



OPTIFLUX 2000 Technical Datasheet

Electromagnetic Flow Sensor

- Engineered and manufactured for the water and wastewater industry
- All relevant approvals for potable water
- Long-term reliability and durability



KROHNE

Solution for the water and wastewater industry

The **OPTIFLUX 2000** electromagnetic flow sensor is the optimum solution for water and wastewater applications. Its long-term reliability and durability make it the standard flow sensor for the water market.



- ① Flanged design
- ② DVGW and ISO installation lengths
- ③ PP and hard rubber liners

Highlights

- Drinking water approvals including KTW, WRc, KIWA, ACS
- Proven and unsurpassed lifetime
- Maintenance free
- In-situ verification with KROHNE MagCheck
- Compliance with OIML R-49 and ISO 4064
- Optionally permanently submersible, buried underground

Industries

- Water
- Wastewater
- Pulp & Paper
- Minerals & Mining
- Iron, Steel & Metals
- Power plant

Applications

- Water distribution networks
- Irrigation
- Municipal watering
- Water purification
- Cooling stations
- District heating

OPTIFLUX 2000 for the water and wastewater industry

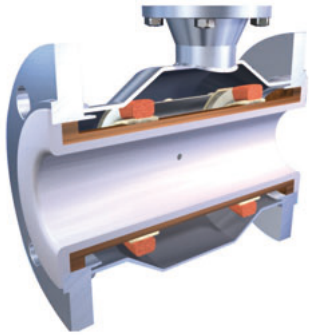


OPTIFLUX 2000 has been designed for measuring potable water and water with suspended particles. Throughout the history of our company, KROHNE development and application engineers have been continuously pushing the limits of feasibility in developing and testing new instruments. The results are innovations that go far beyond the requirements of the customer, thereby setting new standards for the market.

OPTIFLUX 2000 is designed for "commercial" use according to European Directive MI-001. The level of precision complies with the latest stipulations of the ISO/EN and MI-001 standards, with a ratio of

400 between Q1 and Q3 within the legal requirements.

However, OPTIFLUX 2000 also means "proved by KROHNE"; this covers specific trials, measurements and tests that go beyond the legal specifications – and on which our customers can rely 100 percent. For example, we subject the OPTIFLUX 2000 electronics to a series of extensive temperature change tests, in which the converter is exposed to cyclical fluctuations from -20...+65°C. Every OPTIFLUX 2000 meter that leaves our factory is first wet-calibrated on our officially certified calibration rigs (EN 17025).



Construction

The OPTIFLUX 2000 measuring tube has a smooth, cylindrical shape. This design, consisting of a circular cross section (no internal or moving parts) and a homogeneous magnetic field, forms the basis for a flow-optimized pipe cross section, thereby providing reliable measurements that are largely independent of the flow profile. This design has obvious advantages. OPTIFLUX 2000 can measure the flow bidirectional. As an additional benefit, it optimizes the precision of the measurement results, thanks to high sampling rates. And it does this with minimum consumption, an indispensable advantage, for example during night time operation. In addition, the required straight inlet and outlet runs are only 3D or 2D.

The lining of the measuring tube is made of polypropylene or hard rubber and is resistant to corrosion, aging and abrasion. As a result, OPTIFLUX 2000 is a food-grade water meter in accordance with KTW/DVGW-W270 and therefore also certified for drinking water. The surface and shape of the measuring tube also minimize mineral deposits, resulting in exemplary measurement quality – even over the long term.



Communication

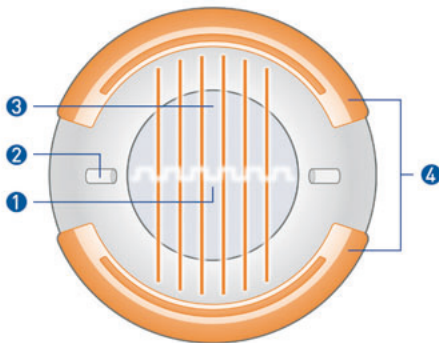
Bulk water meters are installed in places like remote shafts, deep well-connecting chambers and public drinking water networks. The ability to read the measured results on-site may be standard, but it does not always meet the current and actual needs of the user or operator. That is why OPTIFLUX 2000 comes with optional, state-of-the-art fieldbus communication systems. The stored data is transmitted (e.g., once a day) by HART, Profibus, Fieldbus or Modbus, and then forwarded to a management system.



Design and performance

Electromagnetic water meters have many important advantages over their mechanical counterparts: outstanding long-term stability, maximum process reliability, no maintenance – to name just a few. As a result, OPTIFLUX 2000 can deliver precise and reliable measurements for many years.

Yet OPTIFLUX 2000 can do a whole lot more. The water meter has extensive factory-set diagnostic functions that provide continuous self-diagnosis in accordance with the applicable standards such as OIML R-49, EN 14154, ISO 4064 and MI-001. Converter operation is also monitored continuously, as are the sensor electrodes, the flow profile and electronic functions. Malfunctions and irregularities are detected and immediately displayed on the high-contrast, high-resolution display.



- ① Voltage (induced voltage proportional to flow)
- ② Electrodes
- ③ Magnetic field
- ④ Field coils

Operating principle

An electrically conductive fluid flows inside an electrically insulating pipe through a magnetic field. This magnetic field is generated by a current, flowing through a pair of field coils. Inside of the fluid, a voltage U is generated:

$$U = v * k * B * D, \text{ in which:}$$

v = mean flow velocity

k = factor correcting for geometry

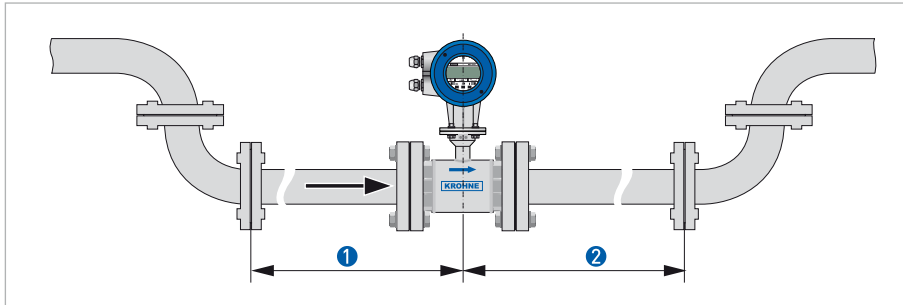
B = magnetic field strength

D = inner diameter of flow meter

The signal voltage U is picked off by electrodes and is proportional to the main flow velocity v and thus the flow rate q . The signal voltage is quite small (typically 1 mV at $v = 3 \text{ m/s}$ (10 ft/s) and field coil power of 1 W). Finally, a signal converter is used to amplify the signal voltage, filter it (separate from noise) and convert it into signals for totalising, recording and output processing.

Technical data

Installation conditions



- ① ≥ 5DN
- ② ≥ 2DN

Further installation conditions can be found in the Quick Start document.

Nominal diameter	VN14										VN15								VN16							
ASME [inch]	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Nominal flange pressure

EN 1092-1 - PN 40	[Pressure range bar chart]																											
EN 1092-1 - PN 25	[Pressure range bar chart]																											
EN 1092-1 - PN 16	[Pressure range bar chart]																											
EN 1092-1 - PN 10	[Pressure range bar chart]																											
EN 1092-1 - PN 6	[Pressure range bar chart]																											
ISO insertion length	[Pressure range bar chart]																											
ASME B16.5 - 150 lbs RF	[Pressure range bar chart]																											
ASME B16.5 - 300 lbs RF	[Pressure range bar chart]																											
ASME B16.5 - 600 lbs RF	[Pressure range bar chart]																											
ASME B16.5 - 900 lbs RF	[Pressure range bar chart]																											
ASME B16.5 - 1500 lbs RF	[Pressure range bar chart]																											
AWWA - class B or D FF	[Pressure range bar chart]																											
JIS 10 K	[Pressure range bar chart]																											
JIS 20 K	[Pressure range bar chart]																											
	Larger than DN 2000 / ASME 80" on request																											
	AWWA flanges, DN 700 - 1000 / ASME 28" - 40" ≤ 10 bar																											
	AWWA flanges, DN 1200 - 2000 / ASME 48" - 80" ≤ 6 bar																											

Nominal diameter	VN14										VN15								VN16							
ASME [inch]	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Liner

Polypropylene	[Material availability grid]																											
Hardrubber	[Material availability grid]																											
	See pressure and temperature limits for various liners																											

Electrodes

Hastelloy C4	[Material availability grid]																											
Stainless steel 1,4571 (AISI 316 Ti)	[Material availability grid]																											
Titanium	[Material availability grid]																											

Grounding rings

Hastelloy C4	[Material availability grid]																											
Stainless steel 1,4571 (AISI 316 Ti)	[Material availability grid]																											
Titanium	[Material availability grid]																											

Flanges

Steel 1.0460 (C 22,8)	[Material availability grid]																											
Steel 1.0038 (RSt37-2)	[Material availability grid]																											
Stainless steel 1.4404 (AISI 316 L)	[Material availability grid]																											
Stainless steel 1.4571 (AISI 316 Ti)	[Material availability grid]																											

Materials

Measuring tube - austenitic stainless steel	[Material availability grid]																											
Housing (polyurethane coated) sheet steel	[Material availability grid]																											
Housing stainless steel	[Material availability grid]																											
Die-cast aluminium connection box (polyurethane coated)	[Material availability grid]																											
Stainless steel connection box	[Material availability grid]																											
	Other materials on request																											

Nominal diameter	VN14								VN15								VN16									
ASME [inch]	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Protection category

IP 66 / 67 eq. NEMA 4/4X / 6	■																									
IP 68 field eq. NEMA 6P	■																									
IP 68 factory eq. NEMA 6P	■																									

Approvals

Non-Ex	■																									
EEx zone 1 / 2	■																									
FM - class I div. 2	■																									
CSA - GP	■																									
CSA - class I div. 2	■																									
SAA - Aus Ex zone 2	■																									
TIIS - zone 2	■																									
Please note the approvals are for flow sensors only.																										

Versions

Compact + IFC 300 C	■																									
Separate + IFC 300 F, R, W	■																									
Compact + IFC 010 C	■																									
Separate + IFC 010 W	■																									

Electrical conductivity

Min. conductivity	min. 20 µS/cm																									
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■ standard ■ optional □ on request

Measuring accuracy

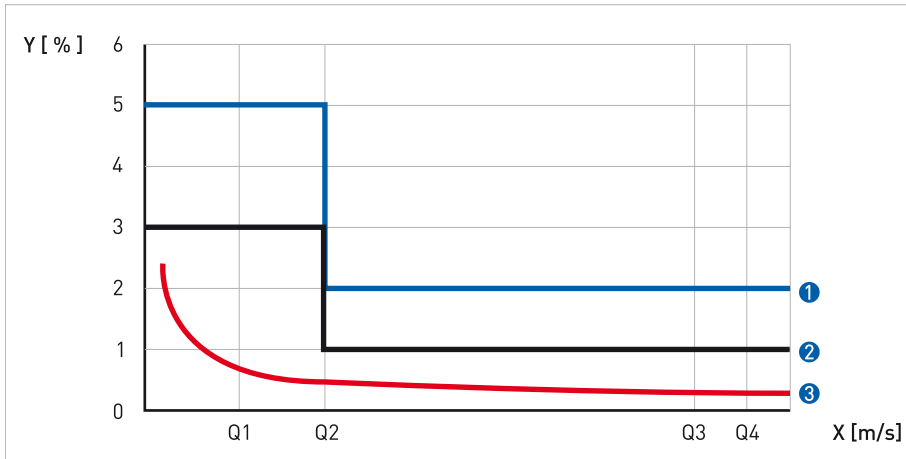


Figure 4-1: X (Flow velocity [m/s]); Y (Inaccuracy [%])

- ① Demands according to EN 14154 OIML R-49 class 2
- ② Demands according to EN 14154 OIML R-49 class 1
- ③ OPTIFLUX 2000

Temperature range

	Process [°C]		Ambient [°C]	
	min.	max.	min.	max.

Hardrubber

Separate flow sensor (OPTIFLUX 2000 F)	-5	80	-40	65
Compact with IFC 300 (OPTIFLUX 2300 C)	-5	80	-40	65
Compact with IFC 010 (OPTIFLUX 2010 C)	-5	80	-25	60

Polypropylene

Separate flow sensor (OPTIFLUX 2000 F)	-5	90	-40	65
Compact with IFC 300 (OPTIFLUX 2300 C)	-5	90	-40	65
Compact with IFC 010 (OPTIFLUX 2010 C)	-5	90	-25	60
* Polypropylene available for DN 25 - 150				

	Process [°F]		Ambient [°F]	
	min.	max.	min.	max.

Hardrubber

Separate flow sensor (OPTIFLUX 2000 F)	23	176	-40	149
Compact with IFC 300 (OPTIFLUX 2300 C)	23	176	-40	149
Compact with IFC 010 (OPTIFLUX 2010 C)	23	176	-13	140

Polypropylene

Separate flow sensor (OPTIFLUX 2000 F)	23	194	-40	149
Compact with IFC 300 (OPTIFLUX 2300 C)	23	194	-40	149
Compact with IFC 010 (OPTIFLUX 2010 C)	23	194	-13	140
* Polypropylene available for ASME 1" - 6"				

Metrological performance

DN	Q1	Q2	Q3	R	Q4
	(Q3 / R)	(Q1 * 1,6)		(Q3 / Q1)	(Q3 * 1,25)
[mm]	[m3/hr]	[m3/hr]	[m3/hr]		[m3/hr]
25	0,04	0,064	16	400	20
32...40	0,063	0,1	25	400	31,3
50	0,1	0,16	40	400	50
65	0,16	0,25	100	630	125
80	0,25	0,41	160	630	200
100	0,4	0,63	250	630	313
125...150	0,63	1,02	400	630	500
200	1	1,6	1000	1000	1250
250	1,6	2,56	1600	1000	2000
300	2,5	4	2500	1000	3125
350	5	8	2500	500	3125
400...450	8	12,8	4000	500	5000
500...600	12,6	20,2	6300	500	7875
650...750	20	32	10000	500	12500
800...950	32	51,2	16000	500	20000
1000...1200	50	80	25000	500	31250
1300...1500	80	128	40000	500	50000
1600...1700	100	160	40000	400	50000
1800...2100	160	256	40000	250	50000
2200...2500	250	400	40000	160	50000
2600...3000	400	640	40000	100	50000

Vacuum load

Liner	Diameter	Minimum operating pressure absolute in mbar (abs) at process temperature			
	[mm]	20°C	40°C	60°C	80°C
Polypropylene	DN25...150	250	250	400	400
Hardrubber	DN200...300	250	250	400	400
	DN350...1000	500	500	600	600
	DN1200...3000	600	600	750	750

Liner	Diameter	Minimum operating pressure absolute in psia at process temperature			
	[inch]	68°F	104°F	140°F	176°F
Polypropylene	1...6"	3.6	3.6	5.8	5.8
Hardrubber	8...12"	3.6	3.6	5.8	5.8
	14...40"	7.3	7.3	8.7	8.7
	48...120"	8.7	8.7	10.9	10.9

Dimensions and Weights

Nominal size		Dimensions [mm]							Approx. weight
DN	PN	L		H	W	T			[kg]
[mm]	[bar]	DIN	ISO			box	010	300	

DN25...150

25	40	150	200	140	115	218	245	297	5
32	40	150	200	157	140	235	262	314	6
40	40	150	200	166	150	244	271	323	7
50	40	200	200	186	165	264	291	343	11
65	16	200	200	200	185	278	305	357	9
80	40	200	200	209	200	287	314	366	14
100	16	250	250	237	220	315	342	394	15
125	16	250	250	266	250	344	371	423	19
150	16	300	300	300	285	378	405	457	27

DN200...600

200	10	350	350	361	340	439	466	518	34
250	10	400	450	408	395	486	513	565	48
300	10	500	500	458	445	536	563	615	58
350	10	500	550	510	505	588	615	667	78
400	10	600	600	568	565	646	673	725	101
450	10	600	-	618	615	696	723	775	111
500	10	600	-	671	670	749	776	828	130
600	10	600	-	781	780	859	886	938	165

DN700...2000

700	10	700	-	898	895	976	1003	1055	248
800	10	800	-	1012	1015	1090	1117	1169	331
900	10	900	-	1114	1115	1192	1219	1271	430
1000	10	1000	-	1225	1230	1303	1330	1382	507
1200	6	1200	-	1417	1405	1495	-	1574	555
1400	6	1400	-	1619	1630	1697	-	1776	765
1600	6	1600	-	1819	1830	1897	-	1976	1035
1800	6	1800	-	2027	2045	2105	-	2184	1470
2000	6	2000	-	2259	2265	2337	-	2416	1860

Nominal size		Dimensions 150lbs [inch]						Approx. weight
ASME	PN	L	H	W	T			
[inch]	[psi]				box	010	300	[lbs]

DN1"…6"

1"	284	5,91	5,39	4,25	8,46	9,53	11,57	18
1 1/2"	284	5,91	6,1	5	9,17	10,24	12,28	22
2"	284	7,87	7,05	5,98	10,12	11,18	13,23	29
3"	284	7,87	8,03	7,5	11,1	12,17	14,21	37
4"	284	9,84	9,49	9	12,56	13,62	15,67	51
5"	284	9,84	10,55	10	13,62	14,69	16,73	60
6"	284	11,81	11,69	11	14,76	15,83	17,87	75

DN8"…24"

8"	284	13,78	14,25	13,5	17,32	18,39	20,43	95
10"	284	15,75	16,3	16	19,37	20,43	22,48	143
12"	284	19,69	18,78	19	21,85	22,91	24,96	207
14"	284	27,56	20,67	21	23,74	24,8	26,85	284
16"	284	31,5	22,95	23,5	26,02	27,09	29,13	364
18"	284	31,5	24,72	25	27,8	28,86	30,91	410
20"	284	31,5	26,97	27,5	30,04	31,1	33,15	492
24"	284	31,5	31,38	32	34,45	35,51	37,56	675

Pressures are applicable at 20 °C (68 °F).

For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")

Nominal size		Dimensions 150lbs [mm]						Approx. weight
ASME	PN	L	H	W	T			
[inch]	[psi]				box	010	300	[kg]

DN1"...6"

1"	284	150	137	108	215	242	294	8
1 1/2"	284	150	155	127	233	260	312	10
2"	284	200	179	152	257	284	336	13
3"	284	200	204	190,5	282	309	361	17
4"	284	250	241	228,6	319	346	398	23
5"	284	250	268	254	346	373	425	27
6"	284	300	297	279,4	375	402	454	34

DN8"...24"

8"	284	350	362	342,9	440	467	519	43
10"	284	400	414	406,4	492	519	571	65
12"	284	500	477	482,6	555	582	634	94
14"	284	700	525	533,4	603	630	682	129
16"	284	800	583	596,9	661	688	740	165
18"	284	800	628	635	706	733	785	186
20"	284	800	685	698,5	763	790	842	223
24"	284	800	797	812,8	875	902	954	306

Pressures are applicable at 20 °C (68 °F).

For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")

Nominal size		Dimensions 300lbs [inch]						Approx. Weight
ASME	PN	L	H	W	T			
[inch]	[psi]				box	010	300	[lbs]

DN1"...6"

1"	741	5,91	5,71	4,87	8,78	9,84	11,89	18
1 1/2"	741	7,87	6,65	6,13	9,72	10,79	12,83	20
2"	741	9,84	7,32	6,5	10,39	11,46	13,5	29
3"	741	9,84	8,43	8,25	11,5	12,56	14,61	37
4"	741	11,81	10	10	13,07	14,13	16,18	51
6"	741	12,6	12,44	12,5	15,51	16,57	18,62	79

DN8"...24"

8"	741	15,75	15,04	15	18,11	19,17	21,22	157
10"	741	19,69	17,05	17,5	20,12	21,18	23,23	247
12"	741	23,62	20	20,5	23,07	24,13	26,18	375
14"	741	27,56	21,65	23	24,72	25,79	27,83	474
16"	741	31,5	23,98	25,5	27,05	28,11	30,16	639
20"	741	31,5	28,46	30,5	31,54	32,6	34,65	937
24"	741	31,5	33,39	36	36,46	37,52	39,57	1345

Pressures are applicable at 20 °C (68 °F).

For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")

Nominal size		Dimensions 300lbs [mm]						Approx. weight
ASME	PN	L	H	W	T			
[inch]	[psi]				box	010	300	[kg]

DN1"…6"

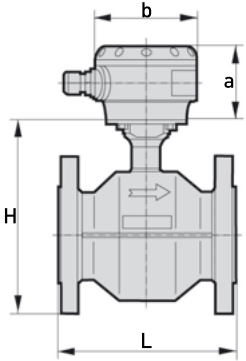
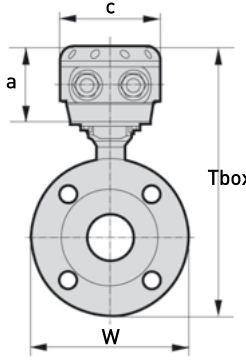
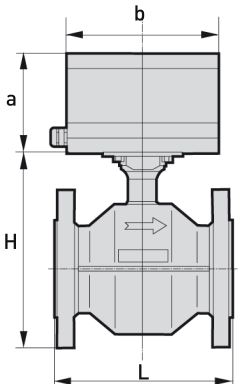
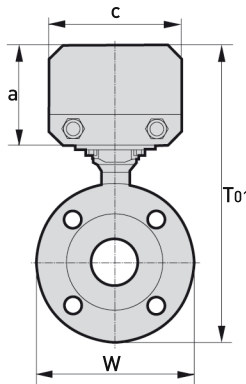
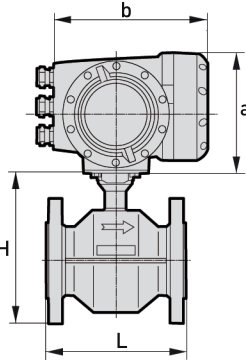
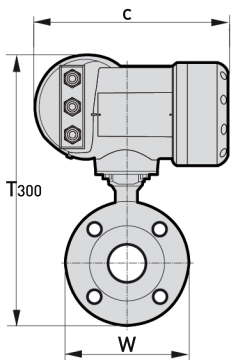
1"	741	150	145	123,8	223	250	302	8
1 1/2"	741	200	169	155,6	247	274	326	9
2"	741	250	186	165,1	264	291	343	13
3"	741	250	214	209,6	292	319	371	17
4"	741	300	254	254	332	359	411	23
6"	741	320	316	317,5	394	421	473	36

DN8"…24"

8"	741	400	382	381	460	487	539	71
10"	741	500	433	444,5	511	538	590	112
12"	741	600	508	520,7	586	613	665	170
14"	741	700	550	584,2	628	655	707	215
16"	741	800	609	647,7	687	714	766	290
20"	741	800	723	774,7	801	828	880	425
24"	741	800	848	914,4	926	953	1005	610

Pressures are applicable at 20 °C (68 °F).

For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")

<p>Frontview OPTIFLUX 2000 F</p>  <p>Technical drawing showing the front view of the OPTIFLUX 2000 F valve. It features a horizontal flow direction indicated by an arrow. Dimensions are labeled: 'a' for the actuator height, 'b' for the actuator width, 'H' for the total valve height, and 'L' for the valve body length.</p>	<p>Sideview OPTIFLUX 2000 F</p>  <p>Technical drawing showing the side view of the OPTIFLUX 2000 F valve. Dimensions are labeled: 'a' for the actuator height, 'c' for the actuator width, 'Tbox' for the total height from the flange to the top of the actuator, and 'W' for the flange diameter.</p>
<p>a = 77 mm / 3,1" b = 111 mm / 4,4"</p>	<p>a = 77 mm / 3,1" c = 106 mm / 4,2"</p>
<p>Frontview OPTIFLUX 2010 C</p>  <p>Technical drawing showing the front view of the OPTIFLUX 2010 C valve. It features a horizontal flow direction indicated by an arrow. Dimensions are labeled: 'a' for the actuator height, 'b' for the actuator width, 'H' for the total valve height, and 'L' for the valve body length.</p>	<p>Sideview OPTIFLUX 2010 C</p>  <p>Technical drawing showing the side view of the OPTIFLUX 2010 C valve. Dimensions are labeled: 'a' for the actuator height, 'c' for the actuator width, 'T010' for the total height from the flange to the top of the actuator, and 'W' for the flange diameter.</p>
<p>a = 105 mm / 4,2" b = 160 mm / 6,3"</p>	<p>a = 105 mm / 4,2" c = 140mm / 5,5"</p>
<p>Frontview OPTIFLUX 2300 C</p>  <p>Technical drawing showing the front view of the OPTIFLUX 2300 C valve. It features a horizontal flow direction indicated by an arrow. Dimensions are labeled: 'a' for the actuator height, 'b' for the actuator width, 'H' for the total valve height, and 'L' for the valve body length.</p>	<p>Sideview OPTIFLUX 2300 C</p>  <p>Technical drawing showing the side view of the OPTIFLUX 2300 C valve. Dimensions are labeled: 'c' for the actuator width, 'T300' for the total height from the flange to the top of the actuator, and 'W' for the flange diameter.</p>
<p>a = 155 mm / 6,1" b = 202 mm / 7,8"</p>	<p>c = 260 mm / 10,2"</p>





KROHNE Product Overview

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Addresses:

Germany

Northern sales office

KROHNE Messtechnik GmbH & Co. KG
Bremer Str. 133
D-21073 Hamburg
Phone:+49 [0]40 767 3340
Fax:+49 [0]40 767 33412
nord@krohne.de
ZIP code: 10000 - 29999, 49000 - 49999

Western and middle sales office

KROHNE Messtechnik GmbH & Co. KG
Ludwig-Krohne-Straße
D-47058 Duisburg
Phone:+49 [0]203 301 416
Fax:+49 [0]203 301 10416
west@krohne.de
ZIP code: 30000 - 34999, 37000 -
48000, 50000 - 53999, 57000 - 59999,
98000 - 99999

Southern sales office

KROHNE Messtechnik GmbH & Co. KG
Landsberger Str. 392
D-81241 Munich
Phone:+49 [0]89 121 5620
Fax:+49 [0]89 129 6190
sued@krohne.de
ZIP code: 0 - 9999, 80000 - 89999,
90000 - 97999

Southwestern sales office

KROHNE Messtechnik GmbH & Co. KG
Rüdesheimer Str. 40
D-65239 Hochheim/Main
Phone:+49 [0]6146 827 30
Fax:+49 [0]6146 827 312
rhein-main@krohne.de
ZIP code: 35000 - 36999, 54000 -
56999, 60000 - 79999

Instrumentation and control equipment catalog

TABLAR Messtechnik GmbH
Ludwig-Krohne-Straße 5
D-47058 Duisburg
Phone:+49 [0]2 03 305 880
Fax:+49 [0]2 03 305 888
kontakt@tablar.de www.tablar.de

KROHNE sales companies

International

Australia

KROHNE Australia Pty Ltd
Quantum Business Park 10/287
Victoria Rd Rydalmere NSW 2116
Phone: +61 2 8846 1700
Fax: +61 2 8846 1755
krohne@krohne.com.au

Austria

KROHNE Gesellschaft m.b.H.
Modecenterstraße 14
A-1030 Vienna
Phone:+43 [0]1/203 45 32
Fax:+43 [0]1/203 45 32 99
info@krohne.at

Belgium

KROHNE Belgium N.V.
Brusselstraat 20
B-1702 Groot Bijgaarden
Phone:+32 [0]2 4 66 00 10
Fax:+32 [0]2 4 66 08 00
krohne@krohne.be

Brazil

KROHNE Conaut Controles
Automaticos Ltda.
Estrada Das Águas Espraiadas, 230
C.P. 56 06835 - 080 EMBU - SP
Phone:+55 [0]11-4785-2700
Fax:+55 [0]11 4785-2768
conaut@conaut.com.br

China

KROHNE Measurement Instruments
(Shanghai) Co. Ltd., (KMIC)
Room 1501
1033 Zhaojabang Road
Shanghai 200030
Phone: +86 21 6487 9611
Fax: +86 21 6438 7110
info@krohne-asia.com

Czech Republic

Krohne CZ, spol. s r.o.
Soběsická 156
63800 Brno
Phone: +420 [0]545.242 627
Fax: +420 [0]545 220 093
brno@krohne.cz

France

KROHNE S.A.S.
Les Ors BP 98
F-26103 ROMANS Cedex
Phone:+33 [0]4 75 05 44 00
Fax:+33 [0]4 75 05 00 48
info@krohne.fr

Great Britain

KROHNE Ltd.
Rutherford Drive
Park Farm Industrial Estate
Wellingborough
Northants NN8 6AE
Phone:+44 [0]19 33 408 500
Fax:+44 [0]19 33 408 501
info@krohne.co.uk

CIS

Kanex KROHNE Engineering AG
Business-Centre Planeta
Office 404 ul.
Marxistskaja 3
109147 Moscow/Russia
Phone:+7 [0]095 911 7165
Fax:+7 [0]095 742 8873
krohne@dol.ru

India

Krohne Marshall Ltd.
A-34/35, M.I.D.C. Industrial Area,
H-Block
Pimpri Poona 411018
Phone:+91 [0]202 744 2020
Fax:+91 [0]202 744 2020
pcu@vsnl.net

Iran

KROHNE Liaison Office
North Sohrvardi Ave. 26,
Sarmad St., Apt. #9
Tehran 15539
Phone: +9821 8874 5973
Fax: +9821 8850 1268
krohne@krohneiran.com

Italy

KROHNE Italia Srl.
Via V. Monti 75
I-20145 Milan
Phone:+39 02 4300 661
Fax:+39 02 4300 666
info@krohne.it

Korea

KROHNE Korea
Room 508 Miwon Bldg 43
Yoido-Dong Youngdeungpo-Ku
Seoul, Korea
Phone: 00-82-2-782-1900
Fax: 00-82-2-780-1749
mail@krohne.co.kr

Netherlands

KROHNE Nederland B.V.
Kerkeplaat 14
NL-3313 LC Dordrecht
Phone:+31 [0]78 630 6200
Fax:+31 [0]78 630 6405
Service Direct: +31 [0]78 630 6222
info@krohne.nl

Norway

KROHNE Norway A.S.
Ekholtveien 114
NO-1521 Moss
Phone:+47 [0]69 264 860
Fax:+47 [0]69 267 333
postmaster@krohne.no

Poland

KROHNE Polska Sp.z.o.o.
ul. Stary Rynek Oliwski 8a
80-324 Gdansk
Phone: +48 [0]58 520 9211
Fax:+48 [0]58 520 9212
info@krohne.pl

Switzerland

KROHNE AG
Uferstr. 90
CH-4019 Basel
Phone:+41 [0]61 638 30 30
Fax:+41 [0]61 638 30 40
info@krohne.ch

Singapore

Tokyo Keiso - KROHNE (Singapore)
Pte. Ltd.
14, International Business Park,
Jurong East
Chiyoda Building, #01-01/02
Singapore 609922
Phone: (65) 6567 4548
Fax : (65) 6567 9874
tks@tokyokeiso-krohne.com.sg

Republic of South Africa

KROHNE Pty. Ltd.
Bushbock Close
Corporate Park South
Midrand, Gauteng
P.O. Box 2069
Midrand, 1685
Tel.: +27 [0]11 314 1391
Fax: +27 [0]11 314 1681
midrand@krohne.co.za

Spain

I.I. KROHNE IBERIA, S.r.l.
Poligono Industrial Nilo
Calle Brasil, nº. 5
28806 Alcalá de Henares Madrid
Phone: +34 [0]91 883 2152
Fax: +34 [0]91 883 4854
krohne@krohne.es

USA

KROHNE, Inc.
7 Dearborn Road
Peabody, MA 01960
Phone: +1 [800] FLOWING
Phone: +1 [978] 535 6060 (in MA)
info@krohne.com

Representatives

Algeria
Argentina
Cameroon
Canada
Chile
Columbia
Croatia
Denmark
Ecuador
Egypt
Finland
Gabon
Ghana
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Slovakia
Slovenia
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Other countries

KROHNE Messtechnik GmbH & Co. KG
Ludwig-Krohne-Str. 5
D-47058 Duisburg
Phone:+49 [0]203 301 0
Fax:+49 [0]203 301 389
export@krohne.de