Sanitary closed type with 1.5" ISO clamp

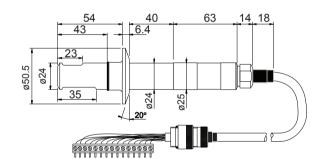
4-electrode conductivity sensor with internal electrodes. Used with Dual Conductivity TCU series 3200.

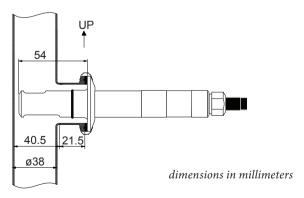
#### **Typical mounting**

- Mounting with a 1.5" ISO 2852 clamp (not included) in a T-piece with a welding nipple.
- Can be mounted to pipes of any directions; avoid mounting on the top side of a horizontal pipe.
- Flow opening must be parallel to the direction of the flow.
- Arrow on sensor indicates the position of the temperature sensor.
- No air bubbles or sedimentation at installation point.

Technical dataMaterialsPVDF, EPDM, silicone rubber, steel W 1.4404 (AISI 316L)Flange and cable connection: steel W 1.4404 (AISI 316L)Pressure10 bar at 130 °CCell constantSensor specific, factory calibratedAccuracy± 2 %Meas. range0.0510 000 µS/cmLinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cm error +5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapterWeight1.0 kg		
Instantial1.4404 (AISI 316L) Flange and cable connection: steel W 1.4404 (AISI 316L)Pressure10 bar at 130 °CCell constantSensor specific, factory calibratedAccuracy± 2 %Meas. range0.0510 000 µS/cmLinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cmTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Technical data	
1.4404 (AISI 316L)Pressure10 bar at 130 °CCell constantSensor specific, factory calibratedAccuracy± 2 %Meas. range0.0510 000 µS/cmLinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cmTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Materials	
Cell constantSensor specific, factory calibratedAccuracy± 2 %Meas. range0.0510 000 µS/cmLinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cm error +5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter		
Accuracy± 2 %Meas. range0.0510 000 μS/cmLinearityIn stainless steel pipe from 1μS/cm to 10.000μS/cm ±1 % per decade From 10.000 μS/cm to 200.000 μS/cm error +5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Pressure	10 bar at 130 °C
NearryD 2 rsMeas. range0.0510 000 µS/cmLinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cm error +5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Cell constant	Sensor specific, factory calibrated
LinearityIn stainless steel pipe from 1µS/cm to 10.000µS/cm ±1 % per decade From 10.000 µS/cm to 200.000 µS/cm error +5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T90, 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Accuracy	± 2 %
10.000μS/cm ±1 % per decade From 10.000 μS/cm to 200.000 μS/cm error ±5 % per decade.Temp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Meas. range	0.0510 000 μS/cm
Time delay T90, 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Linearity	10.000μS/cm ±1 % per decade From 10.000 μS/cm to 200.000 μS/cm
Sensor cable   PVC 18 x 0.22 mm <sup>2</sup> screened max. temp. 70 °C     Cable length   Standard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 m     Connection   15-pole strip connector with MF20 cable adapter	Temp. sensor	
Cable length Standard length 5 m   COND15242/10 -> 10 m   COND15242/15 -> 15 m   Connection   15-pole strip connector with MF20 cable adapter	Protection	IP65 splash-proof (DIN 40 050)
COND15242/10 -> 10 m     COND15242/15 -> 15 m     Connection   15-pole strip connector with MF20 cable adapter	Sensor cable	
cable adapter	Cable length	COND15242/10 -> 10 m
Weight 1.0 kg	Connection	
	Weight	1.0 kg







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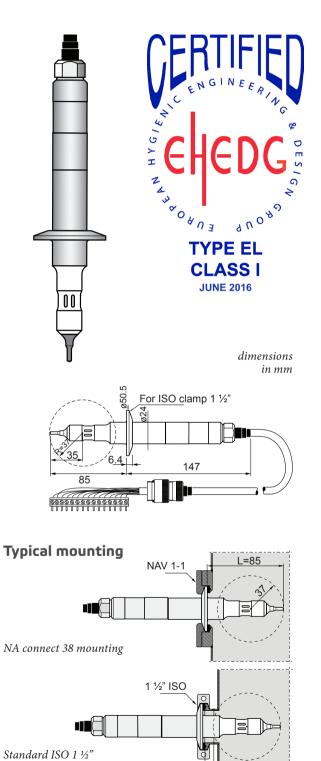
Sanitary open type for tank mounting

4-electrode conductivity sensor with external electrodes. Surface roughness of all wet parts Ra < 0.80 μm. Used with TCU series 3200.

#### Mounting

- Mounting with a 1 <sup>1</sup>/<sub>2</sub>" ISO 2852 clamp (not included).
- Mount in a place where no air bubbles or sedimentation occur.
- The sensor has been calibrated in a measuring pipe with inside Ø180 mm. If the sensor will be mounted to a pipe smaller than Ø100 mm, recalibration is required.

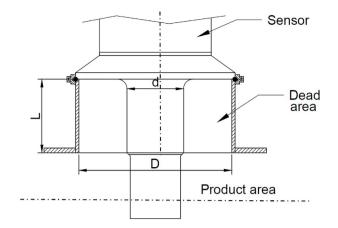
Technical dataMaterialsPTFE and steel W 1.4404 (AISI 316L). Flange and cable connection: steel W 1.4404 (AISI 316L). Inside pressure gasket: SILPressure12 bar at 150 °CCell constantSensor specific, factory calibrated Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 µS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapterWeight1.5 kg		
Filange and cable connection: steel W 1.4404 (AISI 316L). Inside pressure gasket: SILPressure12 bar at 150 °CCell constantSensor specific, factory calibrated Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 µS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Technical data	
1.4404 (AISI 316L). Inside pressure gasket: SILPressure12 bar at 150 °CCell constantSensor specific, factory calibrated Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 μS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Materials	PTFE and steel W 1.4404 (AISI 316L).
Pressure12 bar at 150 °CCell constantSensor specific, factory calibrated Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 μS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter		5
Cell constantSensor specific, factory calibrated Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 µS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter		Inside pressure gasket: SIL
Calibrated in a 180 mm pipeAccuracy± 2 %Meas. range5200 000 μS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Pressure	12 bar at 150 °C
Accuracy± 2 %Meas. range5200 000 μS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Cell constant	Sensor specific, factory calibrated
Meas. range5200 000 µS/cmLinearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter		Calibrated in a 180 mm pipe
Linearity± 2 % per decadeTemp. sensorPt 1000 (IEC 751 class A) Time delay T90, 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Accuracy	± 2 %
Temp. sensorPt 1000 (IEC 751 class A) Time delay T90, 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Meas. range	5200 000 μS/cm
Time delay T <sub>90</sub> , 9 secProtectionIP65 splash-proof (DIN 40 050)Sensor cablePVC 18 x 0.22 mm² screened max. temp. 70 °CCable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Linearity	± 2 % per decade
Protection   IP65 splash-proof (DIN 40 050)     Sensor cable   PVC 18 x 0.22 mm² screened max. temp. 70 °C     Cable length   Standard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 m     Connection   15-pole strip connector with MF20 cable adapter	Temp. sensor	Pt 1000 (IEC 751 class A)
Sensor cable   PVC 18 x 0.22 mm <sup>2</sup> screened max. temp. 70 °C     Cable length   Standard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 m     Connection   15-pole strip connector with MF20 cable adapter		Time delay T <sub>90</sub> , 9 sec
Cable lengthStandard length 5 mCoND15242-10 -> 10 mCOND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Protection	IP65 splash-proof (DIN 40 050)
Cable lengthStandard length 5 m COND15242-10 -> 10 m COND15242-15 -> 15 mConnection15-pole strip connector with MF20 cable adapter	Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
COND15242-10 -> 10 m     COND15242-15 -> 15 m     Connection     15-pole strip connector with MF20 cable adapter		max. temp. 70 °C
COND15242-15 -> 15 m   Connection   15-pole strip connector with MF20 cable adapter	Cable length	Standard length 5 m
Connection 15-pole strip connector with MF20 cable adapter		COND15242-10 -> 10 m
cable adapter		COND15242-15 -> 15 m
Weight 1.5 kg	Connection	
	Weight	1.5 kg



clamp mounting



- Mounting in an EHEDG approved process connection.
- The installation must comply to the EHEDG criteria of L < D-d.
- Tri-clamps and combifit gaskets must be EHEDG approved type.





## Sanitary Sensor 4683s

Pharmaceutical sanitary open type for ultra-pure injection water

4-electrode conductivity sensor with external electrodes. Surface roughness of all wet parts Ra < 0.80  $\mu$ m. Used with series 3200 measurements.

#### Mounting

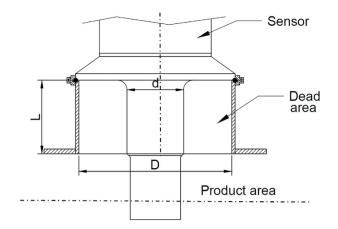
- Mounting with a 1 <sup>1</sup>/<sub>2</sub>" ISO clamp (not included).
- Minimum distance to surroundings is 24.3 mm!
- On a horizontal pipe, always mount to the side of the pipe and at a place where no air bubbles occur. The piping must be made in a self-draining manner.

Technical dataMaterialsPTFE, silicone rubber, and steel W 1.4404 (AISI 316L)Pressure12 bar at 150 °CCell constantSensor specific, factory calibrated Calibrated in a ø51 mm SS pipe ø63 mm SS pipe gives an error of approximately -6% ø63 mm plastic pipe gives an error of approximately 20–30%.Accuracy± 2 %Meas. range0.0510 000 µS/cmLinearity± 2 % per decade	
1.4404 (AISI 316L)     Pressure   12 bar at 150 °C     Cell constant   Sensor specific, factory calibrated     Calibrated in a ø51 mm SS pipe   ø63 mm SS pipe gives an error of approximately -6%     ø63 mm plastic pipe gives an error of approximately 20–30%.     Accuracy   ± 2 %     Meas. range   0.0510 000 µS/cm	
Cell constantSensor specific, factory calibrated Calibrated in a ø51 mm SS pipe ø63 mm SS pipe gives an error of approximately -6% ø63 mm plastic pipe gives an error of approximately 20–30%.Accuracy± 2 %Meas. range0.0510 000 µS/cm	
Calibrated in a ø51 mm SS pipe ø63 mm SS pipe gives an error of approximately -6% ø63 mm plastic pipe gives an error of approximately 20–30%.Accuracy± 2 %Meas. range0.0510 000 µS/cm	
ø63 mm SS pipe gives an error of approximately -6%ø63 mm plastic pipe gives an error of approximately 20–30%.Accuracy± 2 %Meas. range0.0510 000 μS/cm	
proximately -6%ø63 mm plastic pipe gives an error of approximately 20–30%.Accuracy± 2 %Meas. range0.0510 000 μS/cm	
approximately 20–30%.       Accuracy     ± 2 %       Meas. range     0.0510 000 μS/cm	
Meas. range 0.0510 000 μS/cm	:
Linearity ± 2 % per decade	
Below 5 µS/cm +0.01 µS/cm	
Temp. sensor Pt 1000 (IEC 751 class A)	
Time delay T <sub>90</sub> , 9 sec	
Protection IP65 splash-proof (DIN 40 050)	
Sensor cable PVC 18 x 0.22 mm <sup>2</sup> screened	
max. temp. 70 °C	
Cable length Standard length 5 m	
COND15242-10 -> 10 m	
COND15242-15 -> 15 m	
Connection 15-pole strip connector with MF20 cable adapter	
Weight 0.6 kg	





- Mounting in an EHEDG approved process connection.
- The installation must comply to the EHEDG criteria of L < D-d.
- Tri-clamps and combifit gaskets must be EHEDG approved type.





## Sanitary Sensor 4624s

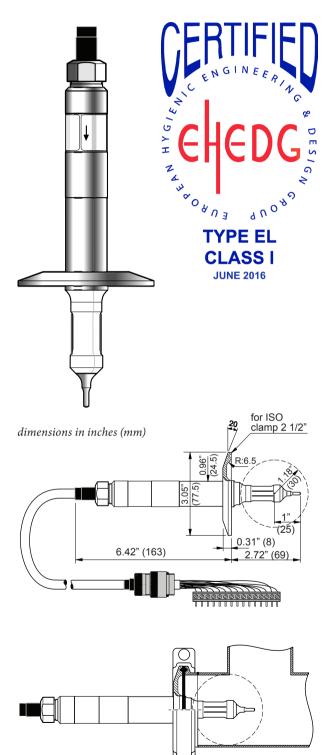
3-A sanitary open type for ultra pure water

4-electrode conductivity sensor with external electrodes. Surface roughness of all wet parts Ra < 0.80 μm. Used with Dual Conductivity TCU series 3200.

#### Typical mounting

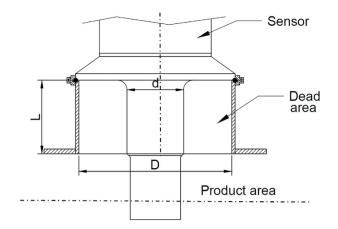
- Mounting with 2 ½ " ISO 2852 clamp (not included)
- Keep a minimum distance to the surroundings.
- On a horizontal pipe, mount to the side of the pipe and make sure no air bubbles occur at the installation point.
- Construct piping in a self-draining manner.

Technical data	
Materials	PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
Pressure	12 bar at 150 °C
Cell constant	Sensor specific, factory calibrated
	Calibrated in a ø63 mm pipe.
	ø76 mm pipe gives an error of -3 %
Accuracy	± 2 % or ± 0.01 μS/cm
Meas. range	0.0510 000 μS/cm
Linearity	± 2 % or ± 0.01 μS/cm
	Below 5 μS/cm + 0.01 μS/cm
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
	max. temp. 70 °C
Cable length	Standard length 5 m
	COND15242-10 -> 10 m
	COND15242-15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.0 kg





- Mounting in an EHEDG approved process connection.
- The installation must comply to the EHEDG criteria of L < D-d.
- Tri-clamps and combifit gaskets must be EHEDG approved type.





Sanitary closed type

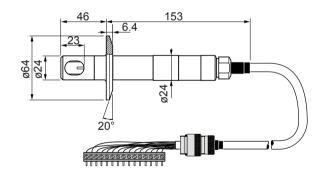
4-electrode conductivity sensor with internal electrodes. Used with Dual Conductivity TCU series 3200.

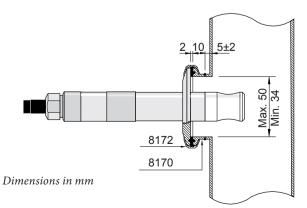
#### Mounting

- Mounting with 2" ISO 2852 clamp (not included) in a short Tee with a welding nipple.
- No air bubbles or sedimentation at the installation point.
- Do not mount on the top side of a horizontal pipe.
- Position the flow opening parallel to the direction of the flow.

Technical data	
Materials	PVDF, EPDM, silicone rubber and steel W 1.4404 (AISI 316L)
	Flange and cable connection: steel W 1.4404 (AISI 316L)
Pressure	10 bar at 130 °C
Cell constant	Sensor specific, factory calibrated
Accuracy	± 3 %
Meas. range	20200 000 μS/cm
Linearity	± 3.8 % per decade
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
	max. temp. 70 °C
Cable length	Standard length 5 m
	COND15242/10 -> 10 m
	COND15242/15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.0 kg







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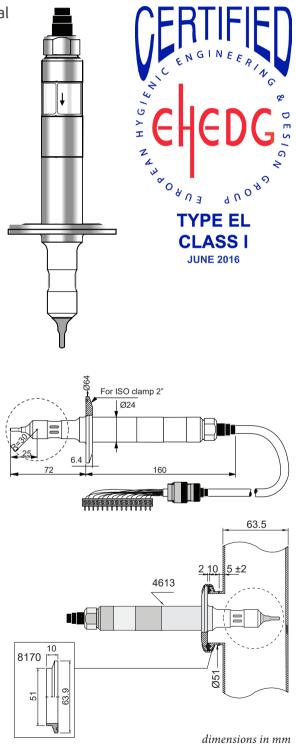
#### Sanitary open type

4-electrode conductivity sensor with external electrodes. Surface roughness of wet parts Ra < 0.80 μm. Used with TCU series 3200.

#### Mounting

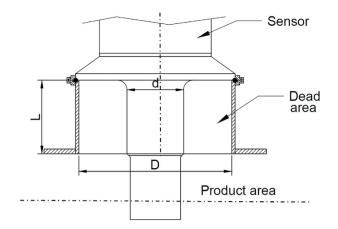
- Mounting with a 2" ISO 2852 clamp (not included).
- Calibrated in a measuring pipe: outside Ø63 mm, inside Ø60 mm. During factory calibration electrodes are directed towards pipe wall as shown. If original factory calibration is used, mount the sensor in the same way; recalibration is required if mounted to a larger pipe or with a different electrode direction.
- On a horizontal pipe, mount to the side of the pipe. Make sure no air bubbles occur at installation point.

Technical data	
Materials	Sensor: PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
	Flange and cable connection: W 1.4404 (AISI 316L)
Pressure	12 bar at 150 °C
Cell constant	Sensor specific, factory calibrated
	Calibrated in ø63 mm SS pipe.
	ø51 mm pipe gives an error of +6 %
Accuracy	± 2 %
Meas. range	5200 000 μS/cm
Linearity	± 2 % per decade
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
	max. temp. 70 °C
Cable length	Standard length 5 m
	COND15242-10 -> 10 m
	COND15242-15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.1 kg





- Mounting in an EHEDG approved process connection.
- The installation must comply to the EHEDG criteria of L < D-d.
- Tri-clamps and combifit gaskets must be EHEDG approved type.





## Sanitary Sensor 4613s

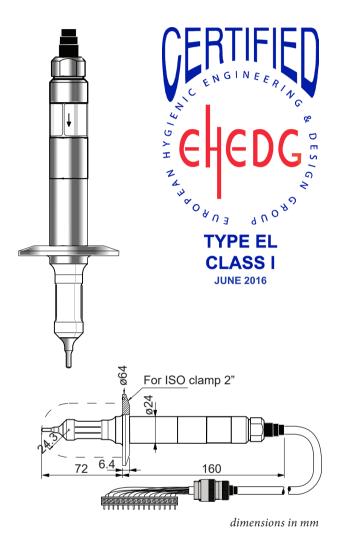
Pharmaceutical sanitary open type for ultra pure injection water

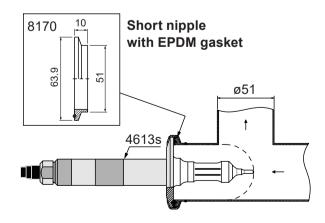
4-electrode conductivity sensor with external electrodes. Surface roughness of all wet parts Ra < 0.80 μm. Used with TCU series 3200.

#### Mounting

- Mounting with a 2" ISO 2852 clamp (not included).
- Minimum distance to surroundings: 24.3 mm.
- On a horizontal pipe, mount to the side of the pipe and make sure no air bubbles occur at the installation point.
- Construct the piping in a self-draining manner.

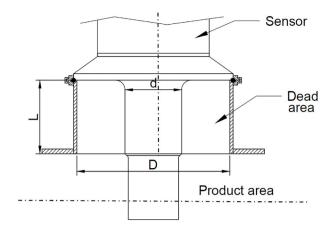
Technical data	
Materials	PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
Pressure	12 bar at 150 ºC
Cell constant	Sensor specific, factory calibrated
	Calibrated in ø51 mm SS pipe.
	ø63 mm SS pipe gives an error of ~ −6 %.
	Ø63 mm plastic pipe gives an error of ~ 20–30 %
Accuracy	± 2 % or ± 0.01 μS/cm
Meas. range	0.0510 000 μS/cm
Linearity	± 2 % per decade
	Below 5 μS/cm + 0.01 μS/cm
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
	max. temp. 70 ºC
Cable length	Standard length 5 m
	COND15242-10 -> 10 m
	COND15242-15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.1 kg

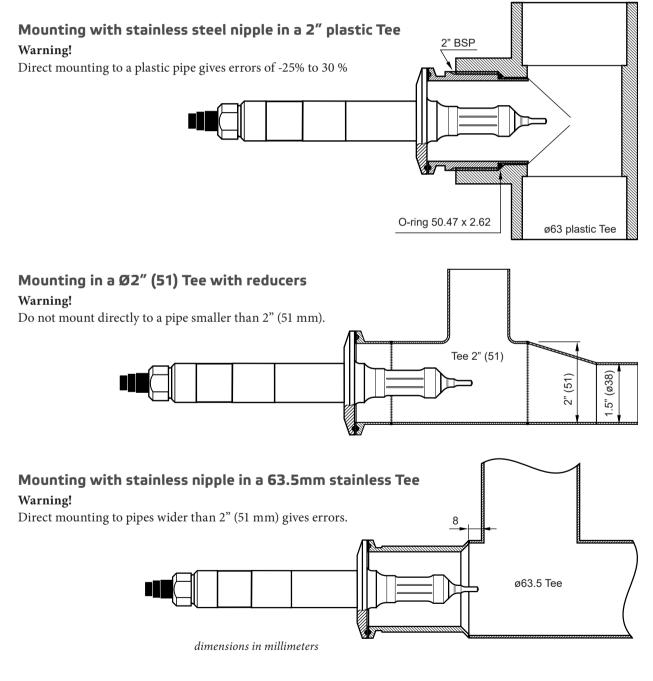






- Mounting in an EHEDG approved process connection.
- The installation must comply to the EHEDG criteria of L < D-d.
- Tri-clamps and combifit gaskets must be EHEDG approved type.







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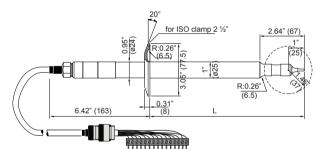
3-A sanitary open type

4-electrode conductivity sensor with external electrodes. Used with TCU series 3200.

Technical data	
Length	220 mm or to be specified, max. 2000 mm
Materials	PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
	Wet parts of sensor polished according to 3-A sanitary standard, Ra < 32 μin (0.80 μm)
Pressure	12 bar at 150 °C
Cell constant	Sensor specific, factory calibrated
	Calibrated in a ø180 mm vessel.
	Special calibration is needed for use on a ø2.5″ (ø63.5 mm) pipe.
Accuracy	± 2 %
Meas. range	5200 000 μS/cm
Linearity	± 2 % per decade
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 12 x 0.25 mm <sup>2</sup> screened
	max. temp. 70 °C
Cable length	Standard length 5 m
	COND15242/10 -> 10 m
	COND15242/15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.2 kg

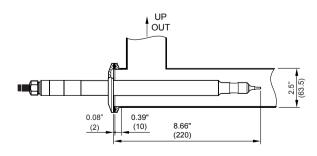
dimensions

in inches (mm)

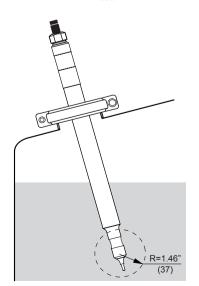


#### Typical mounting

Sensor mounting with 2 ½" ISO 2852 clamp (not included). Keep the minimum distance to the surroundings! Mount in a place where no air bubbles occur. Construct the piping in a self-draining manner.



For more information, contact your local Valmet office. www.valmet.com





Sanitary open type

4-electrode conductivity sensor with external electrodes. Used with Dual Conductivity TCU series 3200. Universal flange for SMS38, DIN DN32 and 40 union.

#### Mounting

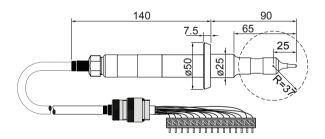
- Mounting requires a welding nipple.
- Sensor can be mounted in any direction.
- Keep the minimum distance (R = 37 mm) to the surroundings!
- Make sure no air pockets or bubbles occur at the installation point.

#### Accessories SMS38

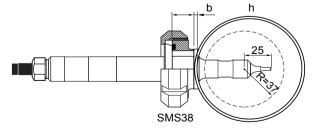
- Union nut 8270
- Nipple with gasket 8285, height 22 mm, diameter 60

PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
12 bar at 150 °C
Sensor specific, factory calibrated Calibrated in a ø76 mm pipe. ø63.5 mm pipe gives error + 3 %.
± 2 %
20200 000 µS/cm
± 2 % per decade
Pt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 sec
IP65 splash-proof (DIN 40 050)
PVC 18 x 0.22 mm <sup>2</sup> screened max. temp. 70 °C
Standard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 m
15-pole strip connector with MF20 cable adapter
0.9 kg





#### Typical mounting



Dimensions in mm

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For more information, contact your local Valmet office. www.valmet.com

Sanitary open type

4-electrode conductivity sensor with external electrodes. Used with Dual Conductivity TCU series 3200. Universal flange for SMS38, DIN DN32 and 40 union.

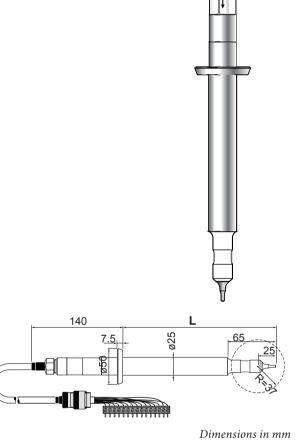
#### Mounting

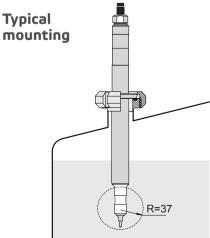
- Mounting requires a welding nipple.
- Sensor can be mounted in any direction.
- Keep the minimum distance (R = 37 mm) to the surroundings!
- Mount in a place where no air pockets or bubbles occur.

#### Accessories SMS38

- Union nut 8270
- Nipple with gasket 8285, height 22 mm, diameter 60

Technical data	a
Length	L = 220 mm or to be specified, max. 2.5 m
Materials	PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
Pressure	12 bar at 150 °C
Cell constant	Sensor specific, factory calibrated
	Calibrated in an open vessel
Accuracy	± 2 %
Meas. range	20200 000 μS/cm
Linearity	± 2 % per decade
Temp. sensor	Pt 1000 (IEC 751 class A)
	Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened
	max. temp. 70 °C
Cable length	Standard length 5 m
	COND15242/10 -> 10 m
	COND15242/15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	0.9 kg







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Sanitary closed type for small pipes

4-electrode conductivity sensor with internal electrodes. Resistant to acetone. Used with Dual Conductivity TCU series 3200.

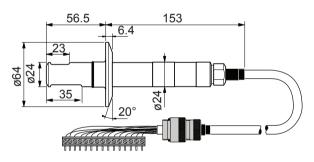
#### Typical mounting

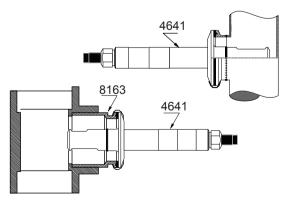
- Mounting with a 2 " ISO 2852 clamp (not included) in a short Tee with a welding nipple.
- Sensor can be mounted in pipes of all directions; avoid mounting to the upper side of a horizontal pipe.
- Mount to a place where no air bubbles or sedimentation occur.
- Flow opening should be parallel to the direction of the flow.

Technical data	
Materials	PVDF, EPDM, silicone rubber and steel W 1.4404 (AISI 316L) Flange and cable connection: steel W 1.4404 (AISI 316L)
	Temperature sensor PFA coated
Pressure	10 bar at 130 °C
Cell constant	Sensor specific, factory calibrated
Accuracy	± 2 %
Meas. range	5200 000 μS/cm
Linearity	± 1 % per decade Below 5μS/cm ± 2 % per decade
Temp. sensor	Pt 1000 (IEC 751 class A) Time delay T <sub>90</sub> , 9 sec
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 18 x 0.22 mm <sup>2</sup> screened max. temp. 70 °C
Cable length	Standard length 5 m COND15242/10 -> 10 m COND15242/15 -> 15 m
Connection	15-pole strip connector with MF20 cable adapter
Weight	1.0 kg



dimensions in millimeters







For more information, contact your local Valmet office. www.valmet.com