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catalogue 2019

dal 1954 made in Italy

Barberi®

RUBINETTERIE INDUSTRIALI s.r.l.

1954 65 years 2019

CA2019r0-EN

catalogue 2019

1954 65 years 2019

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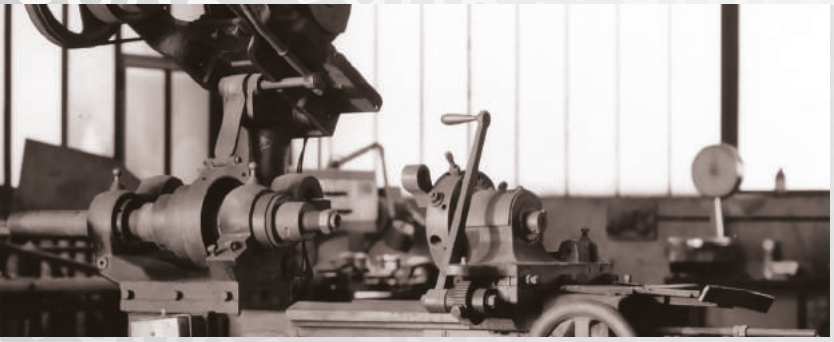
DISCOVER ALL THE CONTENTS
ON OUR WEBSITE



Explore our **COMPANY** and look at our **HISTORY**

Keep updated about the **NEWS** in our product range and about the technical **DOCUMENTATION**

BARBERI WORLD

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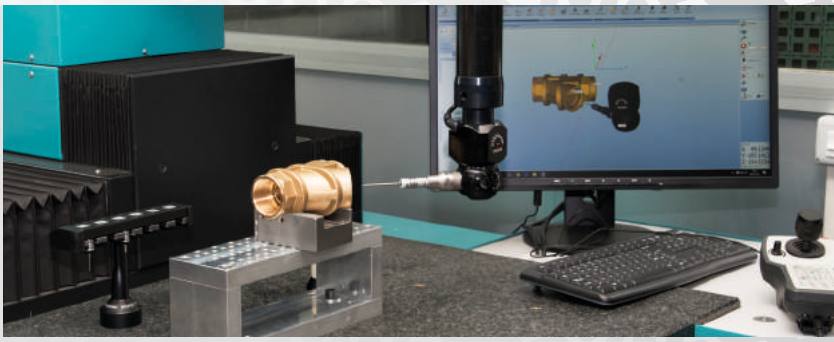
Be part of all scheduled EVENTS

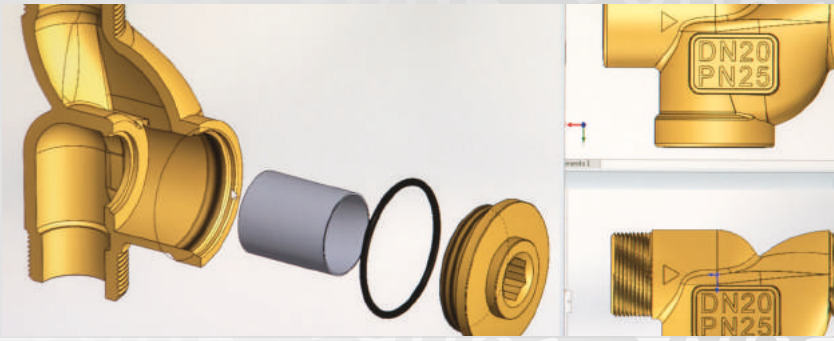
Become part of the PROUD TO B universe

proud to B



Find out all the information about the OEM design service

BARBERI OEM



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INDEX

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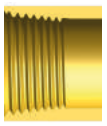
BARBERI® PRODUCTS

BARBERI WORLD		TYPE OF CIRCUIT		TYPE OF INSTALLATION		
		DHW	HEATING	SOLAR	BIOMASS	HEAT PUMPS
B1	Thermostatic mixing valves	⬡	⬡	⬡	⬡	
B2	Rotary mixing valves and actuators		⬡		⬡	
B3	Regulating groups and heating components		⬡		⬡	
B4	Components for solar thermal systems	⬡		⬡		
B5	Zone and diverting valves		⬡		⬡	⬡
B6	Air vents and deaerators		⬡	⬡		
B7	Check valves and foot valves	⬡	⬡	⬡		
B8	Impurity collecting filters	⬡	⬡			
B9	Ball shut-off valves and cocks	⬡	⬡	⬡		
B10	Monoblocs	⬡	⬡	⬡		
B11	Fittings	⬡	⬡	⬡	⬡	⬡

Barberi®

Designation of threads

Thread type and Standard	Shape of Male (M) and Female (F) threads	Designation by standard	Designation on Barberi catalogue
"Pipe threads where pressure tight joints are made on the threads" Gas threads according to EN 10226-1 (for R and Rp threads) EN 10226-2 (for R and Rc threads) (old standard ISO 7-1)	Taper external (male) threads 	R 1 1/4	R 1 1/4
	Parallel internal (female) threads 	Rp 1 1/4	Rp 1 1/4
	Taper internal (female) threads 	Rc 1 1/4	Rc 1 1/4
"Pipe threads where pressure tight joints are not made on the threads" Gas threads according to ISO 228/1	Parallel external (male) threads 	G 1 1/4 (A or B) (A or B) = tolerance class	G 1 1/4 M
	Parallel internal (female) threads 	G 1 1/4	G 1 1/4 F
	Nut with parallel internal (female) threads 	G 1 1/4	G 1 1/4 RN RN = running nut

Legend

The Best Seller product or suggested by Barberi

New: new product or new size

On Request: product available on request

Approvazione Water Regulations Advisory Scheme (UK)

Attestation de Conformité Sanitaire (F)

The products equipped with one of the following high-efficiency pumps (EEI≤0,20) are within the List of the Federal Office for Economic Affairs and Export Control (Germany):
- Wilo Para xx-130/7-50/SC
- Wilo Yonos Para 25-6 RKA/RKC
- Grundfos UPM3 Auto L xx-70
- Grundfos UPM3 Auto xx-70
- Grundfos UPM3 Solar xx-75

wall-mounted boiler

wall-mounted boiler with built-in DHW storage

solid fuel generator

solid fuel generator with built-in DHW storage

chiller

inertial or DHW storage

natural circulation solar

distribution manifold

distribution manifold with built-in hydraulic separator

coil heat exchanger

radiator

radiant panels

swimming pool

DHW tap

shower

high-efficiency pump

pump

motorized 3-way mixing valve

motorized 2-way zone valve

thermostatic 3-way valve

3-way valve

4-way valve

hydraulic separator

check valve

Y-filter

expansion vessel

safety relief valve

temperature pressure safety relief valve

solar air vent

pressure reducing valve

controller

room thermostat

radiator valve

lockshield

BA backflow preventer

anti-pollution device

timer

temperature gauge

pressure gauge

discharge tundish

ball shut-off valve

temperature probe

NB: system diagrams on this catalogue are simply drafts, they are not executive. Missing devices (valves, accessories, safety tools etc.) must be added according to applicable standards.

CERTIFICATIONS

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
64193-2009-AQ-ITA-SINCERT

Data prima emissione/Initial date:
08 settembre 2009

Validità:/Valid:
08 settembre 2018 - 08 settembre 2021

Si certifica che il sistema di gestione di/This is to certify that the management system of

BARBERI RUBINETTERIE INDUSTRIALI S.r.l. a Socio Unico

Via Monte Fenera, 7 - 13018 Valduggia (VC) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:

ISO 9001:2015

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione e vendita di rubinetterie e valvolame per riscaldamento, industria, agricoltura; produzione e vendita di accessori per macchine elettriche

(EA 18, 19)

This certificate is valid
for the following scope:

Design, manufacture and sale of valves for the heating , industry, agriculture; manufacture and sale of accessories for electrical machines

(EA 18, 19)

Luogo e Data/Place and date:
Vimercate (MB), 12 agosto 2018

ACCREDIA

Per l'Organismo di Certificazione/
For the Certification Body
DNV GL – Business Assurance
Via Energy Park, 14
20871 Vimercate (MB) - Italy

Zeno Beltrami
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy. TEL:039 68 99 905. www.dnvgl.it

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
91557-2011-AE-ITA-ACCREDIA

Data prima emissione/Initial date:
28 dicembre 2010

Validità:/Valid:
28 dicembre 2016 - 28 dicembre 2019

Si certifica che il sistema di gestione di/This is to certify that the management system of

BARBERI RUBINETTERIE INDUSTRIALI S.r.l. a Socio Unico

Via Monte Fenera, 7 - 13018 Valduggia (VC) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Ambientale/
Has been found to conform to the Environmental Management System standard:

ISO 14001:2015

Valutato secondo le prescrizioni del Regolamento Tecnico RT-09/
Evaluated according to the requirements of Technical Regulations RT-09

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione di accessori per macchine elettriche, rubinetterie e valvolame per riscaldamento, industria, agricoltura attraverso le fasi stampaggio a caldo dell'ottone, sabbiatura, lavorazioni meccaniche, assemblaggio, collaudo e confezionamento
(EA 18)

This certificate is valid
for the following scope:

Design, production of accessories for electrical equipment, plumbing fittings and valves for heating, industry, agriculture by brass hot pressing faces, sandblasting, mechanical tooling, assembling, testing and packaging
(EA 18)

Luogo e Data/Place and date:
Vimercate (MB), 23 agosto 2018

ACCREDIA

Per l'Organismo di Certificazione/
For the Certification Body
DNV GL – Business Assurance
Via Energy Park, 14 - 20871 Vimercate (MB) - Italy

Zeno Beltrami
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
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DNV GL Business Assurance Italia S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy. TEL:039 68 99 905. www.dnvgl.it

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THERMOSTATIC MIXING VALVES

B1

	TYPE AND FUNCTION				APPLICATION				MIXING VALVE SETTING (°C)							DIVERTING VALVE SETTING (°C)
Code	Side mix	Central mix	4-way	Diverting	DHW	Heat.	Solar DHW	Biomass	20-43	25-50	25-58	30-60	30-65	35-60	45-55-60-70	45
V07.AA	⬡				⬡	⬡			⬡							
V07.AA.L2	⬡				⬡	⬡			⬡							
V07.AA.L4	⬡				⬡	⬡			⬡							
V07.AB	⬡				⬡	⬡								⬡		
V07.AB.L2	⬡				⬡	⬡								⬡		
V07.AB.L4	⬡				⬡	⬡								⬡		
V07.BA	⬡				⬡	⬡			⬡							
V07.BA.L2	⬡				⬡	⬡			⬡							
V07.BB	⬡				⬡	⬡								⬡		
V07.BB.L2	⬡				⬡	⬡								⬡		
P10		⬡			⬡	⬡							⬡			
P10.L2		⬡			⬡	⬡							⬡			
P11		⬡			⬡	⬡							⬡			
P11.L2		⬡			⬡	⬡							⬡			
V17		⬡			⬡	⬡							⬡			
V17.L2		⬡			⬡	⬡							⬡			
P09		⬡			⬡	⬡							⬡			
P09.L2		⬡			⬡	⬡							⬡			
630			⬡			⬡						⬡				
630.10			⬡			⬡				⬡						
630.T			⬡			⬡						⬡				
630.1.2			⬡			⬡						⬡				
630.101			⬡			⬡				⬡						
630.1.2.T			⬡			⬡						⬡				
630.3			⬡			⬡						⬡				
630.103			⬡			⬡				⬡						
W51			⬡			⬡					⬡					
52D			⬡			⬡				⬡		⬡				

	TYPE AND FUNCTION				APPLICATION				MIXING VALVE SETTING (°C)							DIVERTING VALVE SETTING (°C)
Code	Side mix	Central mix	4-way	Diverting	DHW	Heat.	Solar DHW	Biomass	20-43	25-50	25-58	30-60	30-65	35-60	45-55-60-70	45
V16				⬡	⬡	⬡										⬡
V16.L2				⬡	⬡	⬡										⬡
P04		⬡					⬡						⬡			
P04.L2		⬡					⬡						⬡			
P04.L4		⬡					⬡						⬡			
P05		⬡					⬡						⬡			
P05.L2		⬡					⬡						⬡			
P05.L4		⬡					⬡						⬡			
V20	⬡			⬡			⬡							⬡		⬡
V20.L1	⬡			⬡			⬡							⬡		⬡
V20.L2	⬡			⬡			⬡							⬡		⬡
V13	⬡							⬡							⬡	
V13.L1	⬡							⬡							⬡	
V13.L2	⬡							⬡							⬡	
V14	⬡							⬡							⬡	
V14.L1	⬡							⬡							⬡	
V14.1.2	⬡							⬡							⬡	

THERMOSTATIC MIXING VALVES "L" COMFORT

V07.AA

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 20–43 °C

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***20–43 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 020 0AA	Rp 3/4	1	20	-
V07 M20 0AA	G 3/4 M	1	20	-
V07 M25 0AA	G 1 M	1	20	-

V07.AB

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 35–60 °C

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***35–60 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 020 0AB	Rp 3/4	1	20	-
V07 M20 0AB	G 3/4 M	1	20	-
V07 M25 0AB	G 1 M	1	20	-

V07.AA.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 20–43 °C. Fittings with check valve insert unassembled (V38.03)

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***20–43 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M20 0AA L2 TBS	G 3/4 M	1	20	-
V07 M25 0AA L2	G 1 M	1	10	-

V07.AB.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 35–60 °C. Fittings with check valve insert unassembled (V38.03)

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***35–60 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M20 0AB L2 TBS	G 3/4 M	1	20	-
V07 M25 0AB L2	G 1 M	1	10	-

V07.AA.L4

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 20–43 °C. Compression fittings with check valve insert unassembled

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***20–43 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M20 0AA L4	15 mm	1	20	-

V07.AB.L4

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,6 - range 35–60 °C. Compression fittings with check valves insert unassembled

Flow coefficient: ***Kv 1,6***
Temperature adjustment range: ***35–60 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M20 0AB L4	15 mm	1	20	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V07.BA

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,5 - range 20–43 °C

Flow coefficient: ***Kv 2,5***
Temperature adjustment range: ***20–43 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M25 0BA	G 1 M	1	20	-

V07.BB

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,5 - range 35–60 °C

Flow coefficient: ***Kv 2,5***
Temperature adjustment range: ***35–60 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M25 0BB	G 1 M	1	20	-

V07.BA.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,5 - range 20–43 °C. Fittings with check valves insert unassembled (V38.03)

Flow coefficient: ***Kv 2,5***
Temperature adjustment range: ***20–43 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M25 0BA L2 TBS	G 1 M	1	10	-

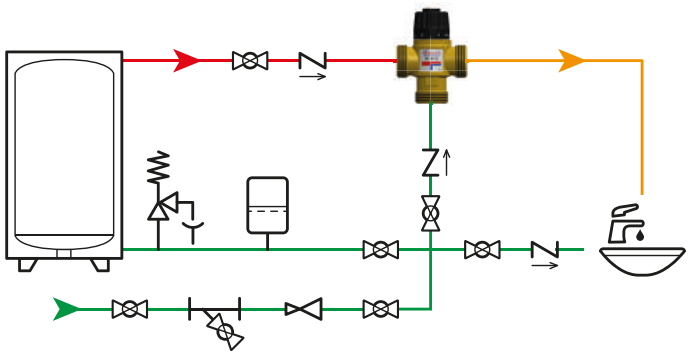
V07.BB.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,5 - range 35–60 °C. Fittings with check valves insert unassembled (V38.03)

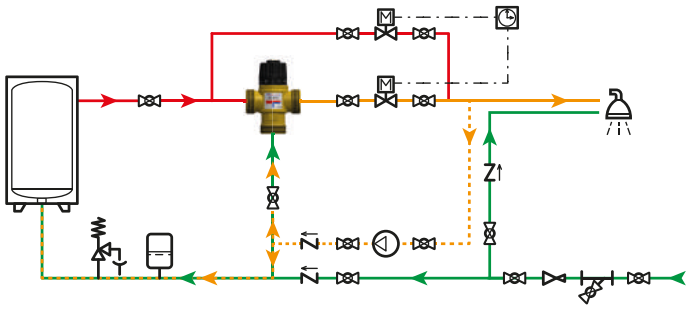
Flow coefficient: ***Kv 2,5***
Temperature adjustment range: ***35–60 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
V07 M25 0BB L2 TBS	G 1 M	1	10	-

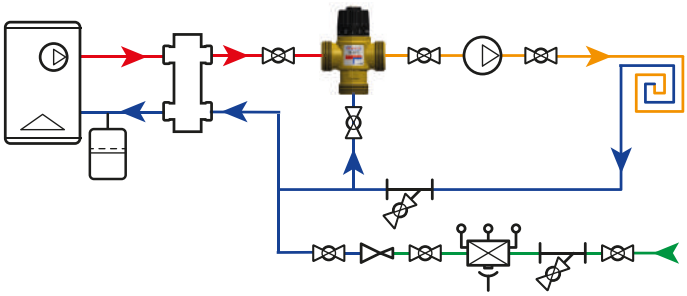
DHW production with direct supply to the user



DHW production with recirculation circuit



Fixed point regulation in radiant panel system



	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

THERMOSTATIC MIXING VALVES "T" COMFORT

P10

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,8 - range 30–65 °C

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 1,8

Code	Size			€
P10 A20 000	G 3/4 M	1	20	-
P10 A25 000	G 1 M	1	20	-

P10.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 1,8 - range 30–65 °C. Fittings with check valves insert unassembled (V38.04)

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 1,8

Code	Size			€
P10 A20 000 L2 TBS	G 3/4 M	1	20	-
P10 A25 000 L2	G 1 M	1	20	-

P11

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,3 - range 30–65 °C

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 2,3

Code	Size			€
P11 A20 000	G 3/4 M	1	20	-
P11 A25 000	G 1 M	1	20	-

P11.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - Kv 2,3 - range 30–65 °C - fittings with check valve insert unassembled V38.04

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 2,3

Code	Size			€
P11 A20 000 L2	G 3/4 M	1	20	-
P11 A25 000 L2 TBS	G 1 M	1	20	-

V17

Thermostatic mixing valve for hydro-thermal-sanitary systems - Kv 3,5 - range 30–65 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 3,5

Code	Size			€
V17 M32 0AA	G 1 1/4 M	1	10	-

V17.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - Kv 3,5 - range 30–65 °C - with fittings P93

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Kv 3,5

Code	Size			€
V17 M32 0AA L2 TBS	G 1 M	1	10	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

P09

Thermostatic mixing valve with pump connection - Kv 2,3 - range 30–65 °C

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
P09 A20 000 ONR	G 3/4 M - G 1 RN - G 3/4 M	1	20	-

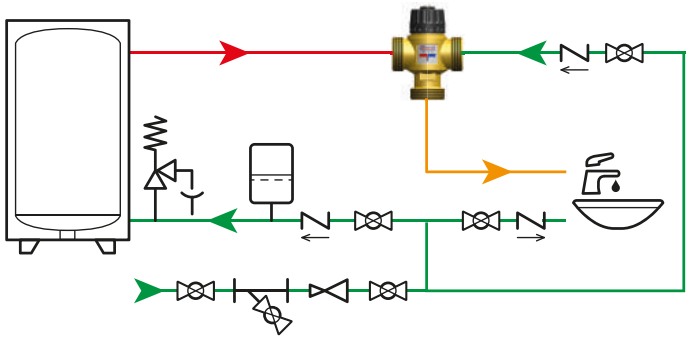
P09.L2

Thermostatic mixing valve with pump connection - Kv 2,3 - range 30–65 °C - fittings with check valve insert unassembled (V38.04)

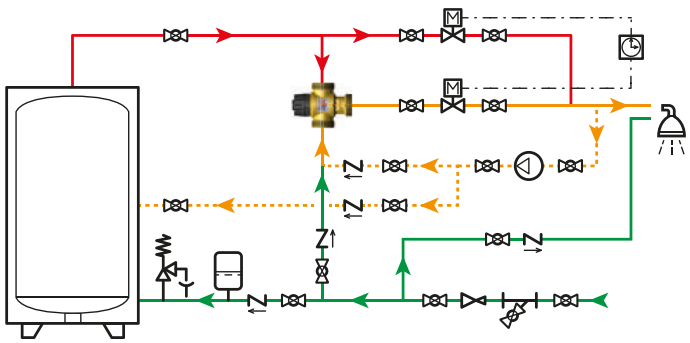
Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
P09 A20 000 L2 ONR	G 3/4 M - G 1 RN - G 3/4 M	1	20	-

DHW production with direct supply to the user



DHW production with recirculation circuit



P93

Fitting with running nut and flat gasket

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 000	G 1/2 M - G 3/4 RN	20	80	-
P93 020 000	G 3/4 M - G 1 RN	16	64	-
P93 025 000	G 1 M - G 1 1/4 RN	8	64	-
P93 032 000	G 1 1/4 M - G 1 1/2 RN	4	32	-

V38.03

3 fitting kit, supplied with gaskets and two check valve inserts suitable for thermostatic mixing valves

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 020 000 03	G 3/4 M - G 3/4 RN	1	20	-
V38 025 000 03	G 1 M - G 1 RN	1	20	-

V38.04

2 fitting kit with nut, supplied with gaskets and two check valve inserts suitable for thermostatic mixing valves

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 020 000 04	G 3/4 M - G 3/4 RN	1	20	-
V38 025 000 04	G 1 M - G 1 RN	1	20	-

630

4-way thermostatic mixing valve with 90° inlets - Kv 3,5 - range 30–60 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000	Rp 3/4	1	10	-

630.10

4-way thermostatic mixing valve with 90° inlets - Kv 3,5 - range 25–50 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 010	Rp 3/4	1	10	-

630.T

4-way thermostatic mixing valve with 90° inlets - Kv 3,5 - range 30–60 °C - side plug

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000 T TBS	Rp 3/4	1	10	-

630.1.2.N

4-way thermostatic mixing valve with 90° inlets - pump connection - Kv 3,5 - range 30–60 °C - flat gasket - nickel plated

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 N00 1	Rp 3/4 - G 1 1/2 RN	1	10	-
630 A20 N00 2 ONR	Rp 3/4 - G 1 RN	1	10	-

630.101.N

4-way thermostatic mixing valve with 90° inlets - pump connection - Kv 3,5 - range 25–50 °C - flat gasket - nickel plated

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 N10 1	Rp 3/4 - G 1 1/2 RN	1	10	-

630.1.2.T

4-way thermostatic mixing valve with 90° inlets - pump connection - Kv 3,5 - range 30–60 °C - flat gasket, side plug

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000 1T	Rp 3/4 - G 1 1/2 RN	1	10	-
630 A20 000 2T ONR	Rp 3/4 - G 1 RN	1	10	-

	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

630.3

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 30–60 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000 3	G 1 1/2 M - G 1 1/2 RN - G 1 M	1	6	-

630.103

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 25–50 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 010 3	G 1 1/2 M - G 1 1/2 RN - G 1 M	1	6	-

52D

Kit composed by thermostatic mixing valve, pump connection and T-joint on the return

Flow coefficient: ***Kv 3,5***
Max working temperature: ***90 °C***
Connection centre distance: ***125 mm***
Max working pressure: ***10 bar***

Code	Size	°C			€
52D 040 0T1	G 1 1/2 M - G 1 1/2 RN	25–50	1	8	-
52D 040 0T2	G 1 1/2 M - G 1 1/2 RN	30–60	1	8	-

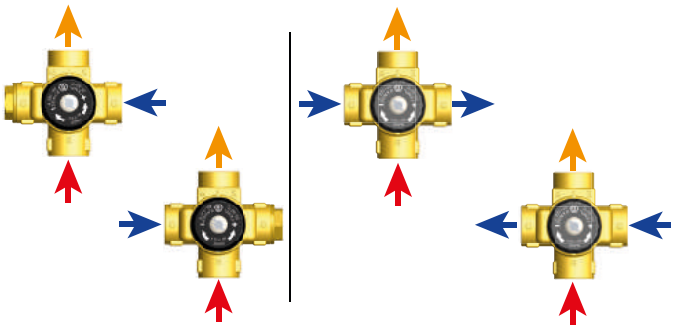
W51.N

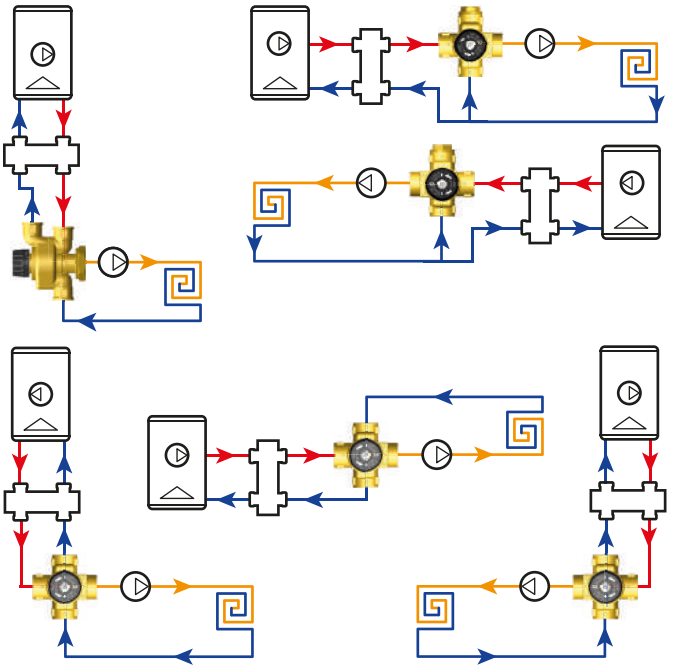
4-way thermostatic mixing valve "OCTOPUS" with mixed water at the central port and opposite inlets - pump connection - Kv 4,5 - range 25–58 °C - nickel plated

Flow coefficient: ***Kv 4,5***
Temperature adjustment range: ***25–58 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
W51 A20 N00	Rp 3/4 - G 1 1/2 RN	1	12	-

630: use of ports as 3 and 4-way valve - W51 and 630 for fixed point regulation in radiant panel system





THERMAL SOLAR THERMOSTATIC MIXING VALVES

P04

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000	G 3/4 M	1	20	-
P04 A25 000	G 1 M	1	20	-

P05

Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P05 A20 000	G 3/4 M	1	20	-
P05 A25 000	G 1 M	1	20	-

P04.L2

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C. Fittings and check valves insert unassembled (V38.04)

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000 L2 TBS	G 3/4 M	1	20	-
P04 A25 000 L2	G 1 M	1	20	-

P05.L2

Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C. Fittings and check valve insert unassembled (V38.04)

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P05 A20 000 L2	G 3/4 M	1	20	-
P05 A25 000 L2 TBS	G 1 M	1	20	-

P04.L4

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C. With compact fittings and check valve insert unassembled (V38.02)

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000 L4	G 3/4 M	1	20	-

P05.L4

Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C. With compact fittings and check valve insert unassembled (V38.02)

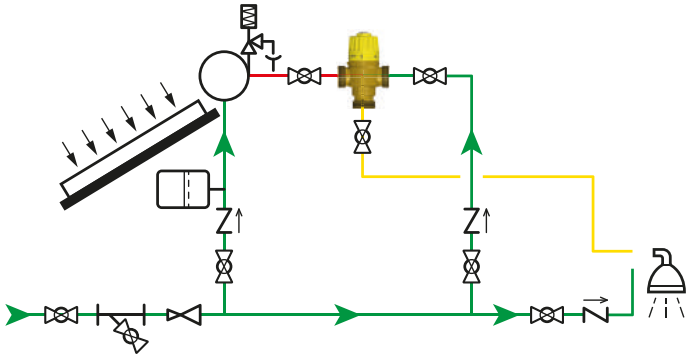
Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P05 A20 000 L4	G 3/4 M	1	20	-

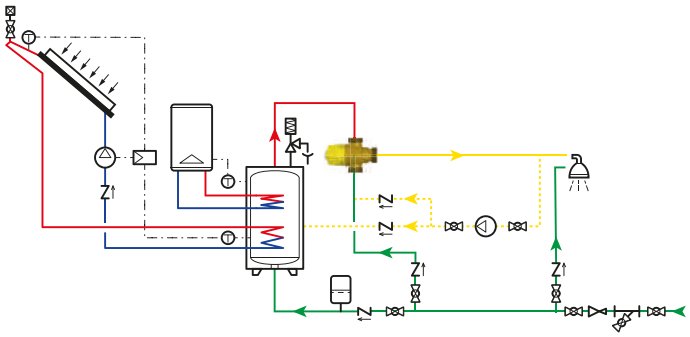
NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

THERMAL SOLAR THERMOSTATIC MIXING VALVES

Natural circulation solar system



Forced circulation solar and recirculation system



V38.02

2 fitting kit with flat face supplied with gaskets and check valve inserts for thermostatic mixing valves

Max working temperature: ***130 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 020 000 02	G 3/4 M - G 3/4 F	1	20	-

V38.03

3 fitting kit, supplied with gaskets and two check valve inserts suitable for thermostatic mixing valves

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 020 000 03	G 3/4 M - G 3/4 RN	1	20	-
V38 025 000 03	G 1 M - G 1 RN	1	20	-

V38.04

2 fitting kit with nut, supplied with gaskets and two check valve inserts suitable for thermostatic mixing valves

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 020 000 04	G 3/4 M - G 3/4 RN	1	20	-
V38 025 000 04	G 1 M - G 1 RN	1	20	-

V20

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001	G 1 M	1	10	-

V20.L1

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve - 5 fittings and 3 check valves inserts. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001 L1 TBS	G 1 M	1	6	-

V20.L2

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve - 5 fittings P93. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001 L2	G 3/4 M	1	6	-

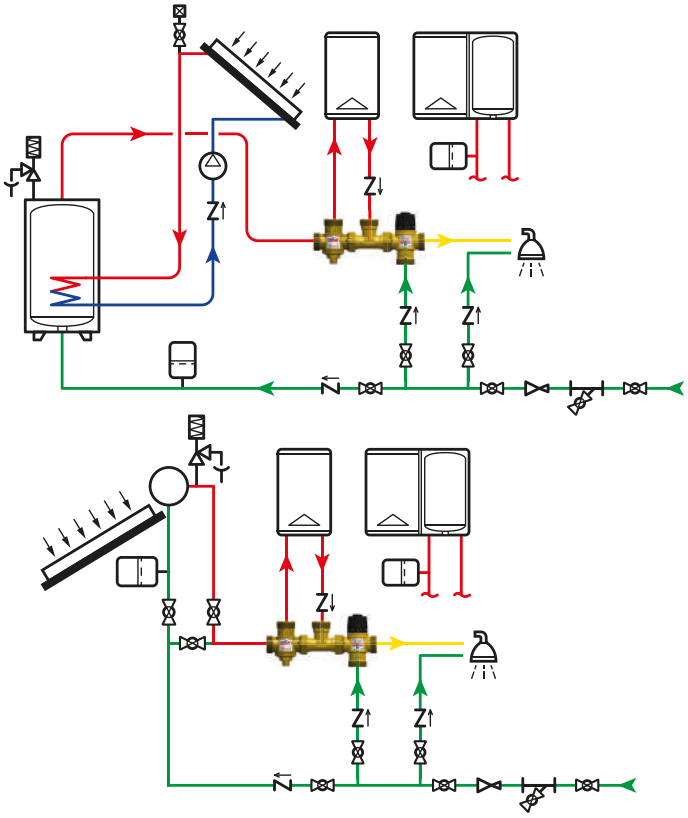
V20.1

Insulation for solar-to-boiler integration kit V20, V20.L1, V20.L2

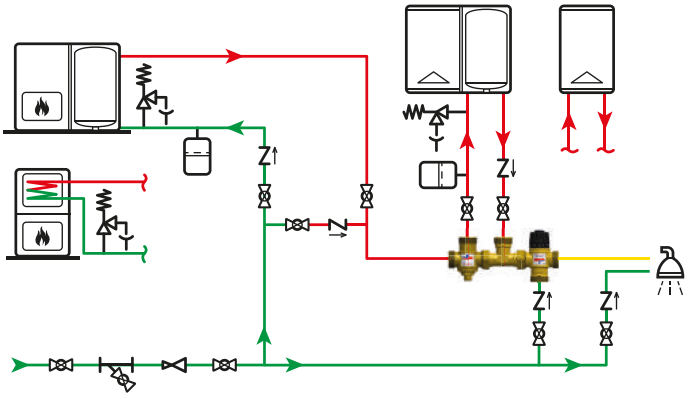
Max working temperature: ***140 °C***

Code	Size			€
V20 000 001	225 mm x 100 mm	-	-	-

V20 for integration: forced circulation solar-to-boiler; natural circulation solar-to-boiler



V20 for biomass-to-boiler integration



	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

V16

Thermostatic diverting valve with fixed setting - Kv 3,5

Flow coefficient: ***Kv 3,5***
Diverting valve setting: ***45 °C***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 3,5

Code	Size	°C			€
V16 M25 00A	G 1 M	45	1	20	-

V16.L2

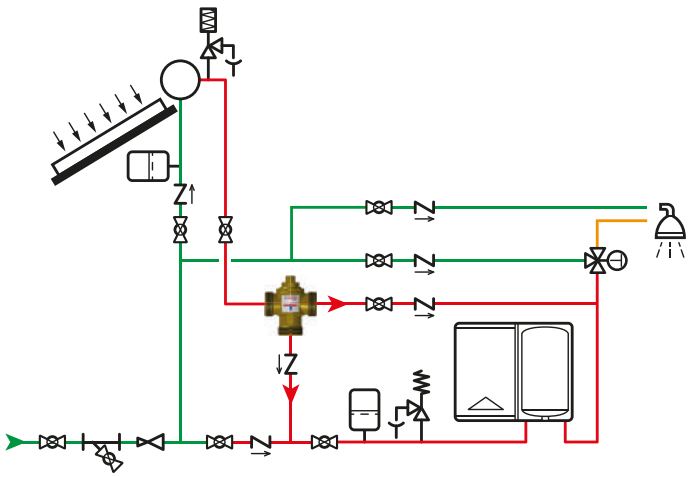
Thermostatic diverting valve with fixed setting - Kv 3,5 - with fittings P93

Flow coefficient: ***Kv 3,5***
Diverting valve setting: ***45 °C***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 3,5

Code	Size	°C			€
V16 M25 00A L2	G 3/4 M	45	1	10	-

V16: solar DHW supply to user or integration with a boiler



ANTI-CONDENSATION THERMOSTATIC MIXING VALVES

V13 woody

Anti-condensation thermostatic mixing valve for solid fuel generators - Kv 3,2

Flow coefficient: ***Kv 3,2***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 3,2

Code	Size	°C			€
V13 M25 00A	G 1 M	45	1	20	-
V13 M25 00B	G 1 M	55	1	20	-
V13 M25 00C	G 1 M	60	1	20	-
V13 M25 00D	G 1 M	70	1	20	-

V13.L1 woody

Anti-condensation thermostatic mixing valve for solid fuel generators - Kv 3,2 - with reduced fittings P93

Flow coefficient: ***Kv 3,2***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 3,2

Code	Size	°C			€
V13 M25 00A L1	G 3/4 M	45	1	20	-
V13 M25 00B L1	G 3/4 M	55	1	20	-
V13 M25 00C L1	G 3/4 M	60	1	20	-
V13 M25 00D L1	G 3/4 M	70	1	20	-

V13.5R woody

Thermostatic element for anti-condensation thermostatic mixing valve V13, V13.L1, V13.L2 and V13.1.2

Setting temperature: ***45-55-60-70 °C***

Code	°C			€
V13 025 005 AR	45	-	-	-
V13 025 005 BR	55	-	-	-
V13 025 005 CR	60	-	-	-
V13 025 005 DR	70	-	-	-

V13.L2 woody

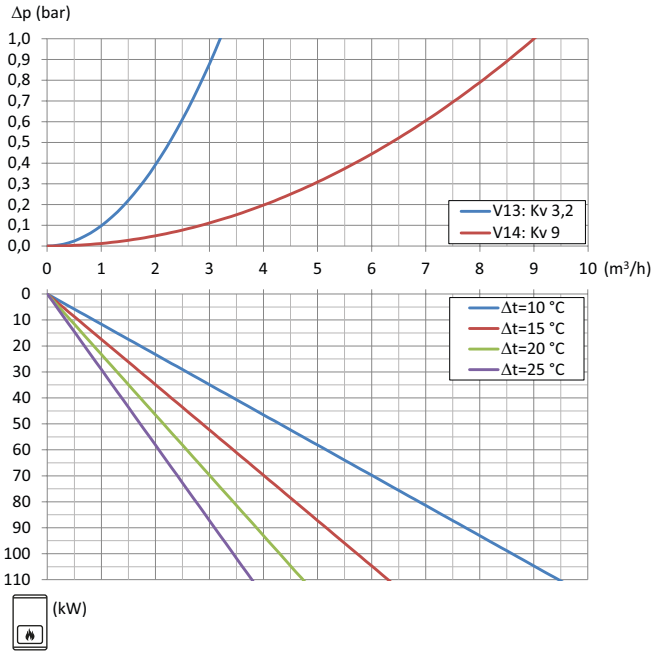
Anti-condensation thermostatic mixing valve for solid fuel generators - Kv 3,2 - with fittings Y77.2

Flow coefficient: ***Kv 3,2***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 3,2

Code	Size	°C			€
V13 M25 00A L2	G 1 M	45	1	20	-
V13 M25 00B L2	G 1 M	55	1	20	-
V13 M25 00C L2	G 1 M	60	1	20	-
V13 M25 00D L2	G 1 M	70	1	20	-

Sizing of V13 and V14



Anti-condensation valve sizing:
- enter the lower diagram with the solid fuel generator power output value (vertical axis, kW);
- cross the line of the working delta temperature (°C);
- read the corresponding working flow rate value on the horizontal axis (m3/h);
- in the the upper diagram, at the same flow rate value, cross the hydraulic characteristic lines of the valves;
- read the corresponding valve head loss value on the vertical axis (bar);
- sum this head loss to the circuit head losses and compare them to the available pump head.

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V14 woody

Anti-condensation thermostatic mixing valve for solid fuel generators - Kv 9

Flow coefficient: ***Kv 9***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 9

Code	Size	°C			€
V14 025 00A	Rp 1	45	1	12	-
V14 M32 00A	G 1 1/4 M	45	1	12	-
V14 025 00B TBS	Rp 1	55	1	12	-
V14 M32 00B	G 1 1/4 M	55	1	12	-
V14 025 00C	Rp 1	60	1	12	-
V14 M32 00C	G 1 1/4 M	60	1	12	-
V14 025 00D	Rp 1	70	1	12	-
V14 M32 00D	G 1 1/4 M	70	1	12	-

V14.L1 woody

Anti-condensation thermostatic mixing valve for solid fuel generators - Kv 9 - with reduced fittings P93

Flow coefficient: ***Kv 9***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 9

Code	Size	°C			€
V14 M32 00A L1	G 1 M	45	1	12	-
V14 M32 00B L1 TBS	G 1 M	55	1	12	-
V14 M32 00C L1	G 1 M	60	1	12	-
V14 M32 00D L1	G 1 M	70	1	12	-

V14.5R woody

Thermostatic element for anti-condensation thermostatic mixing valve V14, V14.L1, V14.1

Setting temperature: ***45-55-60-70 °C***

Code	°C			€
V14 025 005 AR	45	-	-	-
V14 025 005 BR	55	-	-	-
V14 025 005 CR	60	-	-	-
V14 025 005 DR	70	-	-	-

V14.1 woody

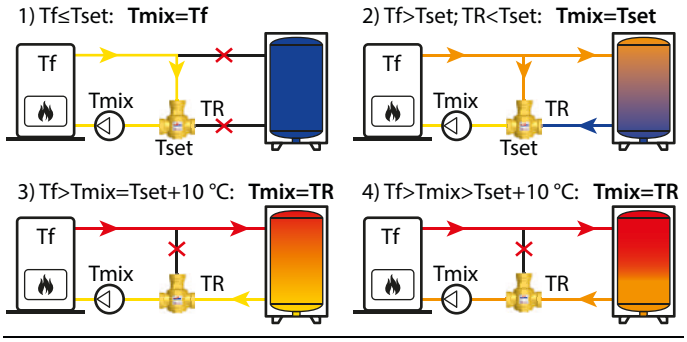
Anti-condensation thermostatic mixing valve for solid fuel generators - pump connection - male connection - Kv 9

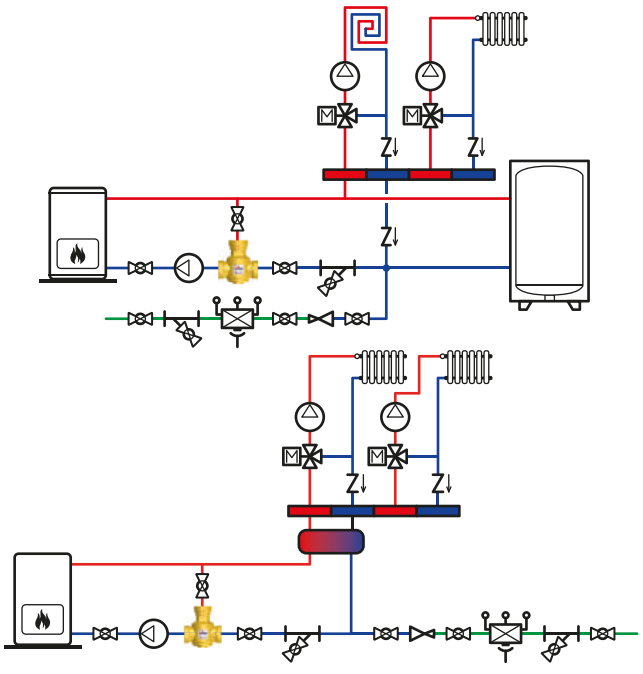
Flow coefficient: ***Kv 9***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 9

Code	Size	°C			€
V14 M32 00A 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	45	1	12	-
V14 M32 00B 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	55	1	12	-
V14 M32 00C 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	60	1	12	-
V14 M32 00D 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	70	1	12	-

Operating principle of V13-V14 and diagrams with buffer storage and direct connection





Y77.2

Fitting with running nut and flat gasket - M and F connection of the same size

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y77 A25 000 2	G 1 M - G 1 RN	20	80	-

P93

Fitting with running nut and flat gasket

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 000	G 1/2 M - G 3/4 RN	20	80	-
P93 020 000	G 3/4 M - G 1 RN	16	64	-
P93 025 000	G 1 M - G 1 1/4 RN	8	64	-
P93 032 000	G 1 1/4 M - G 1 1/2 RN	4	32	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

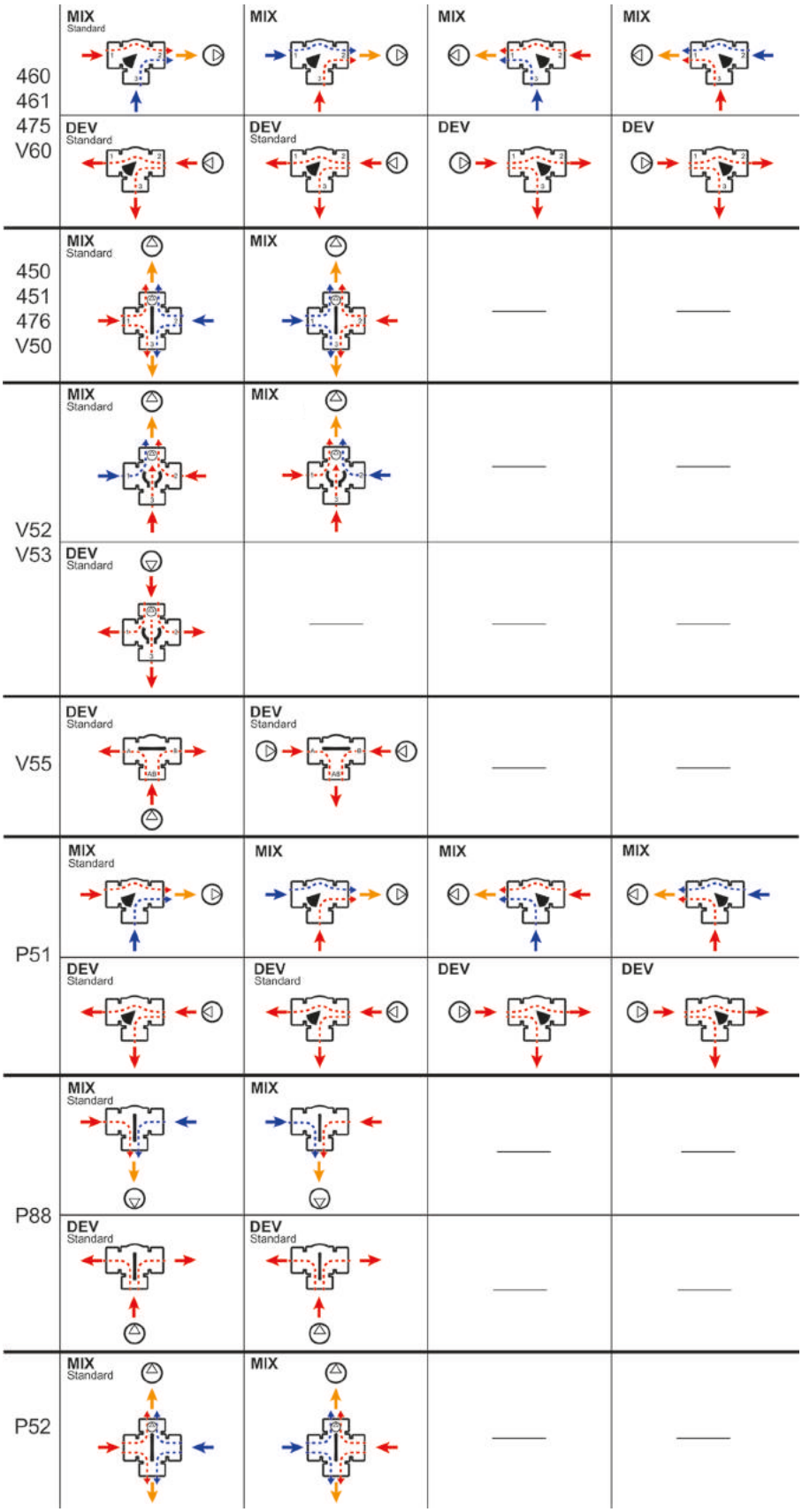
ROTARY MIXING VALVES AND ACTUATORS

B2





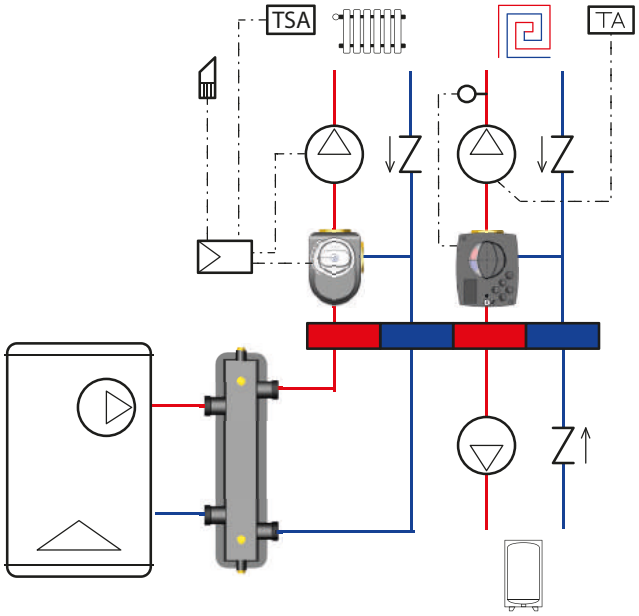

Use as mixing or diverting valve



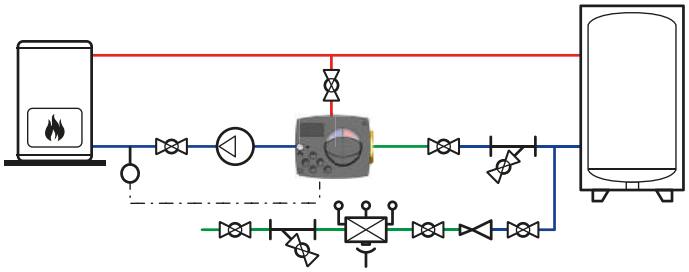
This table shows the use of the valves in mixing (MIX) or diverting mode (DEV). The valves are supplied with the factory configuration called "Standard". Ports can be used according to the other configurations indicated in the table.

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

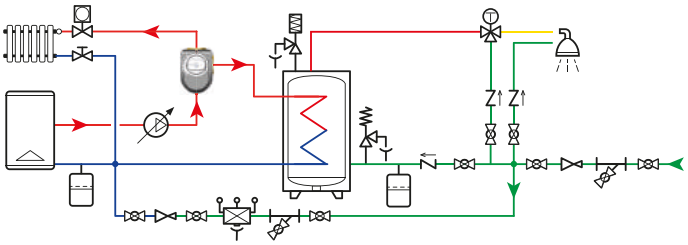
460 mixing valve with M03.3 actuator and weather compensated regulation, 460 mixing valve with P27T2 actuator and fixed point regulation.



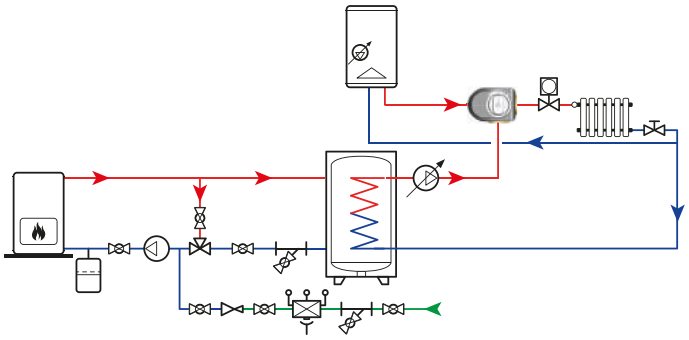
Use of 3-way valves with P27T2 actuator with anti-condensation function



Use of 3-way valves as priority between heating and DHW production



Coupling of two generators



460

New Design

3-way mixing valve - F

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
460 015 00M N	Rp 1/2	1,6	1	10	-
460 015 00M A	Rp 1/2	2,5	1	10	-
460 020 00M B	Rp 3/4	4	1	10	-
460 020 00M C TBS	Rp 3/4	6	1	10	-
460 025 00M D TBS	Rp 1	8	1	10	-
460 025 00M E	Rp 1	12	1	10	-
460 032 00M F	Rp 1 1/4	15	1	10	-
460 032 00M G	Rp 1 1/4	18	1	10	-
460 040 00M L	Rp 1 1/2	26	1	8	-
460 050 00M M	Rp 2	40	1	8	-

461

New Design

3-way mixing valve - M

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
461 020 00M A	G 3/4 M	2,5	1	10	-
461 025 00M A	G 1 M	2,5	1	10	-
461 025 00M B	G 1 M	4	1	10	-
461 025 00M C	G 1 M	6	1	10	-
461 032 00M D	G 1 1/4 M	8	1	10	-
461 032 00M E	G 1 1/4 M	12	1	10	-
461 040 00M F	G 1 1/2 M	15	1	10	-
461 040 00M G	G 1 1/2 M	18	1	10	-

475

New Design

3-way mixing valve - compression ends

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
475 022 00M A ONR	22 mm	2,5	1	10	-
475 022 00M B ONR	22 mm	4	1	10	-
475 022 00M C ONR	22 mm	6	1	10	-
475 028 00M E ONR	28 mm	12	1	12	-

V60

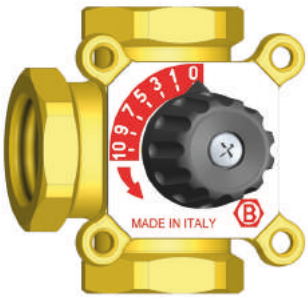
New Design

Double thread 3-way rotary mixing valve - MF. Male and female thread on each port.

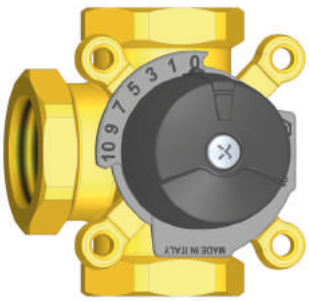
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
V60 025 00M D	G 1 F+G 1 1/2 M	8	1	10	-
V60 025 00M E	G 1 F+G 1 1/2 M	12	1	10	-

Mixing valves: restyling 2019



2018



2019

- *Same codes, performance and functionality of the previous product*
- *Aesthetic and ergonomic variations in the operation*
- *Completion of the renewal process scheduled for July 2019*

	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

450

New Design

4-way mixing valve - F

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
450 015 00M A	Rp 1/2	2,5	1	10	-
450 020 00M B	Rp 3/4	4	1	10	-
450 020 00M C TBS	Rp 3/4	6	1	10	-
450 025 00M D TBS	Rp 1	8	1	10	-
450 025 00M E	Rp 1	12	1	10	-
450 032 00M F	Rp 1 1/4	15	1	10	-
450 032 00M G	Rp 1 1/4	18	1	10	-
450 040 00M L	Rp 1 1/2	26	1	8	-
450 050 00M M	Rp 2	40	1	8	-

451

New Design

4-way mixing valve - M

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
451 020 00M A	G 3/4 M	2,5	1	10	-
451 025 00M B	G 1 M	4	1	10	-
451 025 00M C	G 1 M	6	1	10	-
451 032 00M D	G 1 1/4 M	8	1	10	-
451 032 00M E	G 1 1/4 M	12	1	10	-
451 040 00M F ONR	G 1 1/2 M	15	1	10	-
451 040 00M G ONR	G 1 1/2 M	18	1	10	-

441.I

Knob and screw kit for mixing valve manual setting

Code		€
441 015 011 I NEW		-

476

New Design

4-way mixing valve - compression ends

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
476 022 00M A ONR	22 mm	2,5	1	10	-
476 022 00M B ONR	22 mm	4	1	10	-
476 022 00M C ONR	22 mm	6	1	10	-

V50

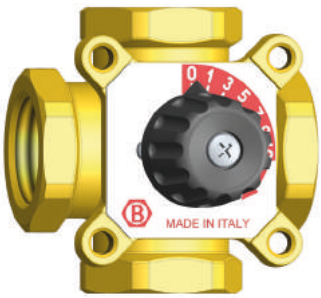
New Design

Double thread 4-way rotary mixing valve - MF. Male and female thread on each port.

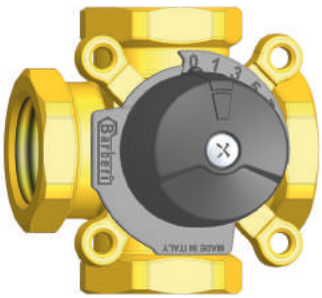
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
V50 025 00M D	G 1 F+G 1 1/2 M	8	1	10	-

Mixing valves: restyling 2019



2018



2019

- *Same codes, performance and functionality of the previous product*
- *Aesthetic and ergonomic variations in the operation*
- *Completion of the renewal process scheduled for July 2019*

BIVALENT ROTARY MIXING VALVE

V52

New Design

Bivalent 4-way mixing valve - F. Can be used as mixing valve (3 inlets, 1 oulet) and diverting valve (1 inlet, 3 outlets).

Working temperature range: ***0–110 °C***
Rotation angle: ***90°***
Obturator rotation torque: ***<5 N·m***
Leakage: ***<0,1%***
Suitable fluids: ***water for heating systems, glycol solutions (max 50%)***
Max working pressure: ***10 bar***

Code	Size	Kv			€
V52 020 0MC	Rp 3/4	6,3	1	10	-
V52 025 0MI	Rp 1	10	1	10	-

V53

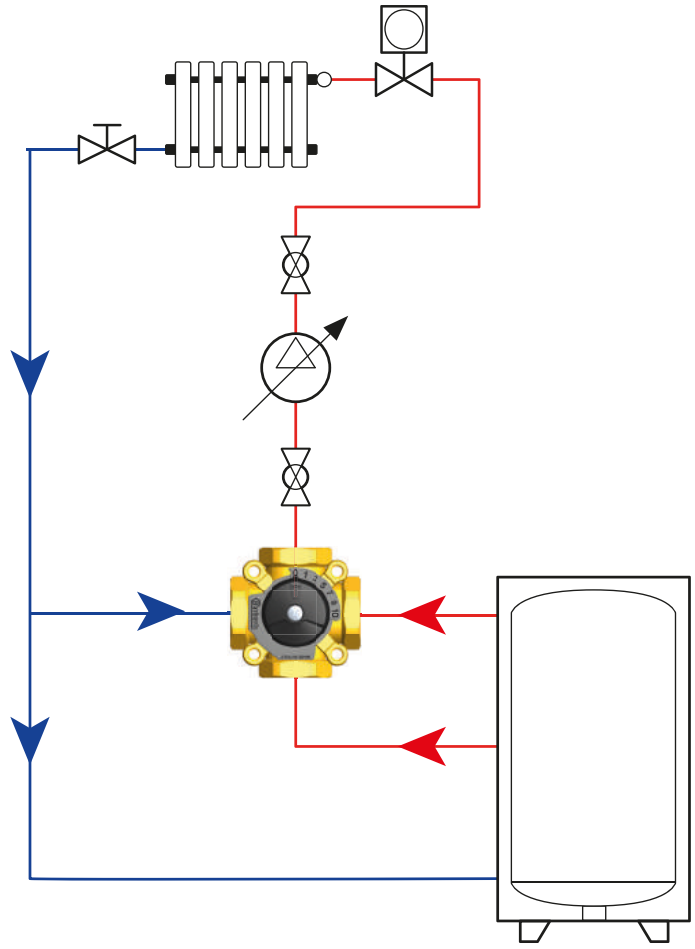
New Design

Bivalent 4-way mixing valve - M. Can be used as mixing valve (3 inlets, 1 oulet) and diverting valve (1 inlet, 3 outlets)

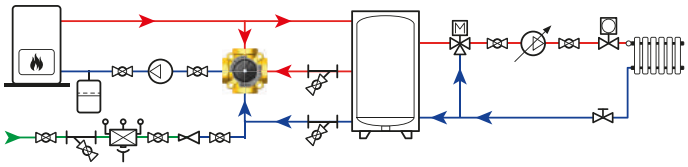
Working temperature range: ***0–110 °C***
Rotation angle: ***90°***
Obturator rotation torque: ***<5 N·m***
Leakage: ***<0,1%***
Suitable fluids: ***water for heating systems, glycol solutions (max 50%)***
Max working pressure: ***10 bar***

Code	Size	Kv			€
V53 025 0MC	G 1 M	6,3	1	10	-
V53 032 0MI	G 1 1/4 M	10	1	10	-

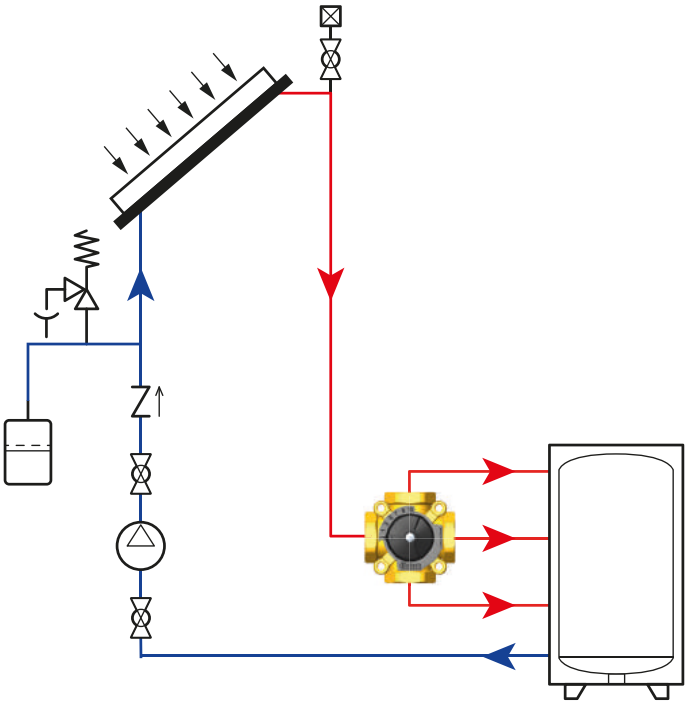
Use of V52 and V53 as mixing valves



Use of V52 and V52 valves with anti-condensation function



Use of V52 and V53 as diverting valves



	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

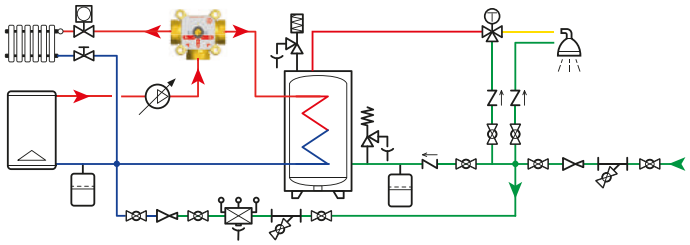
V55

Motorized rotary diverting valve - F. Complete with actuator with 90° rotation angle, 2 point type, on/off regulation, blocking screw, valve adaptor, anti-rotation pin, 1 m integrated cable, output contact in tension.

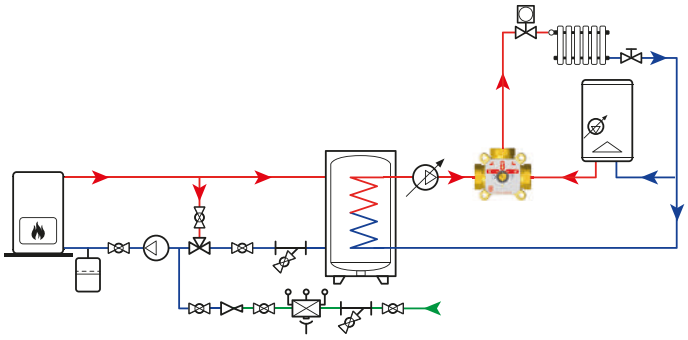
Max working temperature: ***110 °C***
Leakage: ***<0,1%***
Suitable fluids: ***water for heating systems, glycol solutions (max 50%)***
Max working pressure: ***10 bar***
Torque: ***6 N·m***
Rotation angle: ***90°***
Protection class: ***IP 44***
Frequency: ***50–60 Hz***
Power consumption: ***5 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
V55 015 00A B	Rp 1/2	4	230	22	4	1	1	10	-
V55 020 00A D	Rp 3/4	8	230	22	4	1	1	10	-
V55 025 00A E	Rp 1	12	230	22	4	1	1	10	-
V55 032 00A F	Rp 1 1/4	15	230	22	4	1	1	10	-

Use of V55 as priority between heating and DHW production



Coupling of two generators



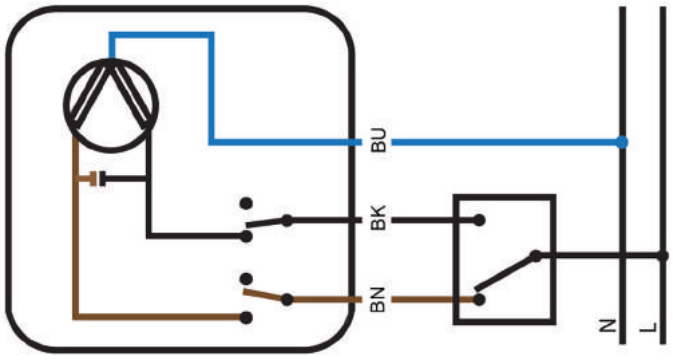
M03.3

Actuator for mixing valves, rotation angle 90°, 3 point regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable, auxiliary microswitch (only in 6 pole version)

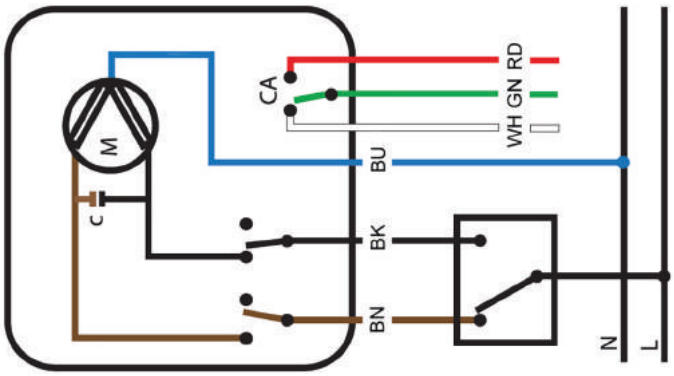
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 010 1DA B TBS	230	120	3	1,5	1	16	-
M03 010 1GA B	230	120	6	1,5	1	16	-
M03 010 1DB B	230	60	3	1,5	1	16	-
M03 010 1GB B	230	60	6	1,5	1	16	-
M03 010 2DA B	24	120	3	1,5	1	16	-
M03 010 2GA B	24	120	6	1,5	1	16	-
M03 010 2DB B	24	60	3	1,5	1	16	-
M03 010 2GB B	24	60	6	1,5	1	16	-

Wiring diagram M03.3, 3 points



Wiring diagram M03.3, 3 points with aux. microswitch



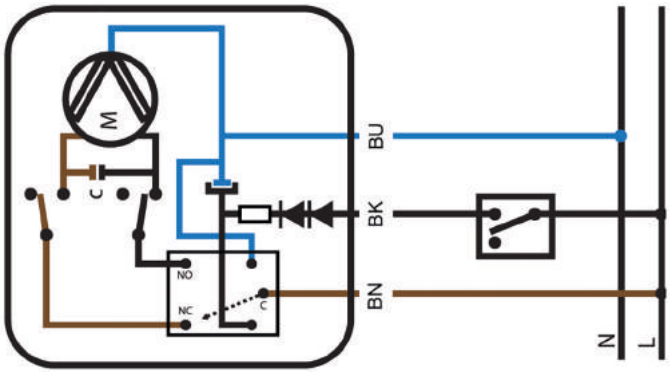
M03.2

Actuator for mixing valves (diverting working mode), rotation angle 90°, on/off regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable, auxiliary microswitch (only in 6 pole version)

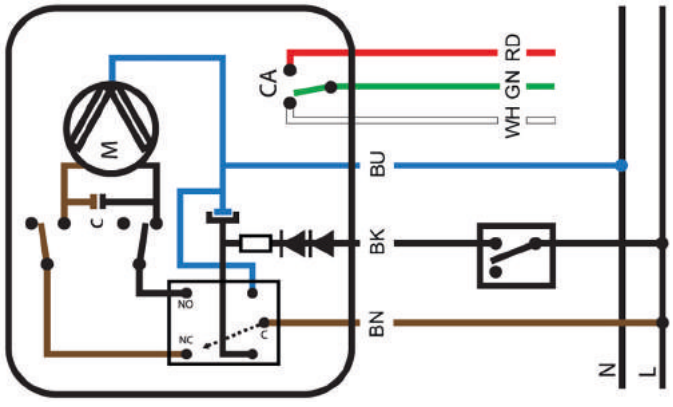
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 010 1AA B	230	120	3	1,5	1	16	-
M03 010 1HA B	230	120	6	1,5	1	16	-
M03 010 1AB B	230	60	3	1,5	1	16	-
M03 010 1HB B	230	60	6	1,5	1	16	-
M03 010 2AA B	24	120	3	1,5	1	16	-
M03 010 2AB B	24	60	3	1,5	1	16	-

Wiring diagram M03.2, 2 points



Wiring diagram M03.2, 2 points with aux. microswitch



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

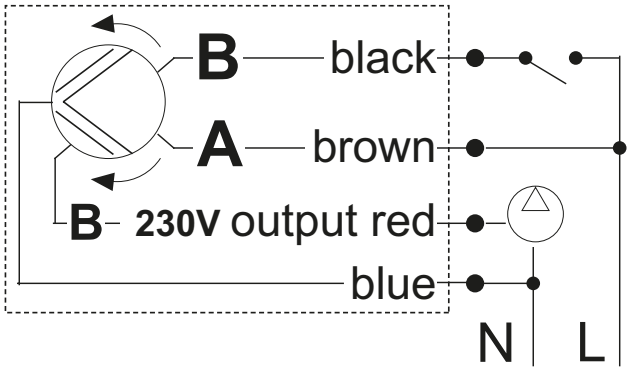
M03.21

Spare actuator for V55 diverting valves, rotation angle 90°, 2 point type, on/off regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1 m integrated cable, output contact in tension.

Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 005 1BD A	230	22	4	1	1	10	-

Wiring diagram M03.3, 3 points for diverting valve



M03.K

Spare part kit for M03.3 and M03.2 actuators. Complete with knob, indicator, blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M03 000 000 K	1	-	-

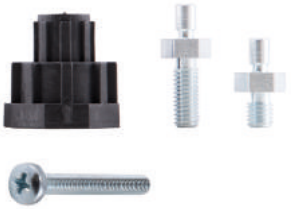
P27T2

Actuator for mixing valves, rotation angle 90°, for 3 point regulation with integrated probe and temperature regulator. Temperature adjustment range 5–95 °C. Complete with blocking screw, mixing valve adaptor, anti-rotation pin, Pt 1000 probe (1,6 m cable), contact probe holder, integrated Shuko electrical plug (1,9 m cable).

Temperature adjustment range: ***5–95 °C***
Torque: ***6 N·m***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***1,5 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
P27 230 010 T2 TBS	230	120	2	1,9	1	10	-

M04.K



Spare part kit for P27T2 and M04. actuators. Complete with blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M04 000 000 K NEW	1	-	-

	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

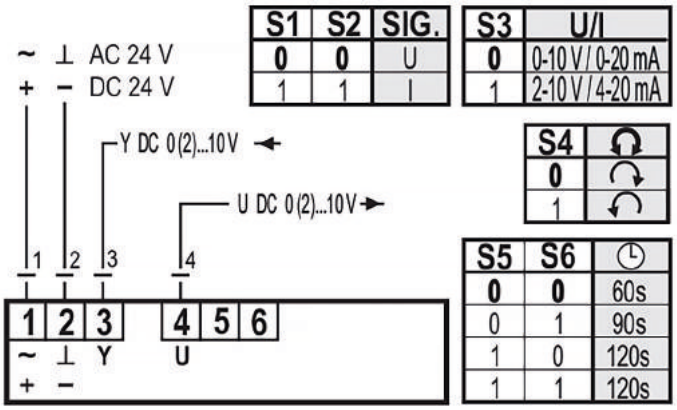
M04

Actuator for mixing valves, rotation angle 90°, proportional regulation 0 (2)-10 V. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,95 m integrated cable

Torque: ***5 N·m***
Feedback: ***0–10 V/4–20 mA***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***4 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M04 010 3MA B	24	60 - 90 - 120	4	1,95	1	10	-

Wiring diagram M04 0(2)–10 V



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

P51

3-way flanged sector mixing valve - PN 6

Max working temperature: ***120 °C***
Max working pressure: ***6 bar***
Material: ***cast iron***

Code	Size	Kv		€
P51 040 00M M	DN 40	41	1	-
P51 050 00M N TBS	DN 50	65	1	-
P51 065 00M O	DN 65	100	1	-
P51 080 00M P	DN 80	185	1	-
P51 100 00M Q	DN 100	310	1	-
P51 125 00M R	DN 125	510	1	-
P51 150 00M S	DN 150	820	1	-

P52

4-way flanged butterfly mixing valve - PN 6

Max working temperature: ***120 °C***
Max working pressure: ***6 bar***
Material: ***cast iron***

Code	Size	Kv		€
P52 040 00M M	DN 40	41	1	-
P52 050 00M N	DN 50	65	1	-
P52 065 00M O	DN 65	100	1	-
P52 080 00M P	DN 80	185	1	-
P52 100 00M Q	DN 100	310	1	-
P52 125 00M R	DN 125	510	1	-
P52 150 00M S	DN 150	820	1	-

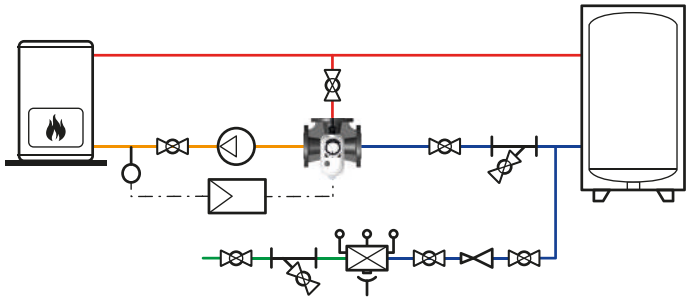
P88

3-way flanged butterfly mixing valve - PN 6

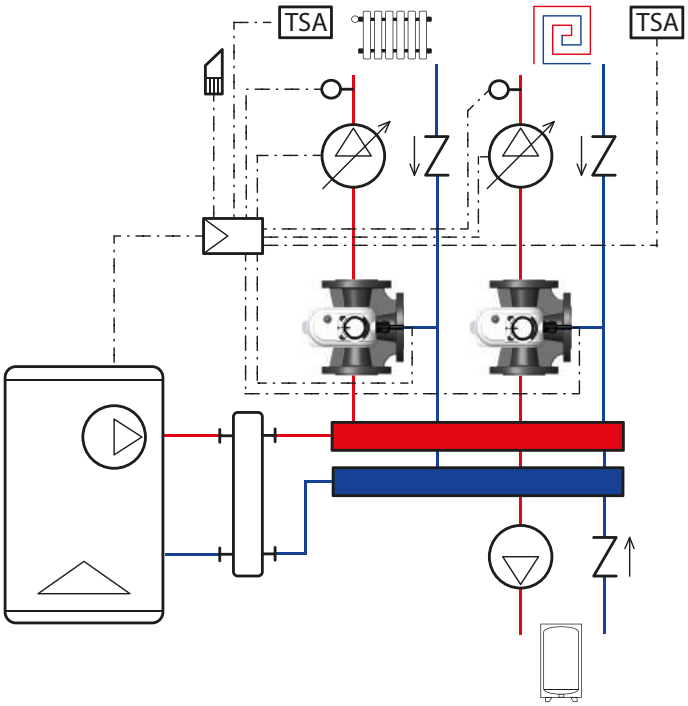
Max working temperature: ***120 °C***
Max working pressure: ***6 bar***
Material: ***cast iron***

Code	Size	Kv		€
P88 040 00M M	DN 40	41	1	-
P88 050 00M N	DN 50	65	1	-
P88 065 00M O	DN 65	100	1	-
P88 080 00M P	DN 80	185	1	-
P88 100 00M Q	DN 100	310	1	-
P88 125 00M R	DN 125	510	1	-
P88 150 00M S	DN 150	820	1	-

Use of P51 valve with anti-condensation function



P51 mixing valve with weather compensated regulation



M01.K

Actuator for flanged mixing valves, rotation angle 90°, 3 point regulation, with auxiliary microswitch and assembling kit (art. P87)

Torque: ***20 N·m***
Protection class: ***IP 54***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M01 020 2FA AK	24	120	5	0,9	1	12	-

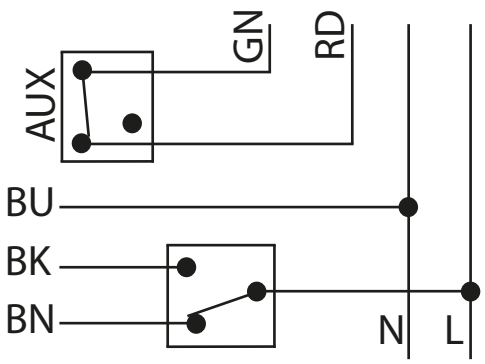
M01

Actuator for flanged mixing valves, rotation angle 90°, 3 point regulation, with auxiliary microswitch, without valve assembling kit

Torque: ***20 N·m***
Protection class: ***IP 54***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M01 020 2FA A	24	120	5	0,9	1	12	-

Wiring diagram M01, 3 points with aux. microswitch



M07.K

Actuator for flanged mixing valves, rotation angle 90°, 3 point regulation, with auxiliary microswitch and assembling kit (art. P87)

Torque: ***18 N·m***
Protection class: ***IP 65***
Frequency: ***50–60 Hz***
Power consumption: ***4,5 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M07 018 10A AK TBS	230	120	6	0,75	1	12	-

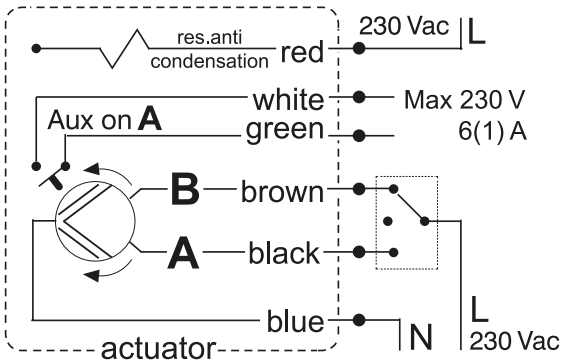
M07

Actuator for flanged mixing valves, rotation angle 90°, 3 point regulation, with auxiliary microswitch, without valve assembling kit

Torque: ***18 N·m***
Protection class: ***IP 65***
Frequency: ***50–60 Hz***
Power consumption: ***4,5 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M07 018 10A A	230	120	6	0,75	1	12	-

Wiring diagram M07, 3 points with aux. microswitch



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

M07.3QK

Actuator for flanged mixing valves, rotation angle 90°, 0–10 V regulation, with assembling kit (art. P87)

Torque: ***15 N·m***
Protection class: ***IP 65***
Frequency: ***50–60 Hz***
Power consumption: ***6 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M07 015 3QA AK	24 ac/dc	120	6	0,75	1	12	-

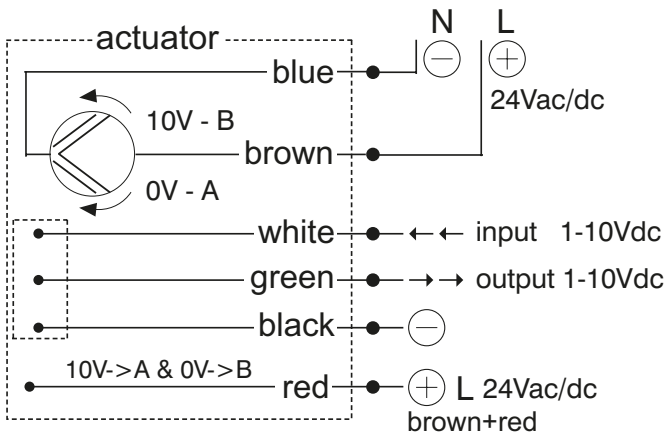
M07.3Q

Actuator for flanged mixing valves, rotation angle 90°, 0–10 V regulation, without valve assembling kit

Torque: ***15 N·m***
Protection class: ***IP 65***
Frequency: ***50–60 Hz***
Power consumption: ***6 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M07 015 3QA A	24 ac/dc	120	6	0,75	1	12	-

Wiring diagram M07 0–10 V



P87

Assembling kit for flanged mixing valve actuator

Code			€
P87 000 00K	1	20	-

51D

Kit composed of mixing valve with by-pass, pump connection and T-joint on the return

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	Kv			€
51D 040 0C0	G 1 1/2 M - G 1 1/2 RN	6	1	8	-
51D 040 0I0	G 1 1/2 M - G 1 1/2 RN	10	1	8	-
51D 050 0G0	G 2 M - G 2 RN	18	1	8	-

41D

3-way mixing valve with by-pass fitted to be actuated - pump connection - distribution manifold connection

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

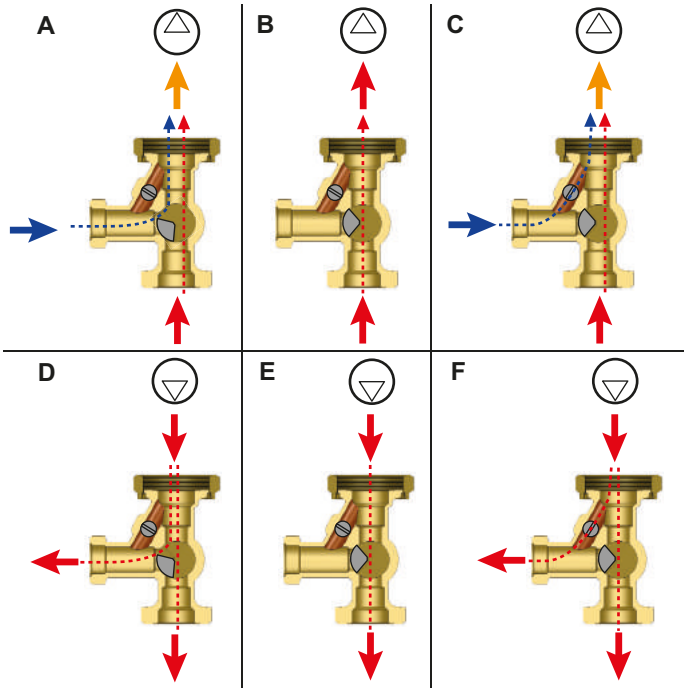
Code	Size	Kv			€
41D 040 000 C	G 1 1/2 M - G 1 M - G 1 1/2 RN	6	1	10	-
41D 040 000 I	G 1 1/2 M - G 1 M - G 1 1/2 RN	10	1	10	-
41D 050 000 G	G 2 M - G 1 1/4 M - G 2 RN	18	1	10	-

440.I

Knob and screw kit for mixing valve manual setting

Code		€
440 015 011 I		-

Operating principle of 41D and 51D



A- Mix with by-pass closed
B- Mix with hot port fully open and by-pass closed
C- Mix with hot port fully open and by-pass open
D- Diverting with by-pass closed
E- Diverting with straight way fully open
F- Diverting with both straight way and by-pass open

P93

Fitting with running nut and flat gasket

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 000	G 1/2 M - G 3/4 RN	20	80	-
P93 020 000	G 3/4 M - G 1 RN	16	64	-
P93 025 000	G 1 M - G 1 1/4 RN	8	64	-
P93 032 000	G 1 1/4 M - G 1 1/2 RN	4	32	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V38.05

Kit with Y fitting and immersion probe pocket

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 05	G 1/2 M	2	-	-
V38 020 000 05	G 3/4 M	2	-	-
V38 025 000 05	G 1 M	2	-	-
V38 032 000 05 ONR	G 1 1/4 M	2	-	-

Fitting V38.05 with pocket specific for immersion probe

V38.06

Kit with Y fitting and immersion probe holder with seal on the probe

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 06	G 1/2 M	2	-	-
V38 020 000 06	G 3/4 M	2	-	-
V38 025 000 06	G 1 M	2	-	-
V38 032 000 06 ONR	G 1 1/4 M	2	-	-

Fitting V38.06 with immersion probe holder with seal on the probe

	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

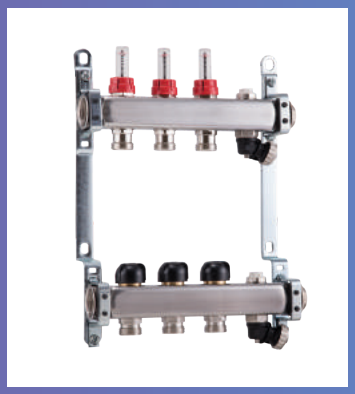
REGULATING GROUPS AND HEATING COMPONENTS

B3










DISTRIBUTION & REGULATING GROUPS

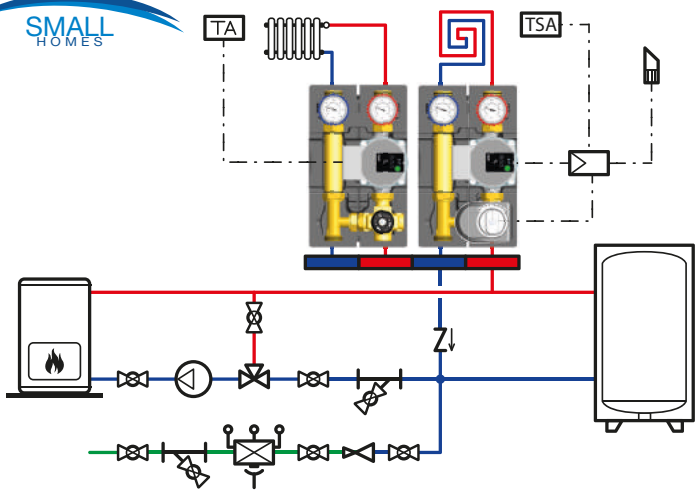
DN 20

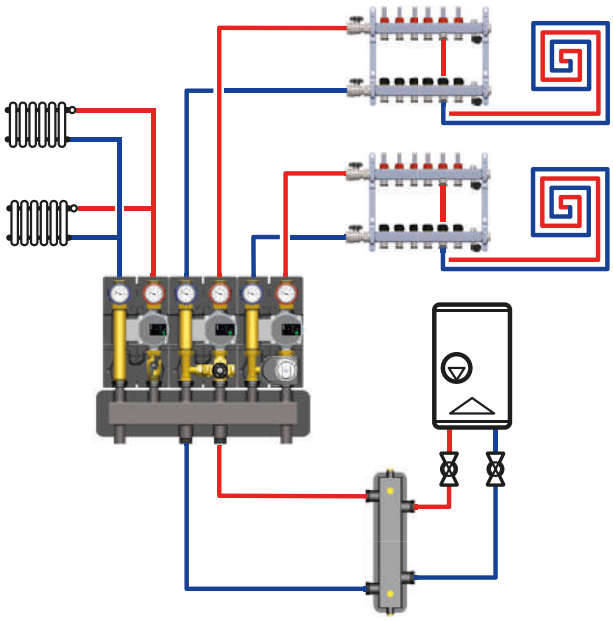
NEW

- COMPACT SOLUTION
- EASY INSTALLATION AND MAINTENANCE
- MULTIFUNCTION
- EVERYTHING UNDER CONTROL

DN 20

SMALL HOMES





DISTRIBUTION AND REGULATING GROUPS DN 20

Reversible
without connections for
by-pass
01G.DN20

Reversible
without connections for
by-pass
02G.DN20

Reversible
without connections for
by-pass
motorized
07G.04.DN20

Reversible
without connections for
by-pass
07G.DN20

MANIFOLDS

Only UP
3 m³/h
2 and 3 outlets
P72.DN20

With integrated hydraulic separator
3 m³/h
2 and 3 outlets
P74.DN20

ACCESSORIES

Bracket for wall mounting:
42D.DN20

PUMPS

Para 15-130/7

UPM3 Auto 15-70 130

UPSO 15-65 130 (Extra EU)

ACTUATORS

3 points, 230 V
M03.3

0(2)-10 V, 24 V
M04

Fixed point with display, 230 V
P27T2

ACCESSORIES

Bracket for wall mounting:
42D.DN25
42D.DN32

Ball shut-off valve:
39D, G 1 1/2 RN - G 1 1/2 M
50D.M50, G 2 RN - G 2 M

Optional versions of groups with tailpieces.
Tailpieces sold separately also:
44D.DN25
44D.DN32

DN 25 — MEDIUM HOMES

DN 32 — LARGE HOMES

MANIFOLDS

Only UP
3 m³/h
2, 3, 4, 5, 6
outlets
P72.DN25

Only UP
6,5 m³/h
2, 3 outlets
P72.DN32

UP/DOWN
3 m³/h
3, 5, 7 outlets
V34.DN25

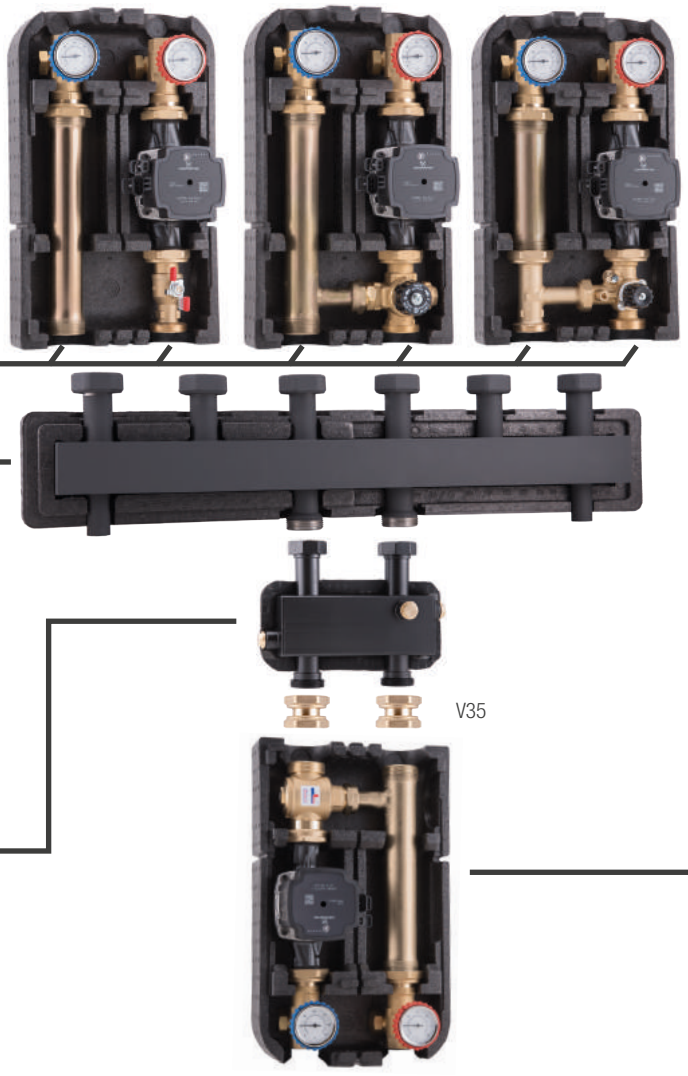
With integrated hydraulic separator
3 m³/h
2 and 3 outlets
P74

HYDRAULIC SEPARATORS

3 and 4,5 m³/h
P73.DN25
8 m³/h
P73.DN32

4 m³/h
22M.01

3 m³/h
21M.01



V35

PUMPS

UPM3 Auto 25-70 180
UPM3 Auto L 25-70 180
UPM3 Auto L 32-70 180
UPML 32-95 180

Yonos Para 25-6 RKA

UPSO 25-65 180
(Extra EU)
UPSO 32-65 180
(Extra EU)

DIRECT DISTRIBUTION GROUPS DN 25

Reversible
with connections for
by-pass
01G.DN25

Reversible
without connections for
by-pass
31G.DN25

Reversible
without connections for
by-pass
23G.DN25

FITTED FOR ENERGY METER

DIRECT DISTRIBUTION GROUP DN 32

Reversible
without connections for
by-pass
01G.DN32

THERMOSTATIC REGULATING GROUPS DN 25

Reversible
with connections for
by-pass
02G.DN25

Reversible
without connections for
by-pass
32G.DN25

Reversible
without connections for
by-pass
24G.DN25

FITTED FOR ENERGY METER

FIXED POINT MOTORIZED REGULATING GROUP DN 32

Reversible
without connections for
by-pass
07G.06.DN32

MOTORIZED REGULATING GROUPS DN 25

Reversible
with connections for
by-pass
07G.DN25-09G.DN25

Reversible
without connections for
by-pass
37G.DN25-39G.DN25

Reversible
without connections for
by-pass
25G.DN25

FITTED FOR ENERGY METER

Not reversible
with connections for
by-pass
03G.DN25-05G.DN25

Not reversible
without connections for
by-pass
33G.DN25-35G.DN25

MOTORIZED REGULATING GROUP DN 32

Reversible
without connections for
by-pass
07G.DN32

ANTI-CONDENSATION GROUPS DN 25

Thermostatic
reversible
without connections for
by-pass
15G.DN25

Fixed point motorized
reversible
without connections for
by-pass
20G.DN25

ANTI-CONDENSATION GROUP DN 32

Fixed point motorized
reversible
without connections for
by-pass
19G.DN32

ACTUATORS

3 points, 230 V
M03.3

0(2)-10 V, 24 V
M04

Fixed point with display, 230 V
P27T2

01G.DN20

Direct distribution group - reversible - DN 20 - without connections for by-pass. Male and female thread on system side connections

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***

Code		Size	Pump		€
01G 020 00X	NEW	G 1 M - (G 1 M+G 3/4 F)	WITHOUT PUMP	1	-
01G 020 00P	NEW	G 1 M - (G 1 M+G 3/4 F)	wilo Para 15-130/7-50/SC-9	1	-
01G 020 00L	ONR	G 1 M - (G 1 M+G 3/4 F)	GRUNDFOS UPM3 AUTO 15-70 130	1	-
01G 020 00F	NEW	G 1 M - (G 1 M+G 3/4 F)	GRUNDFOS (Extra EU) UPSO 15-65 130	1	-

BAFA LIST

02G.DN20

Regulating group with thermostatic mixing valve - reversible - DN 20 - without connections for by-pass. Male and female thread on system side connections

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***
Flow coefficient Kv of the mixing valve only

Code		Size	Kv	Pump	°C		€
02G 020 00X	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	WITHOUT PUMP	30–60	1	-
02G 020 00P	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	wilo Para 15-130/7-50/SC-9	30–60	1	-
02G 020 00L	ONR	G 1 M - (G 1 M+G 3/4 F)	3,5	GRUNDFOS UPM3 AUTO 15-70 130	30–60	1	-
02G 020 00F	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	GRUNDFOS (Extra EU) UPSO 15-65 130	30–60	1	-
02G 020 00X E	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	WITHOUT PUMP	25–50	1	-
02G 020 00P E	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	wilo Para 15-130/7-50/SC-9	25–50	1	-
02G 020 00L E	ONR	G 1 M - (G 1 M+G 3/4 F)	3,5	GRUNDFOS UPM3 AUTO 15-70 130	25–50	1	-
02G 020 00F E	NEW	G 1 M - (G 1 M+G 3/4 F)	3,5	GRUNDFOS (Extra EU) UPSO 15-65 130	25–50	1	-

BAFA LIST

07G.04.DN20

Regulating group with 3-way mixing valve fitted to be actuated - reversible - DN 20 - 3 point actuator - without connections for by-pass. Male and female thread on system side connections

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Flow coefficient Kv of the mixing valve only

Code		Size	Kv	V	Running time [s]	Nr. poles	Pump	Cable [m]		€
07G 020 04X	NEW	G 1 M - (G 1 M+G 3/4 F)	4	230	120	3	WITHOUT PUMP	1,5	1	-
07G 020 04P	NEW	G 1 M - (G 1 M+G 3/4 F)	4	230	120	3	wilo Para 15-130/7-50/SC-9	1,5	1	-
07G 020 04L	ONR	G 1 M - (G 1 M+G 3/4 F)	4	230	120	3	GRUNDFOS UPM3 AUTO 15-70 130	1,5	1	-
07G 020 04F	NEW	G 1 M - (G 1 M+G 3/4 F)	4	230	120	3	GRUNDFOS (Extra EU) UPSO 15-65 130	1,5	1	-

BAFA LIST

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

07G.DN20

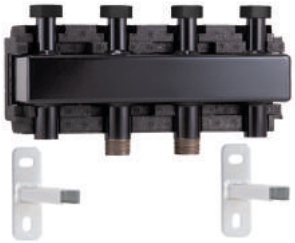
Regulating group with 3-way mixing valve fitted to be actuated - reversible - DN 20 - without connections for by-pass. Male and female thread on system side connections

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code		Size	Kv	Pump	📦	€
07G 020 00X	NEW	G 1 M - (G 1 M+G 3/4 F)	4	WITHOUT PUMP	1	-
07G 020 00P	NEW	G 1 M - (G 1 M+G 3/4 F)	4	wilo Para 15-130/7-50/SC-9	1	-
07G 020 00L	ONR	G 1 M - (G 1 M+G 3/4 F)	4	GRUNDFOS UPM3 AUTO 15-70 130	1	-
07G 020 00F	NEW	G 1 M - (G 1 M+G 3/4 F)	4	GRUNDFOS (Extra EU) UPSO 15-65 130	1	-

P72.DN20

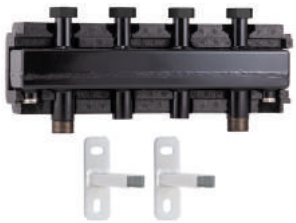


Dual distribution manifold with thermal insulation - wall mounting brackets - complete with running nuts for distribution and regulating group connection

Max working temperature: ***100 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***90 mm***
Material: ***steel***

Code		Size	m³/h	Nr. of zones	📦	€
P72 025 002	NEW	G 1 M - G 1 RN	3	2	1	-
P72 025 003	NEW	G 1 M - G 1 RN	3	3	1	-

P74.DN20



Distribution manifold with integrated hydraulic separator and thermal insulation - wall mounting brackets - complete with running nuts for distribution and regulating group connection

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***90 mm***
Material: ***steel***

Code		Size	m³/h	Nr. of zones	📦	€
P74 025 002	NEW	G 1 M - G 1 RN	3	2	1	-
P74 025 003	NEW	G 1 M - G 1 RN	3	3	1	-

42D.DN20

Bracket for wall mounting of the distribution and regulating groups, with screws and anchors

Hole centre distance: ***45 mm***
Hole diameter: ***8 mm***

Code		📦	📦	€
42D 020 Z00 I	NEW	1	25	-

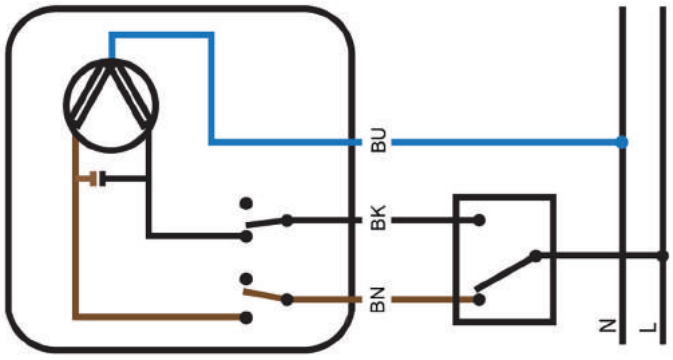
M03.3

Actuator for mixing valves, rotation angle 90°, 3 point regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable, auxiliary microswitch (only in 6 pole version)

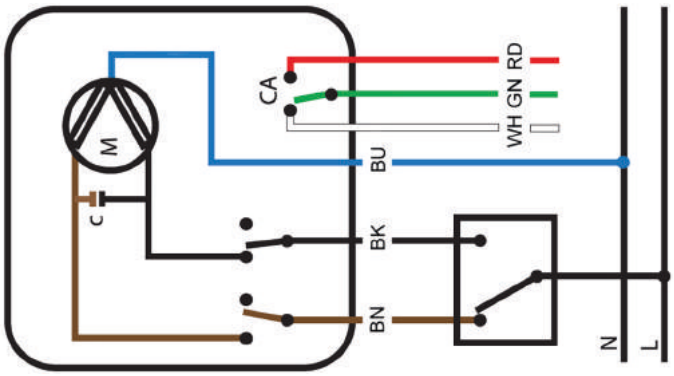
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 010 1DA B TBS	230	120	3	1,5	1	16	-

Wiring diagram M03.3, 3 points



Wiring diagram M03.3, 3 points with aux. microswitch



P27T2

Actuator for mixing valves, rotation angle 90°, for 3 point regulation with integrated probe and temperature regulator. Temperature adjustment range 5–95 °C. Complete with blocking screw, mixing valve adaptor, anti-rotation pin, Pt 1000 probe (1,6 m cable), contact probe holder, integrated Shuko electrical plug (1,9 m cable).

Temperature adjustment range: ***5–95 °C***
Torque: ***6 N·m***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***1,5 VA***

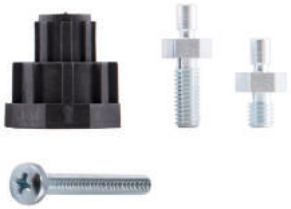
Code	V	Running time [s]	Nr. poles	Cable [m]			€
P27 230 010 T2 TBS	230	120	2	1,9	1	10	-

M03.K

Spare part kit for M03.3 and M03.2 actuators. Complete with knob, indicator, blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M03 000 000 K	1	-	-

M04.K



Spare part kit for P27T2 and M04. actuators. Complete with blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M04 000 000 K NEW	1	-	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

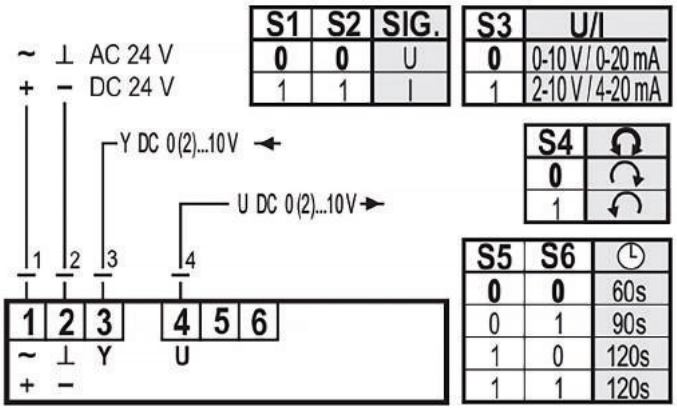
M04

Actuator for mixing valves, rotation angle 90°, proportional regulation 0 (2)-10 V. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,95 m integrated cable

Torque: ***5 N·m***
Feedback: ***0–10 V/4–20 mA***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***4 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M04 010 3MA B	24	60 - 90 - 120	4	1,95	1	10	-

Wiring diagram M04 0(2)–10 V



52D.DN20

Kit composed by thermostatic mixing valve, pump connection and T-joint on the return

Flow coefficient: ***Kv 3,5***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***

Code	Size	°C			€
52D 025 0T1 NEW	G 1 M - G 1 RN	25–50	1	8	-
52D 025 0T2 NEW	G 1 M - G 1 RN	30–60	1	8	-

51D.DN20

Kit composed of mixing valve with by-pass, pump connection and T-joint on the return

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***90 mm***

Code	Size	Kv			€
51D 025 0B0 NEW	G 1 M - G 1 RN	4	1	8	-

630.4

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 30–60 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000 4 NEW	G 1 M - G 1 RN - G 3/4 M	1	6	-

630.104

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 25–50 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 010 4 NEW	G 1 M - G 1 RN - G 3/4 M	1	6	-

41D

3-way mixing valve with by-pass fitted to be actuated - pump connection - distribution manifold connection

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
41D 025 000 B NEW	G 1 M - G 3/4 M - G 1 RN	4	1	10	-

40D.DN20

Extension with flat seat, connection distance 210 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 025 000 NEW	G 1 M - 210 mm	-	16	-

40D.1.DN20

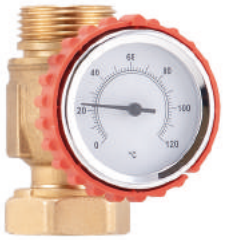
Extension with flat seat, connection distance 130 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 025 001 NEW	G 1 M - 130 mm	-	16	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

38D.DN20.1



Monobloc with pump connection (ball shut-off valve + temperature gauge) - temperature gauge 0–120 °C - DN 20

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 020 000 1 NEW	G 1 RN - (G 1 M+G 3/4 F)	red	-	16	-

37D.DN20.1

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + check valve override) - temperature gauge 0–120 °C - DN 20

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 020 000 1 NEW	(G 1 M+G 3/4 F) - G 1 RN	blue	-	16	-

39D.DN20

Ball shut-off valve with pump connection - male connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
39D 020 000 1 NEW	G 1 RN - G 1 M	black	-	25	-

43D.DN20

Distribution and regulating group insulation

Material: ***EPP***

Code	Size		€
43D 020 000 NEW	for 01G.DN20-02G.DN20	1	-
43D 020 000 1 NEW	for 07G.04.DN20-07G.DN20	1	-

29A

Spare pump Wilo Para with high efficiency (EEI<0,20). With 1 m cable

Max head: ***7,7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	Pump	Cable [m]	€
29A 025 070 BK ONR	G 1 M	Para 15-130/7-50/SC-9	1	-

14D.5

3 pole cable with 90° rapid connector for Wilo Para

Code	Nr. poles	Cable [m]	€
14D 100 005 NEW	3	1	-

25AK.DN20

Spare pump Grundfos UPM3 AUTO 15-70 130 with high efficiency w ithout a utoadapt (EEI<0,20). Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
25A 025 070 BK ONR	G 1 M	3	1	-

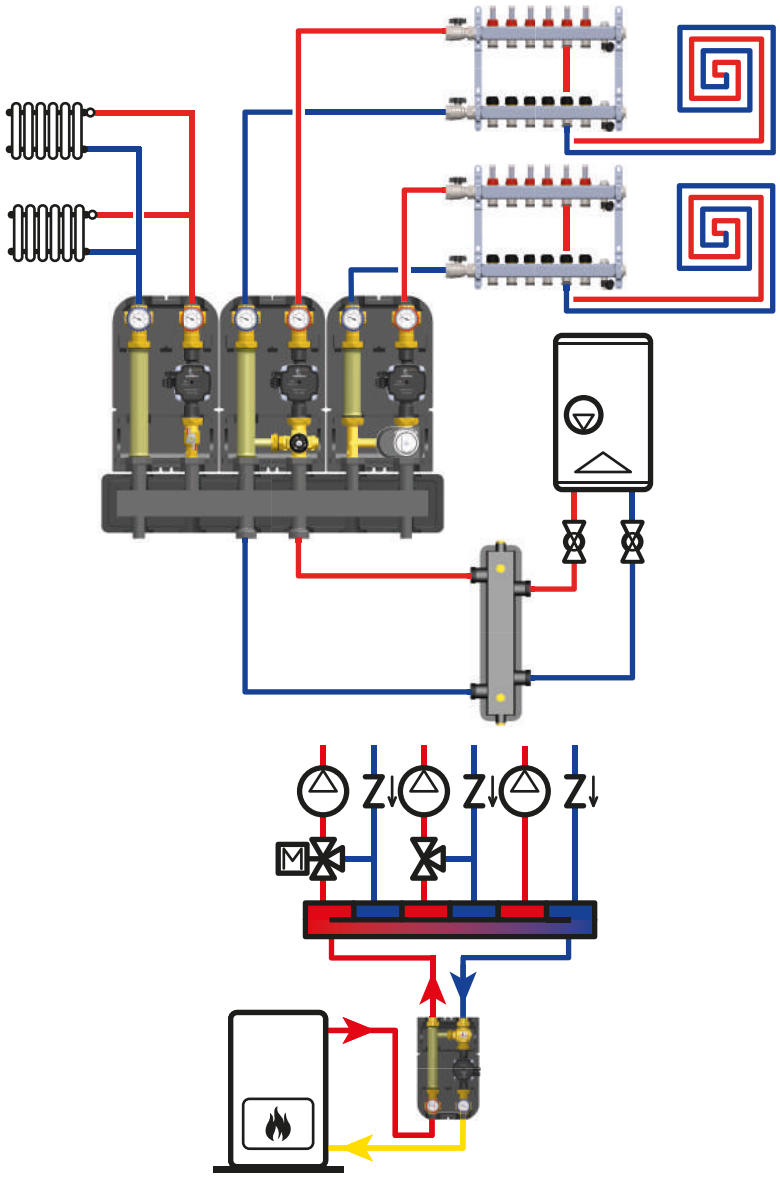
01A.25

Spare pump Grundfos UPSO 15-65 with 3 constant speeds (Extra EU)

Max head: ***6,5 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

Code	Size	€
01A 025 065 B ONR	G 1 M	-

Application diagram with distribution, regulating and anti-condensation groups, hydraulic separator and manifolds



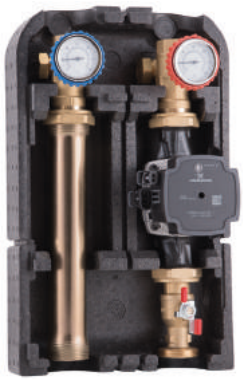
Fitting for 110 and 130 mm energy metering devices

Groups 23G.DN25, 24G.DN25 and 25G.DN25 are suitable for 110 or 130 mm energy metering devices and are equipped with immersion probe pocket on the flow monobloc (red knob).

Energy metering device on groups 23G.DN25, 24G.DN25 and 25G.DN25

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

01G.DN25



Direct distribution group - reversible - DN 25 - with connections for by-pass (616)

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump	📦	€
01G 025 00X	G 1 1/2 M - G 1 F	⊗ WITHOUT PUMP	1	-
01G 025 00V TBS	G 1 1/2 M - G 1 F	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
01G 025 00U ONR	G 1 1/2 M - G 1 F	GRUNDFOS UPM3 AUTO 25-70 180	1	-
01G 025 00L	G 1 1/2 M - G 1 F	wilo Yonos Para 25-6 180 RKA	1	-
01G 025 00C	G 1 1/2 M - G 1 F	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

31G.DN25

Direct distribution group - reversible - DN 25 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump	📦	€
31G 025 00X	G 1 1/2 M - G 1 F	⊗ WITHOUT PUMP	1	-
31G 025 00V	G 1 1/2 M - G 1 F	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
31G 025 00U ONR	G 1 1/2 M - G 1 F	GRUNDFOS UPM3 AUTO 25-70 180	1	-
31G 025 00L	G 1 1/2 M - G 1 F	wilo Yonos Para 25-6 180 RKA	1	-
31G 025 00C	G 1 1/2 M - G 1 F	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

23G.DN25

Direct distribution group - reversible - DN 25 - fitted for energy meter (G 3/4 110 mm, G 1 130 mm) - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump	📦	€
23G 025 00X	G 1 1/2 M - G 1 F	⊗ WITHOUT PUMP	1	-
23G 025 00V	G 1 1/2 M - G 1 F	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
23G 025 00C	G 1 1/2 M - G 1 F	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

02G.DN25

Regulating group with thermostatic mixing valve - reversible - DN 25 - with connections for by-pass (616)

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C		€
02G 025 00X	G 1 1/2 M - G 1 F	3,5	WITHOUT PUMP	30–60	1	-
02G 025 00V TBS	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	30–60	1	-
02G 025 00U ONR	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO 25-70 180	30–60	1	-
02G 025 00L	G 1 1/2 M - G 1 F	3,5	wilo Yonos Para 25-6 180 RKA	30–60	1	-
02G 025 00C	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	30–60	1	-
02G 025 00X E	G 1 1/2 M - G 1 F	3,5	WITHOUT PUMP	25–50	1	-
02G 025 00V E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	25–50	1	-
02G 025 00U E ONR	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO 25-70 180	25–50	1	-
02G 025 00L E	G 1 1/2 M - G 1 F	3,5	wilo Yonos Para 25-6 180 RKA	25–50	1	-
02G 025 00C E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	25–50	1	-

32G.DN25

Regulating group with thermostatic mixing valve - reversible - DN 25 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C		€
32G 025 00X	G 1 1/2 M - G 1 F	3,5	WITHOUT PUMP	30–60	1	-
32G 025 00V	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	30–60	1	-
32G 025 00U ONR	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO 25-70 180	30–60	1	-
32G 025 00L	G 1 1/2 M - G 1 F	3,5	wilo Yonos Para 25-6 180 RKA	30–60	1	-
32G 025 00C	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	30–60	1	-
32G 025 00X E	G 1 1/2 M - G 1 F	3,5	WITHOUT PUMP	25–50	1	-
32G 025 00V E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	25–50	1	-
32G 025 00U E ONR	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO 25-70 180	25–50	1	-
32G 025 00L E	G 1 1/2 M - G 1 F	3,5	wilo Yonos Para 25-6 180 RKA	25–50	1	-
32G 025 00C E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	25–50	1	-

	NUMBER OF PIECES IN BOX
	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

24G.DN25

Regulating group with thermostatic mixing valve - reversible - DN 25 - fitted for energy meter (G 3/4 110 mm, G 1 130 mm) - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C	📦	€
24G 025 00X	G 1 1/2 M - G 1 F	3,5	⊗ WITHOUT PUMP	30–60	1	-
24G 025 00V	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	30–60	1	-
24G 025 00C	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	30–60	1	-
24G 025 00X E	G 1 1/2 M - G 1 F	3,5	⊗ WITHOUT PUMP	25–50	1	-
24G 025 00V E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS UPM3 AUTO L 25-70 180	25–50	1	-
24G 025 00C E	G 1 1/2 M - G 1 F	3,5	GRUNDFOS (Extra EU) UPSO 25-65 180	25–50	1	-

07G.DN25-09G.DN25

Regulating group with 3-way mixing valve fitted to be actuated - reversible - DN 25 - with connections for by-pass (616)

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

Code	Size	Kv	Pump		€
07G 025 00X	G 1 1/2 M - G 1 F	6	WITHOUT PUMP	1	-
07G 025 00V TBS	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
07G 025 00U ONR	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO 25-70 180	1	-
07G 025 00L	G 1 1/2 M - G 1 F	6	wilo Yonos Para 25-6 180 RKA	1	-
07G 025 00C	G 1 1/2 M - G 1 F	6	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-
09G 025 00X	G 1 1/2 M - G 1 F	10	WITHOUT PUMP	1	-
09G 025 00V	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
09G 025 00U ONR	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO 25-70 180	1	-
09G 025 00L	G 1 1/2 M - G 1 F	10	wilo Yonos Para 25-6 180 RKA	1	-
09G 025 00C	G 1 1/2 M - G 1 F	10	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

BAFA LIST

37G.DN25-39G.DN25

Regulating group with 3-way mixing valve fitted to be actuated - reversible - DN 25 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

Code	Size	Kv	Pump		€
37G 025 00X	G 1 1/2 M - G 1 F	6	WITHOUT PUMP	1	-
37G 025 00V	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
37G 025 00U ONR	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO 25-70 180	1	-
37G 025 00L	G 1 1/2 M - G 1 F	6	wilo Yonos Para 25-6 180 RKA	1	-
37G 025 00C	G 1 1/2 M - G 1 F	6	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-
39G 025 00X	G 1 1/2 M - G 1 F	10	WITHOUT PUMP	1	-
39G 025 00V	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
39G 025 00U ONR	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO 25-70 180	1	-
39G 025 00L	G 1 1/2 M - G 1 F	10	wilo Yonos Para 25-6 180 RKA	1	-
39G 025 00C	G 1 1/2 M - G 1 F	10	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

BAFA LIST

25G.DN25

Regulating group with 3-way mixing valve fitted to be actuated - reversible - DN 25 - fitted for energy meter (G 3/4 110 mm, G 1 130 mm) - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

Code	Size	Kv	Pump		€
25G 025 00X	G 1 1/2 M - G 1 F	6	WITHOUT PUMP	1	-
25G 025 00V	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
25G 025 00C	G 1 1/2 M - G 1 F	6	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

BAFA LIST

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

03G.DN25-05G.DN25

BAFA LIST

Regulating group with 3-way mixing valve fitted to be actuated - DN 25 - with connections for by-pass (616)

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

Code	Size	Kv	Pump		€
03G 025 00X	G 1 1/2 M - G 1 F	6	WITHOUT PUMP	1	-
03G 025 00V	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
03G 025 00U ONR	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO 25-70 180	1	-
03G 025 00L	G 1 1/2 M - G 1 F	6	wilo Yonos Para 25-6 180 RKA	1	-
03G 025 00C	G 1 1/2 M - G 1 F	6	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-
05G 025 00X	G 1 1/2 M - G 1 F	10	WITHOUT PUMP	1	-
05G 025 00V	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
05G 025 00U ONR	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO 25-70 180	1	-
05G 025 00L	G 1 1/2 M - G 1 F	10	wilo Yonos Para 25-6 180 RKA	1	-
05G 025 00C	G 1 1/2 M - G 1 F	10	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

33G.DN25-35G.DN25

BAFA LIST

Regulating group with 3-way mixing valve fitted to be actuated - DN 25 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

Code	Size	Kv	Pump		€
33G 025 00X	G 1 1/2 M - G 1 F	6	WITHOUT PUMP	1	-
33G 025 00V	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
33G 025 00U ONR	G 1 1/2 M - G 1 F	6	GRUNDFOS UPM3 AUTO 25-70 180	1	-
33G 025 00L	G 1 1/2 M - G 1 F	6	wilo Yonos Para 25-6 180 RKA	1	-
33G 025 00C	G 1 1/2 M - G 1 F	6	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-
35G 025 00X	G 1 1/2 M - G 1 F	10	WITHOUT PUMP	1	-
35G 025 00V	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO L 25-70 180	1	-
35G 025 00U ONR	G 1 1/2 M - G 1 F	10	GRUNDFOS UPM3 AUTO 25-70 180	1	-
35G 025 00L	G 1 1/2 M - G 1 F	10	wilo Yonos Para 25-6 180 RKA	1	-
35G 025 00C	G 1 1/2 M - G 1 F	10	GRUNDFOS (Extra EU) UPSO 25-65 180	1	-

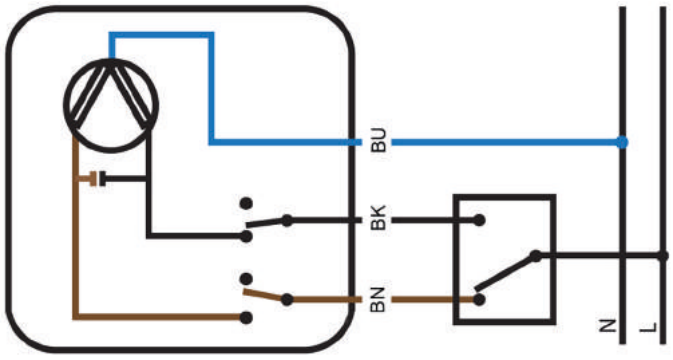
M03.3

Actuator for mixing valves, rotation angle 90°, 3 point regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable, auxiliary microswitch (only in 6 pole version)

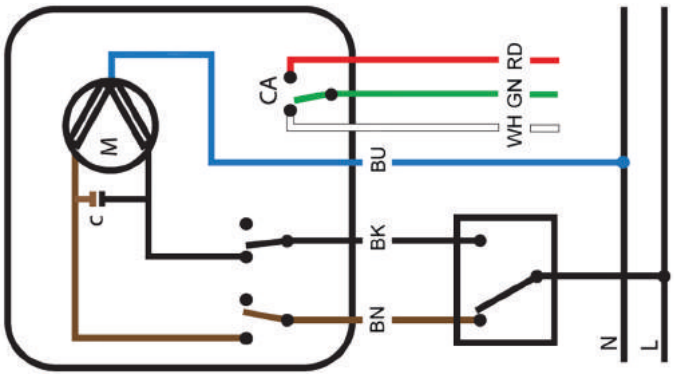
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 010 1DA B TBS	230	120	3	1,5	1	16	-

Wiring diagram M03.3, 3 points



Wiring diagram M03.3, 3 points with aux. microswitch



P27T2

Actuator for mixing valves, rotation angle 90°, for 3 point regulation with integrated probe and temperature regulator. Temperature adjustment range 5–95 °C. Complete with blocking screw, mixing valve adaptor, anti-rotation pin, Pt 1000 probe (1,6 m cable), contact probe holder, integrated Shuko electrical plug (1,9 m cable).

Temperature adjustment range: ***5–95 °C***
Torque: ***6 N·m***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***1,5 VA***

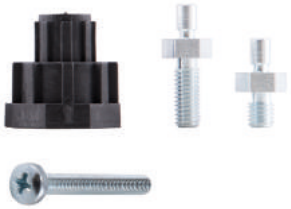
Code	V	Running time [s]	Nr. poles	Cable [m]			€
P27 230 010 T2 TBS	230	120	2	1,9	1	10	-

M03.K

Spare part kit for M03.3 and M03.2 actuators. Complete with knob, indicator, blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M03 000 000 K	1	-	-

M04.K



Spare part kit for P27T2 and M04. actuators. Complete with blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M04 000 000 K NEW	1	-	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

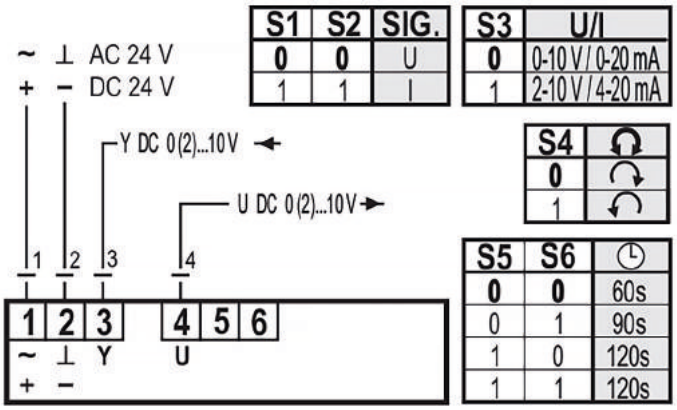
M04

Actuator for mixing valves, rotation angle 90°, proportional regulation 0 (2)-10 V. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,95 m integrated cable

Torque: ***5 N·m***
Feedback: ***0–10 V/4–20 mA***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***4 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M04 010 3MA B	24	60 - 90 - 120	4	1,95	1	10	-

Wiring diagram M04 0(2)–10 V



15G.DN25

Distribution and anti-condensation recirculation group for solid fuel generators - reversible - DN 25 - with tailpieces and nuts - without connections for by-pass.

Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Temperature gauge scale: ***0–120 °C***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C	📦	€
15G 025 01X A	G 1 F - G 1 F	9	⊗ WITHOUT PUMP	45	1	-
15G 025 01V A	G 1 F - G 1 F	9	GRUNDFOS UPM3 AUTO L 25-70 180	45	1	-
15G 025 01C A	G 1 F - G 1 F	9	GRUNDFOS (Extra EU) UPSO 25-65 180	45	1	-
15G 025 01X B	G 1 F - G 1 F	9	⊗ WITHOUT PUMP	55	1	-
15G 025 01V B TBS	G 1 F - G 1 F	9	GRUNDFOS UPM3 AUTO L 25-70 180	55	1	-
15G 025 01C B	G 1 F - G 1 F	9	GRUNDFOS (Extra EU) UPSO 25-65 180	55	1	-
15G 025 01X C	G 1 F - G 1 F	9	⊗ WITHOUT PUMP	60	1	-
15G 025 01V C	G 1 F - G 1 F	9	GRUNDFOS UPM3 AUTO L 25-70 180	60	1	-
15G 025 01C C	G 1 F - G 1 F	9	GRUNDFOS (Extra EU) UPSO 25-65 180	60	1	-
15G 025 01X D	G 1 F - G 1 F	9	⊗ WITHOUT PUMP	70	1	-
15G 025 01V D	G 1 F - G 1 F	9	GRUNDFOS UPM3 AUTO L 25-70 180	70	1	-
15G 025 01C D	G 1 F - G 1 F	9	GRUNDFOS (Extra EU) UPSO 25-65 180	70	1	-

20G.DN25

Distribution and anti-condensation recirculation group for solid fuel generators - reversible - DN 25 - with tailpieces and nuts, actuator equipped with constant temperature regulation - temperature adjustment range 5–95 °C - without connections for by-pass.

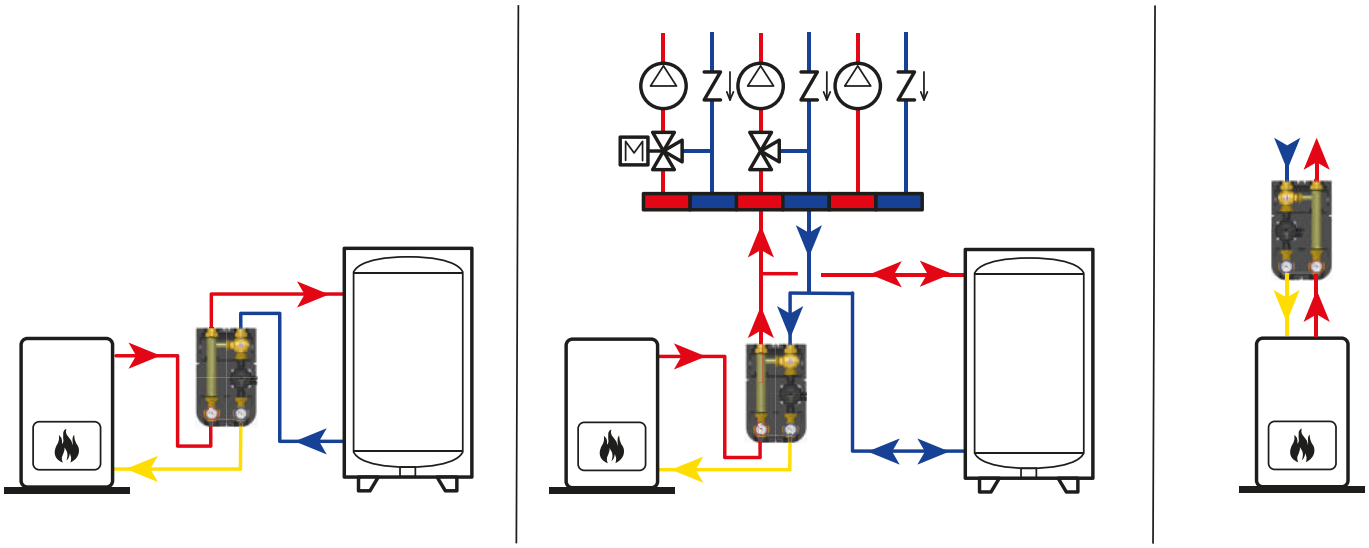
Temperature adjustment range: ***5–95 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Temperature gauge scale: ***0–120 °C***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

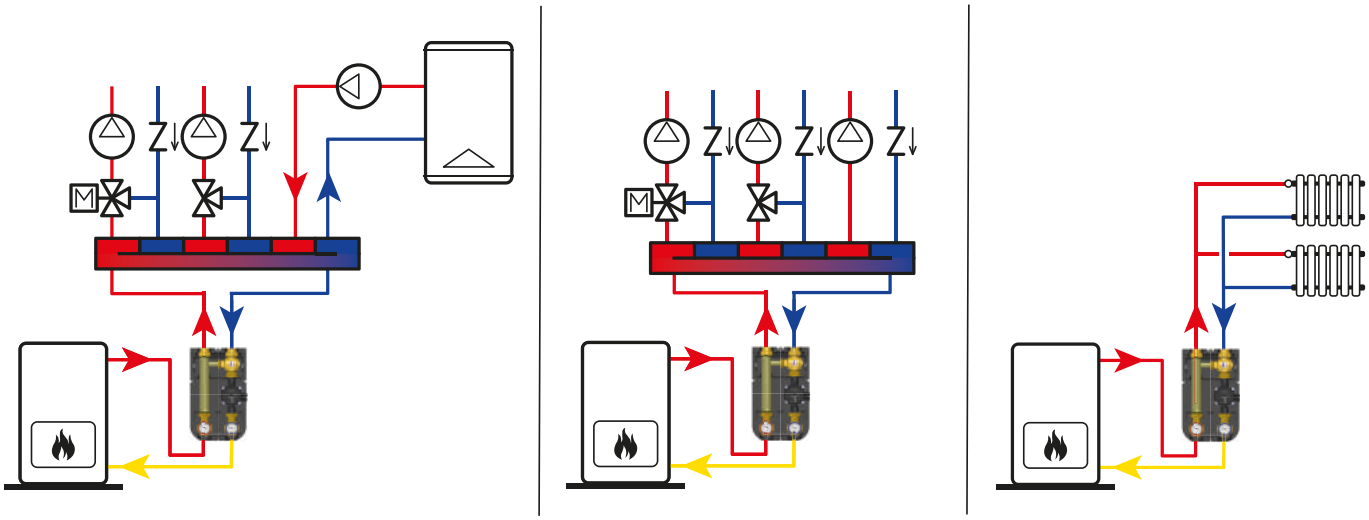
Code	Size	Kv	Pump	°C	📦	€
20G 025 07X	G 1 F - G 1 F	10	⊗ WITHOUT PUMP	20-80	1	-
20G 025 07V	G 1 F - G 1 F	10	GRUNDFOS UPM3 AUTO L 25-70 180	20-80	1	-
20G 025 07C	G 1 F - G 1 F	10	GRUNDFOS (Extra EU) UPSO 25-65 180	20-80	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

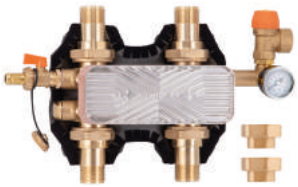
15G.DN25 or 20G.DN25: direct connection to buffer storage - buffer storage in parallel - installation upon the generator



15G.DN25 or 20G.DN25: two generator coupling - connection to system with separator/manifold - direct connection to system



02C.10

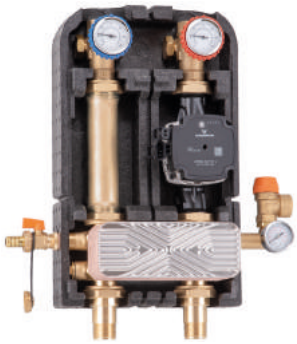


Kit with heat exchanger and safety group - DN 25 - Complete with 2 female fittings (tailpieces and nuts) with flat gasket 44D.DN25

Opening overpressure: ***10%***
Reseating pressure: ***-20%***
Outflow coefficient: ***K=0,05***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***
Connection centre distance: ***125 mm***

Code	Size	Setting [bar]	Plates		€
02C M25 10X I NEW	G 1 M - G 1 M	3	34	1	-
02C M25 10X L NEW	G 1 M - G 1 M	3	28	1	-
02C M25 10X M NEW	G 1 M - G 1 M	3	18	1	-

38G.14.DN25



BAFA LIST

Kit with heat exchanger and direct distribution group - reversible - DN 25 - with connections for by-pass (616) and safety group.

Opening overpressure: ***10%***
Reseating pressure: ***-20%***
Outflow coefficient: ***K=0,05***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***
Connection centre distance: ***125 mm***

Code	Size	Setting [bar]	Pump	Plates		€
38G 025 14X I NEW	G 1 M - G 1 F	3	WITHOUT PUMP	34	1	-
38G 025 14V I NEW	G 1 M - G 1 F	3	GRUNDFOS UPM3 AUTO L 25-70 180	34	1	-
38G 025 14L I NEW	G 1 M - G 1 F	3	wilo Yonos Para 25-6 180 RKA	34	1	-
38G 025 14C I NEW	G 1 M - G 1 F	3	GRUNDFOS (Extra EU) UPS0 25-65 180	34	1	-
38G 025 14X L NEW	G 1 M - G 1 F	3	WITHOUT PUMP	28	1	-
38G 025 14V L NEW	G 1 M - G 1 F	3	GRUNDFOS UPM3 AUTO L 25-70 180	28	1	-
38G 025 14L L NEW	G 1 M - G 1 F	3	wilo Yonos Para 25-6 180 RKA	28	1	-
38G 025 14C L NEW	G 1 M - G 1 F	3	GRUNDFOS (Extra EU) UPS0 25-65 180	28	1	-
38G 025 14X M NEW	G 1 M - G 1 F	3	WITHOUT PUMP	18	1	-
38G 025 14V M NEW	G 1 M - G 1 F	3	GRUNDFOS UPM3 AUTO L 25-70 180	18	1	-
38G 025 14L M NEW	G 1 M - G 1 F	3	wilo Yonos Para 25-6 180 RKA	18	1	-
38G 025 14C M NEW	G 1 M - G 1 F	3	GRUNDFOS (Extra EU) UPS0 25-65 180	18	1	-

02C.HE

Spare heat exchanger for 02C.10 and 38G.14.DN25 kits. Brazed stainless steel plates.

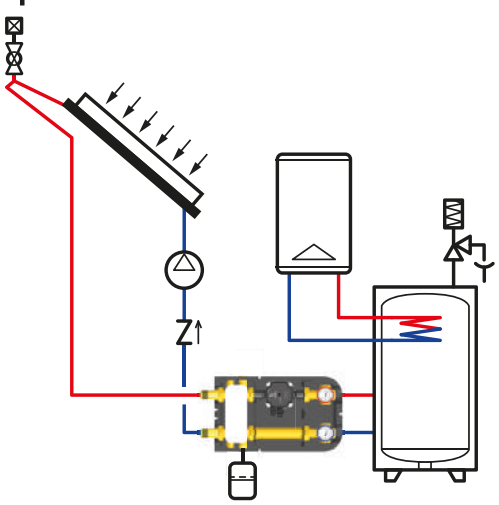
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***

Code	Size	Plates		€
02C M20 34A A1 ONR	G 3/4 M	34	1	-
02C M20 28A A1 ONR	G 3/4 M	28	1	-
02C M20 18A A1 ONR	G 3/4 M	18	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

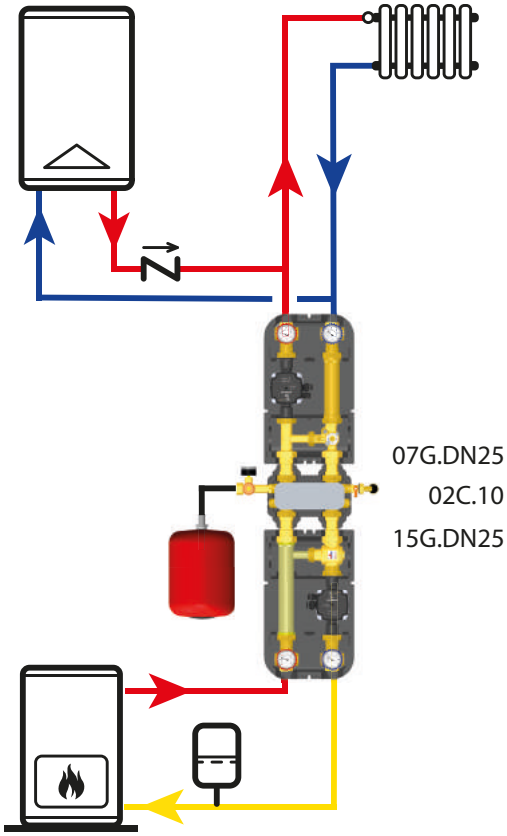
System diagrams: 1) connection of a solar system to a multi-energy buffer storage with 38G.14.DN25 - 2) coupling of two generators with 02C.10 - 3) installation of a new generator on a pre-existing system with 38G.14.DN25 - 4) direct sypply to the system with 38G.14.DN25 - 5) open vessel generator connected to a closed vessel system by means of 02C.10

1



38G.14.DN25

2



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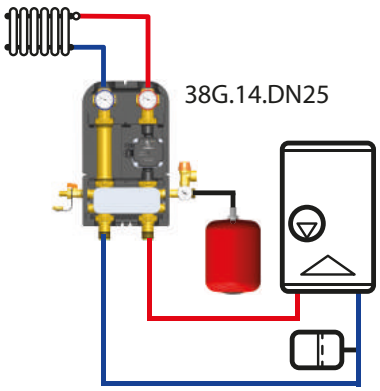

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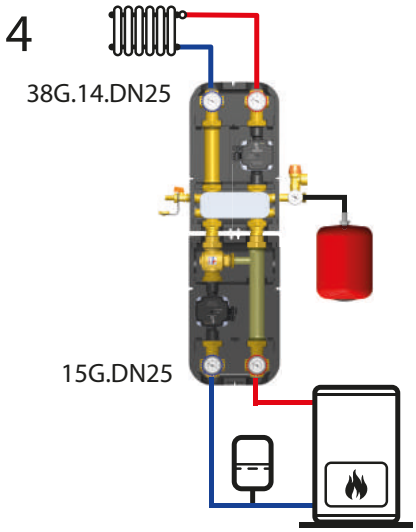

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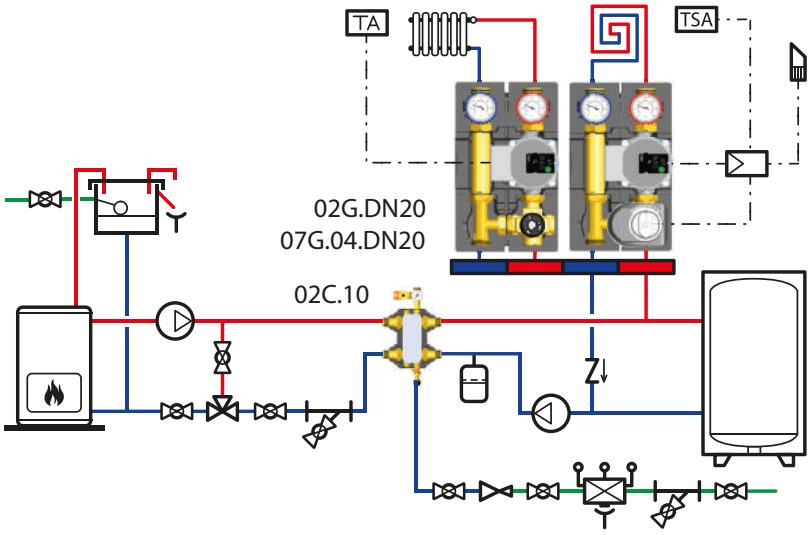


52D

Kit composed by thermostatic mixing valve, pump connection and T-joint on the return

Flow coefficient: ***Kv 3,5***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	°C			€
52D 040 0T1	G 1 1/2 M - G 1 1/2 RN	25–50	1	8	-
52D 040 0T2	G 1 1/2 M - G 1 1/2 RN	30–60	1	8	-

51D

Kit composed of mixing valve with by-pass, pump connection and T-joint on the return

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	Kv			€
51D 040 0C0	G 1 1/2 M - G 1 1/2 RN	6	1	8	-
51D 040 0I0	G 1 1/2 M - G 1 1/2 RN	10	1	8	-

630.3

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 30–60 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 000 3	G 1 1/2 M - G 1 1/2 RN - G 1 M	1	6	-

630.103

4-way thermostatic mixing valve with 90° inlets - pump and manifold connection - Kv 3,5 - range 25–50 °C

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 010 3	G 1 1/2 M - G 1 1/2 RN - G 1 M	1	6	-

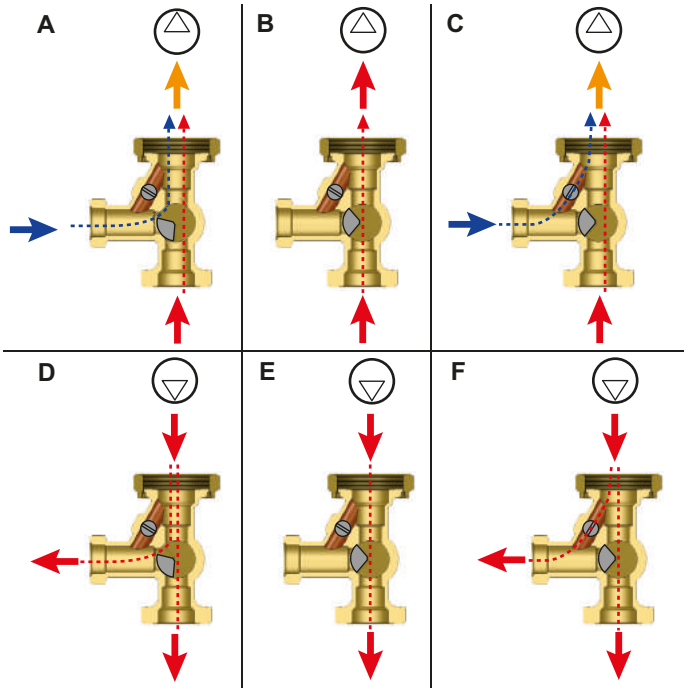
41D

3-way mixing valve with by-pass fitted to be actuated - pump connection - distribution manifold connection

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
41D 040 000 C	G 1 1/2 M - G 1 M - G 1 1/2 RN	6	1	10	-
41D 040 000 I	G 1 1/2 M - G 1 M - G 1 1/2 RN	10	1	10	-

Operating principle of 41D and 51D



A- Mix with by-pass closed
B- Mix with hot port fully open and by-pass closed
C- Mix with hot port fully open and by-pass open
D- Diverting with by-pass closed
E- Diverting with straight way fully open
F- Diverting with both straight way and by-pass open

45D.DN25

T-joint - DN 25

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
45D 040 000	G 1 1/2 RN - G 1 1/2 M - G 1 RN	-	-	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V14.1

woody

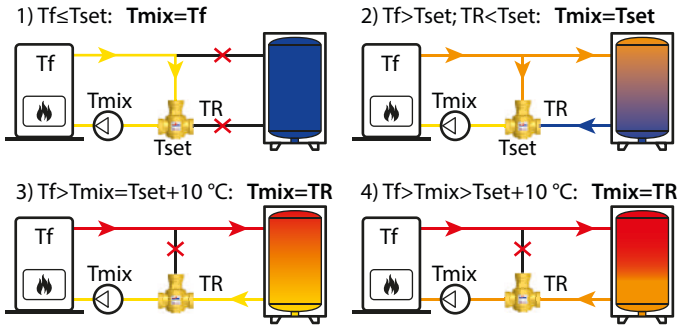
Anti-condensation thermostatic mixing valve for solid fuel generators - pump connection - male connection - Kv 9

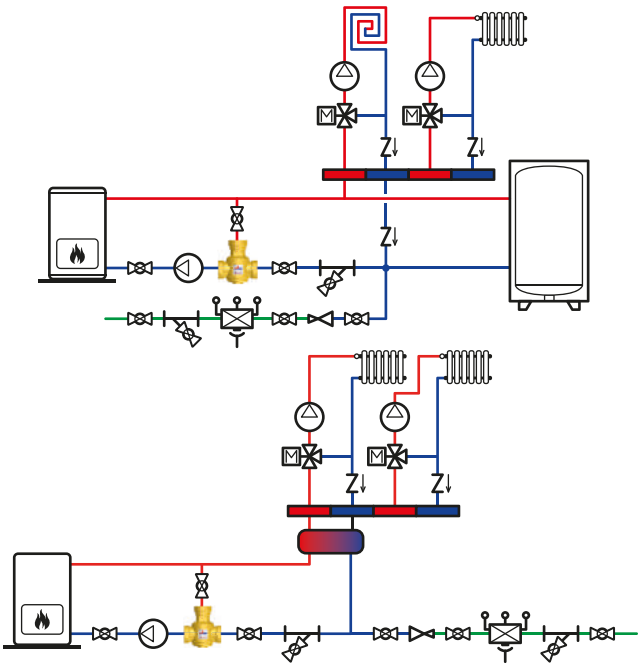
Flow coefficient: ***Kv 9***
Anti-condensation setting: ***45-55-60-70 °C***
Temperature of by-pass hot port fully closing: ***Tmix=Tset+10 °C=TR***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Kv 9

Code	Size	°C			€
V14 M32 00A 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	45	1	12	-
V14 M32 00B 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	55	1	12	-
V14 M32 00C 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	60	1	12	-
V14 M32 00D 1 ONR	G 1 1/2 M - G 1 1/2 RN - G 1 M	70	1	12	-

Operating principle of V13-V14 and diagrams with buffer storage and direct connection





615

Differential by-pass valve with running nuts - setting range 0,2–2,5 m w.g.. Complete with flat gaskets.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection distance: ***65 mm***

Code	Size			€
615 015 000	G 3/4 RN	1	40	-

616

Differential by-pass valve with running nuts - setting range 2–6,5 m w.g.. Complete with flat gaskets.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection distance: ***65 mm***

Code	Size			€
616 015 000	G 3/4 RN	1	40	-

P73.DN25

Hydraulic separator with thermal insulation - wall mounting brackets.

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Material: ***steel***

Code	Size	m³/h		€
P73 M40 030	G 1 1/2 M - G 1 1/2 M - Rp 1/2	3	1	-
P73 M40 045	G 1 1/2 M - G 1 1/2 M - Rp 1/2	4,5	1	-

22M.01

Hydraulic separator with thermal insulation, with inner mesh to help deaeration and dirt separation

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Material: ***steel***

Code	Size	m³/h		€
22M 040 000 01 TBS	G 1 1/2 M - G 1 1/2 M - G 1/2 F	4	1	-

20M.01

Pipe connection kit between hydraulic separator 22M04000001 and manifolds P72 and V34

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size	m³/h		€
20M 040 000 01 ONR	G 1 1/2 RN - G 1 1/2 RN	3	1	-

21M.01

Hydraulic separator with thermal insulation, for horizontal/vertical installation. Complete with running nuts for connection to the manifold

Max working temperature: ***100 °C***
Max working pressure: ***6 bar***
Material: ***steel***

Code	Size	m³/h		€
21M 040 000 01 TBS	G 1 1/2 M - G 1 1/2 RN - G 1/2 F	3	1	-

P72.DN25

Dual distribution manifold with thermal insulation - wall mounting brackets - complete with running nuts for distribution and regulating group connection

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***125 mm***
Material: ***steel***

Code	Size	m³/h	Nr. of zones		€
P72 040 002	G 1 1/2 M - G 1 1/2 RN	3	2	1	-
P72 040 003	G 1 1/2 M - G 1 1/2 RN	3	3	1	-
P72 040 004	G 1 1/2 M - G 1 1/2 RN	3	4	1	-
P72 040 005 TBS	G 1 1/2 M - G 1 1/2 RN	3	5	1	-
P72 040 006 TBS	G 1 1/2 M - G 1 1/2 RN	3	6	1	-
P72 M25 002 ONR	G 1 1/2 M - R 1	3	2	1	-
P72 M25 003 ONR	G 1 1/2 M - R 1	3	3	1	-
P72 M25 004 ONR	G 1 1/2 M - R 1	3	4	1	-
P72 M25 005 ONR	G 1 1/2 M - R 1	3	5	1	-
P72 M25 006 ONR	G 1 1/2 M - R 1	3	6	1	-

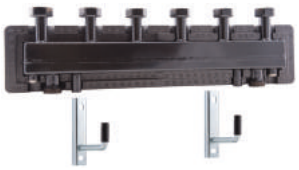
V34.DN25

"UP/DOWN" dual distribution manifold with thermal insulation - wall mounting brackets - complete with running nuts and fittings for lower distribution and regulating group connection

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***125 mm***
Material: ***steel***

Code	Size	m³/h	Nr. of zones		€
V34 040 003 TBS	G 1 1/2 M - G 1 1/2 RN	3	3	1	-
V34 040 005 TBS	G 1 1/2 M - G 1 1/2 RN	3	5	1	-
V34 040 007 ONR	G 1 1/2 M - G 1 1/2 RN	3	7	1	-

P74



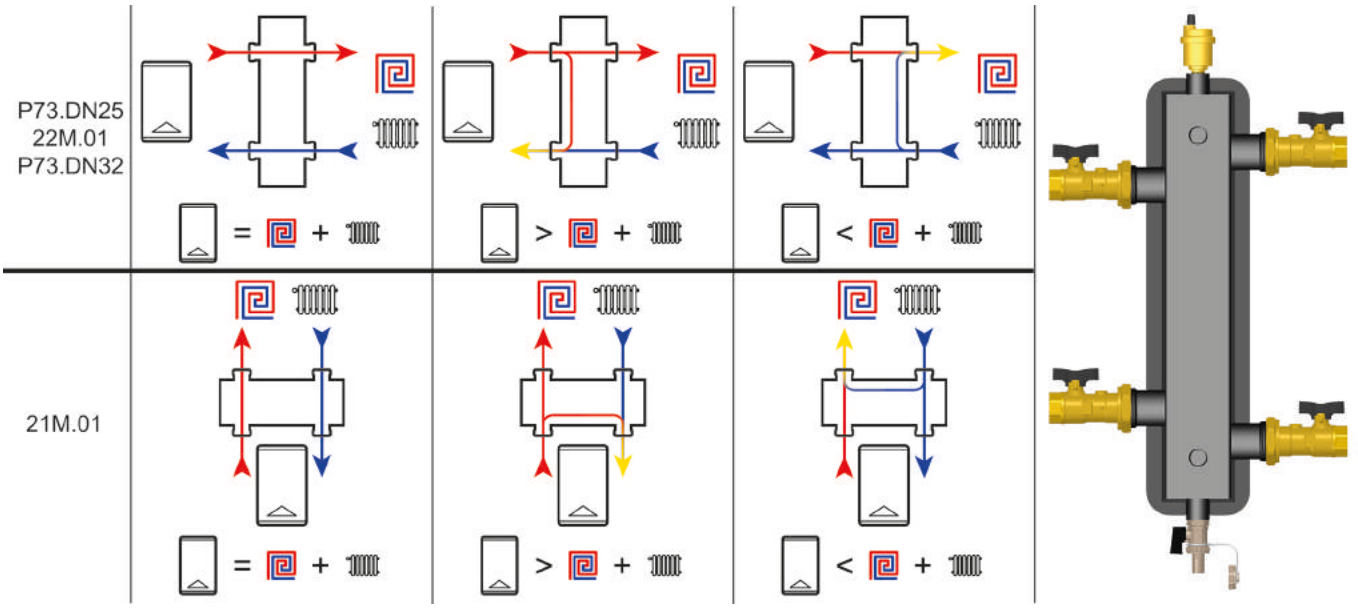
Distribution manifold with integrated hydraulic separator and thermal insulation - wall mounting brackets - complete with running nuts for distribution and regulating group connection

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***125 mm***
Material: ***steel***

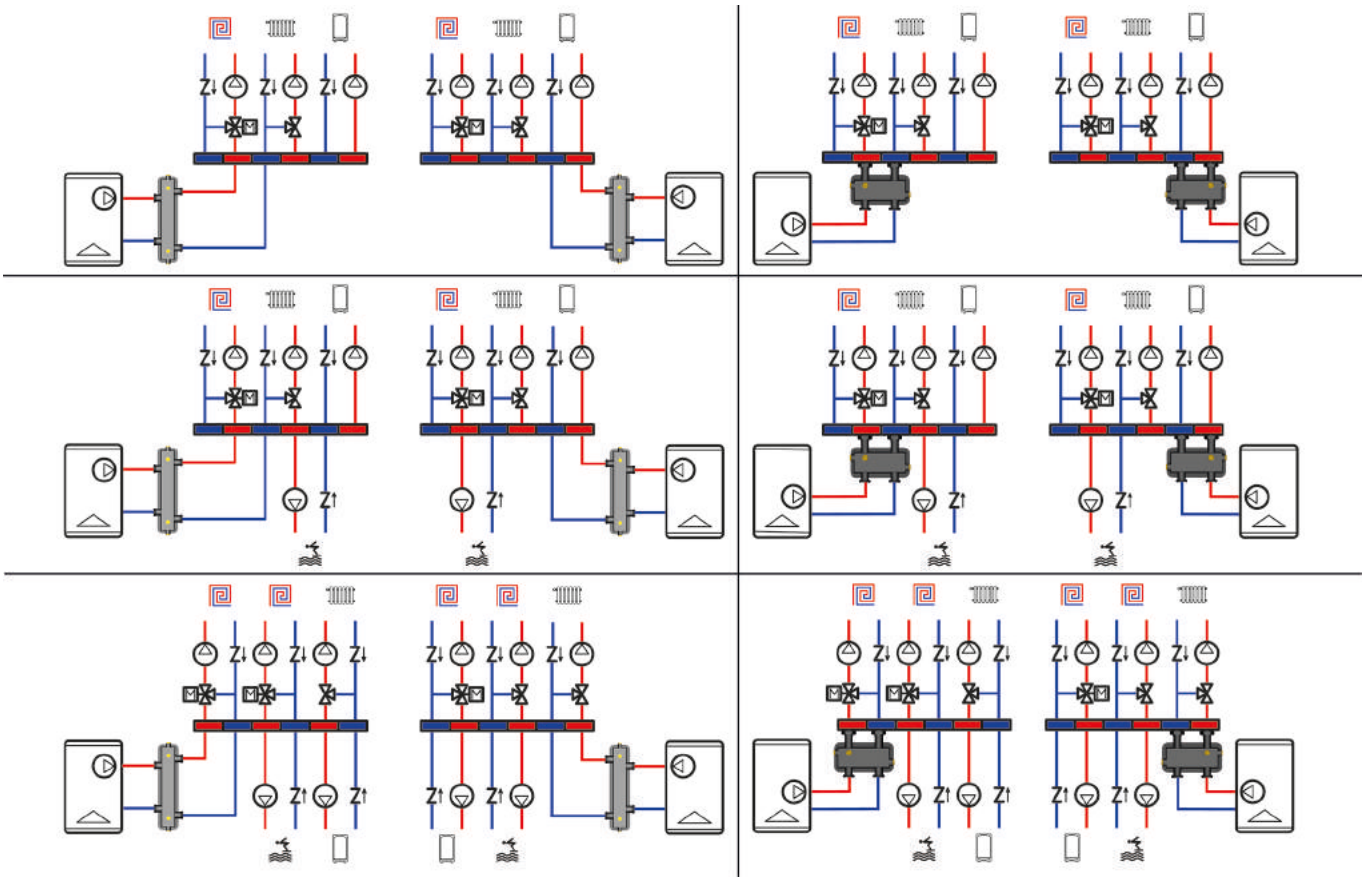
Code	Size	m³/h	Nr. of zones		€
P74 040 002 TBS	G 1 1/2 M - G 1 1/2 RN	3	2	1	-
P74 040 003	G 1 1/2 M - G 1 1/2 RN	3	3	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

Hydraulic separator operating principle according to primary and secondary flow rate - accessories of separators



Versatility of V34.DN25 manifolds and hydraulic separators



52D025.01

2 ball shut-off valve kit with pump connection G 1 1/2 RN

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
52D 025 000 01	G 1 F - G 1 1/2 RN	red	1	8	-

52D025.02

2 ball shut-off valve kit with pump connection G 1 1/2 RN and check valve insert integrated on the ball valve on the return

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
52D 025 000 02	G 1 F - G 1 1/2 RN	1	6	-

52D025.03

2 ball shut-off valve kit with pump connection G 1 1/2 RN and differential by-pass valve with running nuts - setting range 0,2–2,5 m w.g..

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
52D 025 000 03 NEW	G 1 F - G 1 1/2 RN	1	8	-

38D.DN25

Monobloc with pump connection (ball shut-off valve + temperaure gauge + 2 side connections) - temperaure gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

38D.1T

Ball shut-off valve with pump connection with possibility of temperature gauge integration - DN 25 - female connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 1T	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 1BT ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

38D.1

Monobloc with pump connection (ball shut-off valve + temperature gauge) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 1	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 1B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

38D.2

Monobloc with pump connection (ball shut-off valve + temperature gauge + probe connection) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 2	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 2B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

39D

Ball shut-off valve with pump connection - male connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
39D 020 000 R	G 1 1/2 RN - G 1 1/2 M	red	-	25	-

37D.DN25

Monobloc with pump connection (ball shut-off valve + temperature gauge + 2 side connections + check valve + check valve override) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 R ONR	G 1 F - G 1 1/2 RN	red	-	16	-

37D.1T

Monobloc with pump connection (ball shut-off valve + check valve + check valve override) - with possibility of temperature gauge integration - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000 1T	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 1RT ONR	G 1 F - G 1 1/2 RN	red	-	16	-

37D.1

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + check valve override) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000 1	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 1R ONR	G 1 F - G 1 1/2 RN	red	-	16	-

440.I

Knob and screw kit for mixing valve manual setting

Code		€
440 015 011 I		-

40D

Extension with flat seat, connection distance 272 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 000	G 1 1/2 M - 272 mm	-	16	-

40D.L

L-extension with flat seat, connection distance 272 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 000 L	G 1 1/2 M - G 3/4 RN - 272 mm	-	16	-

40D.2

Extension with flat seat, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 002	G 1 1/2 M - 180 mm	-	16	-

40D.C

Extension with flat seat for 110 and 130 mm energy metering devices, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 020 000	G 1 1/2 M - 180 mm	-	-	-

036.TI

Plug G 1 1/2 F with gasket.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
036 040 007 TI	G 1 1/2 F	2	-	-

44D.DN25

2 female fittings (tailpieces and nuts) with flat gasket - DN 25

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
44D 025 000	G 1 F - G 1 1/2 RN	2	50	-

V38.P

2 fittings FM with flat gaskets to adapt 130 mm centre distance pumps to 180 mm centre distance

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Code	Size			€
V38 040 000 10 TBS	G 1 F - G 1 1/2 M	2	-	-
V38 040 000 11 TBS	G 1 1/2 F - G 1 1/2 M	2	-	-

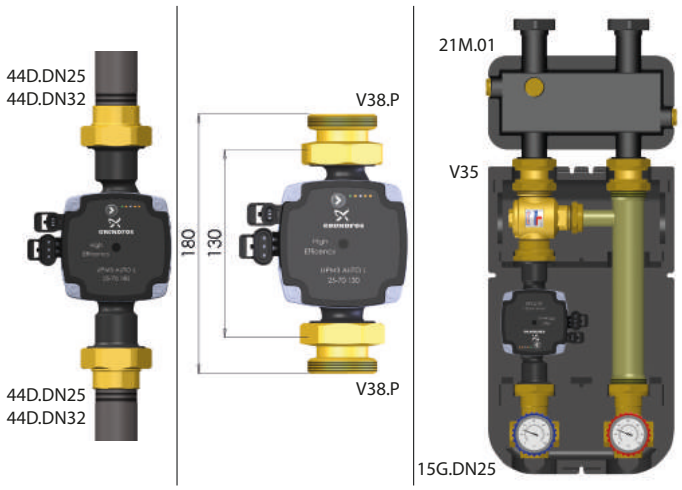
V35

Fitting kit with G 1 1/2 RN x G 1 1/2 RN running nuts, plug and flat gasket.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
V35 040 000 I	G 1 1/2 RN x G 1 1/2 RN	2	-	-

Use of fittings 44D.DN25 or 44D.DN32, V38P, V35



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V38.05

Kit with Y fitting and immersion probe pocket

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 05	G 1/2 M	2	-	-
V38 020 000 05	G 3/4 M	2	-	-
V38 025 000 05	G 1 M	2	-	-
V38 032 000 05 ONR	G 1 1/4 M	2	-	-

Fitting V38.05 with pocket specific for immersion probe

V38.06

Kit with Y fitting and immersion probe holder with seal on the probe

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 06	G 1/2 M	2	-	-
V38 020 000 06	G 3/4 M	2	-	-
V38 025 000 06	G 1 M	2	-	-
V38 032 000 06 ONR	G 1 1/4 M	2	-	-

Fitting V38.06 with immersion probe holder with seal on the probe

P72.S

Pair of brackets for wall mounting of distribution manifolds P72, P74

Hole centre distance: ***145 mm***
Hole diameter: ***13 mm***

Code			€
P72 000 00S	1	-	-

42D.DN25

Bracket for wall mounting of the distribution and regulating groups, with screws and anchors

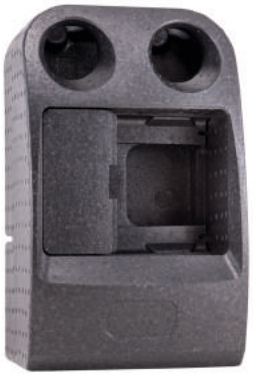
Hole centre distance: ***90 mm***
Hole diameter: ***8 mm***

Code			€
42D 025 Z00 I	1	25	-

43D.DN25

Distribution and regulating group insulation

Material: ***EPP***



Code	Size		€
43D 025 000	247-410-212 mm	1	-

11D.120

Axial temperature gauge

Scale: ***0–120 °C***
Diameter: ***51 mm***
Stem diameter: ***5 mm***
Stem total lenght: ***50,5 mm***

Code	Size			€
11D 015 000 120	Ø 51 mm	1	10	-

07A.DN25

Spare pump Wilo Yonos Para 25-6 RKA with high efficiency (EEI<0,20). With 1 m cable

Max head: ***6 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

BAFA LIST

Code	Size	€
07A 040 060 B ONR	G 1 1/2 M	-

20AK.DN25

Spare pump Grundfos UPM3 AUTO 25-70 180 with high efficiency (EEI<0,20). Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
20A 040 070 BK ONR	G 1 1/2 M	3	1	-

21AK.DN25

Spare pump Grundfos UPM3 AUTO L 25-70 180 with high efficiency without autoadapt (EEI<0,20). Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
21A 040 070 BK ONR	G 1 1/2 M	3	1	-

14D.2

3 pole cable with 90° rapid connector for UPM3 AUTO, UPM3 AUTO L and UPM3 solar pumps

Code	Nr. poles	Cable [m]	€
14D 100 002	3	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

05A.DN25

Spare pump Grundfos UPSO 25-65 180 with 3 constant speeds (Extra EU)

Max head: ***6,5 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

Code	Size	€
05A 040 065 B ONR	G 1 1/2 M	-

01G.DN32

Direct distribution group - reversible - DN 32 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump		€
01G 032 00X	G 2 M - G 1 1/4 F	WITHOUT PUMP	1	-
01G 032 00W	G 2 M - G 1 1/4 F	GRUNDFOS UPM3 AUTO L 32-70 180	1	-
01G 032 00T	G 2 M - G 1 1/4 F	GRUNDFOS (Extra EU) UPSO 32-65 180	1	-
01G 032 00F ONR	G 2 M - G 1 1/4 F	GRUNDFOS UPML 32-105 180	1	-

07G.06.DN32

Regulating group with mixing valve fitted to be actuated - reversible - DN 32 - actuator with constant temperature regulator - temperature adjustment range 5–95 °C - without connections for by-pass

Temperature adjustment range: ***5–95 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump		€
07G 032 06X	G 2 M - G 1 1/4 F	18	WITHOUT PUMP	1	-
07G 032 06W	G 2 M - G 1 1/4 F	18	GRUNDFOS UPM3 AUTO L 32-70 180	1	-
07G 032 06T	G 2 M - G 1 1/4 F	18	GRUNDFOS (Extra EU) UPSO 32-65 180	1	-
07G 032 06F ONR	G 2 M - G 1 1/4 F	18	GRUNDFOS UPML 32-105 180	1	-

07G.DN32

Regulating group with mixing valve fitted to be actuated - reversible - DN 32 - without connections for by-pass

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump		€
07G 032 00X	G 2 M - G 1 1/4 F	18	WITHOUT PUMP	1	-
07G 032 00W	G 2 M - G 1 1/4 F	18	GRUNDFOS UPM3 AUTO L 32-70 180	1	-
07G 032 00T	G 2 M - G 1 1/4 F	18	GRUNDFOS (Extra EU) UPSO 32-65 180	1	-
07G 032 00F ONR	G 2 M - G 1 1/4 F	18	GRUNDFOS UPML 32-105 180	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

19G.DN32

Distribution and anti-condensation recirculation group for solid fuel generators - reversible - DN 32 - with tailpieces and nuts, actuator equipped with constant temperature regulation - temperature adjustment range 5–95 °C - without connections for by-pass.

Temperature adjustment range: ***5–95 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Temperature gauge scale: ***0–120 °C***
Connection centre distance: ***125 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump		€
19G 032 07X	G 2 M - G 1 1/4 F	18	WITHOUT PUMP	1	-
19G 032 07W	G 2 M - G 1 1/4 F	18	GRUNDFOS UPM3 AUTO L 32-70 180	1	-
19G 032 07T	G 2 M - G 1 1/4 F	18	GRUNDFOS (Extra EU) UPSO 32-65 180	1	-

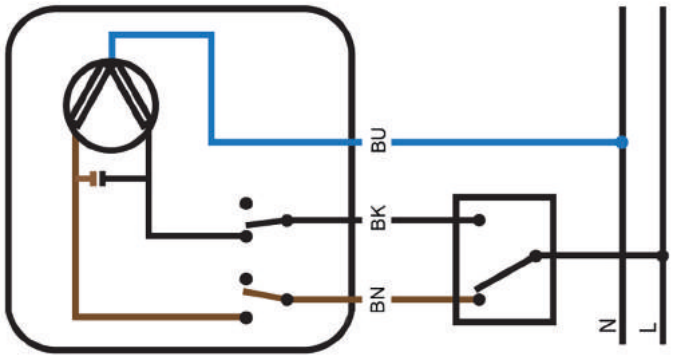
M03.3

Actuator for mixing valves, rotation angle 90°, 3 point regulation. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable, auxiliary microswitch (only in 6 pole version)

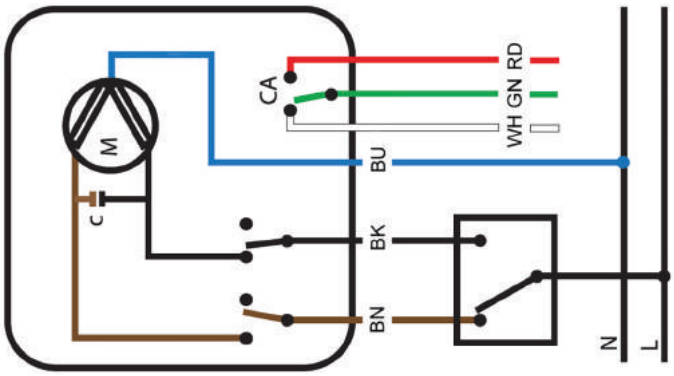
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***
Power consumption: ***4 VA***
Aux. microswitch contact rating: ***6 (1) A***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M03 010 1DA B TBS	230	120	3	1,5	1	16	-

Wiring diagram M03.3, 3 points



Wiring diagram M03.3, 3 points with aux. microswitch



P27T2

Actuator for mixing valves, rotation angle 90°, for 3 point regulation with integrated probe and temperature regulator. Temperature adjustment range 5–95 °C. Complete with blocking screw, mixing valve adaptor, anti-rotation pin, Pt 1000 probe (1,6 m cable), contact probe holder, integrated Shuko electrical plug (1,9 m cable).

Temperature adjustment range: ***5–95 °C***
Torque: ***6 N·m***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***1,5 VA***

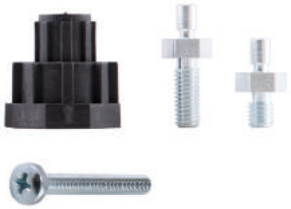
Code	V	Running time [s]	Nr. poles	Cable [m]			€
P27 230 010 T2 TBS	230	120	2	1,9	1	10	-

M03.K

Spare part kit for M03.3 and M03.2 actuators. Complete with knob, indicator, blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M03 000 000 K	1	-	-

M04.K



Spare part kit for P27T2 and M04. actuators. Complete with blocking screw, mixing valve adaptor, anti-rotation pin.

Code			€
M04 000 000 K NEW	1	-	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

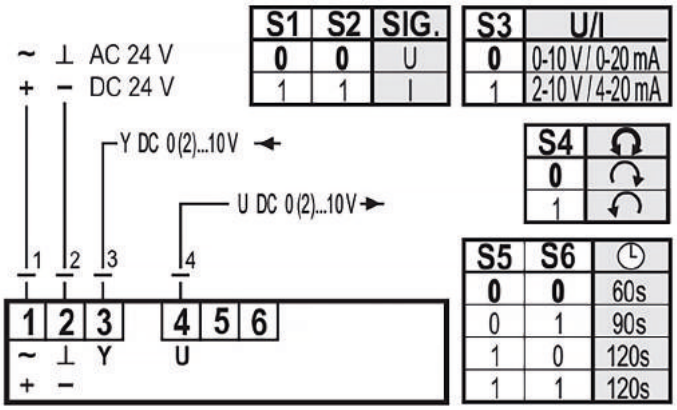
M04

Actuator for mixing valves, rotation angle 90°, proportional regulation 0 (2)-10 V. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,95 m integrated cable

Torque: ***5 N·m***
Feedback: ***0–10 V/4–20 mA***
Protection class: ***IP 42***
Frequency: ***50 Hz***
Power consumption: ***4 VA***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M04 010 3MA B	24	60 - 90 - 120	4	1,95	1	10	-

Wiring diagram M04 0(2)–10 V



S1	S2	SIG.
0	0	U
1	1	I

S3	U/I
0	0-10 V / 0-20 mA
1	2-10 V / 4-20 mA

S4	
0	
1	

S5	S6	
0	0	60s
0	1	90s
1	0	120s
1	1	120s

51D

Kit composed of mixing valve with by-pass, pump connection and T-joint on the return

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	Kv			€
51D 050 0G0	G 2 M - G 2 RN	18	1	8	-

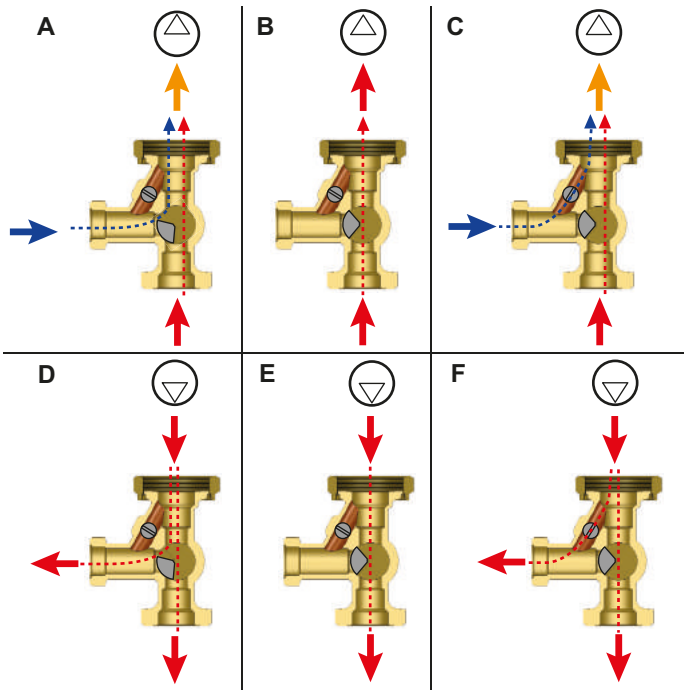
41D

3-way mixing valve with by-pass fitted to be actuated - pump connection - distribution manifold connection

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size	Kv			€
41D 050 000 G	G 2 M - G 1 1/4 M - G 2 RN	18	1	10	-

Operating principle of 41D and 51D



A- Mix with by-pass closed
B- Mix with hot port fully open and by-pass closed
C- Mix with hot port fully open and by-pass open
D- Diverting with by-pass closed
E- Diverting with straight way fully open
F- Diverting with both straight way and by-pass open

P73.DN32

Hydraulic separator with thermal insulation - wall mounting brackets.

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Material: ***steel***

Code	Size	m³/h		€
P73 M50 080	G 2 M - G 2 M - Rp 1/2	8	1	-

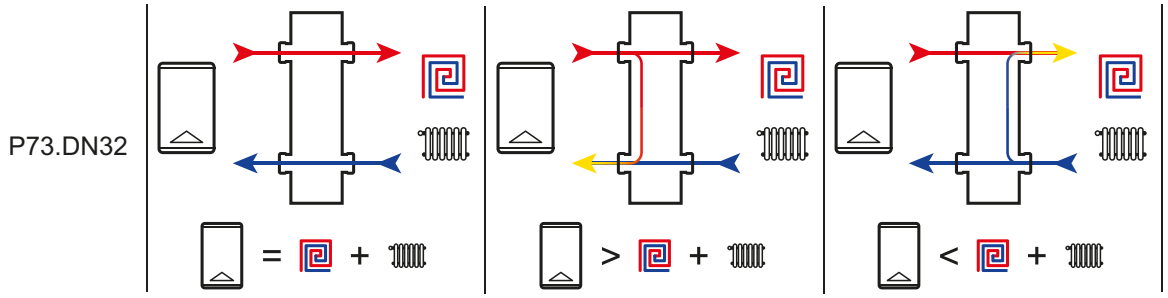
P72.DN32

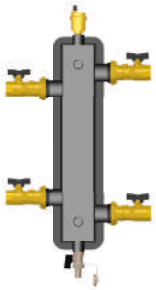
Dual distribution manifold with thermal insulation - wall mounting brackets - complete with running nuts for distribution and regulating group connection

Max working temperature: ***110 °C***
Max working pressure: ***4 bar***
Connection centre distance: ***125 mm***
Material: ***steel***

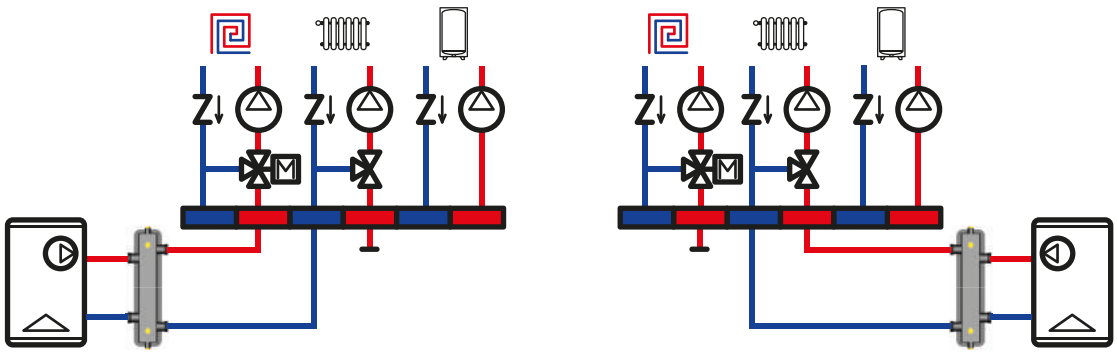
Code	Size	m³/h	Nr. of zones		€
P72 050 002	G 2 M - G 2 RN	6,5	2	1	-
P72 050 003	G 2 M - G 2 RN	6,5	3	1	-
P72 050 004	G 2 M - G 2 RN	6,5	4	1	-
P72 050 005	G 2 M - G 2 RN	6,5	5	1	-
P72 050 006	G 2 M - G 2 RN	6,5	6	1	-

Hydraulic separator operating principle according to primary and secondary flow rate - accessories of separators





Versatility of P72.DN32 manifolds



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

52D032.01

2 ball shut-off valve kit with pump connection G 2 RN

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
52D 032 000 01 NEW	G 1 1/4 F - G 2 RN	red	1	8	-

52D032.02

2 ball shut-off valve kit with pump connection G 2 RN and check valve insert integrated on the ball valve on the return

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
52D 032 000 02 NEW	G 1 1/4 F - G 2 RN	1	6	-

38D.DN32

Monobloc with pump connection (ball shut-off valve + temperature gauge) - temperature gauge 0–120 °C - DN 32

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 032 000	G 2 RN - G 1 1/4 F	red	-	16	-

50D.M50

Ball shut-off valve with pump connection with possibility of temperature gauge integration - male connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
50D M50 000 R	G 2 RN - G 2 M	red	-	25	-

37D.DN32

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve) - temperature gauge 0–120 °C - DN 32

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 032 000	G 1 1/4 F - G 2 RN	blue	-	16	-

44D.DN32

2 female fittings (tailpieces and nuts) with flat gasket - DN 32

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
44D 032 000	G 1 1/4 F - G 2 RN	2	-	-

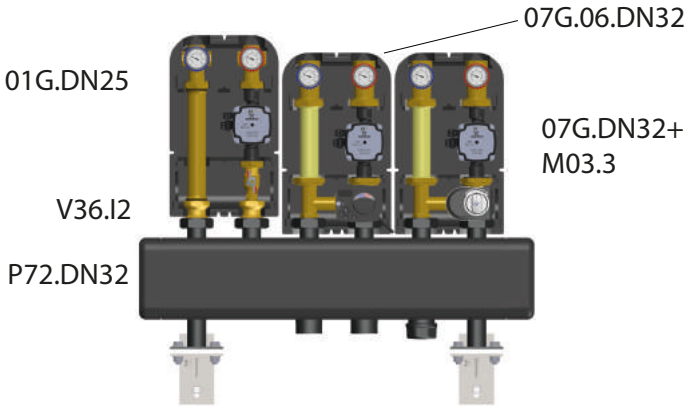
V36.I2

2 adapter fittings between DN 25 groups and DN 32 manifolds - flat gasket

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
V36 050 000 I2	G 2 M - G 1 1/2 F	2	-	-

Connection of a DN 25 group to the P72.DN32 manifold by means of the V36.I2 fittings



NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

45D.DN32

T-joint - DN 32

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
45D 050 000 ONR	G 2 RN - G 2 M - G 1 1/4 RN	-	-	-

40D.DN32

Extension with flat seat, connection distance 280 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 050 000 ONR	G 2 M - 280 mm	-	-	-

40D.2.DN32

Extension with flat seat, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 050 002 ONR	G 2 M - 180 mm	-	-	-

42D.DN32

Bracket for wall mounting of the distribution and regulating groups, with screws and anchors

Hole centre distance: ***90 mm***
Hole diameter: ***8 mm***

Code			€
42D 032 Z00 I	1	25	-

11D.120

Axial temperature gauge

Scale: ***0–120 °C***
Diameter: ***51 mm***
Stem diameter: ***5 mm***
Stem total lenght: ***50,5 mm***

Code	Size			€
11D 015 000 120	Ø 51 mm	1	10	-

V38.05

Kit with Y fitting and immersion probe pocket

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 05	G 1/2 M	2	-	-
V38 020 000 05	G 3/4 M	2	-	-
V38 025 000 05	G 1 M	2	-	-
V38 032 000 05 ONR	G 1 1/4 M	2	-	-

Fitting V38.05 with pocket specific for immersion probe

440.I

Knob and screw kit for mixing valve manual setting

Code		€
440 015 011 I		-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V38.06

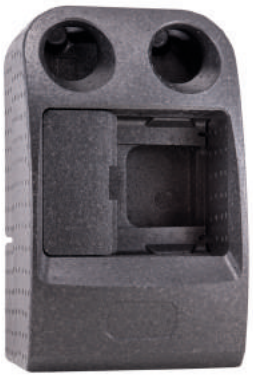
Kit with Y fitting and immersion probe holder with seal on the probe

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 06	G 1/2 M	2	-	-
V38 020 000 06	G 3/4 M	2	-	-
V38 025 000 06	G 1 M	2	-	-
V38 032 000 06 ONR	G 1 1/4 M	2	-	-

Fitting V38.06 with immersion probe holder with seal on the probe

43D.DN32



Distribution and regulating group insulation

Material: ***EPP***

Code	Size		€
43D 032 000	247-410-212 mm	1	-

23AK.DN32

Spare pump Grundfos UPM3 AUTO L 32-70 180 with high efficiency without autoadapt (EEI<0,20). Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
23A 050 070 BK ONR	G 2 M	3	1	-

05A.DN32

Spare pump Grundfos UPSO 32-65 180 with 3 constant speeds (Extra EU)

Max head: ***6,5 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

Code	Size	€
05A 050 065 B ONR	G 2 M	-

18A.DN32

Spare pump Grundfos UPML 32-XX 180 with high efficiency (EEI<0,23). With 2 m cable and rapid connector

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***180 mm***

Code	Size	Pump	Max head [m w.g.]	€
18A 050 095 B ONR	G 2 M	UPML 32-95 180	9,5	-
18A 050 105 B ONR	G 2 M	UPML 32-105 180	10,5	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

27B.N

New Design

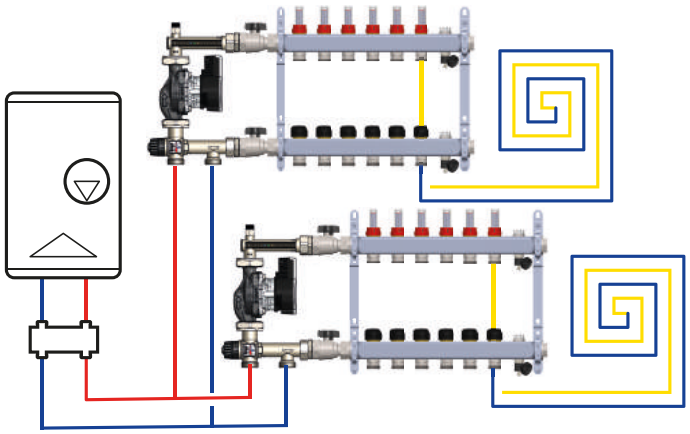
Recessed regulating group with thermostatic mixing valve 20–43 °C. The group is supplied with temperature gauge and integrated air vent. Complete with fittings for manifold connection. Version without pump on request.

Temperature adjustment range: ***20–43 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance to secondary manifold: ***211 mm***
Flow coefficient Kv of the mixing valve only

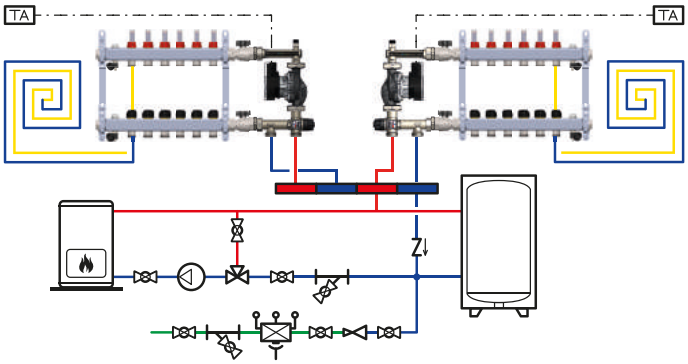
BAFA LIST

Code	Size	Kv	Pump		€
27B 040 N0P 1 TBS	G 1 M	2,5	**wilo** Para 25-130/7-50/SC-12	1	-
27B 040 N0S 1 NEW	G 1 M	2,5	GRUNDFOS UPM3 AUTO L 25-70 130	1	-
27B 040 N0M 1 NEW	G 1 M	2,5	GRUNDFOS (Extra EU) UPSO 25-65 130	1	-

Groups 27B.N with gas boiler and hydraulic separator



Groups 27B.N with solid fuel generator and buffer storage in parallel



17B.N-17B.1.N

Recessed regulating group with thermostatic mixing valve. The group is supplied with temperature gauge in a single bag and integrated air vent. Complete with fittings for manifold connection and elbow fitting for primary circuit connection. Yellow versions on request. Version without pump on request.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance to secondary manifold: ***211 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C		€
17B 040 N0S TBS	Rp 3/4 - G 1 M	3,5	GRUNDFOS UPM3 AUTO L 25-70 130	30–60	1	-
17B 040 N0I ONR	Rp 3/4 - G 1 M	3,5	**wilo** Yonos Para 25-6 130 RKA	30–60	1	-
17B 040 N0O	Rp 3/4 - G 1 M	3,5	GRUNDFOS (Extra EU) UPSO 25-65 130	30–60	1	-
17B 040 N1S	Rp 3/4 - G 1 M	3,5	GRUNDFOS UPM3 AUTO L 25-70 130	25–50	1	-
17B 040 N1I ONR	Rp 3/4 - G 1 M	3,5	**wilo** Yonos Para 25-6 130 RKA	25–50	1	-
17B 040 N10	Rp 3/4 - G 1 M	3,5	GRUNDFOS (Extra EU) UPSO 25-65 130	25–50	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

18B.N-18B.1.N

Recessed regulating group with thermostatic mixing valve and differential by-pass (setting 2–6,5 m w.g.). The group is supplied with temperature gauge in a single bag and integrated air vent. Complete with fittings for manifold connection and elbow fitting for primary circuit connection. Yellow versions on request. Version without pump on request.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance to secondary manifold: ***211 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	°C	📦	€
18B 040 N0S	Rp 3/4 - G 1 M	3,5	GRUNDFOS UPM3 AUTO L 25-70 130	30–60	1	-
18B 040 N0I ONR	Rp 3/4 - G 1 M	3,5	wilo Yonos Para 25-6 130	30–60	1	-
18B 040 N00	Rp 3/4 - G 1 M	3,5	GRUNDFOS (Extra EU) UPSO 25-65 130	30–60	1	-
18B 040 N1S	Rp 3/4 - G 1 M	3,5	GRUNDFOS UPM3 AUTO L 25-70 130	25–50	1	-
18B 040 N1I ONR	Rp 3/4 - G 1 M	3,5	wilo Yonos Para 25-6 130	25–50	1	-
18B 040 N10	Rp 3/4 - G 1 M	3,5	GRUNDFOS (Extra EU) UPSO 25-65 130	25–50	1	-

07B.N

Differential by-pass kit - setting 2–6,5 m w.g.. Yellow versions on request.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection centre distance to group: ***211 mm***

Code	Size	📦	€
07B 015 N00	15 mm - G 3/4 M - Rp 3/4	15	-

24B.N

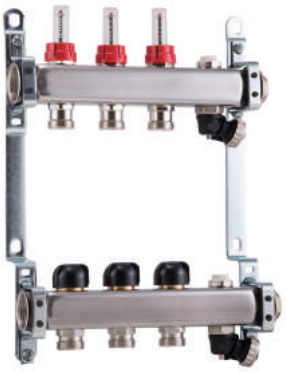
Recessed or under boiler regulating group with thermostatic mixing valve 25–58 °C. Complete with fittings for manifold connection. Yellow versions on request.

Temperature adjustment range: ***25–58 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Connection centre distance to secondary manifold: ***211 mm***
Flow coefficient Kv of the mixing valve only

BAFA LIST

Code	Size	Kv	Pump	📦	€
24B 040 N0S	Rp 3/4 - G 1 M	4,5	GRUNDFOS UPM3 AUTO L 25-70 130	1	-
24B 040 N0I ONR	Rp 3/4 - G 1 M	4,5	wilo Yonos Para 25-6 130	1	-
24B 040 N0M	Rp 3/4 - G 1 M	4,5	GRUNDFOS (Extra EU) UPSO 25-65 130	1	-

08M

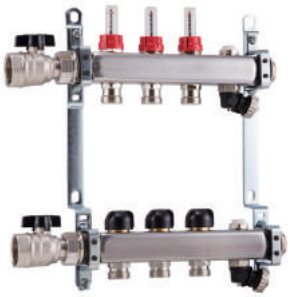


Stainless steel flow+return distribution manifold, preassembled. Manual air vent and drain cock. Main connection G 1 F. Flow manifold complete with flow rate regulators and flow meters, scale 0–5 l/min. Flow meters can be cleaned. Return manifold fitted for thermo-electric actuators. G 3/4 M eurocone outlets. Mounting brackets

Max working temperature: ***70 °C***
Max working pressure: ***6 bar***
Main connection centre distance: ***211 mm***
Outlet centre distance: ***50 mm***
Thermo-electric actuator: ***M30x1,5 mm***

Code	Size	Nr. of zones	📦	€
08M 025 N02	G 1 F - G 3/4 M	2	1	-
08M 025 N03	G 1 F - G 3/4 M	3	1	-
08M 025 N04	G 1 F - G 3/4 M	4	1	-
08M 025 N05	G 1 F - G 3/4 M	5	1	-
08M 025 N06	G 1 F - G 3/4 M	6	1	-
08M 025 N07	G 1 F - G 3/4 M	7	1	-
08M 025 N08	G 1 F - G 3/4 M	8	1	-
08M 025 N09	G 1 F - G 3/4 M	9	1	-
08M 025 N10	G 1 F - G 3/4 M	10	1	-
08M 025 N11	G 1 F - G 3/4 M	11	1	-
08M 025 N12	G 1 F - G 3/4 M	12	1	-

16M

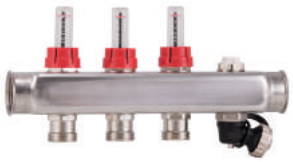


Stainless steel flow+return distribution manifold, preassembled. Ball shut-off valves. Manual air vent and drain cock. Main connection G 1 F. Flow manifold complete with flow rate regulators and flow meters, scale 0–5 l/min. Flow meters can be cleaned. Return manifold fitted for thermo-electric actuators. G 3/4 M eurocone outlets. Mounting brackets

Max working temperature: ***70 °C***
Max working pressure: ***6 bar***
Main connection centre distance: ***211 mm***
Outlet centre distance: ***50 mm***
Thermo-electric actuator: ***M30x1,5 mm***

Code	Size	Nr. of zones	📦	€
16M 025 N02	G 1 F - G 3/4 M	2	1	-
16M 025 N03	G 1 F - G 3/4 M	3	1	-
16M 025 N04 TBS	G 1 F - G 3/4 M	4	1	-
16M 025 N05 TBS	G 1 F - G 3/4 M	5	1	-
16M 025 N06 TBS	G 1 F - G 3/4 M	6	1	-
16M 025 N07 TBS	G 1 F - G 3/4 M	7	1	-
16M 025 N08 TBS	G 1 F - G 3/4 M	8	1	-
16M 025 N09 TBS	G 1 F - G 3/4 M	9	1	-
16M 025 N10 TBS	G 1 F - G 3/4 M	10	1	-
16M 025 N11 TBS	G 1 F - G 3/4 M	11	1	-
16M 025 N12 TBS	G 1 F - G 3/4 M	12	1	-

07M



Stainless steel flow distribution manifold. Manual air vent and drain cock. Main connection G 1 F. Complete with flow rate regulators and flow meters, scale 0–5 l/min. Flow meters can be cleaned. G 3/4 M eurocone outlets

Max working temperature: ***70 °C***
Max working pressure: ***6 bar***
Outlet centre distance: ***50 mm***

Code	Size	Nr. of zones	📦	€
07M 025 N02	G 1 F - G 3/4 M	2	1	-
07M 025 N03	G 1 F - G 3/4 M	3	1	-
07M 025 N04	G 1 F - G 3/4 M	4	1	-
07M 025 N05	G 1 F - G 3/4 M	5	1	-
07M 025 N06	G 1 F - G 3/4 M	6	1	-
07M 025 N07	G 1 F - G 3/4 M	7	1	-
07M 025 N08	G 1 F - G 3/4 M	8	1	-
07M 025 N09	G 1 F - G 3/4 M	9	1	-
07M 025 N10	G 1 F - G 3/4 M	10	1	-
07M 025 N11	G 1 F - G 3/4 M	11	1	-
07M 025 N12	G 1 F - G 3/4 M	12	1	-

06M

Stainless steel return distribution manifold. Manual air vent and drain cock. Main connection G 1 F. Fitted for thermo-electric actuators - G 3/4 M eurocone outlets

Max working temperature: ***70 °C***
Max working pressure: ***6 bar***
Outlet centre distance: ***50 mm***
Thermo-electric actuator: ***M30x1,5 mm***

Code	Size	Nr. of zones	📦	€
06M 025 N02	G 1 F - G 3/4 M	2	1	-
06M 025 N03	G 1 F - G 3/4 M	3	1	-
06M 025 N04	G 1 F - G 3/4 M	4	1	-
06M 025 N05	G 1 F - G 3/4 M	5	1	-
06M 025 N06	G 1 F - G 3/4 M	6	1	-
06M 025 N07	G 1 F - G 3/4 M	7	1	-
06M 025 N08	G 1 F - G 3/4 M	8	1	-
06M 025 N09	G 1 F - G 3/4 M	9	1	-
06M 025 N10	G 1 F - G 3/4 M	10	1	-
06M 025 N11	G 1 F - G 3/4 M	11	1	-
06M 025 N12	G 1 F - G 3/4 M	12	1	-

📦	NUMBER OF PIECES IN BOX
📦	NUMBER OF PIECES IN CARTON
TBS	ARTICLE THE BEST SELLER
ONR	ARTICLE ON REQUEST
NEW	NEW ARTICLE

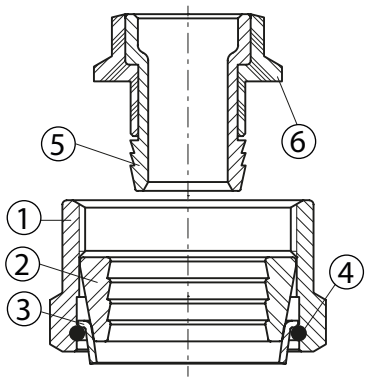
V58

Compression fitting for PEx and multilayer pipes. For heating and cooling circuits. Other sizes available on request.

Tightening torque: ***15–20 N·m***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size	Pipe [mm]			€
V58 034 NEA TBS	G 3/4 F	16x2	10	-	-
V58 034 NFA TBS	G 3/4 F	17x2	10	-	-
V58 034 NHB TBS	G 3/4 F	20x2,25	10	-	-

Fitting V58



Advantages and characteristics of V58 fittings for multilayer and PEx pipes:
- Composed of two parts only: nut and reinforcing insert
- NBR gasket coupled to the reinforcing insert
- Pipe anti-torsion ring. The nut contains an elastic ring with a function similar to a ball bearing: when screwing the nut, the elastic ring avoids the pipe torsion thus making the installation easier and faster. The installation can be performed using one hand only.
- Components:
1) Nickel plated nut
2) Nylon bush
3) Steel pressing ring
4) Stainless steel anti-torsion elastic ring
5) Brass reinforcing insert
6) NBR gasket

V38.14

Spare mounting brackets for stainless steel manifolds

Material: ***zinc plated steel***

Code			€
V38 025 000 14	2	-	-

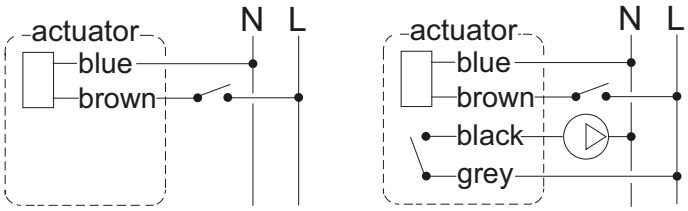
M20.C

Thermo-electric actuator with open position indicator, adaptor and rapid connection. Normally closed. Auxiliary microswitch (only in 4 pole version), IP 54, 1 m cable.

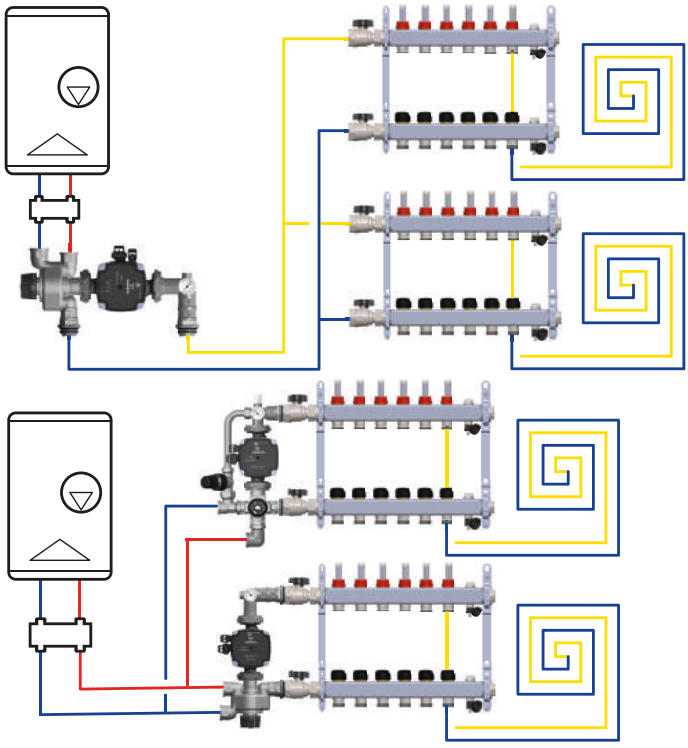
Protection class: ***IP 54***
Frequency: ***50–60 Hz***
Inrush current: ***max 550 mA***
Power consumption: ***1 W***
Aux. microswitch contact rating: ***5 (1) A***
Ambient temperature: ***0–60 °C***

Code	Size	V	Nr. poles	Cable [m]			€
M20 011 A0C	M30x1,5	230	2	1	1	-	-
M20 011 B0C	M30x1,5	230	4	1	1	-	-

Wiring diagram M20.C, 2 poles and 4 poles (aux. microswitch)



Diagrams with groups18B.N, 24B.N, manifolds 16M and hydraulic separator



630.1.2.N

4-way thermostatic mixing valve with 90° inlets - pump connection - Kv 3,5 - range 30–60 °C - flat gasket - nickel plated

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***30–60 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 N00 1	Rp 3/4 - G 1 1/2 RN	1	10	-

630.101.N

4-way thermostatic mixing valve with 90° inlets - pump connection - Kv 3,5 - range 25–50 °C - flat gasket - nickel plated

Flow coefficient: ***Kv 3,5***
Temperature adjustment range: ***25–50 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
630 A20 N10 1	Rp 3/4 - G 1 1/2 RN	1	10	-

W51.N

4-way thermostatic mixing valve "OCTOPUS" with mixed water at the central port and opposite inlets - pump connection - Kv 4,5 - range 25–58 °C - nickel plated

Flow coefficient: ***Kv 4,5***
Temperature adjustment range: ***25–58 °C***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
W51 A20 N00	Rp 3/4 - G 1 1/2 RN	1	12	-

P90.1

Kit with ball shut-off valve with running nut and flat gasket and fitting for distribution manifolds

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P90 025 N00 1	G 1 F - G 1 M	2	24	-

05B

Manual air vent with PTFE seal - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***
Fully open length: ***32 mm***
Fully closed length: ***28 mm***

Code	Size			€
05B 008 N03	G 1/4 M	10	200	-

P83

Manual air vent with adjustable drain position - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***

Code	Size			€
P83 015 N00	G 1/2 M	2	-	-

05BI

Axial temperature gauge with O_Ring

Scale: ***0-80 °C***
Diameter: ***32 mm***
Stem diameter: ***5 mm***
Stem total lenght: ***11 mm***
O-Ring: ***EPDM***

Code			€
05B 015 004 I	2	10	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

16B.N

MM running fitting with integrated O-Ring - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
16B 025 N00 1	G 3/4 M - G 1 M	25	100	-

16B

MM running fitting with integrated O-Ring

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
16B 025 000 1	G 3/4 M - G 1 M	25	100	-

Y47.N

Automatic air vent (compact version) - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
Y47 015 N00	G 1/2 M	10	100	-

19AK

Spare pump Grundfos UPM3 AUTO L 25-70 130 with high efficiency (EEI<0,20). Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
19A 040 070 BK ONR	G 1 1/2 M	3	1	-

14D.2

3 pole cable with 90° rapid connector for UPM3 AUTO, UPM3 AUTO L and UPM3 solar pumps

Code	Nr. poles	Cable [m]	€
14D 100 002	3	1	-

12A

Spare pump Wilo Yonos Para 25-6 130 RKA with high efficiency (EEI<0,20). With 1 m cable

Max head: ***6 m w.g.***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	€
12A 040 060 B ONR	G 1 1/2 M	-

29A

Spare pump Wilo Para with high efficiency (EEI<0,20). With 1 m cable

Max head: ***7,7 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	Pump	€
29A 040 070 BK ONR	G 1 1/2 M	Para 25-130/7-50/SC-12	-

01A.40

Spare pump Grundfos UPSO 25-65 with 3 constant speeds (Extra EU)

Max head: ***6,5 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

Code	Size	€
01A 040 065 B ONR	G 1 1/2 M	-

P39

Standard safety relief valve for heating systems

Opening overpressure: ***10%***
Reseating pressure: ***-20%***
Outflow coefficient: ***K=0,05***
Max working temperature: ***160 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***
2014/68/EU PED

Code	Size	Setting [bar]			€
P39 015 000 3	G 1/2 F - G 3/4 F	3	10	40	-
P39 015 000 6	G 1/2 F - G 3/4 F	6	10	40	-

615

Differential by-pass valve with running nuts - setting range 0,2–2,5 m w.g.. Complete with flat gaskets.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection distance: ***65 mm***

Code	Size			€
615 015 000	G 3/4 RN	1	40	-

616

Differential by-pass valve with running nuts - setting range 2–6,5 m w.g.. Complete with flat gaskets.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection distance: ***65 mm***

Code	Size			€
616 015 000	G 3/4 RN	1	40	-

617.1.N

Differential by-pass valve with compression end and running nut - setting 2–6,5 m w.g. - nickel plated. Complete with flat gaskets

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Connection distance: ***55 mm***

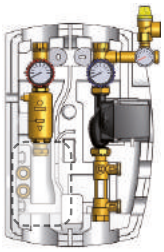
Code	Size			€
617 015 N00 1	G 3/4 RN - 15 mm	1	40	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

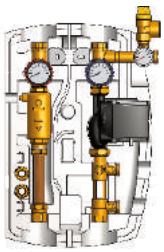
COMPONENTS FOR THERMAL SOLAR SYSTEM

B4

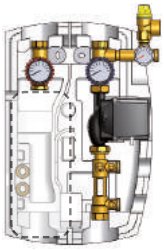
FLOW AND RETURN GROUPS: VERSIONS



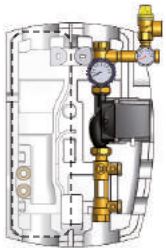
Without copper pipe
07S



Complete with copper pipe
01S



Without copper pipe and without deaerator



Return line only

AVAILABLE CONTROLLERS

Without controller

SOREL
09S-28S

SEITRON
12S-27S

RESOL
18S-19S

STECA
02S-08S

CIRCULATORS

Grundfos UPM3 Solar 15-75
with high efficiency

Grundfos Solar 15-65 (Extra EU)
Grundfos Solar 15-70 (Extra EU)

FLOW RATE REGULATORS WITH FLOW METER

0,5–15 l/min
3–35 l/min

ACCESSORIES

12D

15D

18D

30D

CONNECTION TYPES

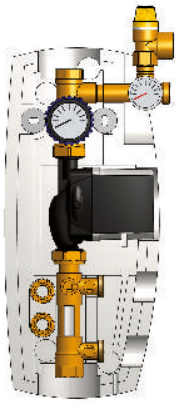
G 3/4 M

G 3/4 F

18 mm

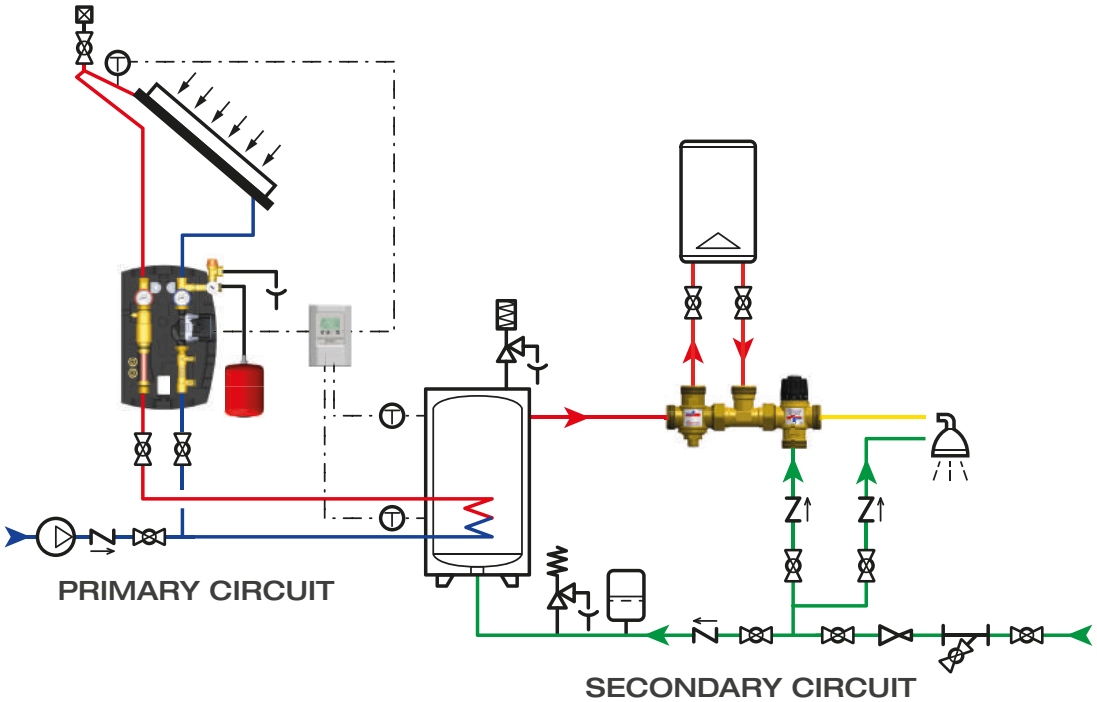
22 mm

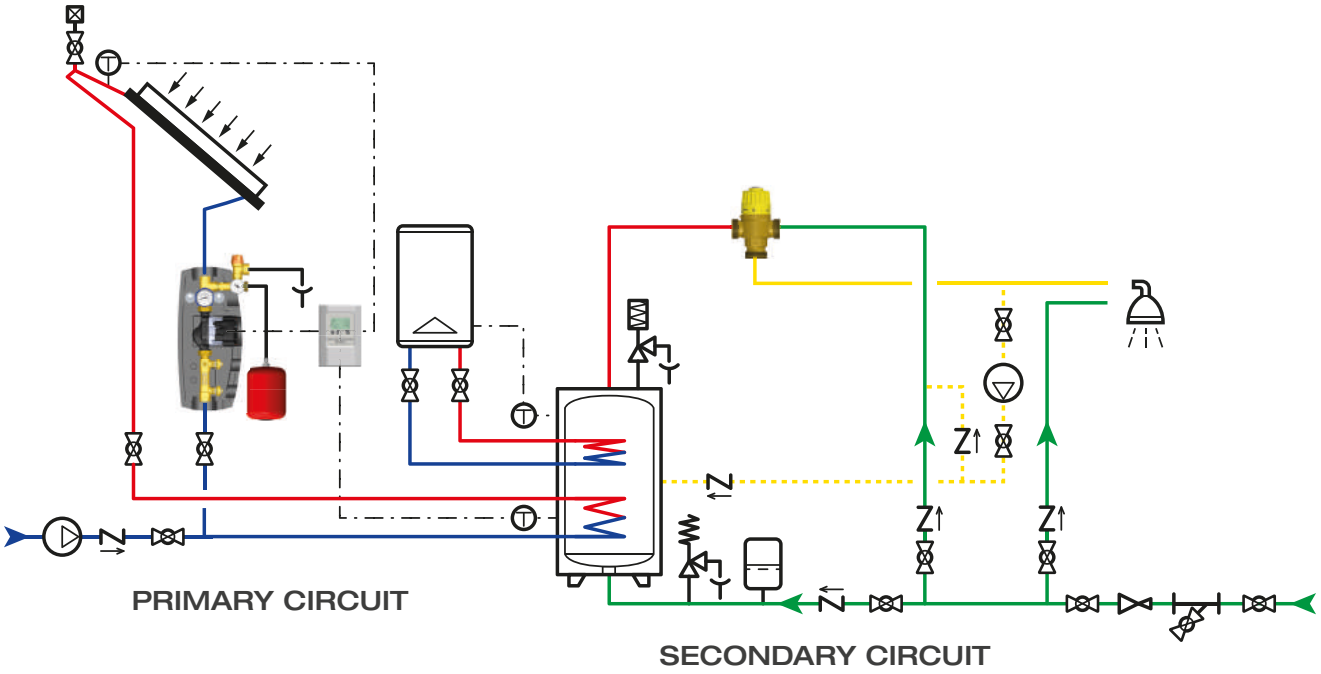
RETURN ONLY GROUPS: VERSIONS



Complete
05S

Without safety group
21S


PRIMARY CIRCUIT
SECONDARY CIRCUIT


PRIMARY CIRCUIT
SECONDARY CIRCUIT

07S

Pump station for solar thermal systems. Composed of return and flow connection without copper pipe. On request versions with compression fittings for copper pipes.

Safety relief valve setting: ***6 bar***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump	l/min	Controller		€
07S 020 0AU TBS	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
07S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
07S 020 0BU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
07S 020 0BA	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-
07S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
07S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
07S 020 0BU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
07S 020 0BA M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-

01S

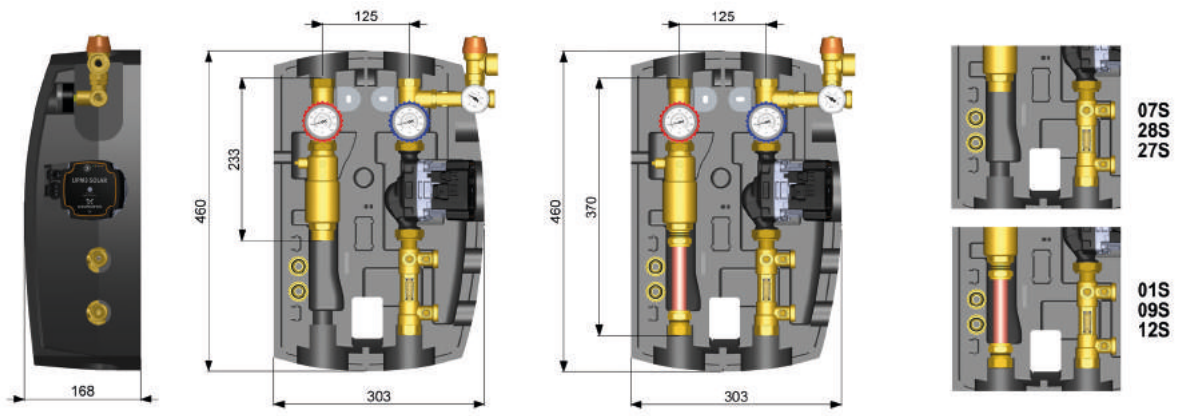
Pump station for solar thermal systems. Composed of return and flow connection with copper pipe. On request versions with compression fittings for copper pipes.

Safety relief valve setting: ***6 bar***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

BAFA LIST

Code	Size	Pump	l/min	Controller		€
01S 020 0AU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
01S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
01S 020 0BU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
01S 020 0BA	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-
01S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
01S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
01S 020 0BU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
01S 020 0BA M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-

Dimensions of groups without copper pipe (07S-28S-27S) and with copper pipe (01S-09S-12S) - Detail of groups without and with copper pipe



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

28S-27S

BAFA LIST

Pump station for solar thermal systems with system controller. Composed of return and flow connection without copper pipe

Safety relief valve setting: ***6 bar***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	Pump	l/min	Controller		€
28S 020 0AU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Sorel	1	-
28S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Sorel	1	-
28S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Sorel	1	-
28S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Sorel	1	-
27S 020 0AU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Seitron	1	-
27S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Seitron	1	-
27S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Seitron	1	-
27S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Seitron	1	-

09S-12S

BAFA LIST

Pump station for solar thermal systems with system controller. Composed of return and flow connection with copper pipe

Safety relief valve setting: ***6 bar***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Connection centre distance: ***125 mm***

Code	Size	Pump	l/min	Controller		€
09S 020 0AU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Sorel	1	-
09S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Sorel	1	-
09S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Sorel	1	-
09S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Sorel	1	-
12S 020 0AU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Seitron	1	-
12S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Seitron	1	-
12S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	Seitron	1	-
12S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	Seitron	1	-

05S

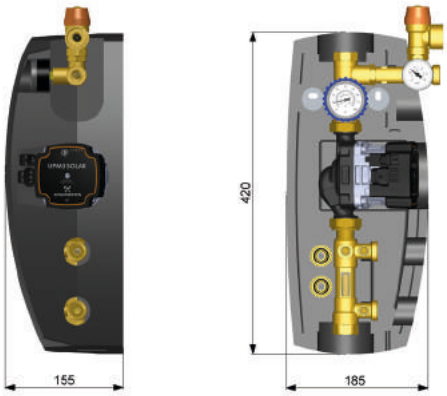
Pump station for solar thermal systems - only return line. On request versions with compression fittings for copper pipes.

Safety relief valve setting: ***6 bar***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

BAFA LIST

Code	Size	Pump	l/min	Controller	📦	€
05S 020 0AU TBS	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
05S 020 0AG	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
05S 020 0BU	G 3/4 F - G 3/4 F	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
05S 020 0BA	G 3/4 F - G 3/4 F	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-
05S 020 0AU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	0,5–15	-	1	-
05S 020 0AG M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-65 130	0,5–15	-	1	-
05S 020 0BU M	G 3/4 M - G 3/4 M	GRUNDFOS UPM3 Solar 15-75 130	3–35	-	1	-
05S 020 0BA M	G 3/4 M - G 3/4 M	GRUNDFOS (Extra EU) Solar 15-70 130	3–35	-	1	-

Dimensions of 05S group



12D-47D.A

Fitting G 3/4 M with compression end, with assembled nut, olive and O-Ring (codes "XXX XXX XXX M" without compression fitting)

Max working temperature: ***140 °C***
Max working pressure: ***16 bar***

Code	Size	📦	📦	€
12D 015 000	15 mm - G 3/4 M	2	-	-
12D 015 000 M	G 1/2 M - G 3/4 M	2	-	-
12D 018 000	18 mm - G 3/4 M	2	-	-
12D 020 000 M	G 3/4 M - G 3/4 M	2	-	-
12D 022 000	22 mm - G 3/4 M	2	-	-
12D 025 000 M	G 1 M - G 3/4 M	2	-	-
47D 020 004 A ONR	22 mm - G 3/4 F	2	-	-

📦 NUMBER OF PIECES IN BOX
📦 NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

33D

Solar thermal system controller with 3 temperature probes - 3 Input NTC, 2 Output on/off, 1 Output alarm, 1 Output PWM, 1 Output 0–10 V

Supply: ***230 V - 50 Hz***
Protection class: ***IP 40***
Preset programs: ***6***
Supplied probes: ***3 NTC 10K @ 25 °C ± 1%***
Working temperature range of probes: ***-50–200 °C (blue), -50–110 °C (yellow)***

Code	Size	Controller			€
33D 000 000 TBS	L-H-D 155-110-30	Seitron TDST24M	1	-	-

34D

Solar thermal system controller with 3 temperature probes - 4 Input Pt1000, 2 Output on/off, 1 Output PWM or 0–10 V

Supply: ***100–240 V - 50–60 Hz***
Protection class: ***IP 40***
Preset programs: ***27***
Supplied probes: ***3 Pt 1000***
Optional probe: ***1 Pt 1000***
Working temperature range of probes: ***-40–300 °C***

Code	Size	Controller			€
34D 000 001	L-H-D 106-157-31	Sorel MTDC	1	-	-

14D.4

Spare probe Pt 1000, maximum temperature 180 °C.

Max working temperature: ***180 °C***

Code	Size	Cable [m]			€
14D 100 004 I	6 mm	1,5	-	-	-

14D.6

Spare probe NTC 10K @ 25 °C ± 1%, working temperature range -50–200 °C (blue).

Working temperature range of probes: ***-50–200 °C (blue)***

Code	Size	Cable [m]			€
14D 100 006 I NEW	6 mm	1,5	-	-	-

04D

Safety relief valve for primary circuit of solar thermal systems

Opening overpressure: ***10%***
Reseating pressure: ***-20%***
Outflow coefficient: ***K=0,05***
Max working temperature: ***160 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***
2014/68/EU PED

Code	Size	Setting [bar]			€
04D 015 000 3	G 1/2 F - G 3/4 F	3	10	40	-
04D 015 000 6	G 1/2 F - G 3/4 F	6	10	40	-

03D

Safety group composed of safety relief valve, pressure gauge (0–10 bar), expansion vessel connection, connection with O-Ring and locking nut

Opening overpressure: ***10%***
Reseating pressure: ***-20%***
Outflow coefficient: ***K=0,05***
Max working temperature: ***140 °C***
Max working pressure: ***10 bar***
Suitable fluids: ***water, glycol solutions (max 50%)***

Code	Size	Setting [bar]			€
03D 015 000 3	G 1/2 M - G 3/4 M	3	1	20	-
03D 015 000 6	G 1/2 M - G 3/4 M	6	1	20	-

15D

Automatic shut-off valve for expansion vessel replacement

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
15D 020 000	G 3/4 M - G 3/4 F	10	40	-

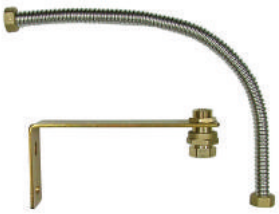
30D

Expansion vessel for primary and secondary circuit of solar thermal systems. Versions with maximum pressure 10 bar have interchangeable membrane. Balloon (bladder) membrane

Max working temperature: ***99 °C***
Max working peak temperature: ***130 °C (max 4 h/day)***
Suitable fluids: ***water, glycol solutions (max 50%)***
Suitable for potable water

Code	Size	Litres	P [bar]		€
30D 020 006 12	G 3/4 M	12	8	1	-
30D 020 006 18	G 3/4 M	18	8	1	-
30D 020 006 25	G 3/4 M	25	8	1	-
30D 020 006 40	G 3/4 M	40	8	1	-
30D 020 008 12	G 3/4 M	12	10	1	-
30D 020 008 19	G 3/4 M	19	10	1	-
30D 020 008 25	G 3/4 M	25	10	1	-
30D 020 008 40	G 3/4 M	40	10	1	-

18D



Expansion vessel installation kit (hose, bracket, wall anchors and automatic shut-off valve 15D) - hose length 500 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
18D 020 000	G 3/4 F	-	15	-

18D.1

Expansion vessel installation kit (hose, bracket, wall anchors and automatic shut-off valve 15D) - hose length 730 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
18D 020 000 1	G 3/4 F	-	15	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

06D

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + holes for brackets) - temperature gauge 0–160 °C (32–320 °F) - red knob

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
06D 020 000 R	G 3/4 F - G 1 RN	red	-	24	-

07D

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + holes for brackets + check valve override + side connection) - temperature gauge 0–160 °C (32–320 °F) - blue handle

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
07D 020 000	G 1 RN - G 3/4 F	blue	-	24	-

P71

Vertical manual deaerator

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
P71 020 000	G 1 M - G 3/4 F	1	28	-
P71 020 000 M	G 1 M - G 3/4 M	1	28	-
P71 022 000	G 1 M - 22 mm	1	28	-

02D-28D-31D-32D

Flow rate regulator DN 15 with glass measurement zone, 2 fill/drain connections with ball shut-off valves - flow rate regulation through ball valve

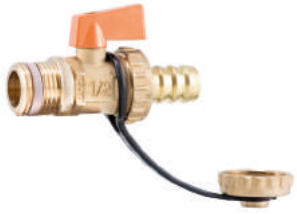
Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size	l/min			€
02D 015 000 PT	G 3/4 F - G 1 RN - G 3/4 M	0,5–15	1	20	-
02D 018 000 PT	18 mm - G 1 RN - G 3/4 M	0,5–15	1	20	-
02D 020 000 PTM	G 3/4 M - G 1 RN - G 3/4 M	0,5–15	1	20	-
02D 022 000 PT	22 mm - G 1 RN - G 3/4 M	0,5–15	1	20	-
28D 015 000 PT ONR	G 3/4 F - G 1 1/2 RN - G 3/4 M	0,5–15	1	20	-
31D 015 000 PT	G 3/4 F - G 1 RN - G 3/4 M	3–35	1	20	-
32D 015 000 PT ONR	G 3/4 F - G 1 1/2 RN - G 3/4 M	3–35	1	20	-

P32

Ball drain cock for solar thermal systems - with 15 mm hose connection and plug

Max working temperature: ***150 °C***
Max working pressure: ***16 bar***



Code	Size			€
P32 015 000	G 1/2 M	10	40	-

005KV

Universal check valve - FF - brass obturator - viton gasket

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
005 008 000 KV	G 1/4 F	35	30	240	-
005 010 000 KV	G 3/8 F	35	30	240	-
005 015 000 KV	G 1/2 F	35	30	240	-
005 020 000 KV	G 3/4 F	35	18	144	-
005 025 000 KV	G 1 F	35	14	84	-
005 032 000 KV	G 1 1/4 F	25	12	72	-
005 040 000 KV	G 1 1/2 F	25	10	40	-
005 050 000 KV	G 2 F	25	6	36	-
005 065 000 KV ONR	G 2 1/2 F	12	-	15	-
005 080 000 KV ONR	G 3 F	12	-	12	-
005 100 000 KV ONR	G 4 F	12	-	5	-

020KV

Universal check valve - FF - brass obturator - viton gasket - suitable for high pressure application

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
020 010 000 KV	G 3/8 F	50	24	192	-
020 015 000 KV	G 1/2 F	50	20	160	-
020 020 000 KV	G 3/4 F	50	12	96	-
020 025 000 KV	G 1 F	50	8	64	-
020 032 000 KV	G 1 1/4 F	35	8	48	-
020 040 000 KV	G 1 1/2 F	35	6	36	-
020 050 000 KV	G 2 F	35	5	20	-

11D.160

Axial temperature gauge

Scale: ***0–160 °C / 32–320 °F***
Diameter: ***51 mm***
Stem diameter: ***5 mm***
Stem total lenght: ***50,5 mm***

Code	Size			€
11D 015 000 160	Ø 51 mm	-	10	-

22AK

Spare pump Grundfos UPM3 Solar 25-75 130 with high efficiency (EEI<0,20). Complete with 3 pole cable.

Max head: ***7,5 m w.g.***
Max working temperature: ***100 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

BAFA LIST

Code	Size	Nr. poles	Cable [m]	€
22A 025 075 BK ONR	G 1 M	3	1	-

14D.2

3 pole cable with 90° rapid connector for UPM3 AUTO, UPM3 AUTO L and UPM3 solar pumps

Code	Nr. poles	Cable [m]	€
14D 100 002	3	1	-

14D.3

Cable for PWM signal with rapid connector (Superseal type) for UPM3 solar pump

Code	Nr. poles	Cable [m]	€
14D 100 003	3	1	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

04AK.65

Spare pump Grundfos UPS (Extra EU) Solar 15-65 130 for solar thermal systems with 3 constant speeds. Complete with 3 pole cable.

Max head: ***6,5 m w.g.***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

Code	Size	Nr. poles	Cable [m]	€
04A 025 065 BK ONR	G 1 M	3	1	-

04AK.70

Spare pump Grundfos UPS (Extra EU) Solar 15-70 130 for solar thermal systems with 3 constant speeds. Complete with 3 pole cable.

Max head: ***7 m w.g.***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***
Centre distance: ***130 mm***

Code	Size	Nr. poles	Cable [m]	€
04A 025 070 BK ONR	G 1 M	3	1	-

14D

3 pole cable with rapid connector for UPS solar pump

Code	Nr. poles	Cable [m]	€
14D 100 000	3	1	-

P04

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000	G 3/4 M	1	20	-
P04 A25 000	G 1 M	1	20	-

P05

Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P05 A20 000	G 3/4 M	1	20	-
P05 A25 000	G 1 M	1	20	-

P04.L2

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C. Fittings and check valves insert unassembled (V38.04)

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000 L2 TBS	G 3/4 M	1	20	-
P04 A25 000 L2	G 1 M	1	20	-

P05.L2

Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C. Fittings and check valve insert unassembled (V38.04)

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P05 A20 000 L2	G 3/4 M	1	20	-
P05 A25 000 L2 TBS	G 1 M	1	20	-

P04.L4

Thermal solar system thermostatic mixing valve - antiscald - Kv 1,8 - range 30–65 °C. With compact fittings and check valve insert unassembled (V38.02)

Flow coefficient: ***Kv 1,8***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
P04 A20 000 L4	G 3/4 M	1	20	-

P05.L4

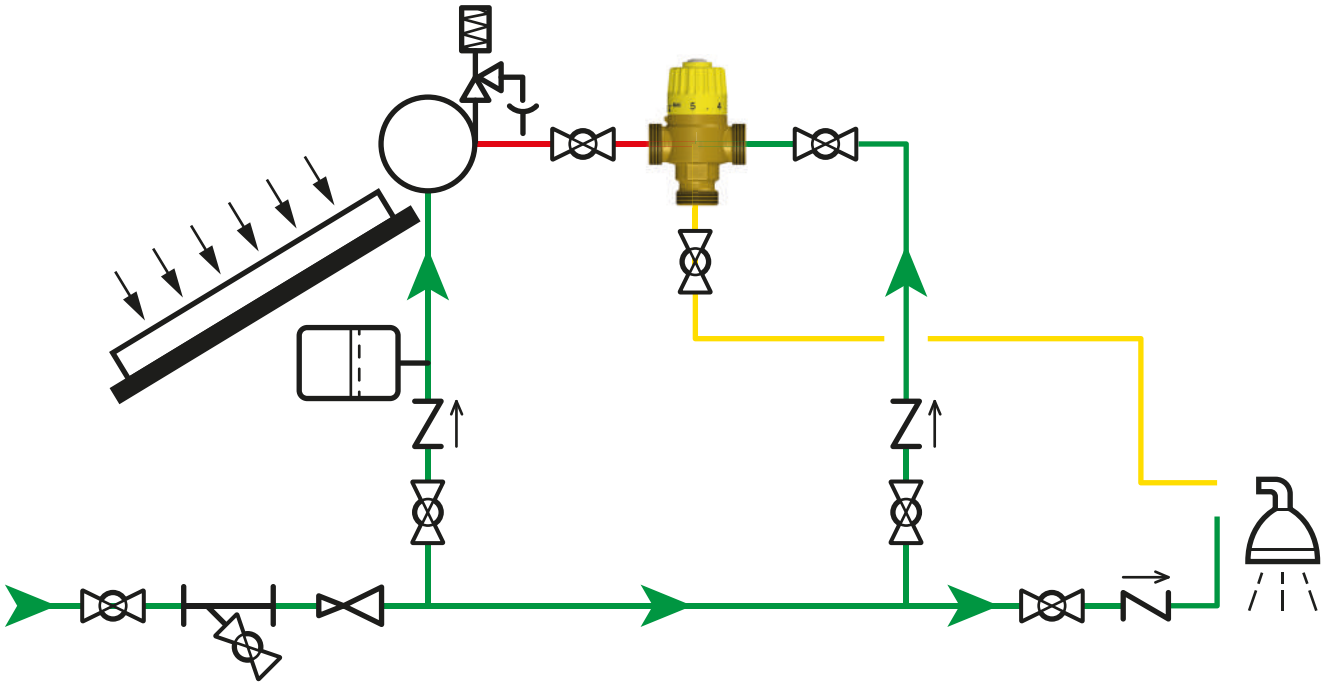
Thermal solar system thermostatic mixing valve - antiscald - Kv 2,3 - range 30–65 °C. With compact fittings and check valve insert unassembled (V38.02)

Flow coefficient: ***Kv 2,3***
Temperature adjustment range: ***30–65 °C***
Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

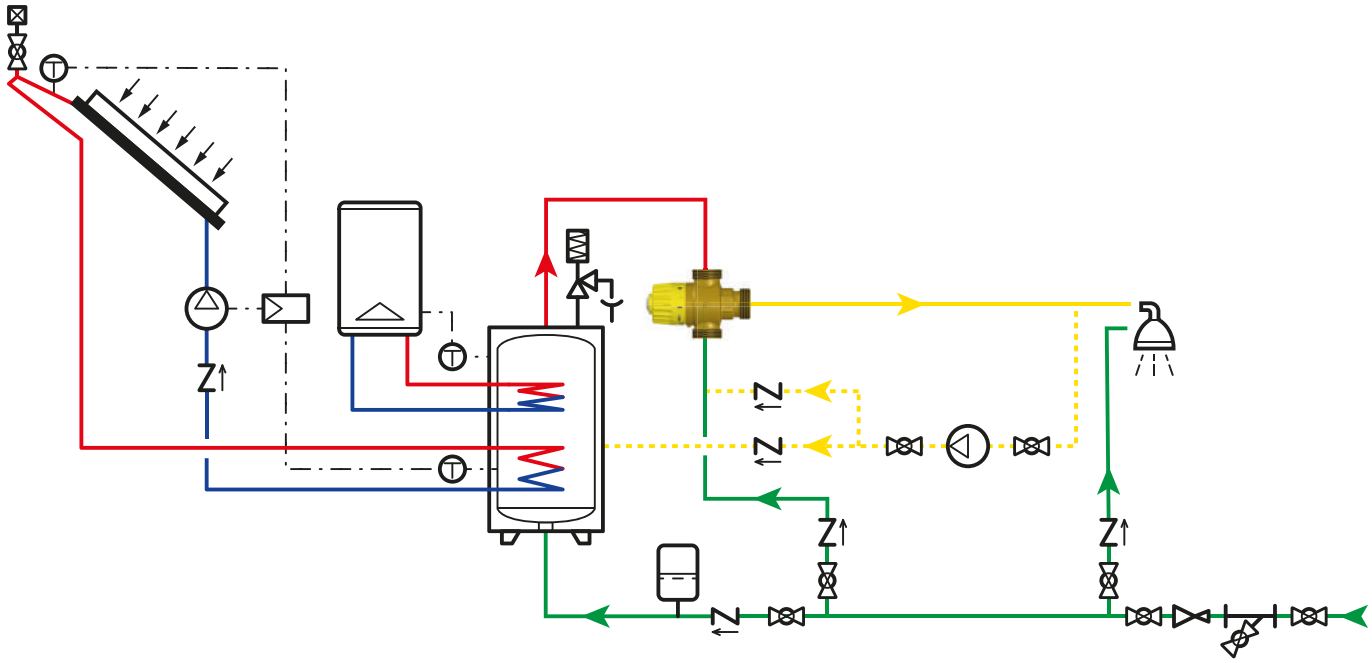
Code	Size			€
P05 A20 000 L4	G 3/4 M	1	20	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

Natural circulation solar system



Forced circulation solar and recirculation system



V20

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001	G 1 M	1	10	-

V20.L1

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve - 5 fittings and 3 check valves inserts. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001 L1 TBS	G 1 M	1	6	-

V20.L2

Solar-to-boiler thermal integration kit with thermostatic diverting valve and thermostatic mixing valve - 5 fittings P93. For boiler with storage or boiler with instantaneous DHW production able to receive pre-heated water at the inlet.

Flow coefficient: ***Kv 2***
Temperature adjustment range: ***35–60 °C***
Diverting valve setting: ***45 °C***
Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Kv 2

Code	Size			€
V20 M25 001 L2	G 3/4 M	1	6	-

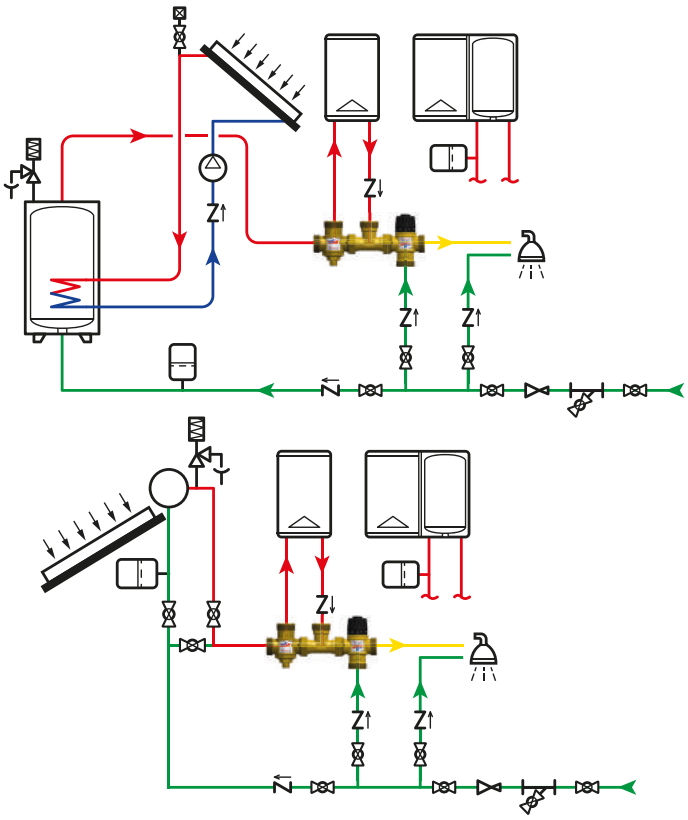
V20.1

Insulation for solar-to-boiler integration kit V20, V20.L1, V20.L2

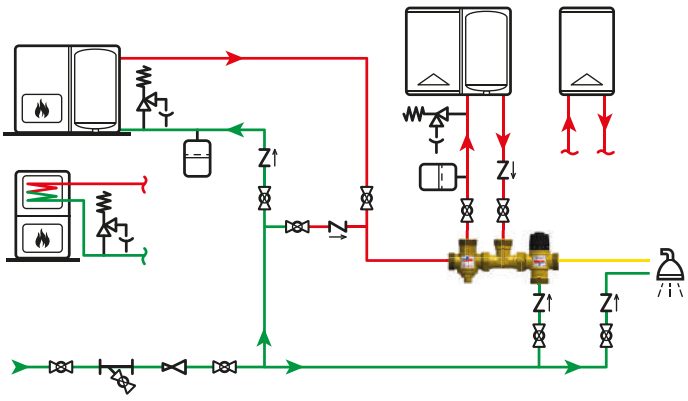
Max working temperature: ***140 °C***

Code	Size			€
V20 000 001	225 mm x 100 mm	-	-	-

V20 for integration: forced circulation solar-to-boiler; natural circulation solar-to-boiler



V20 for biomass-to-boiler integration



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

ZONE AND DIVERTING VALVES

B5

Y58.1

3-way zone diverting valve - male thread - 2 point actuator with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Max differential pressure: ***1 bar***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Rotation angle: ***60°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
Y58 020 000 MR1 TBS	G 3/4 M	8	230	8	3	1	1	6	-
Y58 025 000 MR1 TBS	G 1 M	8	230	8	3	1	1	6	-

Y73.1

Compact 3-way zone diverting valve - male thread - 2 point actuator with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Max differential pressure: ***1 bar***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Rotation angle: ***60°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
Y73 025 000 MR1	G 1 M	8	230	8	3	1	1	6	-
Y73 032 000 MR1	G 1 1/4 M	8	230	8	3	1	1	6	-

Y28.1

3-way zone diverting valve - compression ends - 2 point actuator with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Max differential pressure: ***1 bar***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Rotation angle: ***60°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
Y28 022 000 MR1	22 mm	8	230	8	3	1	1	6	-
Y28 028 000 MR1	28 mm	8	230	8	3	1	1	6	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

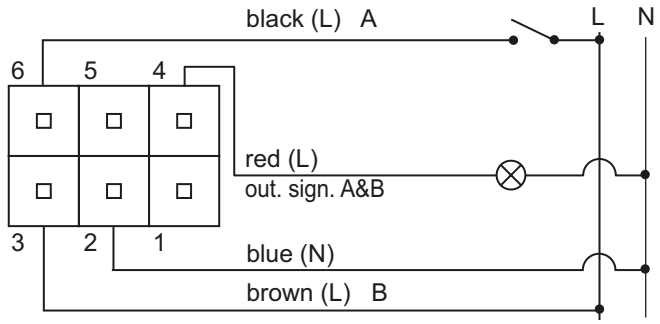
Y27

Actuator for 3-way zone diverting valves and 2-way zone valves. 2 points with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Rotation angle: ***60°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
Y27 230 R00 1	230	8	3	1	1	10	-

Wiring diagram Y27



Y27.1

Actuator cable for 3-way zone diverting valves and 2-way zone valves with plug connector - 3 poles

Max working temperature: ***105 °C***
Pole cross-section: ***3 x 0,75 mm2***
Max electrical resistance (20 °C): ***26 Ω/km***

Code	Nr. poles	Cable [m]			€
Y27 000 001	3	1	1	10	-

Y27.2

Actuator cable for 3-way zone diverting valves and 2-way zone valves with plug connector - 4 poles

Max working temperature: ***105 °C***
Pole cross-section: ***4 x 0,75 mm2***
Max electrical resistance (20 °C): ***26 Ω/km***

Code	Nr. poles	Cable [m]			€
Y27 000 002	4	1	1	10	-

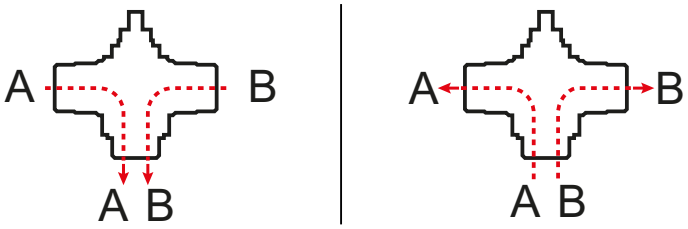
Y27.K

Thermal decoupler between actuator and valve body for 3-way zone diverting valves. For chilled water applications. Rapid assembling on the valve.

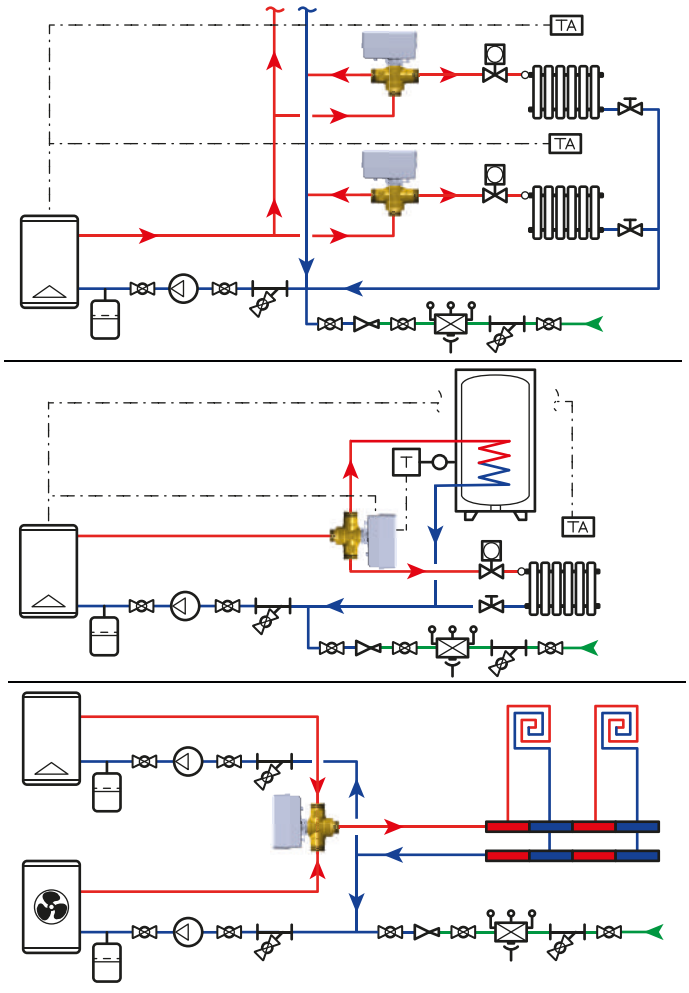
Working temperature range: ***5–90 °C***

Code				€
Y27 000 000 K ONR	1	-	-	-

Use of ports for the 3-way valve



Y58.1, Y73.1, Y28.1: zone valve - priority between heating and DHW production - two generator coupling



Y67.1

2-way zone valve - 2 point actuator with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Max differential pressure: ***1 bar***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Rotation angle: ***90°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
Y67 020 000 MR1 TBS	G 3/4 M	12	230	12	3	1	1	6	-
Y67 025 000 MR1 TBS	G 1 M	12	230	12	3	1	1	6	-
Y67 022 000 MR1	22 mm	12	230	12	3	1	1	6	-
Y67 028 000 MR1	28 mm	12	230	12	3	1	1	6	-

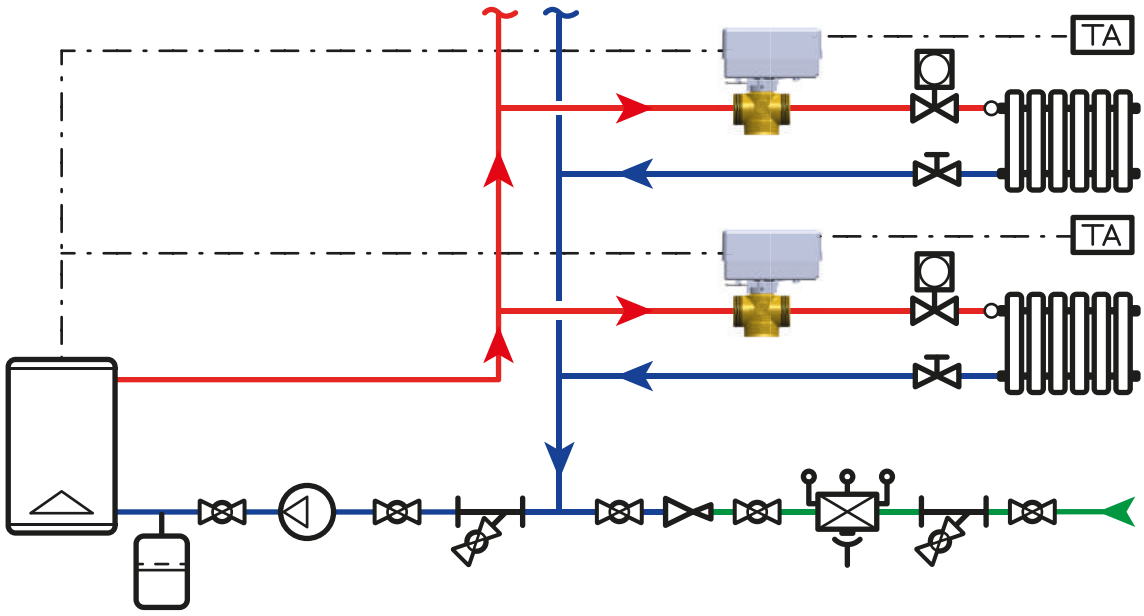
Y67.C1

Compact 2-way zone valve - 2 point actuator with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Max differential pressure: ***1 bar***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***
Rotation angle: ***90°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	Size	Kv	V	Running time [s]	Nr. poles	Cable [m]			€
Y67 025 00C MR1	G 1 M	12	230	12	3	1	1	6	-
Y67 032 00C MR1	G 1 1/4 M	12	230	12	3	1	1	6	-

Use of Y67.1 and Y67.C1 as zone valves



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

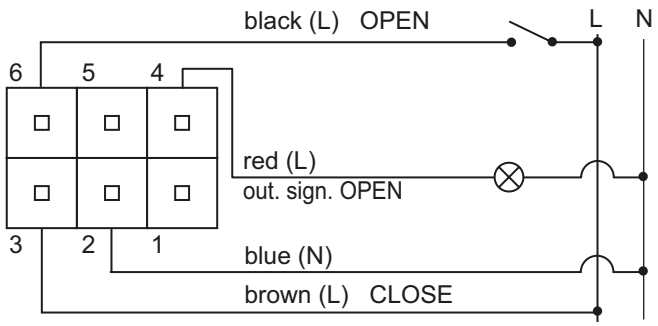
Y27.901

Actuator for 2-way zone valves. 2 points with rapid assembling on the valve, plug connector, output potential contact (can be used with optional 4 pole cable), with 3 pole 1 m cable

Rotation angle: ***90°***
Protection class: ***IP 40***
Frequency: ***50 Hz***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
Y27 230 R90 1	230	12	3	1	1	10	-

Wiring diagram Y27.901



Y27.1

Actuator cable for 3-way zone diverting valves and 2-way zone valves with plug connector - 3 poles

Max working temperature: ***105 °C***
Pole cross-section: ***3 x 0,75 mm2***
Max electrical resistance (20 °C): ***26 Ω/km***

Code	Nr. poles	Cable [m]			€
Y27 000 001	3	1	1	10	-

Y27.2

Actuator cable for 3-way zone diverting valves and 2-way zone valves with plug connector - 4 poles

Max working temperature: ***105 °C***
Pole cross-section: ***4 x 0,75 mm2***
Max electrical resistance (20 °C): ***26 Ω/km***

Code	Nr. poles	Cable [m]			€
Y27 000 002	4	1	1	10	-

P93

Fitting with running nut and flat gasket

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 000	G 1/2 M - G 3/4 RN	20	80	-
P93 020 000	G 3/4 M - G 1 RN	16	64	-
P93 025 000	G 1 M - G 1 1/4 RN	8	64	-
P93 032 000	G 1 1/4 M - G 1 1/2 RN	4	32	-

P94

2-way ball zone valve MF fitted for M02 actuator - chrome plated

Max differential pressure: ***16 bar***
Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P94 015 C00 ONR	G 3/4 M - G 1/2 F - DN 15	10	40	-
P94 020 C00 ONR	G 1 M - G 3/4 F - DN 20	5	40	-
P94 025 C00 ONR	G 1 1/4 M - G 1 F - DN 25	5	30	-
P94 032 C00 ONR	G 1 1/2 M - G 1 1/4 F - DN 32	5	10	-

P95

2-way ball zone valve MM fitted for M02 actuator - chrome plated

Max differential pressure: ***16 bar***
Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P95 015 C00 ONR	G 3/4 M - G 1/2 M	10	40	-
P95 020 C00 ONR	G 1 M - G 3/4 M	5	40	-
P95 025 C00 ONR	G 1 1/4 M - G 1 M	5	30	-
P95 032 C00 ONR	G 1 1/2 M - G 1 1/4 M	5	10	-

P94.L1

2-way ball zone valve MF fitted for M02 actuator - chrome plated - with fitting (tailpiece and nut)

Max differential pressure: ***16 bar***
Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P94 015 C00 L1 TBS	G 1/2 M - G 1/2 F - DN 15	10	40	-
P94 020 C00 L1 TBS	G 3/4 M - G 3/4 F - DN 20	5	40	-
P94 025 C00 L1 TBS	G 1 M - G 1 F - DN 25	5	30	-
P94 032 C00 L1 TBS	G 1 1/4 M - G 1 1/4 F - DN 32	5	10	-

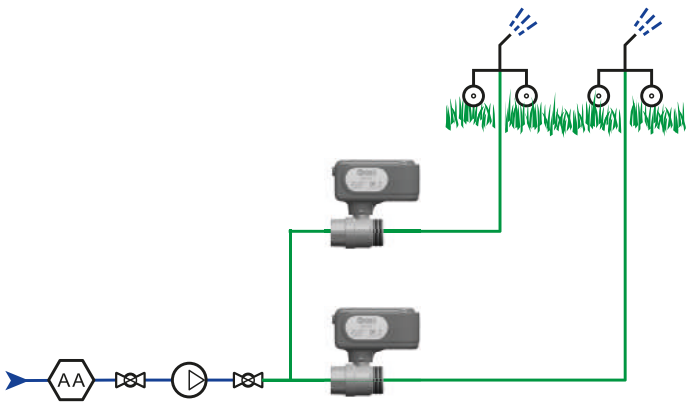
P95.L2

2-way ball zone valve MM fitted for M02 actuator - chrome plated

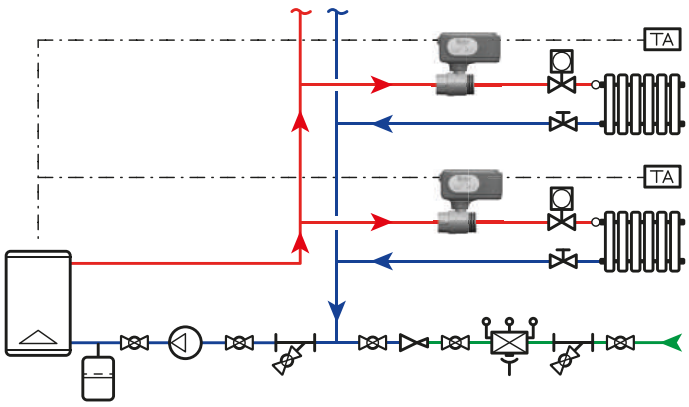
Max differential pressure: ***16 bar***
Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P95 015 C00 L2 ONR	G 1/2 M - G 1/2 M	10	40	-
P95 020 C00 L2 ONR	G 3/4 M - G 3/4 M	5	40	-
P95 025 C00 L2 ONR	G 1 M - G 1 M	5	30	-
P95 032 C00 L2 ONR	G 1 1/4 M - G 1 1/4 M	5	10	-

Use of P94 and P95 as shut-off valves in irrigation systems



Use of P94 and P95 as zone valves



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

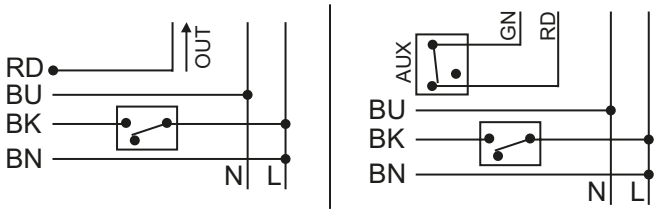
M02

Actuator for 2-way ball zone valves. 2 points, on/off regulation. Rotation angle 90°. Output potential contact (4 pole version) or auxiliary microswitch (5 pole version). Complete with blocking screw, 1 m integrated cable

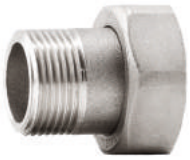
Torque: ***10 N·m***
Protection class: ***IP 44***
Frequency: ***50 Hz***

Code	V	Running time [s]	Nr. poles	Cable [m]			€
M02 010 1BC A	230	40	4	0,84	1	10	-
M02 010 2BC A	24	40	4	0,84	1	10	-
M02 010 1CC A TBS	230	40	5	0,79	1	10	-
M02 010 2CC A	24	40	5	0,79	1	10	-

Wiring diagram M02, 2 points-4 poles and 2 points-5 poles with aux. microswitch



P93.N



Fitting with running nut and flat gasket - nickel plated

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 N00	G 1/2 M - G 3/4 RN	20	80	-
P93 020 N00	G 3/4 M - G 1 RN	16	64	-
P93 025 N00	G 1 M - G 1 1/4 RN	8	64	-
P93 032 N00	G 1 1/4 M - G 1 1/2 RN	4	32	-

AIR VENTS AND DEAERATORS

B6

Y47L

Automatic air vent. With manual pin for functionality check.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
Y47 010 000 L	G 3/8 M	10	100	-
Y47 015 000 L	G 1/2 M	10	100	-
Y47 020 000 L	G 3/4 M	10	100	-
Y47 025 000 L	G 1 M	10	100	-

Y47

Automatic air vent (compact version)

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
Y47 010 000 TBS	G 3/8 M	10	100	-
Y47 015 000 TBS	G 1/2 M	10	100	-

Y47.N

Automatic air vent (compact version) - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
Y47 015 N00	G 1/2 M	10	100	-

Y70

Automatic shut-off valve for air vent replacement

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
Y70 010 000	G 3/8 M - G 3/8 F	20	400	-
Y70 015 000	G 1/2 M - G 1/2 F	20	400	-

P57L

Automatic air vent with side connection. With manual pin for functionality check.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P57 010 000 L	G 3/8 M	10	100	-
P57 015 000 L	G 1/2 M	10	100	-

P57

Automatic air vent with side connection (compact version)

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P57 010 000	G 3/8 M	10	100	-
P57 015 000	G 1/2 M	10	100	-

P56

Automatic air vent with side vent

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P56 010 000	G 3/8 M	10	100	-
P56 015 000	G 1/2 M	10	100	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

P58

Automatic air vent for heating emitters and radiators - nickel plated. With manual pin for functionality check.

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P58 025 N00 D	G 1 M - right	10	100	-
P58 025 N00 S	G 1 M - left	10	100	-

P83

Manual air vent with adjustable drain position - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***

Code	Size			€
P83 015 N00	G 1/2 M	2	-	-

05B

Manual air vent with PTFE seal - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***
Fully open length: ***32 mm***
Fully closed length: ***28 mm***

Code	Size			€
05B 008 N03	G 1/4 M	10	200	-
05B 010 N03	G 3/8 M	10	200	-

P60

Manual air vent with PTFE seal - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***
Fully open length: ***28 mm***
Fully closed length: ***25 mm***

Code	Size			€
P60 008 N00 TBS	G 1/4 M	10	200	-
P60 010 N00 TBS	G 3/8 M	10	200	-
P60 015 N00 TBS	G 1/2 M	10	200	-

P71

Vertical manual deaerator

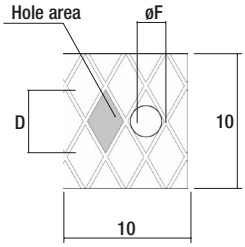
Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
P71 020 000	G 1 M - G 3/4 F	1	28	-
P71 020 000 M	G 1 M - G 3/4 M	1	28	-
P71 022 000	G 1 M - 22 mm	1	28	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

Code	Size	Plastic obturator	Metal obturator	NBR gasket	VITON gasket	Reinforced body
005	G 1/4–G 4	⬡		⬡		
020	G 3/8–G 2	⬡		⬡		⬡
006	G 3/8–G 2	⬡		⬡		
007	G 3/8–G 2	⬡		⬡		
008	G 3/8–G 2	⬡		⬡		
005K	G 1/4–G 4		⬡	⬡		
020K	G 3/8–G 2		⬡	⬡		⬡
005KV	G 1/4–G 4		⬡		⬡	
020KV	G 3/8–G 2		⬡		⬡	⬡
006KV	G 3/8–G 2		⬡		⬡	
007KV	G 3/8–G 2		⬡		⬡	
008KV	G 3/8–G 2		⬡		⬡	

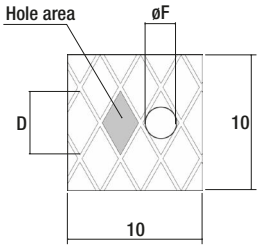
Mesh TYPE A



nr. holes/cm²	24
Hole area	1,1 mm²
D	2,6 mm
øF	0,85 mm (850 µm)
Size	G 3/8–G 4

Regarding the values of Hole area, D and øF, consider a tolerance of about ±15%.

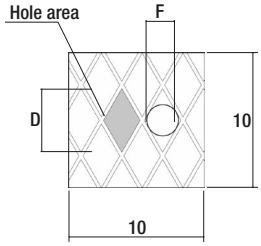
Mesh TYPE B



nr. holes/cm²	22
Hole area	1,3 mm²
D	2,6 mm
øF	0,95 (950 µm)
Size	G 3/8–G 4

Regarding the values of Hole area, D and øF, consider a tolerance of about ±15%

Mesh TYPE C



nr. holes/cm²	23	11
Hole area	1,6 mm²	3,4 mm²
D	2,6 mm	4 mm
F	1,1 mm (1100 µm)	1,6 mm (1600 µm)
Size	G 3/8–G 2	G 2 1/2–G 3

Regarding the values of Hole area, D and F, consider a tolerance of about ±15%

CHECK VALVES AND FOOT VALVES

B7

005

Universal check valve - FF - acetal copolymer obturator - NBR gasket

Max working temperature: ***95 °C***
ACS certification on request
Galvanic treatment on request
In compliance with D.M. 174

Code	Size	P [bar]			€
005 008 000	G 1/4 F	16	30	240	-
005 010 000	G 3/8 F	16	30	240	-
005 015 000 TBS	G 1/2 F	16	30	240	-
005 020 000 TBS	G 3/4 F	16	18	144	-
005 025 000 TBS	G 1 F	16	14	84	-
005 032 000 TBS	G 1 1/4 F	10	12	72	-
005 040 000 TBS	G 1 1/2 F	10	10	40	-
005 050 000 TBS	G 2 F	10	6	36	-
005 065 000	G 2 1/2 F	8	-	15	-
005 080 000	G 3 F	8	-	12	-
005 100 000	G 4 F	8	-	5	-

005K

Universal check valve - FF - brass obturator - NBR gasket

Max working temperature: ***95 °C***
ACS certification on request

Code	Size	P [bar]			€
005 008 000 K ONR	G 1/4 F	35	30	240	-
005 010 000 K	G 3/8 F	35	30	240	-
005 015 000 K	G 1/2 F	35	30	240	-
005 020 000 K	G 3/4 F	35	18	144	-
005 025 000 K	G 1 F	35	14	84	-
005 032 000 K	G 1 1/4 F	25	12	72	-
005 040 000 K	G 1 1/2 F	25	10	40	-
005 050 000 K	G 2 F	25	6	36	-
005 065 000 K	G 2 1/2 F	12	-	15	-
005 080 000 K	G 3 F	12	-	12	-
005 100 000 K	G 4 F	12	-	5	-

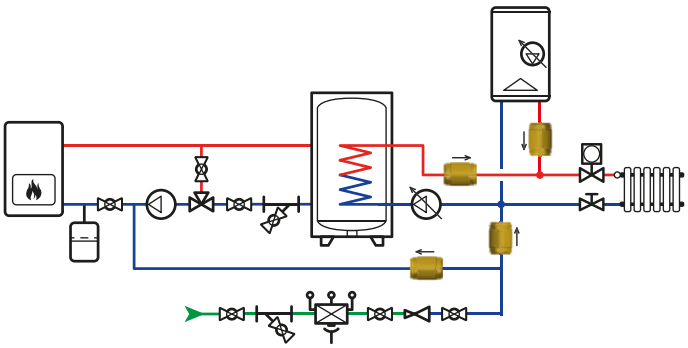
005KV

Universal check valve - FF - brass obturator - viton gasket

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
005 008 000 KV	G 1/4 F	35	30	240	-
005 010 000 KV	G 3/8 F	35	30	240	-
005 015 000 KV	G 1/2 F	35	30	240	-
005 020 000 KV	G 3/4 F	35	18	144	-
005 025 000 KV	G 1 F	35	14	84	-
005 032 000 KV	G 1 1/4 F	25	12	72	-
005 040 000 KV	G 1 1/2 F	25	10	40	-
005 050 000 KV	G 2 F	25	6	36	-
005 065 000 KV ONR	G 2 1/2 F	12	-	15	-
005 080 000 KV ONR	G 3 F	12	-	12	-
005 100 000 KV ONR	G 4 F	12	-	5	-

Use of check valves in closed circuits



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

020

Universal check valve - FF - acetal copolymer obturator - NBR gasket - suitable for high pressure application

Max working temperature: ***95 °C***
ACS certification on request
Galvanic treatment on request
In compliance with D.M. 174

Code	Size	P [bar]			€
020 010 000	G 3/8 F	25	24	192	-
020 015 000	G 1/2 F	25	20	160	-
020 020 000	G 3/4 F	25	12	96	-
020 025 000	G 1 F	25	8	64	-
020 032 000	G 1 1/4 F	18	8	48	-
020 040 000	G 1 1/2 F	18	6	36	-
020 050 000	G 2 F	18	5	20	-
005 065 000	G 2 1/2 F	8	-	15	-
005 080 000	G 3 F	8	-	12	-
005 100 000	G 4 F	8	-	5	-

020K

Universal check valve - FF - brass obturator - NBR gasket - suitable for high pressure application

Max working temperature: ***95 °C***
ACS certification on request

Code	Size	P [bar]			€
020 010 000 K	G 3/8 F	50	24	192	-
020 015 000 K TBS	G 1/2 F	50	20	160	-
020 020 000 K TBS	G 3/4 F	50	12	96	-
020 025 000 K TBS	G 1 F	50	8	64	-
020 032 000 K TBS	G 1 1/4 F	35	8	48	-
020 040 000 K TBS	G 1 1/2 F	35	6	36	-
020 050 000 K TBS	G 2 F	35	5	20	-
005 065 000 K	G 2 1/2 F	12	-	15	-
005 080 000 K	G 3 F	12	-	12	-
005 100 000 K	G 4 F	12	-	5	-

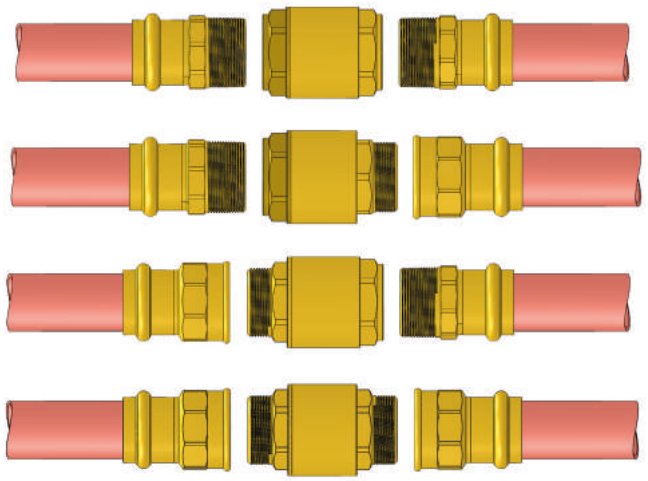
020KV

Universal check valve - FF - brass obturator - viton gasket - suitable for high pressure application

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
020 010 000 KV	G 3/8 F	50	24	192	-
020 015 000 KV	G 1/2 F	50	20	160	-
020 020 000 KV	G 3/4 F	50	12	96	-
020 025 000 KV	G 1 F	50	8	64	-
020 032 000 KV	G 1 1/4 F	35	8	48	-
020 040 000 KV	G 1 1/2 F	35	6	36	-
020 050 000 KV	G 2 F	35	5	20	-
005 065 000 KV ONR	G 2 1/2 F	12	-	15	-
005 080 000 KV ONR	G 3 F	12	-	12	-
005 100 000 KV ONR	G 4 F	12	-	5	-

Example of check valve installation: 005/020, 006, 007, 008



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

006

Universal check valve - FM - acetal copolymer obturator - NBR gasket

Max working temperature: ***95 °C***
ACS certification on request
Galvanic treatment on request
In compliance with D.M. 174

Code	Size	P [bar]			€
006 010 000	G 3/8 F - G 3/8 M	16	30	240	-
006 015 000	G 1/2 F - G 1/2 M	16	25	200	-
006 020 000	G 3/4 F - G 3/4 M	16	16	128	-
006 025 000	G 1 F - G 1 M	16	10	80	-
006 032 000	G 1 1/4 F - G 1 1/4 M	10	6	48	-
006 040 000 ONR	G 1 1/2 F - G 1 1/2 M	10	8	32	-
006 050 000 ONR	G 2 F - G 2 M	10	6	24	-

007

Universal check valve - MF - acetal copolymer obturator - NBR gasket

Max working temperature: ***95 °C***
ACS certification on request
Galvanic treatment on request
In compliance with D.M. 174

Code	Size	P [bar]			€
007 010 000	G 3/8 M - G 3/8 F	16	30	240	-
007 015 000	G 1/2 M - G 1/2 F	16	20	160	-
007 020 000	G 3/4 M - G 3/4 F	16	16	128	-
007 025 000	G 1 M - G 1 F	16	10	80	-
007 032 000	G 1 1/4 M - G 1 1/4 F	10	6	48	-
007 040 000 ONR	G 1 1/2 M - G 1 1/2 F	10	8	32	-
007 050 000 ONR	G 2 M - G 2 F	10	6	24	-

006KV

Universal check valve - FM - brass obturator - viton gasket

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
006 010 000 KV	G 3/8 F - G 3/8 M	35	30	240	-
006 015 000 KV	G 1/2 F - G 1/2 M	35	25	200	-
006 020 000 KV	G 3/4 F - G 3/4 M	35	16	128	-
006 025 000 KV	G 1 F - G 1 M	35	10	80	-
006 032 000 KV	G 1 1/4 F - G 1 1/4 M	25	6	48	-
006 040 000 KV ONR	G 1 1/2 F - G 1 1/2 M	25	8	32	-
006 050 000 KV ONR	G 2 F - G 2 M	25	6	24	-

007KV

Universal check valve - MF - brass obturator - viton gasket

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
007 010 000 KV	G 3/8 M - G 3/8 F	35	30	240	-
007 015 000 KV	G 1/2 M - G 1/2 F	35	20	160	-
007 020 000 KV	G 3/4 M - G 3/4 F	35	16	128	-
007 025 000 KV	G 1 M - G 1 F	35	10	80	-
007 032 000 KV	G 1 1/4 M - G 1 1/4 F	25	6	48	-
007 040 000 KV ONR	G 1 1/2 M - G 1 1/2 F	25	8	32	-
007 050 000 KV ONR	G 2 M - G 2 F	25	6	24	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

008

Universal check valve - MM - acetal copolymer obturator - NBR gasket

Max working temperature: ***95 °C***
ACS certification on request
Galvanic treatment on request
In compliance with D.M. 174

Code	Size	P [bar]			€
008 010 000	G 3/8 M	16	30	240	-
008 015 000	G 1/2 M	16	20	160	-
008 020 000	G 3/4 M	16	16	128	-
008 025 000	G 1 M	16	10	80	-
008 032 000	G 1 1/4 M	10	6	48	-
008 040 000 ONR	G 1 1/2 M	10	8	32	-
008 050 000 ONR	G 2 M	10	6	24	-

008KV

Universal check valve - MM - brass obturator - viton gasket

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
008 010 000 KV	G 3/8 M	35	30	240	-
008 015 000 KV TBS	G 1/2 M	35	20	160	-
008 020 000 KV TBS	G 3/4 M	35	16	128	-
008 025 000 KV TBS	G 1 M	35	10	80	-
008 032 000 KV TBS	G 1 1/4 M	25	6	48	-
008 040 000 KV ONR	G 1 1/2 M	25	8	32	-
008 050 000 KV ONR	G 2 M	25	6	24	-

135

Flanged check valve PN 16

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Material: ***cast iron EN GJL 250***

Code	Size		€
135 050 000	DN 50	2	-
135 065 000	DN 65	2	-
135 080 000	DN 80	1	-
135 100 000	DN 100	1	-
135 125 000	DN 125	1	-
135 150 000	DN 150	1	-

010

Foot valve with integrated stainless steel filter

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
010 015 000 TBS	G 1/2 F	A	10	15	180	-
010 020 000 TBS	G 3/4 F	A	10	28	168	-
010 025 000 TBS	G 1 F	A	10	16	96	-
010 032 000 TBS	G 1 1/4 F	A	8	7	42	-
010 040 000 TBS	G 1 1/2 F	A	8	6	36	-
010 050 000 TBS	G 2 F	A	8	3	18	-
010 065 000	G 2 1/2 F	A	6	-	10	-
010 080 000	G 3 F	A	6	-	6	-
010 100 000	G 4 F	A	6	-	4	-

029

Stainless steel filter with nylon connection

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
029 010 000	G 3/8 M	B	50	400	-
029 015 000 TBS	G 1/2 M	B	35	280	-
029 020 000 TBS	G 3/4 M	B	20	160	-
029 025 000 TBS	G 1 M	B	25	100	-
029 032 000 TBS	G 1 1/4 M	B	20	80	-
029 040 000 TBS	G 1 1/2 M	B	10	40	-
029 050 000 TBS	G 2 M	B	6	24	-
029 065 000	G 2 1/2 M	B	-	20	-
029 080 000	G 3 M	B	-	10	-
029 100 000	G 4 M	B	-	6	-

014

Foot valve with interchangeable stainless steel filter - nylon filter connection (code 005 + code 029)

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
014 010 000	G 3/8 F	B	16	25	300	-
014 015 000	G 1/2 F	B	16	20	240	-
014 020 000	G 3/4 F	B	16	15	135	-
014 025 000	G 1 F	B	16	14	84	-
014 032 000	G 1 1/4 F	B	10	7	42	-
014 040 000	G 1 1/2 F	B	10	5	30	-
014 050 000	G 2 F	B	10	3	18	-
014 065 000	G 2 1/2 F	B	8	-	9	-
014 080 000	G 3 F	B	8	-	6	-
014 100 000	G 4 F	B	8	-	4	-

015

Foot valve with interchangeable stainless steel filter - brass filter connection (code 005 + code 030)

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
015 010 000	G 3/8 F	A	16	25	200	-
015 015 000	G 1/2 F	A	16	20	160	-
015 020 000	G 3/4 F	A	16	15	135	-
015 025 000	G 1 F	A	16	14	84	-
015 032 000	G 1 1/4 F	A	10	6	36	-
015 040 000	G 1 1/2 F	A	10	5	30	-
015 050 000	G 2 F	A	10	3	18	-
015 065 000	G 2 1/2 F	A	8	-	9	-
015 080 000	G 3 F	A	8	-	6	-
015 100 000	G 4 F	A	8	-	4	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

024

Foot valve for high pressure with interchangeable stainless steel filter - nylon filter connection (code 020 + code 029)

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
024 010 000	G 3/8 F	B	25	15	120	-
024 015 000	G 1/2 F	B	25	15	120	-
024 020 000	G 3/4 F	B	25	14	84	-
024 025 000	G 1 F	B	25	6	54	-
024 032 000	G 1 1/4 F	B	18	5	30	-
024 040 000	G 1 1/2 F	B	18	4	24	-
024 050 000	G 2 F	B	18	3	18	-

V39

Foot valve for high pressure with brass obturator, interchangeable stainless steel filter - nylon filter connection (code 020K + code 029)

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
V39 010 000	G 3/8 F	B	50	24	192	-
V39 015 000	G 1/2 F	B	50	12	144	-
V39 020 000	G 3/4 F	B	50	14	84	-
V39 025 000	G 1 F	B	50	8	48	-
V39 032 000	G 1 1/4 F	B	35	5	30	-
V39 040 000	G 1 1/2 F	B	35	4	24	-
V39 050 000	G 2 F	B	35	3	12	-

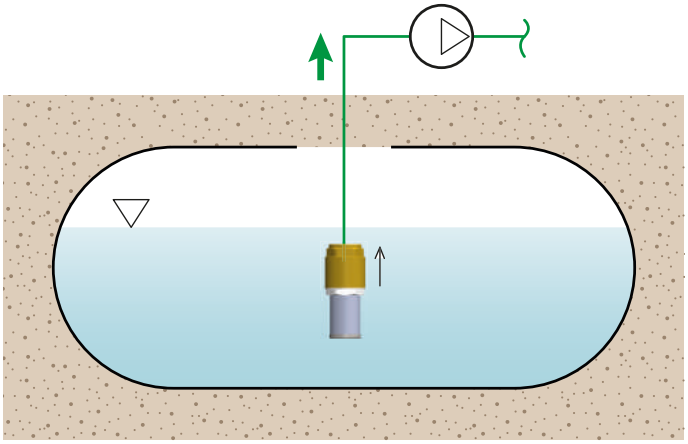
025

Foot valve for high pressure with interchangeable stainless steel filter - brass filter connection (code 020 + code 030)

Max working temperature: ***95 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type	P [bar]			€
025 010 000	G 3/8 F	A	25	24	192	-
025 015 000	G 1/2 F	A	25	12	144	-
025 020 000	G 3/4 F	A	25	14	84	-
025 025 000	G 1 F	A	25	8	48	-
025 032 000	G 1 1/4 F	A	18	5	30	-
025 040 000	G 1 1/2 F	A	18	4	24	-
025 050 000	G 2 F	A	18	3	12	-

Use of foot valves



045

Tubular foot valve

Max working temperature: ***90 °C***

Code	Size	P [bar]			€
045 020 000	G 3/4 F	10	12	96	-
045 025 000	G 1 F	10	12	72	-
045 032 000	G 1 1/4 F	8	6	36	-
045 040 000	G 1 1/2 F	8	5	30	-
045 050 000	G 2 F	8	4	24	-
045 065 000	G 2 1/2 F	8	-	12	-
045 080 000	G 3 F	6	-	5	-
045 100 000	G 4 F	6	-	3	-

153

Foot valve for viscous fluids - metal seal with double ball

Max working temperature: ***100 °C***
Max working pressure: ***6 bar***

Code	Size			€
153 010 000	G 3/8 F	35	280	-
153 015 000	G 1/2 F	25	200	-

040

Foot valve with brass filter with horizontal edges (6" version with vertical edges)

Max working temperature: ***95 °C***
Code 042150000 with vertical edges

Code	Size	P [bar]			€
040 020 000	G 3/4 F	10	12	96	-
040 025 000	G 1 F	10	12	72	-
040 032 000	G 1 1/4 F	8	5	45	-
040 040 000	G 1 1/2 F	8	6	36	-
040 050 000	G 2 F	8	4	24	-
040 065 000	G 2 1/2 F	6	-	12	-
040 080 000	G 3 F	6	-	10	-
040 100 000	G 4 F	6	-	5	-
042 150 000 ONR	G 6 F	6	-	1	-

030

Stainless steel filter with brass connection

Max working temperature: ***140 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
030 010 000	G 3/8 M	A	50	400	-
030 015 000	G 1/2 M	A	35	280	-
030 020 000	G 3/4 M	A	20	160	-
030 025 000	G 1 M	A	25	100	-
030 032 000	G 1 1/4 M	A	20	80	-
030 040 000	G 1 1/2 M	A	10	40	-
030 050 000	G 2 M	A	6	24	-
030 065 000	G 2 1/2 M	A	-	20	-
030 080 000	G 3 M	A	-	10	-
030 100 000	G 4 M	A	-	6	-

028

Stainless steel filter with stainless steel connection

Max working temperature: ***140 °C***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
028 010 000	G 3/8 M	C	50	400	-
028 015 000	G 1/2 M	C	35	280	-
028 020 000	G 3/4 M	C	20	160	-
028 025 000	G 1 M	C	12	96	-
028 032 000	G 1 1/4 M	C	9	72	-
028 040 000	G 1 1/2 M	C	10	40	-
028 050 000	G 2 M	C	6	24	-
028 065 000	G 2 1/2 M	C	4	16	-
028 080 000	G 3 M	C	-	11	-
028 100 000	G 4 M	C	-	6	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

060

Swing check valve FF - rubber seal

Max working temperature: ***95 °C***
Sizes 5" and 6" in bronze

Code	Size	P [bar]			€
060 010 000	G 3/8 F	16	15	120	-
060 015 000 TBS	G 1/2 F	16	20	160	-
060 020 000 TBS	G 3/4 F	16	10	120	-
060 025 000 TBS	G 1 F	16	10	60	-
060 032 000 TBS	G 1 1/4 F	16	10	40	-
060 040 000 TBS	G 1 1/2 F	16	6	36	-
060 050 000 TBS	G 2 F	16	4	24	-
060 065 000	G 2 1/2 F	16	-	12	-
060 080 000	G 3 F	16	-	10	-
060 100 000	G 4 F	10	-	4	-
060 125 000	G 5 F	10	-	2	-
060 150 000	G 6 F	10	-	1	-

080

Swing check valve FF - metal seal

Max working temperature: ***95 °C***
Sizes 5" and 6" in bronze

Code	Size	P [bar]			€
080 010 000	G 3/8 F	16	15	120	-
080 015 000	G 1/2 F	16	20	160	-
080 020 000	G 3/4 F	16	10	120	-
080 025 000	G 1 F	16	10	60	-
080 032 000	G 1 1/4 F	16	10	40	-
080 040 000	G 1 1/2 F	16	6	36	-
080 050 000	G 2 F	16	4	24	-
080 065 000	G 2 1/2 F	16	-	12	-
080 080 000	G 3 F	16	-	10	-
080 100 000	G 4 F	10	-	4	-
080 125 000	G 5 F	10	-	2	-
080 150 000	G 6 F	10	-	1	-

125

Wafer inter-flanged swing check valve PN 16

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Material: ***ASTM A351 gr CF8M***

Code	Size		€
125 050 000	DN 50	1	-
125 065 000	DN 65	1	-
125 080 000	DN 80	1	-
125 100 000	DN 100	1	-
125 125 000	DN 125	1	-
125 150 000	DN 150	1	-
125 200 000	DN 200	1	-
125 250 000	DN 250	1	-

130

Y check valve with metal obturator - viton seal

Max working temperature: ***150 °C***

Code	Size	P [bar]			€
130 010 000 ONR	G 3/8 F	35	25	200	-
130 015 000	G 1/2 F	35	20	160	-
130 020 000	G 3/4 F	35	14	84	-
130 025 000	G 1 F	35	10	60	-
130 032 000	G 1 1/4 F	25	5	30	-
130 040 000 ONR	G 1 1/2 F	25	4	24	-
130 050 000 ONR	G 2 F	25	2	12	-

Y77

Compact check valve with running nut - flat gasket

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y77 A20 000	G 3/4 RN - G 3/4 M	20	80	-
Y77 A25 000	G 1 RN - G 1 M	20	80	-

Y77.N

Compact check valve with running nut - flat gasket - nickel-plated

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y77 A20 N00	G 3/4 RN - G 3/4 M	20	80	-
Y77 A25 N00	G 1 RN - G 1 M	20	80	-

Y44

Compact check valve with running nut, compression end - filter - flat gasket - nickel-plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y44 A15 N00 ONR	15 mm - G 3/4 RN	-	100	-

P34

Compact check valve - MF

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P34 015 000 TBS	G 1/2 M - G 1/2 F	50	400	-
P34 020 000 TBS	G 3/4 M - G 3/4 F	40	160	-
P34 025 000	G 1 M - G 1 F	15	120	-

P33

Compact check valve - FM

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P33 015 000 TBS	G 1/2 F - G 1/2 M	50	400	-
P33 020 000 TBS	G 3/4 F - G 3/4 M	40	160	-
P33 025 000	G 1 F - G 1 M	15	120	-

179

Compact check valve - MF - with knurling - chrome plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
179 015 C00	G 1/2 M - G 1/2 F	-	300	-

178

Compact check valve - FM - with knurling - chrome plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
178 015 C00	G 1/2 F - G 1/2 M	-	300	-
178 020 C00	G 3/4 F - G 3/4 M	-	200	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

036

Check valve with pump connection and side connection - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
036 025 N00	G 1 1/4 RN - G 1 M - G 1/2 F	-	60	-
036 032 N00 W	G 1 1/2 RN - R 1 1/4 - G 1/2 F	-	40	-
036 040 N00 W	G 2 RN - R 1 1/2 - G 1/2 F	-	30	-

032-032.I

Check valve with downstream drain and compression ends - ENGLISH version, IRISH version (I)

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
032 015 000 ONR	15 mm - 15,2	-	100	-
032 022 000 ONR	22 mm - 22,2	-	50	-
032 028 000 ONR	28 mm - 28,3	-	40	-
032 015 000 I ONR	15 mm - 14,9	-	100	-
032 022 000 I ONR	22 mm - 21,2	-	50	-
032 028 000 I ONR	28 mm - 27,6	-	40	-

192

Check valve with pump connection and check valve override device

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
192 020 000	G 1 1/2 RN - G 3/4 M	-	80	-
192 020 000 W	G 1 1/2 RN - R 3/4	-	80	-
192 025 000	G 1 1/2 RN - G 1 M	-	80	-
192 025 000 W	G 1 1/2 RN - R 1	-	80	-

172

Double check valve with intermediate pressure test port connection and two compression ends - DZR brass

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
WRAS certification

Code	Size			€
172 015 000	15 mm	-	150	-
172 022 000	22 mm	-	100	-

173

Double check valve with intermediate pressure test port connection and one compression end - DZR brass - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
WRAS certification

Code	Size			€
173 015 N00	15 mm	25	200	-

035

Angled check valve. Convertible into straight valve by moving the plug.

Max working temperature: ***60 °C***
Max working pressure: ***16 bar***

Code	Size			€
035 025 000	G 1 F	10	40	-
035 032 000	G 1 1/4 F	5	20	-
035 040 000	G 1 1/2 F	2	24	-
035 050 000 ONR	G 2 F	2	12	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

055

"PARIS" check valve FM with double pressure test port connection and running nut - controllable

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
055 015 000	G 3/4 RN - G 3/4 M	-	100	-

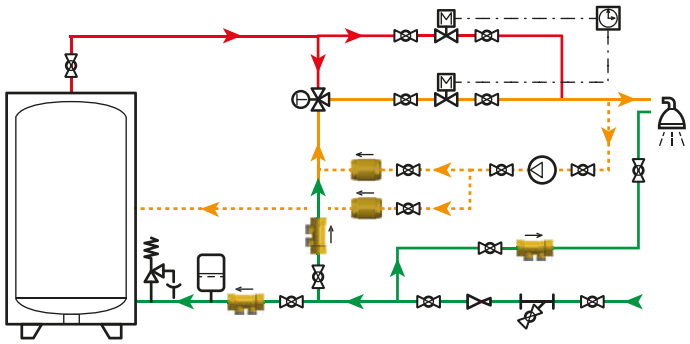
195

"STAR" check valve FF with double pressure test port connection - controllable

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
195 015 000 ONR	G 1/2 F	-	150	-
195 020 000	G 3/4 F	-	120	-
195 025 000	G 1 F	-	70	-

Difference of use and application point: 055 or 195 at the potable water system inlet, 005 on the recirculation circuit



191

Check valve with running nut and check valve override device

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
191 020 000	G 1 RN - G 3/4 M	10	40	-
191 020 000 W ONR	G 1 RN - R 3/4	10	40	-
191 025 000	G 1 RN - G 1 M	10	40	-
191 025 000 W ONR	G 1 RN - R 1	10	40	-

191.2

Check valve with running nut and check valve override device - check valve insert

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
191 025 000 2	G 1 RN - G 1 M	10	40	-
191 025 000 W2	G 1 RN - R 1	10	40	-

191KV

Check valve with running nut and check valve override device - metal obturator - viton seal

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

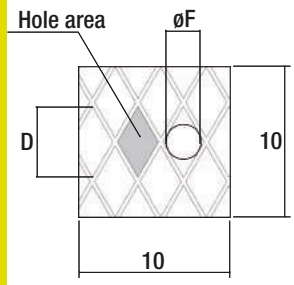
Code	Size			€
191 020 000 KV	G 1 RN - G 3/4 M	10	40	-
191 025 000 KV	G 1 RN - G 1 M	10	40	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

IMPURITY COLLECTING FILTERS

B8

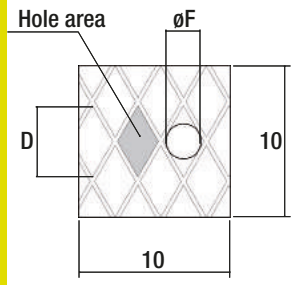
Type A: STANDARD CARTIDGES



		ON REQUEST	
nr. holes/cm²	70	270	24
Hole area	0,25 mm²	0,025 mm²	1,0 mm²
D	1,0 mm	0,5 mm	2,0 mm
øF	0,50 mm (500 µm)	0,3 mm (300 µm)	1,0 mm (1000 µm)
Size	G 1/2-G 4	G 1/2, G 3/4, G 1, G 1 1/2	G 1/2-G 2

Regarding the values of Hole area, D and øF, consider a tolerance of about ±15%

Type B: STANDARD CARTIDGES



nr. holes/cm²	65	70	50
Hole area	0,18 mm²	0,25 mm²	0,64 mm²
D	1,0 mm	1,0 mm	1,0 mm
øF	0,40 mm (400 µm)	0,50 mm (500 µm)	0,80 mm (800 µm)
Size	G 1/2-G 1	G 1 1/4-G 2	G 2 1/2-G 4

Regarding the values of Hole area, D and øF, consider a tolerance of about ±15%

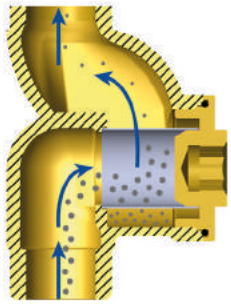
V70

DZR brass compact T-filter - MM - stainless steel filtering cartridge

Max working temperature: ***95 °C***
Max working pressure: ***25 bar***
Mesh type: ***see chapter beginning***

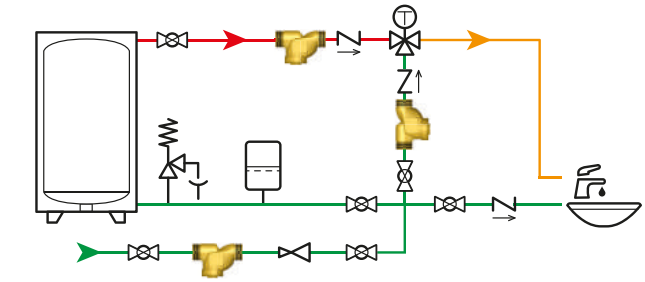
Code	Size	Mesh type	📦	📦	DN	€
V70 A20 000	G 3/4 M	A	20	40	20	-

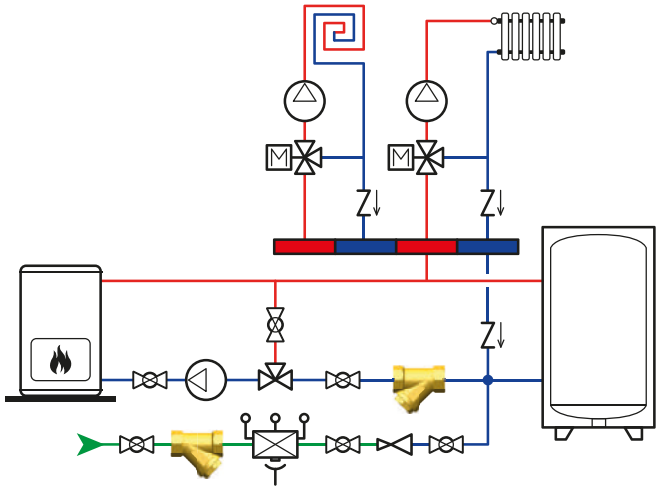
Operating principle of V70 filter in vertical



Advantages of V70 filter:
- T-shape compact body
- suitable also for vertical pipe, preferably with upward flow direction: the body T-shape makes the particles accumulate between the mesh and the body itself, limiting their backflow.

Use of V70 filter in DHW system - Use of filters in closed circuits





050

Brass Y-filter (3" and 4" versions in bronze) - FF - stainless steel filtering cartridge

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Mesh type: ***see chapter beginning***
For sizes 3" and 4" see code 049

Code	Size	Kv	Mesh type	📦	📦	€
050 008 000	G 1/4 F	1,6	A	20	80	-
050 010 000	G 3/8 F	3	A	25	200	-
050 015 000 TBS	G 1/2 F	4,5	A	20	160	-
050 020 000 TBS	G 3/4 F	7	A	14	84	-
050 025 000 TBS	G 1 F	7,8	A	10	60	-
050 032 000 TBS	G 1 1/4 F	15	A	5	30	-
050 040 000 TBS	G 1 1/2 F	21	A	4	24	-
050 050 000 TBS	G 2 F	34	A	2	12	-
050 065 000	G 2 1/2 F	64	A	-	8	-
049 080 000	G 3 F	81	B	-	5	-
049 100 000	G 4 F	102	B	-	2	-

049

Bronze Y-filter - FF - stainless steel filtering cartridge

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Mesh type: ***see chapter beginning***

Code	Size	Kv	Mesh type	📦	📦	€
049 010 000	G 3/8 F	1,4	B	10	80	-
049 015 000	G 1/2 F	3,3	B	10	80	-
049 020 000	G 3/4 F	5,6	B	15	60	-
049 025 000	G 1 F	7,9	B	10	40	-
049 032 000	G 1 1/4 F	12,9	B	5	30	-
049 040 000	G 1 1/2 F	15,8	B	4	24	-
049 050 000	G 2 F	19	B	2	12	-
049 065 000	G 2 1/2 F	?	B	-	8	-
049 080 000	G 3 F	81	B	-	5	-
049 100 000	G 4 F	102	B	-	2	-

050.2

Stainless steel spare filtering cartridges for code 050

Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
050 015 002	for filter G 1/4 F, G 3/8 F, G 1/2 F	A	-	-	-
050 020 002	for filter G 3/4 F	A	-	-	-
050 025 002	for filter G 1 F	A	-	-	-
050 032 002	for filter G 1 1/4 F	A	-	-	-
050 040 002	for filter G 1 1/2 F	A	-	-	-
050 050 002	for filter G 2 F	A	-	-	-
050 065 002	for filter G 2 1/2 F	A	-	-	-
050 080 002	for filter G 3 F	B	-	-	-
050 100 002	for filter G 4 F	B	-	-	-

049.1

Stainless steel spare filtering cartridges for code 049

Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
049 015 001	for filter G 3/8 F, G 1/2 F	B	-	-	-
049 020 001	for filter G 3/4 F	B	-	-	-
049 025 001	for filter G 1 F	B	-	-	-
049 032 001	for filter G 1 1/4 F	B	-	-	-
049 040 001	for filter G 1 1/2 F	B	-	-	-
049 050 001	for filter G 2 F	B	-	-	-
049 065 001	for filter G 2 1/2 F	B	-	-	-
050 080 002	for filter G 3 F	B	-	-	-
050 100 002	for filter G 4 F	B	-	-	-

053A

DZR brass Y-filter - MM - stainless steel filtering cartridge

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Mesh type: ***see chapter beginning***

Code	Size	Mesh type			€
053 A20 000 ONR	G 3/4 M	A	20	80	-

P21

Brass compact Y-filter - MM - stainless steel filtering cartridge. With flat seat for installation in box.

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Mesh type: ***see chapter beginning***

Code	Size	Kv	Mesh type			€
P21 015 000 TBS	G 1/2 M	2,75	A	20	160	-
P21 020 000 TBS	G 3/4 M	4,75	A	14	84	-
P21 025 000 TBS	G 1 M	7,3	A	10	60	-
P21 032 000 ONR	G 1 1/4 M	16	A	5	20	-

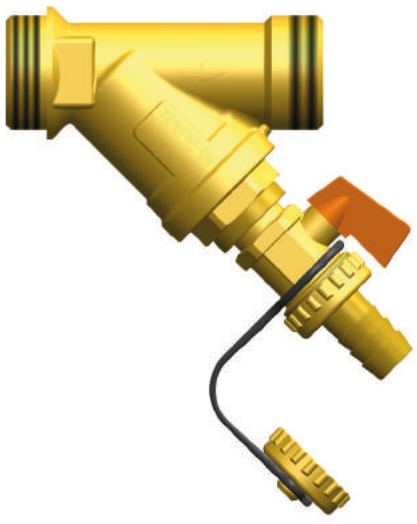
P22

Brass compact Y-filter - MM - complete with threaded G 1/2 probe holder plug. With flat seat for installation in box.

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Mesh type: ***see chapter beginning***

Code	Size	Kv	Mesh type			€
P22 015 000 ONR	G 1/2 M	2,75	A	20	160	-
P22 020 000 ONR	G 3/4 M	4,75	A	14	84	-
P22 025 000 ONR	G 1 M	7,3	A	10	60	-
P22 032 000 ONR	G 1 1/4 M	16	A	5	20	-

Coupling of P22 filter to P32 cock



NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

BALL SHUT-OFF VALVES AND COCKS

B9

215-219

Boiler drain ball shut-off valve - male connection - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
215 015 N00	G 1/2 M	-	100	-
219 020 N00	G 3/4 M	-	100	-

217-221

Boiler drain ball shut-off valve - female connection - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
217 015 N00	G 1/2 F	-	100	-
221 020 N00	G 3/4 F	-	100	-

P90

Ball shut-off valve with running nut and flat gasket - female connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P90 025 N00	G 1 F - G 1 RN	2	24	-

39D

Ball shut-off valve with pump connection - male connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
39D 020 000 R	G 1 1/2 RN - G 1 1/2 M	red	-	25	-

50D.M50

Ball shut-off valve with pump connection with possibility of temperature gauge integration - male connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
50D M50 000 R	G 2 RN - G 2 M	red	-	25	-

38D.1T

Ball shut-off valve with pump connection with possibility of temperature gauge integration - DN 25 - female connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 1T	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 1BT ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

P40

Compact ball shut-off valve with pump connection and compression end

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***

Code	Size			€
P40 022 000	G 1 1/2 RN - 22 mm	6	48	-
P40 028 000	G 1 1/2 RN - 28 mm	6	48	-

P41

Compact ball shut-off valve with pump connection and female connection

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***

Code	Size			€
P41 025 000	G 1 1/2 RN - G 1 F	6	48	-

P41.I2

2 compact ball shut-off valves with pump connection and female connection

Max working temperature: ***95 °C***
Max working pressure: ***6 bar***

Code	Size			€
P41 025 000 I2 NEW	G 1 1/2 RN - G 1 F	6	48	-

300

Ball shut-off valve with integreted T-joint - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
300 015 N00 ONR	15 mm - G 1/2 M	12	96	-

301

Ball shut-off valve with handle - compression end - flow direction from compression end to M thread - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
301 015 N00 ONR	15 mm - G 1/2 M	35	280	-

301.1

Ball shut-off valve with handle - compression end flow direction from M thread to compression end - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
301 015 N00 1 ONR	G 1/2 M - 15 mm	35	280	-

303

Ball shut-off valve without handle - compression end - flow direction from compression end to M thread - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
303 015 N00 ONR	15 mm - G 1/2 M	50	400	-

303.1

Ball shut-off valve without handle - compression end flow direction from M thread to compression end - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
303 015 N00 1 ONR	G 1/2 M - 15 mm	50	400	-

W09

Drain cock with adjustable plastic hose connection (hose diameter lower than 11 mm)

Max working temperature: ***80 °C***
Max working pressure: ***4 bar***

Code	Size			€
W09 010 N00	G 3/8 M	30	600	-

P59

Drain cock with adjustable plastic hose connection - with knob (hose diameter lower than 9 mm)

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P59 008 N00	G 1/4 M	30	600	-
P59 010 N00	G 3/8 M	30	600	-

W33

Drain cock with adjustable brass hose connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
W33 008 000 T ONR	G 1/4 M - G 3/4 M	30	240	-

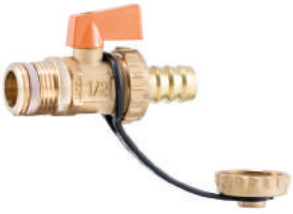
P82

Drain ball cock - with hose connection and plug

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P82 015 N00	G 1/2 M - G 3/4 M	10	40	-

P32



Ball drain cock for solar thermal systems - with 15 mm hose connection and plug

Max working temperature: ***150 °C***
Max working pressure: ***16 bar***

Code	Size			€
P32 015 000	G 1/2 M	10	40	-

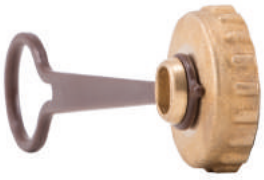
175.17

Brass hose connection

Max working temperature: ***95 °C***

Code	Size			€
175 015 017 I ONR	G 3/4 F	-	-	-

650



Plug with collar (code xxx xxx Nxx nickel-plated)

Max working temperature: ***95 °C***

Code	Size			€
650 015 000 ONR	G 1/2 F	-	-	-
650 020 000 ONR	G 3/4 F	-	-	-
650 015 N00 ONR	G 1/2 F	-	-	-
650 020 N00 ONR	G 3/4 F	-	-	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

MONOBLOCS

B10

	Ball	Filter	Single check valve	Double check valve	Check valve override	Pump connection	Drain/connections for bypass or air vent	Temperature gauge	Probe connection	Flow rate reducing valve	Pressure reducing valve	90° connections	Filling loop	Threaded connection	Compression ends
660F - 663F	○	○	○			○	○					○		○	○
662F - 665F	○	○	○			○	○					○		○	○
P38	○	○	○							○		○			○
720F	○	○	○												
406	○	○	○							○					○
P37	○	○	○							○					○
700F	○	○													
407	○	○								○					○
37D.DN25	○		○		○	○	○	○						○	
07D	○		○		○	○	○	○						○	
37D.1	○		○		○	○		○						○	
37D.1T	○		○		○	○		○						○	
37D.DN32	○		○			○		○						○	

	Ball	Filter	Single check valve	Double check valve	Check valve override	Pump connection	Drain/connections for bypass or air vent	Temperature gauge	Probe connection	Flow rate reducing valve	Pressure reducing valve	90° connections	Filling loop	Threaded connection	Compression ends
06D	○		○			○		○						○	
01C	○			○			○				○			○	○
425	○			○			○								○
425U	○			○			○							○	○
800	○			○			○						○		○
803	○			○			○						○		○
W10	○			○			○						○		○
W10.1	○			○			○						○		○
38D.DN25	○					○	○	○						○	
38D.DN32	○					○		○						○	
38D.1	○					○		○						○	
38D.2	○					○		○	○					○	
38D.1T	○					○								○	

700F

Monobloc "SUN" (ball shut-off valve + filter) - butterfly handle (on request: lever handle and nickel plated)

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size	Knob colour			€
700 015 0B0 FA0	G 1/2 F	red	-	50	-
700 015 0B0 FB0	G 1/2 F	blue	-	50	-
700 020 0B0 FA0	G 3/4 F	red	-	25	-
700 020 0B0 FB0	G 3/4 F	blue	-	25	-
700 025 0B0 FA0	G 1 F	red	-	20	-
700 025 0B0 FB0	G 1 F	blue	-	20	-

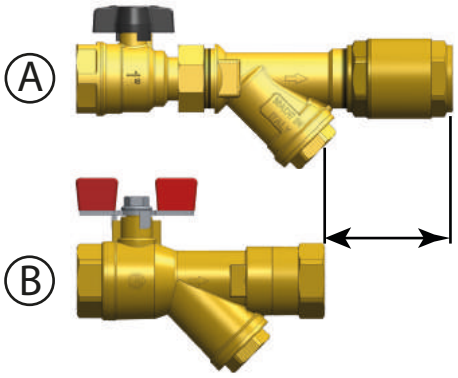
720F

Monobloc "MAGNUM" (ball shut-off valve + filter + check valve) - butterfly handle (on request: lever handle and nickel plated)

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size	Knob colour			€
720 015 0B0 FA0	DN 15 - G 1/2 F	red	1	50	-
720 015 0B0 FB0	DN 15 - G 1/2 F	blue	1	50	-
720 020 0B0 FA0	DN 20 - G 3/4 F	red	1	25	-
720 020 0B0 FB0	DN 20 - G 3/4 F	blue	1	25	-
720 025 0B0 FA0	DN 25 - G 1 F	red	1	20	-
720 025 0B0 FB0	DN 25 - G 1 F	blue	1	20	-

A) Installation with single devices - B) Monobloc with the same functions



Advantages of the monoblocs: reduced installation space, less hydraulic connections to be made, faster installation.

660F-663F

90° monobloc (ball shut-off valve + filter + check valve) with removable running nut - female connection - air vent connection - butterfly handle - DZR brass - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size	Knob colour		€
660 A10 NBS FL0	DN 10 - G 1/2 F - G 3/4 RN	red	50	-
660 A10 NBS FM0	DN 10 - G 1/2 F - G 3/4 RN	blue	50	-
663 A10 NBS FL0	DN 10 - G 1/2 F - G 1 RN	red	50	-
663 A10 NBS FM0	DN 10 - G 1/2 F - G 1 RN	blue	50	-
663 A15 NBS FA0	DN 15 - G 1/2 F - G 1 RN	red	50	-
663 A15 NBS FB0	DN 15 - G 1/2 F - G 1 RN	blue	50	-
660 A15 NBS FA0	DN 15 - G 1/2 F - G 3/4 RN	red	50	-
660 A15 NBS FB0	DN 15 - G 1/2 F - G 3/4 RN	blue	50	-
660 A20 NBS FA0	DN 20 - G 3/4 F - G 1 RN	red	25	-
660 A20 NBS FB0	DN 20 - G 3/4 F - G 1 RN	blue	25	-
660 A25 NBS FA0	DN 25 - G 1 F - G 1 1/4 RN	red	20	-
660 A25 NBS FB0	DN 25 - G 1 F - G 1 1/4 RN	blue	20	-

662F-665F

90° monobloc (ball shut-off valve + filter + check valve) with removable running nut - compression end - air vent connection - butterfly handle - DZR brass - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size	Knob colour		€
662 A10 NBS FL0	DN 10 - 15 mm - G 3/4 F	red	50	-
662 A10 NBS FM0	DN 10 - 15 mm - G 3/4 F	blue	50	-
665 A10 NBS FL0	DN 10 - 15 mm - G 1 F	red	50	-
665 A10 NBS FM0	DN 10 - 15 mm - G 1 F	blue	50	-
662 A15 NBS FA0	DN 15 - 15 mm - G 3/4 F	red	50	-
662 A15 NBS FB0	DN 15 - 15 mm - G 3/4 F	blue	50	-
665 A15 NBS FA0	DN 15 - 15 mm - G 1 F	red	50	-
665 A15 NBS FB0	DN 15 - 15 mm - G 1 F	blue	50	-
662 A22 NBS FA0	DN 20 - 22 mm - G 1 F	red	25	-
662 A22 NBS FB0	DN 20 - 22 mm - G 1 F	blue	25	-
662 A28 NBS FA0 ONR	DN 25 - 28 mm - G 1 1/4 F	red	20	-
662 A28 NBS FB0 ONR	DN 25 - 28 mm - G 1 1/4 F	blue	20	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

38D.DN25

Monobloc with pump connection (ball shut-off valve + temperaure gauge + 2 side connections) - temperaure gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

38D.DN32

Monobloc with pump connection (ball shut-off valve + temperature gauge) - temperature gauge 0–120 °C - DN 32

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 032 000	G 2 RN - G 1 1/4 F	red	-	16	-

38D.1T

Ball shut-off valve with pump connection with possibility of temperature gauge integration - DN 25 - female connection

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 1T	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 1BT ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

38D.1

Monobloc with pump connection (ball shut-off valve + temperature gauge) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 1	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 1B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

38D.2

Monobloc with pump connection (ball shut-off valve + temperature gauge + probe connection) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
38D 025 000 2	G 1 1/2 RN - G 1 F	red	-	16	-
38D 025 000 2B ONR	G 1 1/2 RN - G 1 F	blue	-	16	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

37D.DN25

Monobloc with pump connection (ball shut-off valve + temperature gauge + 2 side connections + check valve + check valve override) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 R ONR	G 1 F - G 1 1/2 RN	red	-	16	-

37D.DN32

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve) - temperature gauge 0–120 °C - DN 32

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 032 000	G 1 1/4 F - G 2 RN	blue	-	16	-

37D.1T

Monobloc with pump connection (ball shut-off valve + check valve + check valve override) - with possibility of temperature gauge integration - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000 1T	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 1RT ONR	G 1 F - G 1 1/2 RN	red	-	16	-

37D.1

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + check valve override) - temperature gauge 0–120 °C - DN 25

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
37D 025 000 1	G 1 F - G 1 1/2 RN	blue	-	16	-
37D 025 000 1R ONR	G 1 F - G 1 1/2 RN	red	-	16	-

06D

Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + holes for brackets) - temperature gauge 0–160 °C (32–320 °F) - red knob

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
06D 020 000 R	G 3/4 F - G 1 RN	red	-	24	-

07D

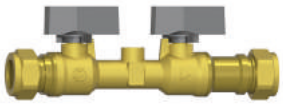
Monobloc with pump connection (ball shut-off valve + temperature gauge + check valve + holes for brackets + check valve override + side connection) - temperature gauge 0–160 °C (32–320 °F) - blue handle

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			€
07D 020 000	G 1 RN - G 3/4 F	blue	-	24	-

NUMBER OF PIECES IN BOX
NUMBER OF PIECES IN CARTON
TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

P99



Monobloc (double ball shut-off valve + check valve) with intermediate pressure test port connection - compression ends - DZR brass

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
P99 A15 000	DN 10 - 15 mm	12	72	-

425

"SIRIO" monobloc (ball shut-off valve + double check valve) with intermediate pressure test port connection - compression ends - DZR brass - nickel plated

Max working temperature: ***95 °C***
WRAS certification

Code	Size	Knob colour	P [bar]			DN	€
425 A10 N00	DN 8 - 15 mm	black	8	-	150	8	-
425 A15 N00	DN 10 - 15 mm	black	16	-	100	10	-

425U

"SIRIO" monobloc (ball shut-off valve + double check valve) with intermediate pressure test port connection - male connection and compression end - DZR brass - nickel plated

Max working temperature: ***95 °C***
WRAS certification

Code	Size	Knob colour	P [bar]			DN	€
425 A10 N00 U	DN 8 - 15 mm - G 1/2 M	black	8	-	150	8	-
425 A15 N00 U	DN 10 - 15 mm - G 1/2 M	black	16	-	100	10	-

800

Filling loop complete with ball shut-off valve + flexible pipe 400 mm + double check valve - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			DN	€
800 015 000	DN 10 - 15 mm	-	50	10	-

803

Filling loop complete with ball shut-off valve with handle + flexible pipe 400 mm + double check valve - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size	Knob colour			DN	€
803 015 000	DN 10 - 15 mm	black	-	50	10	-

W10

Filling loop complete with ball shut-off valve + flexible pipe 400 mm + monobloc "SIRIO" - nickel plated

Max working temperature: ***95 °C***

Code	Size	Knob colour	P [bar]			DN	€
W10 010 N00	DN 8 - 15 mm	black	6	-	40	8	-
W10 015 N00	DN 10 - 15 mm	black	10	-	40	10	-

W10.1

Filling loop complete with ball shut-off valve with handle + flexible pipe 400 mm + monobloc "SIRIO" - nickel plated

Max working temperature: ***95 °C***

Code	Size	Knob colour	P [bar]			DN	€
W10 010 N00 1	DN 8 - 15 mm	black	6	-	40	8	-
W10 015 N00 1	DN 10 - 15 mm	black	10	-	40	10	-

01C

DN 10 monobloc with double check valve and pressure reducing valve (code "XXX XXX NXX" nickel plated)

Factory setting: ***3 bar***
Max upstream pressure: ***16 bar***
Downstream setting pressure: ***1–4 bar***
Guaranteed reduction ratio: ***5/1***
Max working temperature: ***80 °C***
Max working pressure: ***15 bar***

Code		Size	Knob colour			€
01C 015 000	ONR	15 mm - G 3/4 M	black	-	30	-
01C 015 N00	ONR	15 mm - G 3/4 M	black	-	30	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

FITTINGS

B11

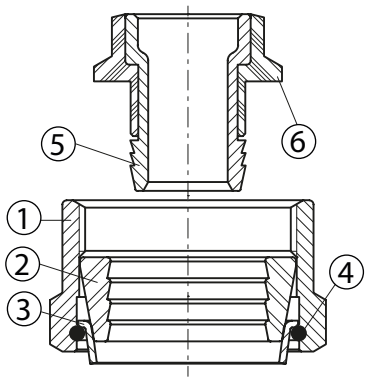
V58

Compression fitting for PEx and multilayer pipes. For heating and cooling circuits. Other sizes available on request.

Tightening torque: ***15–20 N·m***
Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size	Pipe [mm]			€
V58 034 NEA TBS	G 3/4 F	16x2	10	-	-
V58 034 NFA TBS	G 3/4 F	17x2	10	-	-
V58 034 NHB TBS	G 3/4 F	20x2,25	10	-	-

Fitting V58



Advantages and characteristics of V58 fittings for multilayer and PEx pipes:
- Composed of two parts only: nut and reinforcing insert
- NBR gasket coupled to the reinforcing insert
- Pipe anti-torsion ring. The nut contains an elastic ring with a function similar to a ball bearing: when screwing the nut, the elastic ring avoids the pipe torsion thus making the installation easier and faster. The installation can be performed using one hand only.
- Components:
1) Nickel plated nut
2) Nylon bush
3) Steel pressing ring
4) Stainless steel anti-torsion elastic ring
5) Brass reinforcing insert
6) NBR gasket

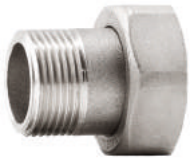
P93

Fitting with running nut and flat gasket

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 000	G 1/2 M - G 3/4 RN	20	80	-
P93 020 000	G 3/4 M - G 1 RN	16	64	-
P93 025 000	G 1 M - G 1 1/4 RN	8	64	-
P93 032 000	G 1 1/4 M - G 1 1/2 RN	4	32	-

P93.N



Fitting with running nut and flat gasket - nickel plated

Max working temperature: ***100 °C***
Max working pressure: ***25 bar***

Code	Size			€
P93 015 N00	G 1/2 M - G 3/4 RN	20	80	-
P93 020 N00	G 3/4 M - G 1 RN	16	64	-
P93 025 N00	G 1 M - G 1 1/4 RN	8	64	-
P93 032 N00	G 1 1/4 M - G 1 1/2 RN	4	32	-

Y77.2

Fitting with running nut and flat gasket - M and F connection of the same size

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y77 A20 000 2	G 3/4 M - G 3/4 RN	20	80	-
Y77 A25 000 2	G 1 M - G 1 RN	20	80	-

Y77.N2

Fitting with running nut and flat gasket - M and F connection of the same size - nickel plated

Max working temperature: ***110 °C***
Max working pressure: ***16 bar***

Code	Size			€
Y77 A20 N00 2	G 3/4 M - G 3/4 RN	20	80	-
Y77 A25 N00 2	G 1 M - G 1 RN	20	80	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

44D.DN25

2 female fittings (tailpieces and nuts) with flat gasket - DN 25

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
44D 025 000	G 1 F - G 1 1/2 RN	2	50	-

44D.DN32

2 female fittings (tailpieces and nuts) with flat gasket - DN 32

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
44D 032 000	G 1 1/4 F - G 2 RN	2	-	-

V38.P

2 fittings FM with flat gaskets to adapt 130 mm centre distance pumps to 180 mm centre distance

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Code	Size			€
V38 040 000 10 TBS	G 1 F - G 1 1/2 M	2	-	-
V38 040 000 11 TBS	G 1 1/2 F - G 1 1/2 M	2	-	-

V38.09

Fitting F with running nut and flat gaskets

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Code	Size			€
V38 025 000 09	G 1 F - G 1 1/2 RN	-	-	-

V35

Fitting kit with G 1 1/2 RN x G 1 1/2 RN running nuts, plug and flat gasket.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
V35 040 000 I	G 1 1/2 RN x G 1 1/2 RN	2	-	-

036.7

Hexagonal removable running nut

Max working temperature: ***140 °C***

Code	Size			€
036 020 007 ONR	G 3/4 RN	-	400	-
036 025 007 ONR	G 1 RN	-	400	-
036 032 007 ONR	G 1 1/4 RN	-	300	-
036 040 007 ONR	G 1 1/2 RN	-	250	-
036 050 007 ONR	G 2 RN	-	200	-

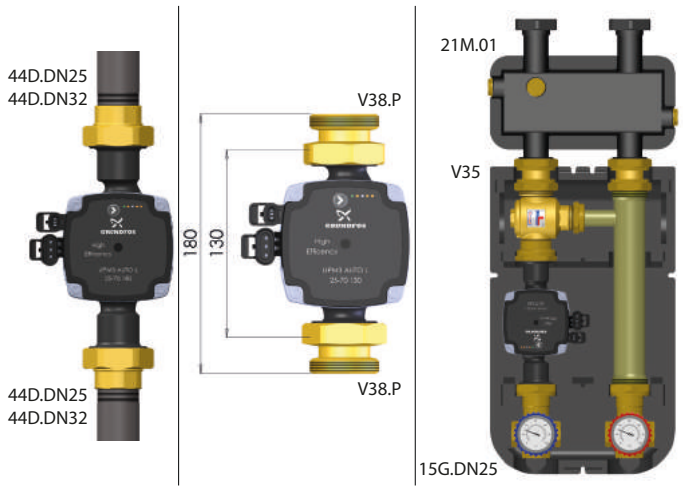
036.7N

Hexagonal removable running nut - nickel plated

Max working temperature: ***140 °C***

Code	Size			€
036 020 N07 ONR	G 3/4 RN	-	400	-
036 025 N07 ONR	G 1 RN	-	400	-
036 032 N07 ONR	G 1 1/4 RN	-	300	-
036 040 N07 ONR	G 1 1/2 RN	-	250	-
036 050 N07 ONR	G 2 RN	-	200	-

Use of fittings 44D.DN25 or 44D.DN32, V38P, V35



NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

188.3

Hexagonal running nut

Max working temperature: ***140 °C***

Code	Size			€
188 040 003 ONR	G 1 1/2 RN	-	50	-

188.3N

Hexagonal running nut - nickel plated

Max working temperature: ***140 °C***

Code	Size			€
188 040 N03 ONR	G 1 1/2 RN	-	50	-

032.7

Hexagonal nut for copper pipe, English type

Max working temperature: ***140 °C***

Code	Size			€
032 015 007 ONR	15 mm	-	-	-
032 022 007 ONR	22 mm	-	-	-
032 028 007 ONR	28 mm	-	-	-

032.7.N

Hexagonal nut for copper pipe, English type - nickel plated

Max working temperature: ***140 °C***

Code	Size			€
032 015 N07 ONR	15 mm	-	-	-
032 022 N07 ONR	22 mm	-	-	-
032 028 N07 ONR	28 mm	-	-	-

032.7.C

Hexagonal nut for copper pipe, English type - chrome plated

Max working temperature: ***140 °C***

Code	Size			€
032 015 C07 ONR	15 mm	-	-	-
032 022 C07 ONR	22 mm	-	-	-
032 028 C07 ONR	28 mm	-	-	-

032.8

Brass olive for copper pipe

Max working temperature: ***95 °C***

Code	Size	Type			€
032 015 008 ONR	15 mm	English	-	-	-
032 015 008 I ONR	15 mm	Irish	-	-	-
032 022 008 ONR	22 mm	English	-	-	-
032 022 008 I ONR	22 mm	Irish	-	-	-
032 028 008 ONR	28 mm	English	-	-	-
032 028 008 I ONR	28 mm	Irish	-	-	-

038.12

Copper olive for copper pipe

Max working temperature: ***95 °C***

Code	Size	Type			€
038 015 012 ONR	15 mm	English	-	-	-
038 022 012 ONR	22 mm	English	-	-	-
038 028 012 ONR	28 mm	English	-	-	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

16B

MM running fitting with integrated O-Ring

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
16B 025 000 1	G 3/4 M - G 1 M	25	100	-

16B.N

MM running fitting with integrated O-Ring - nickel plated

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***

Code	Size			€
16B 025 N00 1	G 3/4 M - G 1 M	25	100	-

12D-47D.A

Fitting G 3/4 M with compression end, with assembled nut, olive and O-Ring (codes "XXX XXX XXX M" without compression fitting)

Max working temperature: ***140 °C***
Max working pressure: ***16 bar***

Code	Size			€
12D 015 000	15 mm - G 3/4 M	2	-	-
12D 015 000 M	G 1/2 M - G 3/4 M	2	-	-
12D 018 000	18 mm - G 3/4 M	2	-	-
12D 020 000 M	G 3/4 M - G 3/4 M	2	-	-
12D 022 000	22 mm - G 3/4 M	2	-	-
12D 025 000 M	G 1 M - G 3/4 M	2	-	-
47D 020 004 A ONR	22 mm - G 3/4 F	2	-	-

V38.07

Fitting FM with flat gasket

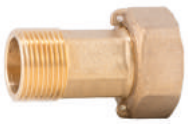
Max working temperature: ***100 °C***
Max working pressure: ***16 bar***

Code	Size			€
V38 025 000 07	G 1 F - G 1 1/2 M	-	-	-

541

Fitting with running nut and flat gasket - side holes for metering device sealing

Max working temperature: ***90 °C***



Code	Size	P [bar]			€
541 015 000	G 1/2 M - G 3/4 RN	16	14	56	-
541 020 000	G 3/4 M - G 1 RN	16	14	56	-
541 025 000	G 1 M - G 1 1/4 RN	10	8	64	-
541 032 000	G 1 1/4 M - G 1 1/2 RN	10	6	24	-
541 040 000	G 1 1/2 M - G 2 RN	8	4	16	-
541 050 000	G 2 M - G 2 1/2 RN	8	2	16	-

036.TI

Plug G 1 1/2 F with gasket.

Max working temperature: ***90 °C***
Max working pressure: ***10 bar***

Code	Size			€
036 040 007 TI	G 1 1/2 F	2	-	-

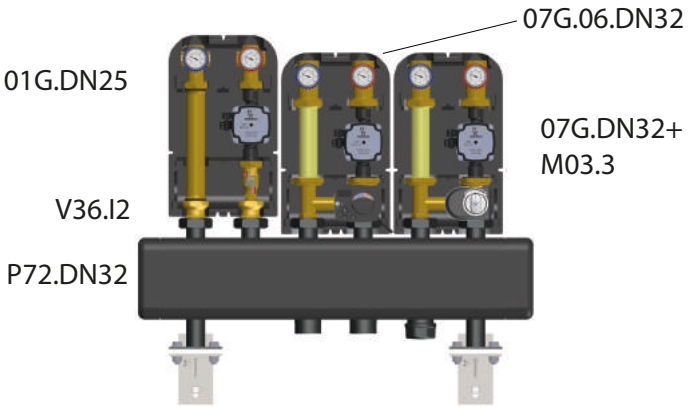
V36.I2

2 adapter fittings between DN 25 groups and DN 32 manifolds - flat gasket

Max working temperature: ***110 °C***
Max working pressure: ***10 bar***

Code	Size			€
V36 050 000 I2	G 2 M - G 1 1/2 F	2	-	-

Connection of a DN 25 group to the P72.DN32 manifold by means of the V36.I2 fittings



NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

V20.0

T fitting with 2 running nuts. Connection distance 62 mm. Complete with flat gaskets

Max working temperature: ***100 °C***
Max working pressure: ***10 bar***

Code	Size			€
V20 025 000	G 1 RN - G 1 M - G 1 RN	-	-	-

45D.DN25

T-joint - DN 25

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
45D 040 000	G 1 1/2 RN - G 1 1/2 M - G 1 RN	-	-	-

45D.DN32

T-joint - DN 32

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
45D 050 000 ONR	G 2 RN - G 2 M - G 1 1/4 RN	-	-	-

055.P

Nylon plug with O-Ring

Max working temperature: ***95 °C***

Code	Size			€
055 008 002 P01 ONR	G 1/4 M	-	-	-

175.17

Brass hose connection

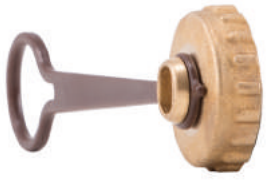
Max working temperature: ***95 °C***

Code	Size			€
175 015 017 I ONR	G 3/4 F	-	-	-

650

Plug with collar (code xxx xxx Nxx nickel-plated)

Max working temperature: ***95 °C***



Code		Size			€
650 015 000	ONR	G 1/2 F	-	-	-
650 020 000	ONR	G 3/4 F	-	-	-
650 015 N00	ONR	G 1/2 F	-	-	-
650 020 N00	ONR	G 3/4 F	-	-	-

P23

Brass Y fitting - MM - complete with threaded G 1/2 probe holder plug. With flat seat for installation in box.

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***

Code	Size			€
P23 015 000	G 1/2 M	20	160	-
P23 020 000	G 3/4 M	14	84	-
P23 025 000	G 1 M	10	60	-
P23 032 000 ONR	G 1 1/4 M	5	20	-

Coupling of P23 fitting to P32 cock

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
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NEW NEW ARTICLE

V38.05

Kit with Y fitting and immersion probe pocket

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 05	G 1/2 M	2	-	-
V38 020 000 05	G 3/4 M	2	-	-
V38 025 000 05	G 1 M	2	-	-
V38 032 000 05 ONR	G 1 1/4 M	2	-	-

Fitting V38.05 with pocket specific for immersion probe

P28.I4

Immersion probe pocket - seal on fitting

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
P28 015 000 I4 ONR	G 1/2 M	10	50	-

V38.06

Kit with Y fitting and immersion probe holder with seal on the probe

Max working temperature: ***95 °C***
Max working pressure: ***10 bar***
Probe diameter: ***6 mm***

Code	Size			€
V38 015 000 06	G 1/2 M	2	-	-
V38 020 000 06	G 3/4 M	2	-	-
V38 025 000 06	G 1 M	2	-	-
V38 032 000 06 ONR	G 1 1/4 M	2	-	-

Fitting V38.06 with immersion probe holder with seal on the probe

P28.I1

Immersion probe holder - seal on probe

Max working temperature: ***95 °C***
Max working pressure: ***16 bar***
Probe diameter: ***6 mm***

Code	Size			€
P28 015 000 I1 ONR	G 1/2 M	20	100	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

40D.DN20

Extension with flat seat, connection distance 210 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 025 000 NEW	G 1 M - 210 mm	-	16	-

40D.1.DN20

Extension with flat seat, connection distance 130 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 025 001 NEW	G 1 M - 130 mm	-	16	-

40D

Extension with flat seat, connection distance 272 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 000	G 1 1/2 M - 272 mm	-	16	-

40D.DN32

Extension with flat seat, connection distance 280 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 050 000 ONR	G 2 M - 280 mm	-	-	-

40D.2

Extension with flat seat, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 002	G 1 1/2 M - 180 mm	-	16	-

40D.2.DN32

Extension with flat seat, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 050 002 ONR	G 2 M - 180 mm	-	-	-

40D.L

L-extension with flat seat, connection distance 272 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 040 000 L	G 1 1/2 M - G 3/4 RN - 272 mm	-	16	-

40D.C

Extension with flat seat for 110 and 130 mm energy metering devices, connection distance 180 mm

Max working temperature: ***140 °C***
Max working pressure: ***10 bar***

Code	Size			€
40D 020 000	G 1 1/2 M - 180 mm	-	-	-

NUMBER OF PIECES IN BOX
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TBS ARTICLE THE BEST SELLER
ONR ARTICLE ON REQUEST
NEW NEW ARTICLE

560

Rubber gasket suitable for food industry

Max working temperature: ***60 °C***

Code		Size			€
560 010 000	ONR	22,5 - 17 - 2	-	-	-
560 015 000	ONR	30 - 21 - 3	-	-	-
560 020 000	ONR	36 - 23 - 3	-	-	-
560 025 000	ONR	45 - 33 - 3	-	-	-
560 032 000	ONR	55 - 42 - 3	-	-	-
560 040 000	ONR	55 - 48 - 3	-	-	-
560 050 000	ONR	68 - 58,6 - 2	-	-	-

575

Fiber gasket

Max working temperature: ***60 °C***

Code		Size			€
575 020 000	ONR	24,2 - 18 - 2	-	-	-
575 025 000	ONR	30 - 21 - 3	-	-	-
575 032 000	ONR	39 - 25 - 2	-	-	-
575 040 000	ONR	45 - 33,3 - 2	-	-	-
575 050 000	ONR	56,5 - 41 - 2	-	-	-

NOTES

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