

Expansion vessels



Reflex, Reflex



From the initial idea
to the solution



Reflex – The Company

Smooth operation in supply engineering thanks to system solutions

Reflex Winkelmann GmbH belongs to the Heating&Water division of the Winkelmann Group with 3,500 employees worldwide. The company is a leading brand manufacturer and solution provider for the smooth operation of water-carrying systems in supply engineering and modern building services. In addition to expansion vessels, we develop, manufacture and distribute innovative components and complete solutions for pressure-maintaining, water make-up, degassing, water treatment and storage as well as heat exchangers.

Extensive Product Range

Reflex represents a large range of products and services, offering innovative systems for heating, cooling and hot-water supply and a multitude of other services.

The Reflex product range comprises:







- Expansion Vessels
- Pressurisation Systems
- Water Make-Up Systems & Water Treatment
- Degassing Systems & Separation Technology
- Hot Water Storage Tanks & Heat Exchangers

**For constant reliable heat
and water supply.**






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Diaphragm and bladder expansion vessels For heating, chilled water and solar applications

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Diaphragm and bladder expansion vessels For potable applications

| | |
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Reflex: Potable water and service water applications

DD
Bladder



DD 2-33/10 bar
DD 8/25 bar
Page 21

DT
Bladder



DT 60-3000/10 bar
DT 80-3000/16 bar
Page 22



For potable water, pressurising and water-heating systems according to DIN 1988

C-DE
Bladder



C-DE 8-80/10 bar
Page 15

DE
Bladder



DE 2-5000/10 bar
DE 8-5000/16 bar
DE 8-3000/25 bar
Page 16



HW
Bladder



HW 25-100/10 bar
Page 20

DC
Diaphragm



DC 25-600/10 bar
Page 15



Only for systems not required to meet DIN 1988, such as fire-fighting and service water systems, underfloor heating and geothermal installations.

Water shock arrestor

WD
Diaphragm



0.165 litre/10 bar

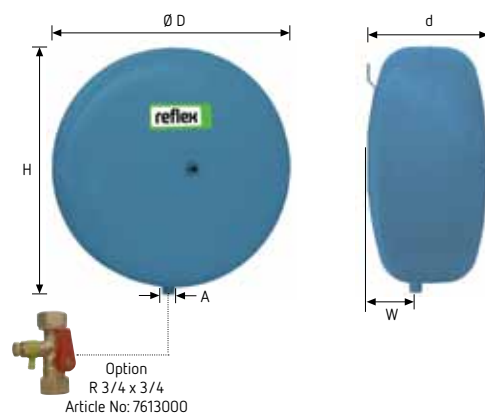


1 litre/10 bar



Refix C - DE

- Non-replaceable **butyl** bladder, according to DIN EN 13831 norm part 3
- Threaded stainless steel connection
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Durable epoxy coating
- Factory pre-pressurised gas chamber (Nitrogen)
- Provided with suspension bracket for easy wall mounting

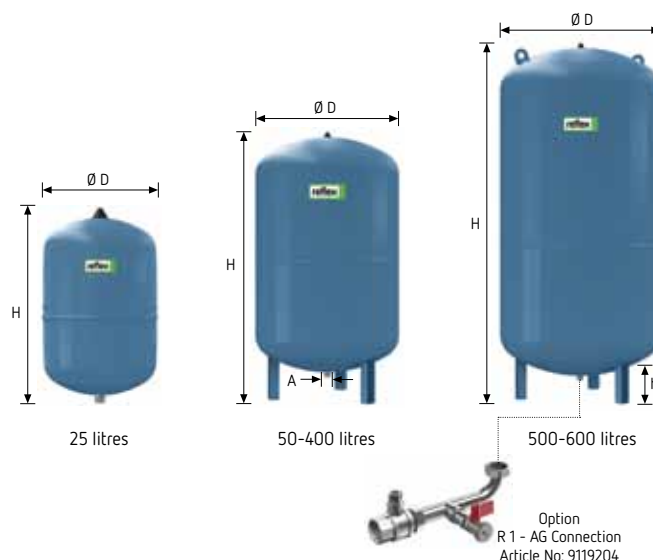


CE ACS

| | Type 10 bar / 70°C | Article No Blue | Material Group | PU | Weight kg | Ø D mm | H mm | d mm | W mm | A | Pre-charge pressure bar |
|--------|-----------------------|--------------------|-------------------|----|--------------|-----------|---------|---------|---------|-------|----------------------------|
| 10 bar | C-DE 8 | 7270900 | 17 | 96 | 3.8 | 280 | 300 | 163 | 52 | G 1/2 | 4.0 |
| | C-DE 12 | 7270910 | 17 | 60 | 5.2 | 354 | 375 | 168 | 64 | G 1/2 | 4.0 |
| | C-DE 18 | 7270920 | 17 | 42 | 5.6 | 354 | 375 | 222 | 76 | G 3/4 | 4.0 |
| | C-DE 25 | 7270930 | 17 | 42 | 8.2 | 409 | 430 | 239 | 93 | G 3/4 | 4.0 |
| | C-DE 35 | 7270940 | 17 | 24 | 13.0 | 480 | 500 | 240 | 97 | G 3/4 | 4.0 |
| | C-DE 50 | 7270950 | 17 | 20 | 15.4 | 480 | 500 | 318 | 125 | G 3/4 | 4.0 |
| | C-DE 80 | 7270960 | 17 | 8 | 22.4 | 634 | 654 | 325 | 135 | G 3/4 | 4.0 |

Refix DC

- For potable water, fire fighting and hydro-pneumatic well applications
- Non-replaceable diaphragm, according to DIN EN 13831 norm part 3
- All vessel parts in contact with water are coated against corrosion
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Durable epoxy coating
- Factory pre-pressurised gas chamber (Nitrogen)

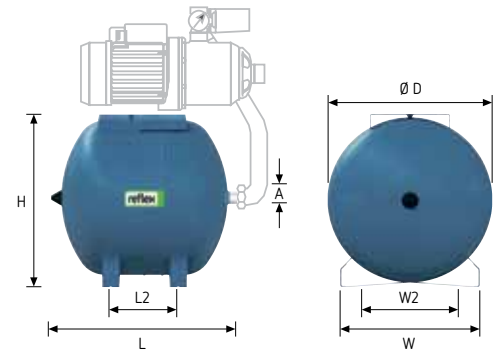


CE WRAS ACS

| | Type 10 bar / 70°C | Article No Blue | Material Group | Weight kg | Ø D mm | H mm | h mm | A | Pre-charge pressure bar |
|--------|-----------------------|--------------------|-------------------|--------------|-----------|---------|---------|-----|----------------------------|
| 10 bar | DC 25 | 7200400 | 54 | 4.7 | 280 | 520 | - | G 1 | 2.0 |
| | DC 50 | 7309600 | 54 | 12.5 | 409 | 588 | 113 | R 1 | 4.0 |
| | DC 80 | 7309700 | 54 | 17.0 | 480 | 680 | 104 | R 1 | 4.0 |
| | DC 100 | 7309800 | 54 | 20.5 | 480 | 785 | 104 | R 1 | 4.0 |
| | DC 140 | 7309900 | 54 | 29.0 | 480 | 997 | 104 | R 1 | 4.0 |
| | DC 200 | 7363500 | 54 | 40.0 | 634 | 883 | 91 | R 1 | 4.0 |
| | DC 300 | 7363600 | 54 | 52.0 | 634 | 1184 | 93 | R 1 | 4.0 |
| | DC 400 | 7363700 | 54 | 78.0 | 740 | 1173 | 81 | R 1 | 4.0 |
| | DC 500 | 7363800 | 54 | 80.0 | 740 | 1392 | 82 | R 1 | 4.0 |
| | DC 600 | 7363900 | 54 | 103.0 | 740 | 1629 | 73 | R 1 | 4.0 |

Refix HW

- For potable water, fire fighting and hydro-pneumatic well applications
- Bladder, according to DIN EN 13831 norm part 3, max. operating temperature 70°C
- All vessel parts in contact with water are coated against corrosion
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Durable epoxy coating
- Factory pre-pressurised gas chamber (Nitrogen)
- From 50 litres volume with replaceable bladder



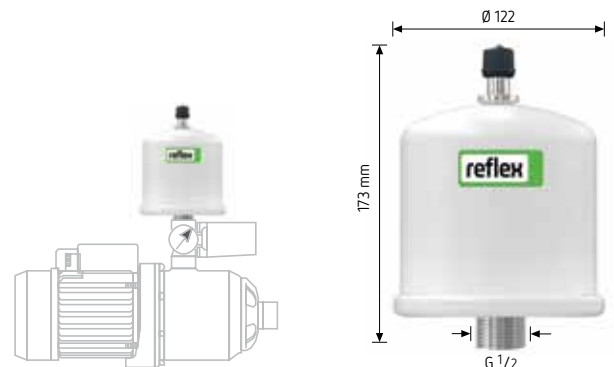
CE WRAS ACS

| | Type 10 bar / 70°C | Article No Blue | Material Group | PU | Weight kg | Ø D mm | H mm | L mm | L2 mm | W2 mm | W mm | A | Pre-charge Pressure bar |
|--------|-----------------------|--------------------|-------------------|----|--------------|-----------|---------|---------|----------|----------|---------|-------|----------------------------|
| 10 bar | HW 25 | 7200310 | 49 | 36 | 5.3 | 280 | 293.4 | 520 | 228 | 214 | 270 | G 3/4 | 2 |
| | HW 50 | 7200320 | 49 | 20 | 15.0 | 409 | 433 | 503 | 175 | 285 | 350 | G 3/4 | 2 |
| | HW 60 | 7200330 | 49 | 16 | 16.0 | 409 | 433 | 573 | 175 | 285 | 350 | G 1 | 2 |
| | HW 80 | 7200340 | 49 | 16 | 17.0 | 480 | 495 | 595 | 230 | 285 | 355 | G 1 | 2 |
| | HW 100 | 7200350 | 49 | 16 | 15.0 | 480 | 495 | 705 | 340 | 285 | 355 | G 1 | 2 |

Refix DE 1

- To be used along devices where sudden pressure build-up is caused by quick shut-off such as washing machines, dish washers etc.
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Volume 1 litres
- Durable epoxy coating
- Factory pre-pressurised gas chamber 4 bar (Nitrogen)
- 10 bar / 70°C

Article No : 7100300 Material Group : 40



CE

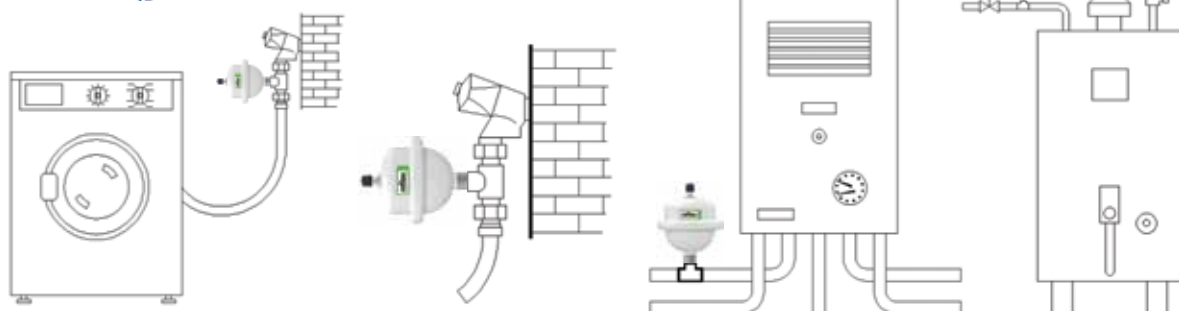
Refix Water Shock Arrestor

- To be used along devices where sudden pressure build-up is caused by quick shut-off such as washing machines, dish washers etc.
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Volume 165 cm³
- Durable epoxy coating
- Factory pre-pressurised gas chamber 4 bar (Nitrogen)
- 10 bar / 70°C

Article No : 7351000 Material Group : 74



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The Reflex brand name is well known in Europe and throughout the world as a major leader in pressure control technology for heating, chilled and potable water applications. Our world wide growth has allowed us to build several state-of-the-art manufacturing facilities supplying the industry with outstanding quality products. Reflex Winkelmann GmbH having its headquarters in the Westfalian city of Ahlen is not only a recognized leader in expansion vessels but also a significant manufacturer of advanced system solutions such as compressor and pump-controlled pressurisation systems, automatic air separation systems and hot water heaters.