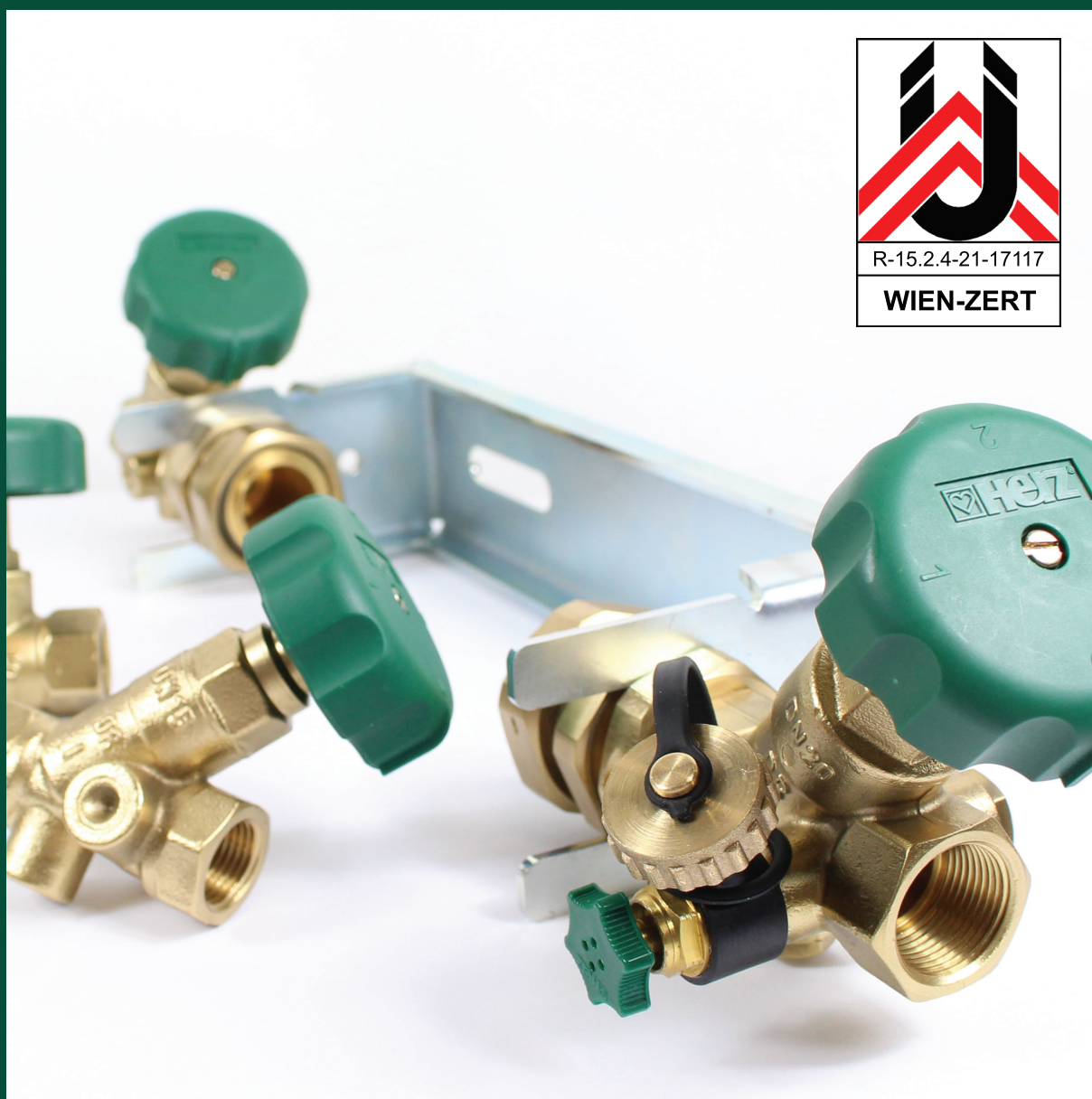


Shut-off valves in drinking water installations

For drinking water systems in buildings



Shut-off valves in drinking water installations

☑ Overview

Drinking water is an extremely valuable foodstuff that requires special protection. In 2010, the right to access to clean water was recognised as a human right. This shows the immense importance of drinking water. However, the availability of clean, hygienically safe drinking water cannot be taken for granted. The protection of drinking water is therefore correspondingly important. Many national standards and regulations are aimed at this: according to the Austrian Food Code (Codex alimentarius), drinking water is water that, in its natural state or after treatment, is suitable „for consumption by humans without endangering their health and that is flawless in terms of odour, taste and appearance“.

It goes without saying that the materials used by HERZ for drinking water fittings fulfil important national and European norms and standards. The Austrian series of standards ÖNORM B 5014 1-3 „Sensory and chemical requirements and testing of materials in the drinking water sector“ and the assessment principles of the German Federal Environment Agency (UBA) for metallic materials, plastics and elastomers should be emphasised here. This ensures that the high quality of drinking water is maintained right through to the consumer.




☑ Benefits

- | | |
|--|------------------------------|
| ☑ Development, design and production from HERZ | ☑ Made in the EU |
| ☑ Large variety of products | ☑ According to ÖNORM EN 1213 |
| ☑ ÜA installation mark for legally compliant installation in drinking water installations in Austria | ☑ ÖVGW tested and certified |
| ☑ Sophisticated construction design | |




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☑ Shut-off valves for drinking water systems with non-rising stem, with drain plugs

Equipped with the ÜA installation mark and ÖVGW tested and registered. Dead space free. Brass body with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Non-rising stem, stem sealed by elastic double O-ring, upper part sealed in the body by O-ring seal. All materials are approved for drinking water. Flow rate class VB, fitting group I, ÖNORM EN 1213.

Application limits within the scope of ÖVGW certification:

Max. Operating temperature 65 °C, max. operating pressure 10 bar




Technically possible area of application:

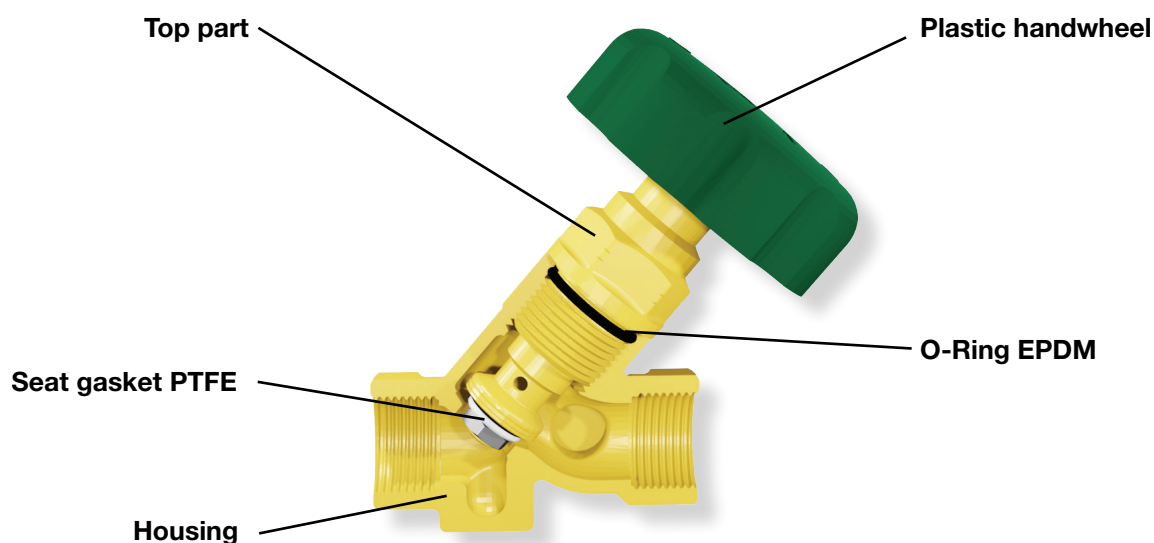
Max. Operating temperature 85 °C, max. operating pressure 20 bar

DN 15 - DN 50: Two 1/4" holes and 1 screw plug 2 **0273** 09 screwed on

DN 65 - DN 80: Two 3/8" holes and 1 screw plug 2 **0273** 00 screwed on

Filling and drain valves 2 **0275** 0x or 2 **0276** 0x must be ordered separately.

 <p>W1.332</p>  <p>☑ STRÖMAX-AWD Shut-off valve in angle seat design 4125-AWD</p>		Min. l/s	DN	Order number
		0,50	15	2 4125 71
		1,00	20	2 4125 72
		1,75	25	2 4125 73
		3,00	32	2 4125 74
		4,00	40	2 4125 75
		6,75	50	2 4125 76
		11,00	65	2 4125 77
		16,00	80	2 4125 78



☑ The ÜA installation mark - proof of suitability for drinking water

With the „Regulation of the Austrian Institute of Construction Engineering on the ÖA list of building materials“ of 15 March 2019, the Austrian legislator has Austrian legislator clearly stipulated that pipes, fittings and building fittings in the drinking water supply within a building between the transfer point and the tapping point must comply with ÖNORM series B 5014 1-3.

The drinking water suitability test in accordance with ÖNORM B 5014 1-3 „Sensory and chemical requirements and testing of materials in the drinking water sector“ ensures that all materials used are hygienically flawless. This means that these materials do not have any negative impact on drinking water and are therefore not harmful to health.

A registration certificate is issued by a registration body to prove that a product complies with the provisions of the Building Materials List ÖA and thus to prove its suitability for drinking water. The drinking water product may then bear the ÜA installation mark.

☑ Shut-off valves for drinking water systems with non-rising stem, without drain plugs




Equipped with the ÜA installation mark and ÖVGW tested and registered. Dead space free. Brass body with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Non-rising stem, stem sealed by elastic double O-ring, upper part sealed in the body by O-ring seal. All materials are approved for drinking water. Flow rate class VB, fitting group I, ÖNORM EN 1213.

Limits of use within the scope of ÖVGW certification:

Max. Operating temperature 65 °C, max. operating pressure 10 bar

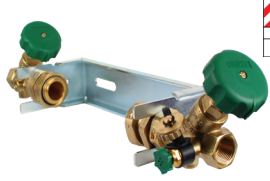
Technically possible area of application:

Max. Operating temperature 85 °C, max. operating pressure 20 bar

  ☑ STRÖMAX-WD Shut-off valve in angle seat design 4125-WD		Min. l/s	DN	Order number
		0,50	15	2 4125 61
		1,00	20	2 4125 62
		1,75	25	2 4125 63
		3,00	32	2 4125 64
		4,00	40	2 4125 65
		6,75	50	2 4125 66
		11,00	65	2 4125 67
		16,00	80	2 4125 68

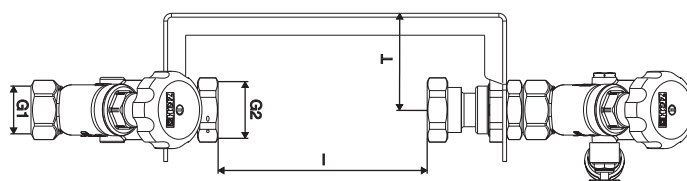
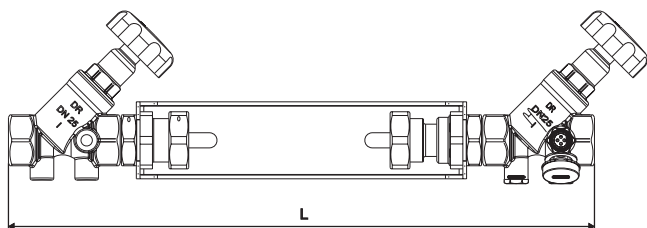
Water meter set

The HERZ water meter set combines the functionalities of shutting off upstream of the water meter, sealability of the union nuts to the water meter, simple and stress-free installation of the water meter by means of length compensation as well as backflow prevention, shut-off and draining downstream of the water meter. This corresponds to the HERZ water meter set consists of a galvanised steel bracket on which a shut-off valve in accordance with EN 1213 is mounted upstream of the meter and a backflow preventer with shut-off valve in accordance with EN 1717 is mounted downstream of the meter. A length equaliser ensures stress-free installation of a standard water meter (in accordance with ÖNORM B 2531). The meter is installed with a flat seal and can be mounted vertically or horizontally using the supplied screw fittings. The union nut on the inlet side is prepared for sealing. Max. Operating pressure: 16 bar; Max. operating temperature: 85 °C. Fastening material is included.

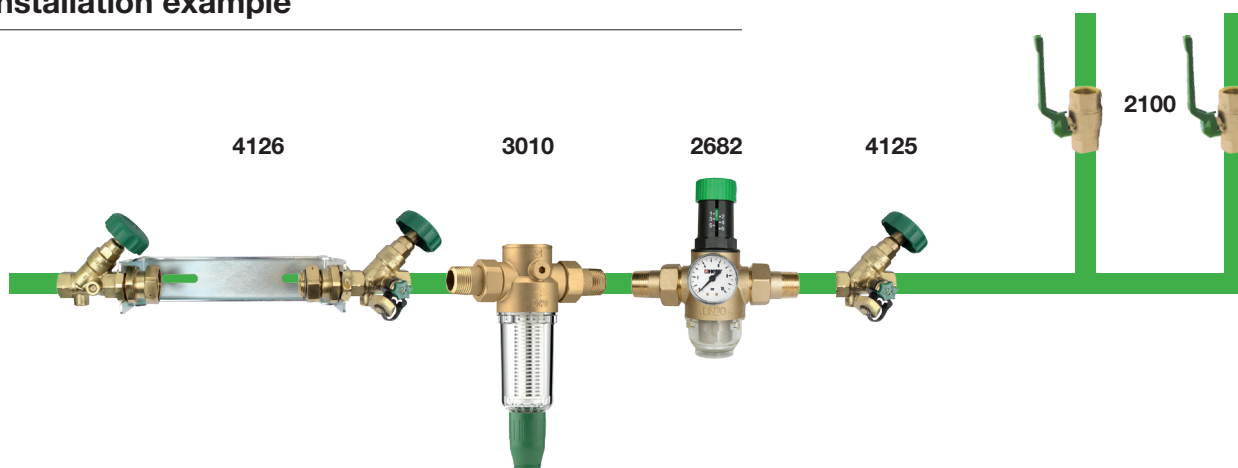
 HERZ Water meter set ÖNORM B 2531	Min. l/s	DN	G1	G2	I [mm]		T [mm]	L [mm]	Order number
	1,00	20	¾"	1 ¼"	175	+9 -9	75 - 95	440	2 4126 62
	1,75	25	1"	1 ¼"	175	+9 -9	75 - 95	470	2 4126 63
	3,00	32	1 ¼"	1 ¼"	175	+9 -9	75 - 95	509	2 4126 64
	4,00	40	1 ½"	2"	300	+18,5 -15	120 - 140	666	2 4126 65
	6,75	50	2"	2"	300	+18,5 -15	119 - 139	733	2 4126 66

Materials

- ✓ Housing: dezincification-resistant brass suitable for drinking water hygiene according to the current UBA list and the 4MS list
- ✓ Gasket: physiologically harmless materials
- ✓ Spring backflow preventer: stainless steel
- ✓ Bracket: galvanised sheet steel incl. earthing screw



Installation example



☑ Safety fittings for drinking water installations - Safe is safe

The backflow, backsiphoning or backpressure of non-drinking water in drinking water systems must be avoided at all costs. Appropriate safety devices must be used for this hygienic protection of drinking water. Standards EN 1717 and DIN 1988-100 define the standards for the design and installation of safety devices in drinking water installations: EN 1717 - Protection of drinking water against contamination in drinking water installations and general requirements for safety devices to prevent drinking water contamination by backflow. DIN 1988-100 - Technical rules for drinking water installations - Part 100: Protection of drinking water, maintenance of drinking water quality.

Any negative influence on or alteration of drinking water must be avoided at all costs. On the one hand, this applies to the materials with which drinking water comes into contact. On the other hand, it is important to prevent drinking water from coming into contact with non-drinking water. HERZ offers many safety fittings in accordance with EN 1717, which are presented in the brochure „Safety fittings for drinking water installations“.

☑ Shut-off valves with backflow preventer

Angle seat shut-off valve with controllable backflow preventer type EA to EN 1717, prevents backpressure or backsiphonage in drinking water installations in accordance with standards, can be used to protect fluid categories 1 and 2, fitted with the ÜA installation mark. Brass housing with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Non-rising stem, stem sealed by elastic double O-ring, upper part sealed in the body by O-ring seal. All materials are approved for drinking water.



Flow rate class VB, fitting group I, ÖNORM EN 1213.

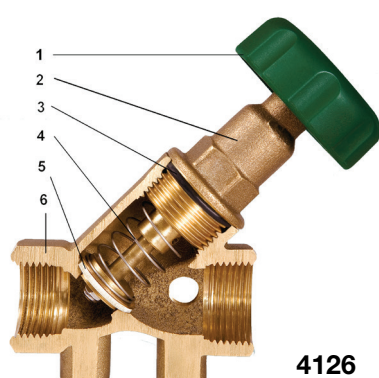
Max. operating temperature 85 °C, max. operating pressure 16 bar

DN 15 - DN 20: Three 1/4" holes, all sealed with screw plug 2 **0273** 09

DN 25 - DN 50: Four 1/4" holes, all sealed with screw plug 2 **0273** 09

Filling and drain valves 2 **0275** 0x or 2 **0276** 0x must be ordered separately.

  <p>☑ HERZ-Rückflussverhinderer</p>	Min. l/s	DN	Order number
	0,42	15	2 4126 01
	1,00	20	2 4126 02
	1,75	25	2 4126 03
	3,00	32	2 4126 04
	4,00	40	2 4126 05
	6,75	50	2 4126 06



4126

1. plastic handwheel
2. upper part
3. o-ring EPDM
4. spring check valve
5. seat seal PTFE
6. valve body

☑ Shut-off valves for drinking water systems with rising stem, with bores

Fitted with the ÜA installation mark and ÖVGW tested and registered. Brass body with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Rising stem, stem sealed by double O-ring, upper part sealed in the body by O-ring seal, all materials are approved for drinking water. Flow rate class VB, fitting group I, ÖNORM EN 1213.

Limits of use within the scope of ÖVGW certification:

Max. Operating temperature 65 °C, max. operating pressure 10 bar




Technically possible area of application:

Max. Operating temperature 85 °C, max. operating pressure 20 bar

DN 15 - DN 50: Two 1/4" holes and 1 screw plug 2 **0273** 09 screwed on

DN 65 - DN 80: Two 3/8" holes and 1 screw plug 2 **0273** 00 screwed on

Filling and drain valves 2 **0275** 0x or 2 **0276** 0x must be ordered separately.

 <p>W1.331</p>  <p>☑ STRÖMAX-AW Shut-off valve in angle seat design 4115-AW</p>		Min. l/s	DN	Order number
		0,50	15	2 4115 11
		1,00	20	2 4115 12
		1,75	25	2 4115 13
		3,00	32	2 4115 14
		4,00	40	2 4115 15
		6,75	50	2 4115 16
		11,00	65	2 4115 17
		16,00	80	2 4115 18

☑ Shut-off valves for drinking water systems with rising stem, without drain plugs


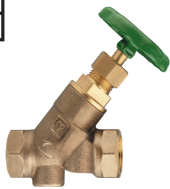

Fitted with the ÜA installation mark and ÖVGW tested and registered. Brass body with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Rising stem, stem sealed by double O-ring, upper part sealed in the body by O-ring seal, all materials are approved for drinking water. Flow rate class VB, fitting group I, ÖNORM EN 1213.

Limits of use within the scope of ÖVGW certification:

Max. Operating temperature 65 °C, max. operating pressure 10 bar

Technically possible area of application:

Max. Operating temperature 85 °C, max. operating pressure 20 bar

 <p>W1.331</p>  <p>☑ STRÖMAX-W Shut-off valve in angle seat design 4115-W</p>		Min. l/s	DN	Order number
		0,25	10	2 4115 00
		0,50	15	2 4115 01
		1,00	20	2 4115 02
		1,75	25	2 4115 03
		3,00	32	2 4115 04
		4,00	40	2 4115 05
		6,75	50	2 4115 06
		11,00	65	2 4115 07
		16,00	80	2 4115 08

☑ Shut-off valves for drinking water systems, straight-seat type, without drain plugs

Equipped with the ÜA installation mark and ÖVGW tested and registered. Dead space free. Brass housing with drinking water approval. Rising spindle, spindle seal with double O-ring, all materials are approved for drinking water.


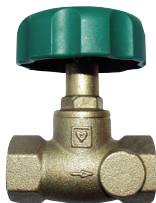




Volume flow class VA, fitting group I, ÖNORM EN 1213.

Limits of use within the scope of ÖVGW certification:

Max. Operating temperature 65 °C, max. operating pressure 10 bar

Technically possible area of application:

Max. Operating temperature 85 °C, max. operating pressure 10 bar

   <p>☑ STRÖMAX-W Shut-off valve Socket x socket</p>	Min. l/s	DN	Order number
	0,20	15	2 4215 41
	0,40	20	2 4215 42
	0,70	25	2 4215 43
	1,20	32	2 4215 44
	1,60	40	2 4215 45
	2,70	50	2 4215 46
   <p>☑ HERZ Shut-off valve 4215-AW Socket x male thread</p>	0,20	15	2 4215 61



☑ Shut-off drain plugs

Equipped with the ÜA installation mark and ÖVGW tested and registered. Dead space free. Brass body with drinking water approval. Threaded sockets on both sides in accordance with ISO 7/1. Rising stem, stem seal with double O-ring, sealing materials are approved for drinking water. Flow rate class VA, fitting group I, ÖNORM EN 1213.





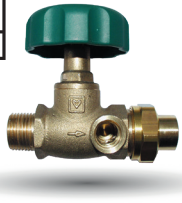


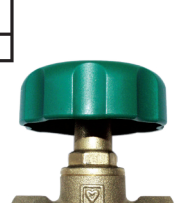


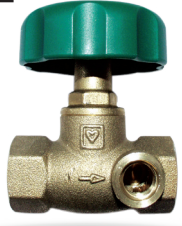

Limits of use within the scope of ÖVGW certification:






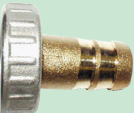

Max. Operating temperature 65 °C, max. operating pressure 10 bar

Technically possible area of application:

Max. Operating temperature 85 °C, max. operating pressure 10 bar

Filling and draining valves 2 **0275** 09 or 2 **0276** 09 must be ordered separately.

 		Min. l/s	DN	Pipe Ø mm	Order number
		0,20	15	15	2 4215 11
 		0,40	20	18	2 4215 12
		0,20	15	15	2 4215 21
 		0,40	20	18	2 4215 22
		0,70	25	22	2 4215 23
		0,20	15	-	2 4215 31
 		0,40	20	-	2 4215 32
		0,70	25	-	2 4215 33
		1,20	32	-	2 4215 34
		1,60	40	-	2 4215 35
		2,70	50	-	2 4215 36

☑ Accessories		Dim.	Order number
	Screw plug yellow version, dezincification-resistant brass brass with O-ring seal and external hexagon.	1/4	2 0273 09
		3/8	2 0273 00
 	Drain valve Drain valve with handle, yellow version, TW.	1/4	2 0275 09
		3/8	2 0275 00
 	Drain valve with hose connection G 3/4", TW cap green, yellow version, hose connection 1 6206 01 must be ordered separately.	1/4	2 0276 09
		3/8	2 0276 00
	Hose connection for drain valve Nut and hose nozzle.	1/2	1 6206 01
	Sampling valve according to ÖNORM B 5019, ISO 19458, DIN 38402, DVGW worksheet W 551 and VDI 6023, low splash water. Max. operating pressure 16 bar, max. permissible operating temperature 85 °C	1/4	2 0277 09
		3/8	2 0277 00
	Sampling valve as before, but long version for thermally insulated fittings, so that the sampling valve is led out of the thermal insulation.	1/4	2 0277 19
		3/8	2 0277 10

☑ Spare parts

Spare parts such as bonnets and handwheels are available for all shut-off valves in this brochure.

▶ HERZ Armaturen GesmbH - Wien

in Herz Armaturen Ges.m.b.H.

herz.armaturen

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Weil's ohne  nicht geht

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