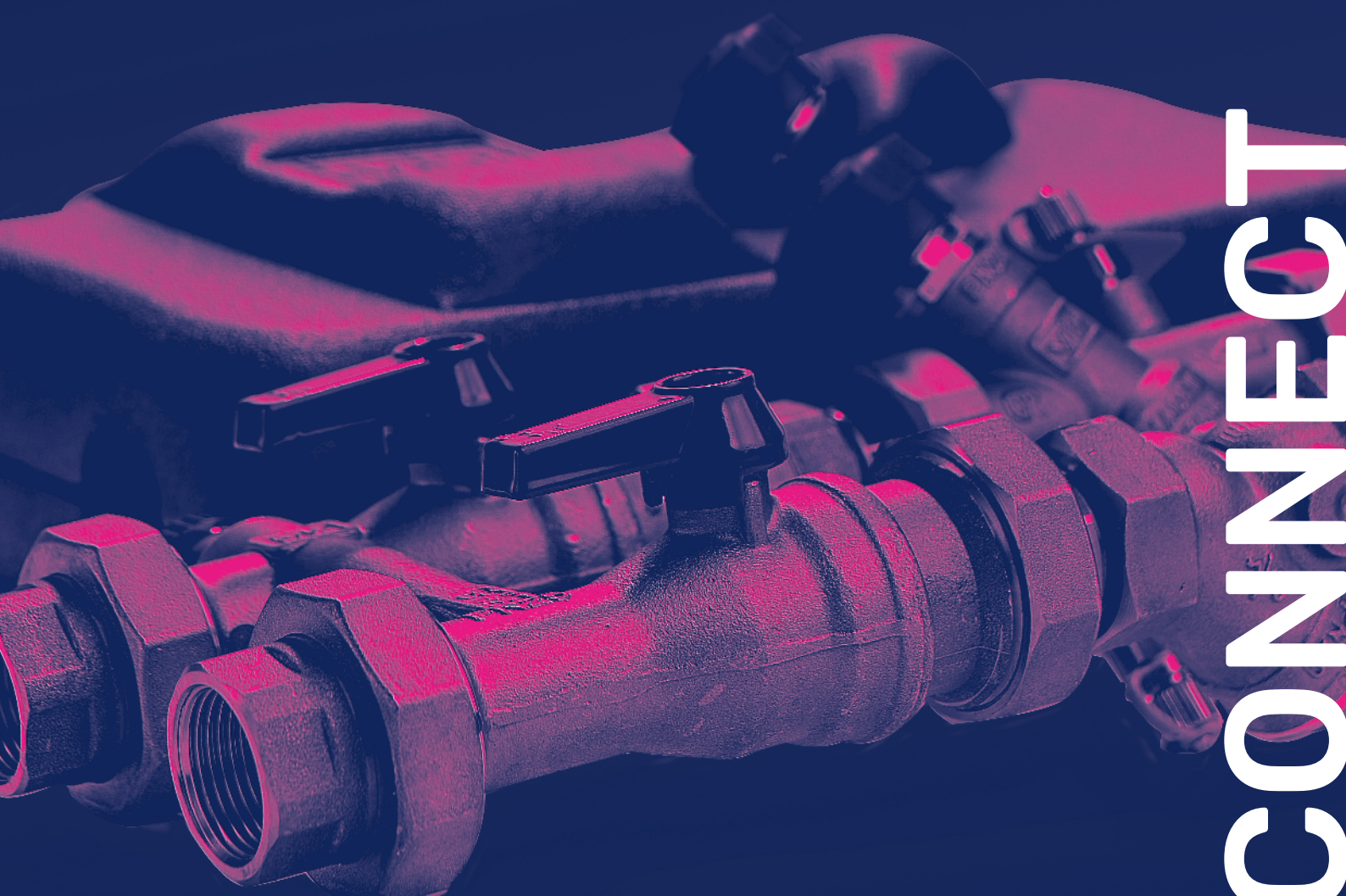




flowing ideas



Connection kits
for terminal units

EZCONNECT

A close-up photograph of a brass water valve assembly, likely a shower or bathtub faucet. The valve is covered in water droplets, suggesting it has been recently used. The main body of the valve is brass, and it features several blue plastic handles and a blue cap. The background is dark, making the metallic and blue components stand out. The text "EZCONNECT" is overlaid in white, bold, sans-serif font across the center of the image.

EZCONNECT

A close-up photograph of several brass terminal units, likely for a heating or cooling system. The units are arranged in a cluster, with some featuring blue plastic caps and others with red plastic caps. The brass has a textured, slightly weathered appearance. The background is dark and out of focus.

Connection kits for terminal units

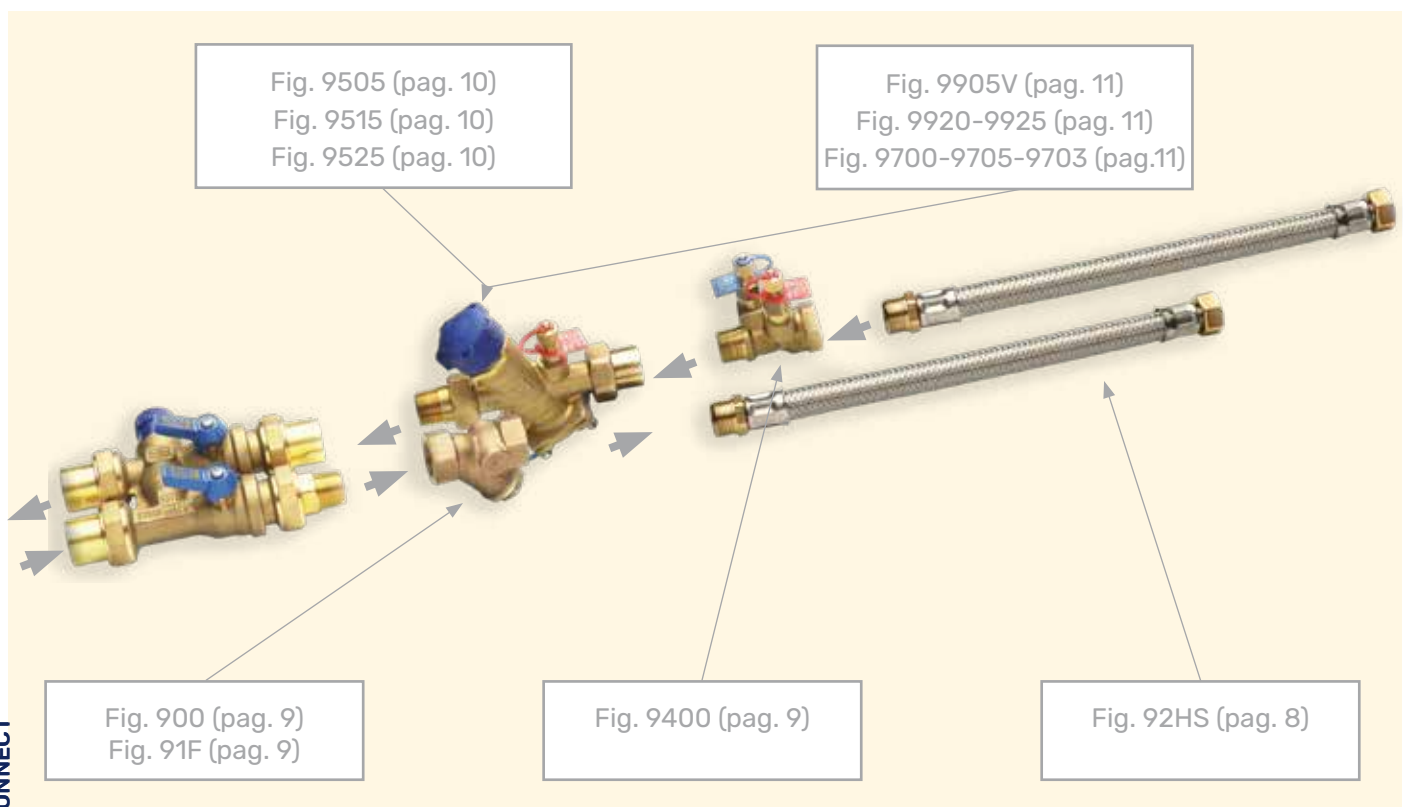
DESCRIPTION & BENEFITS

EZCONNECT is the flexible solution developed by VIR for easy installation and maintenance of HVAC terminal units such as fan coils, heat exchangers and so on.

Each kit is pre-assembled and tested by VIR in order to ensure a successful connection, reduce the on-site assembly operations and prevent potential failures.

EZCONNECT is the result of VIR's experience in the designing and manufacturing of HVAC components. Both the By-pass valve and Pressure Independent Control Valve (PICV) are patented products, specifically designed for this kind of application. In order to supply the most reliable solution for HVAC applications, the components of the kits are made in DZR (dezincification resistant) materials for the prevention of stress corrosion cracking.

CUSTOMIZED CONFIGURATIONS



MAIN FEATURES & CODES



Simplified installation and maintenance of the terminal unit, allowing its cleaning and/or disassembling while the rest of the system is working.

Independent flow regulation of each terminal unit, by means of the VIR static and automatic balancing valves.

Different possible configurations for system flushing, depending on commission requirements.

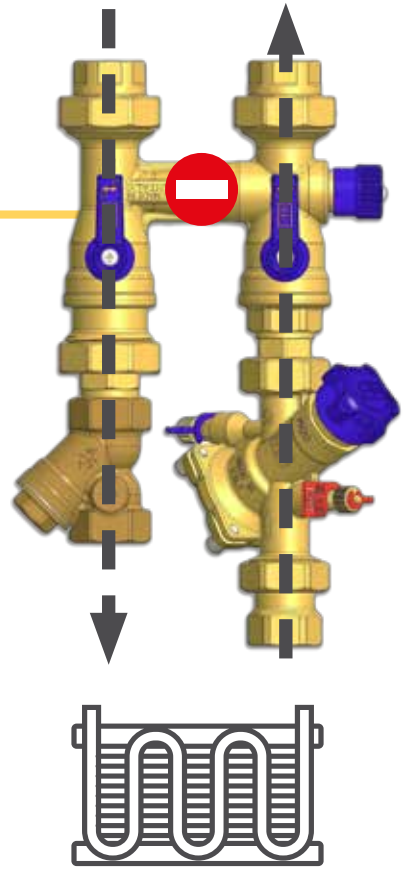
Reliable design, material selection and certified quality control system.

Code	Ball ID	Pipe Connection	Unit Connection	CtoC [mm]	Flow [l/h]
90BY with union ends					
F90BY0015.2256	DN 15	Rp 1/2"	Rp 1/2"	40	N.A.
F90BY0020.2256	DN 20	Rp 3/4"	Rp 3/4"	80	N.A.
90BY without union ends					
F90BY0015.2257	DN 15	ISO 228/1 - 1"	ISO 228/1 - 1"	40	N.A.
F90BY0020.2257	DN 20	ISO 228/1 - 1 1/4"	ISO 228/1 - 1 1/4"	80	N.A.
90BY - 9705 (PICV)					
JLP411030.4	DN 15	Rp 1/2"	Rp 1/2"	40	29 ÷ 540
JLP311032.4	DN 15	Rp 3/4"	Rp 3/4"	40	224 ÷ 1120
JLP321030.4	DN 20	Rp 3/4"	Rp 3/4"	80	224 ÷ 1120
JLP421032.4	DN 20	Rp 1"	Rp 1"	80	432 ÷ 2160
90BY - 9515 (FODRV)					
JLF411030.4	DN 15	Rp 1/2"	Rp 1/2"	40	27 ÷ 533
JLF511032.4	DN 15	Rp 3/4"	Rp 3/4"	40	497 ÷ 1170
JLF521030.4	DN 20	Rp 3/4"	Rp 3/4"	80	497 ÷ 1170
JLF621032.4	DN 20	Rp 1"	Rp 1"	80	929 ÷ 2171
90BY - 9525 (VODRV)					
JLE411030.4	DN 15	Rp 1/2"	Rp 1/2"	40	112 ÷ 533
JLE511032.4	DN 15	Rp 3/4"	Rp 3/4"	40	497 ÷ 1170
JLE521030.4	DN 20	Rp 3/4"	Rp 3/4"	80	497 ÷ 1170
JLE621032.4	DN 20	Rp 1"	Rp 1"	80	929 ÷ 2171

FUNCTIONAL SCHEMES

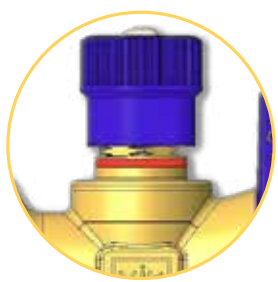
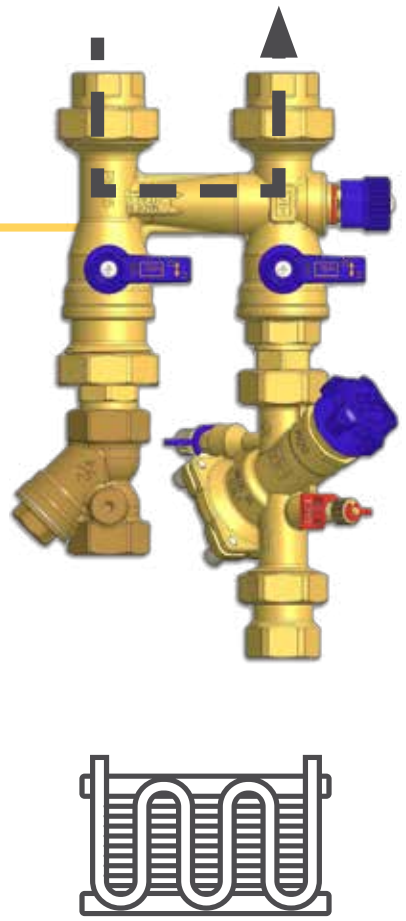
1 NORMAL OPERATION

In the terminal unit's normal operating conditions, the by-pass is closed and both the isolating ball valves are open. A strainer is placed on the supply branch in order to protect the unit from residual debris, and a balancing valves (e.g. PICV) is placed on the return branch in order to regulate the flow through the hydraulic circuit.



2 SYSTEM FLUSHING UNIT MAINTENANCE

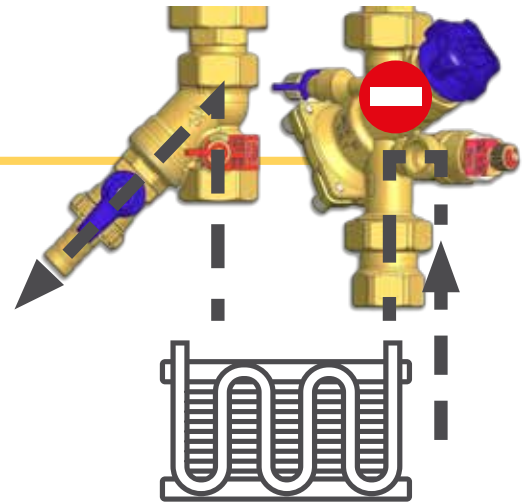
Before starting the terminal unit, it is advisable to flush the system in order to remove impurities and debris which could affect the correct functioning of the unit.



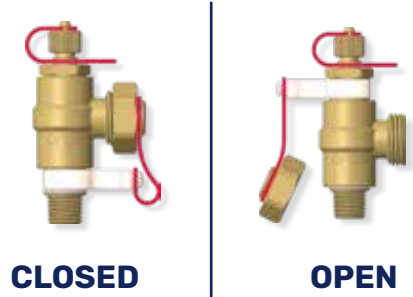
EZCONNECT allows to easily perform this function by opening the by-pass and closing both of the isolating valves. The same configuration can be used for the unit's maintenance.

3 UNIT FLUSHING

By installing a VIR test port with drain 9315 on the balancing valve, with the by-pass open and both the isolating ball valves closed, it is possible to clean the terminal unit without disconnecting it from the line.



9315 - Test Port with Drain

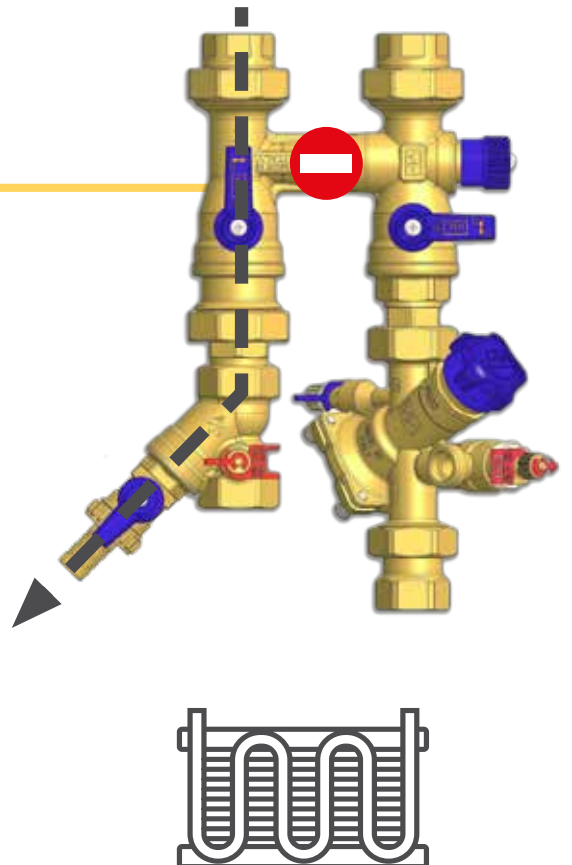


CLOSED

OPEN

4 DIRECT FLUSHING

By closing the by-pass and the outlet valve and opening the inlet valve, it is possible to perform the flushing of the inlet piping and the strainer, draining the water into the atmosphere.

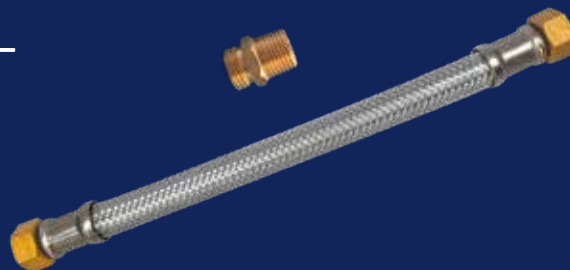


AVAILABLE OPTIONS

1 92HS



EPDM Perox Hoses with Stainless Steel Braided Sleeve and Brass Fittings



2 VAURIEN



Linear Thermoelectric Actuator



3 VAURIEN-M



Modulating Electric Actuator



4

9400



DZR Brass Metering Station



5

900



Bronze Strainer with Stainless Steel Filter



6

91F



DZR Brass Strainer with Optional Drain and Test Point



AVAILABLE OPTIONS

7

9515



Fixed Orifice DRZ Brass Double Regulating Valve



8

9505



Variable Orifice Bronze Double Regulating Valve



9

9525



DRZ Brass ON/OFF Terminal Balancing Valve



10 9905V



DZR Brass Automatic Balancing Valves



11 9920 - 9925



DZR Brass ON/OFF Automatic Balancing Valve



12 9700 - 9705 - 9703



Pressure Independent Control Valve (PICV)



AVAILABLE OPTIONS

13 T650

Differential pressure manometer with flow calculation



14 INSULATING SHELLS

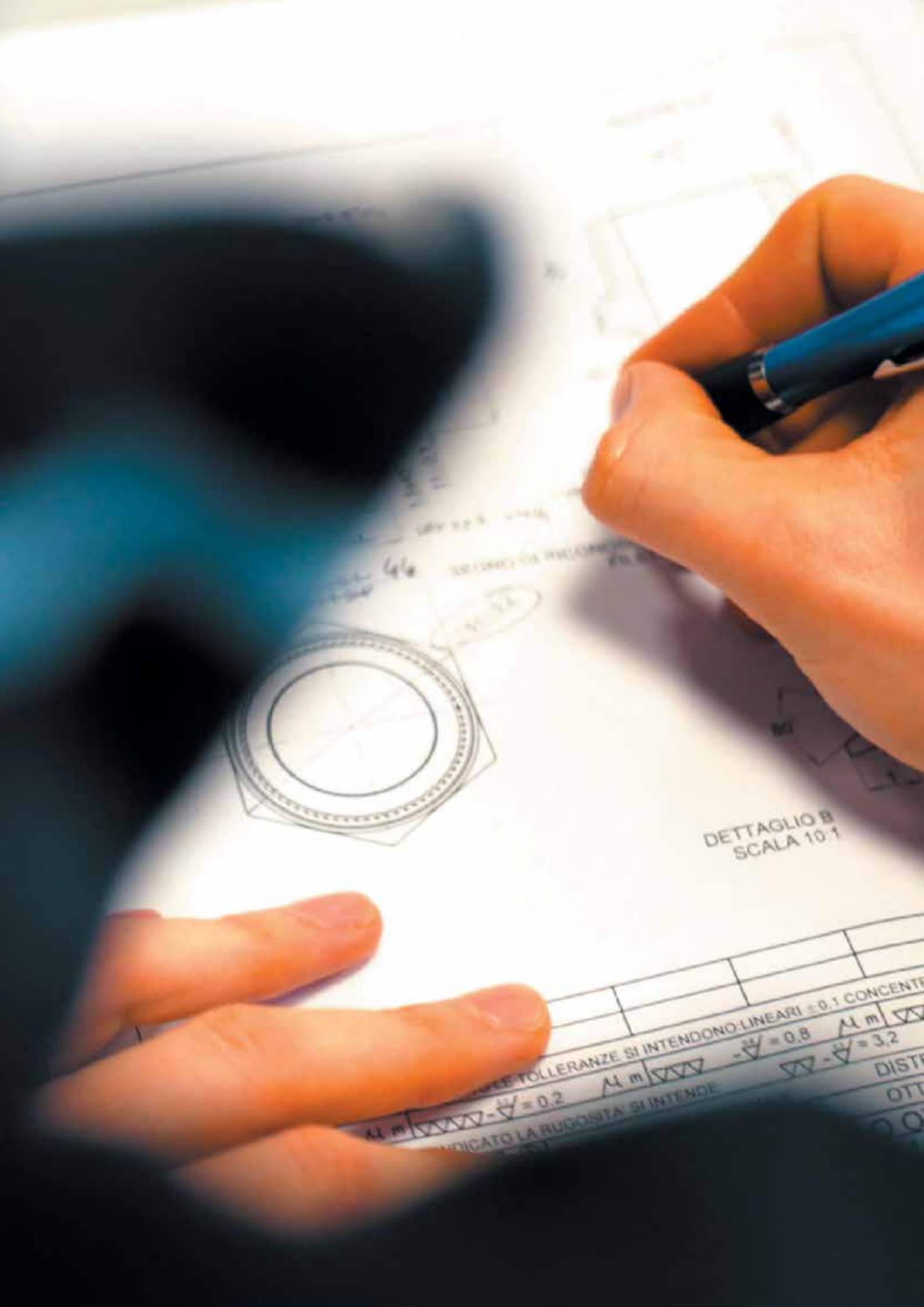
Shells made in crosslinked expanded polyethylene (PE) with closed cells are available for both heating and cooling applications



15 SHRINK WRAPPED PACKAGING

Packaging available upon request





DETTAGLIO B
SCALA 10:1

Symbol	Value	Symbol	Value	Symbol	Value
$\sqrt{\text{---}}$	0.2	$\sqrt{\text{---}}$	0.8	$\sqrt{\text{---}}$	3.2
$\sqrt{\text{---}}$	0.2	$\sqrt{\text{---}}$	0.8	$\sqrt{\text{---}}$	3.2
$\sqrt{\text{---}}$	0.2	$\sqrt{\text{---}}$	0.8	$\sqrt{\text{---}}$	3.2

... TOLLERANZE SI INTENDONO LINEARI = 0.1 CONCENTR...
... INDICATO LA RUGOSITA' SI INTENDE ...
DISTR...
OTT...
0.0...



flowing ideas

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