

JS SMART+

Vane-wheel single-jet dry water meters (DN15-20)

Application

For measuring the flow and volume of water with a temperature up to 30°C or 50°C, or warm water with a temperature up to 90°C in the closed-circuit system with the full flow of the flux, and on the maximum working pressure up to 16 bar (PN16). Suitable for installation in the horizontal hoses (pipelines) with the counter directed upwards (**H**) and in vertical or horizontal hoses with the counter directed sideways (**V**). Water meters SMART+ and standard version are equipped with low eight-barrel counter (IP65), antimagnetic protection SN +, brass housing and they are adapted to operation in the systems of remote data transfer (AMR).



JS SMART+

Measurement range (MID):

- Cold water **R100 - H; R50 - V**
- Warm water **R80 - H or R100****-H; R40 - V or R50**** - V**



Table 3. Basic technical data

Type*		Q ₃ [m ³ /h]	DN [mm]	Length [mm]	Connection	Weight [kg]
WATER METERS for cold water						
JS 1,6-02 Smart+	R100	1,6	15	110	G ³ / ₄	0,43
JS 1,6-03 Smart+	R80	1,6	15	110	G ³ / ₄	0,25
JS 2,5-02 Smart+	R100	2,5	15	110***	G ³ / ₄	0,43
JS 2,5-03 Smart+	R80	2,5	15	110	G ³ / ₄	0,25
JS 2,5-G1-02 Smart+	R100	2,5	20	130	G1	0,57
JS 4-02 Smart+	R100	4	20	130	G1	0,53
WATER METERS for warm water**						
JS90 1,6-02 Smart+	R100****	1,6	15	110	G ³ / ₄	0,43
JS90 1,6-03 Smart+	R80	1,6	15	110	G ³ / ₄	0,25
JS90 2,5-02 Smart+	R100****	2,5	15	110***	G ³ / ₄	0,43
JS90 2,5-03 Smart+	R80	2,5	15	110	G ³ / ₄	0,25
JS90 2,5-G1-02 Smart+	R100****	2,5	20	130	G1	0,57
JS90 4-02 Smart+	R100****	4	20	130	G1	0,53

Counter version IP68 on request

*) Water meters designs:

- 02 – eight-barrel counter, brass housing, water meter preequipped for installation of: radio module for communication in the Wireless M-Bus, impulse module and M-Bus module
- 03 – 8-barrel counter, composite body (for JS 1,6 and JS 2,5, length 110 mm, R100 for cold water and R80 for hot water)

Ti/Ir – with a pointer for optical or induction reading with an APT-WMBUS-NA-1 universal module

**) Special design of water meters available on request:

- 02-5 – with hard bearings (water meters for warm water circulation systems)

***) The length of 115 or 80 mm available on request (for JS 2,5 and JS90 2,5 – brass housing)

****) On request

Product features

- Resistant to strong external magnetic field
- Preequipped for installation of: radio module for communication in the Wireless M-Bus, impulse module and M-Bus module
- Readings reliability – fulfils the newest metrological requirements of MID
- Easy reading of the water meter counter
- Hermetic counter (with increased tightness) resistant to steaming
- Counter mechanism with blockade against multiple rotating, at rotation angle more than 360°
- Protection against mechanical tampering
- Protection limiting the results of water freezing
- Outlet port of water meter housing suitable for optional installation of a return valve
- Double-sided rotor bearing

JS-NK | JS-NKP

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Application

For measuring the flow and volume of water with a temperature up to 30°C or 50°C, or warm water with a temperature up to 90°C in the closed-circuit system with the full flow of the flux, and on the maximum working pressure up to 16 bar (PN16). Suitable for installation in the horizontal hoses (pipelines) with the counter directed upwards (**H**) and in vertical or horizontal hoses with the counter directed sideways (**V**). Water meters are equipped with impulse transmitter (JS-NK) or adapted for installation of the transmitter (JS-NKP). In standard version they are equipped with five-barrel counter (IP65), antimagnetic protection SN + and brass housing. Possible operation of water meters in the systems of remote readings transfer.



Measurement range (MID):

- Cold water **R100 - H; R50 - V**
- Warm water **R80 - H; R40 - V**



Table 4. Basic technical data

Type	Q ₃ [m ³ /h]	DN [mm]	Length [mm]	Connection	Weight [kg]	Impulse value NK [dm ³ /imp.]	
						Standard	On request
WATER METERS for cold water							
JS 1,6-XX*	R100	1,6	110	G _{3/4}	0,65	10	0,25; 1; 2,5 25; 100 250; 1000
JS 1,6-03-XX*	R80	1,6	110	G _{3/4}	0,47		
JS 2,5-XX*	R100	2,5	110***	G _{3/4}	0,65		
JS 2,5-03-XX*	R80	2,5	110	G _{3/4}	0,47		
JS 2,5-G1-XX*	R100	2,5	130	G1	0,75		
JS 4-XX*	R100	4	130	G1	0,75		
WATER METERS for warm water**							
JS90 1,6-XX*	R80	1,6	110	G _{3/4}	0,65	10	0,25; 1; 2,5 25; 100 250; 1000
JS90 1,6-03-XX*	R80	1,6	110	G _{3/4}	0,47		
JS90 2,5-XX*	R80	2,5	110***	G _{3/4}	0,65		
JS90 2,5-03-XX*	R80	2,5	110	G _{3/4}	0,47		
JS90 2,5-G1-XX*	R80	2,5	130	G1	0,75		
JS90 4-XX*	R80	4	130	G1	0,75		

Counter version IP68 on request

*) **XX** – Water meters designs – where -XX stands for:

- NK** – Water meter with pulse transmitter with standard cable length of 2 linear metres – max. 10 m – remote transmission of volume counting
- NKP** – Water meter adapted for installation of pulse transmitter
- 03-NK** or -**03-NKP** – five-barrel counter, composite body (concerns JS1,6 and JS2,5 with the length of 110 mm, R80 for cold or warm water)

**) Special design of water meters available on request:

- S** – with hard bearings (water meters for warm water circulation systems), not applicable to design 03

***) The length of 115 or 80 mm available on request (for JS 2,5 and JS90 2,5 – brass housing)

Product features

- Readings reliability – fulfils the newest metrological requirements of MID
- Adapted to operation in AMR systems
- Easy reading of the water meter counter
- Hermetic counter (with increased tightness) resistant to steaming
- Counter mechanism with blockade against multiple rotating, at rotation angle more than 360°
- Protection against mechanical tampering
- Protection limiting the results of water freezing
- Double-sided rotor bearing
- Outlet port of water meter housing suitable for optional installation of a return valve