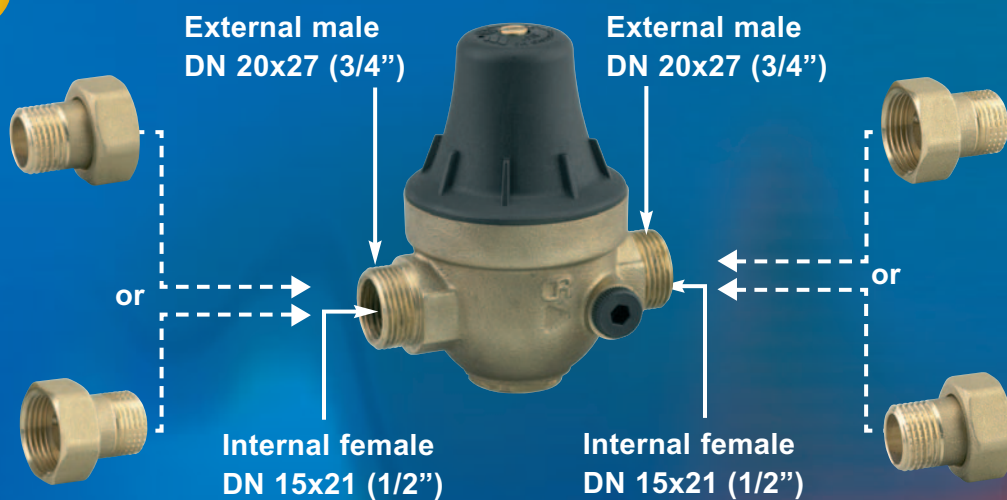


PRECISIO M2 : multi-threaded water pressure reducing valve

New



Available in FF
DN 20x27 (3/4")



Brass series
also available in
multi-threaded
and in FF 3/4"

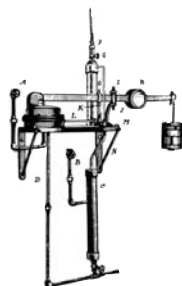


- Machine made directly with multi-diameters
- Maximum practicality: 2 reversible connectors with free nuts
- 16 possible connectors WITH free nuts
- NF EN1567 approved

- Stainless steel seat
- Upstream maximum pressure 25 bar
- ACS sanitary conformity (F)
- Functional without maintenance
- Resistant to scale and impurities



A Division of Watts Water Technologies Inc.

WATTS, inventor of the pressure reducing valve**1876**

Invention, construction, and commercialisation of the first pressure reducing valve.

It was somewhat complicated, took up a lot of spaces (nearly 2 meters high), but it worked.

1930

A half century had already gone by.

Everything was designed – the principle of the direct action pressure reducing valve with diaphragm operating the flap valve, the interior shape, and general look.

From this date, most pressure reducing valves made throughout the world were inspired by or copied this format.

1999

WATTS INDUSTRIES manufactures and commercialises Precisio.

Simple operating, performances, and reliability that became references in the field.

Water economy, acoustic comfort, normalised flow.

Precisio is interchangeable with most market appliances.

2007

WATTS INDUSTRIES' new innovation with a **directly multi-threaded** pressure reducing valve.

NF EN1567 approved (multi-pipe threaded DN15-DN20 without connection).

ACS sanitary conformity.

Delivered with 2 multi-threaded connectors - turning screws.

Compatibility and maximum practicality with all installations.

INOX seat and a special anti-corrosion brass body (DZR brass).

Accepts all types of water, even strongly calcified water, without prior filtering. Precise and long-lasting functioning.

Domains of application :

The PRECISIO M2 pressure reducing valve automatically ensures the containment of downstream pressure at the value fixed for the flow as at zero flow.

It will respect the usage norms for household electrical appliances and plumbing fixtures.

It also conforms to all domestic, collective, or industrial water installations.

Advantages :

- ⇒ Particularly adapted to water installations in apartments or pavilions, PRECISIO M2 brings comfort by lowering the noise of water circulation and respecting acoustic norms.
- ⇒ Preadjusted to 3 bar in the factory, it protects the installation, facilitates the adjustment of mixers and moderators, and decreases the rams and helps to avoid cracks and vibrations in the piping.
- ⇒ Thanks to its weak losses of flow, it helps to obtain normal flow during simultaneous pumping.
- ⇒ PRECISIO M2 maintains stable downstream pressure, even with variations in upstream pressure (downstream pressure varies at least 10% of the upstream pressure variation in conformation to the norm).
- ⇒ Its use is an economic guarantee: 30% of the water used in a home is heated, and less pressure is less water used, thus less energy consumed.
- ⇒ Precisio M2's unique conception makes it resistant to scale or impurities. It does not require any maintenance and has no risk of blockage.
- ⇒ Made in France (factory certified ISO 9001:2000), tested by the CSTB, and NF approved by AFNOR, PRECISIO M2 conforms to regulations and benefits from a Sanitary Conformity Attestation (ACS).
- ⇒ PRECISIO M2's upper cap is made of PA6.6 fiberglass and reinforced high resistance polymer. This synthetic material presents exceptional mechanical resistance, and it is largely used in water meters and valves. 100% recyclable, PA6.6 is particularly appreciated by leading-edge industries for its endurance, insulation, and total absence of corrosion.

Performances :


Control is ensured by the diaphragm attached to a yoke valve.

The valve and the diaphragm, largely dimensioned, allow precise adjustment from 1.5 to 5.5 bar.

The calibration adjustment is reliable and precise thanks to the screw-and-nut system.

PRECISIO M2 can be installed in any position, two 1/4" lateral pressure gauges facilitating its installation.

The Precisio M2 body is in non-dezincifiable brass (DZR), which protects it against risk of corrosion.

Finally, its performances conform to norm NF EN1567, and PRECISIO M2 is accepted under the  trademark.

Performance

Flow : During water flow, water pressure exercised on the diaphragm decreases, which allows the spring to relax. The entire disc-yoke assembly moves towards the bottom to allow the water to pass.

Flow stoppage : When water flow stops, the downstream pressure pushes on the diaphragm again, the spring goes back to its initial position, which leads to the valve closing, stopping water from flowing freely.

A stainless steel spring **1** with large turns and high sensitivity: it guarantees precise adjustment. The pressure control performs within a range of 1.5 to 5.5 bar.

A diaphragm **2** and a high temperature yoke **3** : resistant to high temperatures (up to 80°C).

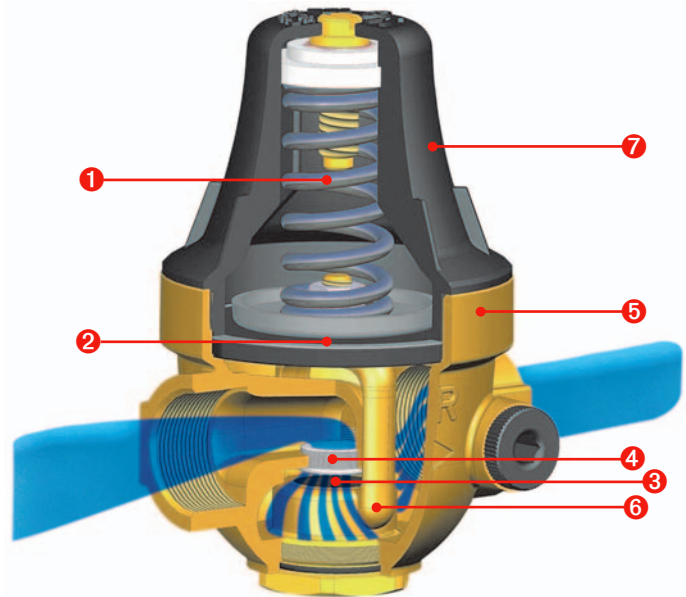
A stainless steel seat **4** : an exclusivity that protects against the wear caused by water. A longevity guarantee.

A non-dezincifiable (DZR) brass body that is cast in one piece **5** : this metal is sturdy and resistant to corrosion, and responds to new sanitary norms on the compatibility of materials in contact with potable water.

A disc-yoke assembly **6** : a brass movable part cast in one piece, the yoke including a large-sized valve **3** authorising performances above the norm's demands.

PRECISIO M2's upper valve **7** is in PA6.6 fiberglass and reinforced high resistance polymer.

This synthetic material is 100% recyclable. There is no contact between the water and the pressure reducing valve.



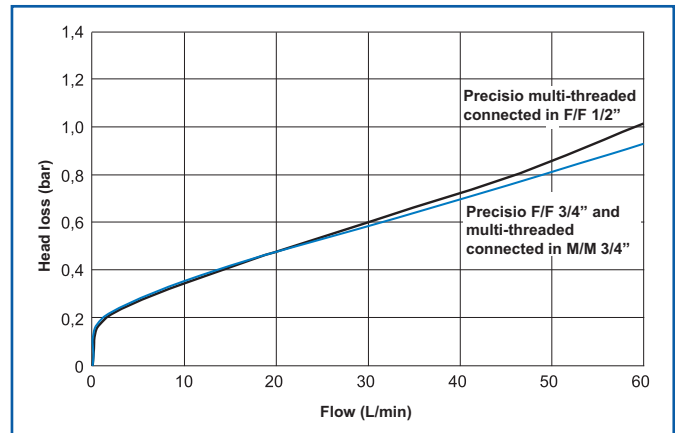
Construction

Materials	
Body	Brass CuZn35As
Cap	Brass CuZn40Pb3
Cover	PA6.6+FV or matted brass
Diaphragm	NBR 65 shore canvas
Yoke	Brass CuZn39Pb2
Valve	NBR 80 shore
Adjustment screw	Brass CuZn40Pb3

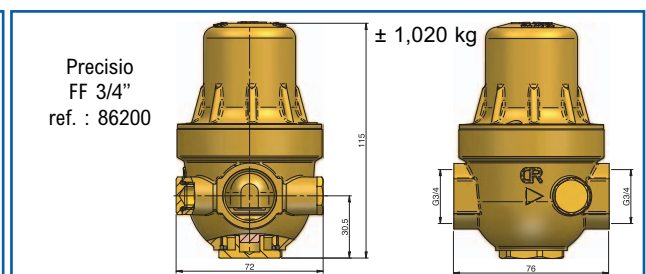
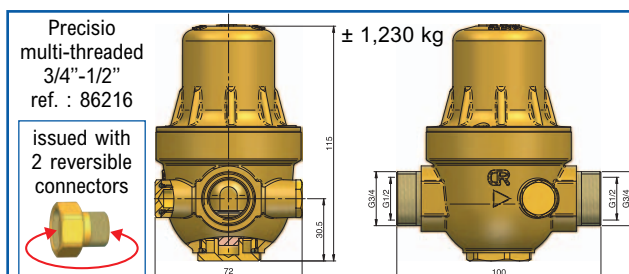
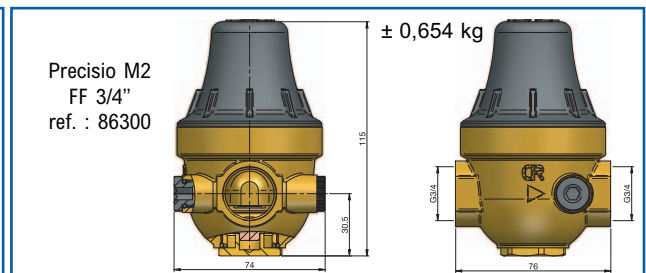
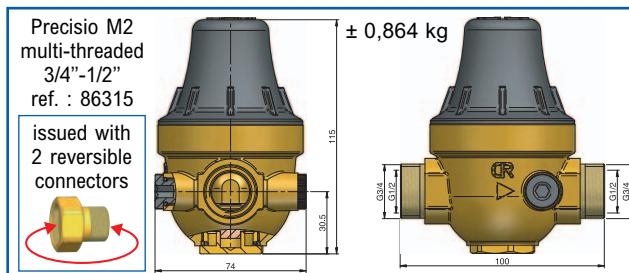
Technical characteristics

Description	
Maximum upstream pressure	25 bar
Maximum temperature	80°C
Adjustable downstream	from 1.5 to 5.5 bar
Factory pre-adjusting	3 bar

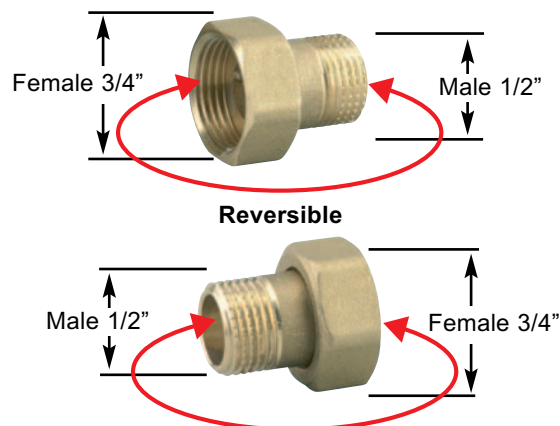
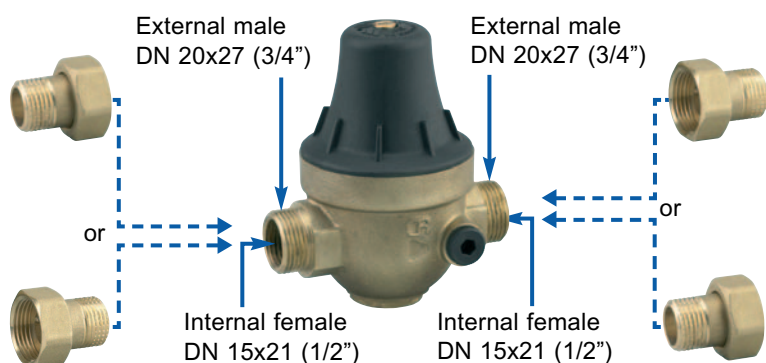
Flow diagram - Pressure drop :



Dimensions and weights



PRECISIO multi-threaded (composite or brass cover) is issued with 2 reversible multi-threaded connectors with free nuts.



*Ref. 86315
16 connection
possibilities*

	Male DN 15 - 1/2"	Male DN 20 - 3/4"	Female DN 15 - 1/2"	Female DN 20 - 3/4"
DOWNSTREAM				
UPSTREAM				
Male DN 15 1/2"	± 0,864 kg 154 mm approx.	± 0,796 kg 127 mm approx.	± 0,796 kg 127 mm approx.	± 0,864 kg 143 mm approx.*
Male DN 20 3/4"	± 0,796 kg 127 mm approx.	± 0,729 kg 100 mm approx.	± 0,729 kg 100 mm approx.	± 0,796 kg 117 mm approx.*
Female DN 15 1/2"	± 0,796 kg 127 mm approx.	± 0,729 kg 100 mm approx.	± 0,729 kg 100 mm approx.	± 0,796 kg 117 mm approx.*
Female DN 20 3/4"	± 0,864 kg 143 mm approx.*	± 0,796 kg 117 mm approx.*	± 0,796 kg 117 mm approx.*	± 0,864 kg 132 mm approx.*

* measured in relation to the support surface of the piping nozzle on which the joint is going to apply.

References and summary table (correspondences)

Former range Article Codes		PRECISIO M2 composite cover <i>New range</i>		PRECISIO BRASS NEW CONNECTORS	
		New code	Description	New code	Description
86200	replaced by	86300	Precisio M2 FF 3/4" (issued without connector)	or 86200 kept	Precisio FF 3/4" (issued without connector)
86201	replaced by	86315	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors	or 86216	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors
86210	replaced by	86315	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors	or 86216	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors
86211	replaced by	86315	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors	or 86216	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors
86215	replaced by	86315	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors	or 86216	Precisio M2 multi-threaded 3/4"-1/2" + 2 connectors

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