



## Advantages / Benefits

- ▶ Easy system integration by Easy LINK provides low cost of ownership
- ▶ Compact version with integrated conductivity electrodes
- ▶ Remote version with separated transmitter for short (15 ft.) or long (1500 ft.) distances
- ▶ Easy commissioning due to multi-language, menu-guided operation
- ▶ Individual adjustment of all measuring ranges
- ▶ For use in both pipes and tanks using custom fittings or submersion kits

## Design

### Compact Conductivity Transmitter Type 8225

The conductivity transmitter compactly combines a conductivity-sensor and a transmitter with display in a splash-proof plastic NEMA 4 enclosure.

The sensor component consists of replaceable sensors. Sensors with cell constants 0.01 and 0.1 are fitted with stainless steel electrodes, and those with cell constants 1.0 and 10 are fitted with graphite electrodes.

The Pt1000 for automatic temperature compensation is a standard feature in the sensor housing.

The transducer component converts the measured signal and displays the actual value.

Compact version for insertion fittings Types S020 and 1500 / 1501

### Remote Conductivity Transmitter Type 8225

The conductivity-transmission system combines a conductivity sensor Type

8220 and a separate transmitter Type 8225 with display.

The Type 8225 remote transmitter is available in panel-mounted version and in a wall-mounted plastic NEMA 4 enclosure.

### Conductivity Sensor Type 8220

Four conductivity sensors with different cell constants offers a large range of conductivity measurements.

The Pt1000 for automatic temperature compensation is integrated in the sensor housing.

Two different versions for short or long distances between sensor and transmitter are available. The short version sensor directly transmits an analog signal up to 15 feet.

The long version sensor converts the measured signal into a digital signal on the sensor for passing to the transmitter up to a distance of 1500 feet.

## Application

### Conductivity measurements

Waste treatment engineering

Water treatment and process technology

Cooling water monitoring

Chemical dosing

Electroplating

### Burkert Contromatic USA

2602 McGaw Avenue  
Irvine, CA 92614  
Tel. 949.223.3100  
Fax 949.223.3198  
www.burkert-usa.com

### Burkert Contromatic Inc.

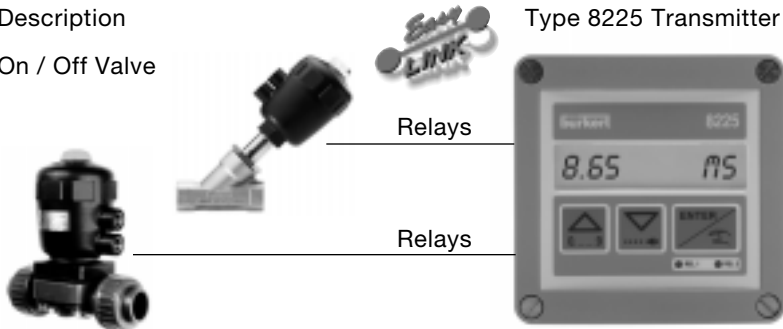
760 Pacific Road, Unit 3  
Oakville, Ontario, Canada  
L6L 6M5  
Tel. 905.847.5566  
Fax 905.847.9006

## The Easy Conductivity - Control System

### ON / OFF Process Control

Description

On / Off Valve



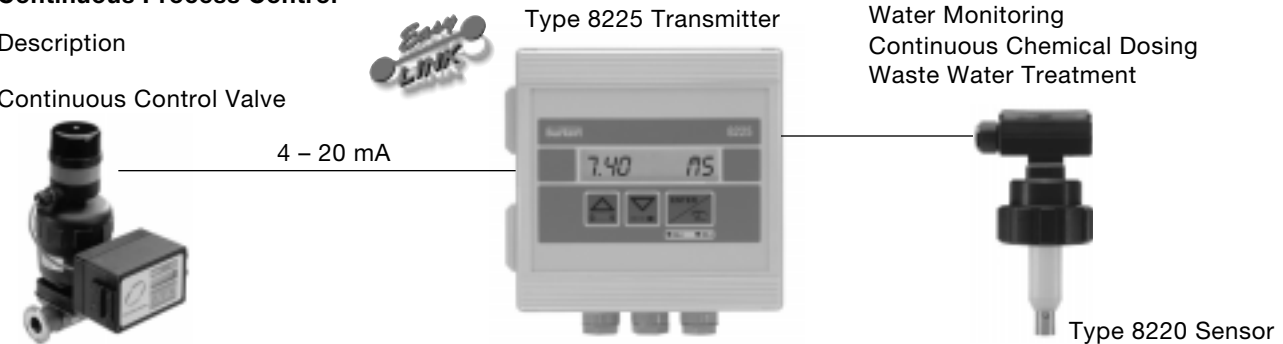
Applications:

Neutralization  
Chemical Dosing  
Waste Water Processing

### Continuous Process Control

Description

Continuous Control Valve



Applications:

Water Monitoring  
Continuous Chemical Dosing  
Waste Water Treatment

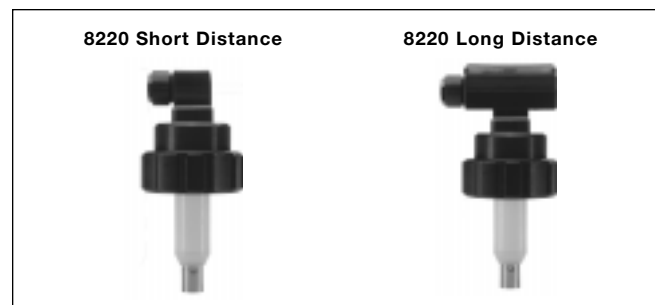
## Design

The conductivity measuring system is available as a compact version Type 8225 and as a separate version combining a sensor Type 8220 and the separate transmitter Type 8225 with display. The conductivity transmitter uses different cell constants. Sensors with cell constants 0.01 and 0.1 are fitted with stainless steel electrodes and those with cell constants 1.0 and 10 are fitted with graphite electrodes. The Pt1000 for automatic temperature compensation is a standard feature in the conductivity sensor housing.

The Type 8225 remote transmitter is available in a panel-mounted version and in a wall-mounted plastic NEMA 4 enclosure for both short and long distance connection to the sensor 8220.

The Type 8225 conductivity transmitter output signal is a standard 4 – 20 mA signal. Two freely adjustable relay outputs are available as an option.

The Type 8220 conductivity sensor is available in short distance (15 ft.) or long distance feature (1500 ft.). The Type 8220 sensors short distance is provided with a 4 pin connector. The analog output signal can be transmitted up to 15 ft. via a 4 x 1.5 mm<sup>2</sup> shielded cable. The Type 8220 sensor long distance is provided with a signal converter Type 8221. The Type 8221 signal converter converts the measured signal of the sensor into a digital signal. This signal can be transmitted up to 1500 ft. via a shielded 4-wire transmission line.



## Principle of Operation

The conductivity is defined as the ability of a solution to conduct electrical current. The load carriers are ions (e.g. dissolved salts or acids). In order to measure conductivity, two electrodes are used at a fixed distance apart and with a specific surface. A voltage source is connected to the electrodes. The measured current is a direct function of the conductivity of the solution.

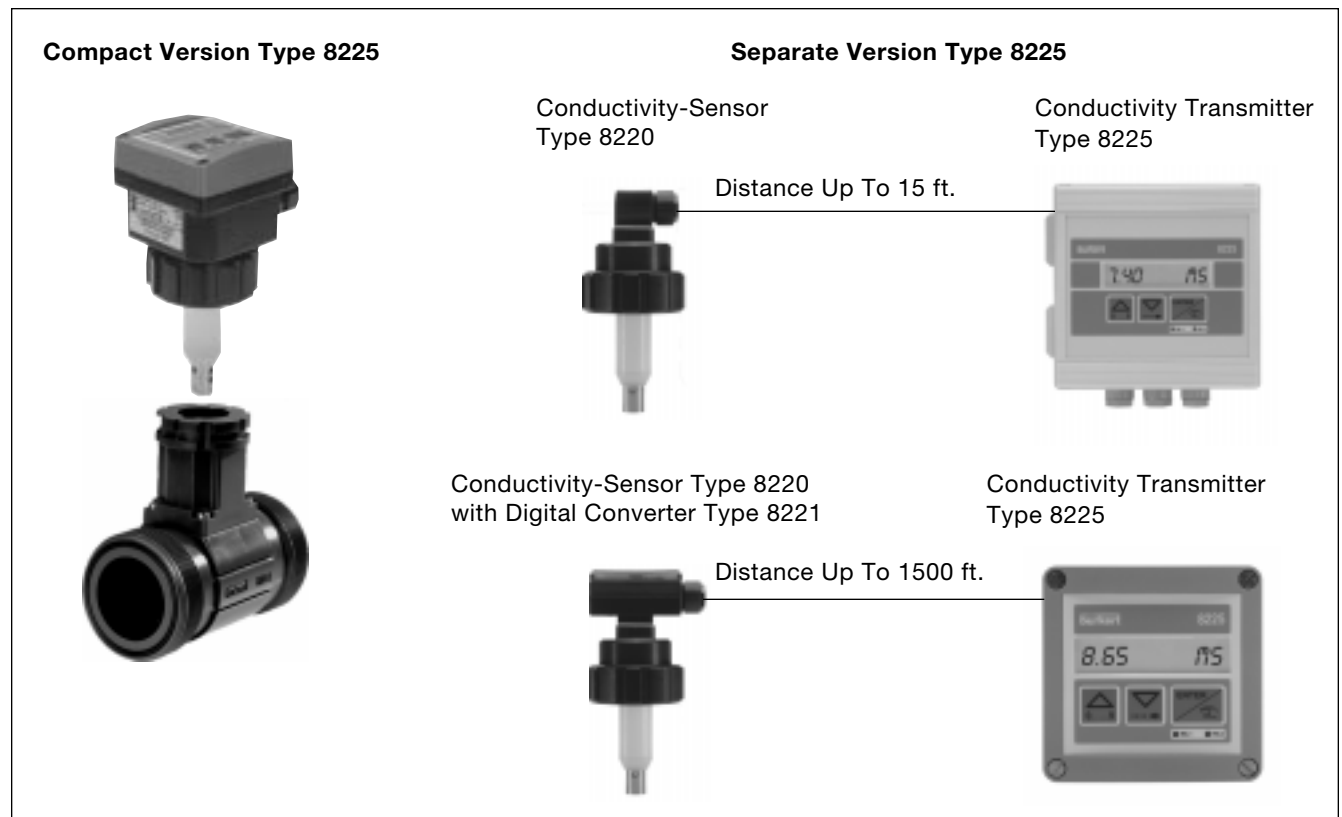
The transmitter is available without relays or with 2 additional relay functions in a 3-wire circuit. Limit values are freely adjustable.

## Installation

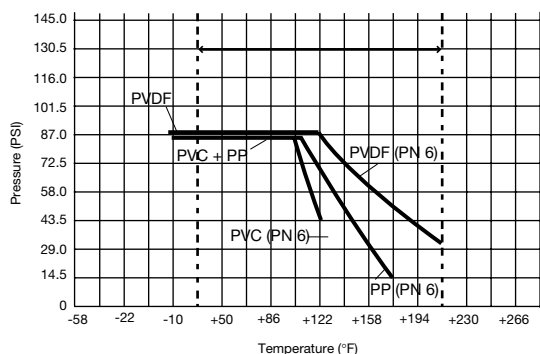
The compact conductivity transmitter can easily be installed into any Bürkert insertion fitting system, S020 or 1500 / 1501, by connecting the main nut.

The remote version requires a separate conductivity transmitter Type 8225 with display. The transmitter Type 8225 is available in a panel-mounted version or in a wall-mounted plastic NEMA 4 enclosure. The conductivity sensor Type 8220 is connected for a short distance (<15 ft.) directly via cable plug connector or for long distance (<1500 ft.) via the digital converter Type 8221 to the separate transmitter Type 8225.

The sensor Type 8220 can be easily installed into pipes using our specially designed fitting system, S020 or 1500 / 1501, by connecting the main nut.



## Pressure-Temperature-Diagram



## Industrial Submersion Fitting

Allows installation into tanks and containers. The following standard lengths are available: 20, 40, 60, 80 inches. Special lengths on request.

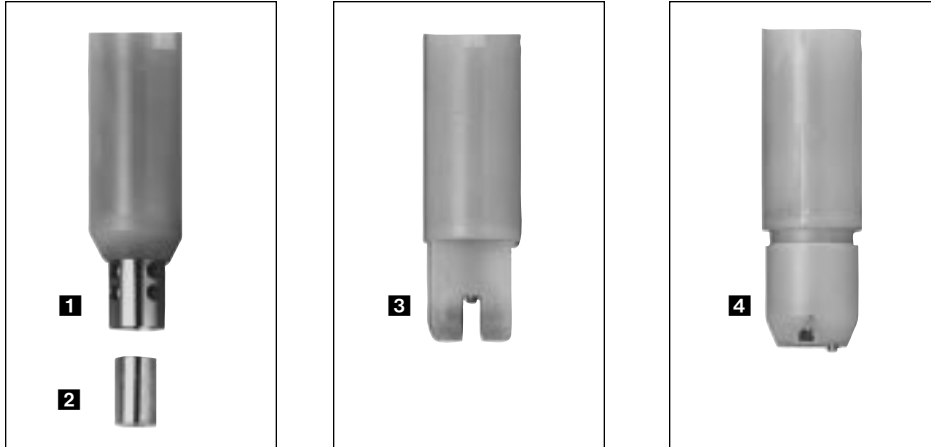


## Operation / Commissioning

Customized adjustments, such as measuring ranges, engineering units and alarm setpoints can be carried out on site via a multi-lingual display. Please consider the respective operating instructions prior to commissioning the devices.

## Electrode Types and Measuring Ranges

Different Electrode Designs Are Required Based On Selected Cell Constant.

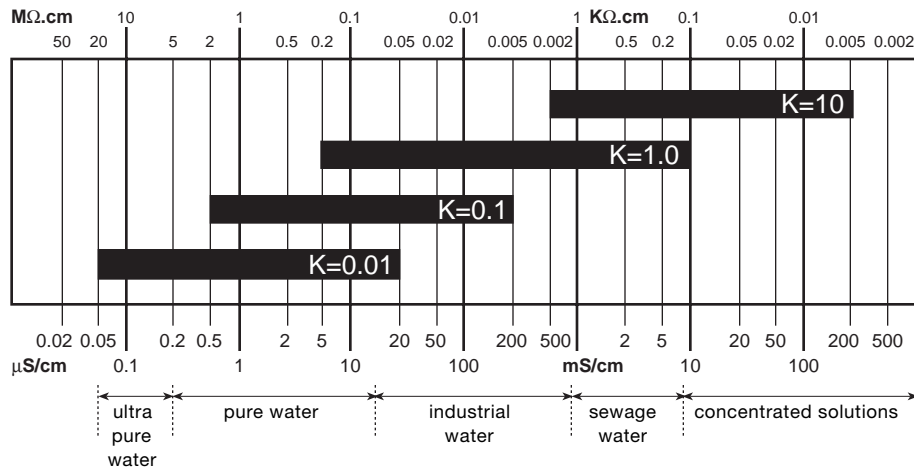


**1** K = 0.1 and  
**2** K = 0.01

**3** K = 1.0

**4** K = 10

The conductivity transmitter can be connected to 4 different sensors with cell constants 0.01, 0.1, 1.0 and 10. Select the conductivity sensor according to the measuring range using the table below:



## Operation and Display

The Operation of the Conductivity Transmitter Is Divided in the Following 3 Different Menus:

### Main Menu

- Conductivity
- Temperature
- Output current
- HOLD function

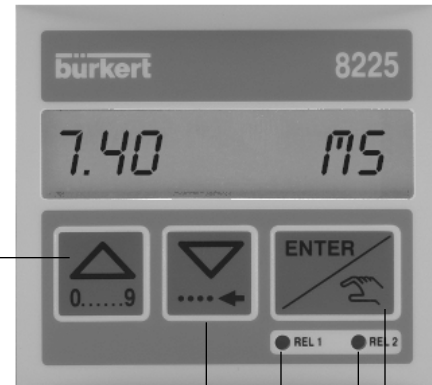
### Calibration Menu

- Language
- Engineering units
- Cell constant
- Temperature compensation
- Measuring range 4 – 20 mA
- Relay function
- Filter selection

### Test Menu

- Offset
- Span
- Conductivity non compensation
- Simulation of conductivity

Display selection and increasing key (numeric values) impulses or auto-matic.



Direction downwards in menu or sideways for digit selection

Relay 1: contact closed

Relay 2: contact closed

Acceptance of chosen parameter or adjusted value

## Technical Data

### General Data

Pipe diameter	Stainless Steel	DN 32 to DN 50 (1-1/4" to 2"); fitting Type S020 DN 65 to 100 weld-in; Weld-o-Let fitting Type 1500
	Brass	DN 32 to DN 50; fitting Type S020
	PVC, PP, PVDF	DN 15 to DN 50; fitting Type S020 (true union ISO) DN 32 to DN 50; fitting Type S020 (all other versions) DN 65 to DN 100 PE/PP/PVDF-Weld-o-Let fitting Type 1501
Measuring range	0.05 $\mu$ S/cm – 200 mS/cm, depending on cell constant	
Measuring error	typical 3% of measured value max. 5% of measured value	
Temperature compensation	automatic with standardized integrated Pt1000 with reference temperature 25°C (77°F)	
Ambient temperature	0 to 60°C (32°F to 140°F)	
Storage temperature	0 to 60°C (32°F to 140°F)	

### Compact version

Pressure class	PN 6 (87 PSI)
Enclosure	IP 65 (NEMA 4). Relative humidity max. 80%
Electronic housing	PC
Sensor housing	PVDF; O-rings FPM / EPDM
Voltage supply	12-30 VDC
Consumption	80 mA (with relays), 20 mA (without relays)
Display	.6 x 2.4 in. LCD 8 digits, alphanumeric 15 segments, .35 in. high
Analog output signal	4 – 20 mA programmable, proportional to the conductivity
Load	<700 $\Omega$ at 30 V; <400 $\Omega$ at 24 V; <100 $\Omega$ at 15 V
Relay output (optional)	2 relays, 3 A / 230 V; freely adjustable
Measuring electrodes	K = 0.01 stainless steel electrodes K = 0.1 stainless steel electrodes K = 1.0 graphite electrodes K = 10 graphite electrodes

### Separate transmitter version

Enclosure	Wall-mounted version IP65 (NEMA4). Rel. humidity max. 80%; ABS Panel version IP 20 (rear plate); IP 65 (front plate); PC		
Voltage supply	12 – 30 VDC; (115/230 VAC option wall-mounted version)		
Consumption	80 mA (with relays), 20 mA (without relays)		
Display	.6 – 2.4" LCD 8 digits, alphanumeric 15 segments; .35 in. high		
Analog output signal	4 – 20 mA programmable, proportional to the conductivity		
Load	short distance	long distance	
	<700 $\Omega$	<1100 $\Omega$	at 30 V
	<400 $\Omega$	<910 $\Omega$	at 24 V
	<100 $\Omega$	<470 $\Omega$	at 15 V
Relay output	2 relays 3 A / 230 V; freely adjustable		

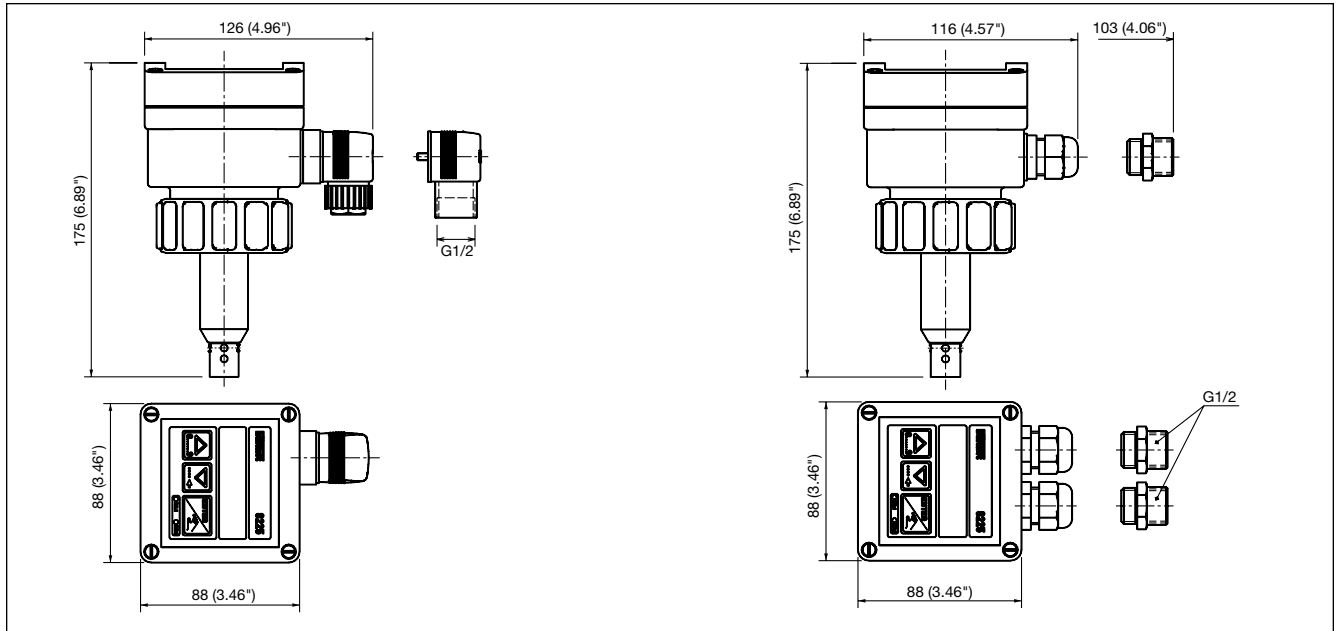
### Separate conductivity sensor Type 8220

Pressure class	PN 6 (87 PSI)
Enclosure	IP 65 (NEMA 4)
Sensor housing	PVDF
Electronic housing	PA
O-ring	FPM / EPDM
Temperature compensation	Automatic with standardized integrated Pt1000 with reference temperature 25°C (77°F)
Measuring electrodes	K = 0.01 stainless steel electrodes K = 0.1 stainless steel electrodes K = 1.0 graphite electrodes K = 10 graphite electrodes

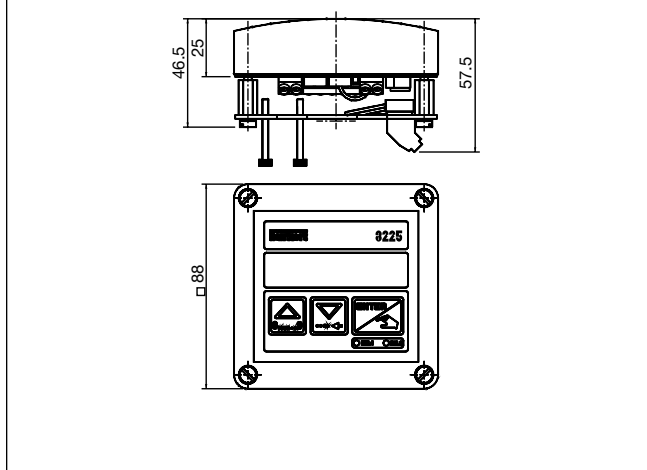
Signal cable length between Type 8220 sensor and Type 8225 transmitter	Short distance max. 15 ft. Long distance max. 1500 ft.
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## Dimensions [mm (inch)]

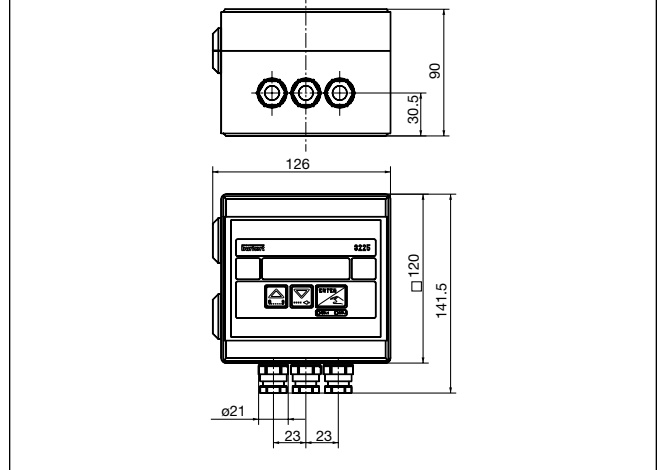
### Conductivity Transmitter Type 8225 Compact and Separate Version



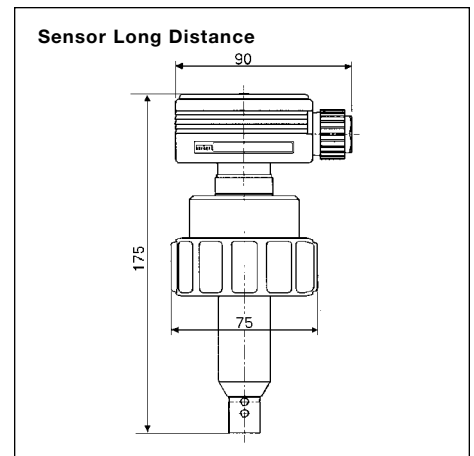
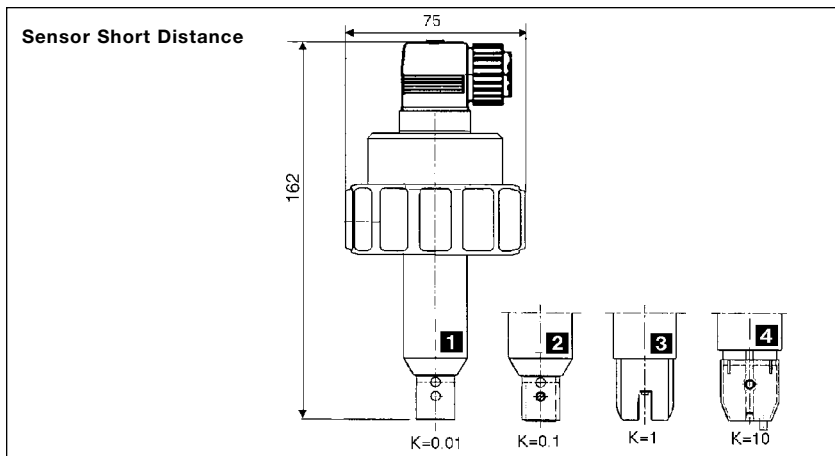
### Conductivity Transmitter Type 8225 Panel-Mounted Version



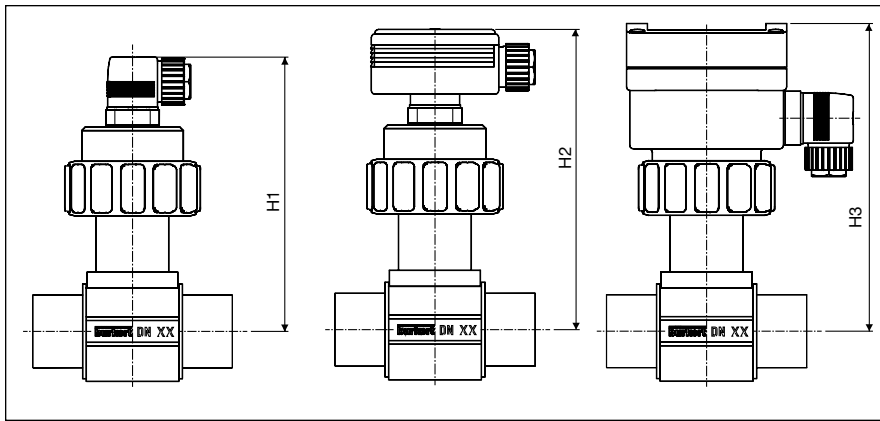
### Conductivity Transmitter Type 8225 Wall-Mounted Version



### Conductivity-Sensor Type 8200 for Burkert Fitting Type S020; 1500; 1501



## Dimensions [mm] - Fittings S020, DN 15 - 50 for Transmitter Type 8225 Or Sensor Type 8220

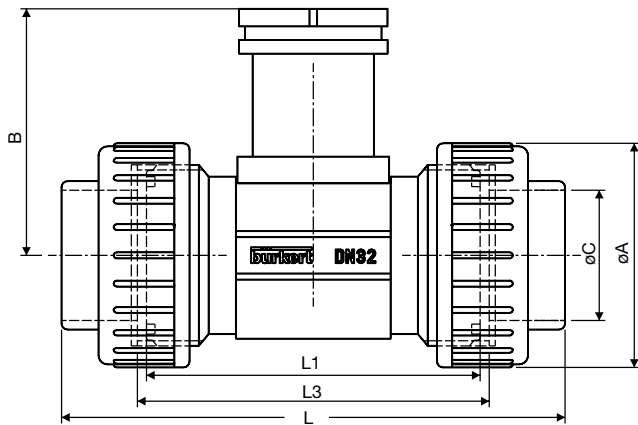


Variable Dimensions [mm]

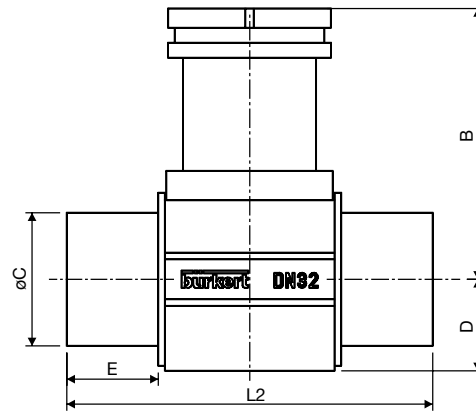
DN	H 1	H2	H3
15	163	177	177
20	163	177	177
25	163	177	177
32	163	177	177
40	164	178	178
50	170	184	184

Applicable for all fitting materials  
DN 15 – 50 (1/2" to 2") sizes and  
process connections.

True Union - PVC, PP, PVDF



Solvent Spigot - PVC, PP, PVDF



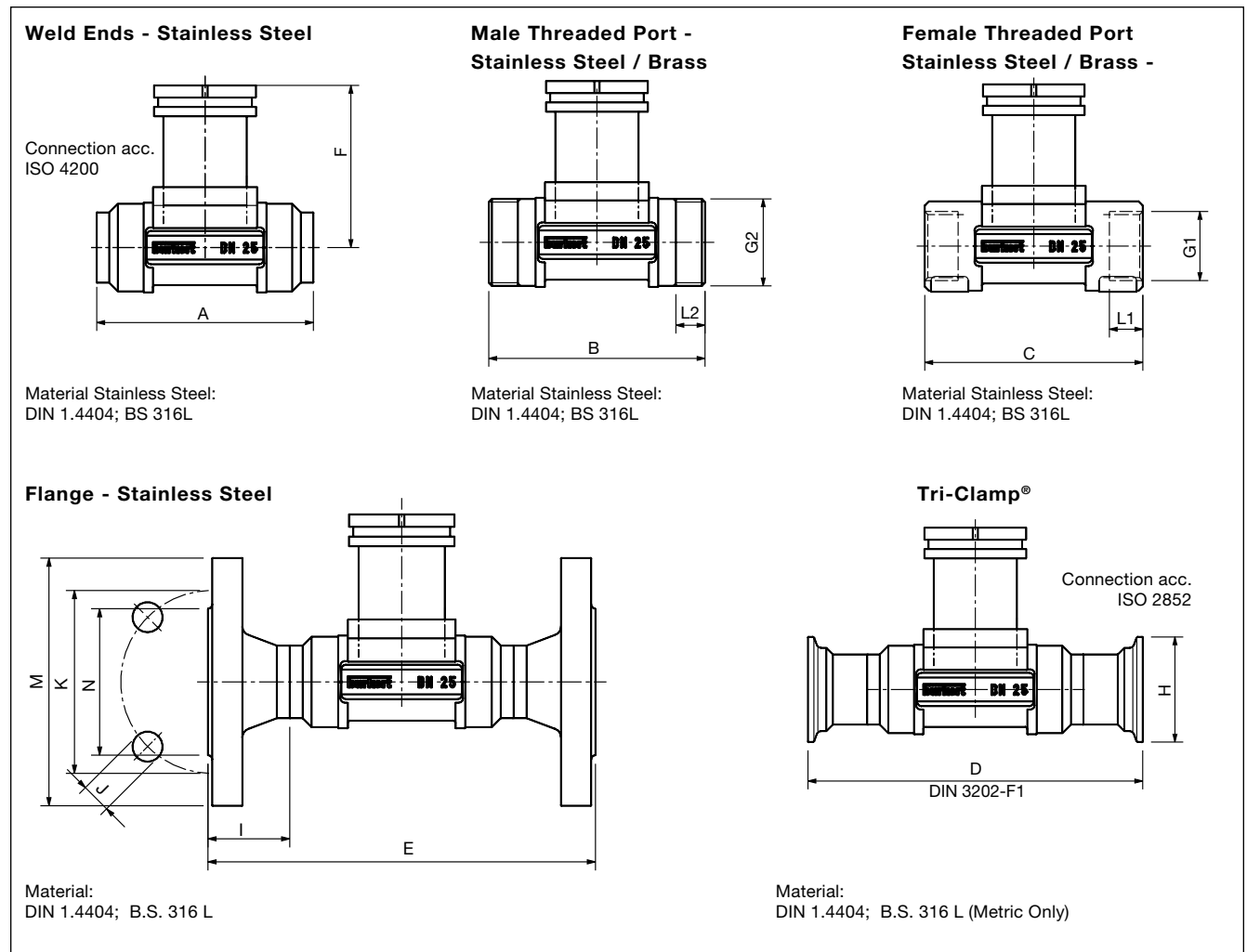
True Union

Solvent Spigot

B	øA	L			øC			L1	L3	DN	D	L2		E	
		DIN	ANSI	JIS	(DIN)	(ANSI)*	(JIS)*					PVC	PP/PVDF	PVC	PP/PVDF
81.4	74	148	---	---	3/4"	---	---	110	116	15	---	---	---	---	---
81.4	74	154	---	---	1"	---	---	110	116	20	---	---	---	---	---
81.4	74	160	---	---	1-1/4"	---	---	110	116	25	---	---	---	---	---
81.4	74	168	170.0	169	1-1/2"	42.2	38.60	110	116	32	27.5	110	100	27.5	20
85.2	83	188	190.2	190	2"	48.3	48.70	120	127	40	31.5	120	106	30.0	23
91.5	103	212	213.6	213	2-1/2"	60.3	60.80	130	136	50	39.5	130	110	37.0	27

\* only for PVC with true union

Dimensions [mm] - Fittings S020, DN 15 - 50



Variable Dimensions [mm] For Weld Ends, Male Threaded Port, Female Threaded Port, Flange, Tri-Clamp®

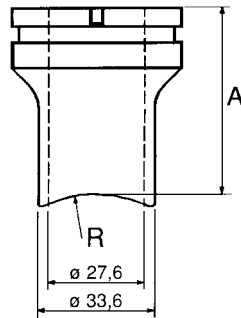
DN	Weld Ends		Length Dimensions							Thread				Tri-Clamp® H	Flange Dimensions					
	ø outside	Wall-thickness	A	B	C	D	E (DIN) (ANSI)	E (JIS)	F	G1	L1	G2	L2		Norm*	I	J	K	M	N
32	42.4	2.0	119	119	120	180	180	178	81.6	G 1-1/4	23.5	G 1/2	18.0	DIN	31.0	4x18.0	100.0	140	78.0	
										NPT 1-1/4	21.0				ANSI	31.0	4x15.8	88.9	117	63.5
										Rc	21.0				JIS	31.0	4x19.0	100.0	135	76.0
40	48.3	2.0	129	129	130	200	200	190	85.4	G 1-1/2	23.5	M55x2	19.0	DIN	36.0	4x18.0	110.0	150	88.0	
										NPT 1-1/2	20.0				ANSI	36.0	4x15.8	98.4	127	73.0
										Rc 1-1/2	19.0				JIS	36.0	4x19.0	105.0	140	81.0
50	60.3	2.6	149	149	150	230	230	216	91.5	G 2	27.5	M64x2	20.0	DIN	41.0	4x18.0	125.0	165	102.0	
										NPT 2	24.0				ANSI	41.0	4x19.0	120.6	152	92.1
										Rc 2	24.0				JIS	41.0	4x19.0	120.0	155	96.0

\* Flange: DIN 2501/2633, length according to DIN 3201-F1;  
 ANSI B16-5-1988, length according to DIN 3201-F1  
 JIS 10K, length according to ANSI B16-10

## Dimensions [mm] - Fittings DN 65 - 100

### Weld-o-Let Fittings With Radius - Stainless Steel

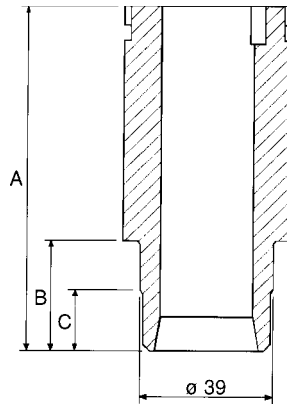
Material: 1.4404 (DIN),  
316L (B.S.)



#### Variable Dimensions [mm]

DN	A	R
65	54.52	36.65
80	53.07	44.45
100	50.71	57.15

### Weld-o-Let Fittings - PE, PP, PVDF

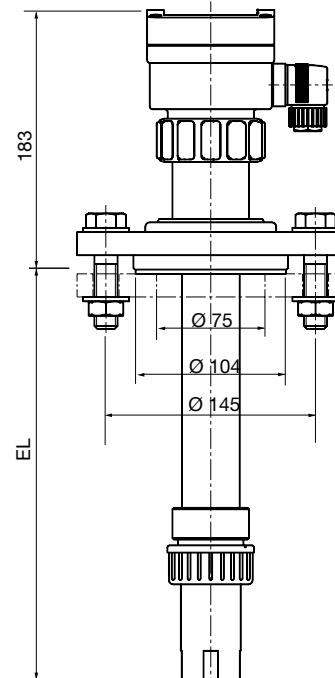
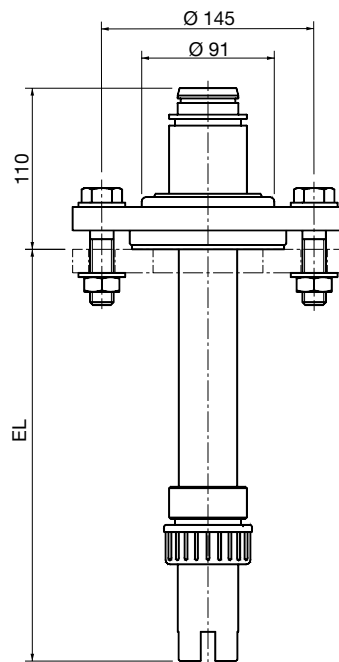


#### Variable Dimensions [mm]

DN	A	PE		PP		PVDF	
		B	C	B	C	B	C
65-100	72.5	13	---	13	---	10.4	---

### Submersion Fitting

Lengths L: 20, 40, 60, 80  
inches



## Ordering Data for Conductivity Transmitter Type 8225

### A Compact Version Of Conductivity Transmitter Type 8225 Consists of Two Basic Units as Follows:

- Fitting Type S020, DN15 to DN50 (1/2" to 2"), or 1500/1501, DN65 to DN100 (2-1/2" to 4")
- Compact Conductivity Transmitter Type 8225

TYPE DESCRIPTION	Electrode	Gasket	Voltage	Worldwide Standard I T E M - N o. 1 x PG 13.5	North America Standard I T E M - N o. Conduit Plug 1/2" NPT
<b>Compact Conductivity Transmitter 4-20 mA Output; Without Relay</b>					
Compact Transmitter 8225	C = 0.01	FPM	12 – 30 VDC	418 962 Z	418 974 V
Compact Transmitter 8225	C = 0.1	FPM	12 – 30 VDC	418 963 S	418 975 W
Compact Transmitter 8225	C = 1.0	FPM	12 – 30 VDC	418 964 T	418 976 X
Compact Transmitter 8225	C = 10	FPM	12 – 30 VDC	418 965 U	418 977 Y
Compact Transmitter 8225	C = 0.01	EPDM	12 – 30 VDC	418 966 V	418 982 N
Compact Transmitter 8225	C = 0.1	EPDM	12 – 30 VDC	418 967 W	418 983 P
Compact Transmitter 8225	C = 1.0	EPDM	12 – 30 VDC	418 968 F	418 984 Q
Compact Transmitter 8225	C = 10	EPDM	12 – 30 VDC	418 969 G	418 985 R
<b>Conductivity Transmitter Compact 4-20 mA Output; Without Relay</b>				<b>Cable Plug DIN</b>	
Compact Transmitter 8225	C = 0.01	FPM	12 – 30 VDC	418 950 H	
Compact Transmitter 8225	C = 0.1	FPM	12 – 30 VDC	418 951 W	
Compact Transmitter 8225	C = 1.0	FPM	12 – 30 VDC	418 952 X	
Compact Transmitter 8225	C = 10	FPM	12 – 30 VDC	418 953 Y	
Compact Transmitter 8225	C = 0.01	EPDM	12 – 30 VDC	418 958 D	
Compact Transmitter 8225	C = 0.1	EPDM	12 – 30 VDC	418 959 E	
Compact Transmitter 8225	C = 1.0	EPDM	12 – 30 VDC	418 960 B	
Compact Transmitter 8225	C = 10	EPDM	12 – 30 VDC	418 961 Y	
<b>Conductivity Transmitter Compact 4-20 mA Output; Without Relay</b>				<b>2 x PG 13.5</b>	
Compact Transmitter 8225	C = 0.01	FPM	115 – 230 VAC	426 935 E	426 951 N
Compact Transmitter 8225	C = 0.1	FPM	115 – 230 VAC	426 936 F	427 864 Q
Compact Transmitter 8225	C = 1.0	FPM	115 – 230 VAC	426 937 G	427 865 R
Compact Transmitter 8225	C = 10	FPM	115 – 230 VAC	426 938 R	427 866 J
Compact Transmitter 8225	C = 0.01	EPDM	115 – 230 VAC	426 939 J	427 867 K
Compact Transmitter 8225	C = 0.1	EPDM	115 – 230 VAC	426 940 X	427 868 U
Compact Transmitter 8225	C = 1.0	EPDM	115 – 230 VAC	426 941 L	427 869 V
Compact Transmitter 8225	C = 10	EPDM	115 – 230 VAC	426 942 M	427 870 S
<b>Conductivity Transmitter Compact 4-20 mA Output; 2 x Relay</b>				<b>2 x PG 13.5</b>	
Compact Transmitter 8225	C = 0.01	FPM	12 – 30 VDC	418 954 Z	418 978 H
Compact Transmitter 8225	C = 0.1	FPM	12 – 30 VDC	418 955 S	418 979 A
Compact Transmitter 8225	C = 1.0	FPM	12 – 30 VDC	418 956 T	418 980 Y
Compact Transmitter 8225	C = 10	FPM	12 – 30 VDC	418 957 U	418 981 M
Compact Transmitter 8225	C = 0.01	EPDM	12 – 30 VDC	418 970 D	418 986 J
Compact Transmitter 8225	C = 0.1	EPDM	12 – 30 VDC	418 971 S	418 987 K
Compact Transmitter 8225	C = 1.0	EPDM	12 – 30 VDC	418 972 T	418 988 U
Compact Transmitter 8225	C = 10	EPDM	12 – 30 VDC	418 973 U	418 989 V
<b>Conductivity Transmitter Compact 4-20 mA Output; 2 x Relay</b>				<b>2 x PG 13.5</b>	
Compact Transmitter 8225	C = 0.01	FPM	115 – 230 VAC	426 943 N	427 871 P
Compact Transmitter 8225	C = 0.1	FPM	115 – 230 VAC	426 944 P	427 872 Q
Compact Transmitter 8225	C = 1.0	FPM	115 – 230 VAC	426 945 Q	427 873 R
Compact Transmitter 8225	C = 10	FPM	115 – 230 VAC	426 946 R	427 874 J
Compact Transmitter 8225	C = 0.01	EPDM	115 – 230 VAC	426 947 J	427 875 K
Compact Transmitter 8225	C = 0.1	EPDM	115 – 230 VAC	426 948 T	427 876 L
Compact Transmitter 8225	C = 1.0	EPDM	115 – 230 VAC	426 949 U	427 877 M
Compact Transmitter 8225	C = 10	EPDM	115 – 230 VAC	426 950 Z	427 878 W

## Ordering Data for Conductivity Transmitter Type 8225

### A Remote Version of Conductivity Transmitter Type 8225 Consists of Three Basic Units:

- Fitting Type S020, DN15 to DN50 (1/2" to 2"), or 1500/1501, DN65 to DN200 (2-1/2" to 8")
- Conductivity-sensor Type 8220 short or long version (includes converter Type 8221)
- Conductivity transmitter Type 8225 wall- or panel-mounted version

TYPE DESCRIPTION	Relay	Sensor	Voltage	ITEM - N o.
<b>Conductivity Transmitter Panel-Mounted Version for Separate Sensor Type 8220; 4-20 mA Output</b>				
Panel-mounted Transmitter 8225	no	no	12 - 30 VDC	426 830 R
Panel-mounted Transmitter 8225	2 x relay	no	12 - 30 VDC	426 831 E
Panel-mounted Transmitter 8225 for > 15 ft. cable length	no	no	12 - 30 VDC	426 832 F
Panel-mounted Transmitter 8205 for > 15 ft. cable length	2 x relay	no	12 - 30 VDC	426 833 G
<b>Conductivity Transmitter Wall-Mounted Version for Separate Sensor Type 8220; 4-20 mA Output</b>				
Wall-mounted Transmitter 8225	no	no	12 - 30 VDC	426 834 H
Wall-mounted Transmitter 8225	2 x relay	no	12 - 30 VDC	426 835 A
Wall-mounted Transmitter 8225	no	no	115 - 230 VDC	426 836 B
Wall-mounted Transmitter 8225	2 x relay	no	115 - 230 VDC	426 837 C
Wall-mounted Transmitter 8225 for > 15 ft. cable length	no	no	12 - 30 VDC	426 838 M
Wall-mounted Transmitter 8225 for > 15 ft. cable length	2 x relay	no	12 - 30 VDC	426 839 N
Wall-mounted Transmitter 8225 for > 15 ft. cable length	no	no	115 - 230 VDC	426 840 T
Wall-mounted Transmitter 8225 for > 15 ft. cable length	2 x relay	no	115 - 230 VDC	426 841 Q

TYPE DESCRIPTION	Gasket	Sensor	Material Pt 1000	ITEM - N o.
<b>Conductivity Sensor Type 8220 Short Version (&lt;15 ft.); PG 9</b>				
8220 with PVDF finger	FPM	C = 0.01	Stainless Steel	426 872 P
8220 with PVDF finger	FPM	C = 0.1	Stainless Steel	426 873 Q
8220 with PVDF finger	FPM	C = 1.0	Stainless Steel	426 874 R
8220 with PVDF finger	FPM	C = 10	Titanium	426 875 J
8220 with PVDF finger	EPDM	C = 0.01	Stainless Steel	426 876 K
8220 with PVDF finger	EPDM	C = 0.1	Stainless Steel	426 877 L
8220 with PVDF finger	EPDM	C = 1.0	Stainless Steel	426 878 V
8220 with PVDF finger	EPDM	C = 10	Titanium	426 879 W
<b>Conductivity Sensor Type 8220 Long Version (&lt;1500 ft.); PG 9</b>				
8220 with PVDF finger	FPM	C = 0.01	Stainless Steel	426 880 L
8220 with PVDF finger	FPM	C = 0.1	Stainless Steel	426 881 H
8220 with PVDF finger	FPM	C = 1.0	Stainless Steel	426 882 A
8220 with PVDF finger	FPM	C = 10	Titanium	426 883 B
8220 with PVDF finger	EPDM	C = 0.01	Stainless Steel	426 884 C
8220 with PVDF finger	EPDM	C = 0.1	Stainless Steel	426 885 D
8220 with PVDF finger	EPDM	C = 1.0	Stainless Steel	426 886 E
8220 with PVDF finger	EPDM	C = 10	Titanium	426 887 F
8221 Signal converter analog/digital				426 888 Q

TYPE DESCRIPTION	Material	Cable Length	ITEM - N o.
<b>Submersion Kit for Conductivity Transmitter Type 8225 and Sensor Type 8200</b>			
Immersion fitting	PP	1.5 ft.	419 567 W
Immersion fitting	PP	3.0 ft.	419 568 F
Immersion fitting	PP	4.5 ft.	419 569 G
Immersion fitting	PP	6.0 ft.	419 570 D
Extension cable 4-wire		1.5 ft.	419 574 V
Extension cable 4-wire		3.0 ft.	419 575 W
Extension cable 4-wire		4.5 ft.	419 576 X
Extension cable 4-wire		6.0 ft.	419 577 Y
Fixing Kit - Flange DN65 with SS-screws	PP		413 615 Q

## Ordering Data for Stainless Steel Fittings S020

Diameters	Materials	Item-No.
<b>SS - Female G-Threaded Ports</b>		
DN 32	SS, FPM	428 739 B
DN 40	SS, FPM	428 740 Q
DN 50	SS, FPM	428 741 D
<b>SS - Female NPT-Threaded Ports</b>		
1-1/4"	SS, FPM	428 745 H
1-1/2"	SS, FPM	428 746 A
2"	SS, FPM	428 747 B
<b>SS - Female ISO7 (JIS) Threaded Ports</b>		
DN 32	SS, FPM	428 751 F
DN 40	SS, FPM	428 752 G
DN 50	SS, FPM	428 753 H
<b>SS - Male G Threaded Ports</b>		
DN 32	SS, FPM	428 757 D
DN 40	SS, FPM	428 758 N
DN 50	SS, FPM	428 759 P
<b>SS - Weld Ends (Metric)</b>		
DN 32	SS, FPM	428 763 B
DN 40	SS, FPM	428 764 C
DN 50	SS, FPM	428 765 D
<b>SS - Tri-Clamp® (ISO 2852) (Metric)</b>		
DN 32	SS, FPM	428 769 R
DN 40	SS, FPM	428 770 N
DN 50	SS, FPM	428 771 B
<b>SS - DIN Flanges (DIN 2501)</b>		
DN 32	SS, FPM	428 775 F
DN 40	SS, FPM	428 776 G
DN 50	SS, FPM	428 777 H
<b>SS - Flanges (JIS 10K)</b>		
DN 32	SS, FPM	431 056 M
DN 40	SS, FPM	431 057 N
DN 50	SS, FPM	431 058 X
<b>SS - ANSI Flanges (ANSI B16-5-1988)</b>		
DN 32	SS, FPM	428 781 W
DN 40	SS, FPM	428 782 X
DN 50	SS, FPM	428 783 Y
<b>SS - Weld-o-Let</b>		
DN 65	SS	418 112 M
DN 80	SS	418 113 N
DN 100	SS	418 114 P

## Ordering Data for Brass Fittings Type S020

Diameters	Materials	Item-No.
<b>Brass - Female G-Threaded Ports</b>		
DN 32	Brass, FPM	428 715 T
DN 40	Brass, FPM	428 716 U
DN 50	Brass, FPM	428 717 V
<b>Brass - Female NPT-Threaded Ports</b>		
DN 32	Brass, FPM	428 721 Z
DN 40	Brass, FPM	428 722 S
DN 50	Brass, FPM	428 723 T
<b>Brass - Female ISO7 (JIS) Threaded Ports</b>		
DN 32	Brass, FPM	428 727 X
DN 40	Brass, FPM	428 728 G
DN 50	Brass, FPM	428 729 H
<b>Brass - Male G/Metric Threaded Ports</b>		
DN 32	Brass, FPM	428 733 V
DN 40	Brass, FPM	428 734 W
DN 50	Brass, FPM	428 735 X

## Ordering Data for Plastic Fittings Type S020

Diameters	Materials	Item-No.
<b>PVC - True Union DIN</b>		
DN 15	PVC, FPM	430 837 L
DN 20	PVC, FPM	430 838 V
DN 25	PVC, FPM	430 839 W
DN 32	PVC, FPM	428 673 H
DN 40	PVC, FPM	428 674 A
DN 50	PVC, FPM	428 675 B
<b>PVC - True Union ASTM</b>		
1-1/4"	PVC, FPM	428 685 W
1-3/4"	PVC, FPM	428 686 X
2"	PVC, FPM	428 687 Y
<b>PVC - True Union JIS</b>		
DN 32	PVC, FPM	429 081 M
DN 40	PVC, FPM	429 082 N
DN 50	PVC, FPM	429 083 P
<b>PVC - Solvent Spigot (Metric)</b>		
DN 32	PVC, FPM	428 679 P
DN 40	PVC, FPM	428 680 D
DN 50	PVC, FPM	428 681 S
<b>PE - Weld-o-Let</b>		
DN 65-100	PE	418 642 G


Diameters	Materials	Item-No.
<b>PP - True Union with Threaded Port</b>		
DN 15	PP, FPM	430 840 B
DN 20	PP, FPM	430 841 Y
DN 25	PP, FPM	430 842 Z
DN 32	PP, FPM	428 691 U
DN 40	PP, FPM	428 692 V
DN 50	PP, FPM	428 693 W
<b>PP - Weld Ends</b>		
DN 32	PP, FPM	428 697 S
DN 40	PP, FPM	428 698 B
DN 50	PP, FPM	428 699 C
<b>PP - Weld-o-Let</b>		
DN 65-100	PP	418 650 L
<b>PVDF - True Union with Threaded Port</b>		
DN 15	PVDF, FPM	430 843 S
DN 20	PVDF, FPM	430 844 T
DN 25	PVDF, FPM	430 845 U
DN 32	PVDF, FPM	428 703 G
DN 40	PVDF, FPM	428 704 H
DN 50	PVDF, FPM	428 705 A
<b>PVDF - Weld Ends</b>		
DN 32	PVDF, FPM	428 709 N
DN 40	PVDF, FPM	428 710 A
DN 50	PVDF, FPM	428 711 X
<b>PVDF - Weld-o-Let</b>		
DN 65-100	PVDF	418 658 Q

Technical Data



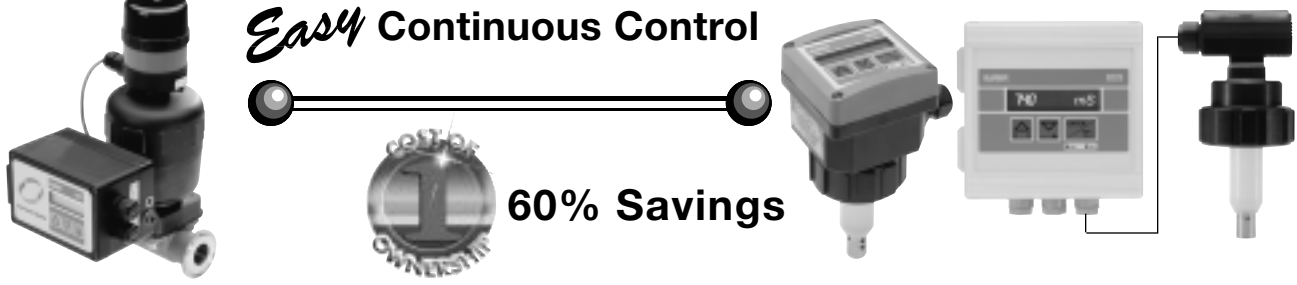
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