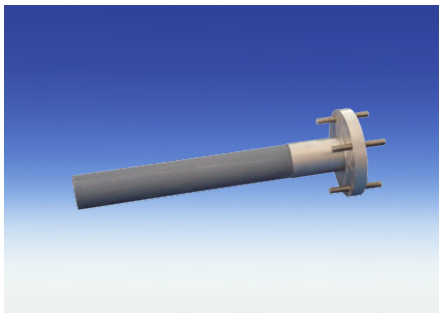
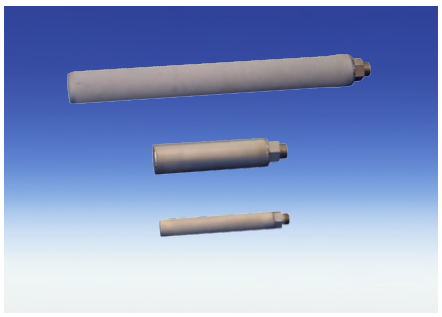
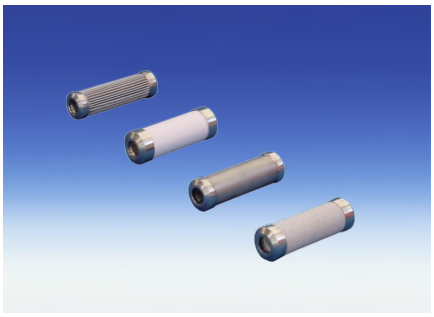
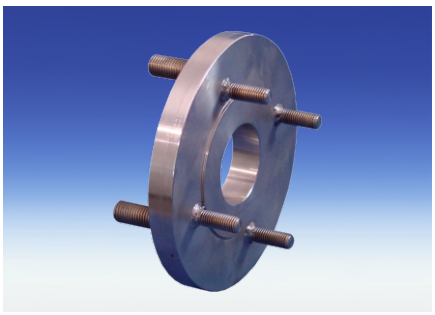
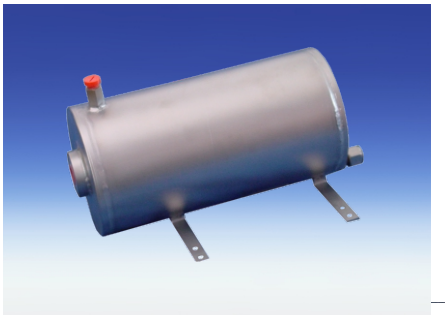
Accessories for Sample Gas Probe GAS 222

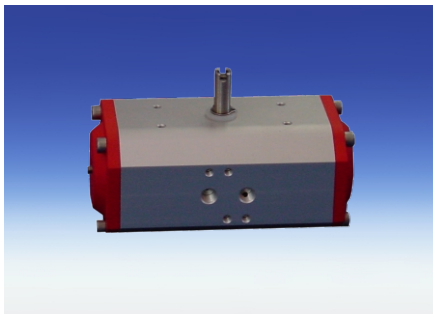












- **Sample tubes**
- **In-situ filters**
- **Extensions**

Page 2 - 4

- **Downstream filters**
- **Cal gas connections**
- **Adapter flanges**

Page 8

- **Capacitive vessel**
- **Pneumatic actuators**
- **3/2-way-solenoid valves**
- **Blowback controllers**

Page 5 - 7

For general information, see data sheet “Sample gas probes GAS 222” DE461000.

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Sample tubes, in-situ filters and extensions

- Various materials
- Various dimensions
- Heated or nonheated extensions

Sample tube					222.10	222.11	222.30	222.35-U	222.15	222.17	222.20	222.21	222.31	222.35	222.20 DH	222.20 Atex	222.21 Atex	222.31 Atex	222.35 Atex	222.20 Atex2	222.21 Atex2	222.31 Atex2	222.35 Atex2	222.10 ANSI	222.11 ANSI/ CSA	222.30 ANSI/ CSA	222.35-U ANSI/ CSA	222.15 ANSI/ CSA	222.17 ANSI/ CSA	222.20 ANSI/ CSA	222.21 ANSI/ CSA	222.31 ANSI/ CSA	222.35 ANSI/ CSA	222.20 DH ANSI/ CSA	222.20 AMEX	222.21 AMEX	222.31 AMEX	222.35 AMEX	Type GAS
	Material	**T max.**	**Length**	**Part No.:**																																			
01	1.4571	600°C	300 mm	462220010300	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
01	1.4571	600°C	500 mm	462220010500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
01	1.4571	600°C	1000 mm	462220011000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
01	1.4571	600°C	1500 mm	462220011500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
01	1.4571	600°C	2000 mm	462220012000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
02	Ceramics / 1.4571	1600°C	0.5 m	4622200205	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
02	Ceramics / 1.4571	1600°C	1.0 m	4622200210	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
02	Ceramics / 1.4571	1600°C	1.5 m	4622200215	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
06	Hastelloy / 1.4571	400°C	500 mm	462220060500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
06	Hastelloy / 1.4571	400°C	1000 mm	462220061000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
06	Hastelloy / 1.4571	400°C	1500 mm	462220061500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
06	Hastelloy / 1.4571	400°C	2000 mm	462220062000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
08	Inconel / 1.4571	1050°C	500 mm	462220040500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
08	Inconel / 1.4571	1050°C	1000 mm	462220041000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
08	Inconel / 1.4571	1050°C	1500 mm	462220041500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
08	Inconel / 1.4571	1050°C	2000 mm	462220042000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
08	Inconel / 1.4571	1050°C	2500 mm	462220042500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
12	1.4571	600°C	500 mm	462220160500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
12	1.4571	600°C	1000 mm	462220161000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
12	1.4571	600°C	1500 mm	462220161500	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
12	1.4571	600°C	2000 mm	462220162000	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X		
13	Kanthal / 1.4571	1400°C	up to 1 m	46222017	X	X			X	X	X	X			X					X	X			X	X			X	X	X	X			X	X	X		
	Sample tube with demister PVDF/ETFE	120°C	800 mm	46222040	X	X			X	X	X	X			X									X	X			X	X	X	X			X				
	Demister ETFE / as spare part	120°C		462220402	X	X			X	X	X	X			X									X	X			X	X	X	X			X				
	Sample tube with demister / 1.4571	400°C	300 mm	4622204203	X	X			X	X	X	X			X									X	X			X	X	X	X			X				
	Sample tube with demister / 1.4571	400°C	500 mm	4622204205	X	X			X	X	X	X			X									X	X			X	X	X	X			X				
	Sample tube with demister / 1.4571	400°C	1000 mm	4622204210	X	X			X	X	X	X			X									X	X			X	X	X	X			X				
	Demister 1.4571 / as spare part	400°C		4611004	X	X			X	X	X	X			X									X	X			X	X	X	X			X				

Sample tubes, in-situ filters and extensions

- Various materials
- Various dimensions
- Heated or nonheated extensions

In-situ filter						222.10	222.11	222.30	222.35-U	222.15	222.17	222.20	222.21	222.31	222.35	222.20 DH	222.20 Atex	222.21 Atex	222.31 Atex	222.35 Atex	222.20 Atex2	222.21 Atex2	222.31 Atex2	222.35 Atex2	222.10 ANSI	222.11 ANSI/ CSA	222.30 ANSI/ CSA	222.35-U ANSI/ CSA	222.15 ANSI/ CSA	222.17 ANSI/ CSA	222.20 ANSI/ CSA	222.21 ANSI/ CSA	222.31 ANSI/ CSA	222.35 ANSI/ CSA	222.20 DH ANSI/ CSA	222.20 AMEX	222.21 AMEX	222.31 AMEX	222.35 AMEX	Type GAS
	Material	**T max.**	**Length**	**Pore size**	**Part No.:**																																			
03	stainless steel	600°C	237 mm	5 µm	46222303		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
03F	stainless steel	600°C	237 mm	0.5 µm	46222303F*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
03H	Hastelloy	600°C	237 mm	5 µm	46222303H*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
03HF	Hastelloy	600°C	237 mm	0.5 µm	46222303HF*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
031	stainless steel, with volume displacer	600°C	237 mm	5 µm	462223031		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
031F	stainless steel, with volume displacer	600°C	237 mm	0.5 µm	462223031F*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
031H	Hastelloy, with volume displacer	600°C	237 mm	5 µm	462223031H*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
031HF	Hastelloy, with volume displacer	600°C	237 mm	0.5µm	462223031HF*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
04	stainless steel	600°C	538 mm	5 µm	46222304		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
04F	stainless steel	600°C	538 mm	0.5 µm	46222304F*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
04H	Hastelloy	600°C	538 mm	5 µm	46222304H*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
04HF	Hastelloy	600°C	538 mm	0.5 µm	46222304HF*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
041	stainless steel, with volume displacer	600°C	538 mm	5 µm	462223041		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
041F	stainless steel, with volume displacer	600°C	538 mm	0.5 µm	462223041F*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
041H	Hastelloy, with volume displacer	600°C	538 mm	5 µm	462223041H*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
041HF	Hastelloy, with volume displacer	600°C	538 mm	0.5 µm	462223041HF*		X	X					X	X				X	X			X	X			X	X						X	X				X	X	
07	Ceramics / 1.4571	1000°C[1)]	478 mm	2 µm	46222307		X	X					X	X				X	X			X	X																	
07F	Ceramics / 1.4571	1000°C[1)]	478 mm	0.3 µm	46222307F*		X	X					X	X				X	X																					
07 ANSI	Ceramics / 1.4571	1000°C[1)]	478 mm	2 µm	46222307C																					X	X						X	X				X	X	
35	stainless steel	600°C	229 mm	5 µm	46222359				X						X					X				X				X							X					X
35F	stainless steel	600°C	229 mm	0.5 µm	46222359F*				X						X					X				X				X							X					X

1) Hot gas filtration, oxidizing atmosphere max. 750 °C
Hot gas filtration, reductive atmosphere max. 600 °C

* Prices and delivery time on request

Sample tubes, in-situ filters and extensions

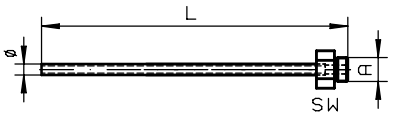
- Various materials
- Various dimensions
- Heated or nonheated extensions

					Part No.:	222.10	222.11	222.30	222.35-U	222.15	222.17	222.20	222.21	222.31	222.35	222.20 DH	222.20 Atex	222.21 Atex	222.31 Atex	222.35 Atex	222.20 Atex2	222.21 Atex2	222.31 Atex2	222.35 Atex2	222.10 ANSI	222.11 ANSI/ CSA	222.30 ANSI/ CSA	222.35-U ANSI/ CSA	222.15 ANSI/ CSA	222.17 ANSI/ CSA	222.20 ANSI/ CSA	222.21 ANSI/ CSA	222.31 ANSI/ CSA	222.35 ANSI/ CSA	222.20 DH ANSI/ CSA	222.20 AMEX	222.21 AMEX	222.31 AMEX	222.35 AMEX	Type GAS
Protection shield					**Part No.:**																																		
for in-situ filter 03					462223034		X	X					X	X				X	X			X	X			X	X							X	X		
for in-situ filter 04					462223044		X	X					X	X				X	X			X	X			X	X							X	X		
Extensions																																							
Typ		Material	Mains voltage	Length																																			
G3/4	nonheated	1.4571		0.2 m	4622230320200	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		0.4 m	4622230320400	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		0.5 m	4622230320500	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		0.7 m	4622230320700	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		1 m	4622230321000	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		1,2 m	4622230321200	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		1,5 m	4622230321500	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G3/4	nonheated	1.4571		2 m	4622230322000	X	X	X		X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X	X	X	X		X	X	X	X	
G1/2	nonheated	1.4571		0,25 m	4622235910250				X						X					X				X				X						X					X
G1/2	nonheated	1.4571		0,5 m	4622235910500				X						X					X				X				X						X					X
G1/2	nonheated	1.4571		0,7 m	4622235910700				X						X					X				X				X						X					X
G1/2	nonheated	1.4571		1,5 m	4622235911500				X						X					X				X				X						X					X
GF	heated*	1.4571	230V	0.5 m	462223036							X	X	X																									
GF	heated*	1.4571	230V	1 m	462223033							X	X	X																									
GF	ANSI / CSA,heated*	1.4571	115V	0.5 m	462223036C1																											X	X	X					
GF	ANSI / CSA,heated*	1.4571	115V	1 m	462223033C1																											X	X	X					
Controller for heated extension integrated into probe controller					46222292							X	X	X																				X	X	X				

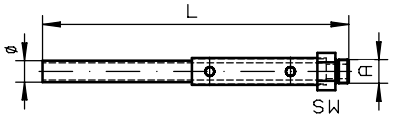
* Mounting is only possible at a plain flange without G3/4 thread. Therefore a G has to be added to the part number, e.g. 4622220G.
It is not possible to add a heated extension after delivery.

Entnahmerohre / tubes

Typ	L	ø	A	SW
01	var.	12	G3/4	36
06	var.	12	G3/4	36
08	var.	21,3	G3/4	36
12	var.	20	G3/4	36
13	var.	15	G3/4	36
14	var.	18	G3/4	36



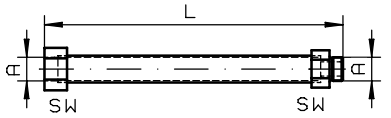
Typ	L	ø	A	SW
02-0,5	500	24	G3/4	36
02-1,0	1000	24	G3/4	36
02-1,5	1500	24	G3/4	36

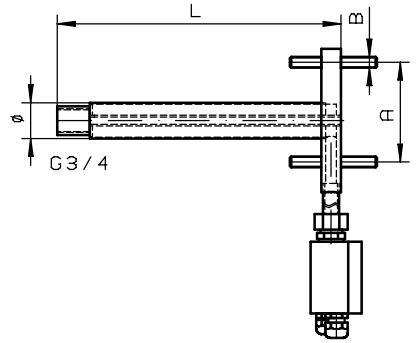


Verlängerungen / extensions

Unbeheizt / unheated

Typ	L	A	SW
G3/4	0,2-2 m	G3/4	36
G1/2	0,25-1,5m	G1/2	27



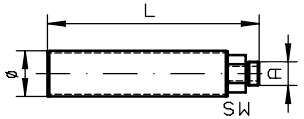


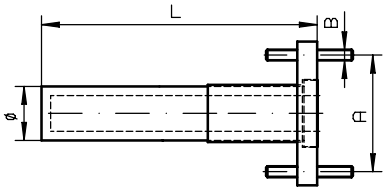
Beheizt / heated

Typ	L	ø	A	B
GF	500	40	DN65 PN6	M12
GF	1000	40	DN65 PN6	M12
GF ANSI/CSA	500	40	DN3"-150	M16
GF ANSI/CSA	1000	40	DN3"-150	M16

Eintritssfilter / in-situ filter

Typ	L	ø	A	SW
03	237	51	G3/4	36
031	237	51	G3/4	36
04	538	60	G3/4	36
041	538	60	G3/4	36
35	229	29	G1/2	27



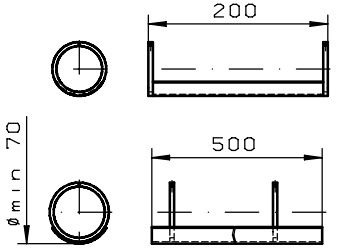


Typ	L	ø	A	B
07	500	60	DN65 PN6	M12
07 ANSI	500	60	DN3"-150	M16

Abweisblech / protection shield

Eintrittsfilter / in-situ filter 03

Eintrittsfilter / in-situ filter 04



alle Kanten gratfrei	ALLE RECHTE VORBEHALTEN				Maße ohne Toleranzangabe nach ISO 2768-mK			Maßstab 1 5	(Gewicht)
Oberflächenbearbeitungszeichen								Werkstoff	
						Datum	Name	Benennung	Rohre/Filter/Verlängerungen tubes/filter/extensions GAS 222
					Bearb	21 01 2004	Brinkmann		
					Gepr				
								Zeichng -Nr	46/107-Z01-01-3A
								Art -Nr	
a	neu	29 09 06	Br		BÜHLER				
Zust	Änd	Datum	Name		Ers für			ARBEITSANWEISUNG	

Blowback

- With ball valve or solenoid valve
- Heated or nonheated
- Manuell or automatic control

Capacitive vessel	Ambient temperature	Part No.:	222.10	222.11	222.30	222.35-U	222.15	222.17	222.20	222.21	222.31	222.35	222.20 DH	222.20 Atex	222.21 Atex	222.31 Atex	222.35 Atex	222.20 Atex2	222.21 Atex2	222.31 Atex2	222.35 Atex2	222.10 ANSI	222.11 ANSI/ CSA	222.30 ANSI/ CSA	222.35-U ANSI/ CSA	222.15 ANSI/ CSA	222.17 ANSI/ CSA	222.20 ANSI/ CSA	222.21 ANSI/ CSA	222.31 ANSI/ CSA	222.35 ANSI/ CSA	222.20 DH ANSI/ CSA	222.20 AMEX	222.21 AMEX	222.31 AMEX	222.35 AMEX	Type GAS
PAV 01		46222PAV		X	X	X				X	X	X			X	X	X		X	X	X		X	X	X				X	X	X			X	X	X
Accessories for capacitive vessel																																				
ball valve		46222PAVKH		X	X	X				X	X	X			X	X	X		X	X	X		X	X	X				X	X	X			X	X	X
2/2-way-MV 24VDC*	-10 ... +55°C	46222PAVMV1		X	X	X				X	X	X																								
2/2-way-MV 110V 50Hz	-10 ... +55°C	46222PAVMV2		X	X	X				X	X	X																								
2/2-way-MV 220-230V 50/60Hz	-10 ... +55°C	46222PAVMV3		X	X	X				X	X	X																								
2/2-way-MV 24VUC Atex II 2G/D EEx m II T4 IP65	-10 ... +60°C	46222PAVMV4		X	X	X									X	X	X		X	X	X															
2/2-way-MV 110VUC Atex II 2G/D EEx m II T4 IP65	-10 ... +60°C	46222PAVMV5		X	X	X									X	X	X		X	X	X															
2/2-way-MV 230VUC Atex II 2G/D EEx m II T4 IP65	-10 ... +60°C	46222PAVMV6		X	X	X									X	X	X		X	X	X															
2/2- way- AMEX 24 V/ 60 Hz Cl. I Div 2	-10 ... +55°C	46222PAVMV14																					X	X	X				X	X	X			X	X	X
2/2- way- AMEX 120 V/ 60 Hz Cl. I Div 2	-10 ... +55°C	46222PAVMV8																					X	X	X				X	X	X			X	X	X
2/2- way- AMEX 240 V/ 60 Hz Cl. I Div 2	-10 ... +55°C	46222PAVMV9																					X	X	X				X	X	X			X	X	X
self regulated heating system 115/230V 50/60Hz		46222PAVHZ1		X	X	X				X	X	X											X	X	X				X	X	X					
self regulated heating system 115-230V 50/60Hz Atex 2 II 3G Ex nA IIC T3 Gc X		46222PAVHZ2																	X	X	X															
self regulated heating system 115-230V 50/60Hz Atex 2 II 3G Ex nA IIC T4 Gc X		46222PAVHZ3																	X	X	X															
self regulated heating system AMEX,115-230V,50/60 Hz, Cl. I Div 2 B,C,D,T3		46222PAVHZ4																																X	X	X
self regulated heating system AMEX,115-230V,50/60 Hz, Cl. I Div 2 B,C,D,T4		46222PAVHZ6																																X	X	X
support of pressurised vessel		462223502				X																			X											
Bourdon tube pressure gauge 0-10 bar		46222PAVMA		X	X	X				X	X	X			X	X	X		X	X	X		X	X	X				X	X	X			X	X	X
Pneumatic actuators																																				
spring return, opened unpressurised		46222008		X	X					X	X				X	X			X	X			X	X					X	X				X	X	
spring return, closed unpressurised		46222030		X	X					X	X				X	X			X	X			X	X					X	X				X	X	
double action		46222009		X	X					X	X																									
limit switch		9008928		X	X					X	X																									
limit switch Atex II 2G/3D IIC T6 IP65		9008930													X	X			X	X																
limit switch Atex II 2G/2D IIC T6 IP65		9027002													X	X			X	X																
3/2-way-SV for controlling of pneumatic actuator																																				
24 VDC	-10 ... +55°C	46222075		X	X					X	X																									
110 V 50 Hz	-10 ... +55°C	46222076		X	X					X	X																									
230 V 50 Hz	-10 ... +55°C	46222077		X	X					X	X																									
ATEX 24 V UC II 2G/D EEx m II T4	-10 ... +60°C	46222078		X	X										X	X			X	X																
ATEX 110 V UC II 2G/D EEx m II T4	-10 ... +60°C	46222079		X	X										X	X			X	X																
ATEX 230 V UC II 2G/D EEx m II T4	-10 ... +60°C	46222080		X	X										X	X			X	X																
AMEX 24 V 60 Hz, NPT1/4", Cl. I Div 2	-10 ... +55°C	46222116																					X	X					X	X				X	X	
AMEX 120 V 60 Hz, NPT1/4", Cl. I Div 2	-10 ... +55°C	46222050																					X	X					X	X				X	X	
AMEX 240 V 60 Hz, NPT1/4", Cl. I Div 2	-10 ... +55°C	46222056																					X	X					X	X				X	X	
5/2-way-SV for controlling of pneumatic actuator	-10 ... +70°C	9148000117		X	X					X	X																									
Blowback controller																																				
RSS 24 VDC, IP65		46222199		X	X	X				X	X	X																								
RSS 115/230 VAC, IP65		46222299		X	X	X				X	X	X																								
RSS-MC integrated into probe controller cabinet		46222392								X	X	X																		X	X	X					

*max. pressure 6 bar

Details:

A) Blowback

Ordering note for capacitive vessel:

For attachment to GAS 222.11 / 30 / 35-U, a support is required.

Ordering note for pneumatic actuator:

If a blowback controller is required, only actuator P/N 46222030 is possible.

We advise the installation of a position indicator switch to control the pneumatic actuator.

Integrated blowback controller in the probe controller

In addition to the stand-alone blowback controller (RRS), an integrated blowback controller is optionally available

Blowback cycle time and actual blowback time can be adjusted via the keys and menu of the controller. The blowback and manual operation will be shown on the display. The blowback controller can be programmed via the keys – manual or automatic operation is possible. Besides the status output of the controller, a blowback status signal is provided. Blowback will be usually initiated by signals coming from the main controls.

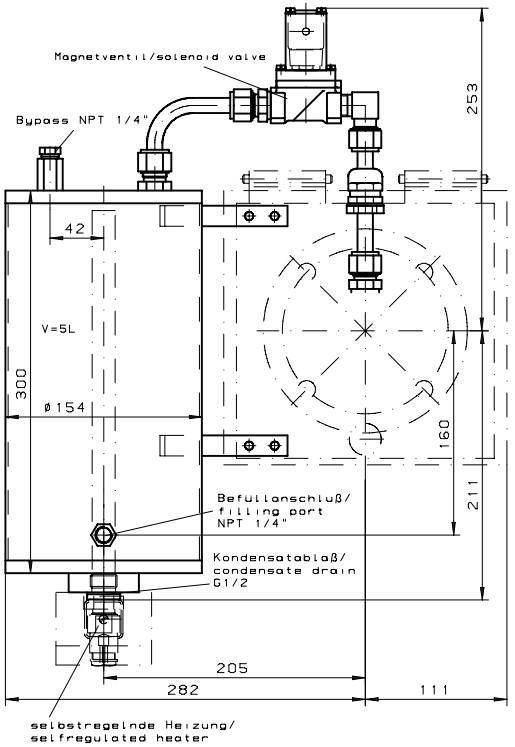
If the position indicator switch is installed, the controller will use this input for the process logic.

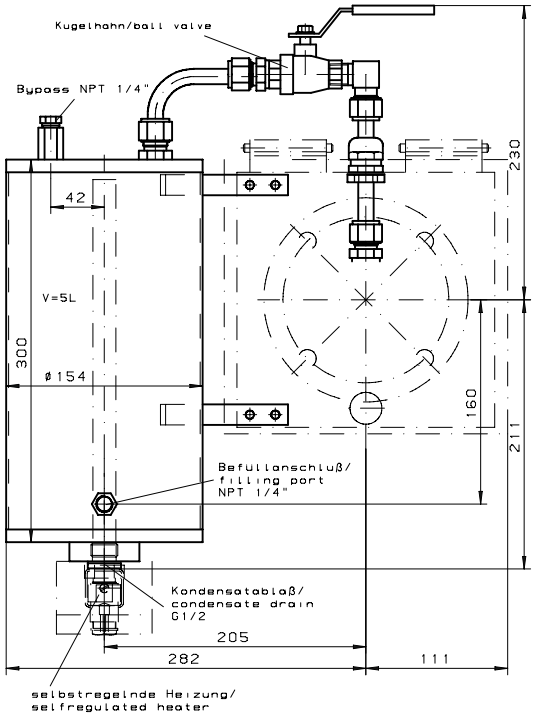
B) Hazardous Areas

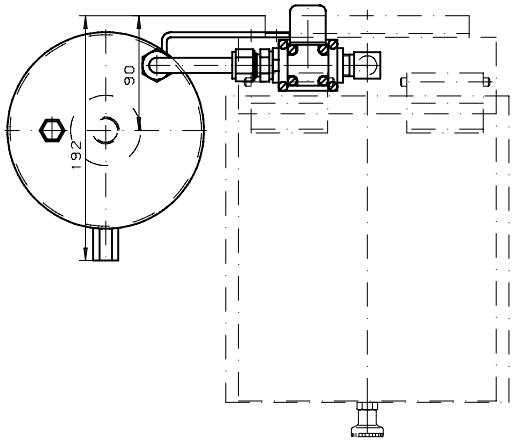
Please note that installed accessories may change the approved category of the probe.
Follow strictly the advices given in the installation- and operation manual and regard the marking on the type plate.

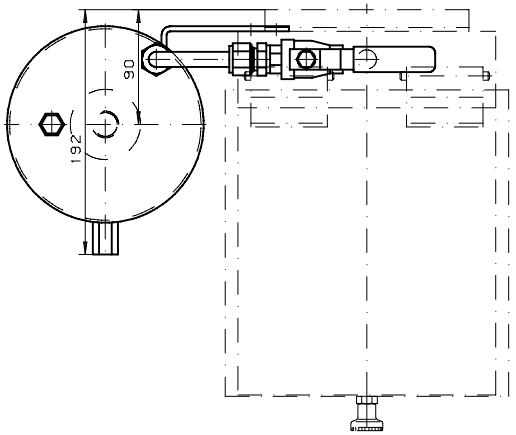
Sample Gas Probe GAS 222.xx Atex		
Model	**with Accessories**	**resuting restircted area; marking**
21 Atex, 31 Atex, 35 Atex	Pressure vessel PAV 01 (Part-No. 46222PAV with accessories)	II 1D / 2GD
21 Atex, 31 Atex,	In situ filter*, ceramics (Art.-Nr.:46222307 + 46222307F)	II 1D 3G / 2GD
20 Atex , 21 Atex,	Downstream filter*, ceramic (Part-No. 46222026 + 46222026P)	II 1D 3G / 2GD
20 Atex, 21 Atex,	Sample tube (Part-No. 46222001, 462220011, 46222006, 46222004, 46222016)	II 1G / 2GD
20 Atex, 21 Atex,	Sample tube**, ceramics (Part-No. 4622200205, 4622200210, 4622200215)	II 3G / 2GD
21 Atex, 31 Atex,	Pneumatic cylinder with end switch Atex (Part-No. 46222019)	II 1GD / 2G3D

* Accessory not suitable for sampling dust with extremely low ignition energy < 3mJ.
** When gases are sampled from Zone 2, ceramic sample tube must be used only if application related or process related electrostatic charging is eliminated.









max Betriebsdruck/operating pressure 10bar
max Betriebstemperatur/operating temperature 50°C

"Änderungen nur nach Rücksprache
mit dem Atexbeauftragten zulässig"

alle Kanten gratfrei	ALLE RECHTE VORBEHALTEN	Maße ohne Toleranzangabe nach ISO 2768-mK				Maßstab 1 2,5	(Gewicht)
Oberflächenbearbeitungszeichen						Werkstoff	
				Datum	Name	Benennung	
			Bearb	05 07 2004	Brinksann	Druckluftbehälter/ capacitive vessel PAV 01	
			Gepr				
				BÜHLER		Zeichng -Nr	46/106-Z01-01-2
						Art -Nr	
Zust	Änd	Datum	Name	Ers für		ARBEITSANWEISUNG	

Downstream filter elements and further options

Downstream filter			Part no.:	222.10	222.11	222.30	222.35-U	222.15	222.17	222.20	222.21	222.31	222.35	222.20 DH	222.20 Atex	222.21 Atex	222.31 Atex	222.35 Atex	222.20 Atex2	222.21 Atex2	222.31 Atex2	222.35 Atex2	222.10 ANSI	222.11 ANSI/ CSA	222.30 ANSI/ CSA	222.35-U ANSI/ CSA	222.15 ANSI/ CSA	222.17 ANSI/ CSA	222.20 ANSI/ CSA	222.21 ANSI/ CSA	222.31 ANSI/ CSA	222.35 ANSI/ CSA	222.20 DH ANSI/ CSA	222.20 AMEX	222.21 AMEX	222.31 AMEX	222.35 AMEX	Type GAS
Material	**O-Rings**	**Pore size**																																		
Ceramics	Viton	3 µm	46222026	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Ceramics	Perfluorelastomer	3 µm	46222026P	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Sintered stainless steel	Viton	5 µm	46222010	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Sintered stainless steel	Perfluorelastomer	5 µm	46222010P	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Sintered stainless steel	Viton	0,5 µm	46222010F*	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Sintered stainless steel	Perfluorelastomer	0,5 µm	46222010FP*	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Pleated stainless steel	Viton	10 µm	46222011	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Pleated stainless steel	Perfluorelastomer	10 µm	46222011P	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Handle to hold the micro-fibreglass filter element			46222067	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Micro glass fiber with silicate binder	Viton		462220671	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Micro glass fiber with silicate binder	Perfluorelastomer		462220671P	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Closing handle with filter tube and filter wool	Viton		46222163	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Closing handle with filter tube and filter wool	Perfluorelastomer		46222163P	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Filter wool			46222167	X	X			X	X	X	X			X									X	X			X	X	X	X			X	X	X	
Set of O-rings Viton incl. grease			46222012	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Set of O-rings Perfluorelastomer incl. grease			46222024	X	X			X	X	X	X			X	X	X			X	X			X	X			X	X	X	X			X	X	X	
Further options																																				
Adapter flange ANSI 3“-150lbs			46222014	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X														
Cal gas connection ø6mm			46222309	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cal gas connection ø6mm with check valve			46222311	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cal gas connection ø1/4"			46222336	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cal gas connection ø1/4" with check vavle			46222337	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fitting for sample gas port ø6mm			9008173	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fitting for sample gas port ø8mm			9008174	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fitting for back wash port ø12mm			9008369		X	X	X				X	X	X			X	X	X		X	X	X		X	X	X				X	X	X			X	X	X
Ffitting for sample gas port ø1/4"			9008584	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fitting for sample gas port ø3/8"			9008583	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fitting for back wash port ø1/2"			9028033		X	X	X				X	X	X			X	X	X		X	X	X		X	X	X				X	X	X			X	X	X
Locking screw G3/8 for backflush connection			9008084			X	X				X	X	X			X	X	X		X	X	X			X	X				X	X	X			X	X	X
Sealing ring for sealing the backflush connection with a locking screw			9009258			X	X				X	X	X			X	X	X		X	X	X			X	X				X	X	X			X	X	X
Mounting bracket with clamp ring for DN65 PN6			462220102					X																												
Mounting bracket with clamp ring for ANSI 3”-150 lbs			462220102C																								X									

* Prices and delivery time on request