



PEM-1000 SZÉRIA - ÁRAMLÁSMÉRŐ

Elektromágneses (Magflow)

PEM1000RDN150

NW, 4–20 mA, DN150, PN40, 316TI/HR

- 0,085..28,274,3 m³/h
- 3/8" - 40" csatlakozási méret
- 1,6 MPa
- Savak, alkális, festékek, ragasztók, víz stb.
- 4-20mA vagy Impulzus/frekvencia



TERMÉKLEÍRÁS

Az Aplis PEM-1000 elektromágneses áramlásmérő egy rendkívül robusztus, nagy pontosságú áramlásmérő.

A minimális vezetőképesség 5 µS/cm, és például savak, festékek, paszták, víz és szennyvíz esetében használják.

Savak

Festékek

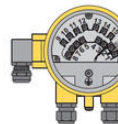
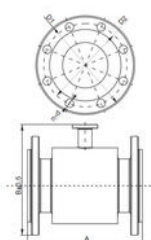
Paszták

Víz, szennyvíz stb.

MŰSZAKI ADATOK

IP-osztály	IP67
Jeltípus	4–20 mA
Kábelhossz	8 m
Környezeti hőmérséklet eddig:	60 °C
Környezeti hőmérséklet ettől:	-20 °C
Közeghőmérséklet eddig:	130 °C
Közeghőmérséklet ettől:	-25 °C
Max. nyomásellenállás	16 bar
Max. tápfeszültség, AC	260 V AC
Méréstechnológia	Elektromágneses
Min. tápfeszültség, AC	85 V AC
Osztályozási pontosság	A skálaérték ± 0,5%-a az EN 837-1-nek megfelelően
Test anyaga	Szén/rozsdamentes acél

		Dimensions [mm]						Weight
Dr.	Pr.	A	B	D1	D2	d	h	
30		150	55	90	80	14	4	2.5
40		180	65	100	90	14	4	3.5
50		210	75	110	100	14	4	4.5
63		250	90	130	120	16	5	6.5
80		300	105	155	145	16	5	8.5
100		360	125	180	170	18	6	11.5
125		450	150	220	210	20	7	16.5
160		560	180	270	260	22	8	22.5
200		700	210	330	320	24	9	29.5
250		880	240	400	390	26	10	38.5
315		1100	280	490	480	28	11	49.5
400		1400	330	600	590	30	12	63.5
500		1750	380	720	710	32	14	80.5
630		2200	450	860	850	34	15	101.5
800		2800	530	1020	1010	36	16	127.5
1000		3500	630	1200	1190	38	18	158.5
1250		4400	750	1440	1430	40	19	200.5
1600		5600	900	1740	1730	42	21	253.5
2000		7000	1050	2040	2030	44	23	317.5
2500		8800	1250	2400	2390	46	25	393.5
3150		11000	1450	2820	2810	48	27	490.5
4000		14000	1750	3360	3350	50	29	619.5
5000		17500	2100	4020	4010	52	31	780.5
6300		22000	2500	4800	4790	54	33	985.5
8000		28000	3000	5760	5750	56	35	1255.5
10000		35000	3600	6840	6830	58	37	1585.5
12500		44000	4200	8160	8150	60	39	2005.5
16000		56000	5000	9840	9830	62	41	2535.5
20000		70000	6000	11760	11750	64	43	3175.5
25000		88000	7200	14160	14150	66	45	3935.5
31500		110000	8500	17040	17030	68	47	4905.5
40000		140000	10000	20160	20150	70	49	6195.5
50000		175000	12000	24240	24230	72	51	7805.5
63000		220000	14500	28800	28790	74	53	9855.5
80000		280000	17500	34560	34550	76	55	12555.5
100000		350000	21000	40800	40790	78	57	15855.5
125000		440000	25000	48960	48950	80	59	20055.5
160000		560000	30000	58560	58550	82	61	25355.5
200000		700000	36000	69600	69590	84	63	31755.5
250000		880000	42000	82800	82790	86	65	39355.5
315000		1100000	50000	98400	98390	88	67	49055.5
400000		1400000	60000	117600	117590	90	69	61955.5
500000		1750000	72000	141600	141590	92	71	78055.5
630000		2200000	85000	170400	170390	94	73	98555.5
800000		2800000	100000	201600	201590	96	75	125555.5
1000000		3500000	120000	242400	242390	98	77	158555.5
1250000		4400000	145000	288000	287990	100	79	200555.5
1600000		5600000	175000	345600	345590	102	81	253555.5
2000000		7000000	210000	408000	407990	104	83	317555.5
2500000		8800000	250000	489600	489590	106	85	393555.5
3150000		11000000	300000	585600	585590	108	87	490555.5
4000000		14000000	360000	696000	695990	110	89	619555.5
5000000		17500000	420000	828000	827990	112	91	780555.5
6300000		22000000	500000	984000	983990	114	93	985555.5
8000000		28000000	600000	1176000	1175990	116	95	1255555.5
10000000		35000000	720000	1416000	1415990	118	97	1585555.5
12500000		44000000	850000	1704000	1703990	120	99	2005555.5
16000000		56000000	1000000	2016000	2015990	122	101	2535555.5
20000000		70000000	1200000	2424000	2423990	124	103	3175555.5
25000000		88000000	1450000	2880000	2879990	126	105	3935555.5
31500000		110000000	1750000	3456000	3455990	128	107	4905555.5
40000000		140000000	2100000	4080000	4079990	130	109	6195555.5
50000000		175000000	2500000	4896000	4895990	132	111	7805555.5
63000000		220000000	3000000	5856000	5855990	134	113	9855555.5
80000000		280000000	3600000	6960000	6959990	136	115	12555555.5
100000000		350000000	4200000	8280000	8279990	138	117	15855555.5
125000000		440000000	5000000	9840000	9839990	140	119	20055555.5
160000000		560000000	6000000	11760000	11759990	142	121	25355555.5
200000000		700000000	7200000	14160000	14159990	144	123	31755555.5
250000000		880000000	8500000	17040000	17039990	146	125	39355555.5
315000000		1100000000	10000000	20160000	20159990	148	127	49055555.5
400000000		1400000000	12000000	24240000	24239990	150	129	61955555.5
500000000		1750000000	14500000	28800000	28799990	152	131	78055555.5
630000000		2200000000	17500000	34560000	34559990	154	133	98555555.5
800000000		2800000000	21000000	40800000	40799990	156	135	125555555.5
1000000000		3500000000	25000000	48960000	48959990	158	137	158555555.5
1250000000		4400000000	30000000	58560000	58559990	160	139	200555555.5
1600000000		5600000000	36000000	69600000	69599990	162	141	253555555.5
2000000000		7000000000	42000000	82800000	82799990	164	143	317555555.5
2500000000		8800000000	50000000	98400000	98399990	166	145	393555555.5
3150000000		11000000000	60000000	117600000	117599990	168	147	490555555.5
4000000000		14000000000	72000000	141600000	141599990	170	149	619555555.5
5000000000		17500000000	85000000	170400000	170399990	172	151	780555555.5
6300000000		22000000000	100000000	201600000	201599990	174	153	985555555.5
8000000000		28000000000	120000000	242400000	242399990	176	155	1255555555.5
10000000000		35000000000	145000000	288000000	287999990	178	157	1585555555.5
12500000000		44000000000	175000000	345600000	345599990	180	159	2005555555.5
16000000000		56000000000	210000000	408000000	407999990	182	161	2535555555.5
20000000000		70000000000	250000000	489600000	489599990	184	163	3175555555.5
25000000000		88000000000	300000000	585600000	585599990	186	165	3935555555.5
31500000000		110000000000	360000000	696000000	695999990	188	167	4905555555.5
40000000000		140000000000	420000000	828000000	827999990	190	169	6195555555.5
50000000000		175000000000	500000000	984000000	983999990	192	171	7805555555.5
63000000000		220000000000	600000000	1176000000	1175999990	194	173	9855555555.5
80000000000		280000000000	720000000	1416000000	1415999990	196	175	12555555555.5
100000000000		350000000000	850000000	1704000000	1703999990	198	177	15855555555.5
125000000000		440000000000	1000000000	2016000000	2015999990	200	179	20055555555.5
160000000000		560000000000	1200000000	2424000000	2423999990	202	181	25355555555.5
200000000000		700000000000	1450000000	2880000000	2879999990	204	183	31755555555.5
250000000000		880000000000	1750000000	3456000000	3455999990	206	185	39355555555.5
315000000000		1100000000000	2100000000	4080000000	4079999990	208	187	49055555555.5
400000000000		1400000000000	2500000000	4896000000	4895999990	210	189	61955555555.5
500000000000		1750000000000	3000000000	5856000000	5855999990	212	191	78055555555.5
630000000000		2200000000000	3600000000	6960000000	6959999990	214	193	98555555555.5
800000000000		2800000000000	4200000000	8280000000	8279999990	216	195	125555555555.5
1000000000000		3500000000000	5000000000	9840000000	9839999990	218	197	158555555555.5
1250000000000		4400000000000	6000000000	11760000000	11759999990	220	199	200555555555.5
1600000000000		5600000000000	7200000000	14160000000	14159999990	222	201	253555555555.5
2000000000000		7000000000000	8500000000	17040000000	17039999990	224	203	317555555555.5
2500000000000		8800000000000	10000000000	20160000000	20159999990	226	205	393555555555.5
3150000000000		11000000000000	12000000000	24240000000	24239999990	228	207	490555555555.5
4000000000000		14000000000000	14500000000	28800000000	28799999990	230	209	619555555555.5
5000000000000		17500000000000	17500000000	34560000000	34559999990	232	211	780555555555.5
6300000000000		22000000000000	21000000000	40800000000	40799999990	234	213	985555555555.5
8000000000000		28000000000000	25000000000	48960000000	48959999990	236	215	1255555555555.5
10000000000000		35000000000000	30000000000	58560000000	58559999990	238	217	1585555555555.5
12500000000000		44000000000000	36000000000	69600000000	69599999990	240	219	2005555555555.5
16000000000000		56000000000000	42000000000	82800000000	82799999990	242	221	2535555555555.5
20000000000000		70000000000000	50000000000	98400000000	98399999990	244	223	3175555555555.5
25000000000000		88000000000000	60000000000	117600000000	117599999990	246	225	3935555555555.5
31500000000000		110000000000000	72000000000	141600000000	141599999990	248	227	4905555555555.5
40000000000000		140000000000000	85000000000	170400000000	170399999990	250	229	6195555555555.5
50000000000000		175000000000000	100000000000	201600000000	201599999990	252	231	



	Terminal	Description
Power supply	2	90...260V AC (V)
	3	0...30V DC (on request)
Binary output 1	3	reverse polarity protection, galvanic insulation, passive
	4	
Pulse/frequency output	5	reverse polarity protection, galvanic insulation, passive
Current output 4-20 mA	7	(V) active (passive on request)
	9	RS 485 A
Communication	10	RS 485 B
	11	RS 485
Binary input (passive)	12	GND / shield
	13	reverse polarity protection, galvanic insulation
Binary output 2	14	reverse polarity protection, galvanic insulation

DN 10 – DN 150 $\Delta \pm 5$ mm
DN 200 – DN 1000 $\Delta \pm 10$ mm

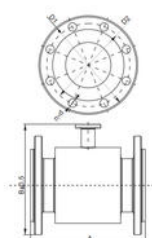
		Dimensions [mm]						Weight
Size	FR	A	B	C	D	E	F	g
10	150	130	50	80	14	4	4	1
15	or	105	95	85	14	4	4	2,3
20	200	180	110	100	15	5	5	3
25		187	115	105	16	4	4	3,5
30		180	140	100	16	4	4	4
40		200	150	110	17	5	5	5
50	200	191	185	125	18	4	4	7
60		209	185	145	18	4	4	8
70		215	190	150	19	5	5	9
80	250	245	210	170	22	6	6	12
125		275	230	220	26	8	8	17
150		285	240	230	28	8	8	20
200	250	375	300	250	32	12	12	30
250		400	420	375	33	12	12	38
300		410	430	410	33	12	12	40
350		424	505	460	33	16	16	45
400		435	520	550	36	16	16	50
450		457	530	560	36	16	16	55
500		750	730	730	50	20	20	160
600		870	845	775	50	20	20	180
700		970	940	870	50	20	20	210
800		1050	1000	900	48	24	24	250
900		1145	1105	1050	48	28	28	400

		Dimensions (mm)						Weight
IN	FIN	A	B	C	D	E	F	
11		150	153	85	262	43	6	1.3
13		150	153	85	65	14	6	2.3
15		200	182	105	75	14	4	3.3
17		200	182	105	75	14	4	5.3
19		250	182	140	50	14	4	5.3
21		250	182	140	50	14	4	7.3
23		250	182	140	50	14	4	9.3
25		300	209	165	18	18	6	9.3
27		300	209	165	18	18	6	11.3
29		300	209	165	18	18	6	13.3
31		350	236	220	26	18	8	13.3
33		350	236	220	26	18	8	15.3
35		350	236	220	26	18	8	17.3
37		400	400	400	38	33	12	18.3
39		400	400	400	38	33	12	20.3
41		500	487	515	40	33	18	20.3
43		500	487	515	40	33	18	22.3
45		500	487	515	40	33	18	24.3
47		500	487	515	40	33	18	26.3
49		500	487	515	40	33	18	28.3
51		500	487	515	40	33	18	30.3
53		500	487	515	40	33	18	32.3
55		500	487	515	40	33	18	34.3
57		500	487	515	40	33	18	36.3
59		500	487	515	40	33	18	38.3
61		500	487	515	40	33	18	40.3
63		500	487	515	40	33	18	42.3
65		500	487	515	40	33	18	44.3
67		500	487	515	40	33	18	46.3
69		500	487	515	40	33	18	48.3
71		500	487	515	40	33	18	50.3
73		500	487	515	40	33	18	52.3
75		500	487	515	40	33	18	54.3
77		500	487	515	40	33	18	56.3
79		500	487	515	40	33	18	58.3
81		500	487	515	40	33	18	60.3
83		500	487	515	40	33	18	62.3
85		500	487	515	40	33	18	64.3
87		500	487	515	40	33	18	66.3
89		500	487	515	40	33	18	68.3
91		500	487	515	40	33	18	70.3
93		500	487	515	40	33	18	72.3
95		500	487	515	40	33	18	74.3
97		500	487	515	40	33	18	76.3
99		500	487	515	40	33	18	78.3
101		500	487	515	40	33	18	80.3
103		500	487	515	40	33	18	82.3
105		500	487	515	40	33	18	84.3
107		500	487	515	40	33	18	86.3
109		500	487	515	40	33	18	88.3
111		500	487	515	40	33	18	90.3
113		500	487	515	40	33	18	92.3
115		500	487	515	40	33	18	94.3
117		500	487	515	40	33	18	96.3
119		500	487	515	40	33	18	98.3
121		500	487	515	40	33	18	100.3
123		500	487	515	40	33	18	102.3
125		500	487	515	40	33	18	104.3
127		500	487	515	40	33	18	106.3
129		500	487	515	40	33	18	108.3
131		500	487	515	40	33	18	110.3
133		500	487	515	40	33	18	112.3
135		500	487	515	40	33	18	114.3
137		500	487	515	40	33	18	116.3
139		500	487	515	40	33	18	118.3
141		500	487	515	40	33	18	120.3
143		500	487	515	40	33	18	122.3
145		500	487	515	40	33	18	124.3
147		500	487	515	40	33	18	126.3
149		500	487	515	40	33	18	128.3
151		500	487	515	40	33	18	130.3
153		500	487	515	40	33	18	132.3
155		500	487	515	40	33	18	134.3
157		500	487	515	40	33	18	136.3
159		500	487	515	40	33	18	138.3
161		500	487	515	40	33	18	140.3
163		500	487	515	40	33	18	142.3
165		500	487	515	40	33	18	144.3
167		500	487	515	40	33	18	146.3
169		500	487	515	40	33	18	148.3
171		500	487	515	40	33	18	150.3
173		500	487	515	40	33	18	152.3
175		500	487	515	40	33	18	154.3
177		500	487	515	40	33	18	156.3
179		500	487	515	40	33	18	158.3
181		500	487	515	40	33	18	160.3
183		500	487	515	40	33	18	162.3
185		500	487	515	40	33	18	164.3
187		500	487	515	40	33	18	166.3
189		500	487	515	40	33	18	168.3
191		500	487	515	40	33	18	170.3
193		500	487	515	40	33	18	172.3
195		500	487	515	40	33	18	174.3
197		500	487	515	40	33	18	176.3
199		500	487	515	40	33	18	178.3
201		500	487	515	40	33	18	180.3
203		500	487	515	40	33	18	182.3
205		500	487	515	40	33	18	184.3
207		500	487	515	40	33	18	186.3
209		500	487	515	40	33	18	188.3
211		500	487	515	40	33	18	190.3
213		500	487	515	40	33	18	192.3
215		500	487	515	40	33	18	194.3
217		500	487	515	40	33	18	196.3
219		500	487	515	40	33	18	198.3
221		500	487	515	40	33	18	200.3
223		500	487	515	40	33	18	202.3
225		500	487	515	40	33	18	204.3
227		500	487	515	40	33	18	206.3
229		500	487	515	40	33	18	208.3
231		500	487	515	40	33	18	210.3
233		500	487	515	40	33	18	212.3
235		500	487	515	40	33	18	214.3
237		500	487	515	40	33	18	216.3
239		500	487	515	40	33	18	218.3
241		500	487	515	40	33	18	220.3
243		500	487	515	40	33	18	222.3
245		500	487	515	40	33	18	224.3
247		500	487	515	40	33	18	226.3
249		500	487	515	40	33	18	228.3
251		500	487	515	40	33	18	230.3
253		500	487	515	40	33	18	232.3
255		500	487	515	40	33	18	234.3
257		500	487	515	40	33	18	236.3
259		500	487	515	40	33	18	238.3
261		500	487	515	40	33	18	240.3
263		500	487	515	40	33	18	242.3
265		500	487	515	40	33	18	244.3
267		500	487	515	40	33	18	246.3
269		500	487	515	40	33	18	248.3
271		500	487	515	40	33	18	250.3
273		500	487	515	40	33	18	252.3
275		500	487	515	40	33	18	254.3
277		500	487	515	40	33	18	256.3
279		500	487	515	40	33	18	258.3
281		500	487	515	40	33	18	260.3
283		500	487	515	40	33	18	262.3
285		500	487	515	40	33	18	264.3
287		500	487	515	40	33	18	266.3
289		500	487	515	40	33	18	268.3
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295		500	487	515	40	33	18	274.3
297		500	487	515	40	33	18	276.3
299		500	487	515	40	33	18	278.3
301		500	487	515	40	33	18	280.3
303		500	487	515	40	33	18	282.3
305		500	487	515	40	33	18	284.3
307		500	487	515	40	33	18	286.3
309		500	487	515	40	33	18	288.3
311		500	487	515	40	33	18	290.3
313		500	487	515	40	33	18	292.3
315		500	487	515	40	33	18	294.3
317		500	487	515	40	33	18	296.3
319		500	487	515	40	33	18	298.3
321		500	487	515	40	33	18	300.3
323		500	487	515	40	33	18	302.3
325		500	487	515	40	33	18	304.3
327		500	487	515	40	33	18	306.3
329		500	487	515	40	33	18	308.3
331		500	487	515	40	33	18	310.3
333		500	487	515	40	33	18	312.3
335		500	487	515	40	33	18	314.3
337		500	487	515	40	33	18	316.3
339		500	487	515	40	33	18	318.3
341		500	487	515	40	33	18	320.3
343		500	487	515	40	33	18	322.3
345		500	487	515	40	33	18	324.3
347		500	487	515	40	33	18	326.3
349		500	487	515	40	33	18	328.3
351		500	487	515	40	33	18	330.3
353		500	487	515	40	33	18	332.3
355		500	487	515	40	33	18	334.3
357		500	487	515	40	33	18	336.3
359		500	487	515	40	33	18	338.3
3								

DN	Flow value table in [m³/s]					
	$v_{0.005}$	$v_{0.01}$	$v_{0.05}$	$v_{0.1}$	$v_{0.5}$	$v_{1.0}$
5	0.0085	0.2803	0.8888	1.434	2.262	2.827
15	0.1381	0.6862	1.509	2.463	3.818	3.817
25	0.211	1.045	2.236	3.543	5.395	5.394
35	0.2650	1.267	2.531	3.836	5.937	5.937
45	0.3069	1.439	2.801	4.1426	6.522	6.523
55	0.3402	1.584	3.046	4.461	7.156	7.157
65	0.367	1.709	3.276	4.793	7.839	7.84
75	0.389	1.818	3.486	5.04	8.562	8.563
85	0.407	1.914	3.678	5.303	9.325	9.326
95	0.422	1.998	3.854	5.576	10.128	10.129
105	0.435	2.073	4.016	5.859	10.969	10.97
115	0.446	2.141	4.166	6.152	11.846	11.847
125	0.456	2.203	4.305	6.454	12.759	12.76
135	0.465	2.261	4.435	6.765	13.708	13.709
145	0.473	2.315	4.557	7.084	14.692	14.693
155	0.481	2.366	4.673	7.411	15.709	15.71
165	0.488	2.414	4.783	7.746	16.759	16.76
175	0.495	2.459	4.888	8.088	17.841	17.842
185	0.502	2.502	4.988	8.437	18.954	18.955
195	0.508	2.543	5.084	8.793	20.098	20.099
205	0.514	2.582	5.175	9.156	21.273	21.274
215	0.519	2.619	5.262	9.525	22.478	22.479
225	0.524	2.655	5.345	9.901	23.712	23.713
235	0.528	2.689	5.424	10.283	24.975	24.976
245	0.532	2.722	5.5	10.671	26.267	26.268
255	0.536	2.754	5.573	11.065	27.588	27.589
265	0.539	2.785	5.643	11.465	28.938	28.939
275	0.542	2.815	5.71	11.871	30.317	30.318
285	0.545	2.844	5.774	12.283	31.725	31.726
295	0.548	2.872	5.835	12.699	33.162	33.163
305	0.551	2.9	5.893	13.121	34.628	34.629
315	0.554	2.927	5.948	13.548	36.123	36.124
325	0.557	2.953	6.001	13.981	37.646	37.647
335	0.56	2.978	6.052	14.419	39.197	39.198
345	0.562	2.999	6.101	14.862	40.776	40.777
355	0.565	3.019	6.148	15.311	42.383	42.384
365	0.567	3.038	6.194	15.765	43.998	43.999
375	0.569	3.056	6.238	16.225	45.641	45.642
385	0.571	3.073	6.281	16.69	47.311	47.312
395	0.573	3.089	6.322	17.16	49.008	49.009
405	0.575	3.104	6.362	17.635	50.732	50.733
415	0.577	3.119	6.4	18.115	52.483	52.484
425	0.579	3.133	6.437	18.6	54.26	54.261
435	0.581	3.146	6.473	19.09	56.063	56.064
445	0.583	3.159	6.508	19.585	57.892	57.893
455	0.585	3.171	6.542	20.085	59.746	59.747
465	0.587	3.183	6.575	20.59	61.625	61.626
475	0.589	3.194	6.607	21.1	63.529	63.53
485	0.591	3.205	6.639	21.615	65.457	65.458
495	0.593	3.216	6.669	22.135	67.409	67.41
505	0.595	3.226	6.698	22.66	69.385	69.386
515	0.597	3.236	6.726	23.19	71.385	71.386
525	0.599	3.246	6.754	23.725	73.408	73.409

Standard Gmax and recommended Gmax range		
DN	Standard flow rate [m ³ /h]	Flow rate range [m ³ /h]
50	1	1 - 1.7
75	2	2 - 3.8
100	4	3.8 - 7.6
150	8	7.6 - 15.2
200	15	15.2 - 22.8
300	20	20 - 42.4
400	30	30 - 72
500	40	40 - 104
600	50	50 - 136
750	100	100 - 208
1000	150	150 - 260
1250	200	160 - 380
1500	250	240 - 660
2000	500	600 - 1080
2500	750	760 - 1520
3000	1000	1000 - 2080
4000	1500	1300 - 2700
6000	2000	
8000	3000	consult manufacturer
10000	4000	

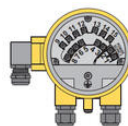
		Dimensions [mm]						Weight
DN	PN	A	B	C	D	E	F	
10	N	150	153	90	85	14	4	7.5
15		150	153	90	85	14	4	7.5
20		200	203	115	110	18	6	12.5
25		250	253	140	135	22	8	17.5
30		300	303	165	160	26	10	22.5
35		350	353	190	185	30	12	27.5
40		400	403	215	210	34	14	32.5
50		500	503	265	260	42	18	42.5
60		600	603	315	310	50	22	52.5
70		700	703	365	360	58	26	62.5
80	S	150	250	245	220	180	8	12
125		250	275	270	235	18	9	15
150		300	325	320	265	22	11	18
200		350	375	370	315	26	13	23
250		400	425	420	365	30	15	28
300		450	475	470	415	34	17	33
350		500	525	520	465	38	19	38
400		550	575	570	515	42	21	43
450		600	625	620	565	46	23	48
500		650	675	670	615	50	25	53
550	700	725	720	665	54	27	58	
600	750	775	770	715	58	29	63	
650	800	825	820	765	62	31	68	
700	850	875	870	815	66	33	73	
750	900	925	920	865	70	35	78	
800	950	975	970	915	74	37	83	
850	1000	1025	1020	965	78	39	88	
900	1050	1075	1070	1015	82	41	93	
950	1100	1125	1120	1065	86	43	98	
1000	1150	1175	1170	1115	90	45	103	



DN 10 – DN 150 $A \pm 5$ mm
DN 200 – DN 1000 $A \pm 10$ mm

		Dimensions [mm]						Weight
DN	PN	A	B	C	D	E	F	W
15	100	51	67	80	84	4	4	14
20	150	55	70	84	88	4	4	16
25	200	55	85	95	98	5	4	6
32	250	60	90	100	103	5	4	8
40	300	67	115	125	128	4	4	3.5
50	350	70	120	130	133	4	4	5
63	400	75	130	140	143	4	4	6
80	500	90	155	165	168	5	4	8
100	600	105	180	190	193	5	4	10
125	700	120	205	215	218	5	4	12
160	900	140	240	250	253	6	4	16
200	1100	160	270	280	283	6	4	20
250	1300	180	300	310	313	6	4	24
320	1500	200	330	340	343	6	4	28
400	1700	220	360	370	373	6	4	32
500	2000	250	400	410	413	6	4	40
630	2500	280	450	460	463	6	4	48
800	3000	320	500	510	513	6	4	56
1000	3500	360	560	570	573	6	4	64
1250	4000	400	620	630	633	6	4	72
1600	5000	450	700	710	713	6	4	80
2000	6000	500	780	790	793	6	4	88
2500	7000	550	860	870	873	6	4	96
3200	8000	600	940	950	953	6	4	104
4000	9000	650	1020	1030	1033	6	4	112
5000	10000	700	1100	1110	1113	6	4	120
6300	11000	750	1180	1190	1193	6	4	128
8000	12000	800	1260	1270	1273	6	4	136
10000	13000	850	1340	1350	1353	6	4	144
12500	14000	900	1420	1430	1433	6	4	152
16000	15000	950	1500	1510	1513	6	4	160
20000	16000	1000	1580	1590	1593	6	4	168
25000	17000	1050	1660	1670	1673	6	4	176
32000	18000	1100	1740	1750	1753	6	4	184
40000	19000	1150	1820	1830	1833	6	4	192
50000	20000	1200	1900	1910	1913	6	4	200
63000	21000	1250	1980	1990	1993	6	4	208
80000	22000	1300	2060	2070	2073	6	4	216
100000	23000	1350	2140	2150	2153	6	4	224
125000	24000	1400	2220	2230	2233	6	4	232
160000	25000	1450	2300	2310	2313	6	4	240
200000	26000	1500	2380	2390	2393	6	4	248
250000	27000	1550	2460	2470	2473	6	4	256
320000	28000	1600	2540	2550	2553	6	4	264
400000	29000	1650	2620	2630	2633	6	4	272
500000	30000	1700	2700	2710	2713	6	4	280

		Dimensions [mm]						Weight
Dn	Pn	A	B	C	D	E	F	
15	100	153	80	63	4	4	2.5	
15		155	85	65	4	4	2.5	
20		160	95	70	5	5	3.5	
25		165	105	75	6	6	4.5	
32		180	115	80	6	6	5.5	
40	200	185	120	85	6	6	6.5	
40		190	125	90	6	6	7.5	
50		200	135	95	7	7	8.5	
63		220	145	105	8	8	11.5	
80		240	160	115	8	8	15.5	
100	250	250	170	120	8	8	19.5	
100		255	175	125	8	8	20.5	
125		300	200	135	8	8	27.5	
160		350	230	160	8	8	39.5	
200		400	260	180	8	8	51.5	
250	300	450	290	200	8	8	67.5	
320		500	320	220	8	8	83.5	
400		560	350	240	8	8	103.5	
500		630	380	260	8	8	128.5	
630		710	420	280	8	8	163.5	
800	400	800	460	310	20	20	210	
1000		900	500	340	20	20	250	
1250		1000	550	370	20	20	300	
1600		1150	630	420	20	20	370	
2000		1350	720	480	20	20	450	



	Terminal	Description
Power supply	2	90...260V AC (*)
	3	10...36V DC (on request)
Binary output 1	4	reverse polarity protection, galvanic insulation, passive
	5	reverse polarity protection, galvanic insulation, passive
Pulse/frequency output	6	reverse polarity protection, galvanic insulation, passive
Current output 4-20 mA	7	(*) active (passive on request)
	8	RS 485 A
	9	RS 485 B
Communication	10	RS 485
	11	GND / shield
Binary input (passive)	12	reverse polarity protection, galvanic insulation
	13	reverse polarity protection, galvanic insulation
Binary output 2	14	reverse polarity protection, galvanic insulation

DN	Flow value table (in m ³ /h)				
	v=0.3m/s	v=0.5m/s	v=0.7m/s	v=0.9m/s	v=1.1m/s
50	0.0895	0.263	0.5448	1.474	2.282
75	0.1719	0.509	1.056	2.845	4.181
100	0.3336	0.931	1.9363	5.058	7.3503
125	0.483	1.325	2.756	7.241	10.505
150	0.6899	1.895	3.9698	10.476	15.162
175	0.934	2.634	5.596	14.66	21.35
200	1.2137	3.569	7.7699	20.39	29.63
225	1.528	4.754	10.506	28.43	40.86
250	1.882	6.199	13.807	38.33	55.66
275	2.275	7.924	17.677	50.64	73.66
300	2.708	9.949	22.226	65.93	95.46
325	3.181	12.284	27.569	83.87	121.66
350	3.694	14.95	33.824	104.19	152.86
375	4.247	17.97	41.025	127.53	188.77
400	4.84	21.35	49.299	154.5	229.9
425	5.473	25.11	58.782	185.7	276.7
450	6.146	29.26	69.603	221.6	329.6
475	6.86	33.82	81.902	262.8	389.3
500	7.614	38.81	95.818	309.9	456.4
525	8.408	44.25	111.39	363.6	531.6
550	9.242	50.15	128.78	424.6	615.7
575	10.116	56.53	148.14	493.6	709.6
600	11.03	63.4	169.63	571.3	814.2
625	12.08	70.78	193.43	658.4	930.4
650	13.26	78.68	219.72	755.7	1059.1
675	14.58	87.12	248.69	864.1	1201.4
700	15.94	96.13	280.53	984.4	1358.3
725	17.44	105.73	315.45	1117.5	1530.8
750	19.08	115.95	353.86	1264.5	1719.9
775	20.86	126.8	396.1	1426.3	1926.6
800	22.78	138.28	442.59	1603.8	2153.1
825	24.84	150.43	493.69	1798.9	2400.6
850	27.04	163.27	549.82	1992.6	2670.2
875	29.38	176.83	611.41	2206.1	2963.9
900	31.87	191.14	678.92	2440.4	3283.6
925	34.51	206.23	752.82	2696.6	3630.4
950	37.3	222.13	833.59	2975.7	4006.3
975	40.24	238.86	921.72	3279.8	4413.4
1000	43.36	256.45	1017.8	3610.9	4853.8

Standard Gmas and recommended Gmas range		
DN	Standard flow rate [m ³ /h]	Flow rate [m ³ /h]
10	1	1 - 1.7
15	2	2 - 3.5
20	4	3.5 - 6.8
25	5	5 - 10.8
32	10	9 - 17.4
40	15	14 - 27.1
50	20	20 - 42.4
63	30	30 - 72
80	40	38 - 105
100	100	85 - 170
125	150	130 - 205
150	200	190 - 340
200	350	340 - 680
250	500	520 - 1050
300	750	760 - 1510
350	1000	1000 - 2000
400	1300	1300 - 2700
500	2000	
600	3000	consult manufacturers
800	5000	
1000	8000	