Sample gas probe GAS 222.30 Ex2

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.

- Versions with Atex and IECEx approval
- Unheated probe with shut-off valve and upstream filter
- For dust loads up to 200 g/m³, non-condensable gases
- The probe is permitted for use in explosive areas

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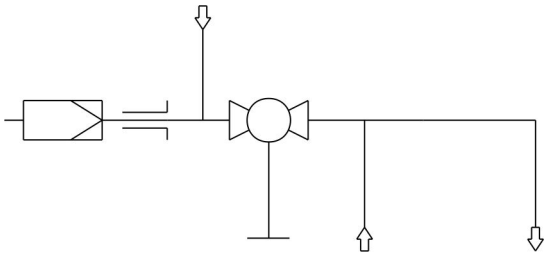
Flow chart



Technical Data

Gas Probe Technical Data

Ambient temperature without accessories:	-20 to +80 °C	
Ambient temperature for accessories:	**Component**	**Ambient temperature range**
	Valve for pressurized air:	-30 °C < T_{amb} < +55 °C
	Solenoid valve for pneumatic actuator:	-10 °C < T_{amb} < +55 °C
	Pneumatic actuator:	-20 °C < T_{amb} < +80 °C
	Limit switch:	-25 °C < T_{amb} < +60 °C
	Junction box:	-20 °C < T_{amb} < +70 °C
Max. gas inlet temperature:	+195 °C (T3)/+130 °C (T4)	
Medium temperature (blowback):	**Component**	**Medium temperature range**
	Valve for pressurized air:	-10 °C to +80 °C
	Solenoid valve for pneumatic actuator:	-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	
Markings:	ATEX: Ⓔx II 3G Ex ec mb IIC T3/T4 Gc IECEx: Ex ec mb IIC T3/T4 Gc	

Ordering instructions

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

4622230	X	X	X	X	X	X	0	0	X	X	X	X	X	X	Product characteristics
															Junction box
	0														No
	1														Yes
															Flange
		0	1												Flange DN65 PN6
		0	2												Flange DN3"-150
															Hazardous area Outside and Inside
				2	9										Ex-Zone 2 outside, none inside
				2	2										Ex-Zone 2 outside and inside
															Temperature class
						3									T3
						4									T4
															Power supply sample probe
							0								none
															Calibration gas port
									0						No
									1						6 mm
									2						6 mm with check valve
									3						1/4"
									4						1/4" with check valve
															Capacitive vessel *
										0					No
										1					Yes
															Valve for pressurized air *
											0				Ball valve
											1				Solenoid valve 110 V (marked with "mb")
											2				Solenoid valve 230 V (marked with "mb")
											3				Solenoid valve 24 V (marked with "mb")
											9				none
															Pneumatic actuator for internal ball valve
												0			No
												1			Mono stable depressurized open
												2			Mono stable depressurized closed
															Limit switch for pneumatic actuator
													0		No
													1		Yes
															Solenoid valve for pneumatic actuator
														0	No
														1	110 V (marked with "mb")
														2	230 V (marked with "mb")
														3	24 V (marked with "mb")

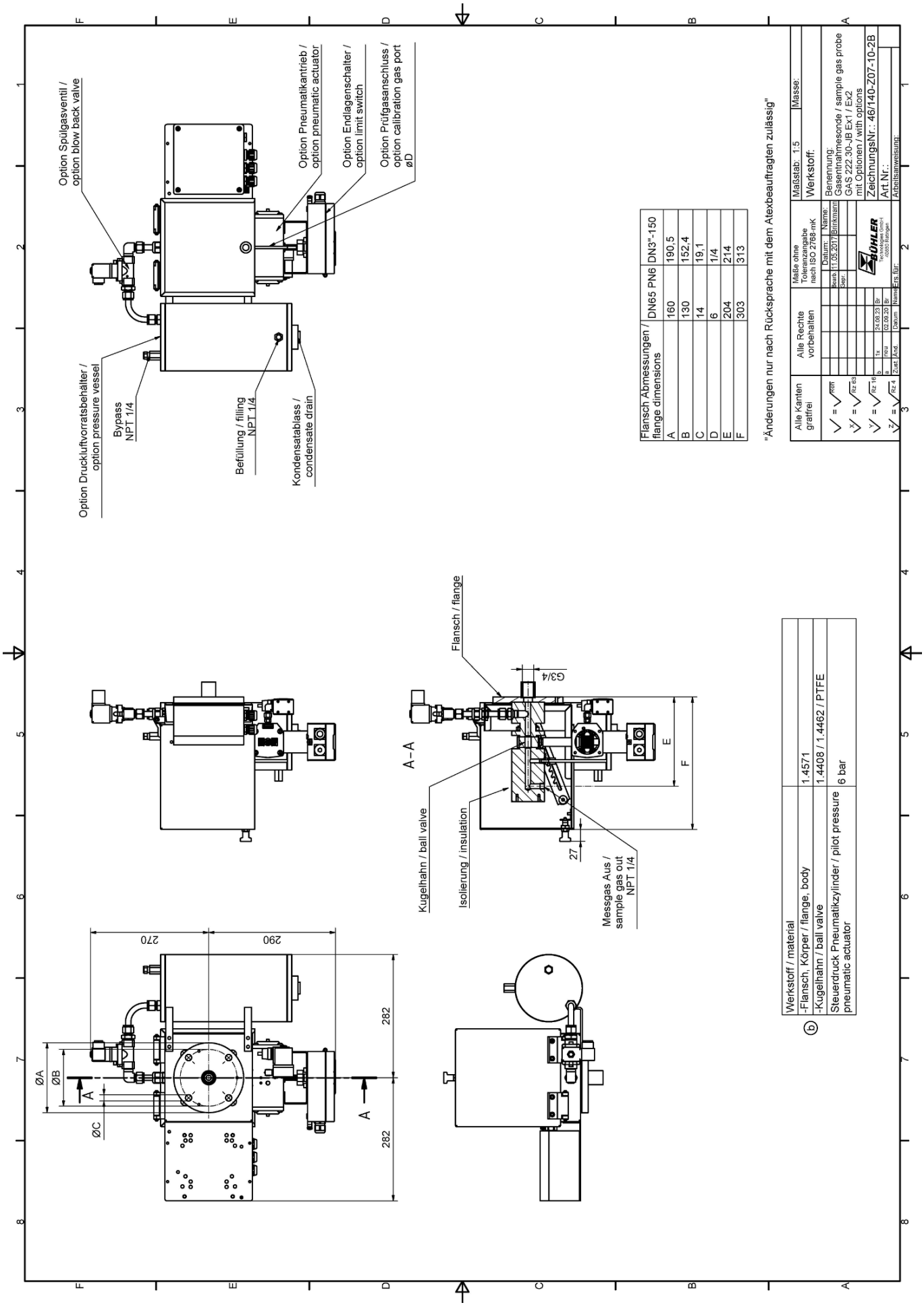
* Blowback of explosive atmosphere prohibited.

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 Spülgasventil / option blow back valve
Option Pneumatikantrieb / option pneumatic actuator
Option Endlagenschalter / option limit switch
Option Prüfgasanschluss / option calibration gas port ØD
Option Druckluftvorratsbehälter / option pressure vessel
Bypass NPT 1/4
Befüllung / filling NPT 1/4
Kondensatablass / condensate drain
Flansch Abmessungen / flange dimensions
DN65 PN6
DN3"-150
A 160 190,5
B 130 152,4
C 14 19,1
D 6 1/4
E 204 214
F 303 313
"Änderungen nur nach Rücksprache mit dem Atexbeauftragten zulässig"
Flansch / flange
G3/4
A–A
Kugelhahn / ball valve
Isolierung / insulation
Messgas Aus / sample gas out NPT 1/4
27
E
F
270
290
282
282
ØA
ØB
ØC
A
A
Werkstoff / material
-Flansch, Körper / flange, body 1.4571
-Kugelhahn / ball valve 1.4408 / 1.4462 / PTFE
Steuerdruck Pneumatikzylinder / pilot pressure pneumatic actuator 6 bar
ⓑ
Alle Kanten gratfrei
Alle Rechte vorbehalten
Maße ohne Toleranzangabe nach ISO 2768-mK
Maßstab: 1:5
Masse:
Werkstoff:
Benennung: Gasentnahmesonde / sample gas probe GAS 222.30-JB Ex1 / Ex2 mit Optionen / with options
ZeichnungsNr.: 46/140-Z07-10-2B
Art.Nr.:
Arbeitsanweisung:
BÜHLER
Bearb. 11.05.2017 Blinkmann
Datum Name
Ers. für:
Zust. Änd. Datum Name
a neu 02.09.20 Br
b 1x 24.08.23 Br