Capsule Gauge for Low Pressure

Bayonet Ring Case Stainless Steel



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) (21/2")

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 1/4 B (1/4" 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
- Oxigen 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

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• GOST-version for Russia, Ukraine, Kazakhstan

Accessory

see catalogue heading 11



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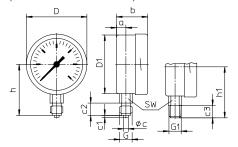
Case Configurations, Code Letters, Dimensional Data and Weights, Blow-out Device

Bottom connection

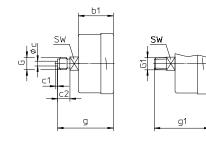
Centre back connection

no mounting device

(no additional code letter)

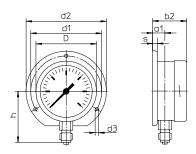


code letters: rm

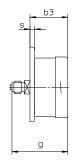


with back flange for surface mounting

code letters: Rh



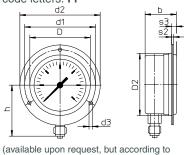
code letters: rmRh



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

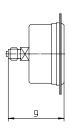
with front flange for panel mounting

code letters: Fr



EN-837-3 not recommended)

code letters: rmFr



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

Dimensional Data (mm/inches) and weights (kg/lb)																		
NCS	а	a1	b	b1	b2	b3	С	с1	c2	сЗ	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	.08	13 .51	13 . 51	64 2.52	62 2.44	66 2.6	75 2.95	85 3.35	3.6 .14	G ¼ B (¼" 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	.08	13 .51	13 .51	64 2.52	62 2.44	66 2.6	75 2.95	85 3.35	3.6 .14	G ¼ B (¼" BSP) M 12x1.5	14" 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 ¼ B (¼" BSP) M 12x1.5	1/4" NPT

NCS	g	g1	h±1	h1±1	s	s1	s3	SW	approx. weight1)
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

1) 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 Ga	uge for Lo	w Pı	essure, Bay	onet Ring Ca	ase		KPCh
Case Filling:	without							without code letters
rade i milig.	glycerine							G
	3., 3010	-						
Nominal Case Size:	case- Ø 63 ((mm) (2½")						63
Wetted Material:	copper alloy	-1						
	stainless ste	-3						
Case Configuration:	case / conne	ection		screwe	without code letters			
	position of the	ne		bottom				without code letters
	connection			centre	раск			rm
	mounting de	wice		without	}			without code letters
	mounting ac	, v 100				ace mounting		Rh
					ange for pane			Fr
					. J	3		
Pressure Ranges:		mbar						
	Vacuum	Compour	nd	Pressure	Vacuum	Compound	Pressure	
		Ranges				Ranges		
	-25 - 0	-10 -	15		-10 - 0	-4 - 6		
	400	-15 -	10		10 0	-6 - 4		
	-40 - 0	-15 - -25 -	25 15		-16 - 0	_6 - 10 _10 - 6		
	-60 - 0	-20 -	40		-25 - 0	-10 - 6 -10 - 15		
	-00 - 0	-40 -	20		-23 - 0	-15 - 10		
	-100 - 0	-40 -	60		-40 - 0	-15 - 25		
		-60 -	40			- 25 - 15		
	-160 - 0	-60 -	100	0 – 160	-60 - 0	-20 - 40	0 – 60	
		-100 -	60			-40 - 20		e.g. 0-160 mbar
	-250 - 0	_	150		− 100 − 0	-40 - 60		
			100			<u>-60 - 40</u>		
	-400 - 0		250		-160 <i>-</i> 0	-60 - 100		
	-600 - 0		150 400		-250 - 0	-100 - 60 -100 - 150		
	-600 - 0		200		-250 - 0	-100 - 150 -150 - 100		
		-4 00 -	200			-130 - 100		
Process Connection:	standard thr	ead G 1	4 B ((1/4" BSP)				G 1/4 B
	options:	1/4" NPT						
		M 20 x 1.5						
		G 1/4 B						
			NPT			1/8" NPT		
		MIT	0x1					M10x1
Options:	see page 4							
	1 0							

Further Options regarding Ordering Information

Decis Medal	0	I D			KDOL	
Basic Model: Model Code:	Capsule Gauge for	Low Pressure, Bayo	onet Ring Case		KPCh	
Options:	red mark	on the dial			see page 3	
opuons.	stationary	on the dial,				
	red pointer	adjustable when ren				
		,				
	stationary	adjusting mechanism				
	red pointer	screwed with window				
			adjustable externally			
				non-removable key		
		adjusting mechanism	n stainless steel			
		screwed with window	adjustable externally	romovabla kov		
			adjustable externally	non-removable key		
				non removable key		
	maximum	adjusting mechanism				
	drag indicator	screwed with window				
	measuring span 160 mbar and above		adjustable externally	removable key		
	and above			non-removable key		
	clockwise rotary pointer	adjusting mechanism	n stainless steel			
	motion; for vibration-free application	screwed with window	adjustable outernally	romovoblo kov		
			adjustable externally	non-removable key		
				non-removable key		
	special adjustment					
	blow-out plug 24 (red	closable)1)				
	case ventilation no. 2		tion 1)			
	case polished					
	bayonet ring polished					
	silicone-free version	·"· ~ ~ ~ ~ /o	0.411)			
	restrictor screw in pressure inlet port material: as process connection, brass or	orifice Ø 0.3 mm (0.				
					(
					(order at the moment still as cleartext)	
	stainless steel		Suii as cleartext)			
	overrange protection	on (üs) and / or low p				
		for types -1				
		(copper alloy)		25 mbar and above		
			10-times us -100-	0 mbar and above		
		combination	mes us			
		Combination	only for gauge-vacuu			
			100 mbar (40 "WC) a			
		for types -3	3-times üs or us ³⁾	25 1		
		(stainless steel)		25 mbar and above 0 mbar and above		
			10-times us -100-	o mbar and above		
		combination				
			only for gauge-vacuu 40 mbar (16 "WC) an	d above		
		Me and the control of the	. 10	0.4711/		
	measuring point marking	·	e 12 mm x 55 mm (0.47")	(2.17"), wire mounting		
	marking	or sticker on the cas				

Special Versions: Please describe your requirements clearly only for version -1 and span 100 mbar and above max. - 1000 mbar only for dry versions