

Bourdon tube pressure gauges for heating/plumbing applications with self-sealing connection thread



Application

For gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

Nominal size

50 – 63 – 80 – 100

Accuracy class (EN 837-1/6)

NG 50-80: 2.5

NG 100: 1.6

Ranges (EN 837-1/5)

0/0.6 to 0/25 bar

Application area

Static load:

$\frac{3}{4}$ x full scale value

Dynamic load:

$\frac{2}{3}$ x full scale value

Short term:

full scale value

Operating temperature range

Medium: $T_{max} = +60$ °C

Ambient: $T_{min} = -20$ °C

$T_{max} = +60$ °C

Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx. ± 0.4 %/10 K

falling temp. approx. ± 0.4 %/10 K

percentage of full scale value

Protection

IP 32 (EN 60529)

Refer to page 269 for prices

Standard version

Connection

Self-sealing thread with PTFE ring for safe and fast installation

(Attention: 60° chamfer required at female thread)

Brass, bottom or back

NG 50-63 G $\frac{1}{4}$ B – spanner size 14

NG 80-100 G $\frac{1}{2}$ B – spanner size 22

Measuring element

Bourdon tube element, copper alloy
„C“ type bourdon tube

Movement

Brass

Dial

Plastic, white

Dial marking black

Pointer

Plastic, black

Housing

Black ABS, highly impact resistant and corrosion resistant

Front glass

Clip-in plastic

NG 80–100 with adjustable red reference pointer

Special versions

Pressure gauge for heating installations NG 50-63-80

for sealed heating systems

Range 0/4 bar

Connection NG 50 G $\frac{1}{4}$ B bottom back

NG 63 G $\frac{1}{4}$ B or G $\frac{3}{8}$ B

bottom or centre back

NG 80 G $\frac{1}{2}$ B bottom or

G $\frac{1}{4}$ B centre back

(with valve G $\frac{1}{4}$ x G $\frac{1}{2}$)

Dial with red mark at 3 bar and

green sector from 1.5 to 3 bar

Front glass with adjustable red

reference pointer and green flag

Hydrometer NG 100

Water level indicator for standard heating systems

Ranges 0/0.6 to 0/10 bar

Connection G $\frac{1}{2}$ B bottom

Dual scale, bar outer scale, black,

metres water column

inner scale, black

Front glass with adjustable red reference pointer

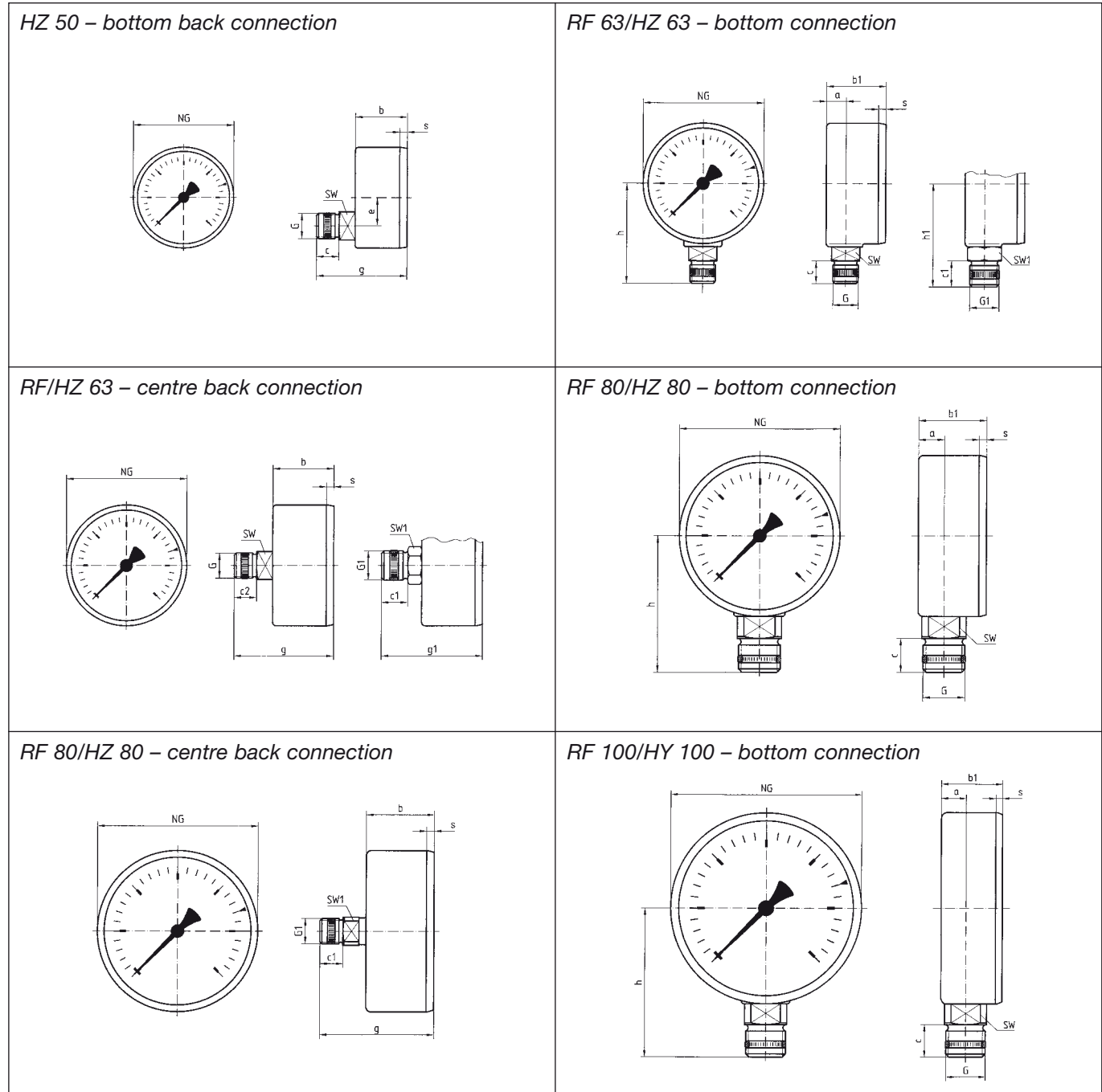
Accessories

Mounting valves

with self-sealing coating, automatically close during replacement of gauge to enable fast and cost effective servicing (refer to page 408 „Accessories for pressure gauges“).

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Housing types and dimensions

















Dimensions (mm)

Nominal size (NG)	a	b	b ₁	c	c ₁	c ₂	e	g	g ₁	G*	G ₁ *	h	h ₁	s	SW	SW ₁
50	-	25.8	-	11.2	-	-	14	43	-	G ¹ / ₄ B	-	-	-	3.8	14	-
63	9.8	30.4	29.7	11.2	13	11.5	-	49.9	50.4	G ¹ / ₄ B	G ³ / ₈ B	49	51.5	3.7	14	17
80	12.8	32.8	32.8	17	11.5	-	-	55.8	-	G ¹ / ₂ B	G ¹ / ₄ B	68	-	2.8	22	14
100	15.5	34.5	-	17	-	-	-	-	-	G ¹ / ₂ B	-	78	-	3.5	22	-

* Attention: approx. 60° chamfer required at female thread

Bourdon tube pressure gauges for heating/ plumbing applications

DG: G

Type	RF 50 bottom	RF 50 back	RF 63 bottom	RF 63 back	RF 80 bottom	RF 100 bottom	HY 100 bottom	
Version								
Housing-Ø	50	50	63	63	80	100	100	
Housing	Black ABS, highly impact resistant and corrosion resistant							
Meas. elem.	Bourdon tube element, copper alloy							
Accuracy class	2.5	2.5	2.5	2.5	2.5	1.6	1.6	
Connection	G ¹ / ₄ B	G ¹ / ₄ B	G ¹ / ₄ B	G ¹ / ₄ B	G ¹ / ₂ B	G ¹ / ₂ B	G ¹ / ₂ B	
Thread	Self-sealing with PTFE sealing ring							
						mit verstellbarem roten Markenzeiger	Doppelskala bar/mWS	
Range (bar)	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
Price €								
-1/0	---	---	---	---	---	---	---	
0/0,6	---	---	---	---	---	---	63281	
0/1	---	---	---	---	---	---	63282	
0/1,6	---	---	---	---	---	63610	63283	
0/2,5	---	---	63511	63536	63561	63611	63284	
0/4	---	---	63512	63537	63562	63612	63285	
0/6	63122	63127	63513	63538	63563	63613	63286	
0/10	63123	63128	63514	63539	63564	63614	63287	
0/16	63124	63129	63515	63540	63565	63615	---	
0/25	---	---	---	---	63566	63616	---	
Type	HZ 50 back	HZ 63 bottom	HZ 63 back	HZ 63 bottom	HZ 63 back	HZ 80 bottom	HZ 80 back	
Version								
Housing-Ø	50	63	63	63	63	80	80	
Housing	Black ABS, highly impact resistant and corrosion resistant							
Meas. elem.	Bourdon tube element, copper alloy							
Range	0/4 bar							
Dial	with red mark at 3 bar and green sector from 1.5 to 3 bar							
Front glass	with adjustable red reference pointer and green flag							
Accuracy class	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Connection	G ¹ / ₄ B	G ³ / ₈ B	G ³ / ₈ B	G ¹ / ₄ B	G ¹ / ₄ B	G ¹ / ₂ B	G ¹ / ₄ mit Ventil G ¹ / ₄ x G ¹ / ₂	
Thread	Self-sealing with PTFE sealing ring							
Price €								
Part no.	63927	63910	63914	63911	63915	63918	63919	
Dial	with red mark at 2.5 bar and green sector from 1.5 to 2.5 bar							
Price €								
Part no.	---	63908	63909	---	---	---	---	