

CORONA DP 405

Multi-Jet Meter | Dry Runner

DIEHL
Metering



APPLICATION

Contact water meter for proportional control of pumps, motors, etc. and for remote transmission of flow rates.

FEATURES

- ▶ Multi-jet impeller meter in completely dry-running design with magnetic coupling
- ▶ Only the impeller operates in the wet chamber to prevent faults due to sediment
- ▶ Counter can be rotated to any position for easy reading
- ▶ Built-in pulse contact (with cable 2 m) cast in a waterproof enclosure and easily replaceable
- ▶ Max. contact load 24 V (SELV) 0.2 A
- ▶ The outlet is prepared for installing a non-return valve (DVGW approved)

CORONA DP 405

Meter for horizontal pipes

Multi-Jet Meter | Dry Runner

GENERAL

Meter for horizontal pipes			
Medium temperature range	°C	1 ... 30	
Temperature safety	°C	1 ... 90	
Ambient storage temperature	°C	1 ... 55	
Nominal pressure	PN	bar	16
Display range	0.05 l ... 99,999 m³		
Pulse value - without MID approval	l/pulse	0.25 ¹ , 0.5 ¹ , 1, 2.5, 10	
Pulse value - with MID approval	l/pulse	100, 1000	
Pulse transmitter	Reed switch sealed (opener)		
Max. contact load	V	24 (without contact protection device)	
Max. contact load	A	0.2 (without contact protection device)	
Protection class	IP 65		

¹ not available for DN 40

TECHNICAL DATA

Nominal diameter	DN	mm	20	25 ²	25 ²	25	40
Permanent flow rate	Q ₃	m ³ /h	4	4	6.3	6.3	16
Overall length (DIN ISO 4064)	L	mm	190	175	175	260	300
Overload flow rate	Q ₄	m ³ /h	5	5	7.88	7.88	20
Transitional flow rate	Q ₂	l/h	160	160	253	253	640
Minimum flow rate	Q ₁	l/h	100	100	158	158	400
Starting flow rate		l/h	20-25	20-25	40-50	40-50	60-70
Flow rate at 1 bar pressure loss		m ³ /h	7	7	12	12	24

² only without MID approval

APPROVAL

Meter for horizontal pipes		
MID		DE-16-MI001-PTB012
Dynamic range (Q ₃ /Q ₁)	R	40 H
Potable water		AoC DEU

REACH

Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:

This product series contains articles with the following substances in a concentration of more than 0.1% weight by weight (w/w):

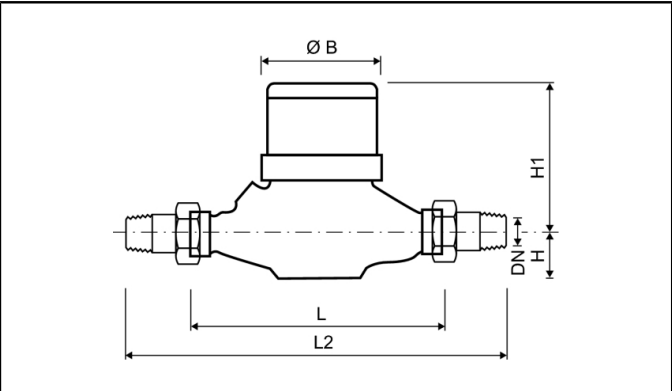
- Lead (CAS no.: 7439-92-1)

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Meter for horizontal pipes

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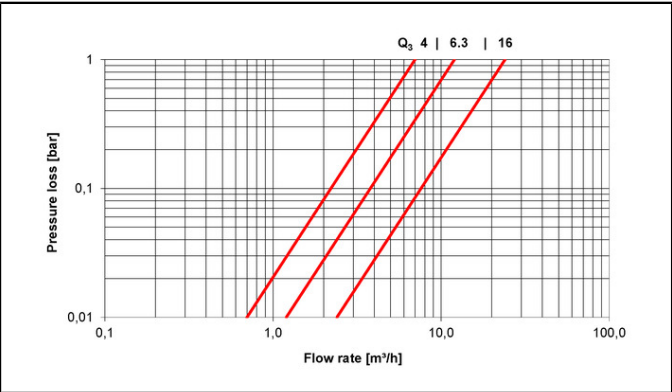
DIMENSIONS



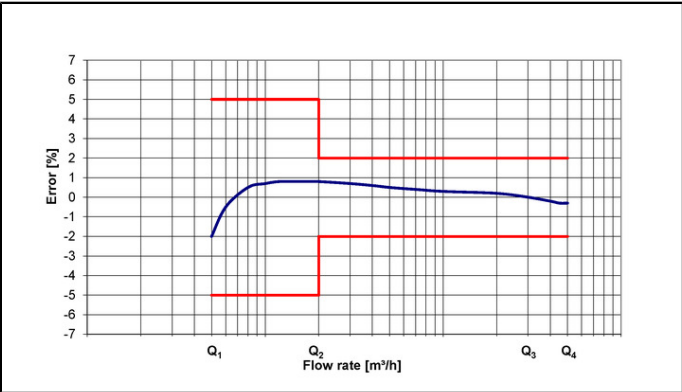
Nominal diameter	DN	mm	20	25 ²	25 ²	25	40
Permanent flow rate	Q ₃	m ³ /h	4	4	6.3	6.3	16
Overall length (DIN ISO 4064)	L	mm	190	175	175	260	300
Overall length with coupling	L2	mm	288	275	275	378	438
Connection thread on meter (ISO 228/1)		Inch	G1B	G1¼B	G1¼B	G1¼B	G2B
Connection thread of coupling (DIN 2999)		Inch	R¾	R1	R1	R1	R1½
Height	H	mm	35	45	45	45	50
Height	H1	mm	120	125	125	125	140
Diameter	Ø B	mm	96	102	102	102	137
Weight without coupling		kg	1.7	2.5	2.5	2.5	4.7
Weight with coupling		kg	2.1	3.1	3.1	3.1	5.9

² only without MID approval

PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

CORONA DP 405

Meter for rising pipes

Multi-Jet Meter | Dry Runner

GENERAL

Meter for rising pipes			
Medium temperature range	°C	1 ... 30	
Temperature safety	°C	1 ... 90	
Ambient storage temperature	°C	1 ... 55	
Nominal pressure	PN	bar	16
Display range	0.05 l ... 99,999 m³		
Pulse value - without MID approval	l/pulse	0.25¹, 0.5¹, 1, 2.5, 10, 100, 1000	
Protection class	IP 65		

¹ not available for DN 40

TECHNICAL DATA

Nominal diameter	DN	mm	20	25	40
Permanent flow rate	Q ₃	m ³ /h	4	6.3	16
Overall length (DIN ISO 4064)	L	mm	105	150	200
Overload flow rate	Q ₄	m ³ /h	5	7.88	20
Transitional flow rate	Q ₂	l/h	160	253	640
Minimum flow rate	Q ₁	l/h	100	158	400
Starting flow rate		l/h	20-25	40-50	60-70
Flow rate at 1 bar pressure loss		m ³ /h	6	12	22

APPROVAL

Meter for rising pipes		
MID		-
Dynamic range (Q ₃ /Q ₁)	R	40 H
Potable water		AoC DEU

REACH

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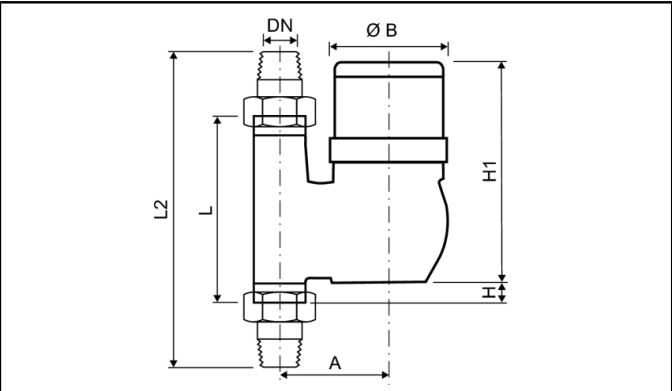
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- Lead (CAS no.: 7439-92-1)

CORONA DP 405 Meter for rising pipes

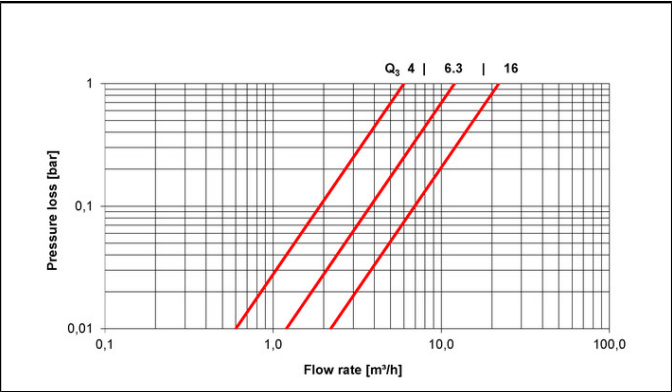
Multi-Jet Meter | Dry Runner

DIMENSIONS

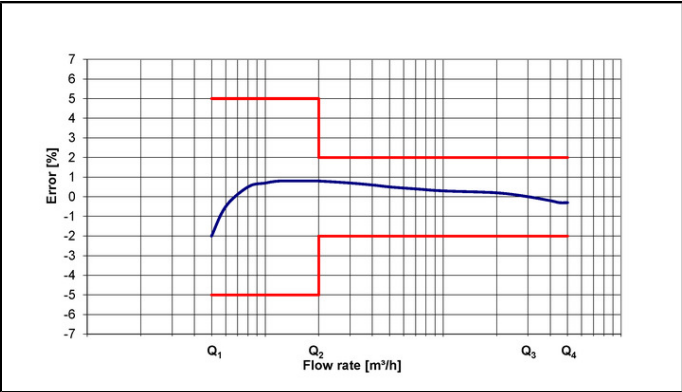


Nominal diameter	DN	mm	20	25	40
Permanent flow rate	Q ₃	m ³ /h	4	6.3	16
Overall length (DIN ISO 4064)	L	mm	105	150	200
Overall length with coupling	L2	mm	203	268	338
Connection thread on meter (ISO 228/1)		Inch	G1B	G1¼B	G2B
Connection thread of coupling (DIN 2999)		Inch	R¾	R1	R1½
Height	H	mm	15	32	22
Height	H1	mm	154	165	177
Diameter	Ø B	mm	96	102	136
Width	A	mm	82	95	120
Weight without coupling		kg	2.1	3.1	5.5
Weight with coupling		kg	2.5	3.7	6.7

PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph