

Bypass Meters

for Compound Water Meters



Rotary Piston Meter RKD Qn 2.5 / 3.5 / 6 / 10

Special Features

- Performance data better than class C
- Measurement of very low flowrates
- Hermetically sealed register (IP 68)
- Register may be rotated through 360°
- Register with 6 digits, 3 sweep hands and low flow leak indicator (Qn 2.5)
- Long service due to high quality materials
- Easy maintenance

Options

- Standard register may be equipped with up to 3 pulsers (1 x OD, 2 x RD) without breaking the meter seal
- Electronic registers (Hybrid, Encoder) may be equipped with pulser OD
- Meters may be fitted with 3 different electronic registers



HYBRID



ELECTRONIC



ENCODER

Application

As bypass meter for compound water meters with automatic meter reading

- Qn 2.5 for DN 50 ... 100
- Qn 3.5 and Qn 6 for DN 100 (optional)
- Qn 10 for DN 150

For automatic meter reading and connection of a high resolution pulser e.g. for data logging

Pattern Approval Sign

D 96 Cold water meter
Qn 2,5

6.123.05 Marking:
Metrological class C
30 °C

B 77 Cold water meter
Qn 3,5 / 6 / 10

32.04 Marking:
Metrological class C
30 °C

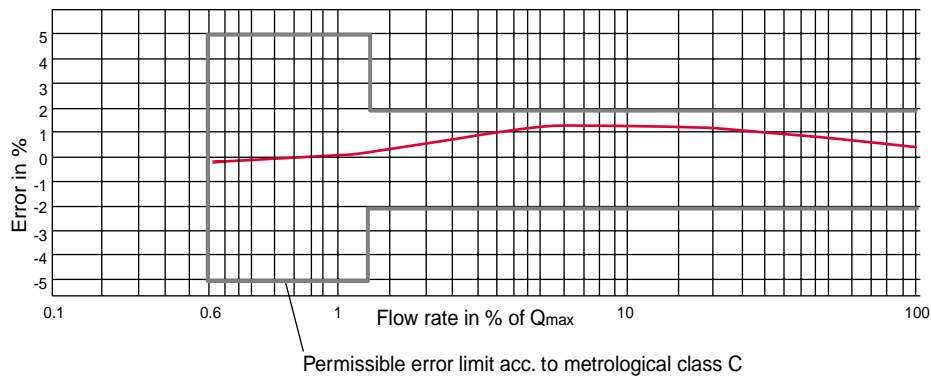
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Technical Data

Rotary Piston Meter RKD			Qn 2.5	Qn 3.5	Qn 6	Qn 10
Continuous flow $\pm 2\%$	Q_n	m ³ /h	2.5	6	6	10
Max. peak flow (few minutes)	Q_{max}	m ³ /h	5.0	12	12	20
Transitional flow $\pm 2\%$	Q_t	l/h	12	52.5	52.5	150
Minimum flow $\pm 5\%$	Q_{min}	l/h	6.0	35	35	100
Starting flow		l/h	2	10	10	15
Nominal pressure	PN	bar	16	16	16	16
Head loss	Δp at Q_{max}	bar	0.48	1.0	1.0	1.0
Overall length	L	mm	190	260	260	300
Connection thread size			G1B	G1 1/4 B	G1 1/4 B	G2 B
Height	H	mm	145	186	186	193
Width	B	mm	110	135	135	150

Typical Accuracy Curve



Pulse Values

RKD Qn 2,5

for Standard-register

RD 01*) 1 pulse = 10 l and
1 pulse = 100 l

for Standard-, Hybrid- and Encoder-register

OD 01 1 pulse = 0.1 l
OD 03 1 pulse = 1 l

RKD Qn 3,5 / 6 / 10

for Standard-register

RD 01*) 1 pulse = 100 l and
1 pulse = 1000 l

for Standard-, Hybrid- and Encoder-register

OD 01 1 pulse = 1 l
OD 03 1 pulse = 10 l

*) other pulse values on request

Available Designs

Rotary Piston Meter RKD Qn 2.5 / 3.5 / 6 / 10

with Standard register and connection port for RD and OD

with Hybrid register and connection port for OD

with Electronic register

with Encoder register and connection port for OD



**Multijet Meter Type T with Encoder Register
as bypass meter for WPVD 3=1 DN 50 ... 100**

Special Features

Meter

- Multijet meter - Dry dial
- Register made of glass/copper
- Protection class IP 68
- Register with 5 digits and 4 sweep hands
- Register equipped with patented Opto-Encoder for remote reading
- Metrological standard better than class B

Opto-Encoder

- Opto-electronic reading of the 5 digit roller counter
- Absolute correlation between the mechanical register and the remote reading
- Serial interface with 5 m cable for read out by radio, cable or inductive touch pad

Read out possibilities:

- Meter serial number
- Roller counter value
- Function control
- Error-status

Technical Data

Type			Qn 2.5T
Continuous flow	Q_n	m ³ /h	2.5
Max. peak flow	Q_{max}	m ³ /h	5.0
Transitional flow $\pm 2\%$	Q_t	m ³ /h	0.2
Minimum flow $\pm 5\%$	Q_{min}	m ³ /h	0.05
Nominal pressure	PN	bar	16
Overall length	L	mm	190
Connection thread size			G1B
Height	H	mm	155
Width	B	mm	82

Pattern Approval Sign

D 86

Cold water meter
Qn 2.5

6.131.97

Marking:
Metrological class B
30 °C





Rotary Piston Cartridge Water Meter Type R-TP with Encoder Register as bypass meter for WPVD 3=1 DN 50 ... 100

Special Features

Meter

Calibrated measuring cartridge principle allowing efficient exchange in compliance with local calibration standards.

Unique measuring range of approx. 1 : 800 (6...5000l/h)

Metrological class C maintained in all installation positions

Measurement of very low flowrates ("Dripping taps"). Meter begins registering from 2 l/h

Register with 5 digits and 4 sweep hands

Register equipped with patented Opto-Encoder for remote reading

Housing made of glass/copper

Protection class IP 68

Silent operation through special construction, optimised rotation speed and material selection.

Opto-Encoder

Opto-electronic reading of the 5 digit roller counter

Absolute correlation between the mechanical register and the remote reading

Serial interface with 5 m cable for read out by radio, cable or inductive touch pad

Read out possibilities:

- Meter serial number
- Roller counter value
- Function control
- Error-status

Technical Data

Type			R-TP
Continuous flow	Q_n	m ³ /h	2.5
Max. peak flow	Q_{max}	m ³ /h	5.0
Transitional flow $\pm 2\%$	Q_t	l/h	12
Minimum flow $\pm 5\%$	Q_{min}	l/h	6
Nominal pressure	PN	bar	16
Head loss at Q_{max}	Δp	bar	0.48
Starting flow		l/h	2
Overall length	L	mm	190
Connection thread size			G1B
Height	H	mm	155
Width	B	mm	100
Meas. cartridge-replacement height	mm	at least 180	

Pattern Approval Sign

D 96

Cold water meter

Q_n 2.5

6.123.05

Marking:

Metrological class C

30 °C