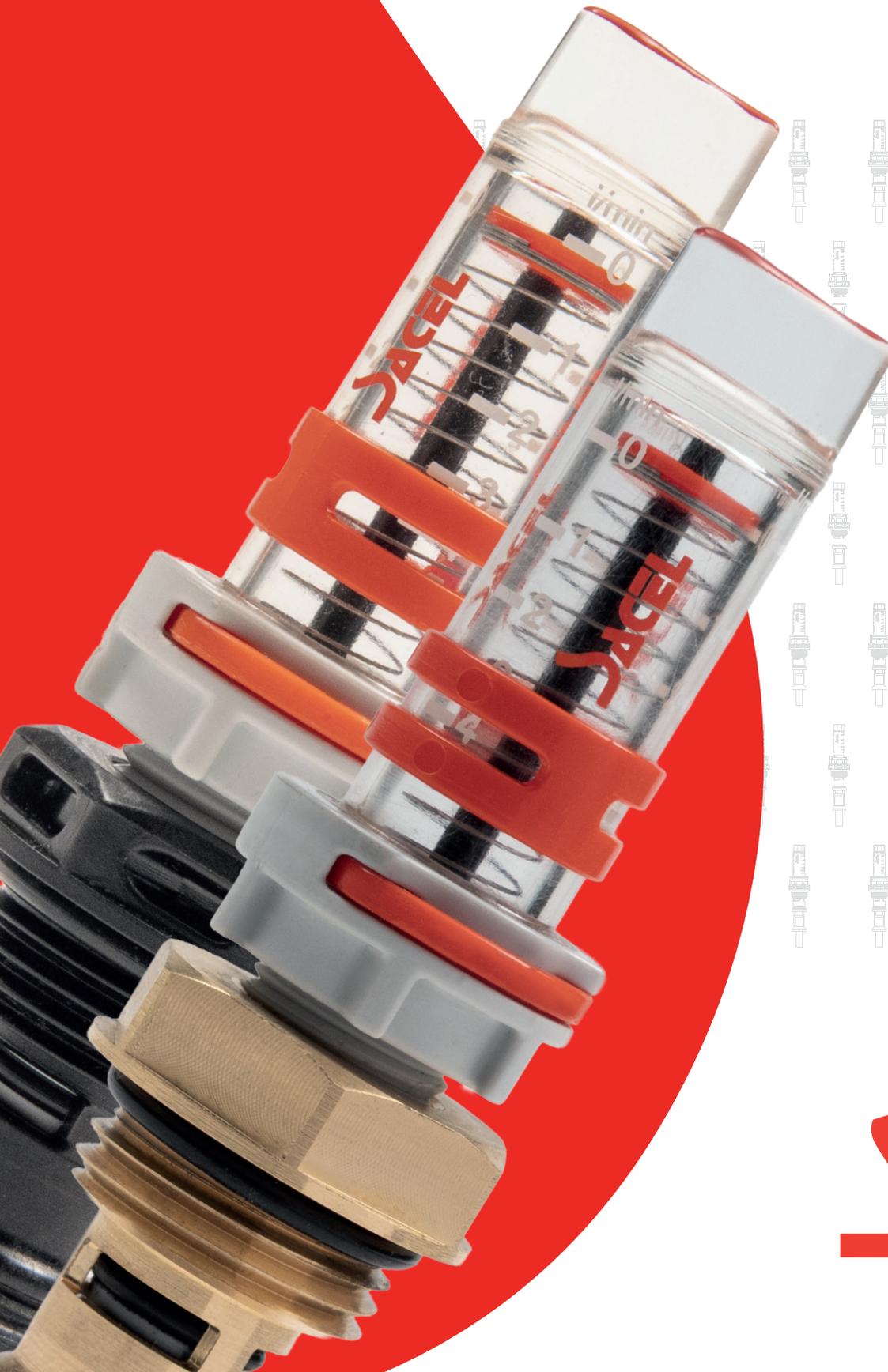


PLUMBING

Made for plumbing. Built on precision.

Decades of automotive discipline
behind every component and process.



JACEL
FLUID

The company



Vision

To be the partner of choice in the plumbing and heating market, recognized for our reliability, quality solutions, and ability to adapt quickly to customer needs.



Sacel s.r.l. is a multinational company specializing in the production of automotive components, with extensive industrial experience and manufacturing facilities in **Italy**, **Slovakia**, and **Mexico**.

Sacel Fluid is the division of **Sacel s.r.l.** dedicated to the development and production of high-precision components for radiant systems and plumbing and heating applications.

Designed in Italy and manufactured in our own facilities, our products deliver reliable, high-performance solutions backed by certified processes, advanced technologies, and solid industrial know-how gained in the automotive sector. This extensive experience and expertise have enabled us to enter new markets, offering products characterized by superior quality, precision, and long-term durability.

SACEL FLUID

Technology, precision and industrial expertise.

Mission

— To design and manufacture plastic and metal components through efficient, ever-evolving production processes, ensuring competitiveness through automation, standardization, and flexible technologies, with a strong customer-centric approach.

Competencies

R&D and Product Development

Sacel is highly attentive to customer needs and industry trends, aiming to offer innovative products optimized for performance and reliability, while delivering tailored solutions for our clients.

Manufacturing Technologies

Metal Stamping:

Production of metal components in steel, copper or its alloys, titanium, or aluminum using progressive die stamping.

Injection Moulding and Overmoulding:

Production of technical or aesthetic plastic components, with or without metal inserts, using high-performance polymers (PP, PBT, PA, PA12, PPS, PEEK).

Laser Welding:

Welding of metal components using laser technology, which allows for parts to be joined through localized heating with no thermal deformation.

Manual or Automated Assembly:

We perform component assembly for low volumes using semi-automated methods, or fully automated processes for high-volume production. In both cases, component quality is always guaranteed by our certified processes.

Quality Certifications

The Sacel Quality Management System for the production of automotive components is certified according to the following standards: ISO 9001, IATF 16949, ISO 14001, ISO 45001.



Flowmeter range

Flowmeter with POLYMER BODY

Code	Reading scale
10002-00FN	0-2.5 l/min
10001-00R01FN	0-5 l/min
10004-00FN	0-8 l/min



Flowmeter with BRASS BODY

Code	Reading scale
10011-00FN	0-2.5 l/min
10010-00FN	0-5 l/min
10013-00FN	0-8 l/min



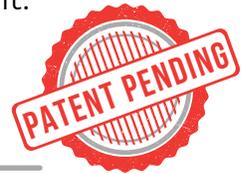
* **Note:** This product can be customized. Other versions can be developed upon request.

Product benefits

Polymer flowmeter



- The product is designed to ensure a high Kv value and compliance with the standards required by the market.
- **The special shape of the gasket** combines good radial stiffness with controlled axial deformability, allowing it to compensate for dimensional tolerances and ensure fluid sealing with the contacting element.

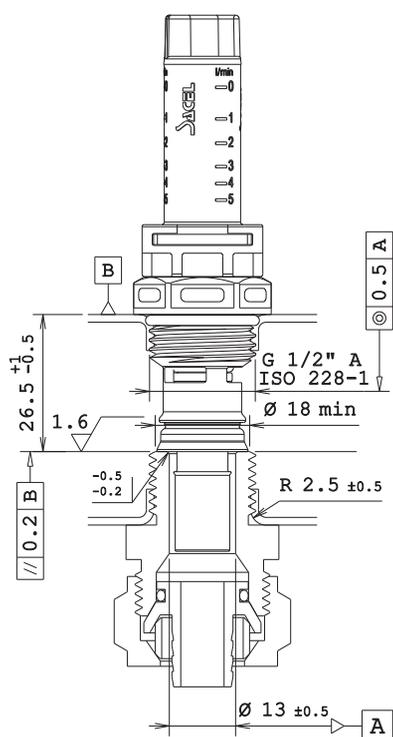


- The transparent indicator is fully removable after closing the flowmeter, allowing maintenance or inspection operations to be carried out safely, even in the presence of static pressure in the manifold.
- A memory ring allows the set flow rate and the last adjustment made to be recorded accurately, facilitating any restoration or verification operations.
- The flowmeter is designed to fit both polymer and metal manifolds, ensuring high installation compatibility across multiple configurations and positions.
- Different reading scales are available in l/min and gpm, with the possibility of specific customizations.
- The careful design of the fluid path ensures a smooth and stable inlet flow, providing extremely precise and reliable flow rate readings.
- The use of high-quality raw materials guarantees product robustness and long service life.
- Recommended tightening torque: **10 Nm**, suitable for both automated machine installations and manual assembly.



Technical datasheet

FLOWMETER FOR SUPPLY MANIFOLD



The manifold with the installed flowmeter must always be positioned on the supply side, while the shut-off valve must be mounted on the return line of the connected hydraulic system. An incorrect placement of the manifold can cause system anomalies, preventing the proper functioning of the flowmeters, which must operate exclusively in suction mode.

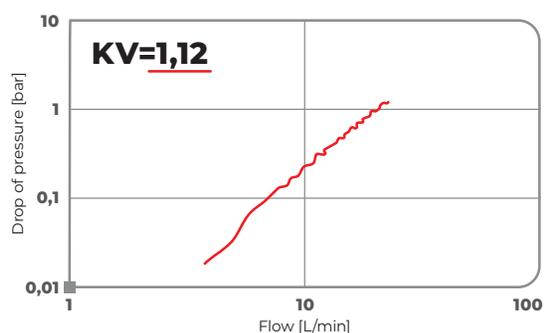
Maximum allowable tolerance for the manifold height: $\pm 0,3\text{MM}$

DN	G	
15	1/2"	24

With plastic body

P op Max	6 bar
OTR Max	-5 + 60°C

Drop of pressure



The KVS value is influenced by the type of counterpart used and the geometric configuration of the distributor. For this purpose, you will receive a drawing from us with the necessary connection dimensions.

Features

- 1_Quick and precise adjustment without the use of diagrams, tables, or measuring devices
- 2_The flow is displayed directly in l/min
- 3_Shut-off Control Valve with Removable Indicator During Operation
- 4_Mounting position can be either horizontal or vertical.

Performance

Fluid accepted	Water & glycol solutions
% glycol max	50%
Working temperature	-5°C + 60°C
Max temperature	90° C at 3 bar
Working pressure	0-6 bar
Max check pressure	10 bar at 20° C
Bursting pressure	> 30 bar
Flow rate range	0-5/min
Accuracy of measureme	+/- 10% of the final value
Max torque to adjust the flow rate	>0.1 Nm
Max tightening torque on the manifold	Max 10 Nm

Kv flow coefficient

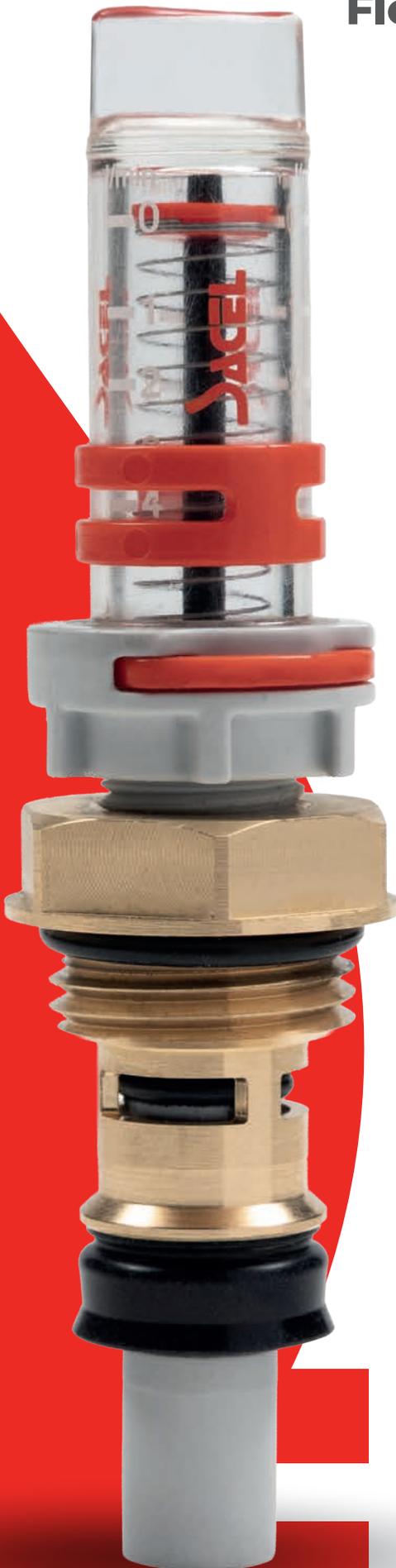
Kv flow coefficient with flow	1.12 KVS (m³/h)
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Materials

**POM PA12 | AISI302 | PA 6.6 GF30%
PA9T GF50 | EPDM**

Product benefits

Flowmeter with brass body



- The product is designed to ensure a high Kv value and compliance with the standards required by the market.

- **The special shape of the gasket** combines good radial stiffness with controlled axial deformability, allowing it to compensate for dimensional tolerances and ensure fluid sealing with the contacting element.



- The transparent indicator is fully removable after closing the flowmeter, allowing maintenance or inspection operations to be carried out safely, even in the presence of static pressure in the manifold.

- A memory ring allows the set flow rate and the last adjustment made to be recorded accurately, facilitating any restoration or verification operations.

- The flowmeter is designed to fit both polymer and metal manifolds, ensuring high installation compatibility across multiple configurations and positions.

- Different reading scales are available in l/min and gpm, with the possibility of specific customizations.

- The careful design of the fluid path ensures a smooth and stable inlet flow, providing extremely precise and reliable flow rate readings.

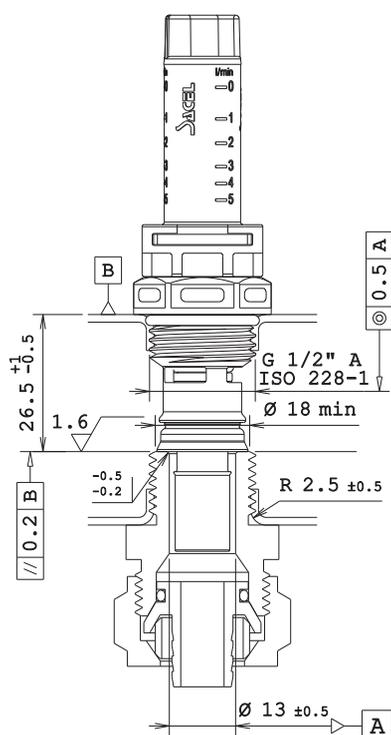
- The use of high-quality raw materials guarantees product robustness and long service life.

- Recommended tightening torque: **20 Nm**, suitable for both automated machine installations and manual assembly.



Technical datasheet

FLOWMETER FOR SUPPLY MANIFOLD



The manifold with the installed flow meter must always be positioned on the supply side, while the shut-off valve must be mounted on the return line of the connected hydraulic system. An incorrect placement of the manifold can cause system anomalies, preventing the proper functioning of the flowmeters, which must operate exclusively in suction mode.

Maximum allowable tolerance for the manifold height: $\pm 0,3\text{MM}$

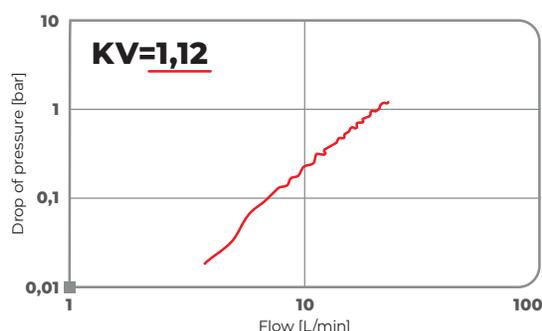
DN	G	
15	1/2"	24

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P op Max	6 bar
OTR Max	-5 + 60°C



Drop of pressure



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Flow rate range	0-5/min
Accuracy of measureme	+/- 10% of the final value
Max torque to adjust the flow rate	>0.1 Nm
Max tightening torque on the manifold	Max 20 Nm

Kv flow coefficient

Kv flow coefficient with flow	1.12 KVS (m³/h)
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Materials

**POM PA12 | AISI302 | PA 6.6 GF30%
BRASS | EPDM**

Manufacturing sites

SACEL - OZEGNA

Località Risera (TO) Italy
R&D - Tool Shop

SACEL SAN GIORGIO CANAVESE

Via del Paschetto (TO) Italy
Production Plant

SACEL EST

125 00401 Kosice - Juzna Trieda, - Slovak Republic
Production Plant

SACEL MEX

76120 Querétaro - Acceso 3, N42- Nave 2 Fracc.
Industrial Benito Juárez - Mexico
Logistic plant



fluid@sacel.it



+39 0124 45 29 911



www.sacelfluid.com

| www.sacelgroup.com



Note



A series of horizontal grey lines for writing, spanning the width of the page. The lines are evenly spaced and extend from the left margin to the right edge of the white area.





JACEL FLUID

a part of

JACEL
GROUP

