

Special Designs Bourdon tube - Diaphragm - Capsule

Ordering note:

The ordering number for the gauge has four figure ordering codes added to it:

e.g.: DR 100/211.111/.../0013 (0013=connection M 20 x 1.5)
Numbers above 9000 are explained in clear.

Component	Special designs	Ordering Code	Bourdon tube Nominal size				Diaphragm Nominal size	
			63	80	100	160	100	160
Ring								
	polished	0106	X	X	X	X	X	X
Case								
	air and watertight IP 67	0114	–	X	X	X	–	–
	splash water jets tight IP 54	0115	X	X	X	X	–	–
	lead sealed	0117	–	–	–	X	–	–
	prepared for lead sealing	0118	–	–	–	X	–	–
	polished (tube and ring)	0156	X	X	X	X	X	X
Measuring system								
	overpressure safe	0201	A	X	X	X	X	X
	underpressure safe	0203	A	X	X	X	–	–
	with overflow break	0207	A	X	X	X	–	–
	with underflow break	0208	A	X	X	X	–	–
	gauge lower than measuring point	9206	X	X	X	X	–	–
	gauge higher than measuring point	9207	X	X	X	X	–	–
Measuring element								
	evacuated and filled with oil	0209	X	X	X	X	–	–
Connection								
	connection for flat sealing	G ¹ / ₈	0001	X	–	–	–	–
		G ¹ / ₄	0002	X	X	X	X	–
		G ³ / ₈	0003	X	X	X	X	–
		G ¹ / ₂	0004	X	X	X	X	–
		M12 x 1.5	0011	X	X	X	–	–
		M20 x 1.5	0013	X	–	X	X	X
	connection for lens sealing	G ¹ / ₂	0016	–	–	X	X	–
		M20 x 1.5	0018	–	–	X	X	–
	connection tapered, self-sealing	1/8"–27 NPT	0021	X	X	X	–	–
		1/4"–18 NPT	0022	X	X	X	X	–
		1/2"–14 NPT	0024	X	X	X	X	X
	connection for conic sealing	G ¹ / ₄	0041	–	A	A	–	–
		7/16"–20 UNF	0042	X	X	X	–	–
	custom specific connections (excl. 0001...0045)		9020	A	A	A	A	A
	positioning of male connection	45° left	0225	X	X	X	X	X
		90° left	0226	X	X	X	X	X
		at top	0227	X	X	X	X	X
		90° right	0228	X	X	X	X	X
		45° right	0229	X	X	X	X	X
	customer specific positioning		9225	A	A	A	A	A

Notes: A on request
• order as text

Component / Special designs		Ordering Code	Bourdon tube Nominal size				Diaphragm Nominal size	
			63	80	100	160	100	160
Nominal position								
3)	NP 0	0217	X	X	X	X	X	X
	NP 30	0218	X	X	X	X	X	X
	NP 45	0219	X	X	X	X	X	X
	NP 120	0220	X	X	X	X	X	X
	NP 135	0221	X	X	X	X	X	X
	NP 180	0222	X	X	X	X	X	X
	customer specific nominal position (for ex. NP 70 9223/0070) 3)	9223	X	X	X	X	X	X
Calibration medium								
	liquid	0240	X	X	X	X	-	-
	gas	0241	X	X	X	X	-	-
Movement								
	Stainless steel	0651	X	X	X	X	X	X
	Stainless steel with silicone dampening	0655	A	-	X	X	-	-
Pointer								
	thin pointer tip	0670	X	X	X	X	X	X
	micro-adjustable pointer	0678	X	-	X	X	X	X
	dial pointer Pabs (Pointer at 1 bar)	0691	X	X	X	X	X	X
Dial								
	adjustable from outside as a pointer correction device	0727	-	-	-	X	-	-
	micrometer scale – thin pointer tip	0730	X	X	X	X	X	X
	micrometer scale – knife-edge pointer	0731	X	-	X	X	-	-
	red markings at ...	9700	X	X	X	X	X	X
	green markings at ...	9701	X	X	X	X	X	X
	indicating range (measuring range) identical/ similar to catalog sheet however, different measuring units (for ex. kp/cm2 of bar)	9704	X	X	X	X	X	X
	indicating range (measuring range) identical to catalog sheet however, different graduation (for ex. 0 ... 7.3 t instead of 0 ... 10 bar)	9705	X	X	X	X	X	X
	indicating range (measuring range) identical to catalog sheet dial design as per specification	9709	X	X	X	X	X	X
	measuring range (indicating range) not according to catalog sheet (for ex. 0 ... 20 bar, -1 ... 20 bar)	9210	X	X	X	X	X	X
	company logo	9710	X	X	X	X	X	X
	technical inscription	9711	X	X	X	X	X	X
Window								
	standard glass	0750	-	X	X	X	X	X
	laminated safety glass	0751	X	X	X	X	X	X
	acryl glass (plexiglass)	0752	X	A	A	A	-	-
Safety precautions								
	pressure release valve(s)	0760	X	X	X	X	X	X
	for oxygen, clean of grease and oil	0765	X	X	X	X	X	X
	clean of Silicon	0794	X	X	X	X	X	X
	helium leak test	0792	X	X	X	X	-	-
	(leaking rate < 10 ⁻⁶ mbar • l • S ⁻¹)							
	screws secured with «Loc-Tite»	0799	-	X	X	X	X	X
	throttle screw drilling Ø 0.2 (brass)	0768	-	X	X	X	X	X
	throttle screw drilling Ø 0.3	0769	X	X	X	X	X	X
	throttle screw drilling Ø 0.4	0770	X	X	X	X	X	X
	throttle screw drilling Ø 0.5 (brass)	0771	-	X	X	X	X	X

Note: A on request

Component / Special designs		Ordering Code	Bourdon tube Nominal size				Diaphragm Nominal size	
			63	80	100	160	100	160
Safety precautions								
case prepared for liquid filling		0773	X	X	X	X	X	X
case filled with dampening liquid glycerine 86% (-25...60°C)		0774	X	X	X	X	X	X
case filled with dampening liquid glycerine 99.5% (5...60°C)		0775	X	X	X	X	X	X
case with dampening liquid AK 1000 silicone oil, (-35...60°C)		0776	X	X	X	X	X	X
case with dampening liquid paraffin oil, (-10...60°C)		0777	X	X	X	X	X	X
Auxiliary units								
max pointer	reset knob fixed	0059	X	X	X	X	X	X
	reset knob removable	0060	X	X	X	X	X	X
	magnetic resetting	0061	-	A	A	-	A	-
min pointer	reset knob fixed	0062	X	X	X	X	X	X
	reset knob removable	0063	X	X	X	X	X	X
	magnetic resetting	0064	-	A	A	-	A	-
	index pointer on dial	0051	X	X	X	X	X	X
	index pointer under window adjustable knob fixed	0052	X	X	X	X	X	X
	index pointer under window adjusting knob removable	0053	X	X	X	X	X	X
	index pointer under the glass, magnetic removable	0054	-	-	X	X	X	X
Reports / Certificates								
	prepared for official calibration	0090	-	-	X	X	-	-
	official calibration (only with 0090)	•	-	-	X	X	-	-
	Certificate of compliance with the order (EN 10204-2.1)	•	X	X	X	X	X	X
	Test Report (EN 10204-2.2)	•	X	X	X	X	X	X
	Inspection Certificate (EN 10204-3.1)	•	X	X	X	X	X	X
	Certificate of calibration (not official)	•	X	X	X	X	X	X
	official Certificate of calibration D K D	•	X	X	X	X	X	X

Ordering note:

The ordering number for the gauge has four digits ordering codes e.g. DK 100/211.111/115/0106/.../ (0106: polished) added to it: Numbers above 9000 are explained in text.

Component / Special designs		Ordering Code	Capsule diaphragm vertical		
			63	100	160
Ring					
	polished	0106	X	X	X
Case					
	lead sealed	0117	–	X	X
	prepared for lead sealing	0118	–	X	X
	polished (tube and ring)	0156	X	X	X
Measuring system					
	overpressure safe	0201	1)	1)	1)
	underpressure safe	0203	1)	1)	1)
Connection					
connection for flat sealing	G ^{1/8}	0001	X	–	–
	G ^{1/4}	0002	X	X	–
	G ^{3/8}	0003	X	X	–
	G ^{1/2}	0004	–	X	X
	M 12 x 1,5	0011	X	X	–
	M 20 x 1,5	0013	–	X	X
connection tapered, self-sealing	1/4" – 18 NPT	0022	X	X	X
	1/2" – 14 NPT	0024	–	X	X
Hose connection at back, brass, plain	Ø 05	0180	X	X	X
	Ø 06	0181	X	X	X
custom specific connection		9020	A	A	A
position of the connection	45° left	0225	X	X	X
	90° left	0226	X	X	X
	on the top	0227	X	X	X
	90° right	0228	X	X	X
	45° right	0229	X	X	X
customer specific positioning		9225	A	A	A
Nominal position					
	NP 000	0217	X	X	X
	NP 030	0218	X	X	X
	NP 045	0219	X	X	X
	NP 120	0220	X	X	X
	NP 135	0221	X	X	X
	NP 180	0222	X	X	X
customer specific nominal position (for ex. for NL 70: 9223/0070)		9223	A	A	A

Notes: 1) Cu alloy 10 times over-/underpressure safe, for stainless steel 3 times standard

- A on request
- order as text

Component / Special designs	Ordering Code	Capsule diaphragm vertical		
		63	100	160
Movement				
stainless steel	0651	X	X	X
Pointer				
thin pointer tip	0670	X	X	X
Dial				
micrometer scale, pointer 0670	0730	X	X	X
micrometer scale – knife-edge pointer	0731	X	X	X
red markings at ...	9700	X	X	X
green markings at ...	9701	X	X	X
red circle ring piece	9690	X	X	X
green circle ring piece	9691	X	X	X
circle ring pieces with other colours	9694	X	X	X
Dial				
indicating range (measuring range) identical/similar to catalog sheet however, different measuring units (for ex. mmWs instead of mbar)	9704	X	X	X
indicating range (measuring range) identical to catalog sheet however, different graduation (for ex. 0–7,3 t instead of 0–10 bar)	9705	X	X	X
indicating range (measuring range) identical to catalog sheet	9709	X	X	X
dial design as per specification				
measuring range (indicating range) not according to catalog sheet (for ex. –30 ... 30 mbar)	9210	X	X	X
company logo	9710	X	X	X
technical inscription	9711	X	X	X
Window				
standard glass	0750	X	X	X
laminated safety glass	0751	X	X	X
acrylic glass (plexiglass)	0752	X	X	X
Safety precautions				
pressure release valves	0760	–	X	X
clean of Silicon	0794	X	X	X
helium leak test (leaking rate $<10^{-3}$ mbar • l • s ⁻³)	0792	X	X	X
screws secured with «Loc-Tite»	0799	X	X	X
throttle screw drilling Ø 0,3	0769	X	X	X
throttle screw drilling Ø 0,5 (brass)	0771	X	X	X
Auxiliary units				
max. pointer reset knob fixed	0059	–	X	X
max. pointer reset knob removable	0060	–	X	X
min. pointer reset knob fixed	0062	–	X	X
min. pointer reset knob removable	0063	–	X	X
index pointer on dial	0051	X	X	X
index pointer under window, adjusting knob fixed	0052	X	X	X
Certificates				
Certificate of compliance with the order (EN 10204-2.1)	•	X	X	X
Test Report (EN 10204-2.2)	•	X	X	X
Certificate of calibration (not official)	•	X	X	X

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