

## pH or ORP Transmitter



Type 8202 can be combined with...



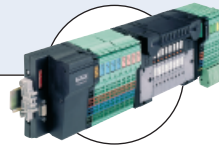
**Type 6642**  
Solenoid valve



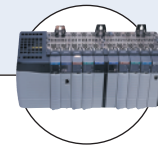
**Type 8620**  
Cooling Tower or boiler  
chemistry controller



**Type 2030**  
On/Off Diaphragm  
valve



**Type 8644**  
Valve islands



**PLC**

- Programmable outputs: two transistor and single or dual analog 4-20 mA (Process + Temp)
- Removable backlighted display
- Universal process connection
- Compatible with 120 mm pH/ ORP probes Type 8203
- Diagnostic function

The Bürkert transmitter Type 8202 is a compact device designed for the measurement of:

- the pH in clean liquids or liquids containing solids, sulphides or proteins.
- or the oxidation-reduction potential in clean liquids or liquids containing solids, sulphides or proteins which may present low conductivity.

The transmitter consists of a replaceable standard pH or ORP probe Type 8203, screwed in a probe holder with integrated Pt1000 temperature sensor. This ensemble is plugged-in and screwed with a nut to an enclosure with cover containing the electronic module and a removable display. Thus the Bürkert Transmitter facilitates short installation and maintenance effort.

The pH/ORP transmitter can operate independent of the display, but it will be required for programming the transmitter (i.e. selection of pH or ORP sensor type, measuring range, engineering units, calibration...) and also for visualizing continuously the measured and processed data.

The device Type 8202 is available :

- with three fully programmable outputs : two transistor and one 2-wire 4-20 mA current outputs
- with four fully programmable outputs: two transistor and two 3-wire 4-20 mA current outputs

The device Type 8202 converts the measured signal, displays different values in different physical units (if display mounted) and computes the output signals, which are provided via one or two M12 fixed connectors.

### Technical data (Pipe + transmitter)

<b>Pipe diameter</b>	DN25 to DN110 (DN<25 with reduction)
<b>pH measurement</b>	
Measuring range	-2...16 pH or -580... +580 mV
Resolution	0.001 pH or 0.1 mV
Accuracy	±0.02 pH or 0.5 mV
<b>Minimal pH scale</b>	0.5 pH or 30 mV (i.e 6.7 to 7.2 pH or -20 to +10 mV corresponding to 4-20 mA)
<b>ORP measurement</b>	
Measuring range	-2000 ...+2000 mV
Resolution	1 mV
Accuracy	± 3 mV
<b>Minimal ORP scale</b>	50 mV (i.e 1550 to 1600 mV corresponding to 4-20 mA)
<b>Temperature measurement</b>	
Measuring range	-40 to +130°C (-40 to 266°F)
Resolution	0.1°C (0.18°F)
Accuracy	± 1°C (1.8°F)
<b>Temperature compensation</b>	automatic (integrated Pt1000) - reference temperature 25°C (77°F)
<b>Minimal temperature scale</b>	10°C (18°F) (i.e 10 to 20°C (50 to 68°F) corresponding to 4-20 mA)
<b>Medium temperature*</b>	
With PVC nut connection	0 up to 50°C (32 to 122°F) restricted by the used probe
With PVDF nut connection	-20 up to 130°C (-4 to 266°F) restricted by the used adaptor or probe
	restriction with adaptor S022 in:
	- PVC: 0 up to 50°C (32 to 122°F)
	- PP: 0 up to 80°C (32 to 176°F)
	- Metal: -20 up to 130°C (-4 to 266°F)
<b>Fluid pressure max</b>	PN16 (232 PSI) (see pressure / temperature chart - depends on selected probe)



\* If the specific temperature limits for the used probe and the temperature limits given in the above technical data chart are different, please use the more restrictive range.

### Environment

<b>Ambient temperature</b>	-10 to +60°C (14 to 140°F) (operating and storage without probe)
<b>Relative humidity</b>	≤ 85%, without condensation

## 8202 ELEMENT

Electrical data	
<b>Power supply</b>	
3 outputs transmitter (2-wire)	14-36 V DC, filtered and regulated
4 outputs transmitter (3-wire)	12-36 V DC, filtered and regulated
<b>Current consumption</b> with sensor	≤ 1 A (with transistor loads)
3 outputs transmitter (2-wire)	≤ 25 mA (at 14 V DC without transistor loads, with current loop)
4 outputs transmitter (3-wire)	≤ 5 mA (at 12 V DC without transistor loads, without current loop)
<b>Reversed polarity of DC</b>	Protected
<b>Voltage peak</b>	Protected
<b>Short circuit</b>	Protected for transistor outputs
<b>Output</b>	
Transistor	configurable as sourcing or sinking (respectively both as PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired
	output NPN: 0.2-36 VDC
	output PNP: V+ power supply
Current	4-20 mA programmable as sourcing or sinking,
3 outputs transmitter (2-wire)	max. loop impedance: 1100 Ω at 36 V DC;
	610 Ω at 24 V DC; 180 Ω at 14 V DC
4 outputs transmitter (3-wire)	configurable in the same mode as transistor: sourcing or sinking,
	max. loop impedance: 1100 Ω at 36 V DC;
	610 Ω at 24 V DC; 100 Ω at 12 V DC
Response time (10% - 90%)	150 ms (standard)
General data	
<b>Compatibility</b>	Any pipe which are fitted out with Bürkert adaptor S022 (see separate data sheet)
<b>Materials</b>	See exploded view, opposite
Housing / cover / seals	Stainless steel 1.4561, PPS / PC / EPDM
Screws / Display / navigation key	Stainless steel / PC / PBT
Fixed connector mounting plate	Stainless steel 1.4404 (316L)
Fixed connector / Nut	Brass nickel plated / PVC or PVDF
Wetted part materials	
Probe holder	PVDF, Stainless steel 1.4571 (316Ti)
Probe	See probe specific technical data
<b>Probe</b>	120 mm Bürkert pH or ORP probe Type 8203 or any combined 120 mm pH or ORP probe, without temperature sensor, with PG13.5 head, S7/S8 connector
<b>Temperature sensor</b>	Pt1000 integrated within the holder
<b>Display (accessories)</b>	Grey dot matrix 128x64 with backlighting
<b>Electrical connections</b>	
3 outputs transmitter (2-wire)	1x 5-pin M12 male fixed connector,
4 outputs transmitter (3-wire)	1x 5-pin M12 male and 1x 5-pin M12 female fixed connectors
<b>Connection cable</b>	Shielded cable

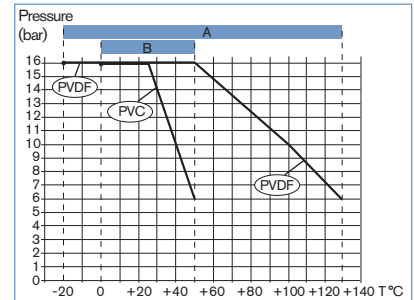
Standards, directives and approvals	
<b>Protection class</b>	IP65 and IP67 with M12 cable plug mounted and tightened and cover fully screwed down
<b>Standard and directives</b> 	EN 61000-6-2, EN 61000-6-3
EMC	Complying with article 3 of §3 from 97/23/CE directive.*
Pressure	EN 60068-2-6 / EN 60068-2-27
Vibration / Shock	
<b>Approvals</b>	
UL-Recognized for US and Canada 	61010-1 + CAN/CSA-C22 No.61010-1

\* For the 97/23/CE pressure directive, the device can only be used under following conditions (depend on max. pressure, pipe diameter, type of probe and fluid).

Type of fluid	Conditions
Fluid group 1, §1.3.a	Only DN25
Fluid group 2, §1.3.a	DN ≤ 32, or DN > 32 and PN*DN ≤ 1000
Fluid group 1, §1.3.b	DN ≤ 25, or DN > 25 and PN*DN ≤ 2000
Fluid group 2, §1.3.b	DN ≤ 125

**bürkert**

## Pressure / temperature chart



Application range of a 8202:

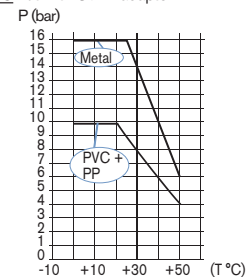
**A**: with PVDF nut

**B**: with PVC nut

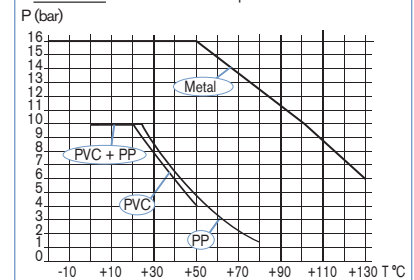
The measures have been made at an ambient temperature of 60°C, without probe.

Application range of a 8202 (without probe)

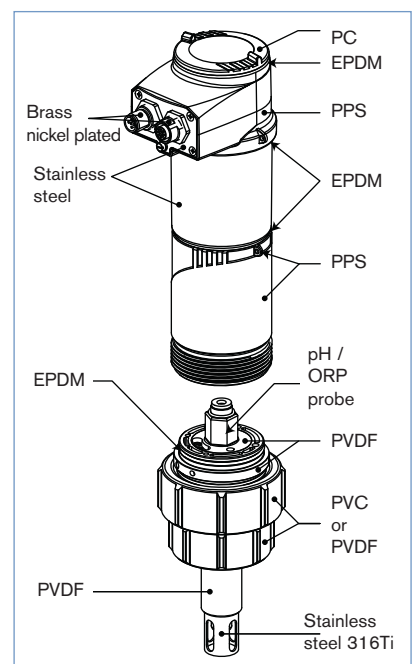
- with PVC nut with S022 adaptor



- with PVDF nut with S022 adaptor



## Materials view



## Principle of operation

The 8202 device can be used as a pH or a ORP transmitter according to the Type 8203 probe version mounted into the holder. The pH or redox probe Type 8203 is a glass membrane with variable selectivity according to the pH or the redox, which must be calibrated with buffer solution before the installation of the transmitter into the pipe.

- ▶ When a pH probe is immersed into the solution a difference in potential is formed due to ions (H+) between the glass membrane and the solution. This difference in potential measured in relation to a reference electrode is directly proportional to the pH value (59.16 mV per pH unit at 25°C). The pH sensor can be calibrated in 1-point (Offset at pH 7) or in 2-points (Offset at pH 7 and Span at pH 4 or pH 10).
- ▶ When a redox probe is immersed into the solution an electron exchange occurs between the oxidised and the reduced state of an electrolyte. The generated cell voltage is the oxidation-reduction potential that is directly proportional to the redox value. The ORP sensor can only be calibrated in 1-point (Offset).

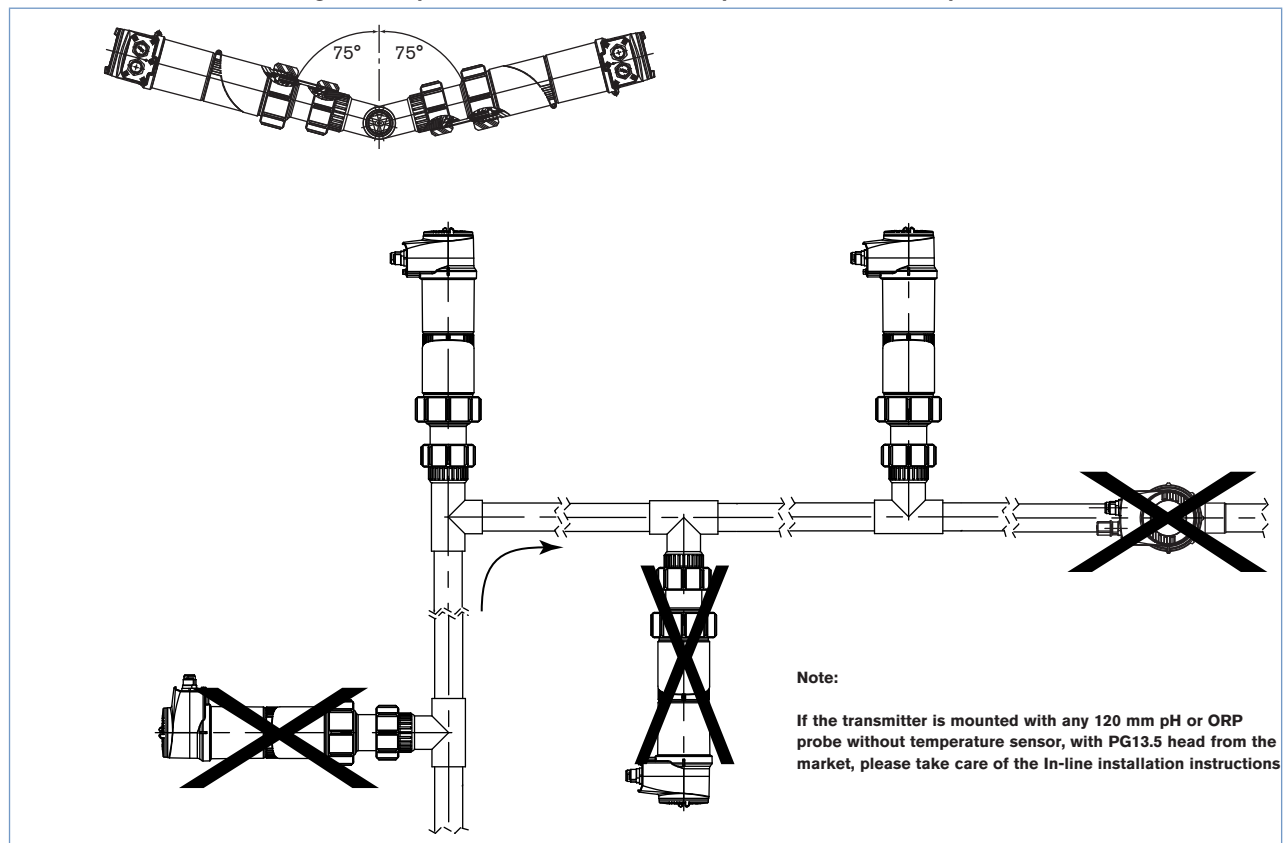
The transmitter is a two wire device (3 outputs transmitter) or a three wire device (4 outputs transmitter) which requires a power supply of 14 V DC (3 outputs transmitter) or 12 V DC (4 outputs transmitter) up to 36 V DC and delivers a 4... 20 mA standard signal proportional to the pH or to the redox potential as output signal.

## Installation

The 8202 pH/ORP transmitter can be installed into any adaptor with G1½" external threaded sensor connection by just fixing the main nut. Select the required adaptor according to specific requirements of the sensor and material (temperature and pressure), and install it in a vertical position with an angle of  $\pm 75^\circ$  max. against the vertical onto an horizontal pipe. For mounting on a tank or direct mounting on a pipe (DN100 and DN110), an adaptor with a G1½" external threaded sensor connection must be used.

After having connected the pH or redox sensor to the Type 8202 transmitter and having calibrated the unit, cautiously install the complete unit on the fitting. In order to get reliable measurement air bubbles must be avoided.

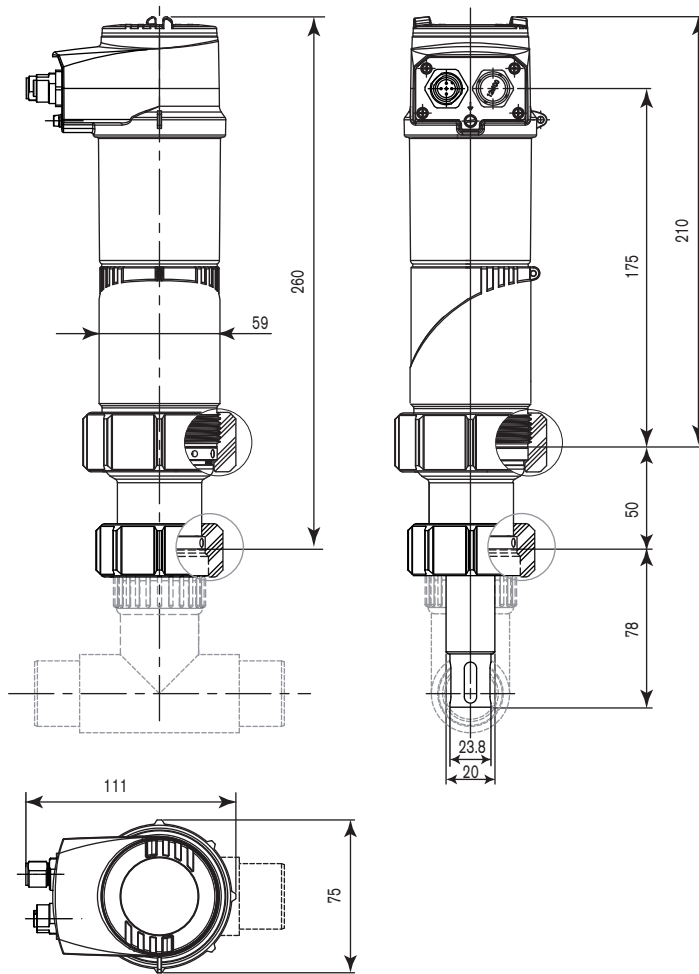
**Please ensure that the mounting location provides a continuous and complete immersion of the probe in the flow stream.**



The probe must continuously be immersed into the measuring fluid in order to protect it from drying out.

The transmitter must be protected from constant heat radiation and other environmental influences, such as direct exposure to sunlight.

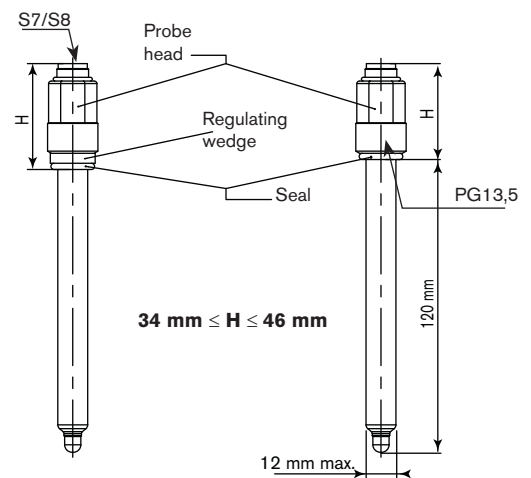
Dimensions [mm] of transmitter Type 8202



Probe

When you click on the orange box "More info," you will come to our website for the Type 8203 product where you can download the data sheet.

More info.



## Ordering information for compact transmitter Type 8202

A complete compact pH/ORP ELEMENT transmitter Type 8202 consists of a compact pH/ORP ELEMENT transmitter Type 8202, a pH/ORP probe Type 8203, a removable display/programmer and a Bürkert INSERTION adaptor Type S022 (with G 1" 1/2 external threaded sensor connection)

The following information is necessary for the selection of a complete device:

- **Item no.** of the desired pH/ORP ELEMENT transmitter **Type 8202** (see ordering chart on p. 6)
- **Item no.** of the selected pH/ORP probe **Type 8203** (see separate data sheet) [More info.](#)
- **Item no.** of the a removable display/programmer (see accessories ordering chart on p. 6)
- **Item no.** of the selected INSERTION adaptor **Type S022 with G1½" external threaded sensor connection** (see separate data sheet) [More info.](#)

When you click on the orange box "More info.", you will come to our website for the resp. product where you can download the data sheet.



You have to order three or four components.

### Attention!

When you order devices without display, please take care that you also order at least one display module for the operation.  
Order no. of the removable display / programming module (see ordering chart on p. 6)

### Example

#### Compact transmitter Type 8202 without display

#### Removable display/programmer







#### Complete ELEMENT transmitter for pH or ORP measurement Type 8202



## Ordering chart for compact transmitter Type 8202





## pH/ORP transmitter Type 8202

Specifications	Voltage supply	Output	Sensor version	Nut material	Electrical connection	UL Approvals	Item no.
Compact transmitter: probe holder with integrated Pt1000 + electronic module with cover, without display	14-36 V DC	2 x transistors + 1x 4-20 mA	None	PVC	5-pin M12 male fixed connector	No	559 630
						 UL-Recognized	559 634
				PVDF	5-pin M12 male fixed connector	No	559 632
						 UL-Recognized	559 636
	12-36 V DC	2 x transistors + 2x 4-20 mA	None	PVC	5-pin M12 male and 5-pin M12 female fixed connectors	No	559 631
						 UL-Recognized	559 635
				PVDF	5-pin M12 male and 5-pin M12 female fixed connectors	No	559 633
						 UL-Recognized	559 637

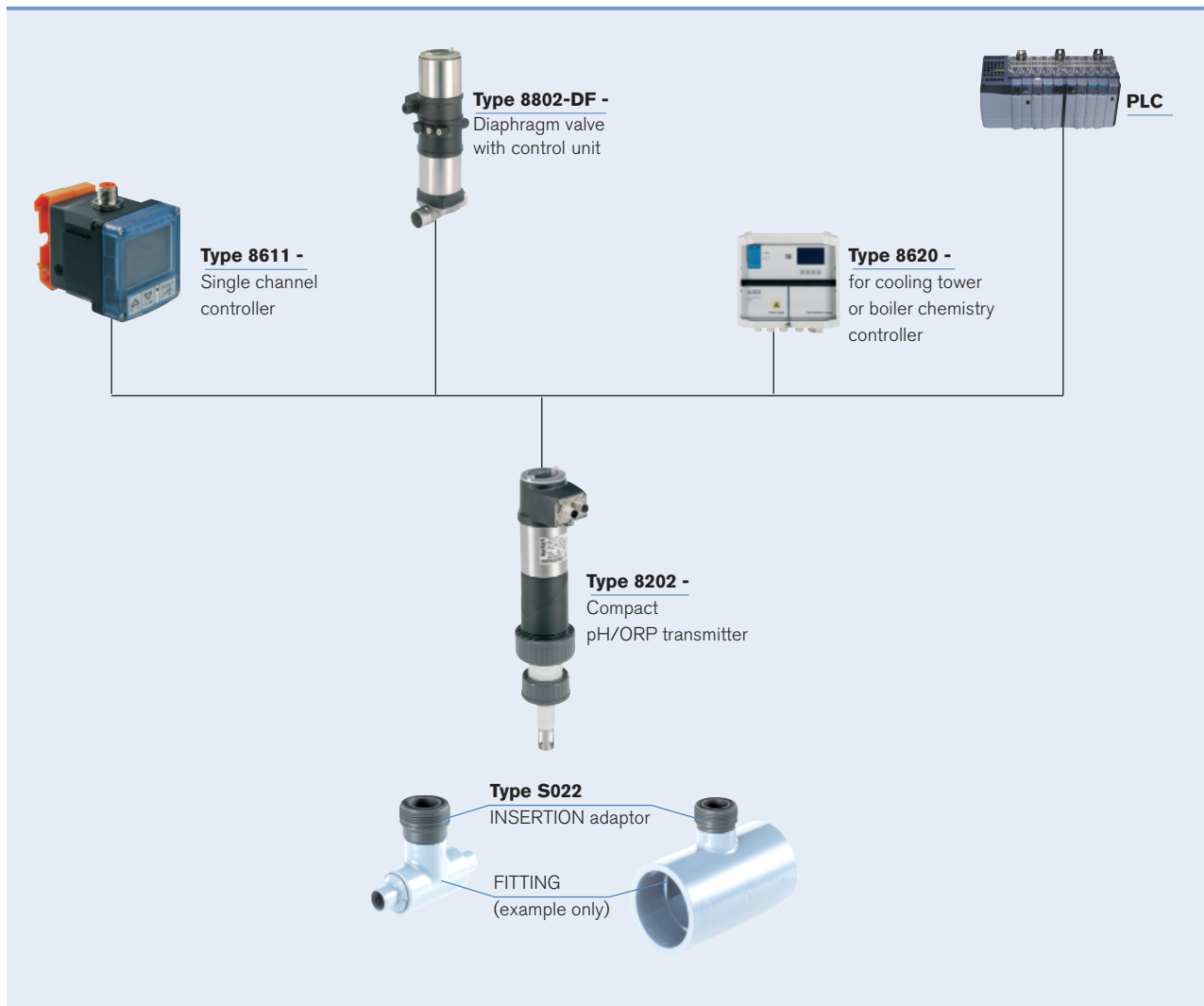
**Note: Order separately (see accessories)**

- pH or ORP probe Type 8203
- display/programmer module
- M12 cable plugs (only female for single 4-20 mA, 1 male + 1 female for dual 4-20 mA transmitter)

## Ordering chart for accessories

Specifications	Item no.
Removable display/programmer module (with instruction sheet)	559 168
Black blank cover with EPDM seal	560 948
Transparent cover with EPDM seal	561 843
One ø 46x2 mm EPDM seal for 120 mm probe holder (with instruction sheet)	559 169
Probe holder with PVC nut	560 947
Probe holder with PVDF nut	561 476
 5 pin M12 female straight cable plug with plastic threaded locking ring, to be wired	917 116
 5 pin M12 male straight cable plug with plastic threaded locking ring, to be wired	560 946
 5 pin M12 female straight cable plug moulded on cable (2 m, shielded)	438 680
 5 pin M12 male straight cable plug moulded on cable (2 m, shielded)	559 177

## Interconnection possibilities with other Bürkert devices



To find your nearest Bürkert facility, click on the orange box →

[www.burkert.com](http://www.burkert.com)

In case of special application conditions,  
please consult for advice.

Subject to alteration.  
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## INSERTION Adapter/Fitting for analytical devices

- Universal adapter/fitting for Type 8202 and 8222 measuring devices in pure, aggressive or polluted liquids
- Adaptation into standard piping systems or conversion of Bürkert S020 fittings to S022 fittings
- Pipe diameters from DN06 (with reduction) to DN110 (plastic) or bigger (stainless steel)

Type S022 can be combined with...



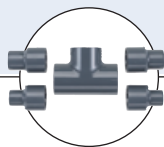
**Type 8202**

pH or O.R.P.  
meter



**Type 8222**

Resistive conductivity  
meter



**Pipe and fitting**



**Saddle**

The adapter/fitting or measuring chamber is used to connect the compact analytical ELEMENT measuring device into piping systems.

Different versions of adapters/ittings are available:

Adapters:

- PVC-U adapter to stick into equal or reduced standard metric or ASTM Tee fitting
- PP adapter to weld into equal d32 standard metric Tee fitting
- Stainless steel adapter to weld
- PVC threaded adapter to screw on tank or pipe
- PVC, PP, stainless steel adapter for conversion of S020 Bürkert fitting into S022 fitting.

Fittings in PVC:

- metric or ASTM Tee fitting
  - True union connection
  - weld end connection
- saddle

### General data

<b>Pipe diameter</b>	DN06 (with reduction) to DN110 (plastic) or bigger (stainless steel)
<b>Process connection</b>	
Adapter	Solvent, fusion, welding, threaded and to connect with screws
Fitting	Metric or ASTM True union or weld ends; saddle
<b>Materials</b>	
Adapter	PVC, PP, stainless steel - delivered with 2 seals, 1 FKM and EPDM
Fitting	
Seal	FKM, EPDM
Body & adapter	PVC&PVC, PP&PVC

### Medium data

<b>Medium temperature</b>	See pressure-temperature chart on next page. Temperature limits may depend on inserted measuring device <sup>1)</sup> .
<b>Medium pressure (max.)</b>	PN10 (plastic) or PN16 (metal). Pressure limits may depend on inserted measuring device <sup>1)</sup> .

### Environment

<b>Ambient temperature</b>	Temperature limits may depend on inserted measuring device <sup>1)</sup> .
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<sup>1)</sup>Please refer to appropriate instruction manual or data sheet for more details.

### Standards, directives and approvals

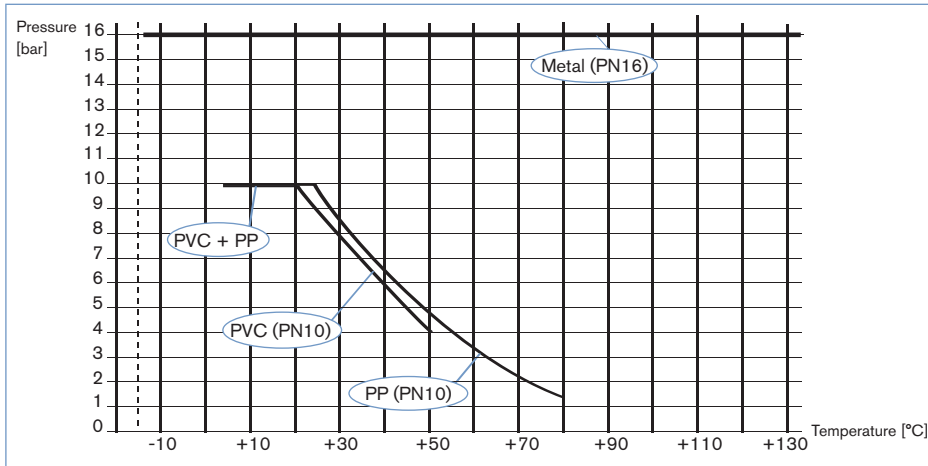
<b>Directive - Pressure</b>	Complying with article 3 of §3 from 97/23/CE directive.*
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\* For the 97/23/CE pressure directive, the device can only be used under following conditions (dependent on max. pressure, pipe diameter and fluid).

Type of fluid	Conditions
Fluid group 1, §1.3.a	Only DN ≤ 25
Fluid group 2, §1.3.a	DN ≤ 32, or DN > 32 and PN*DN ≤ 1000
Fluid group 1, §1.3.b	DN ≤ 25, or DN > 25 and PN*DN ≤ 2000
Fluid group 2, §1.3.b	DN ≤ 125





## Pressure / temperature chart

**Note:**

Always take the lowest max. medium temperature of both adapter and used ELEMENT measuring device.

## Adaptation overview

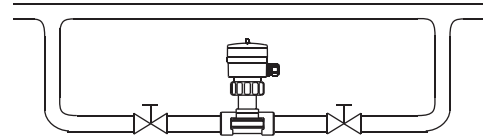
Adapter/ fitting S022					
	<b>PVC-U, PP metric or ASTM</b>	<b>Stainless steel</b>	<b>PVC-U, G or NPT 1 ' / 4 ' screw-on</b>	<b>PVC-U, PP, stainless steel for Bürkert fitting body</b>	
Piping systems					
Final products					
DN	32 to 110 (06 to 25 with reduction)	Respect recommendations of installation	Respect recommendations of installation	Respect recommendations of installation	32 to 50

## Installation and recommendations

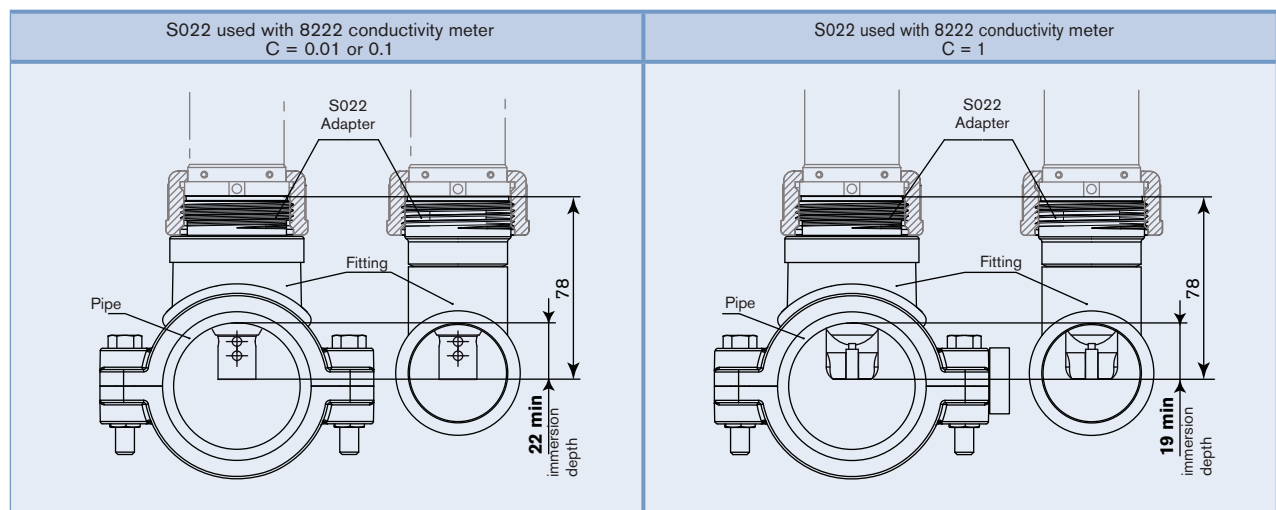
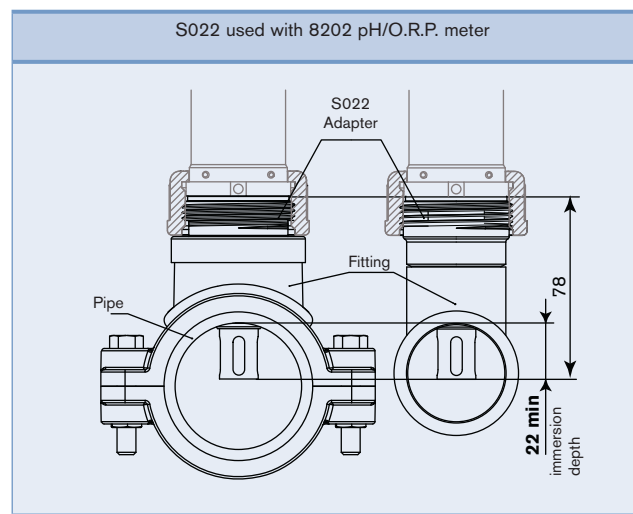
For pH and ORP measurements, we recommend a "U"- form bypass installation to ensure that the electrode is maintained in a wet condition and enable the customer to calibrate the unit without stopping the whole process or to use the special designed measuring chamber.

The specially designed measuring chamber enables to install the measuring device in all pipe systems, either directly in the main stream or in a by-pass line. Additionally it enables to keep the electrode always wet and isolates it easily from the main stream for calibration purposes.

Pressure and temperature ratings must be respected according to the selected adapter material. Be sure that the sensor element is completely covered with liquid. Avoid dead legs which interfere the local fluid exchange.



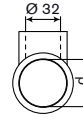
**When mounting the adapter into a T-fitting, a tank or directly into a pipe, please ensure that the minimum immersion depth of the electrode is respected (refer to the under drawing).**



## Dimensions for adapter/fitting S022

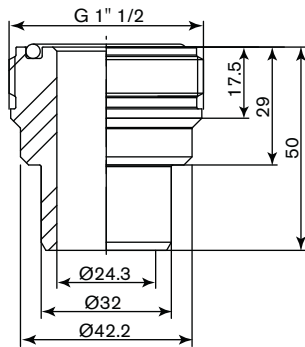
### INSERTION adapter for connection into T-fitting or pipe

Note: T-fitting to use for mounting the S022, shown in the opposite drawing



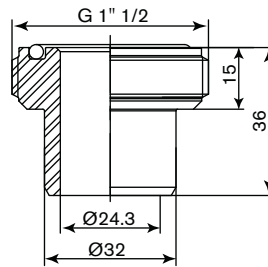
#### Metric solvent adapter PVC-U / FKM, EPDM

To stick on Tee fitting d32x32 or d40x32  
with solvent socket



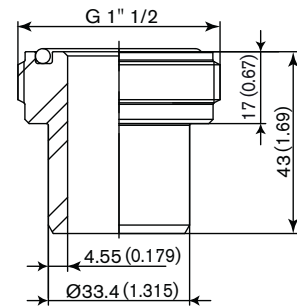
#### Metric solvent adapter PVC-U / FKM, EPDM

To stick on Tee fitting d50x32 to d50-110x32  
with solvent socket



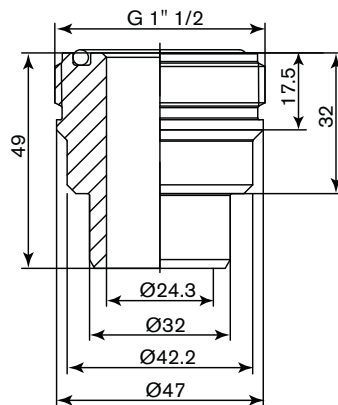
#### ASTM solvent adapter PVC-U / FKM, EPDM

To stick on Tee fitting 1"x1" to 3"x1"  
with solvent socket



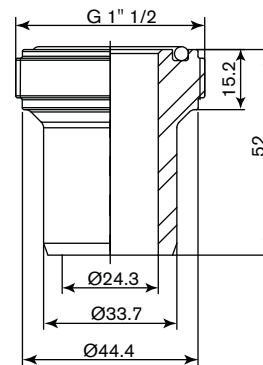
#### Metric fusion adapter PP / FKM, EPDM

To weld on Tee fitting d32x32  
with fusion socket



#### Metric welding Stainless steel / FKM, EPDM

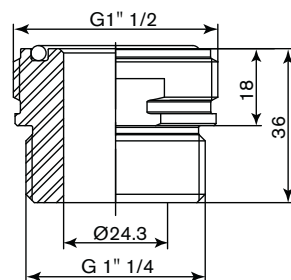
To weld directly on pipe



### INSERTION adapter for connection on tank or pipe

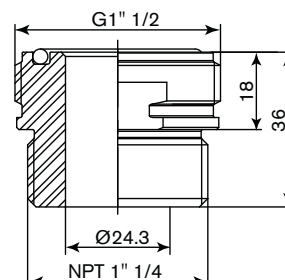
#### G 1 1/4" screw-on adapter PVC-U / FKM, EPDM

to screw on tank or pipe



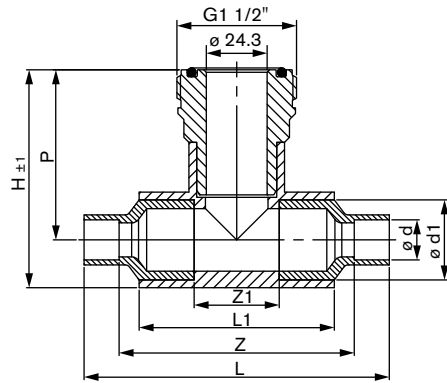
#### NPT 1 1/4" screw-on adapter PVC-U / FKM, EPDM

to screw on tank or pipe

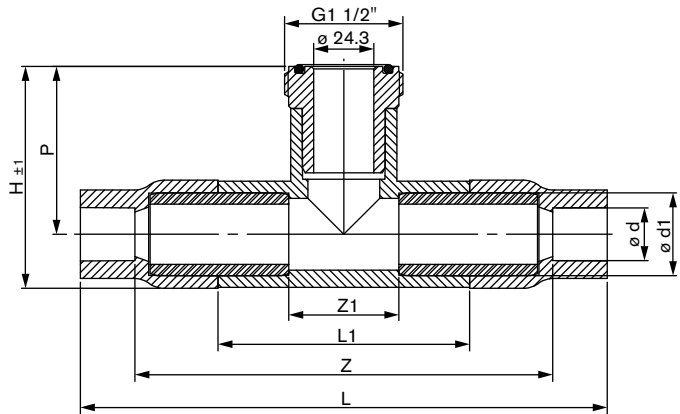


## Dimensions for adapter/fitting S022

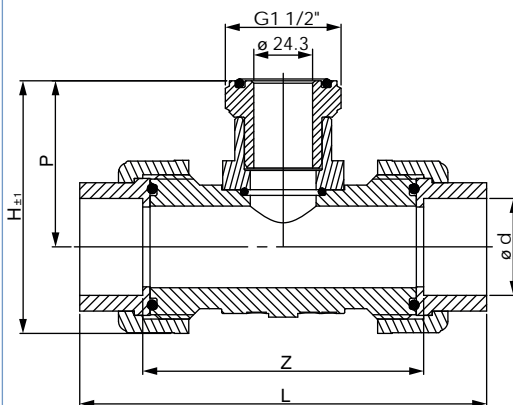
Fitting with metric solvent ends connection in PVC



Fitting with ASTM solvent ends connection in PVC



DN [mm]	P [mm]	H [mm]	Standard	L [mm]	L1 [mm]	Z [mm]	Z1 [mm]	Ø d [mm] [inch]	Ø d1 [mm] [inch]
10	68	87	Metric	122	78	94	34	16	32
	-	-	ASTM	-	-	-	-	-	-
15	68	87	Metric	126	78	94	34	20	32
	68	89	ASTM	213	102	168	44	1/2"	1"
20	68	87	Metric	132	78	94	34	25	32
	68	89	ASTM	224	102	175	44	3/4"	1"
25	68	87	Metric	-	78	-	34	-	32
	68	89	ASTM	-	102	-	44	-	1"
32	70	99	Metric	-	98	-	46	-	40
	71	98	ASTM	-	108	-	44	-	1 1/4"
40	65	96	Metric	-	118	-	56	-	50
	74	104	ASTM	-	114	-	44	-	1 1/2"
50	71	110	Metric	-	146	-	70	-	63
	77	114	ASTM	-	121	-	44	-	2"
65	78	124	Metric	-	168	-	80	-	75
	84	128	ASTM	-	133	-	44	-	2 1/2"
80	92	147	Metric	-	194	-	92	-	90
	87	140	ASTM	-	140	-	44	-	3"
100	104	171	Metric	-	234	-	112	-	110
	-	-	ASTM	-	-	-	-	-	-

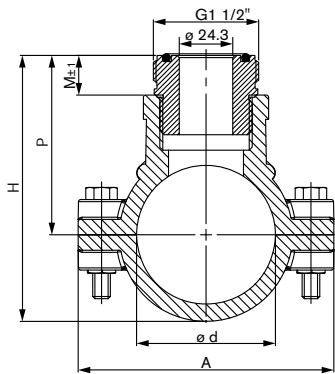
Fitting with metric or ASTM true union connection  
with spigot and nut in PVC

DN [mm]	P [mm]	H [mm]	Standard	L [mm]	Z [mm]	Ø d [mm] [inch]
15	69	104	Metric	148	116	20
			ASTM	162	116	1/2"
20	69	104	Metric	154	116	25
			ASTM	168	116	3/4"
25	69	104	Metric	160	116	32
			ASTM	174	116	1"
32	69	104	Metric	168	116	40
			ASTM	170	116	1 1/4"
40	72	113	Metric	188	126	50
			ASTM	190	126	1 1/2"
50	79	129	Metric	212	136	63
			ASTM	214	136	2"

Dimensions for adapter/fitting S022

Fitting with saddle

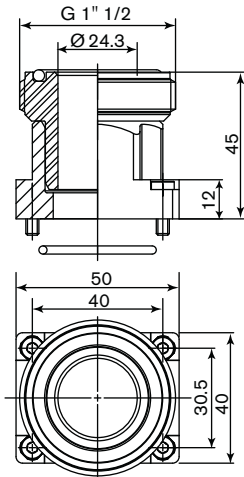
PP Body material  
& PVC adapter  
EPDM seal material



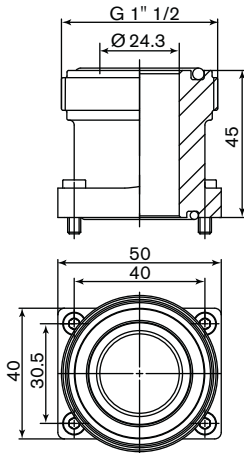
DN [mm]	M [mm]	P [mm]	H [mm]	A [mm]	Ø D [mm]
50	18	82	121	116	63
65	18	89	134	129	75
80	18	96	148	144	90
100	18	107	170	166	110
110	18	113	184	181	125

Adapter to convert S020 T-fitting to S022

Adapter  
PVC-U or PP/ FKM, EPDM  
For Bürkert fitting body - DN32 or bigger

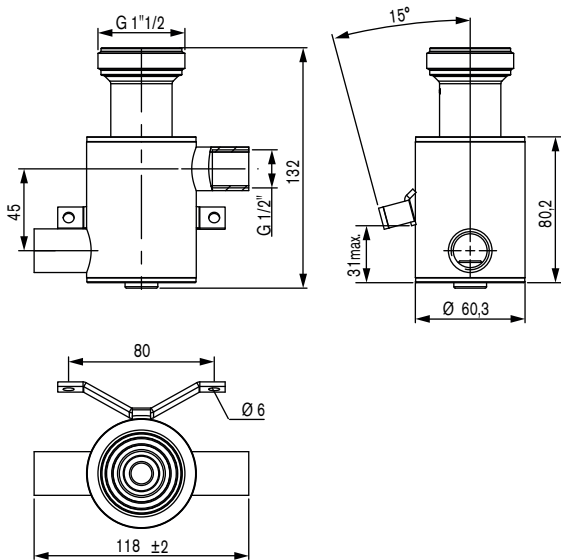


Adapter  
Stainless steel / FKM, EPDM  
For Bürkert fitting body - DN32 or bigger



Measuring chamber

Stainless steel  
316L - 1.4404






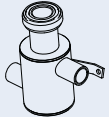
## Ordering chart for adapter/fitting S022

	Description	Materials Body / Seal <sup>1)</sup>	Type of installation or DN	Item no.
<b>Insertion adapter for connection into T-fitting or pipe</b>				
	Metric solvent adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To stick on Tee fitting d32x32 or d40x32 with solvent socket	560 705
	Metric solvent adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To stick on Tee fitting d50x32 to d50-110x32 with solvent socket	560 706
	ASTM solvent adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To stick on Tee fitting 1"x1" to 3"x1" with solvent socket	561 227
	Metric fusion adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PP / FKM, EPDM	To weld on Tee fitting d32x32 with fusion socket	561 229
	Metric welding adapter Ø 33.7 with G 1 1/2" external threaded for ELEMENT measuring device connection	Stainless steel / FKM, EPDM	To weld directly on pipe	561 232
<b>Insertion adapter for connection into T-fitting or pipe</b>				
	G 1 1/4" screw-on adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To screw on tank or pipe	560 707
	NPT 1 1/4" screw-on adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To screw on tank or pipe	561 228
<b>Adapter for conversion of S020 T-fitting to S022 T-fitting</b>				
	Adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	For Bürkert fitting body ≥ DN32 <sup>2)</sup>	560 854
	Adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	PP / FKM, EPDM	For Bürkert fitting body ≥ DN32 <sup>2)</sup>	561 230
	Adapter with G 1 1/2" external threaded for ELEMENT measuring device connection	Stainless steel / FKM, EPDM	For Bürkert fitting body ≥ DN32 <sup>2)</sup>	561 233
<b>INSERTION fitting for connection on pipe</b>				
	Fitting with metric solvent ends connection with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC / FKM	10	559 640
			15	559 641
			20	559 642
			25	559 643
			32	559 644
			40	559 645
			50	559 646
			65	559 647
			80	559 648
	Fitting with ASTM solvent ends connection with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC / FKM	100	559 649
			15	560 815
			20	560 816
			25	560 817
			32	560 818
			40	560 819
			50	560 820
			65	560 821
			80	560 822

<sup>1)</sup> 1 FKM and 1 EPDM seals for the measuring device connection are supplied with each adapter.

<sup>2)</sup> or analytical true union fitting (DN15 - DN25)

## Ordering chart for adapter/fitting S022

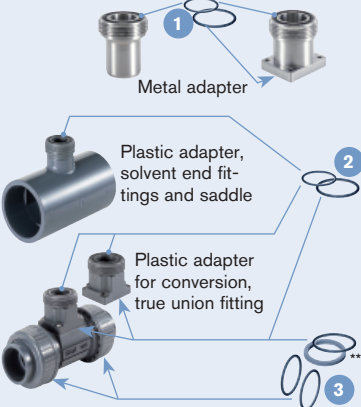
	Description	Materials Body / Seal <sup>1)</sup>	Type of installation or DN	Item no.
<b>Insertion fitting for connection on pipe</b>				
	Fitting with metric true union connection with spigot and nut for pipe connection and with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC / FKM	15	560 671
			20	560 672
			25	560 673
			32	560 674
			40	560 675
			50	560 676
	Fitting with ASTM true union connection with spigot and nut for pipe connection and with G 1 1/2" external threaded for ELEMENT measuring device connection	PVC / FKM	15	560 691
			20	560 692
			25	560 693
			32	560 694
			40	560 695
			50	560 696
	Fitting with saddle with G 1 1/2" external threaded for ELEMENT measuring device connection	PP Body & PVC adapter / EPDM	50	560 700
			65	560 701
			80	560 702
			100	560 703
			110	560 704
<b>Measuring chamber</b>				
	Measuring chamber with G 1 1/2" external threaded for ELEMENT measuring device connection	Stainless steel 316L - 1.4404	Pipe connection: G 1/2"	563 552

<sup>1)</sup> 1 FKM and 1 EPDM seals for the measuring device connection are supplied with each adapter.

### Further versions on request

**Materials**  
PVC-C, PVDF with FKM or EPDM seal

## Ordering chart - accessories for adapter/fitting S022 (has to be ordered separately)

Number on Drawing	Description	Item no.
 <p>Metal adapter</p> <p>Plastic adapter, solvent end fittings and saddle</p> <p>Plastic adapter for conversion, true union fitting</p> <p>** O-ring to use for holder with lug, Flat seal to use for holder with groove (old version)</p>		
	Stopper in stainless steel with union nut and O-ring (EPDM and FKM)	562 625
	Stopper in PVC with union nut and O-ring (EPDM and FKM)	562 541
1	FKM O-ring set - for metal adapter	561 654
1	EPDM O-ring set - for metal adapter	561 653
2	FKM O-ring set - for plastic adapter, solvent end fittings and saddle	561 399
2	EPDM O-ring set - for plastic adapter, solvent end fittings and saddle	561 398
3	FKM O-ring set - for plastic adapter or true union fitting DN15 up DN32	431 558
3	FKM O-ring set - for plastic adapter or true union fitting DN40	431 559
3	FKM O-ring set - for plastic adapter or true union fitting DN50	431 560
3	EPDM O-ring set - for plastic adapter or true union fitting DN15 up DN32	431 564
3	EPDM O-ring set - for plastic adapter or true union fitting DN40	431 565
3	EPDM O-ring set - for plastic adapter or true union fitting DN50	431 566

\*To find your nearest Bürkert office, click on the orange box →

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In case of special application conditions,  
please consult for advice.

Subject to alteration.  
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