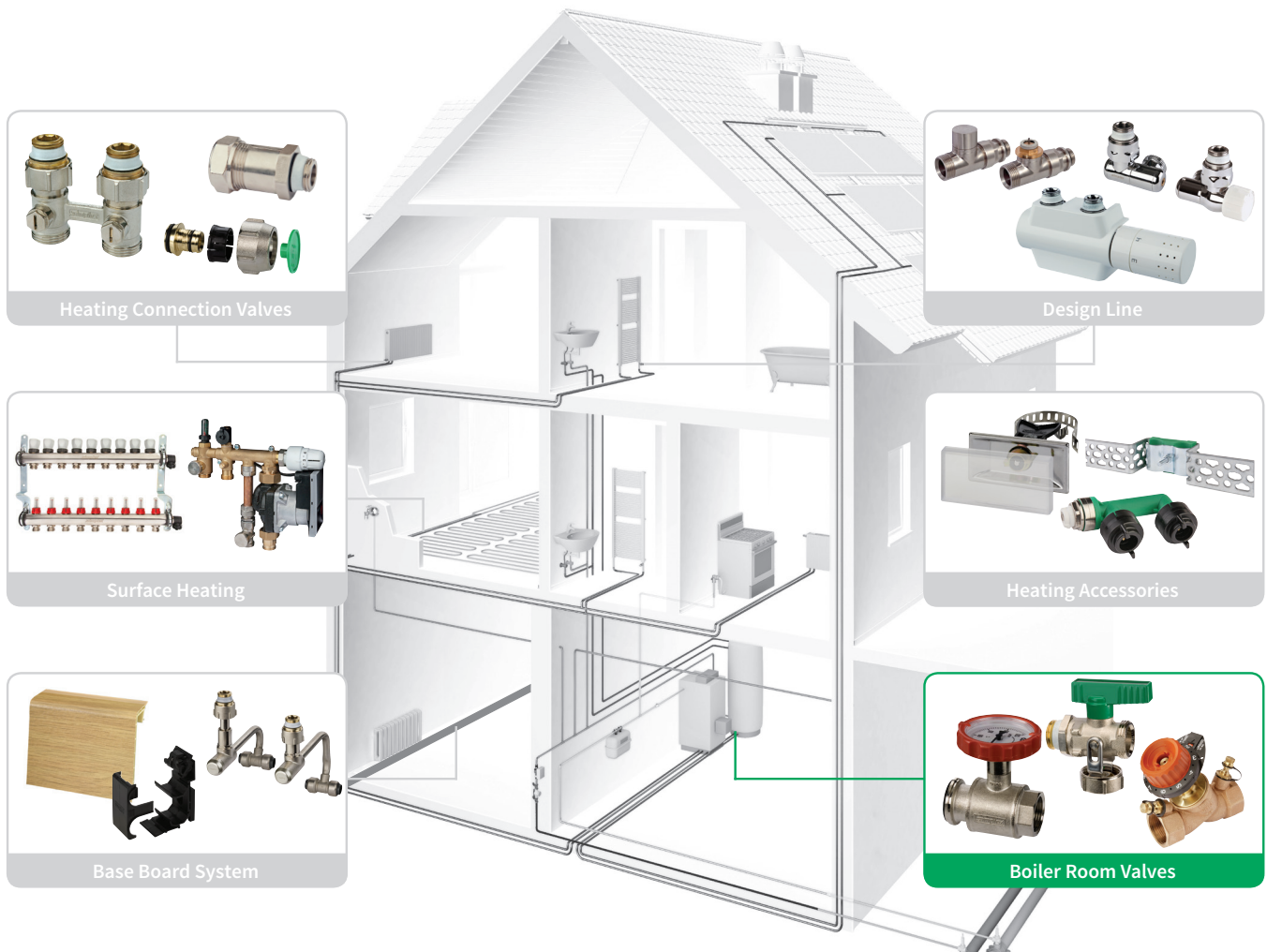




## KFE Ball Valves – The Benchmark for Quality and Reliability

- For heating, domestic water and solar
- Ease of installation due to proven design
- Convenient operation

## Simplex Products at a Glance



## Simplex KFE Ball Valves

Top quality standards, reliability, innovative power and service – these values have a long-standing tradition at Simplex. Trendsetting, sustainable system solutions for heating installations safeguard Simplex's outstanding market position. At the same time, Simplex provides safety and comfort as well as new trends and contemporary design – your one-stop company!

The Simplex KFE Ball Valve range includes the Following:

- ♦ KFE ball valves for heating systems
- ♦ KFE ball valves for domestic water systems
- ♦ KFE ball valves for solar systems

## **| The Benchmark for Quality and Reliability**



### ***Product Benefits at a Glance:***

- ◆ *Reliable installation and proven sealing technology*
- ◆ *Complete range heating, domestic water and solar*
- ◆ *Sturdy lever handle can be removed without tools to prevent unauthorised operation*
- ◆ *Blind cap cannot be lost due to stainless steel swivel bracket, which can also be used for operation*

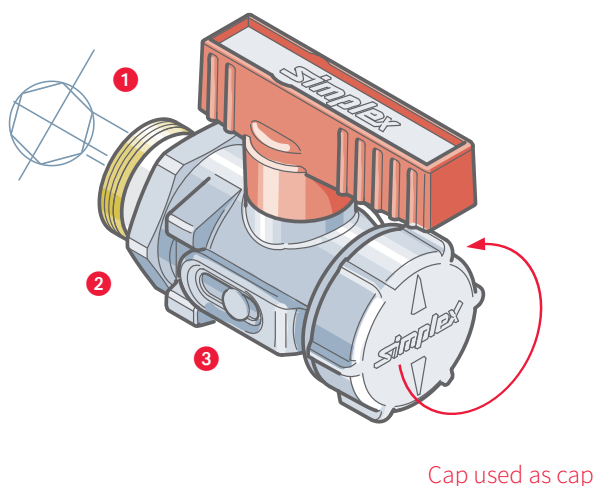
## KFE Ball Valves

### Benefits of Simplex KFE Ball Valves

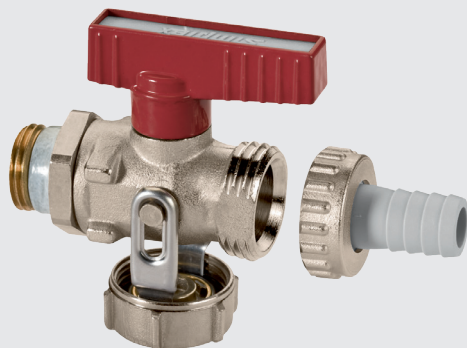
- 1 Safe installation thanks to self-sealing thread
- 2 Exact axial positioning using lock nut
- 3 Exact guidance of blind cap by stainless steel swivel bracket – no chain or loop to tear off
- 4 Hidden operating element by blind cap, which serves as a manual wheel

### Wide range

Most versions are also available with hose connections.



### Heating



### KFE Ball Valve with Male Thread for Heating

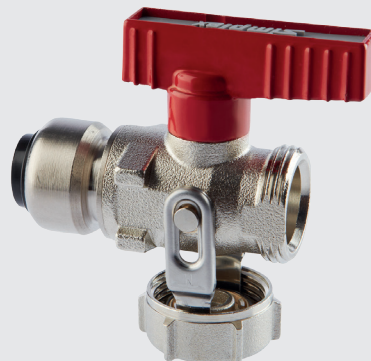
Version	Dim.	Article no.	Feature
Straight	G 1/2 m	F10637	
Angle	G 1/2 m	F10670	
Straight	G 1/2 m	F10657	silicone-free*
Angle	G 1/2 m	F10658	silicone-free*
Straight	G 3/4 m	F10680	Brass hose connection
Straight	G 1/2 m	F10640	long version
Angle	G 1/2 m	F10673	long version

### KFE Ball Valve with Female Thread for Heating

Straight	Rp 1/2	F10634	with female thread
Angle	Rp 1/2	F10664	with female thread



### Heating



### KFE Ball Valve with TECTITE Push-fit Connection for Heating

Version	Dim.	Article no.	Feature
Straight	15 mm	F10661	detachable push-fit connection
			no need for a complex tool
			suitable for copper, carbon steel and stainless steel

### Application – Heating

#### Temperature and pressure range:

Max. pressure: 10 bar

Max. temp.: 110 °C permanent temperature, 130 °C short-term

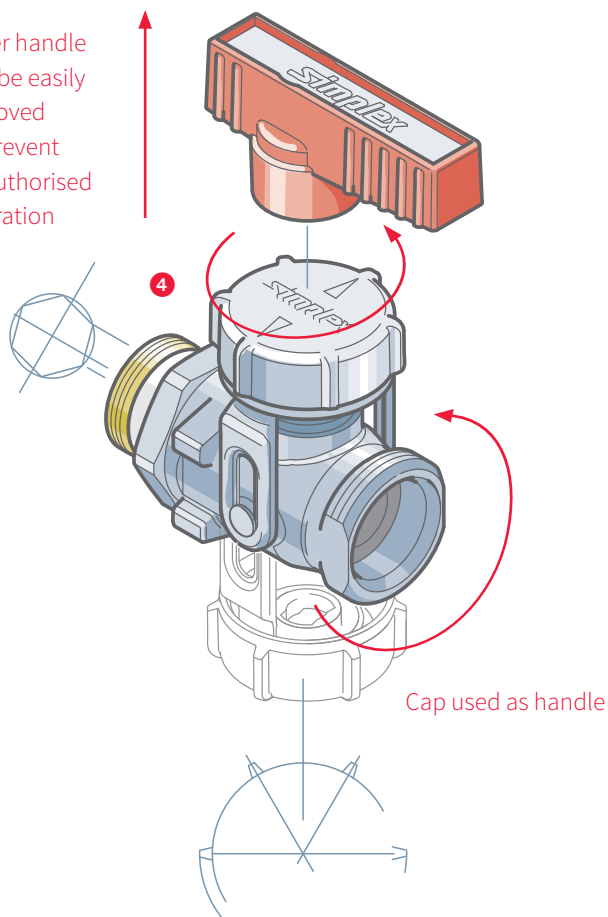
\*free of paint-wetting lubricating and installation additives for use in industrial systems.

G m = parallel male thread according to DIN EN ISO 228-1

G f = parallel female thread according to DIN EN ISO 228-1

Rp = parallel female thread according to DIN EN 10226-1.

Lever handle  
can be easily  
removed  
to prevent  
unauthorised  
operation



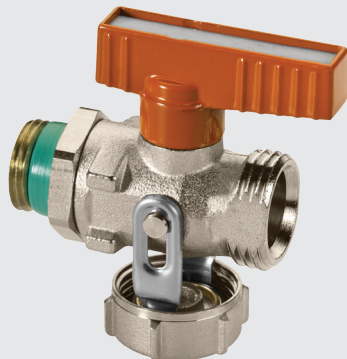
## KFE Ball Valves for Domestic Water

The Simplex boiler room valve, which has proved itself millions of times over, is also available for domestic water installation – certainly put through its paces! § 12 (4) of the German Water Supply Regulation (AVBWasserV) requires that only materials and equipment are used that are produced in accordance with the known rules of technology. This Simplex KFE ball valve has DVGW approval and lacks for nothing:

- ◆ Suitable for all domestic water systems in line with the current Drinking Water Directive (TrinkwV)
- ◆ Screw-in nipple made of dezincification-resistant brass
- ◆ DVGW-certified
- ◆ Available as a straight and angle version
- ◆ With many extras (e.g. removable lever handle and attached blind cap)



**Solar**



**KFE Ball Valve with Male Thread for Solar**

Version	Dim.	Article no.	Feature
Straight	G 1/2 m	F10647	for higher temperature requirements

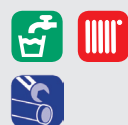
### Application – Solar

#### Temperature and pressure range:

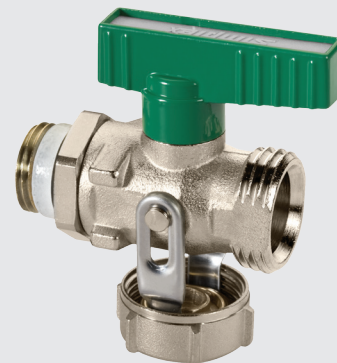
Max. pressure: 10 bar

Max. temp.: 180 °C permanent temperature, 200 °C short-term

**Medium:** Water-glycol mix up to 50 % glycol ratio



**Domestic Water & Heating**



**KFE Ball Valve with Male Thread and DVGW Approval**

Version	Dim.	Article no.	Feature
Straight	G 1/2 m	F10639	
Angle	G 1/2 m	F10669	
Straight	G 1/2 m	F10667	silicone-free*
Angle	G 1/2 m	F10668	silicone-free*

### Applications – Domestic Water & Heating

#### Temperature and pressure range:

Max. pressure: 10 bar

Max. temp.: 110 °C permanent temperature, 130 °C short-term

Also in the Simplex product range: **Spare parts for KFE ball valves**

**Lever handle:** F10102 (Heating-red), F10101 (Solar-orange), F10174 (Domestic water - DVGW-green)

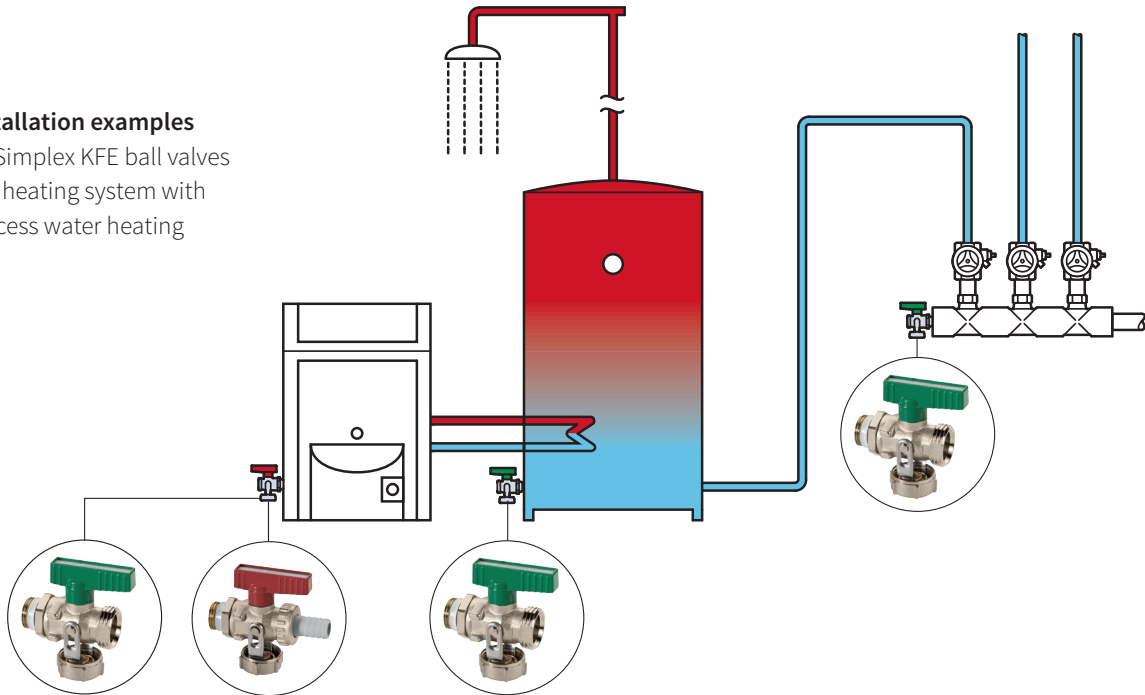
**Cap:** F10643 (G3/4f), F10504 (G1f)

**Hose connection:** F10372 (plastic-zinc die-cast), F10345 (nickel-plated brass)

**Simplex**

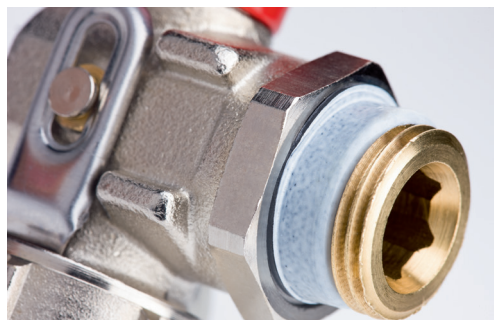


**Installation examples**  
for Simplex KFE ball valves  
in a heating system with  
process water heating



## The Seal is what Matters

Simplex self-sealing threaded connections have long been a firm favourite on the market. It is no wonder as they are the result of many years of development work and extensive knowledge and expertise. The benefits are convincing: self-sealing threaded connections are permanently tight and the need for additional sealing with hemp is a thing of the past.



The secret of Simplex's success is made up of **five building blocks**, which Simplex has perfectly combined:

### 1. Raw Mixture

Resistance to heat and ageing is crucial when it comes to seals in heating systems. Simplex seals therefore are manufactured using a unique, specially developed formula.

### 2. Vulcanization

Seals exposed to temperature must be fully vulcanized (cross-linked) during the manufacturing process. Simplex easily meets these requirements in full. Our production runs automatically on modern machines at our factory.

### 3. Interconnection

Normally sulphur cured EPDM seals are used in heating systems. They shrink when exposed to heat and therefore cannot guarantee permanent leak-tightness. Simplex seals, on the other hand, are made of an ageing-resistant, peroxide-cross-linked raw mixture.

### 4. Hardness Setting

Another special feature: the hardness of Simplex seals has a narrow tolerance range of 85 Shore. This makes them harder than commonly known seals made of flexible materials.

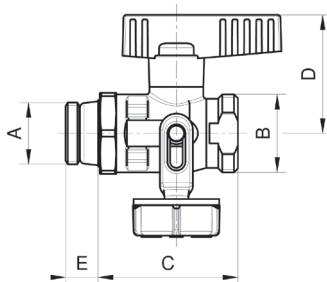
### 5. Coating

The white coating makes Simplex seals mechanically tough, abrasion-resistant and friction-free.

## Dimensional Drawings of KFE Ball Valves

### Straight form with male thread

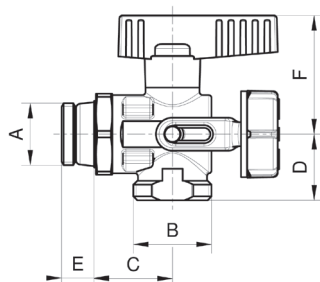
F10637, F10639, F10647, F10657, F10667



A	B	C	D	E
G1/2m	G3/4m	47	40	11

### Angle form with male thread

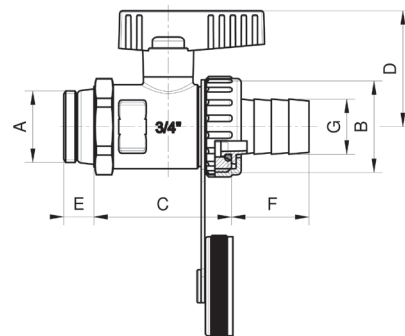
F10670, F10669, F10658, F10668



A	B	C	D	E	F
G1/2m	G3/4m	26	22	11	40

### Straight form with male thread DN20

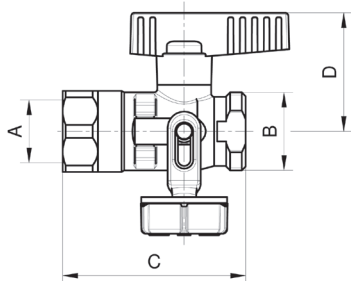
F10680



A	B	C	D	E	F	G
G3/4m	G1m	50	42	11	28	Ø 20

### Straight form with female thread

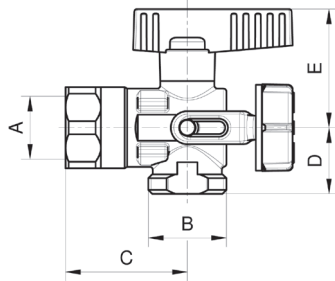
F10634



A	B	C	D
Rp1/2	G3/4m	61	40

### Angle form with female thread

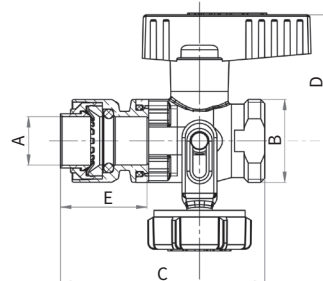
F10664



A	B	C	D	E
Rp1/2	G3/4m	41	22	40

### Straight form with TECTITE push-fit connection

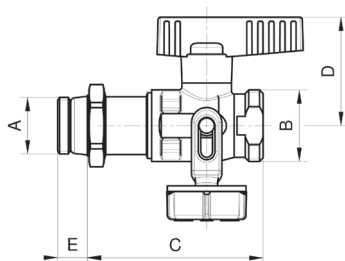
F10661



A	B	C	D	E
15	G3/4m	64	40	27

### Straight form with male thread, long version

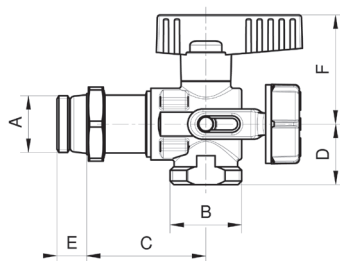
F10640



A	B	C	D	E
G1/2m	G3/4m	64	40	11

### Angle form with male thread, long version

F10673



A	B	C	D	E	F
G1/2m	G3/4m	44	22	11	40

More dimensional drawings can be found on our website at [www.simplex-armaturen.de](http://www.simplex-armaturen.de)  
Dimensions in mm.



The photos in this brochure are for illustration only and may differ from the respective product.  
Errors and technical changes reserved.