Quanto monopipe EQZ

for internal and industrial measurements

Technical characteristics quanto monopipe EQZ

Primary

- Principle of velocity measurement
- For internal measurement (without verification)
- Sizes Q 16 up to Q 400
- Connections DN 40, 50, 80 and 100
- Different Q-sizes per nominal width:
  – DN 40: Q 16 up to Q 65
  – DN 50: Q 16 up to Q 100
  – DN 80: Q 65 up to Q 250
  – DN 100: Q 100 up to Q 400
- Operational Pressure max. 6 bar
- Meter without monopipe fitting can be calibrated
- Pressure extraction connection inside the meter
- Counting device is in a gas-free space
- Low starting value
- High measurement stability and operational security due to high-quality, wear-resistant components; self-lubricating ball bearings
- Designed for simple servicing (measurement-cartridge principle)
- Standard integrated flow strainer
- Short straight inlet lengths (2 × DN)
- Operation temperature range:
  – gas temperature
  -10˚C up to +60˚C
  – ambient temperature
  -10˚C up to +60˚C

Options

- Over-run brake:
  mechanical over-run brake without measuring range restriction for intermittent operation
- Pulse generators:
  – 2 × LF-IPG, 1 × can be retrofitted without breaking the manufacturing seal
  – MF-IPG
  – HF-IPG
- Temperature sensor pockets in the monopipe fitting

Mounting and maintenance

- Mounting/dismounting of the meter element possible without disconnecting the monopipe fitting
- The monopipe fitting remaining in the pipe network enables mounting/dismounting of the meter element without tension from the pipe network
- Can be installed in any position from horizontal to vertical (turbine axis not suspended and roller counter axis always horizontal)

Norms

- Developed and produced according to Quality Standard ISO 9001

Technical data quanto monopipe EQZ

		Load range		Pressure	Pulse generators (option)			
DN (mm)	Size	Q_{min} (m^3/h)	Q_{max} (m^3/h)	p_{max} (bar)	LF 1pulse = m^3	2nd LF 1pulse = m^3	MF 1pulse = m^3	HF approx.f at Q_{max} (Hz)
40/50	Q 16	3	25	6	1	1	0,01	350
40/50	Q 25	4	40	6	1	1	0,01	550
40/50	Q 40	5	65	6	1	1	0,01	850
40/50	Q 65	6	100	6	1	1	0,01	1300
50	Q 100	10	160	6	1	1	0,01	1300
80	Q 65	10	100	6	1	1	0,01	200
80	Q 100	12	160	6	1	1	0,01	320
80	Q 160	15	250	6	1	1	0,01	500
80	Q 250	20	400	6	1	1	0,01	800
100	Q 100	13	160	6	1	1	0,01	280
100	Q 160	15	250	6	1	1	0,01	440
100	Q 250	20	400	6	1	1	0,01	380
100	Q 400	25	650	6	1	1	0,01	610

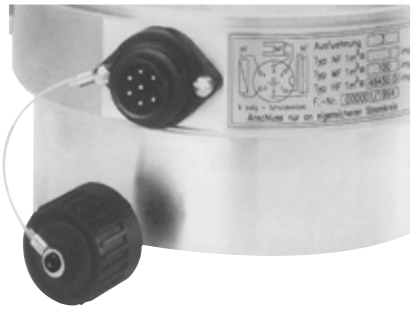
Over-run brake

Quanto monopipe without over-run brake

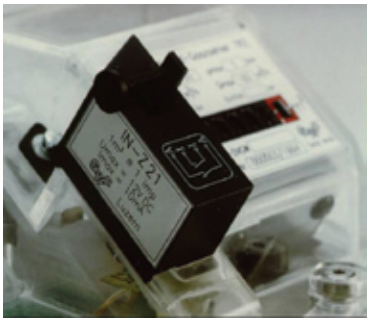
Quanto monopipe with over-run brake NLB

Pulse generators

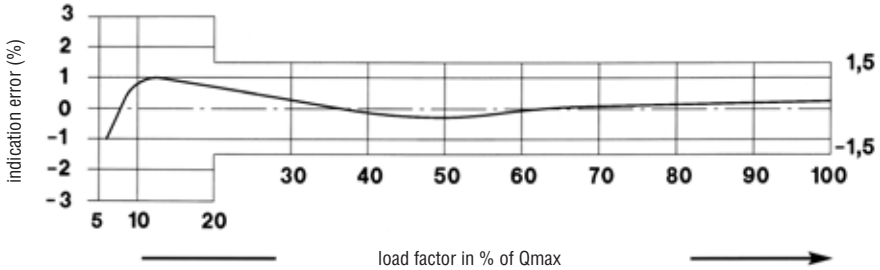
Connection of LF-, MF- as well as HF-pulse generators



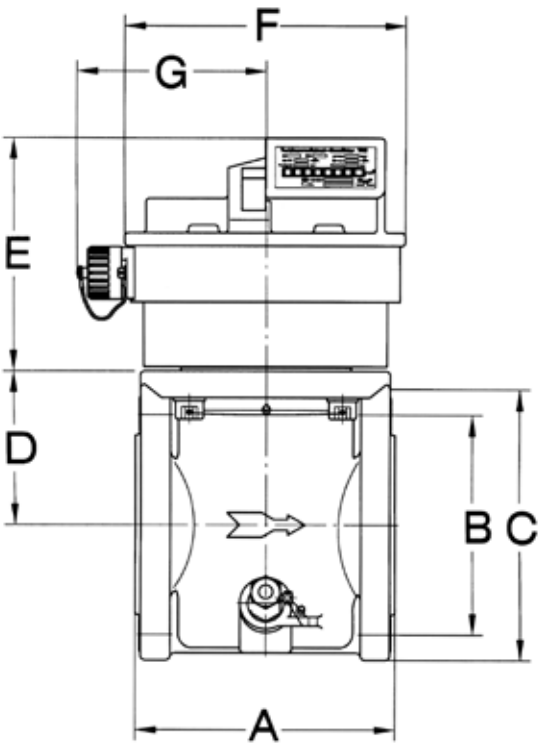
LF-pulse generator can be fitted by user without breaking the manufacturing seal

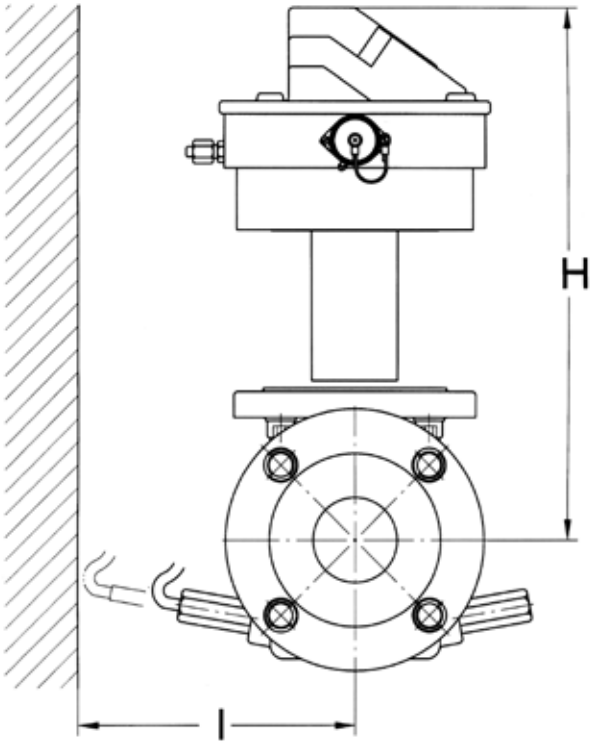


Error curve



Dimensional drawings



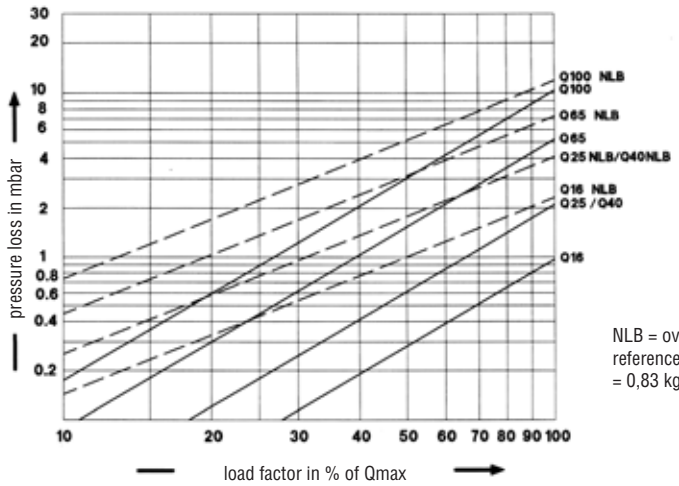


Dimensions and weights of the monopipe fitting and the quanto monopipe EQZ

Monopipe adaptor (EAS)				Dimensions **(mm)**									Weight **(kg)**	
EAS	Connection to pipe	For gasmeter	Threaded (G) Flanged (F)	A	B	C	D	E	F	G	H	I	Gas-meter	Monopipe adaptor (EAS)
107 C	G 2" *	DN 50	PN 4 - G	185	-	-	70	136	161	109	-	150	3,3	3,1
GEW 50	G 2"	DN 50	PN 4 - G	185	-	-	87	134	161	109	332	150	3,3	5,8
GEW 40	G 1,5"	DN 50	PN 4 - G	140	-	-	87	134	161	109	332	150	3,3	5,5
BL 150	DN 50	DN 50	PN 16 - F 4-holes	150	125	165	87	134	161	109	332	150	3,3	10
BL 200	DN 50	DN 50	PN 16 - F 4-holes	200	125	165	87	134	161	109	332	150	3,3	12
108-F 80	DN 80	DN 80	PN 16 - F 8-holes	240	160	200	120	150	190	115	423	200	5,9	16
109-F 100	DN 100	DN 100	PN 16 - F 8-holes	300	180	220	130	170	220	125	460	200	9,1	24,2
50/65	DN 65	DN 50	PN 16 - F 4-holes	340	145	185	87	134	161	109	332	150	3,3	13
50/80	DN 80	DN 50	PN 16 - F 8-holes	380	160	200	87	134	161	109	332	150	3,3	16
Monopipe adaptor (EAS) with 2 temperature probes				Dimensions **(mm)**									Weight **(kg)**	
GEW 50	G 2"	DN 50	PN 4 - G	185	-	-	87	134	161	109	332	200	3,3	6
BL 150	DN 50	DN 50	PN 16 - F 4-holes	150	125	165	87	134	161	109	332	200	3,3	10,2
108-F 80	DN 80	DN 80	PN 16 - F 8-holes	240	160	200	120	150	190	115	423	250	5,9	16,2
109-F 100	DN 100	DN 100	PN 16 - F 8-holes	300	180	220	130	170	220	125	460	250	9,1	24,4

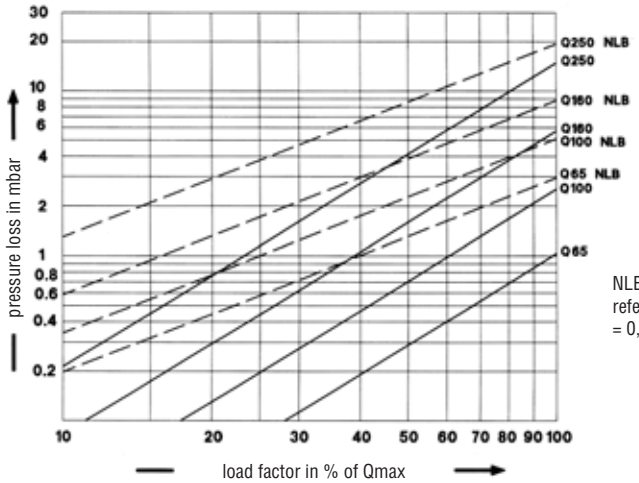
*only for the meter without over run brake

Pressure loss meter DN 40/50



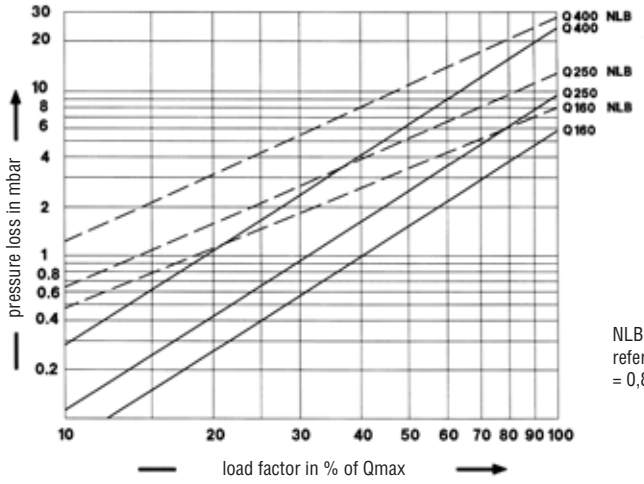
NLB = over-run brake
reference density natural gas ϱ
= 0,83 kg/m³ (average value)

Pressure loss meter - EQZ 2 DN 80



NLB = over-run brake
reference density natural gas ϱ
= 0,83 kg/m³ (average value)

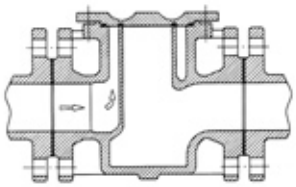
Pressure loss meter - EQZ 2 DN 100



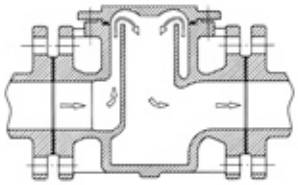
NLB = over-run brake
reference density natural gas ϱ
= 0,83 kg/m³ (average value)

Application fields

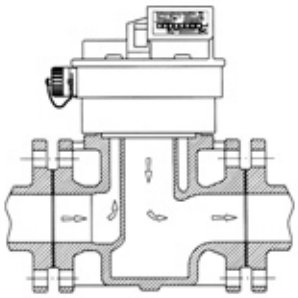
Prepared measuring point with lid cap:
➡no gas flow!



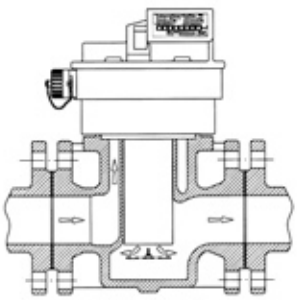
Prepared measuring point with overflow cap:
➡gas is flowing!



Operative measuring point with gas meter without over-run brake:



Operative measuring point with gas meter with over-run brake:



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