KROHNE

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GR/PRINTO

ALTOFLUX IFS 4000/4005

... result of more than 40 years' experience with electromagnetic flowmeters

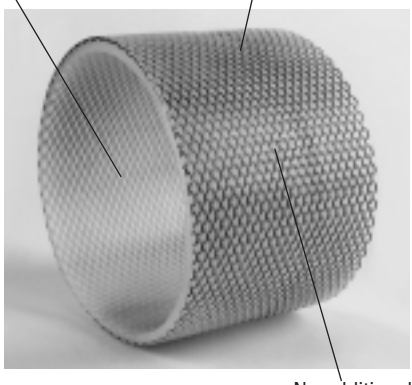
- Liner made of KROHNE Teflon®-PFA or other fluorines
- Dimensionally stable, even in caustic, acrid and hot conditions
- Vacuum-resistant, also at elevated temperatures
- For use in hazardous locations

ALTOFLUX IFS 4000 / 4005

The result of more than 40 years' experience with electromagnetic flowmeters

DN 25-150 and 1"-6" with KROHNE Teflon®-PFA liner

Dimensionally stable through stainless steel mesh reinforcement, also at elevated temperatures



No additional electrode gaskets required

ALTOFLUX IFS 4000 / 4005

flowmeters measure the volumetric flowrate of electrically conductive liquids, acids, alkaline solutions, pastes and slurries, also with very high solids content.

Fields of application

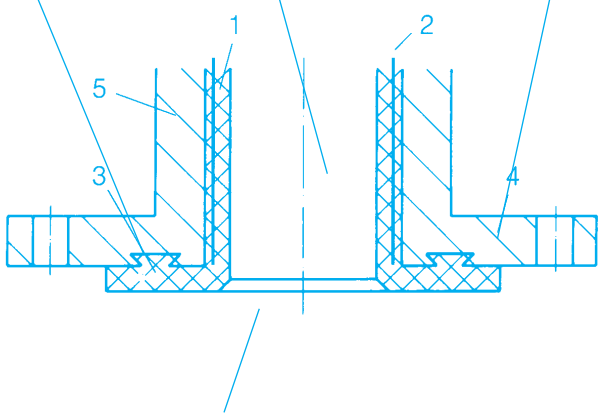
- water and wastewater
- chemical and pharmaceutical
- paper and woodpulp production
- mining, ore extraction and dressing
- measurement of water / sand mixes
- ... with solids contents of up to 50%
- Teflon®-PFA and -PTFE liners ensure extremely high abrasion resistance
- chemically resistant to alkaline solutions and acids:
- no restriction with Teflon®-PFA or -PTFE liners (materials for electrodes and grounding rings to be selected for process compatibility)

Calibrated on **EN 45 001** certified calibration rigs, accuracy of calibration better than 99.97% of the measured value.

With dovetail groove for easy installation

Meter sizes up to DN 3000 and 120"

Fully welded housing, absolutely tight, rugged, resistant to corrosion



Can be operated together with all KROHNE signal converters of integral or remote design

Fitting length also in conformity with ISO 13 359

For use in hazardous locations

Grounding rings

For process flow measurement reasons the product must be grounded. Such as grounding system is lacking in pipes upstream and downstream of the primary head which feature a corrosion-resistant internal coating or liner, or are made entirely of plastics material.
In such cases, grounding rings must be fitted on both sides of the primary head.

Grounding ring No. 1
3 mm/0.10" thick (tantalum: 0.5 mm/0.02" thick)

Protective ring No. 2
3 mm/0.10" thick for Teflon®-PTFE liner.

On primary heads with Teflon®-PTFE liner, protective rings No. 2 prevent damage to the flanges during transportation and installation. These rings can also be used as grounding rings.

Grounding ring No. 3
with cylindrical neck 3 mm/0.10" thick
30 mm/1.25" long for DN 10–300 and $^3/_8$"–12"

100 mm/3.95" long for ≥ DN 350 and ≥ 14"

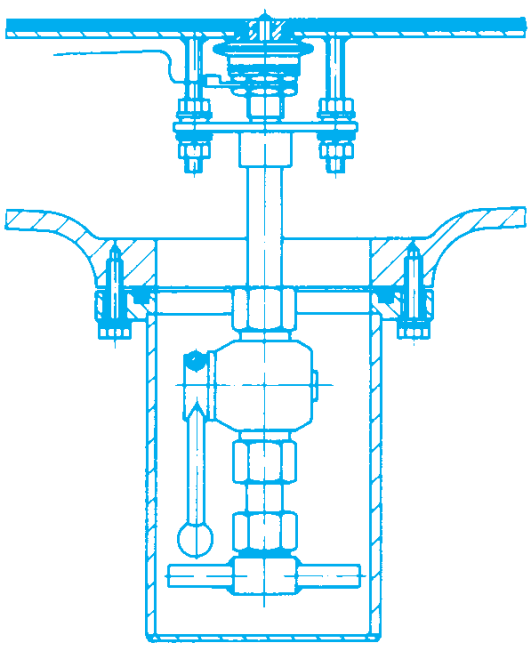
Where abrasive liquids are concerned, grounding rings No. 3 with cylindrical neck should be used for the inlet side of the primary head to prevent damage to the inlet edge.

Field replaceable electrodes WE

for meter sizes ≥ DN 350 and ≥ 14".

If the properties of the process product are not known in the project phase, it is advisable to use replaceable electrodes particularly where larger meter sizes are involved.

The electrodes can be removed at system operating pressure for efficient cleaning of their surface.



Hazardous-duty (Ex) versions

European Standard

IFS 4000 F-EEx primary heads are approved in conformity with European Standard, PTB No. Ex-90.C.2003 X.

IFS 4000 F-EEx primary heads DN 10–300 and $^3/_8$"–12":
EEx eq ib IIC T3–T6

DN 350–3000 and 14"–120": EEx e ib IIC T3–T6

The following certified signal converters with integrated buffer stage are available for the remote primary heads:

IFC 090 F-Ex signal converters in rotatable field housing for use in hazardous areas, EEx d or de [ib] IIC T6.

IFC 110 F-Ex (field housing) **signal converters**
for use outside hazardous areas, EEx d or de [ib] IIC T6.

Additional information on the signal converters is provided in the relevant Data Sheets.

The **IFM 4080 K-EEx** integral flowmeters are approved in conformity with European Standard, PTB No. Ex-95.D.2009. DN 10–300 and $^3/_8$"–12":
EEx dqe or dq ib IIC T6

DN 350–1600 and 14"–64": EEx de ib IIC T6

FM Approvals

The **IFS 4000 F primary** heads are FM approved:

Div 1: EXP-IS / I / 1 / BCD
DIP-IS / II, III / 1 / EFG
J.I. No. 5Y8A1.AX

Div 2: NI / I / 2 / ABCD
S / II / 2 / FG
S / III / 2
J.I. No. 4X7A4.AX

The FM approvals for **IFC 110** and **IFC 090** signal converters are pending.

The **IFM 4080 K** integral flowmeters are FM approved:

Div 2: NI / I / 2 / ABCD
S / II / 2 / FG
S / III / 2
J.I. No. 4X7A4.AX

Technical data

Meter sizes	
Integral systems	DN 10 – 1600 and 3/8" – 64"
IFS 4000 F (remote)	DN 10 – 3000 and 3/8" – 120"
IFS 4005 F (remote)	DN 50 – 3000 and 2" – 120"
Pipe flanges	
to DIN 2501 (= BS 4504)	DN 10 – 50 and DN 80 / PN 40 DN 65 and DN 100 – 150 / PN 16 DN 200 – 1000 / PN 10 DN 1100 – 2000 / PN 6 DN 2200 – 3000 / PN 2.5
to ANSI B 16.5	3/8" – 24" / Class 150 lb / RF
to AWWA	14" – 120" / Class B or D / FF
Electrical conductivity	≥ 5 µS/cm, ≥ 20µS/cm for demineralized cold water

Temperatures	Ambient temperature	Process temperature
Integral systems	– 25 to + 60 °C	– 25 to ≤ + 60 °C
	– 13 to + 140 °F	– 13 to ≤ + 140 °F
	– 25 to + 140 °C	– 25 to ≤ + 140 °C* (Ex max. 150 °C)
	– 13 to + 104 °F	– 13 to ≤ + 284 °F* (Ex max. 302 °F)
IFS 4000 F (remote)	– 25 to + 60 °C	– 25 to ≤ + 180 °C *
	– 13 to + 140 °F	– 13 to ≤ + 356 °F *
IFS 4005 F (remote)		
DN 50 / 2"	– 25 to + 60 °C	– 60 to ≤ + 100 °C *
	– 13 to + 140 °F	– 76 to ≤ + 212 °F *
≥ DN 65 / ≥ 2 1/2"	– 25 to + 60 °C	– 60 to ≤ + 120 °C *
	– 13 to + 140 °F	– 76 to ≤ + 248 °F *

* dependent on liner, flange standard, etc.

Max. allowable operating data	Process temperature, operating pressure and vacuum load for the liner, refer to Page 8 "Limits"
Insulation class of field coils	
Integral systems	
DN 10 – 300 / 3/8" – 6"	H / ≤ 140 °C / ≤ 284 °F process temperature
DN 350 – 1600 / 14" – 64"	E / ≤ 120 °C / ≤ 248 °F process temperature, (option H / ≤ 140 °C / ≤ 284 °F)
IFS 4000 F (remote)	
DN 10 – 300 / 3/8" – 6"	H / ≤ 180 °C / ≤ 356 °F process temperature
DN 350 – 3000 / 14" – 120"	E / ≤ 120 °C / ≤ 248 °F process temperature, (option H / ≤ 180 °C / ≤ 356 °F)
Power supply for field coils	
IFS 4000 F (seperate) and all integral units	max. 60V from signal converter
IFS 4005 F (seperate)	max. 250V from SC150 F signal converter
Electrode design	
DN 10 – 3000 / 3/8" – 120"	flat elliptical electrodes, solidly fitted, surface-polished
Option DN 350 – 3000 / 14" – 120"	field-replaceable electrodes WE

Protection category (EN 60 529 / IEC 529)		
Standard		IP 67, equivalent to NEMA 6 (with field replaceable electrodes WE: IP65, equivalent to NEMA 4/4X)
Option		IP 68, equivalent to NEMA 6
Grounding rings		available as an option
Materials		
Measuring tube		stainless steel 1.4301 (or higher materials number), equivalent to SS 304
Liner		
Standard	DN 10 – 20 / 3/8" – 3/4"	Teflon®-PTFE
	DN 25 – 150 / 1" – 6"	Teflon®-PFA (reinforced with stainless steel mesh)
	DN 200 – 600 / 8" – 24"	Tefzel (gaskets of electrodes: KALREZ, option Viton)
	DN 700 – 2000 / 4" – 80"	FEP
Option	DN 200 – 600 / 8" – 24"	Teflon®-PTFE
	DN 200 – 1200 / 8" – 48"	soft rubber
	DN 200 – 1800 / 8" – 72"	Irathane
	DN 200 – 3000 / 8" – 120"	Neoprene
	≥ DN 200 / ≥ 8"	others on request
Electrodes		
Standard		Hastelloy C4
Option		stainless steel 1.4571 or SS 316 Ti, Hastelloy B2, titanium, tantalum, platinum, platinum-iridium, others on request
Field replaceable WE		stainless steel 1.4571 or SS 316 Ti
Connecting flanges *		
DIN: DN 10 – 50, DN 80 (3/8" – 2", 3")		steel 1.0402 (C 22) or AISI C 1020
DN 65, ≥ DN 100 (≥ 4")		steel 1.0501 (RST 37.2) or AISI C 1035
ANSI		steel ASTM A 105 N
Housing*		
DN 10 – 40 / 3/8"–1 1/2"		GTW-S 30 (malleable cast iron)
≥ DN 50 / ≥ 2"		sheet steel
Terminal box*		
IFS 4000 F (remote)		die-cast aluminium
Grounding rings (option)		stainless steel 1.4571 or SS 316 Ti

* with polyurethane coating

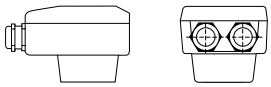
Dimensions and weights

PLEASE NOTE !

The **total dimension for the height** is obtained from **dimension b** (see table) **plus the height** of the terminal box or the signal converter, see drawings.

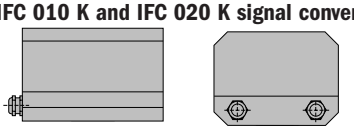
The **total weight** is made up of the weight of the signal converter (see table) **plus** the weight of the terminal box or signal converter, see below.

Terminal box



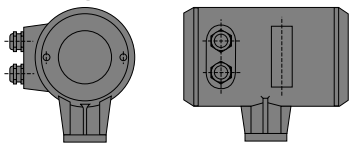
Weight approx. 0.5 kg (1.1 lb)

IFC 010 K and IFC 020 K signal converter



Weight approx. 1.6 kg (3.6 lb)

IFC 090 K signal converter



Weight approx. 2.3 kg (5.1 lb)

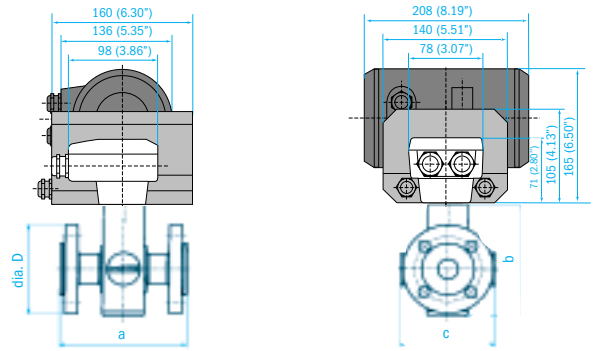
Flange connections to ...			**Dimensions** in mm (inches)
DIN 2501	DN 10- 300	PN 40, 16, 10	see table
(= BS 4504)	DN 350-1000	PN 10	see table
	DN 350-1000	PN 25	see table, dimension "$a_{standard}$" + 200 mm
	≥ DN 1200	PN 6, 2.5	information supplied on request
ANSI B 16.5	3/8"-24"	150 lb / RF	see table
		≥ 300 lb / RF	dimensions supplied on request
AWWA	≥ 14"	Class B, D / FF	dimensions supplied on request

- Dimension "a" without flange gaskets: not included with flowmeter, to be provided by customer.
- rathane liner ≥ DN 350 / ≥ 14"; thickness > 12 mm: nominal size of flanges greater than nominal size of measuring tube, see table
- Meter size 3/8": flange connection 1/2"

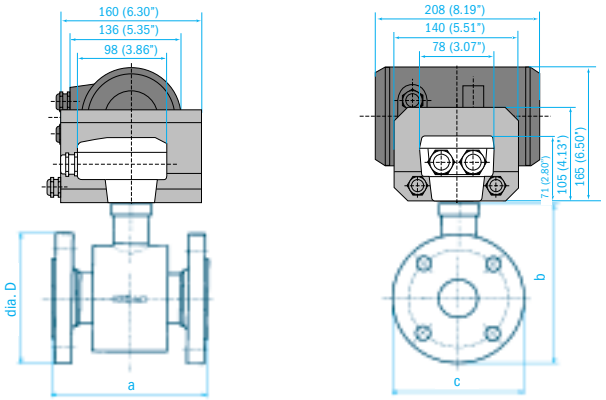
Nominal size			**Dimensions** in mm (inches)												**Approx. weight in kg (lb)**			
DIN		ANSI	**a** (fitting length)						**bmax**		**c**		**dia. D**				with DIN		with ANSI	
DN	PN (psig)	inches	Standard		ISO 13 359		ANSI						DIN, ISO		ANSI		flanges		flanges	
10	40 (580)	3/8	150	(5.91)	–		150	(5.91)	165	(6.50)	121	(4.76)	90	(3.54)	88.9	(3.50)	5	(11.0)	6	(13.2)
15	40 (580)	1/2	150	(5.91)	200	(7.87)	150	(5.91)	165	(6.50)	121	(4.76)	95	(3.74)	88.9	(3.50)	5	(11.0)	6	(13.2)
20	40 (580)	3/4	150	(5.91)	200	(7.87)	150	(5.91)	165	(6.50)	121	(4.76)	105	(4.13)	98.6	(3.88)	7	(15.4)	8	(17.6)
25	40 (580)	1	150	(5.91)	200	(7.87)	150	(5.91)	165	(6.50)	121	(4.76)	115	(4.53)	108	(4.25)	7	(15.4)	8	(17.6)
32	40 (580)	–	150	(5.91)	200	(7.87)	–		180	(7.09)	139	(5.47)	140	(5.51)	–		8	(17.6)	–	
40	40 (580)	1 1/2	150	(5.91)	200	(7.87)	150	(5.91)	180	(7.09)	139	(5.47)	150	(5.91)	127	(5.00)	8	(17.6)	9	(19.8)
50	40 (580)	2	200	(7.87)	200	(7.87)	200	(7.87)	218	(8.58)	160	(6.30)	165	(6.50)	152	(6.00)	8	(17.6)	8	(17.6)
65	16 (232)	–	200	(7.87)	200	(7.87)	–		228	(8.98)	173	(6.81)	185	(7.28)	–		10	(22)	–	
80	40 (580)	3	200	(7.87)	200	(7.87)	200	(7.87)	235	(9.25)	173	(6.81)	200	(7.87)	191	(7.50)	12	(27)	13	(29)
100	16 (232)	4	250	(9.84)	250	(9.84)	250	(9.84)	286	(11.26)	233	(9.17)	220	(8.66)	228	(8.98)	15	(33)	18	(40)*
125	16 (232)	–	250	(9.84)	250	(9.84)	–		297	(11.69)	233	(9.17)	250	(9.84)	–		19	(42)	–	
150	16 (232)	6	300	(11.81)	300	(11.81)	300	(11.81)	327	(12.87)	257	(10.12)	285	(11.22)	279	(10.98)	22	(49)	26	(58) *
200	10 (145)	8	350	(13.78)	350	(13.78)	350	(13.78)	385	(15.16)	291	(11.46)	340	(13.39)	343	(13.50)	34	(75)	42	(95) *
250	10 (145)	10	400	(15.75)	450	(17.72)	400	(15.75)	437	(17.20)	331	(13.03)	395	(15.55)	406	(16.00)	48	(107)	64	(140) *
300	10 (145)	12	500	(19.69)	500	(19.69)	500	(19.69)	500	(19.69)	381	(15.00)	445	(17.52)	533	(21.00)	58	(128)	94	(210) *
350	10 (145)	14	500	(19.69)	550	(21.65)	700	(27.56)	548	(21.57)	428	(16.85)	505	(19.88)	597	(23.50)	78	(172)	129	(285) *
400	10 (145)	16	600	(23.62)	600	(23.62)	800	(31.50)	606	(23.86)	483	(19.02)	565	(22.24)	635	(25.00)	98	(217)	165	(365) *
500	10 (145)	20	600	(23.62)	–		800	(31.50)	651	(25.63)	533	(20.98)	670	(26.38)	699	(27.50)	128	(283)	223	(492) *
600	10 (145)	24	600	(23.62)	–		800	(31.50)	820	(32.28)	585	(23.03)	780	(30.71)	813	(32.00)	164	(362)	306	(675) *
700	10 (145)	28	700	(27.56)	–		flanges to AWWA: dimensions on request		937	(36.89)	694	(27.32)	895	(35.24)	flanges to AWWA: dimensions on request		245	(540)	flanges to AWWA: weight on request	
800	10 (145)	32	800	(31.50)	–				1058	(41.65)	922	(36.30)	1015	(39.96)			328	(724)		
900	10 (145)	36	900	(35.43)	–				1164	(45.83)	1026	(40.39)	1115	(43.90)			425	(1000)		
1000	10 (145)	40	1000	(39.37)	–				1278	(50.31)	1132	(44.57)	1230	(48.43)			507	(1118)		

* max. pressure rating acc. DIN flanges, see column "PN (psig)"

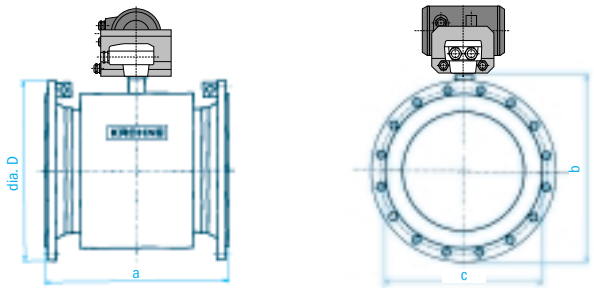
DN 10 – 40 / ⅜" – 1½"



DN 50 – 300 / 2" – 12"



DN 350 – 1000 / 14" – 24"



Dimensions ≥ DN 1200 / ≥ 28" on request

Tolerance details for fitting length dimensions "a"

Standard

≤ DN 300 / ≤ 12" : ±0.5%,
min. ± 1mm / ± 0.04"
≥ DN 350 / ≥ 14" : ±0.5%

to ISO DIS 13 359

≤ DN 200 / ≤ 8" : +0/-3
≥ DN 250 / ≥ 10" : +0/-5

Flange size for Irathane liners, thickness > 12 mm / > 0.50"

Nominal diameter of measuring tube
Flange size

DN in mm		in inches	
DN 350	DN 400	14	16
DN 400, 500	DN 500	14, 16	20
DN 500, 550	DN 600	20, 22	24
DN 600, 650	DN 700	24, 26	28
DN 700, 750	DN 800	28, 30	32
DN 800, 850	DN 900	32, 34	36
DN 900, 950	DN 1000	36, 38	40
DN 1000	DN 1200	40	48

Limits

PLEASE NOTE!

- The limits specified in the table for process temperature and operating pressure make allowance for the tube liner and the flange standard. Refer also to footnotes 1) to 4).
- Refer to certificates of conformity for max. allowable operating data for hazardous-duty versions, provided only with hazardous-duty equipment.

- **Abbreviations used:**
  DIN = DIN 2501 (= BS 4504)
  ANSI = ANSI B 16.5
  AWWA = AWWA
  API = API 6 BX

Limits for Teflon®-PFA, Teflon®-PTFE and Tefzel

Liner	Flange			Max. operating pressure in bar (psig) at a process temperature of																	
	Standard	Nominal diameter	Pressure rating/ Class	≤ 40 °C (≤ 105 °F)		≤ 60 °C (≤ 140 °F)		≤ 70 °C (≤ 158 °F)		≤ 90 °C (≤ 195 °F)		≤ 100 °C (≤ 210 °F)		≤ 120 °C (≤ 250 °F) 1)		≤ 140 °C (≤ 285 °F) 1) 2) 3)		≤ 180 °C (≤ 355 °F) 1) 2) 3)	
PFA	DIN	DN 25-50, DN 80	PN 40	40.0	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)
		DN 65, DN 100-150	PN 16	16	(232)	16	(232)	16	(232)	16	(232)	16	(232)	16	(232)	16	(232)	16	(232)
	ANSI B16.5	1", 1½", 2", 3", 4", 6",	150 lb	19.6	(284)	19.0	(275)	18.7	(271)	18.1	(262)	17.7	(256)	17.0	(246)	16.2	(235)	14.7	(213)
			300 lb	on request															
PTFE	DIN	DN 10-20	PN 40	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)	40	(580)
		DN 200-500	PN 10	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	10	(150)
		DN 600	PN 10	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	9.7	(140)	9.3	(134)
	ANSI B16.5	⅜"-¾", 1¼", 2½", 5"	150 lb	19.6	(284)	19.0	(275)	18.7	(271)	18.1	(262)	17.7	(256)	17.0	(246)	16.2	(235)	14.7	(213)
			300 lb	on request															
PTFE, Tefzel	ANSI B16.5	8"	150 lb	19.6	(284)	19.0	(275)	18.7	(271)	18.0	(261)	17.7	(256)	16.9	(246)	16.2	(235)	14.7	(213)
			300 lb	32.1	(465)	32.1	(465)	31.7	(459)	30.4	(440)	29.7	(430)	28.5	(413)	26.7	(387)	25.5	(369)
		10"	150 lb	19.6	(284)	19.0	(275)	18.7	(271)	18.0	(261)	17.7	(256)	16.9	(246)	16.2	(235)	14.7	(213)
			300 lb	23.6	(342)	23.4	(339)	22.9	(332)	22.0	(319)	21.6	(313)	20.7	(300)	20.0	(290)	18.6	(269)
		12"	150-300 lb	19.6	(284)	19.0	(275)	18.7	(271)	18.0	(261)	17.7	(256)	16.9	(246)	16.2	(235)	14.7	(213)
		14"	150-300 lb	17.8	(258)	17.6	(255)	17.3	(250)	16.6	(240)	16.3	(236)	15.6	(226)	15.6	(219)	14.0	(203)
		16"	150-300 lb	15.6	(226)	15.4	(223)	15.1	(219)	14.5	(210)	14.2	(205)	13.7	(198)	13.2	(191)	12.2	(177)
		18"	150-300 lb	13.8	(200)	13.7	(198)	13.4	(194)	12.9	(187)	12.6	(182)	12.1	(175)	11.7	(169)	10.8	(156)
		20"	150-300 lb	12.4	(179)	12.3	(178)	12.0	(174)	11.6	(168)	11.3	(163)	10.9	(158)	10.5	(152)	9.7	(140)
		22"	150-300 lb	11.2	(162)	11.2	(162)	10.9	(158)	10.5	(152)	10.3	(149)	10.0	(145)	9.5	(137)	8.8	(127)
		24"	150-300 lb	14.2	(205)	14.1	(204)	13.8	(200)	13.3	(192)	13.0	(188)	12.5	(181)	12.0	(174)	11.2	(162)
Tefzel		DN 200-600	PN 10 **4)**	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	10	(145)	–		–	

1) with insulation class E of the field coils, the maximum process temperature allowable is 120 °C (250 °F).
2) Max. process temperature 140 °C (285 °F) for the integral flowmeters.
Ambient temperature max. 40 °C (105 °F).
3) Max. process temperature 120 °C (248 °F) for the flowmeters with Tefzel liner.
4) Higher pressure rating on request. KROHNE is able to supply electromagnetic flowmeters up to 1500 bar (20 000 psig) and more.

Limits for FEP, soft rubber, Irathane and Neoprene

Flange			Max. operating pressure in bar (psig) at a process temperature of									
Standard	Meter size/ Nom. dia.	Pressure/ rating/Class	Soft rubber ≤ 40 °C	(≤ 105 °F)	Neoprene ≤ 60 °C	(≤ 140 °F)	Irathane ≤ 70 °C	(≤ 158 °F)	FEP ≤ 100 °C	(≤ 210 °F)
DIN	DN 200-1000	PN 10	10	(150)	10	(150)	10	(150)		
		PN 16-1500	16-64	(150-920) **5)**	16-100	(150-1450) **5)**	16-1500	(150-20000) **5)**		
	≥ DN 1100	PN 2.5-6	2.5-6	(37-90) **5)**	2.5-6	(37-90) **5)**	2.5-6	(37-90) **5)**		
ANSI	8"-40"	150 lb	≤ 19.6	(≤ 284) **6)**	≤ 19.0	(≤ 275) **6)**	≤ 18.7	(≤ 271) **6)**		
		300 lb	≤ 50.8	(≤ 737) **6)**	≤ 49.2	(≤ 714) **6)**	≤ 48.4	(≤ 702) **6)**	on request	
		600 lb	≤ 64.0	(≤ 920)	≤ 100.0	(≤ 1450)	≤ 100.0	(≤ 1450)		
AWWA	≥ 14"	B	6	(90)	6	(90)	6	(90)		
		D	10	(150)	10	(150)	10	(150)		
API	≥ 8"	20000 psig	–		–		≤ 1500	(≤ 20000)		

5) dependent on flange pressure rating
6) dependent on process temperature

Vacuum load

Liner	Meter size / Nom. dia.		Max. operating pressure in mbar abs. (psia) at a process temperature of													
	DN mm	inches	≤ 40 °C (≤ 105 °F)		≤ 60 °C (≤ 140 °F)		≤ 70 °C (≤ 158 °F)		≤ 90 °C (≤ 195 °F)		≤ 100 °C (≤ 210 °F)		≤ 120 °C (≤ 250 °F)		≤ 140 °C (≤ 285 °F)		≤ 180 °C (≤ 355 °F)	
PFA	DN 25 - 150	1" - 6"	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
PTFE	DN 10 - 20	⅜" - ¾"	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	500	(7.3)	750	(9.7)	1000	(15.0)
	DN 200 - 300	8" - 12"	500	(7.3)	750	(9.7)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)
	DN 350 - 600	14" - 24"	800	(11.2)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)	1000	(15.0)
Tefzel	DN 200 - 600	8" - 12"	100	(1.5)	100	(1.5)	100	(1.5)	100	(1.5)	100	(1.5)	100	(1.5)	–		–	
Soft rubber	DN 200 - 300	8" - 12"	500	(7.3)	–		–		–		–		–		–		–	
	DN 350 - 1200	14" - 48"	600	(8.7)	–		–		–		–		–		–		–	
Irathane	DN 200 - 1800	8" - 72"	500	(7.3)	–		–		–		–		–		–		–	
Neoprene	DN 200 - 300	8" - 12"	400	(5.6)	400	(5.6)	–		–		–		–		–		–	
	DN 350 - 3000	14" - 120"	600	(8.7)	600	(8.7)	–		–		–		–		–		–	
FEP	DN 200 - 2000	8" - 80"	on request													

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