



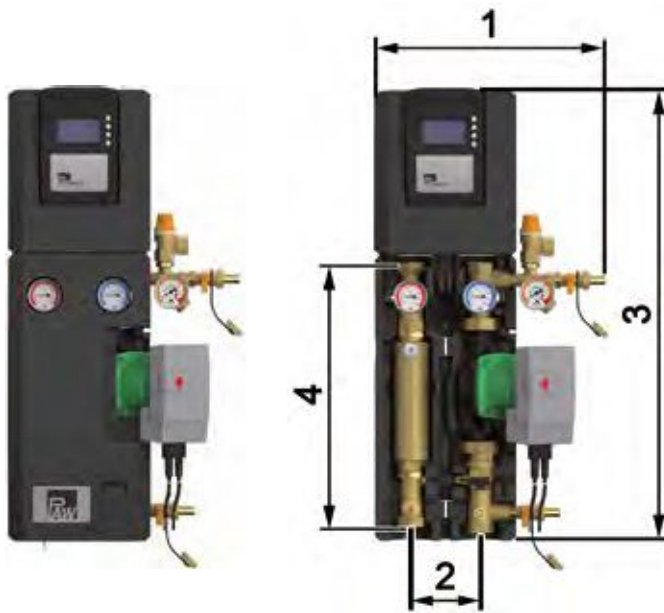
Solar stations DN 25

Catalogue 01/2018

Solar thermal solutions

Valid for the UK





Application range

- Efficient circulation of the solar fluid in the solar circuit

Range of application

- up to 125 m² of collector surface

For information on design data and the solpump indication of performance, see page 242/244.

Operating data

Max. pressure	6 bars
Max. operating temperature	120 °C
Low-flow = 0.25 l/minute per m ² of collector surface	up to 125 m² of collector surface
High-flow = 0.5 l/minute per m ² of collector surface	up to 80 m² of collector surface

Technical data

Equipment

Airstop	yes
Check valves	2 x 200 mm wc
FlowRotor	1-35 l/min
Pressure relief valve	6 bars
Controller	SC3.6
Sensors	2 x Pt1000 (mounted) 3 x Pt1000 (enclosed)
Pressure gauge	0-6 bars, temperature-resistant

Dimensions

Nominal diameter	DN 25 (1")
Connections	1" internal thread
(1) Width	336 mm
(2) Centre distance	100 mm
(3) Height	656 mm
(4) Installation length	385 mm / 394 mm
Depth	160 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP
Check valves	Brass

SolarBloC maxi

SolarBloC® maxi Premium - DN 25 (1")

Item no. € / piece



Wilo-Stratos PARA 25/1-11 T11, with controller	7683313WH11	-
Wilo-Yonos PARA ST 25/7.5, with controller	7683313WY8	-
Grundfos Solar PML 25-145, with controller	7683313GH14	-
Grundfos UPM3 Solar 25-75, with controller	7683313GP8	-
Grundfos UPM3 Solar 25-145, with controller	7683313GP14	-

Accessories

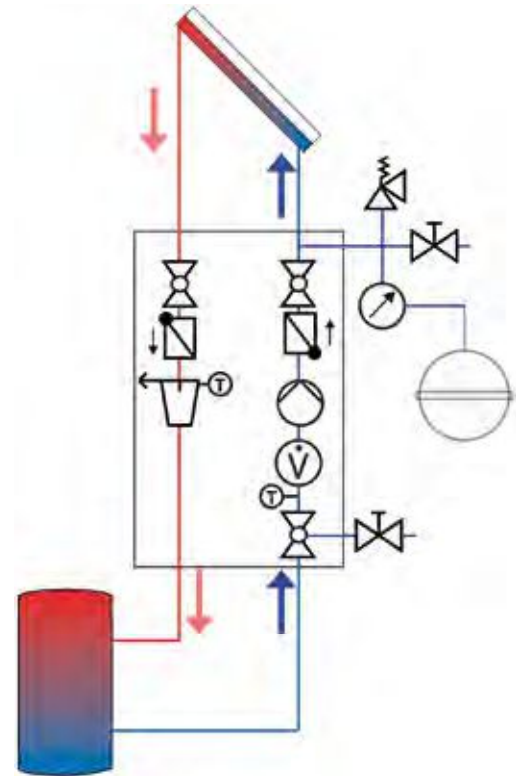
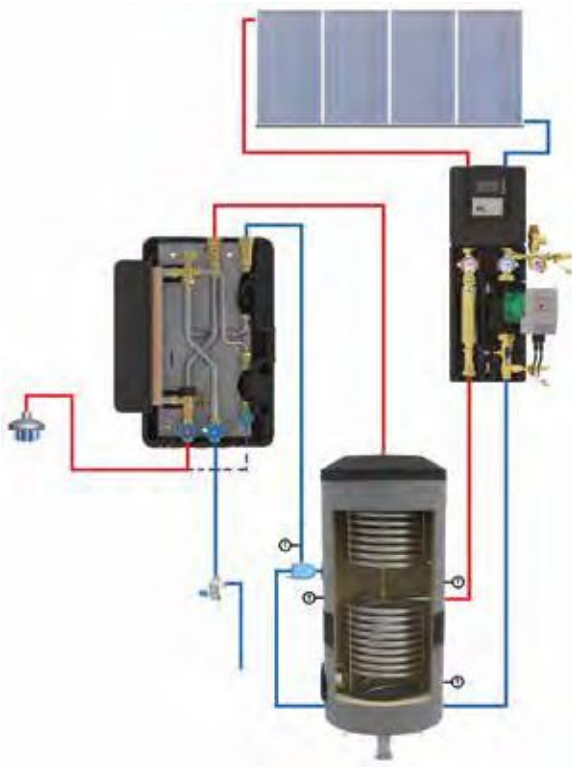
Item no. € / piece



Temperature sensor Pt1000	Q00146	-
- Measuring range: -50 °C ... +180 °C		
- Connection: 1.5 m of silicone cable		
- Dimensions: d = 6 mm		



SolarBloC® maxi Premium Mounting example, hydraulic scheme, differential pressure diagram

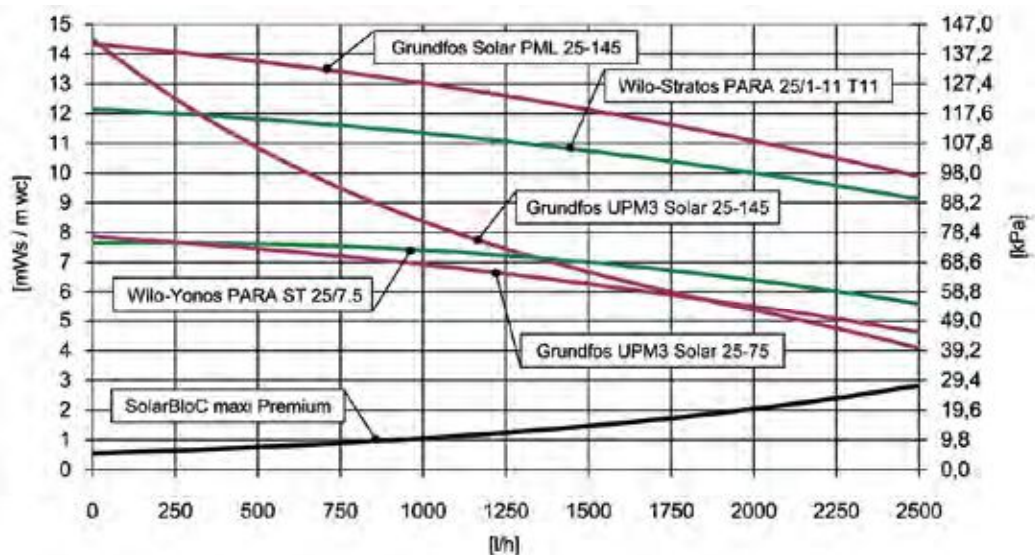


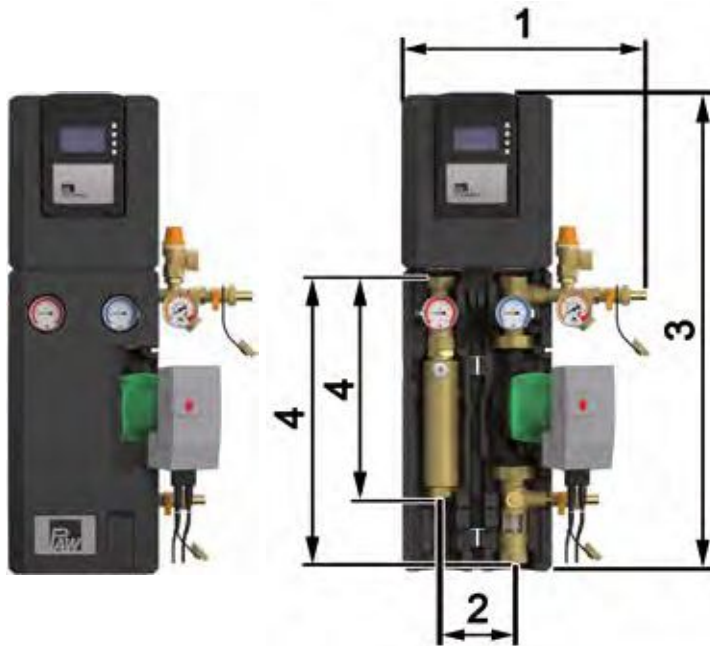
Mounting example SolarBloC maxi Premium
in combination with a FriwaMaxi with integrated circulation

Hydraulic scheme

SolarBloC
maxi

Differential pressure diagram





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Technical data

Equipment

Airstop	yes
Check valves	2 x 200 mm wc
Flowmeter	5-40 l/min
Pressure relief valve	6 bars
Controller	SC3.6
Sensors	2 x Pt1000 (enclosed, only in stations with controller)
Pressure gauge	0-6 bars, temperature-resistant

Dimensions

Nominal diameter	DN 25 (1")
Connections	1" internal thread
(1) Width	336 mm
(2) Centre distance	100 mm
(3) Height with controller	656 mm
Height	474 mm
(4) Installation length	304 mm / 395 mm
Depth	160 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP shells
Check valves	Brass

SolarBloC maxi

SolarBloC® maxi Basic - DN 25 (1")

Item no. € / piece



Wilco-Yonos PARA ST 25/7.5, with controller	6070523WY8	-
Wilco-Stratos PARA 25/1-11 T11, with controller	6070523WH11	-
Grundfos UPM3 Solar 25-75, with controller	6070523GP8	-
Grundfos UPM3 Solar 25-145, with controller	6070523GP14	-
Grundfos Solar PML 25-145, with controller	6070523GH14	-
Wilco-Yonos PARA ST 25/7.5, controller to be obtained by the customer	607052WY8	-
Wilco-Stratos PARA 25/1-11 T11, controller to be obtained by the customer	607052WP11	-
Grundfos UPM3 Solar 25-75, controller to be obtained by the customer	607052GP8	-
Grundfos UPM3 Solar 25-145, controller to be obtained by the customer	607052GP14	-
Grundfos Solar PML 25-145, controller to be obtained by the customer	607052GH14	-

Accessories

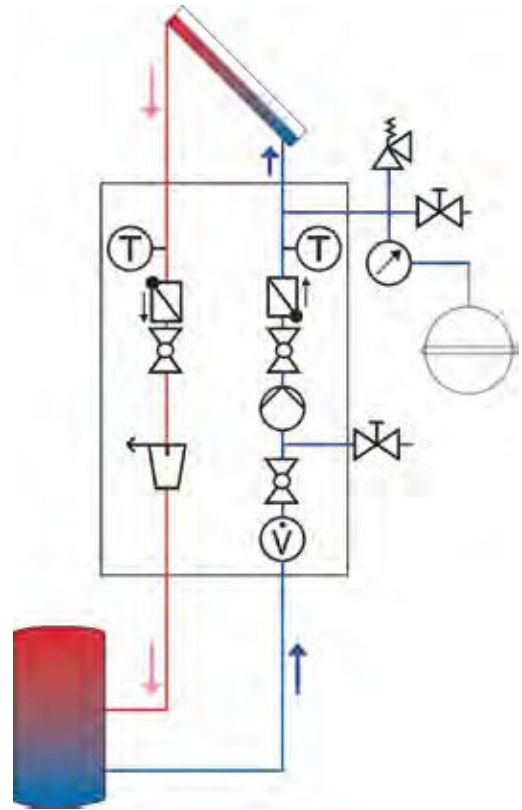
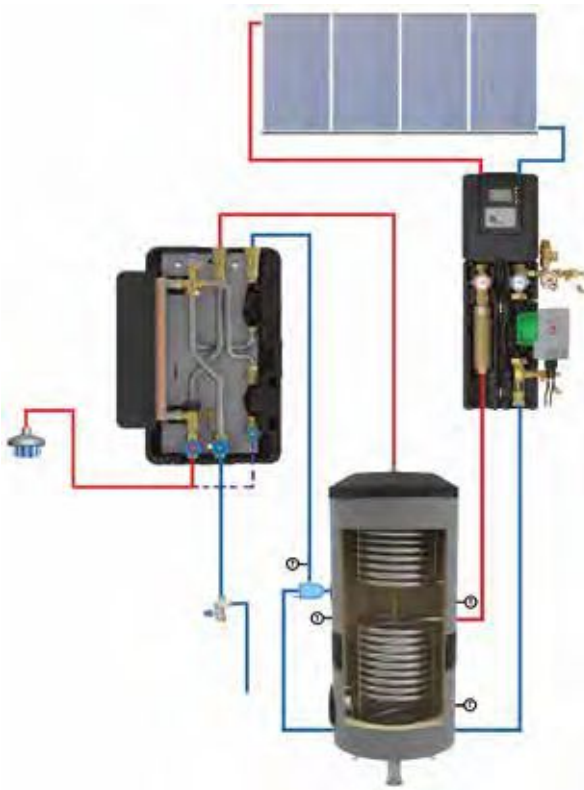
Item no. € / piece



Temperature sensor Pt1000	Q00146	-
- Measuring range: -50 °C ... +180 °C		
- Connection: 1.5 m of silicone cable		
- Dimensions: d = 6 mm		



SolarBloC® maxi Basic Mounting example, hydraulic scheme, differential pressure diagram

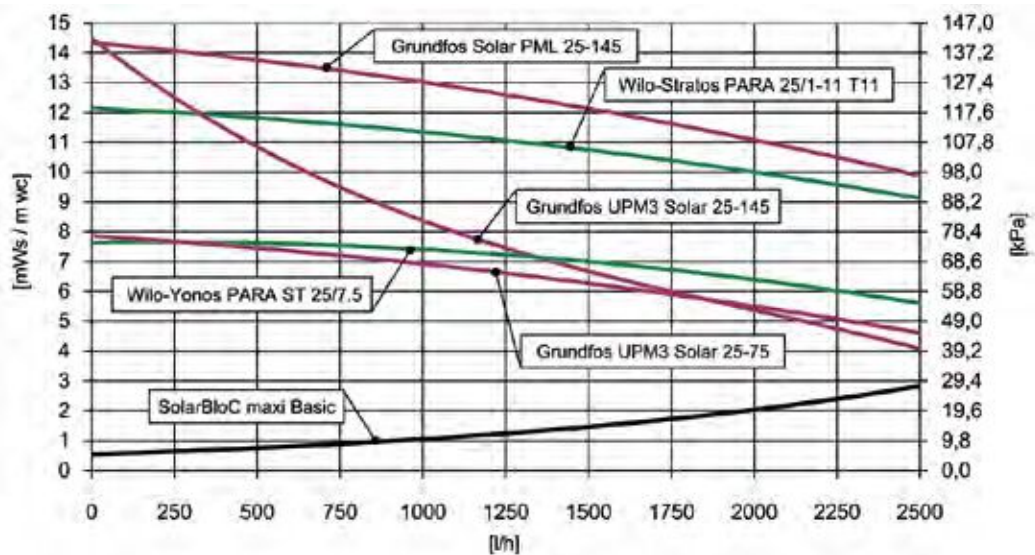


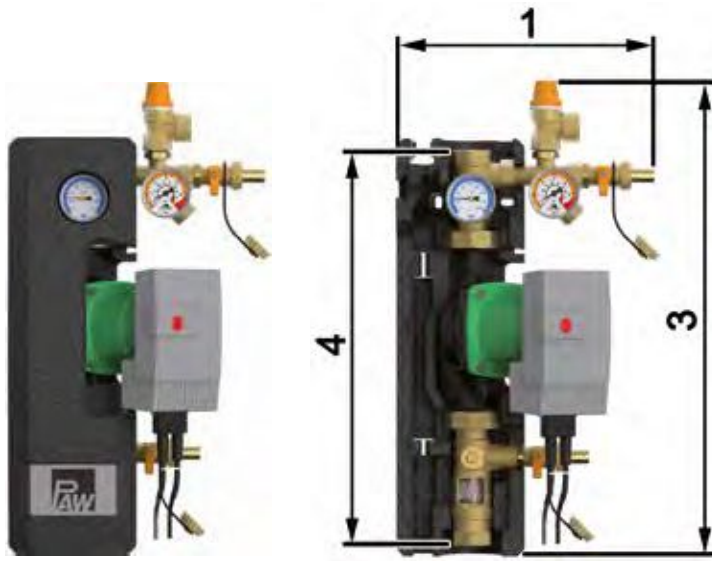
Mounting example SolarBloC maxi Basic
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SolarBloC
maxi

Differential pressure diagram





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Technical data

Equipment

Airstop	no
Check valves	1 x 200 mm wc
Flowmeter	5-40 l/min
Pressure relief valve	6 bars
Pressure gauge	0-6 bars, temperature-resistant

Dimensions

Nominal diameter	DN 25 (1")
Connections	1" internal thread
(1) Width	259 mm
(3) Height	474 mm
(4) Installation length	394 mm
Depth	174 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP
Check valves	Brass

SolarBloC maxi

SolarBloC® maxi Basic return station - DN 25 (1")

Item no. € / piece



Wilco-Stratos PARA 25/1-11 T11, controller to be obtained by the customer	7680210WP11	-
Wilco-Yonos PARA ST 25/7.5, controller to be obtained by the customer	7680210WY8	-
Grundfos UPM3 Solar 25-75, controller to be obtained by the customer	7680210GP8	-
Grundfos UPM3 Solar 25-145, controller to be obtained by the customer	7680210GP14	-
Grundfos Solar PML 25-145, controller to be obtained by the customer	7680210GH14	-

Accessories

Item no. € / piece



Solar check valve	1211	-
for the solar flow, 200 mm wc, can be opened, resistant up to 150 °C, 3/4" internal thread x 3/4" internal thread		



Temperature sensor Pt1000	Q00146	-
- Measuring range: -50 °C ... +180 °C - Connection: 1.5 m of silicone cable - Dimensions: d = 6 mm		



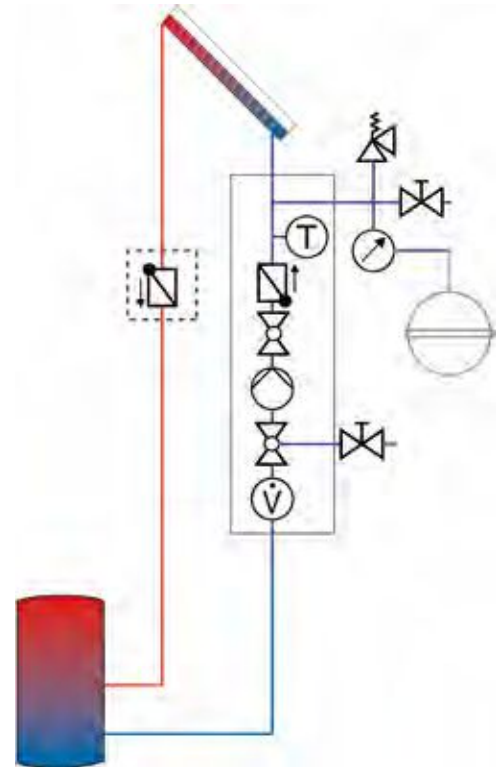
Dial thermometer with red scale	21711SOL	-
Dial thermometer with blue scale	21721SOL	-
Measuring range 0-160 °C, immersion shaft 25 mm, with self-sealing immersion sleeve, d = 50 mm		



SolarBloC® maxi Basic return station Mounting example, hydraulic scheme, differential pressure diagram

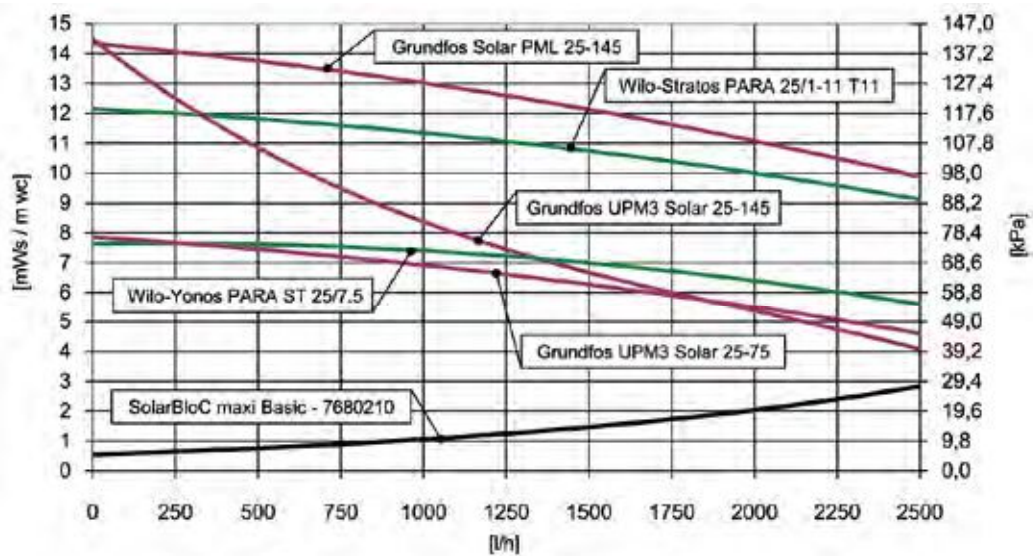


Mounting example



Hydraulic scheme

Differential pressure diagram



SolarBloC
maxi

Illustration		Item no.	€ / piece
	Hand filling pump ½" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bars, length 175 mm	7061	-
	Hand filling pump with fill and drain valve ½" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bars, length 225 mm	7062	-
	Hose connector hose connector for hand filling pump ½" x 15 mm	70611	-
	Flush and fill unit DN 25	5640	-
	Flush and fill unit DN 25 for 15 mm copper pipe	56431	-
	Flush and fill unit DN 25 for 18 mm copper pipe	56441	-
	Flush and fill unit DN 25 for 22 mm copper pipe consisting of: brass ball valve internal thread 1", with red butterfly handle, with 2 outlets ½" before and after the ball, 2 self-sealing fill and drain valves with hose connector 15 mm 56431, 56441, 56451, 56461: additionally with 2 cutting-ring compression fittings with support sleeve, premounted	56451	-
	Flush and drain unit DN 25 Counter-T-piece, self-sealing with fill and drain valve. For extending the solar station with a flush and drain connection or for installation at the lowest point (drain unit).	34611	-
	Cutting-ring compression fitting DN 25 d = 15 mm	562915	-
	Cutting-ring compression fitting DN 25 d = 18 mm	562918	-
	Cutting-ring compression fitting DN 25 d = 22 mm 1" external thread, self-sealing with o-ring, with support sleeve, suitable for soft copper pipes. For temperatures up to 150 °C.	562922	-
	Immersion sleeve 6 mm x 30 mm	566001	-
	Immersion sleeve 6 mm x 60 mm	566002	-
	Immersion sleeve 6 mm x 100 mm for the installation of temperature sensors (d = 6 mm) in the storage tank, the collector etc. 566001: self sealing, o-ring, polished brass, for sensor with a depth of 30 mm 566002: standard, chromed brass, for sensor with a depth of 60 mm 566003: standard, chromed copper, for sensor with a depth of 100 mm	566003	-
	Check valve with brass valve for solar applications SBE-AG DN 32 Check valve, can be opened, with external thread and PAW flange for warm water central heating PN 10, 120 °C, suited for horizontal and vertical installation, to be screwed directly to a DN 32 pump, assembly before/under the pump in the direction of flow. Opening pressure 200 mm wc.	10111SOL	-

Illustration		Item no.	€ / piece
	Stainless-steel corrugated hose Solarflex 18 mm - 800 mm	840180	-
	Stainless-steel corrugated hose Solarflex 22 mm - 800 mm Ideal for the roof part leading to the collector. Two soldered connections for clamping-ring compression fittings, for diameters of 18 mm or 22 mm. Temperature: -30 °C ... + 260 °C Max. admissible pressure: 12 bars Bursting pressure: 120 bars Bending radius: 45 mm Wall width: 0.2 mm Inside diameter: 12 mm or 16 mm Length: 500 mm or 800 mm	840280	-
	Hand refractometer The hand refractometer measures the anti-freeze safety of water-propylene glycol and water-ethylene glycol mixtures in solar thermal systems. It can also be used to determine the density of water-battery acid mixtures. Only one or two drops of the fluid are needed for the measurement. Measuring range: Propylene glycol 0-50 °C Ethylene glycol 0-50 °C Battery acid 1.10-1.40 g/cm ³	58055	-
	Pressure gauge 3/8" 0-6 bars	523206	-
	Pressure gauge 3/8" 0-10 bars with automatic isolation, solar version up to 130 °C, diameter 50 mm	523210	-
	2-way zone valve - DN 25	563542	-
	2-way zone valve - DN 32 can be used in solar and heating systems as a zone valve, which means that single parts of the system can be connected or disconnected. The actuator is equipped with a relay to be energized via a 2-point signal, if needed it can also be manually operated. The 2-way zone valve can be operated in both directions. Technical Data Power supply: 230 V / 50 Hz Casing protection type: IP 44, type II Power consumption: 3 VA (standby); 7.5 VA (operation) Setting time for 90°: 30 sec. Ambient temperature: -10 °C ... +60 °C Fluid temperature: 0 °C ... 100 °C, short-term 115 °C Kvs value: full port Equipment: 2 x 1" internal thread, with 2 m cable 4 x 0.5 mm ²	563552	-
	3-way zone valve - DN 25	563543	-
	3-way zone valve - DN 32 can be used in solar and heating systems to switch between different zones or to disconnect different parts of the system. The actuator is equipped with a relay to be energized via a 2-point signal, if needed it can also be operated manually. The 3-way zone valves can be operated in both directions. Technical Data Power supply: 230 V / 50 Hz Casing protection type: IP 44, type II Power consumption: 3 VA (standby); 7.5 VA (operation) Setting time for 90°: 18 sec. Ambient temperature: 0 - 55 °C, non condensing Fluid temperature: 2 °C - 110 °C, short-term 115 °C Kvs value: DN 25: 11 DN 32: 15 Connection: DN 25: 3 x 1" internal thread DN 32: 3 x 1 1/4" internal thread Equipment: with 1.8 m cable 4 x 0.5 mm ²	563553	-