

Single-jet vane-type water meter

JS SMART D+

DESCRIPTION

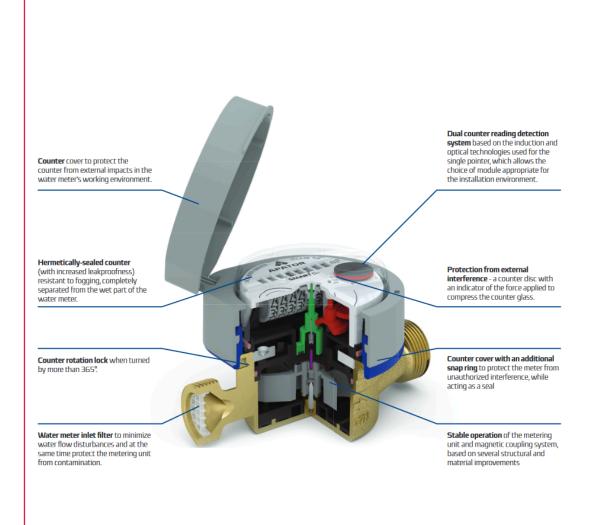
Smart D+ is the next generation of the "Smart" series of single-jet dry water meters, featuring exceptional measurement accuracy, low water consumption and modern design. These new solutions have been designed to significantly increase the metrological and service life parameters. The water meter is interoperable with clip-on communication modules for automatic wired or wireless meter reading. The water meter design is MID Directive compliant, and is classed as operating in the R200 measurement range.

APPLICATION

Cold, i.e. Up to 50°C, water supply systems in single-and multi-family houses. The rotating counter facilitates water meter readings in the appropriate operationg positions. Installation in



horizontal pipelines (pipes) with a top ($H \wedge$) or side ($H \rightarrow$) counter, and vertical pipelines with a side (V) counter.



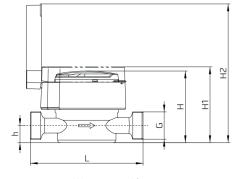
Advantages	 Exact measurements in the R range: up to 200-H and up to 80-V Low starting flow EN14154 compliant resistance to external magnetic fields No need for straight sections upstream or downstream of the UODO water meter Proprietary water meter counter cover design to increase resistance to adverse external impacts No need for copper wire and lead seal (compliant with RoHS Directive recommendations) Suitable for remote readings (radio, pulse or M-Bus) Hermetically-sealed counter, resistant to fogging, with clear numbers on the barrels in two colours for improved reading accuracy Alarm capability - meter with a communication module, capable of signalling removal of or demage to the module, disruption of operation, reverse flows, leakage, etc. Convenient reading, with the option of the swivel-set cpunter rotation of up to 365° relative to its axis Moder and ergonomic design Proven and durable structure Modern and ergonomic design
FEATURES	 MID-compliant EC-type examination certificate Pre equipped for AMR (optical and inductive) data communication modules Two-point rotor bearings and other sulutions and materials used to ensure stable metrology over the service life Potable water approved certified materials Electronic diagnostics of metrological parameters Special magnetic coupling desing Protection against mechanical interference - with a pin to deform the counter disc as permanent evidence of unauthorized interference
FEATURES	 Directive 2014/32/EC od the European Parliament and of the Council of Europe of 26 February 2014 on the harmonisation of the laws of Member States related to the making available on the market of measuring instruments The Polish Act of 13/04/2016 on market surveillance and compliance assessment systems EN-ISO 4064-1+5 2014 (E) - Water meter for cold potable water and hot water EC type test certificate-cold water Classification of mechanical environmental conditions - class M1, as per Directive 2014/32/EC of the European Parliament and of the Council of 26 February 2014 Classification of electromagnetic environmental conditions - class E1, E2, as per EN-ISO 4064:2014 and Directive 2014/32/EC of the European Parliament and of the Council of 26 February 2014 PZH National Institute of Hygiene certificate (all materials used in JS water have Hygiene Certificates for use with potable water)

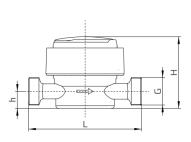
SPECIFICATIONS

Davamatu				SMART D+			
Parametr				JS1,6-02	JS2,5-02	JS2,5-G1-02	JS4-02
Nominal diameter		DN	mm	15		20	
Permanent flow rate		Q₃	m³/h	1,6 2,5		2,5	4
Maximum flow rate		Q_4	m³/h	2 3,125		5	
Transitional flow rate	H↑		dm³/h	16	20		32
	V, H →	Q ₂		40	50		80
Minimum	H↑	Q ₁	dm³/h	10	1	2,5	20
flow rate	V,H →			25	3	1,25	50
Starting flow		-	dm³/h	5		5	12
Measurement range R=Q ₃ /Q ₁		ŀ	1	160	Z	200	200
		١	/	80 80		80	
Q₂/Q₁ ratio		-	-	1,6			
Temperature class (rated operating temperature)		-	-	T50			
Flow profile sensitivity class		-	-	UO, DO			
Indicating range		-	m³	99999			
Resolution of reading		-	m³	0,00005			
Maximum pressure		P _{max}	MPa	1,6			
Maximum pressure loss		Δр	kPa	63			
Advisable error in the range: $Q_2 \leq Q \leq Q_4$			%	±2			
Advisable error in the range: $Q_1 \leq Q < Q_2$			%	±5			
Water meter counter leakproofness class		-	-	IP65			
Inlet and outle		G	inch	G¾	G¾; G%	G1	G1
		Н	mm	69),5	70	
Dimensions		H1	mm	73,5 74			
		H2	mm	134,2			
		h	mm	16,5		17	
Length		El*	mm	110	110	130	130
Diamotar		D	mm	77			
Diameter		D**	mm	90			
Weight (w/o connection fittings)		-	kg	0,463	0,458	0,589	0,552

Water meter model - O2 (with eight-barrel counter and communication module mount)

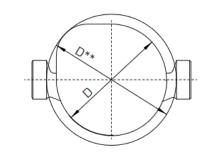
*Custom designs of body length L=105; 115 DN15 and 115 DN20 are available on special request





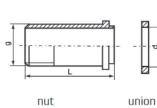
Water meter with cover

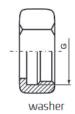
Water meter w/o cover



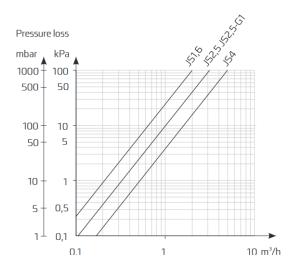
CONNECTION FITTINGS

G	g	d	El	
inch	inch	mm	mm	
3⁄4	1⁄2	17	40	
1	3⁄4	23	50	
		³ ⁄ ₄ ¹ ⁄ ₂	³ ⁄ ₄ ¹ ⁄ ₂ 17	

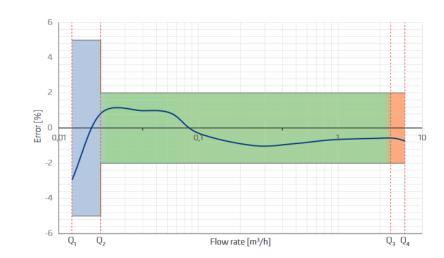




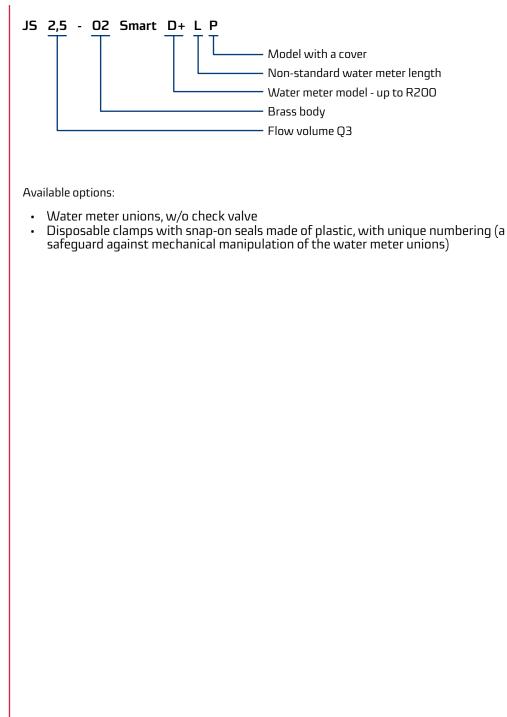
PRESSURE LOSS CHART







ORDERING CODE EXAMPLE



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Your distributor:

The manufacturer reserves the right to change design, technical specifications and accesories without prior notice. K2024/05a