



Type S022 can be combined with...





meter



Type 8222
Resistive conductivity meter

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

Different versions of adapters/fittings 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 fittingTrue union connection
- weld end connection
- saddle

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)



Pipe and fitting



Saddle

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

Body & adapter	PVC&PVC, PP&PVC				
Medium data					
Medium temperature	See pressure-temperature chart on next page. Temperature limits may depend on inserted measuring device ¹⁾ .				
Medium pressure (max.)	PN10 (plastic) or PN16 (metal). Pressure limits may depend on inserted measuring device ¹⁾ .				
Environment					
Ambient temperature	Temperature limits may depend on inserted measuring device ¹⁾ .				

¹⁾ Please refer to appropriate instruction manual or data sheet for more details.

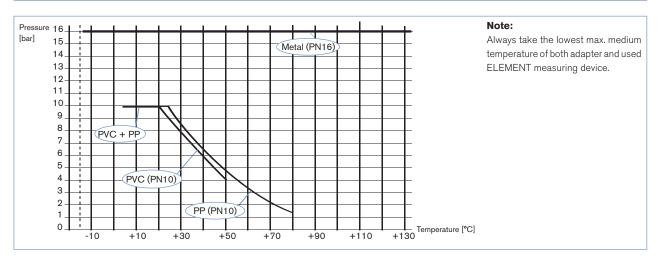
Standards, directives and approvals			
Directive - Pressure	Complying with article 3 of §3 from 97/23/CE directive.*		

^{*} 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



Adaptation overview

Adapter/ fitting S022	PVC-U, PP metric or ASTM	Stainless steel	PVC-U, G or NPT 1 ¹ / ₄ "screw-on	PVC-U, PP, stainless steel for Bürkert fitting body	
Piping systems					
Final products	10	<u></u>	D		
DN	32 to 110 (06 to 25 with reduction)	Respect recommendations of installation	Respect recommendations of installation	Respect recommendations of installation	32 to 50

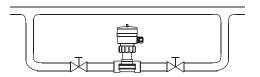


Installation and recommendations

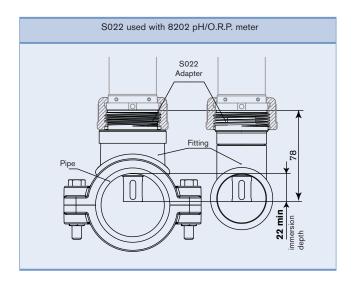
For pH and ORP measurements, we recommend a "U"- form bypass installation to ensure that the electrode is maintained in a wet condition and enable the customer to calibrate the unit without stopping the whole process or to use the special designed measuring chamber.

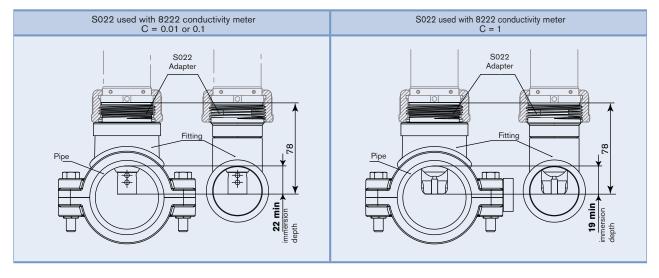
The specially designed measuring chamber enables to install the measuring device in all pipe systems, either directly in the main stream or in a by-pass line. Additionally it enables to keep the electrode always wet and isolates it easily from the main stream for calibration purposes.

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

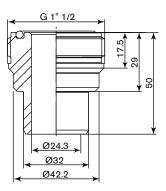
INSERTION adapter for connection into T-fitting or pipe

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



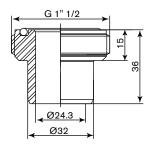
Metric solvent adapter PVC-U / FKM, EPDM

To stick on Tee fitting d32x32 or d40x32 with solvent socket



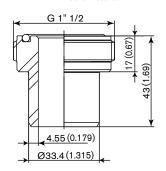
Metric solvent adapter PVC-U / FKM, EPDM

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



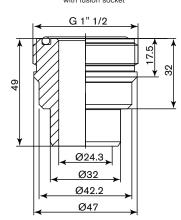
ASTM solvent adapter PVC-U / FKM, EPDM

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



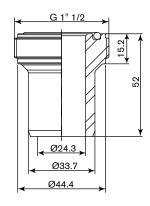
Metric fusion adapter PP / FKM, EPDM

To weld on Tee fitting d32x32 with fusion socket



Metric welding Stainless steel / FKM, EPDM

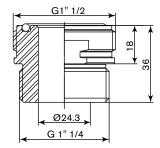
To weld directly on pipe



INSERTION adapter for connection on tank or pipe

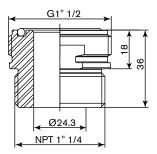
G 1¹/₄" screw-on adapter PVC-U / FKM, EPDM

to screw on tank or pipe



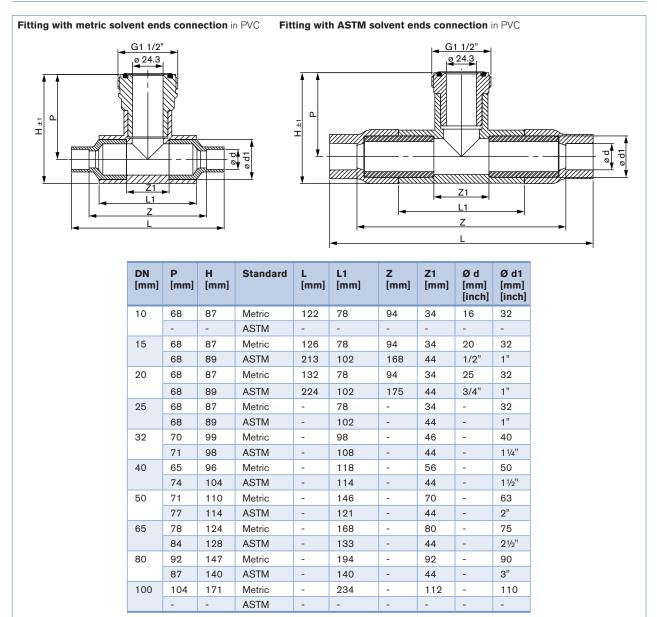
NPT 1¹/₄" screw-on adapter PVC-U / FKM, EPDM

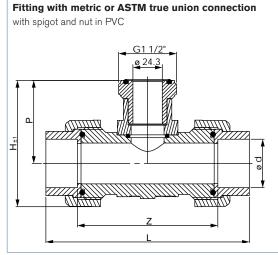
to screw on tank or pipe





Dimensions for adapter/fitting S022





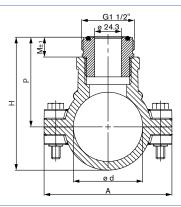
DN [mm]	P [mm]	H [mm]	Stand- ard	L [mm]	Z [mm]	Ø d [mm] [inch]
15	69	104	Metric	148	116	20
			ASTM	162	116	1/2"
20	69	104	Metric	154	116	25
			ASTM	168	116	3/4"
25	69	104	Metric	160	116	32
			ASTM	174	116	1"
32	69	104	Metric	168	116	40
			ASTM	170	116	1 1/4"
40	40 72	113	Metric	188	126	50
			ASTM	190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

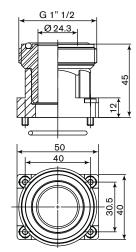


DN [mm]	M [mm]	P [mm]	H [mm]	A [mm]	Ø D [mm]
50	18	82	121	116	63
65	18	89	134	129	75
80	18	96	148	144	90
100	18	107	170	166	110
110	18	113	184	181	125

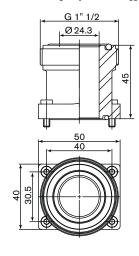
Adapter to convert S020 T-fitting to S022

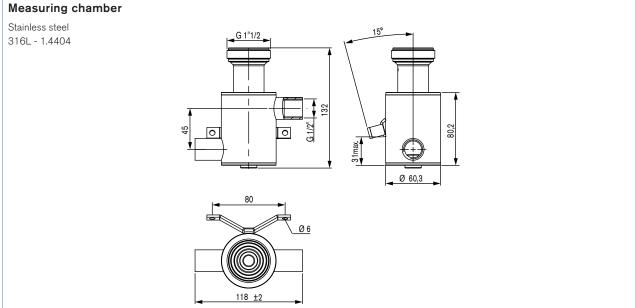
Adapter PVC-U or PP/ FKM, EPDM

For Bürkert fitting body - DN32 or bigger



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







Ordering chart for adapter/fitting S022

	Description	Materials Body / Seal ¹⁾	Type of installation or DN	Item no.
Insertion ad	apter for connection into T-fitting or pipe			
	Metric solvent adapter with G 1½" 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 11/2" 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 11/2" 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 11/2" 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 1½" external threaded for ELEMENT measuring device connection	Stainless steel / FKM, EPDM	To weld directly on pipe	561 232
nsertion ad	apter for connection into T-fitting or pipe			
	G 11/4"screw-on adapter with G 11/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To screw on tank or pipe	560 707
	NPT 11/4" screw-on adapter with G 11/2" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	To screw on tank or pipe	561 228
Adapter for	conversion of S020 T-fitting to S022 T-fitting			
	Adapter with G 1½" external threaded for ELEMENT measuring device connection	PVC-U / FKM, EPDM	For Bürkert fitting body \geq DN32 ²⁾	560 854
	Adapter with G 1½" external threaded for ELEMENT measuring device connection	PP / FKM, EPDM	For Bürkert fitting body \geq DN32 ²⁾	561 230
	Adapter with G $1\frac{1}{2}$ " external threaded for ELEMENT measuring device connection	Stainless steel / FKM, EPDM	For Bürkert fitting body ≥ DN32 ²⁾	561 233
NSERTION	fitting for connection on pipe			
	P.PC		10	559 640
			15	559 641
			20	559 642
			25	559 643
	Fitting with metric solvent ends connection		32	559 644
	with G 11/2" external threaded for ELEMENT measuring device	PVC / FKM	40	559 645
	connection		50	559 646
			65	559 647
			80	559 648
			100	559 649
			15	560 815
_		EVO / EVA	20	560 816
			25	560 817
	Fitting with ASTM solvent ends connection		32	560 818
	with G 1½" external threaded for ELEMENT measuring device connection	PVC / FKM	40	560 819
(COMMODIUM		50	560 820
			65	560 821
			80	560 822

 $^{^{9}}$ 1 FKM and 1 EPDM seals for the measuring device connection are supplied with each adapter. 29 or analytical true union fitting (DN15 - DN25)



Ordering chart for adapter/fitting S022

	Description	Materials Body / Seal ¹⁾	Type of installation or DN	Item no.	
Insertion fitti	ng for connection on pipe				
			15	560 671	
	Fitting with metric true union connection		20	560 672	
	with spigot and nut for pipe connection and	PVC / FKM	25	560 673	
	with G $1\frac{1}{2}$ " external threaded for ELEMENT measuring device	FVC / FRIVI	32	560 674	
	connection		40	560 675	
			50	560 676	
	Fitting with ASTM true union connection with spigot and nut for pipe connection and with G 1½" 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	
			50	560 700	
	Fitting with saddle with G 11/2" external threaded for ELEMENT measuring device connection	PP Body & PVC adapter / EPDM	65	560 701	
- ST			80	560 702	
1884			100	560 703	
			110	560 704	
Measuring chamber					
	Measuring chamber with G 11/2"external threaded for ELEMENT measuring device connection	Stainless steel 316L - 1.4404	Pipe connection: G 1/2"	563 552	

^{1) 1} FKM and 1 EPDM seals for the measuring device connection are supplied with each adapter.

Further versions on request



PVC-C, PVDF with FKM or EPDM seal

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

