

# Capsule Gauge for Low Pressure

## Bayonet Ring Case Stainless Steel

**KPCh 63**  
**KPChG 63**

### Standard Versions

Information on general and metrological features (load limits / temperature limitations) and standard pressure ranges / scale divisions can be found in model overview 6000.

#### Accuracy (EN 837-3)

Class 1.6

#### Case

with bayonet ring, 1.4301 (304 stainless steel)

#### Case Protection Type (EN 60 529 / IEC 529)

IP 44 for model KPCh with bottom connection  
IP 54

#### Case Ventilation

Model ...G Blow-out plug  
Ventilation required for internal pressure compensation

#### Case Filling

for model KPChG: Glycerine

#### Nominal Case Size

63 (mm) (2½")

#### Wetted Parts

Type -1: Connection: brass  
Diaphragm capsule: CuBe-alloy  
O-ring sealing: NBR

Type -3: Connection: 1.4571 (316 stainless steel)  
Diaphragm capsule: 1.4571 (316 stainless steel)  
O-ring sealing: FPM

#### Case Configuration

Connection: screwed  
Position of the connection: bottom connection,  
optional: centre back connection (rm)  
Mounting device: without, optional back flange for  
surface mounting (Rh) / front flange  
for panel mounting (Fr), see page 2

#### Pressure Ranges (EN 837-3)

KPChg 0- 25 mbar (0-10 "WC) to 0-600 mbar (0-250 "WC)  
KPChgG 0-100 mbar (0-40 "WC) to 0-600 mbar (0-250 "WC)

#### Process Connection

G ¼ B (¼" BSP)

#### Window

KPCh Instrument glass for type -1  
Laminated safety glass for type -3  
Specifics for case configuration Fr  
Polycarbonate (punched for zero adjustment)

KPChG Polycarbonate (punched for zero adjustment)

#### Movement

Brass / German silver for type -1  
Stainless steel for type -3

#### Dial

Aluminium, black figures, white background



#### Pointer

Aluminium, black

#### Zero Adjustment

Frontsided

### Ordering Information, Standard Pressure Ranges, Options

see pages 3 and 4

### Special Versions and further Options among others

- Other process connections upon request
- Other pressure ranges and / or special scales, e.g. double scale mbar/kPa, coloured fields or areas, dial inscriptions, negative scale etc.
- Case parts 1.4404 (316 L stainless steel) upon request
- Increased case protection type, e.g. IP 65 upon request
- Wetted parts free of grease and oil for type -3 upon request
- Oxygen version for type -3 without case filling upon request
- Execution for higher medium temperatures upon request
- Position of the connection radial at 3 o'clock, 9 o'clock, 12 o'clock (others upon request) or position of connection other than vertical installation (90°) for types without case filling
- GOST-version for Russia, Ukraine, Kazakhstan

### Accessory

see catalogue heading 11



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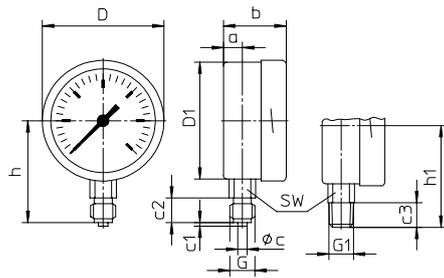
# Case Configurations, Code Letters, Dimensional Data and Weights, Blow-out Device

## Bottom connection

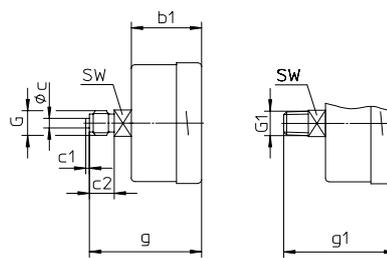
## Centre back connection

### no mounting device

(no additional code letter)

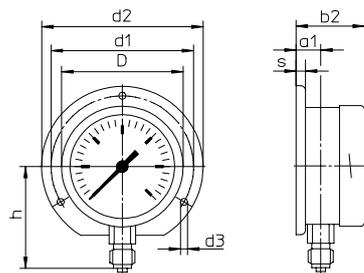


code letters: **rm**

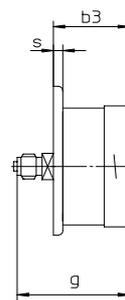


### with back flange for surface mounting

code letters: **Rh**



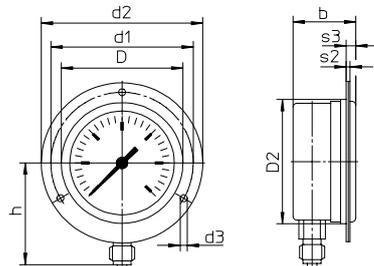
code letters: **rmRh**



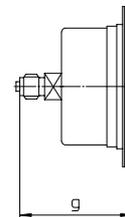
(available upon request, but according to EN-837-3 not recommended)

### with front flange for panel mounting

code letters: **Fr**



code letters: **rmFr**



(available upon request, but according to EN-837-3 not recommended)

**Front flange** for panel mounting with slotted holes, separate cover ring, recommended panel cut out:  $\varnothing 67 \pm 0.3$  mm (0.01")

## Dimensional Data (mm/inches) and weights (kg/lb)

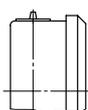
NCS	a	a1	b	b1	b2	b3	c	c1	c2	c3	D	D1	D2	d1	d2	d3	G	G1
63 Model KPCh	10 .4	13 .51	38 1.5	37 1.46	41 1.61	40 1.57	5 .2	2 .08	13 .51	13 .51	64 2.52	62 2.44	66 2.6	75 2.95	85 3.35	3.6 .14	G 1/4 B (1/4" BSP) M 12x1.5	1/4" NPT
63 Model KPChG	10 .4	13 .51	47 1.85	37 1.46	50 1.97	40 1.57	5 .2	2 .08	13 .51	13 .51	64 2.52	62 2.44	66 2.6	75 2.95	85 3.35	3.6 .14	G 1/4 B (1/4" BSP) M 12x1.5	1/4" NPT
10-times üs 63 Model KPCh Model KPChG	10 .4	13 .51	47 1.85	47 1.85	50 1.97	50 1.97	5 .2	2 .08	13 .51	13 .51	64 2.52	62 2.44	66 2.6	75 2.95	85 3.35	3.6 .14	G 1/4 B (1/4" BSP) M 12x1.5	1/4" NPT

NCS	g	g1	h <sup>±1</sup>	h1 <sup>±1</sup>	s	s1	s3	SW	approx. weight <sup>1)</sup>
63 Model KPCh	60 2.36	60 2.36	54 2.13	54 2.13	5 .2	2 .08	5.5 .22	14 .55	0.2 / 0.44
63 Model KPChG	60 2.36	60 2.36	54 2.13	54 2.13	5 .2	2 .08	5.5 .22	14 .55	0.26 / 0.57
10-times üs 63 Model KPCh Model KPChG	70 2.76	70 2.76	54 2.13	54 2.13	5 .2	2 .08	5.5 .22	14 .55	0.21 / 0.46 0.26 / 0.57

<sup>1)</sup> Information for version without mounting device

## Blow-out device

Model KPChG  
Blow-out plug 19



## Ordering Information with Standard Pressure Ranges, Options

Basic Model:		Capsule Gauge for Low Pressure, Bayonet Ring Case				KPCh
Case Filling:	without					without code letters
	glycerine					<b>G</b>
Nominal Case Size:	case- Ø 63 (mm) (2½")				<b>63</b>	
Wetted Material:	copper alloy				<b>-1</b>	
	stainless steel				<b>-3</b>	
Case Configuration:	case / connection	screwed			without code letters	
	position of the connection	bottom			without code letters	
		centre back			<b>rm</b>	
	mounting device	without			without code letters	
	back flange for surface mounting			<b>Rh</b>		
	front flange for panel mounting			<b>Fr</b>		
Pressure Ranges:	mbar			inchWC		
	Vacuum	Compound Ranges	Pressure	Vacuum	Compound Ranges	Pressure
	-25 - 0	-10 - 15	0 - 25	-10 - 0	-4 - 6	0 - 10
		-15 - 10			-6 - 4	
	-40 - 0	-15 - 25	0 - 40	-16 - 0	-6 - 10	0 - 16
		-25 - 15			-10 - 6	
	-60 - 0	-20 - 40	0 - 60	-25 - 0	-10 - 15	0 - 25
		-40 - 20			-15 - 10	
	-100 - 0	-40 - 60	0 - 100	-40 - 0	-15 - 25	0 - 40
		-60 - 40			-25 - 15	
	-160 - 0	-60 - 100	0 - 160	-60 - 0	-20 - 40	0 - 60
		-100 - 60			-40 - 20	
	-250 - 0	-100 - 150	0 - 250	-100 - 0	-40 - 60	0 - 100
	-150 - 100			-60 - 40		
-400 - 0	-150 - 250	0 - 400	-160 - 0	-60 - 100	0 - 160	
	-250 - 150			-100 - 60		
-600 - 0	-200 - 400	0 - 600	-250 - 0	-100 - 150	0 - 250	
	-400 - 200			-150 - 100		
Process Connection:	standard thread	G ¼ B (¼" BSP)			<b>G ¼ B</b>	
	options:	¼" NPT			<b>¼" NPT</b>	
		M12x1.5			<b>M 20 x 1.5</b>	
		G ⅜ B (⅜" BSP)			<b>G ⅜ B</b>	
		⅜" NPT			<b>⅜" NPT</b>	
		M10x1			<b>M10x1</b>	
Options:	see page 4					
<b>Example:</b>						

KPCh 63-1, 0-160 mbar, G ¼ B

