



## Sample gas probe GAS 222.11

In many applications gas analysis is the key for safe and efficient control of process flows, environmental protection and quality assurance. In extractive gas analysis the location of the gas sampling point is crucial for the reproducibility and accuracy of the analysis results.

The specific filter capacity, corrosion resistance and functional equipment requirements for the probe arise from the composition of the sample gas.

However, operating costs are also an important criterion in the selection, as the sampling points are frequently located at hard to access points in the system. Effective particle filter backwashing options and low maintenance characterise the extensive GAS probe series.

Unheated probe with shut-off valve and/or upstream filter

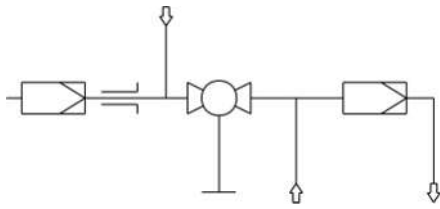
The filter element can easily be removed by turning the handle 90°

For dust loads up to 2 g/m<sup>3</sup>, non-condensable gases. Combined with upstream filter up to 10 g/m<sup>3</sup> and higher

The probe is suitable for use in explosive areas



Flow chart



Technical Data

Gas Probe Technical Data

Probe operating temperature:	max. 200 °C	
Ambient temperature without accessories:	-20 to +80 °C	
Ambient temperature with accessories:	<b>Component</b>	<b>Ambient temperature range</b>
	Compressed air valve:	-10 °C < T <sub>amb</sub> < +55 °C
	Pneumatic drive:	-20 °C < T <sub>amb</sub> < +80 °C
	Limit switch:	-20 °C < T <sub>amb</sub> < +100 °C
	Solenoid valve for pneumatic drive:	-10 °C < T <sub>amb</sub> < +55 °C
Medium temperature (blowback):	<b>Component</b>	<b>Medium temperature range</b>
	Compressed air valve:	-10 °C to +80 °C
	Solenoid valve for pneumatic drive:	-10 °C to +100 °C
Max. operating pressure:	6 bar	
Materials in contact with media		
Flange:	Stainless steel 1.4571	
Probe body:	Stainless steel 1.4571	
Ball valve:	Stainless steel 1.4408/1.4462/PTFE	
Seal:	Stainless steel 1.4404/graphite/and see filter	

**Ordering Instructions**

The item number is a code for the configuration of your unit. Please use the following model key:

4622211	X	9	9	0	0	X	0	0	X	X	X	X	X	X	<b>Product Characteristics</b>
															<b>Flange</b>
	0														DIN DN65 PN6
	2														ANSI 3"-150 lbs - without CSA C & US approval
															<b>Power supply sample probe</b>
			0												none
															<b>Calibrating gas connection</b>
		0													No calibrating gas connection
		1													6 mm
		2													6 mm + check valve
		3													1/4"
		4													1/4" + check valve
															<b>Connection heated extension</b>
			0												No
															<b>Built-in temperature controller for heated extension</b>
			0												No
															<b>Blowback with air reservoir <sup>1)</sup></b>
															<b>Air reservoir heating</b>
				1											Yes
				9											No
															<b>Built-in blowback control</b>
					9										No
															<b>Compressed air valve / valve voltage information</b>
						0									Manual
						1									115 V
						2									230 V
						3									24 V
						9									None (if no blowback requested)
															<b>Pneumatic drive for ball valve</b>
							1								Monostable pressure-free open
							2								Monostable pressure-free closed
							3								Bi-stable
							9								None
															<b>Limit switch for pneumatic drive</b>
								1							Yes
								9							No
															<b>Control valve for pneumatic drive</b>
									3						3/2-way valve
										5					5/2-way valve <sup>2)</sup>
											9				No control valve

<sup>1)</sup> In the case of flammable gases, always use inert gas for blowback. Probe blowback prohibited when using explosive sample gas!

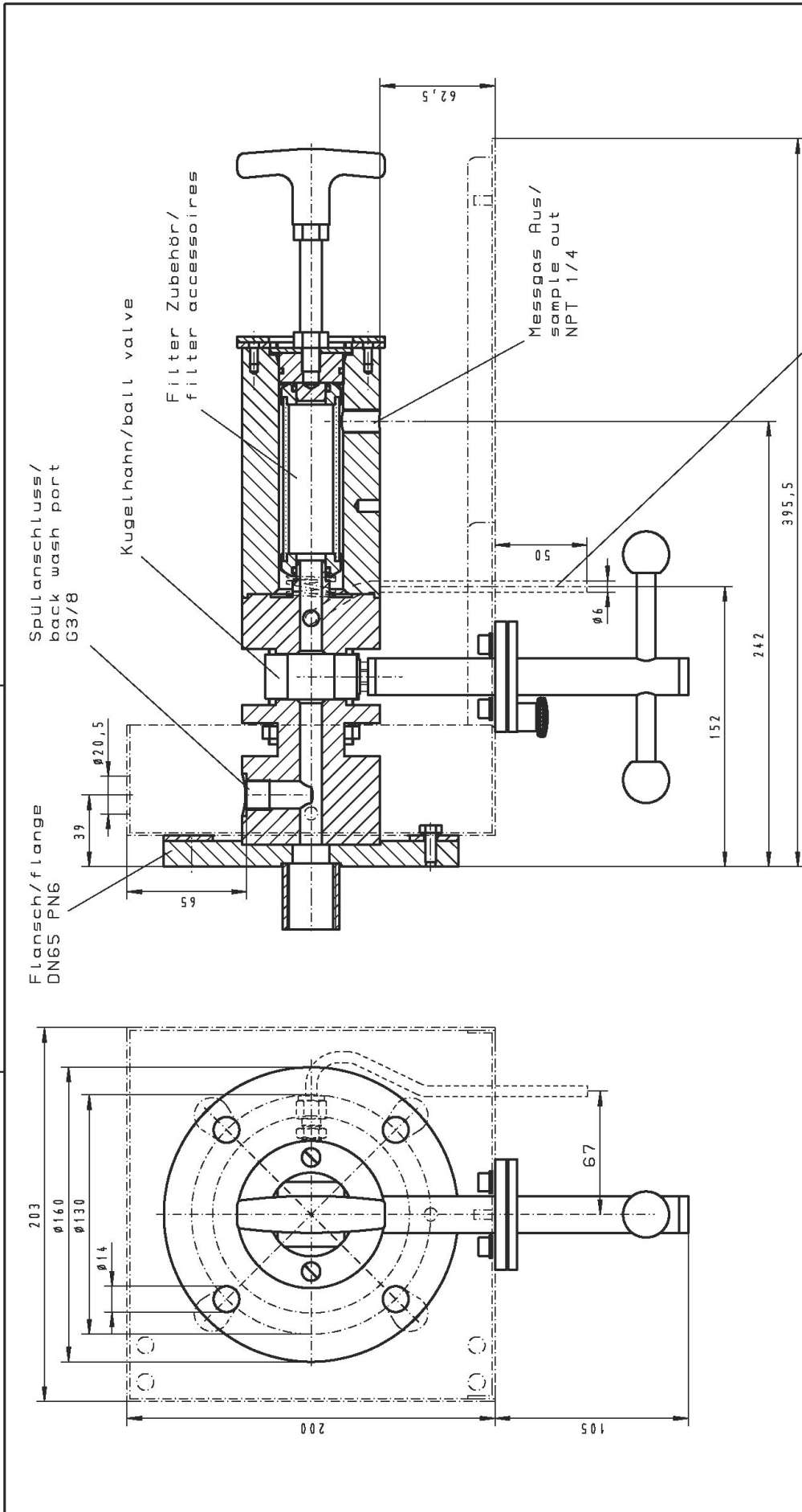
<sup>2)</sup> Only possible with ball valve in combination with bistable pneumatic drive.

**Options**

The base unit becomes functional by adding accessories suitable for the application. Please refer to accessory data sheet no. 461099 for information.

Please also refer to data sheet no. 461000 "GAS 222 Gas Probes" for a general description.

Dimensions



Option Kalibriergasanschluss/  
option calibration gas port

<b>Werkstoffe/materials</b> -Flansch, Körper / flange, body -Kugelhahn / ball valve Betriebstemperatur Sonde / operating temperature probe Steuerdruck Pneumatikzylinder / pilot pressure pneumatic actuator		1.4571 1.4408 / 1.4462 / PTFE max. 200 °C / 392 °F 6 bar
<b>©</b> -Flansch, Körper / flange, body -Kugelhahn / ball valve Betriebstemperatur Sonde / operating temperature probe Steuerdruck Pneumatikzylinder / pilot pressure pneumatic actuator		1.4571 1.4408 / 1.4462 / PTFE max. 200 °C / 392 °F 6 bar
<b>ALLE RECHTEN VORBEHALTEN</b> Maße ohne Toleranzangabe nach ISO 2768-mK		Maßstab 1:2 (Gewicht) Werkstoff: Benennung: <b>Gasentnahmesonde</b> <b>sample gas probe</b> <b>GAS 222.11</b> Zeichng.-Nr. 46/061-01-3C Art.-Nr. 4622211 ARBEITSAUSSAGE:
alle Kanten prägefrei Oberflächenbearbeitungszustand		Datum Name Bearb. 14.08.99 Brinkmann Gepr. 28.08.2023
= <input checked="" type="checkbox"/> $\sqrt{\quad}$ x = <input checked="" type="checkbox"/> $\sqrt{\quad}$ y = <input checked="" type="checkbox"/> $\sqrt{\quad}$ z = <input checked="" type="checkbox"/> $\sqrt{\quad}$	g 1x 23.08.23 Br f KH 10.12.08 Br Zust. End. Datum Name Ers. für	BUHLER

**Dimensions (ANSI flange)**

**NOTICE! ANSI flange only available without CSA approval.**

