

Protection limiting the results of water freezing in form of a special formed sealing plate

ADVANTAGES AND FEATURES

- Resistance to strong, external magnetic field - currently the best protected dry water meter against influence of the external magnetic field on the market. The resistance to the influence of the external magnetic field is above the requirements of the norm PN-EN 14154
- Remote readings - water meter adapted to the assembly of the RF frontend for the communication in standards like Wireless M-Bus or pulse communication without interference into the water meter both as during the first installation and as the operation
- Possibility of alarm signalling - a water meter with RF frontend has the possibility of signalling e.g. Dismantling of rupture of the frontend, work interferences of the frontend, retrograde flow, leakage, etc.
- Metrological properties - fulfilment of newest metrological requirements MID
- Indication reliability by:
 - Division of the water meter into the wet part measuring body and the dry part with counting mechanism
 - Solid and tested and simultaneously permanently improved construction
 - High service life
- Easy reading by:
 - Hermetic counting resistant to fogging
 - Legible digits on the barrels in two colours, enabling the accurate reading
 - Counter rotation within 358°
- Protection against mechanical external interference - by the strengthened construction of the counting mechanism housing

COMPATIBILITY WITH NORMS AND REGULATIONS

- Directive 2004/22/EC of The European Parliament and the Council of Europe dated on March, 31st, 2004 regarding measuring instrument
- PN-EN-14154:2005 - water meters, part 1 ÷ 3
- OIML R49:2004 and 2006 - water meters intended to measurement of cold drinking water and of hot water
- Certificate of analysis, type WE - cold water number SK09-M1001-SMU007, hot water number SK09-M1001-SMU009, hot water R100 number TCM 142/11-4832
- Classification of environmental, climate and mechanical conditions: Class B (ref. PN-EN 14154-3:2005:A1)
- Classification of mechanical environment conditions: Class M1 (ref. Polish Regulation JoL. 2007.3.27)
- Classification of electromagnetic environment conditions: Class E1 (ref. Polish Regulation JoL. 2007.3.27)

All materials used during the production of water meter Smart have proper Hygienic Clearance allowing the product to contact with the drinking water.

TECHNICAL DATA

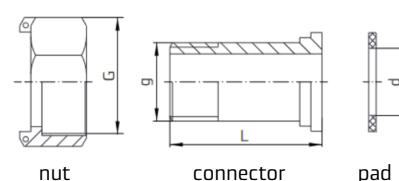
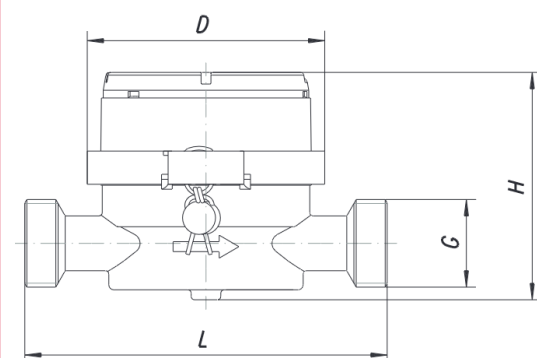
Parametr			JS 1,6-02 JS 1,6-03 JS90 1,6-02* JS90 1,6-03	JS 2,5-02 JS 2,5-03 JS90 2,5-02* JS90 2,5-03	JS 2,5-G1-02 JS90 2,5-G1-02*	JS 4-02 JS90 4-02*		
Nominal diameter			DN	mm	15		20	
Continuous flow rate			Q ₃	m ³ /h	1,6	2,5		4
Max flow rate			Q ₄	m ³ /h	2	3,125		5
Indirect flow rate	Cold water	H R100 V R50	Q ₂	dm ³ /h	25,6 51,2	40 80		64 128
	Hot water	H R80 or R100** V R40 or R50**			32 or 25,6** 64 or 51,2**	50 or 40** 100 or 80**		80 or 64** 160 or 128**
Minimum flow rate	Cold water	H R100 V R50	Q ₁	dm ³ /h	16 32	25 50		40 80
	Hot water	H R80 or R100** V R40 or R50**			20 or 16** 40 or 32**	31,25 or 25** 62,5 or 50**		50 or 40** 100 or 80**
Starting flow			-	dm ³ /h	6	8		15
Ratio Q ₂ /Q ₁			-	-	1,6			
Temperature class (nominal working temperature)			-	-	T30/T90			
Resistance classes to flow profiles			-	-	U0, D0			
Indication range			-	m ³	105			
Indicaton correctness			-	m ³	0,00005			
Max pressure			P _{max}	MPa	1,6			
Max pressure loss for Q ₃			Δp	kPa	63			
Permissible boundary error at the range: Q ₂ ≤Q≤Q ₄			ε	%	± 2 for cold water ± 3 for hot water			
Permissible boundary error at the range: Q ₁ ≤Q≤Q ₂			ε	%	±5			
Connector thread			G	cal	G¾		G1	
Height			H	mm	68,5			
Length			L	mm	110	110	130	130
Diameter			D	mm	72			
Mass (without connection elements)			-	kg	0,5	0,5	0,6	0,6

Execution 02 - eight-barrel counter, brass body, water meter adapted to the assembly of radio, impulse and M-Bus modules

Execution -03- eight-barrel counter, composite body (applies to JS 1,6 and JS 2,5; length 110mm, R100 for cold water, R80 for hot water)

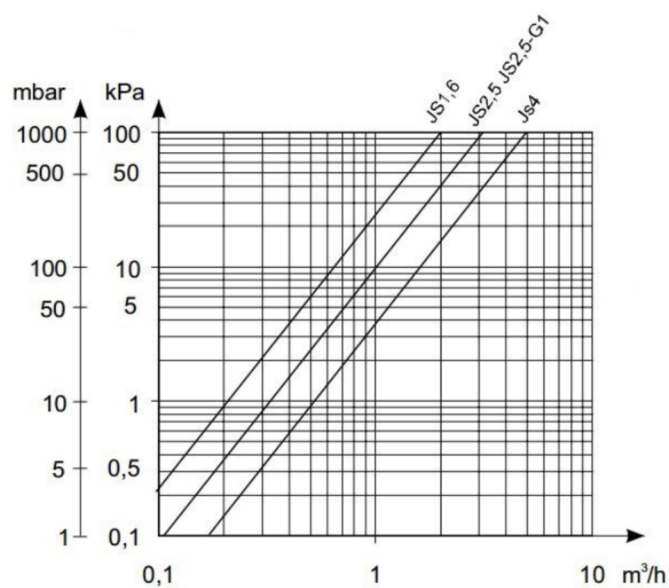
*The 02-S version of the water meter is also available - with hard bearings (water meters for hot water circulation systems).

**On request only version - 02 (brass body)

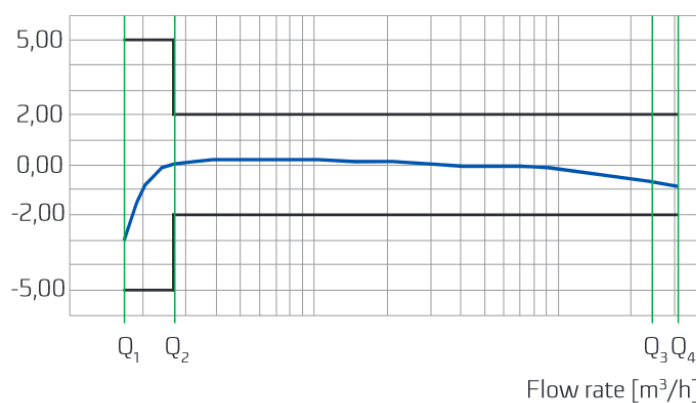


DN	G	g	D	L
	inch	inch	mm	mm
15	³ / ₄	1/2	17	37,5
20	1	3/4	23	45,6

PRESSURE LOSS CHART



TYPICAL ERROR CHART



CONTACTS

APATOR POWOGAZ CZECHIA s.r.o.

Havlíčková 919/24

787 01 Šumperk

Czech Republic

Tel.: +420 583 718 261

E-mail: prodej@metra-su.cz

Web: www.apator.cz

Your distributor:

The manufacturer reserves the right to change design, technical specification and accessories without prior notice.

K2025/10a