

# Pressure reducing valves **REDUFIX**



- Compact, preset adjustable pressure reducing valve.
- Outlet pressure setting range : 1,5 to 5 bar.
- Corrosion preventing DZR brass body.
- Female 1/4" pressure gauge connection.
- Maintenance free.
- Ideal for protecting electric water storage heaters and household appliances.



**WATTS**  
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A Division of Watts Water Technologies Inc.

**Use :**

REDUFIX is an ideal pressure reducing valve for sanitary water systems.

REDUFIX is designed for protecting single appliance like water storage heaters and household appliances.

It is directly fitted upstream of the appliance that you want to protect or to water circuit inlets that you want to protect (kitchen, bathrooms, garden piping etc.).

**Approvals :**

Wras (UK), ACS (F).

**Advantages :**

- Compact  
Takes up less space, easier to fit, It is at present the more unobtrusive underneath water heaters.
- Ready to install  
Factory preset,  
You can change the setting from 1,5 to 5 bar.
- Any position  
The REDUFIX can be fitted in any position.
- Robust  
Once fitted you can forget it. The REDUFIX does not require any special maintenance.
- Tried and tested reliability  
On the market for over 20 years, the REDUFIX is made at Fressenneville in France in our production unit ISO 9001 certified by BVQI.
- Silent  
The valve system design and types of seals used ensure operation with no vibration and no banging about.
- Specific discharge  
Discharge is appropriate to isolated appliances like washing machines or water heaters. It has a part in better thermostatic mixer control and controlled water consumption.
- Practical  
Its Female 1/4" pressure gauge outlet is located on the front and not under the valve.

**Why 3 bar presetting ?**

Because all features introduced by valve manufacturers are measured to 3 bar\*.

**Too high a pressure over 3 bar would result in accelerating water velocity in pipes with the risk of:**

- Creating water hammer,
- Washing off the grease on ceramic inserts making head and lever movement harder,
- Loosening limestone deposits in pipes causing ceramic inserts to break when taps are fitted with them,

- Causing water in electric water heaters to expand too quickly causing the valve of the safety valve unit to open prematurely leading to significant water consumption.

So the REDUFIX is factory preset at 3 bar.  
This safety guarantee has made REDUFIX a market success for over 20 years.

\* recommandation of French Association of Pumps and Taps Industries

Range REDUFIX	Presentation	Finish	Code ref.
F/F 1/2" (15x21)	single box	nickel plated	82000
M/F union nut 3/4" (20x27)	single box	nickel plated	82210
M/F union nut 3/4" (20x27)	under hull	nickel plated	82211
F union nut/M 3/4" (20x27)	single box	nickel plated	82215
M/M 3/4" (20x27)	single box	nickel plated	82110
M/M 3/4" (20x27) and F/F 1/2" (15x21)	single box	nickel plated	82007
Compression fitting DN 15 for copper pipe	single box	nickel plated	82114
Compression fitting DN 22 for copper pipe	single box	nickel plated	82115

### Technical specifications :

- Pressure reducing valve with cloth diaphragm, can be set from 1,5 to 5 bar.
- Corrosion preventing DZR brass body.
- Diaphragm and seals EPDM & NBR.
- Slotted adjusting screw that can be turned with a flathead screwdriver.
- Factory preset (4 bar at zero discharge for 3 bar working).
- Female 1/4" pressure gauge outlet.
- Maintenance free robust appliance.
- Ideal for protecting electric water storage heaters and household appliances (washing machine, dishwasher, ...).
- 15 bar max inlet pressure.

### Materials :

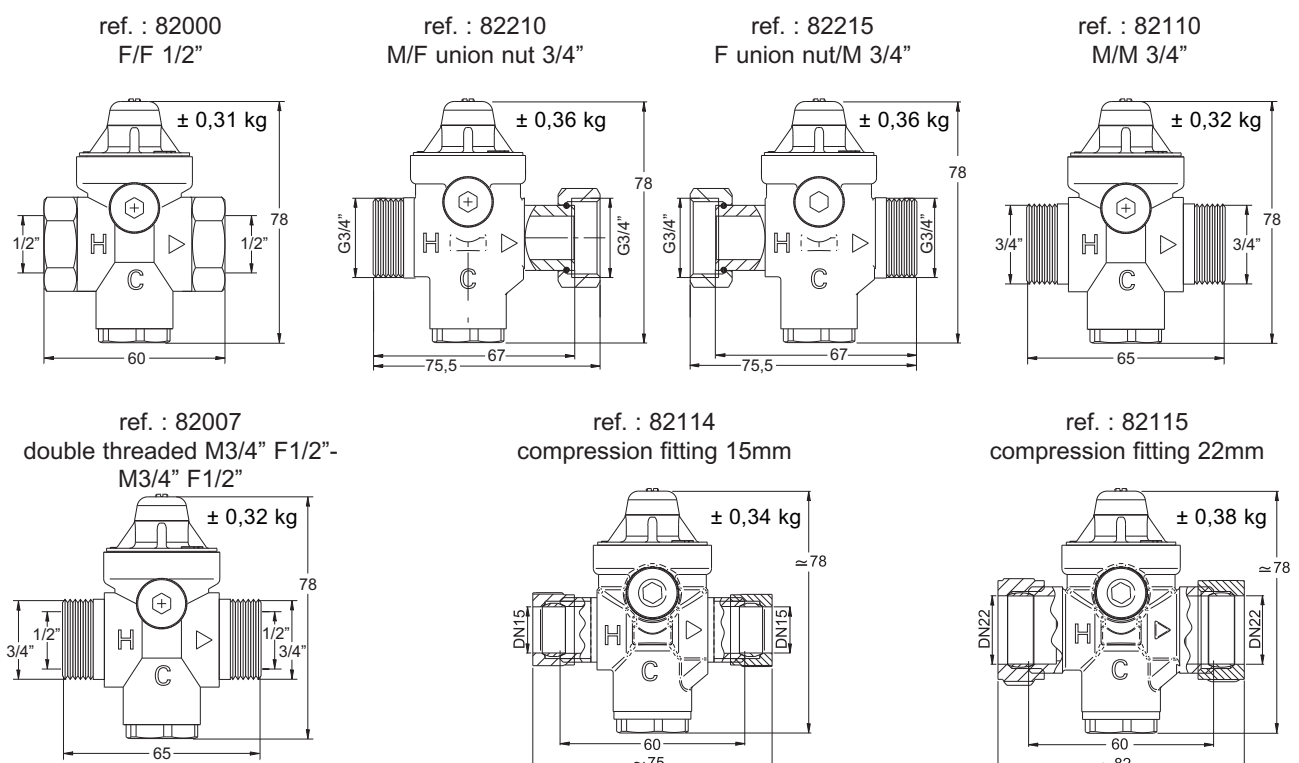
description	material
Body	brass DZR CW602N
Finish	nickel plated
Spring	stainless steel
Piston	PSU (polysulfone polymer)
Diaphragm and seals	EPDM & NBR
Head	brass CW617N
Cap	brass CW617N
Plug for gauge connection	P.A.

### Recommendations / installation :

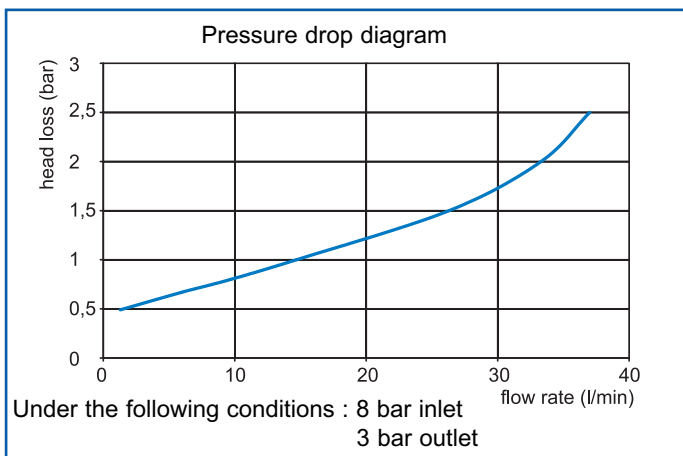
- Rinse the upstream pipes carefully to remove oakum, teflon, weld spatter, grit etc., before fitting the REDUFIX.
- Fit the REDUFIX to the inlet of the water circuit that you want to protect (kitchen, bathrooms, garden piping etc.).
- The setting can be adjusted between 1,5 and 5 bar.  
Screw or unscrew the setting screw on the top of the appliance with a screwdriver to raise or lower this setting.  
After opening then closing a valve on the downstream circuit, check the pressure on the pressure gauge.
- You do not have to comply with any special position.
- The REDUFIX technical specifications do not change whichever operating plan is used.
- The hexagonal plug opposite the head can be taken off for blowing down or draining.

The REDUFIX requires no special maintenance, nonetheless we recommend that it is fitted in an accessible place.

### Dimensions & weight :



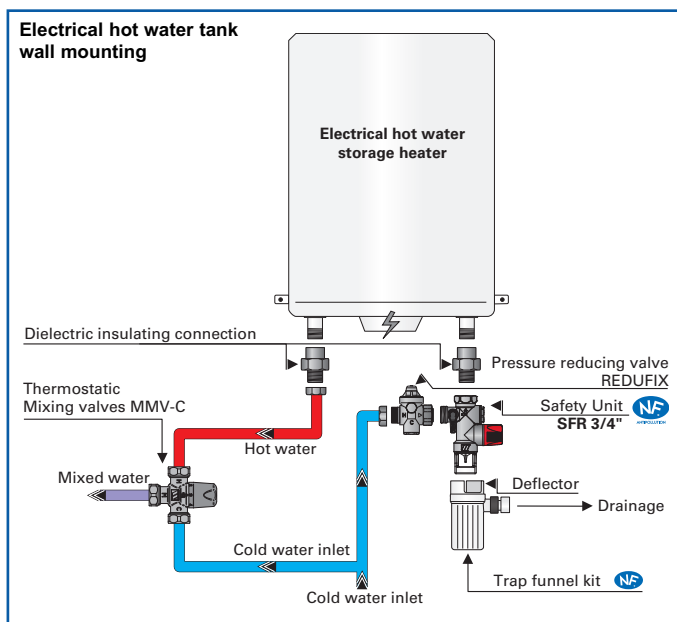
**Flow diagram / Pressure drop :**



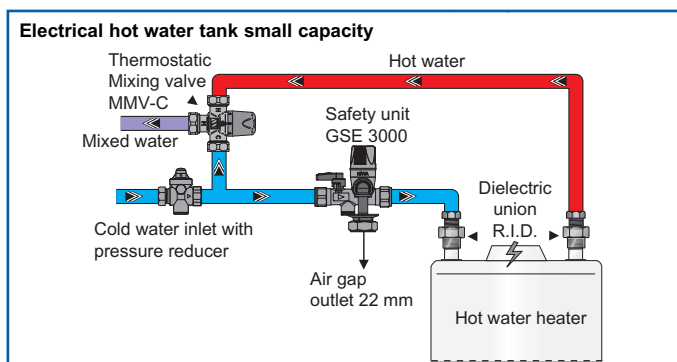
**Range of use :**

- Sanitary cold water.
- Hot water up to 70°C.
- 15 bar max inlet pressure.
- 3 bar ( $\pm 0,5$ ) setting pressure (adjustable from 1,5 to 5 bar).

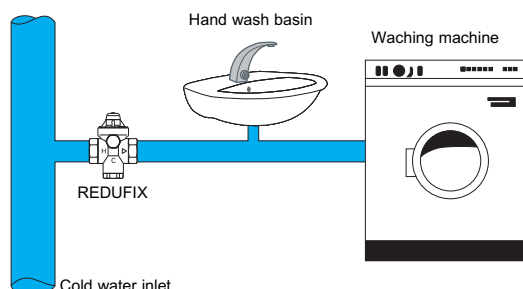
**Typical installations :**



The 82210 model is specially designed for use with the SFR hydraulic safety groups for hot water storage heaters. The 3/4" union nut outlet is used for an easy direct connection to the SFR hydraulic safety groups threaded in Male 3/4".



**Domestic sanitary cold water application**



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