

# MASTER OF ALL CLASSES

## BWT D1 Pressure reducer





What can be improved on a pressure reducer? Everything!

# D1 sets new standards

BWT D1 Pressure reducer protects domestic water systems from excessive supply pressure in accordance with DIN EN 806-2 and DIN 1988-200. It helps to avoid pressure-related damage, reduces water consumption and ensures sound insulation. Special features of the D1:



## MASTERPIECE

D1 – nomen est omen. The new BWT Pressure reducer impresses with its design, the choice of materials and its very easy operation and last but not least the optimization of pressure & flow behavior: expressed in one figure – Kvs value 9,3 m<sup>3</sup>/h for DN 25



## FULL RANGE

From the start, a wide range of products including spare parts is available for domestic and commercial technologies. For every application – private, commercial or industry – there is the perfect type of pressure reducer !



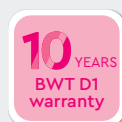
## INSTANT HYGIENE

easy exchange of screen sieve with reminder service in the App



## APP FOR SAVING WATER AND MONEY

With optimized pressure setting the customer saves € 100 and more every year



## 10 YEARS D1-WARRANTY

with Product-registration, installation through authorized plumber and intended operation

# D1 Masterpiece

- » highest flow rate and perfect pressure control – due to patented Venturi-effect
- » robust design-icon – built up to 50 % more massive than comparable products (eg weight D1 Red 1": 1.7 kg vs. competitors 1.14–1.4 kg)
- » up to 16 or 25 bar inlet pressure
- » lowest noise class

When it comes to the flow rate, the D1 pressure reducer shows its strengths. Compare by yourself: Depending on the task, even one dimension smaller than the competition is possible, with corresponding cost savings. Here are the facts:



**MASTER-CLASS**  
 $K_{vs}$  9.3 m<sup>3</sup>/h  
 at DN25

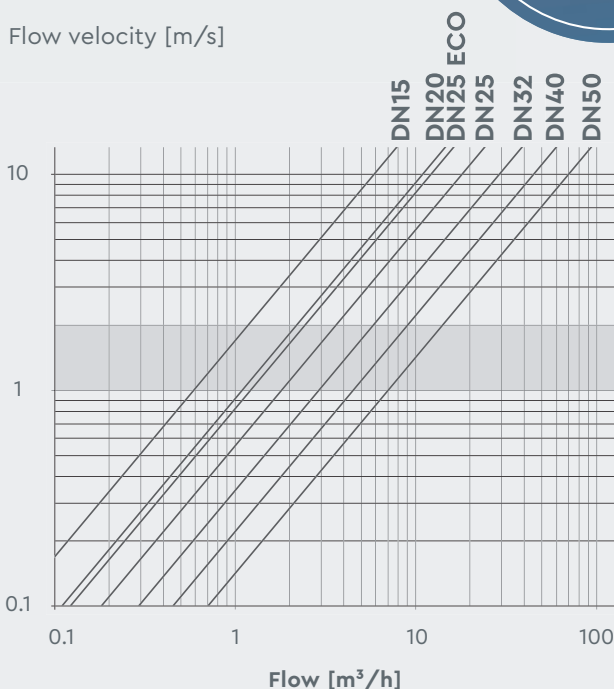
## Flow coefficient $K_{vs}$ :

| Nominal width (mm) | Flow- $K_{vs}$ (m <sup>3</sup> /h) |
|--------------------|------------------------------------|
| DN15               | 3.4                                |
| DN20               | 4.4                                |
| DN25 Eco           | 4.7                                |
| DN25               | <b>9.3*</b>                        |
| DN32               | 10.5                               |
| DN40               | 19.5                               |
| DN50               | 20.5                               |

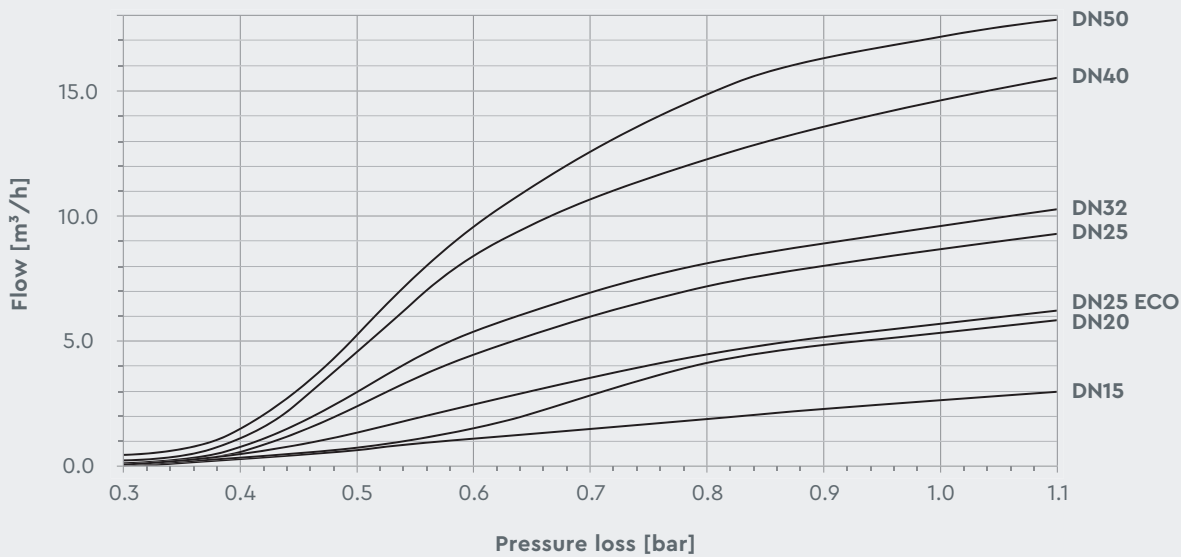
\*Top-values from known pressure reducers show 5.4 resp. 5.8 m<sup>3</sup>/h

## Flow velocity [m/s]

The diagram can be used to determine the required nominal size (DN) for the target flow rate (m<sup>3</sup>/h). According to regulations (eg: DIN 1988), a flow rate of 2 m/s shall not be exceeded in domestic water systems.







### Pressure loss

downstream - based on 8 bar inlet pressure, 3 bar back pressure (static)

# D1 Full range

Easy exchange in the renovation **100 mm in 1"** common installation lengths in all Dimensions.

- » 3 Metal materials:  
Brass UBA –  
Red brass lead free –  
Stainless steel
- » Plastic material from medical technology
- » 40 °C cold- or up to 85 °C hot water
- » Dimensions 1/2" to 2"
- » common installation lengths for easy exchange
- » inklusive spare parts: full range of 75 articles



## BWT D1 Eco

### Economy and more

|  |   |                        |
|--|---|------------------------|
| Features   | + Compact core range: 1/2"-1"<br>+ Performance-based regulation<br>+ Substitutes established brass-models<br>+ App: Water saving, Hygiene, Warranty,... |                        |
| Type   | D1 Eco 40.16  | D1 Eco 85.25           |
| Temperature range                                | Cold water up to 40 °C  | Warm water up to 85 °C |
| Upstream-pressure/Downstream-pressure adjustable | 16 bar<br>1.5-7 bar   | 25 bar<br>1.5-7 bar    |
| Housing material                                 | Brass acc. UBA Positive-List*   |                        |
| Filter sieve cup material                        | High quality plastic  | Brass UBA              |
| Dimension, Specification                         | DN 15 – DN 25<br>Valve insert, Spring housing, Sieve and Filter cup in uniform size I   |                        |

\* Guidelines of evaluation for materials in contact with drinking water (Federal Environment Agency Germany)



## BWT D1 Red

Standard with all extras

- + Full range up to 2"
- + Powerful with reserves
- + Modern Red brass (lead-free)
- + App: Water saving, Hygiene, Warranty,...

D1 Red 40.16

Cold water  
up to 40 °C

16 bar  
1.5-7 bar

Red brass lead-free acc. UBA Positive-List\*

High-quality plastic

D1 Red 85.25

Warm water  
up to 85 °C

25 bar  
1.5-7 bar

Red brass lead-free



## BWT D1 Inox

High End without compromises

- + Full range up to 2"
- + Powerful with Reserves
- + Best material: stainless steel
- + App: Water saving, Hygiene, Warranty,...

D1 Inox 40.16

Cold water  
up to 40 °C

16 bar  
1.5-7 bar

Stainless steel 1.4408 (V4A)

High quality plastic

D1 Inox 85.25

Warm water  
up to 85 °C

25 bar  
1.5-7 bar

Stainless steel

DN 15 – DN 50

Valve insert, spring housing, Sieve and Filtercup in 3 sizes:  
I – 1/2" and 3/4", II – 1" and 5/4", III – 6/4" and 2"

## International Certificates

Der BWT D1 exceeds international Standards, Certificates acc. ÜA, DVGW, WRAS applied for; ACS issued (Status 02/2021). Current Status can be found in the product data sheets, offer and tender texts – in the BWT Pro-Portal: [bwt.com/pro](http://bwt.com/pro)

[www.bwt.com/d1](http://www.bwt.com/d1)  
product data sheet and  
tender text



# D1 Benefits for operators

As soon as the D1 is registered with its 8-digit product code in the BWT App, plumbers and planners benefit – as well as customers – from unique advantages. In addition to a 10-year D1 guarantee, the setting aid for optimal water pressure with water savings and a reliable hygiene concept, the App is also the direct line from the customer's product to the installer and his marketplace on the BWT website



## 10 YEARS D1 WARRANTY

ON FUNCTION AND OUTPUT  
OF D1 PRESSURE REDUCER

### Preconditions:

- » Proper installation und commissioning by authorized plumber
- » Intended operation by user, especially annual maintenance according EN 806-5
- » Product-registration in the Best Water Home App



## INSTANT HYGIENE

HYGIENIC PROTECTION THROUGH  
APP REMINDER

- » Reminder service in the BWT App for annual maintenance of the filter screen sieve
- » Easy self-control of the stainless-steel screen (160 µm) through the transparent filter screen cup
- » A dirty sieve can be cleaned or replaced in a few simple steps – without dismantling of the spring housing; even by an instructed operator



**Link to the clip:**  
D1 Pressure reducer –  
Exchange of filter screen



# D1 Master of craftsman

## ADVANTAGES IN THE PRO PORTAL

### ADVANTAGE THROUGH SERVICE & WARRANTY

By registering in the BWT ProPortal, the BWT partner benefits all along the line:

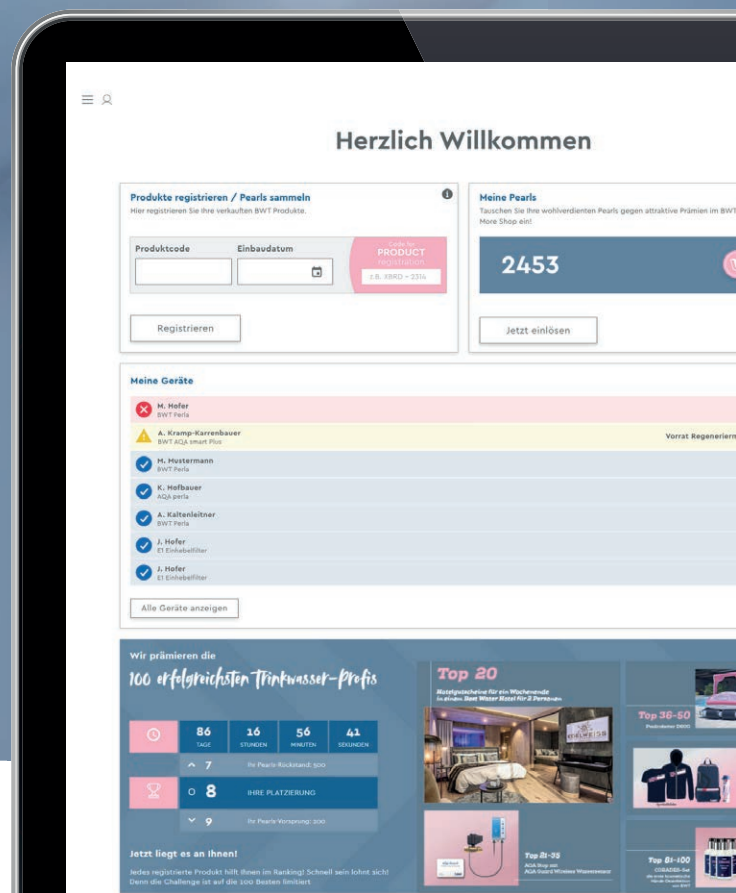
- » All registered D1 at a glance in the customer dashboard
- » Water hygiene concept for consumers is used for loyalty + service with after-sales business
- » 10 years warranty for the customer means 10 years safety for the plumber

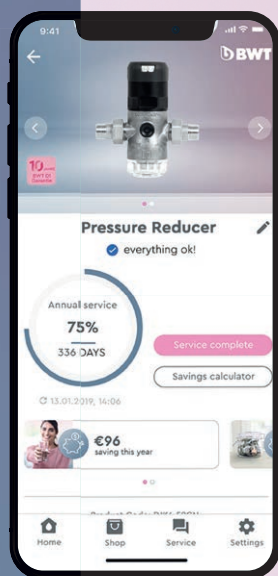
### D1 BRINGS PEARLS PEARLS PEARLS

Every registered D1 Pressure reducer and every maintenance set purchased on the market place brings the BWT partner Pearls, Pearls, Pearls, which he can exchange for a widespread range of attractive prizes in the Pearls & More shop.

| TYPE  | Pearls |
|---|--------|
| D1 Eco 1/2"-1"<br>D1 Red 1/2"-1"                        | 20     |
| D1 Red 5/4"-2"<br>D1 Inox 1/2"-1"<br>D1 Maintenance set | 40     |
| D1 Inox 5/4"-2"   | 80     |

Every D1 will be counted also in the Sales Challenge!





## SALES SUPPORT

Multiple support is available for the design, consulting and sale of the D1 pressure reducer. Recommend the App to the customer, use the ProPortal yourself for product registration and the related services. With an offer insert, a poster or templates for online postings, you can inspire new and existing customers for D1 and its advantages. Your BWT contact person will be happy to advise u.



Find here all available sales documents

# OPTIMIZE PRESSURE, SAVE MONEY & WATER

DIE INVESTMENT IN A BWT D1 PRESSURE REDUCER  
WORTH IT FOR CONSUMERS AND THE ENVIRONMENT:

Wherever water flows into a free outlet, this valuable resource and money is wasted at the same time: e.g. on the sink, in the shower, in the kitchen or when watering the garden. It is well known that a pressure reducer can prohibit this waste. However, it has never been easier than with the BWT D1 pressure reducer to achieve maximum savings with satisfactory comfort with the support of an adjustment aid in the app:

» The Best Water Home App shows how much water and money can be saved depending on the consumer's reference costs for drinking and wastewater as well as the annual water consumption at the respective outlet pressure value.

» With a few simple steps and without any tool, set this target value can be set on the pressure reducer and, if necessary, optimized for sufficient comfort.

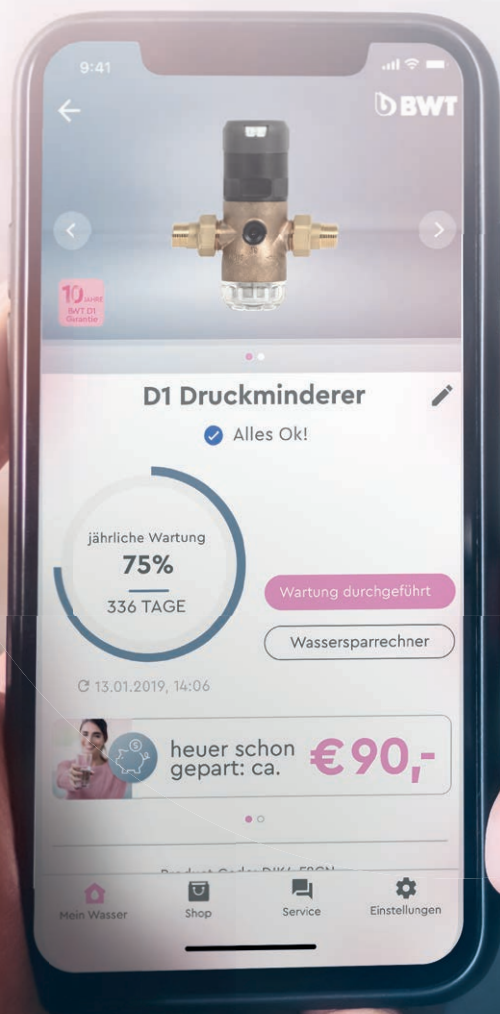
## EXAMPLE:

### Reduction from 6 bar upstream-pressure

at 100 m<sup>3</sup> Water consumption p.a.  
1,- €/m<sup>3</sup> Drinking water- resp.  
5,- €/m<sup>3</sup> Waste water costs

**to 4 bar: save 19% – € 111,- p.a.**

**to 3 bar: save 29% – € 177,- p.a.**



Link to the clip:  
D1 Pressure reducer –  
Pressure setting



## BWT BEST WATER HOME

APP – WATER CONSULTANT – WORLD OF BENEFITS



**BWT Best Water Home**

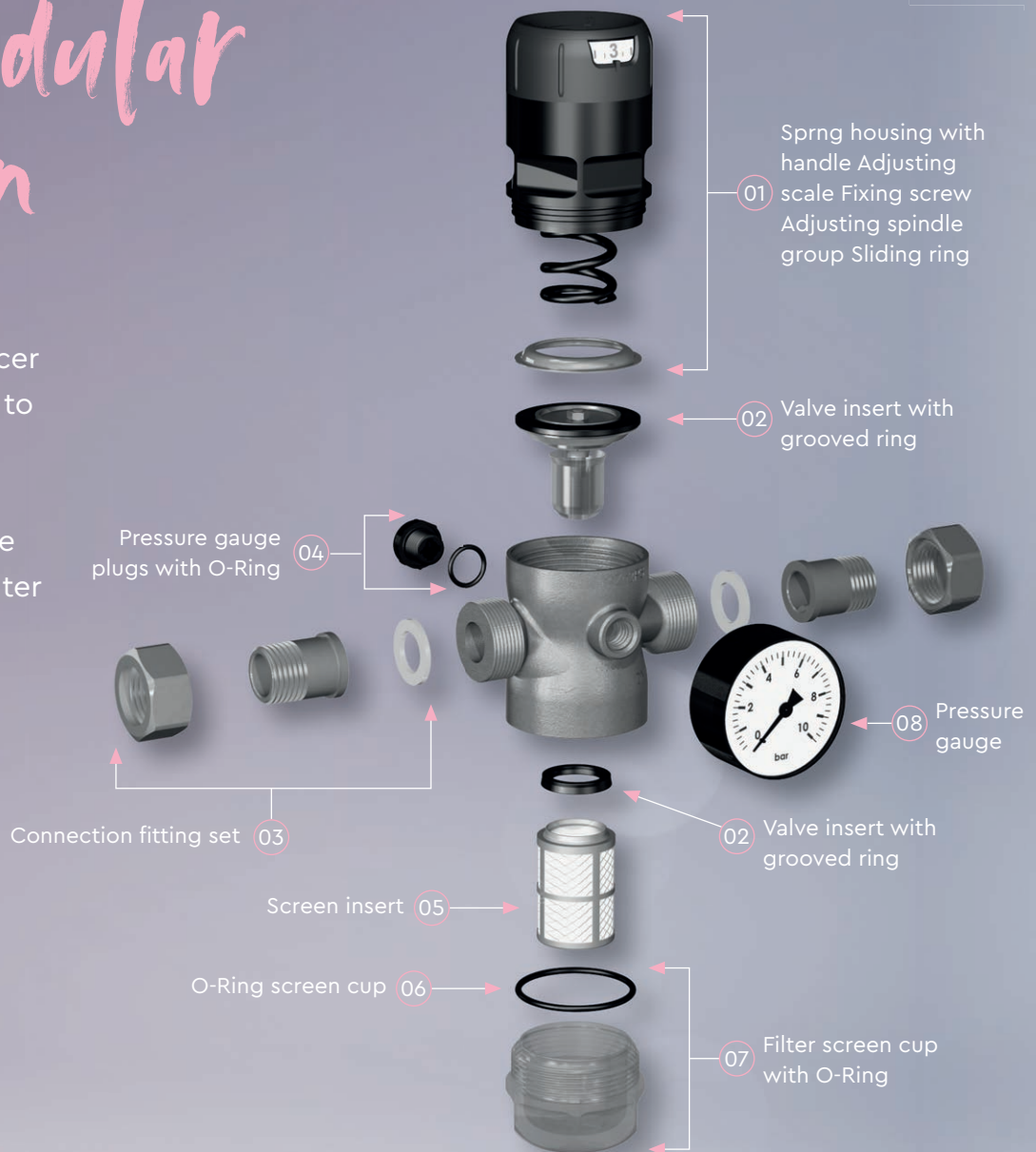




# D1 modular design

The D1 Pressure reducer range leaves nothing to be desired.

Due to the modular structure, not only the replacement of the filter screen but also any maintenance can be done easily.



| item no.  | description                                     | Pos. |
|-----------|---|------|
| 125300301 | BWT D1 Spring housing set 1/2"-3/4"             | 1    |
| 125300302 | BWT D1 Spring housing set 1"-1 1/4"             | 1    |
| 125300303 | BWT D1 Spring housing set 1 1/2"-2"             | 1    |
| 125300304 | BWT D1 Valve insert with grooved ring 1/2"-3/4" | 2    |
| 125300306 | BWT D1 Valve insert with grooved ring 1"-1 1/4" | 2    |
| 125300307 | BWT D1 Valve insert with grooved ring 1 1/2"-2" | 2    |
| 125300308 | BWT D1 Connection fitting set Eco 1/2"          | 3    |
| 125300309 | BWT D1 Connection fitting set Eco 3/4"          | 3    |
| 125300310 | BWT D1 Connection fitting set Eco 1"            | 3    |
| 125300312 | BWT D1 Connection fitting set Eco 1 1/4"        | 3    |
| 125300313 | BWT D1 Connection fitting set Eco 1 1/2"        | 3    |
| 125300314 | BWT D1 Connection fitting set Eco 2"            | 3    |
| 125300315 | BWT D1 Connection fitting set Red 1/2"          | 3    |
| 125300317 | BWT D1 Connection fitting set Red 3/4"          | 3    |
| 125300319 | BWT D1 Connection fitting set Red 1"            | 3    |
| 125300320 | BWT D1 Connection fitting set Red 1 1/4"        | 3    |
| 125300321 | BWT D1 Connection fitting set Red 1 1/2"        | 3    |
| 125300323 | BWT D1 Connection fitting set Red 2"            | 3    |
| 125300326 | BWT D1 Connection fitting set Inox 1/2"         | 3    |
| 125300327 | BWT D1 Connection fitting set Inox 3/4"         | 3    |
| 125300328 | BWT D1 Connection fitting set Inox 1"           | 3    |
| 125300330 | BWT D1 Connection fitting set Inox 1 1/4"       | 3    |

| item no.  | description  | Pos. |
|-----------|--|------|
| 125300331 | BWT D1 Connection fitting set Inox 1 1/2"              | 3    |
| 125300332 | BWT D1 Connection fitting set Inox 2"                  | 3    |
| 125300333 | BWT D1 Pressure gauge plugs 1/4" with O-Ring (5x)      | 4    |
| 125300334 | BWT D1 Screen insert 160µm 1/2" - 3/4"                 | 5    |
| 125300335 | BWT D1 Screen insert 160µm 1" - 1 1/4"                 | 5    |
| 125300336 | BWT D1 Screen insert 160µm 1 1/2" - 2"                 | 5    |
| 125300337 | BWT D1 O-Ring screen cup (10x) 1/2" - 3/4"             | 6    |
| 125300338 | BWT D1 O-Ring screen cup (10x) 1" - 1 1/4"             | 6    |
| 125300339 | BWT D1 O-Ring screen cup (10x) 1 1/2" - 2"             | 6    |
| 125300340 | BWT D1 Filter screen cup plastic with O-Ring 1/2"-3/4" | 7    |
| 125300342 | BWT D1 Filter screen cup plastic with O-Ring 1"-1 1/4" | 7    |
| 125300343 | BWT D1 Filter screen cup plastic with O-Ring 1 1/2"-2" | 7    |
| 125300345 | BWT D1 Filter screen cup Red with O-Ring 1/2"-3/4"     | 7    |
| 125300346 | BWT D1 Filter screen cup Red with O-Ring 1"-1 1/4"     | 7    |
| 125300348 | BWT D1 Filter screen cup Red with O-Ring 1 1/2"-2"     | 7    |
| 125300349 | BWT D1 Filter screen cup Inox with O-Ring 1/2"-3/4"    | 7    |
| 125300350 | BWT D1 Filter screen cup Inox with O-Ring 1"-1 1/4"    | 7    |
| 125300351 | BWT D1 Filter screen cup Inox with O-Ring 1 1/2"-2"    | 7    |
| 125300353 | BWT D1 Filter screen cup Eco with O-Ring 1/2"-1"       | 7    |
| 125305328 | BWT D1 Pressure gauge 0-10 bar, G 3/4" axial           | 8    |
| 125305331 | BWT D1 Spare parts case                                |      |



# MODULAR CONCEPT

DN15

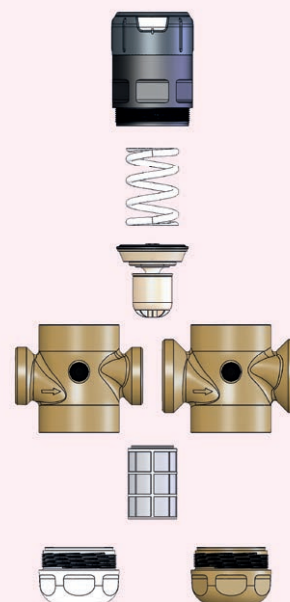
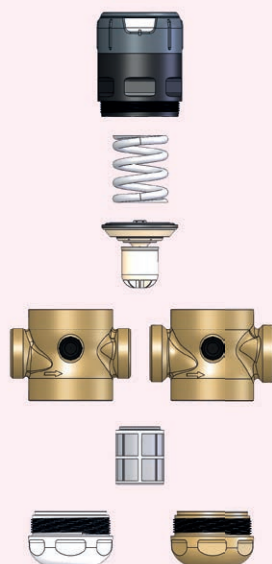
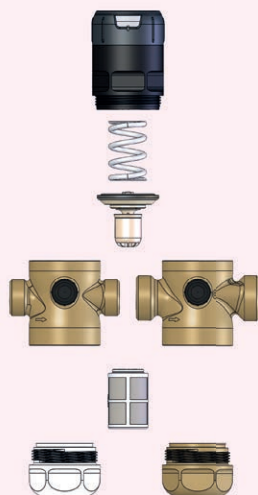
DN20

DN25

DN32

DN40

DN50



40°C / PN16



85°C / PN25

## D1 SPARE PARTS CASE

| item no.  | description  | pcs | size |
|-----------|--|-----|------|
| 125300304 | BWT D1 Valve insert with grooved ring 1/2" - 3/4"        | 1   | I    |
| 125300306 | BWT D1 Valve insert with grooved ring 1" - 1 1/4"        | 1   | II   |
| 125300334 | BWT D1 Screen insert 160µm 1/2" - 3/4"                   | 2   | I    |
| 125300335 | BWT D1 Screen insert 160µm 1" - 1 1/4"                   | 2   | II   |
| 125300336 | BWT D1 Screen insert 160µm 1 1/2" - 2"                   | 1   | III  |
| 125300340 | BWT D1 Filter screen cup plastic with O-Ring 1/2" - 3/4" | 2   | I    |
| 125300342 | BWT D1 Filter screen cup plastic with O-Ring 1"-1 1/4"   | 2   | II   |
| 125300343 | BWT D1 Filter screen cup plastic with O-Ring 1 1/2"-2"   | 1   | III  |
| 125300337 | BWT D1 O-Ring screen cup (10x) 1/2" - 3/4"               | 1   | I    |
| 125300338 | BWT D1 O-Ring screen cup (10x) 1" - 1 1/4"               | 1   | II   |
| 125305328 | BWT D1 Pressure gauge 0-10 bar, G 1/4" axial             | 2   |      |
| 125300333 | BWT D1 Pressure gauge plugs 1/4" with O-Ring (5x)        | 1   |      |
| 125306185 | BWT D1 Installation key                                  | 1   |      |



incl. D1 Installation key



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FOR YOU AND PLANET BLUE.