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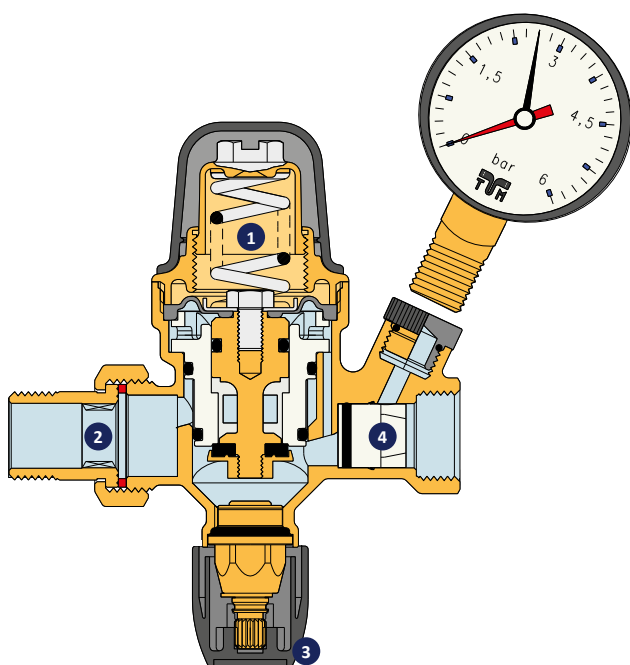
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Tiemme automatic filling unit art. 3160K is a device consisting of a pressure reducing valve with a compensated seat (1), inlet filter (2), shut-off cock (3), and a check valve (4), which is installed on the water supply pipe in heating systems, **it has the main function to keep the system pressure stable, at a set value, by automatically restoring any missing water.** A correct installation of a filling unit provides for the protection of the device by means of a filter with a suitable filter mesh, a check valve or disconnecter depending on the dangerousness of the water and the possibility of intercepting it through ball valves in order to carry out the proper maintenance operations. After installation, during filling or refilling, the power supply will stop when the calibration pressure is reached.



OPERATION

The fluid coming from the aqueduct enters the filling unit art. 3160K and loads up the system until the set pressure is reached.

When the system is under pressure, the actuator closes and does not allow fluid to flow, the check valve prevents a backflow into the duct.

The filling unit automatically reintegrates the water into the system if the pressure drops below the value until the set pressure is restored.

INSTALLATION

The installation of the filling unit art. 3160K can be carried out on both vertical and horizontal pipes.

MAINTENANCE

To clean and check or replace the inner cartridge, shut off the unit with an upstream shut-off valve, adjust the calibration pressure to a minimum, remove the upper screw, being careful with the spring and ring that may come out, close the shut-off cock to the end of its stroke so as to remove the cartridge, to replace or clean it; pull out the filter for cleaning/replacement, open the shut-off tap completely and reassemble the parts. Recalibrate the unit to the set calibration pressure.

PRODUCT RANGE



3160K

Automatic filling unit

TECHNICAL SPECIFICATIONS

- Adjustment range: 1-6 bar (Factory setting 1.5 bar)
- Max. Inlet pressure: 16 bar
- Max operating temperature: 65°C
- Body material: Chrome plated brass CW617N
- Inlet: 1/2" M ISO 228
- Outlet: 1/2" (1/228")
- Pressure gauge: 1/4" F
- Supplied with pressure gauge

Code	Type	Price €	Unit/Box
317 0001	1/2"		1/10



3161

Automatic filling unit with double shut-off and non-return valve for closed circuit heating systems

TECHNICAL SPECIFICATIONS

- Adjustment range: 1-6 bar (Factory setting 1.5 bar)
- Max. Inlet pressure: 16 bar
- Max operating temperature: 65°C
- Body material: Brass CW617N
- Pressure gauge: 1/4" F
- Supplied with pressure gauge

Code	Type	Price €	Unit/Box
317 0007	1/2"		1/8
317 0008	3/4"		1/8

ACCESSORIES AND SPARE PARTS



3180C

Spare cartridge for pressure reducing valve 3180 and filling unit 3160K-3161

Code	Type	Price €	Unit/Box
318 0053	3180/ 3160K/3161		1/40



3170

Antifreeze filling unit

TECHNICAL SPECIFICATIONS

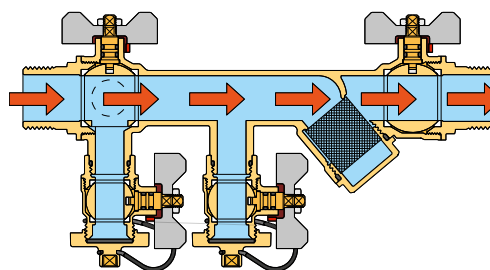
- Min operating temperature: -20°C
- Max operating temperature: +100°C
- Max operating pressure: 10 bar
- Body material: Brass CW617N
- Main line connections: 1" M ISO 228
- Anti-freeze connectors: 3/4" M ISO 228
- Includes filter with 350 µm mesh
- Supplied with polystyrene foam (EPS) insulation

Code	Type	Price €	Unit/Box
317 0002	1"		1/2

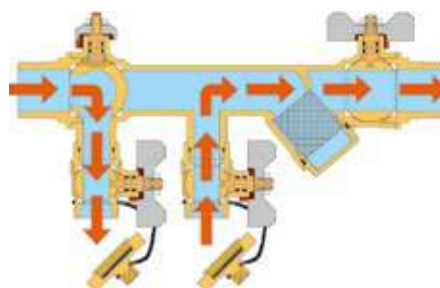
3170

OPERATION

NORMAL OPERATION



CHARGING OPERATION



01_B FILLING UNITS

WITH DISCONNECTOR

The filling unit art. 3163 is used to automatically fill and refill water in the closed-circuit heating system, allowing the pressure in the circuit to be regulated.

A filling unit is particularly useful for compensating the pressure drops due to the release of air from the circuit, which takes place through the air-release valves and deaerators.

Installed on the water supply pipe, it fills/refills until the desired pressure is reached (Pressure setting).

The filling unit is equipped with a BA-type disconnecter to prevent any flow reversals. Can be used to protect the water mains against the risk of contamination from water up to category 4 (in accordance with EN 1717).

For further details, please refer to Section 7A "Anti-pollution devices - introduction" of this catalog.

PRODUCT RANGE



3163

Compact automatic filling unit with BA-type disconnecter and insulation

TECHNICAL SPECIFICATIONS

- Adjustment range: 1.5 - 5.5 bar (Factory setting 1.5 bar)
- Max. Inlet pressure: 10 bar
- Max operating temperature: 30 (inlet) °C/ 65 (outlet) °C
- Body material: CW617N brass
- Connection threads: male ISO 7/1 (EN 10226)
- BA-type disconnecter in accordance with EN 1717

Code	Type	Price €	Unit/Box
317 0010	3/4"		1/4

COMPONENT DESCRIPTION



1. Adjustable pressure reducing valve.
2. Circuit pressure setting knob.
3. Backflow prevention device (BA-type according to EN 1717)
4. Straight tundish
5. Pair of shut-off valves.
6. Patented double pressure gauge.
7. Measuring plugs.
8. Insulation shell.

The water filling and treatment unit art. 3164 is used to automatically fill and refill the water in the closed-circuit heating system, allowing the regulation of the pressure in the circuit, as well as the water treatment of the system.

Installed on the water supply pipe, it fills/refills until the desired pressure is reached (Pressure setting).

The filling unit is equipped with a BA-type disconnecter to prevent any flow reversals. Can be used to protect the water mains against the risk of contamination from water up to category 4 (in accordance with EN 1717).

For further details, please refer to Section 7A "Anti-pollution devices - introduction" of this catalog.

In addition, it allows the water treatment of the heating system to be carried out, in accordance with the regulations in force.

Depending on the type of cartridge that is combined with the unit, it is possible to carry out the chemical-physical softening or demineralization treatment:



- **SOFTENING:** The softened water is poor in calcium and magnesium ions, the main ones responsible for incrustations (cartridge to be matched art. 3164CA).
- **DEMINERALIZATION:** Demineralized water (or deionized water) is water which the salt component was extracted from. It is characterized by its low electrical conductivity. It is ideal to prevent corrosion and lime deposits inside the circuit (cartridge art. 3164CD).

Installation takes a few simple steps and once the cartridge has run out, simply fill it with replacement granulates, without waste.

COMPONENT DESCRIPTION



1. Adjustable pressure reducing valve.
2. Circuit pressure setting knob.
3. Backflow prevention device (BA-type according to EN 1717)
4. Straight tundish
5. Pair of shut-off valves.
6. Electronic monitoring device.
7. Measuring plugs.
8. Adjusting the treatment percentage.
9. Demineralization/softening cartridge.
10. Insulation shell.



3164

Compact automatic water filling and treatment unit with BA-type disconnecter and insulation

TECHNICAL SPECIFICATIONS

- Adjustment range: 1.5 - 5.5 bar (Factory setting 1.5 bar)
- Max. Inlet pressure: 10 bar
- Max operating temperature: 30 (inlet) °C/ 65 (outlet) °C
- Body material: CW617N brass
- Connection threads: male ISO 7/1 (EN 10226)
- BA-type disconnecter in accordance with EN 1717

Code	Type	Price €	Unit/Box
317 0012	1/2"		1/1



3164CA

Water softener cartridge, including resin

Code	Type	Price €	Unit/Box
317 0014	for art. 3164		1/1



3164CD

Water demineralization cartridge, including resin

Code	Type	Price €	Unit/Box
317 0016	for art. 3164		1/1



3164RA

Resin refill cartridge for water softening

Code	Type	Price €	Unit/Box
317 0018	for art. 3164CA		1/1



3164RD

Resin refill cartridge for water softening

Code	Type	Price €	Unit/Box
317 0020	for art. 3164CD		1/1

01_B FILLING UNITS

WITH DISCONNECTOR AND WATER TREATMENT - ACCESSORIES AND SPARE PARTS



3163CA

Disconnecter unit cartridge

Code	Type	Price €	Unit/Box
317 0026	for art. 3163 - 3164		1/1



3163CC

Wrench for cartridge removal
disconnecter unit

Code	Type	Price €	Unit/Box
317 0022	for art. 3163 - 3164		1/50



3163CR

Wrench for pressure reducing
valve removal and disconnecter
unit cover cap

Code	Type	Price €	Unit/Box
317 0024	for art. 3163 - 3164		1/50

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