G ½ female	fix female, capillary	Ø 56		0 ... 0.4	25
	N15 A025	½" NPT male	fix male, capillary	Ø 56		0 ... 0.4	25
DRM-627 PN 100 	**R08 A100**	G ¼ male	fix male, capillary	Ø 56	+250 °C	0 ... 0.4	100
	R08 I100	G ¼ female	fix female, capillary	Ø 56		0 ... 0.4	100
	R15 A100	G ½ male	fix male, capillary	Ø 56		0 ... 0.4	100
	R15 I100	G ½ female	fix female, capillary	Ø 56		0 ... 0.4	100
	N15 A100	½" NPT male	fix male, capillary	Ø 56		0 ... 0.4	100
DRM-627 PN 250 	**R08 A250**	G ¼ male	fix male, capillary	Ø 56	+250 °C	0 ... 0.4	250
	R08 I250	G ¼ female	fix female, capillary	Ø 56		0 ... 0.4	250
	R15 A250	G ½ male	fix male, capillary	Ø 56		0 ... 0.4	250
	R15 I250	G ½ female	fix female, capillary	Ø 56		0 ... 0.4	250
	N15 A250	½" NPT male	fix male, capillary	Ø 56		0 ... 0.4	250
DRM-628 PN 06 	**F25P06**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	6
	F32P06	DN 32		Ø 30		0 ... 1.6	6
	F40P06	DN 40		Ø 38		0 ... 0.6	6
	F50P06	DN 50		Ø 48		0 ... 0.4	6
	F65P06	DN 65		Ø 64		0 ... 0.25	6
	F80P06	DN 80		Ø 64		0 ... 0.25	6
	N1HP06	DN 100		Ø 64		0 ... 0.25	6
DRM-628 PN 16 	**F25P16**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	16
	F32P16	DN 32		Ø 30		0 ... 1.6	16
	F40P16	DN 40		Ø 38		0 ... 0.6	16
	F50P16	DN 50		Ø 48		0 ... 0.4	16
	F65P16	DN 65		Ø 64		0 ... 0.25	16
	F80P16	DN 80		Ø 64		0 ... 0.25	16
	N1HP16	DN 100		Ø 64		0 ... 0.25	16
DRM-628 PN 40 	**F25P40**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	40
	F32P40	DN 32		Ø 30		0 ... 1.6	40
	F40P40	DN 40		Ø 38		0 ... 0.6	40
	F50P40	DN 50		Ø 48		0 ... 0.4	40
	F65P40	DN 65		Ø 64		0 ... 0.25	40
	F80P40	DN 80		Ø 64		0 ... 0.25	40
	N1HP40	DN 100		Ø 64		0 ... 0.25	40

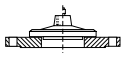
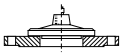
Diaphragm seal models (direct or remote assembly) (continued)

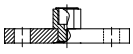
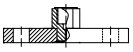
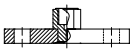
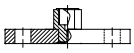
Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-629 PN 06 	**F25P06**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	6
	F32P06	DN 32		Ø 30		0 ... 1.6	6
	F40P06	DN 40		Ø 38		0 ... 0.6	6
	F50P06	DN 50		Ø 48		0 ... 0.4	6
	F65P06	DN 65		Ø 64		0 ... 0.25	6
	F80P06	DN 80		Ø 64		0 ... 0.25	6
	F1HP06	DN 100		Ø 64		0 ... 0.25	6
DRM-629 PN 16 	**F25P16**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	16
	F32P16	DN 32		Ø 30		0 ... 1.6	16
	F40P16	DN 40		Ø 38		0 ... 0.6	16
	F50P16	DN 50		Ø 48		0 ... 0.4	16
	F65P16	DN 65		Ø 64		0 ... 0.25	16
	F80P16	DN 80		Ø 64		0 ... 0.25	16
	F1HP16	DN 100		Ø 64		0 ... 0.25	16
DRM-629 PN 40 	**F25P40**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	40
	F32P40	DN 32		Ø 30		0 ... 1.6	40
	F40P40	DN 40		Ø 38		0 ... 0.6	40
	F50P40	DN 50		Ø 48		0 ... 0.4	40
	F65P40	DN 65		Ø 64		0 ... 0.25	40
	F80P40	DN 80		Ø 64		0 ... 0.25	40
	F1HP40	DN 100		Ø 64		0 ... 0.25	40

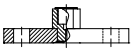
DRM 630 PVC 	**R08**	G ¼ female	fix female, direct	Ø 64	+40 °C	0 ... 0.25	10
	R15	G ½ female		Ø 64		0 ... 0.25	10
	N15	½" NPT female		Ø 64		0 ... 0.25	10
DRM-630/1 PVC 	**R08**	G ¼ female	fix female, capillary	Ø 64		0 ... 0.25	10
	R15	G ½ female		Ø 64		0 ... 0.25	10
	N15	½" NPT female		Ø 64		0 ... 0.25	10

DRM-631 PP 	**R08**	G ¼ female	fix female, direct	Ø 64	+40 °C	0 ... 0.25	10
	R15	G ½ female		Ø 64		0 ... 0.25	10
	N15	½" NPT female		Ø 64		0 ... 0.25	10
DRM-631/1 PP 	**R08**	G ¼ female	fix female, capillary	Ø 64		0 ... 0.25	10
	R15	G ½ female		Ø 64		0 ... 0.25	10
	N15	½" NPT female		Ø 64		0 ... 0.25	10
DRM-632 PVDF 	**R08**	G ¼ female	fix female, direct	Ø 64	+50 °C	0 ... 0.25	16
	R15	G ½ female		Ø 64		0 ... 0.25	16
	N15	½" NPT female		Ø 64		0 ... 0.25	16
DRM-632/1 PVDF 	**R08**	G ¼ female	fix female, capillary	Ø 64		0 ... 0.25	16
	R15	G ½ female		Ø 64		0 ... 0.25	16
	N15	½" NPT female		Ø 64		0 ... 0.25	16

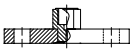
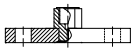
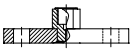
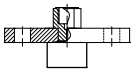
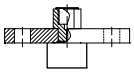
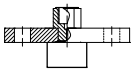
Diaphragm seal Models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-633 	**F50**	DN 50	flange to DIN2527 Form C, direct	Ø 64	+100 °C	0 ... 0.25	40
	F1H	DN 100		Ø 64		0 ... 0.25	40
DRM-633/1 	**F50**	DN 50	flange to DIN2527 Form C, capillary	Ø 64	+250 °C	0 ... 0.25	40
	F1H	DN 100		Ø 64		0 ... 0.25	40

DRM-634 150 lbs 	**A25P150**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 1.6	10
	A32P150	1¼"		Ø 38		0 ... 0.6	10
	A40P150	1½"		Ø 38		0 ... 0.6	10
	A50P150	2"		Ø 48		0 ... 0.4	10
	A65P150	2½"		Ø 48		0 ... 0.4	10
	A80P150	3"		Ø 64		0 ... 0.25	10
	A90P150	3½"		Ø 64		0 ... 0.25	10
	A1HP150	4"		Ø 64		0 ... 0.25	10
DRM-634 300 lbs 	**A25P300**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 1.6	20
	A32P300	1¼"		Ø 38		0 ... 0.6	20
	A40P300	1½"		Ø 38		0 ... 0.6	20
	A50P300	2"		Ø 48		0 ... 0.4	20
	A65P300	2½"		Ø 48		0 ... 0.4	20
	A80P300	3"		Ø 64		0 ... 0.25	20
	A90P300	3½"		Ø 64		0 ... 0.25	20
	A1HP300	4"		Ø 64		0 ... 0.25	20
DRM-634 600 lbs 	**A25P600**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 1.6	40
	A32P600	1¼"		Ø 38		0 ... 0.6	40
	A40P600	1½"		Ø 38		0 ... 0.6	40
	A50P600	2"		Ø 48		0 ... 0.4	40
	A65P600	2½"		Ø 48		0 ... 0.4	40
	A80P600	3"		Ø 64		0 ... 0.25	40
	A90P600	3½"		Ø 64		0 ... 0.25	40
	A1HP600	4"		Ø 64		0 ... 0.25	40
DRM-634 1500 lbs 	**A25P1K5**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 1.6	100
	A32P1K5	1¼"		Ø 38		0 ... 0.6	100
	A40P1K5	1½"		Ø 38		0 ... 0.6	100
	A50P1K5	2"		Ø 48		0 ... 0.4	100
	A65P1K5	2½"		Ø 48		0 ... 0.4	100
	A80P1K5	3"		Ø 64		0 ... 0.25	100
	A90P1K5	3½"		Ø 64		0 ... 0.25	100
	A1HP1K5	4"		Ø 64		0 ... 0.25	100

DRM-635 150 lbs 	**A25P150**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 1.6	10
	A32P150	1¼"		Ø 38		0 ... 0.6	10
	A40P150	1½"		Ø 38		0 ... 0.6	10
	A50P150	2"		Ø 48		0 ... 0.4	10
	A65P150	2½"		Ø 48		0 ... 0.4	10
	A80P150	3"		Ø 64		0 ... 0.25	10
	A90P150	3½"		Ø 64		0 ... 0.25	10
	A1HP150	4"		Ø 64		0 ... 0.25	10

Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-635 300 lbs 	**A25P300**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 1.6	20
	A32P300	1¼"		Ø 38		0 ... 0.6	20
	A40P300	1½"		Ø 38		0 ... 0.6	20
	A50P300	2"		Ø 48		0 ... 0.4	20
	A65P300	2½"		Ø 48		0 ... 0.4	20
	A80P300	3"		Ø 64		0 ... 0.25	20
	A90P300	3½"		Ø 64		0 ... 0.25	20
	A1HP300	4"		Ø 64		0 ... 0.25	20
DRM-635 600 lbs 	**A25P600**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 1.6	40
	A32P600	1¼"		Ø 38		0 ... 0.6	40
	A40P600	1½"		Ø 38		0 ... 0.6	40
	A50P600	2"		Ø 48		0 ... 0.4	40
	A65P600	2½"		Ø 48		0 ... 0.4	40
	A80P600	3"		Ø 64		0 ... 0.25	40
	A90P600	3½"		Ø 64		0 ... 0.25	40
	A1HP600	4"		Ø 64		0 ... 0.25	40
DRM-635 1500 lbs 	**A25P1K5**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 1.6	100
	A32P1K5	1¼"		Ø 38		0 ... 0.6	100
	A40P1K5	1½"		Ø 38		0 ... 0.6	100
	A50P1K5	2"		Ø 48		0 ... 0.4	100
	A65P1K5	2½"		Ø 48		0 ... 0.4	100
	A80P1K5	3"		Ø 64		0 ... 0.25	100
	A90P1K5	3½"		Ø 64		0 ... 0.25	100
	A1HP1K5	4"		Ø 64		0 ... 0.25	100
DRM-637 PN 06 	**F25P06**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	6
	F32P06	DN 32		Ø 30		0 ... 1.6	6
	F40P06	DN 40		Ø 38		0 ... 1	6
	F50P06	DN 50		Ø 48		0 ... 0.6	6
	F65P06	DN 65		Ø 64		0 ... 0.25	6
	F80P06	DN 80		Ø 64		0 ... 0.25	6
	N1HP06	DN 100		Ø 64		0 ... 0.25	6
DRM-637 PN 16 	**F25P16**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	16
	F32P16	DN 32		Ø 30		0 ... 1.6	16
	F40P16	DN 40		Ø 38		0 ... 1	16
	F50P16	DN 50		Ø 48		0 ... 0.6	16
	F65P16	DN 65		Ø 64		0 ... 0.25	16
	F80P16	DN 80		Ø 64		0 ... 0.25	16
	N1HP16	DN 100		Ø 64		0 ... 0.25	16
DRM-637 PN 40 	**F25P40**	DN 25	flange to EN1092-1, direct	Ø 24	+80 °C	0 ... 1.6	40
	F32P40	DN 32		Ø 30		0 ... 1.6	40
	F40P40	DN 40		Ø 38		0 ... 1	40
	F50P40	DN 50		Ø 48		0 ... 0.6	40
	F65P40	DN 65		Ø 64		0 ... 0.25	40
	F80P40	DN 80		Ø 64		0 ... 0.25	40
	N1HP40	DN 100		Ø 64		0 ... 0.25	40

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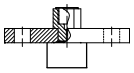
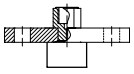
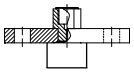
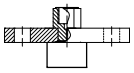
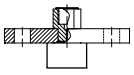
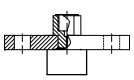
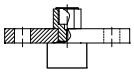
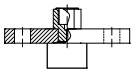
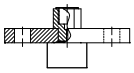
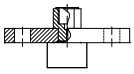
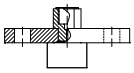
Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-638 PN 06 	**F25P06**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	6
	F32P06	DN 32		Ø 30		0 ... 1.6	6
	F40P06	DN 40		Ø 38		0 ... 1	6
	F50P06	DN 50		Ø 48		0 ... 0.6	6
	F65P06	DN 65		Ø 64		0 ... 0.25	6
	F80P06	DN 80		Ø 64		0 ... 0.25	6
	F1HP06	DN 100		Ø 64		0 ... 0.25	6
DRM-638 PN 16 	**F25P16**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	16
	F32P16	DN 32		Ø 30		0 ... 1.6	16
	F40P16	DN 40		Ø 38		0 ... 1	16
	F50P16	DN 50		Ø 48		0 ... 0.6	16
	F65P16	DN 65		Ø 64		0 ... 0.25	16
	F80P16	DN 80		Ø 64		0 ... 0.25	16
	F1HP16	DN 100		Ø 64		0 ... 0.25	16
DRM-638 PN 40 	**F25P40**	DN 25	flange to EN1092-1, capillary	Ø 24	+250 °C	0 ... 1.6	40
	F32P40	DN 32		Ø 30		0 ... 1.6	40
	F40P40	DN 40		Ø 38		0 ... 1	40
	F50P40	DN 50		Ø 48		0 ... 0.6	40
	F65P40	DN 65		Ø 64		0 ... 0.25	40
	F80P40	DN 80		Ø 64		0 ... 0.25	40
	F1HP40	DN 100		Ø 64		0 ... 0.25	40

DRM-639 150 lbs 	**A25P150**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 15 psi	145 psi
	A32P150	1¼"		Ø 38		0 ... 15 psi	145 psi
	A40P150	1½"		Ø 38		0 ... 15 psi	145 psi
	A50P150	2"		Ø 48		0 ... 10 psi	145 psi
	A63P150	2½"		Ø 48		0 ... 10 psi	145 psi
	A75P150	3"		Ø 64		0 ... 4 psi	145 psi
	A85P150	3½"		Ø 64		0 ... 4 psi	145 psi
	A1HP150	4"		Ø 64		0 ... 4 psi	145 psi
DRM-639 300 lbs 	**A25P300**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 15 psi	290 psi
	A32P300	1¼"		Ø 38		0 ... 15 psi	290 psi
	A40P300	1½"		Ø 38		0 ... 15 psi	290 psi
	A50P300	2"		Ø 48		0 ... 10 psi	290 psi
	A63P300	2½"		Ø 48		0 ... 10 psi	290 psi
	A75P300	3"		Ø 64		0 ... 4 psi	290 psi
	A85P300	3½"		Ø 64		0 ... 4 psi	290 psi
	A1HP300	4"		Ø 64		0 ... 4 psi	290 psi
DRM-639 600 lbs 	**A25P600**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 15 psi	580 psi
	A32P600	1¼"		Ø 38		0 ... 15 psi	580 psi
	A40P600	1½"		Ø 38		0 ... 15 psi	580 psi
	A50P600	2"		Ø 48		0 ... 10 psi	580 psi
	A63P600	2½"		Ø 48		0 ... 10 psi	580 psi
	A75P600	3"		Ø 64		0 ... 4 psi	580 psi
	A85P600	3½"		Ø 64		0 ... 4 psi	580 psi
	A1HP600	4"		Ø 64		0 ... 4 psi	580 psi

Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM-639 1500 lbs 	**A25P1K5**	1"	flange to ASME B16.5, direct	Ø 30	+80 °C	0 ... 15 psi	1450 psi
	A32P1K5	1¼"		Ø 38		0 ... 15 psi	1450 psi
	A40P1K5	1½"		Ø 38		0 ... 15 psi	1450 psi
	A50P1K5	2"		Ø 48		0 ... 10 psi	1450 psi
	A63P1K5	2½"		Ø 48		0 ... 10 psi	1450 psi
	A75P1K5	3"		Ø 64		0 ... 4 psi	1450 psi
	A1HP1K5	4"		Ø 64		0 ... 4 psi	1450 psi
DRM-640 150 lbs 	**A25P150**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 15 psi	145 psi
	A32P150	1¼"		Ø 38		0 ... 15 psi	145 psi
	A40P150	1½"		Ø 38		0 ... 15 psi	145 psi
	A50P150	2"		Ø 48		0 ... 10 psi	145 psi
	A63P150	2½"		Ø 48		0 ... 10 psi	145 psi
	A75P150	3"		Ø 64		0 ... 4 psi	145 psi
	A85P150	3½"		Ø 64		0 ... 4 psi	145 psi
	A1HP150	4"		Ø 64		0 ... 4 psi	145 psi
DRM-640 300 lbs 	**A25P300**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 15 psi	290 psi
	A32P300	1¼"		Ø 38		0 ... 15 psi	290 psi
	A40P300	1½"		Ø 38		0 ... 15 psi	290 psi
	A50P300	2"		Ø 48		0 ... 10 psi	290 psi
	A63P300	2½"		Ø 48		0 ... 10 psi	290 psi
	A75P300	3"		Ø 64		0 ... 4 psi	290 psi
	A85P300	3½"		Ø 64		0 ... 4 psi	290 psi
	A1HP300	4"		Ø 64		0 ... 4 psi	290 psi
DRM-640 600 lbs 	**A25P600**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 15 psi	580 psi
	A32P600	1¼"		Ø 38		0 ... 15 psi	580 psi
	A40P600	1½"		Ø 38		0 ... 15 psi	580 psi
	A50P600	2"		Ø 48		0 ... 10 psi	580 psi
	A63P600	2½"		Ø 48		0 ... 10 psi	580 psi
	A75P600	3"		Ø 64		0 ... 4 psi	580 psi
	A85P600	3½"		Ø 64		0 ... 4 psi	580 psi
	A1HP600	4"		Ø 64		0 ... 4 psi	580 psi
DRM-640 1500 lbs 	**A25P1K5**	1"	flange to ASME B16.5, capillary	Ø 30	+250 °C	0 ... 15 psi	1450 psi
	A32P1K5	1¼"		Ø 38		0 ... 15 psi	1450 psi
	A40P1K5	1½"		Ø 38		0 ... 15 psi	1450 psi
	A50P1K5	2"		Ø 48		0 ... 10 psi	1450 psi
	A63P1K5	2½"		Ø 48		0 ... 10 psi	1450 psi
	A75P1K5	3"		Ø 64		0 ... 4 psi	1450 psi
	A1HP1K5	4"		Ø 64		0 ... 4 psi	1450 psi

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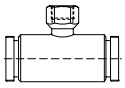
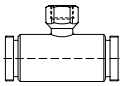
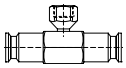
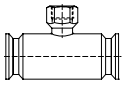
Diaphragm seal models (direct or remote assembly) (continued)

Model DRM	Size code	Size	Note	Ø Diaphragm	Max. medium temperature	Min. span [bar]	Max. span [bar]
DRM 500 ISO Sterile 	**D15**	DN 15	inline, direct	inline	+80 °C	0 ... 1.6	40
	D20	DN 20		inline		0 ... 1.6	40
	D25	DN 25		inline		0 ... 0.6	40
	D32	DN 32		inline		0 ... 0.6	40
	D40	DN 40		inline		0 ... 0.4	40
	D50	DN 50		inline		0 ... 0.4	40
DRM 501 ISO Sterile 	**D15**	DN 15	inline, capillary	inline	+80 °C	0 ... 1.6	40
	D20	DN 20		inline		0 ... 1.6	40
	D25	DN 25		inline		0 ... 0.6	40
	D32	DN 32		inline		0 ... 0.6	40
	D40	DN 40		inline		0 ... 0.4	40
	D50	DN 50		inline		0 ... 0.4	40
DRM 502 Clamp ISO 2852 	**D15**	DN 15	inline, direct	inline	+80 °C	0 ... 1.6	40
	D20	DN 20		inline		0 ... 1.6	40
	D25	DN 25		inline		0 ... 0.6	40
	D32	DN 32		inline		0 ... 0.6	40
	D40	DN 40		inline		0 ... 0.4	40
	D50	DN 50		inline		0 ... 0.4	40
DRM 503 Clamp ISO 2852 	**D15**	DN 15	inline, capillary	inline	+80 °C	0 ... 1.6	40
	D20	DN 20		inline		0 ... 1.6	40
	D25	DN 25		inline		0 ... 0.6	40
	D32	DN 32		inline		0 ... 0.6	40
	D40	DN 40		inline		0 ... 0.4	40
	D50	DN 50		inline		0 ... 0.4	40

Application Index

Please fill out the following Application Data Sheet while inquiring/ordering model MAN-SC/-LC assembly with diaphragm seal model DRM

Order/ Inquiry Ref./ Item No.

Pressure Transmitter (Model, calibration range)	
Diaphragm seal (Model, size code)	
Diaphragm material of DRM (wetted part)	

Medium:		
Operating density		**g/cm²**
Operating viscosity		**cSt**

Temperature:	**nominal**	**minimal**	**maximal**	
Medium temperature				**°C / °F**
Ambient temperature				**°C / °F**
Rinsing temperature diaphragm seal				**°C / °F**
Rinsing temperature capillary				**°C / °F**

Application Index (continued)

Please fill out the following Application Data Sheet while inquiring/ordering model MAN-SC/-LC assembly with diaphragm seal model DRM

Order/ Inquiry Ref./ Item No.

Pressure specification:		**Value**	
1.1) Operating pressure static	or 1.2		**bar/psi**
1.2) Operating pressure dynamic min + max	or 1.3		**bar/psi**
1.3) Operating pressure as frequency in Hz			**Hz**
2.) Max. negative pressure			
3.) Max. over pressure			
4.1) Display damping: without / light / middle / strong	or 4.2		
4.2) Pressure decrease with time + range			

Arrangement with direct mounting:		
1.) Standard (DRM six o'clock position)	or 2.0	
2.) Left (DRM nine o'clock position)	or 3.0	
3.) Right (DRM three o'clock position, see Fig. 1)	or 4.0	
4.) Special, with description	or 5.0	
5.) Position (vertically/horizontally) with pipe diaphragm seal		

Arrangement with capillary:		
1.) Standard (DRM six o'clock position)	or 2.0	
2.) on the side (DRM three or 9 o'clock position)	or 3.0	
3.) Top (DRM twelve o'clock position)	or 4.0	
4.) Special, with description	or 5.0	
5.) Position (vertically/horizontally) with pipe diaphragm seal		

Capillary (stainless steel 1.4571/316Ti):		
Length in 'mm'		**mm**
Protection hose required (Yes/No)		

Height adjustment:		
	No	
1.) MAN-SC/-LC same level as DRM (diaphragm - pressure transmitter)	or 2.)	
	Yes	
2.) MAN-SC/-LC higher than DRM (specify Δh as in Fig. 2 or Fig. 3)	or 3.)	**m**
3.) MAN-SC/-LC lower than DRM (specify Δh as in Fig. 2 or Fig. 3)		**m**

Options:	
Extended diaphragm seal (Tick mark the desired box)	
No	
Yes	
If Yes, length 'R_L' of extended diaphragm seal (in mm)	
If Yes, length 'R_L' of extended diaphragm seal (in inches)	
Filling liquid (Tick mark the desired box)	
Glycerine oil (silicone free, food grade) for operation temp. (-10 … +80 °C)	
Paraffine oil (silicone free, food grade) for operation temp. (-10 … +120 °C)	
Silicone oil for operation temp. (-40 … +200 °C)	
Silicone oil for operation temp. (-20 … +350 °C)	
Silicone oil for operation temp. (-20 … +400 °C)	

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