



hawle



Hawle gas valves and fittings for
the hydrogen grid infrastructure

Explanatory notes on the brochure

General media information in the product descriptions may apply subject to certain restrictions. Kindly always state the relevant media in your given application when you place an order or submit a query.

If you have any further questions about our products, please do not hesitate to contact our employees of the application engineering division at any time.



Products for use in connection with hydrogen (in accordance with DVGW [German Association for Gas and Water] Technical Rule G 260)



In general, products sold by us are subject to the statutory warranty period of 2 years from the date of delivery at Hawle. Due to the high quality of Hawle products, we are able to offer you an extended warranty of 5 years for products manufactured by us. For more details, please see our website at: www.hawle.de/en/warranty-extension



For current information, please see our Hawle app. Further information is available at www.hawle.de/en/downloads/hawle-app

Hawle gas valves for hydrogen



Hydrogen is an important energy carrier of the future and is part of the energy revolution towards a more sustainable supply of energy. With our gas valves for hydrogen, we want to make a contribution towards a hydrogen network infrastructure.

The following valves — gate valves, service valves and fittings — marked with our symbol for hydrogen are suitable for use with natural gas, mixtures of natural gas and hydrogen, and pure hydrogen gas (DVGW [German Association for Gas and Water] Technical Rule G 260, 2nd and 5th gas families).



Gas gate valves for hydrogen

Hawle gas gate valves for hydrogen are provided with a resilient seated wedge made of cast iron (GJS-400) with vulcanized NBR elastomer as a shut-off device. Hawle gas gate valves for hydrogen are hallmarked by their ease of operation and long service life.

Gas service valves for hydrogen

The Hawlinger® service valve with an HA-WELD® electrofusion pipe saddle is available as a weld-on Hawlinger in a ZAK® or threaded version for use with hydrogen. The various models are suitable for welding onto PE pipes.

All Hawle service valves type Hawlinger® are provided with a knife gate of stainless steel driven via a slotted link gear as a shut-off device. The knife gate moves horizontally inside a housing against fixed metal stops, exposed to little wear. Opening or closing the bore requires merely a half-turn (180°).

Gas fittings for hydrogen

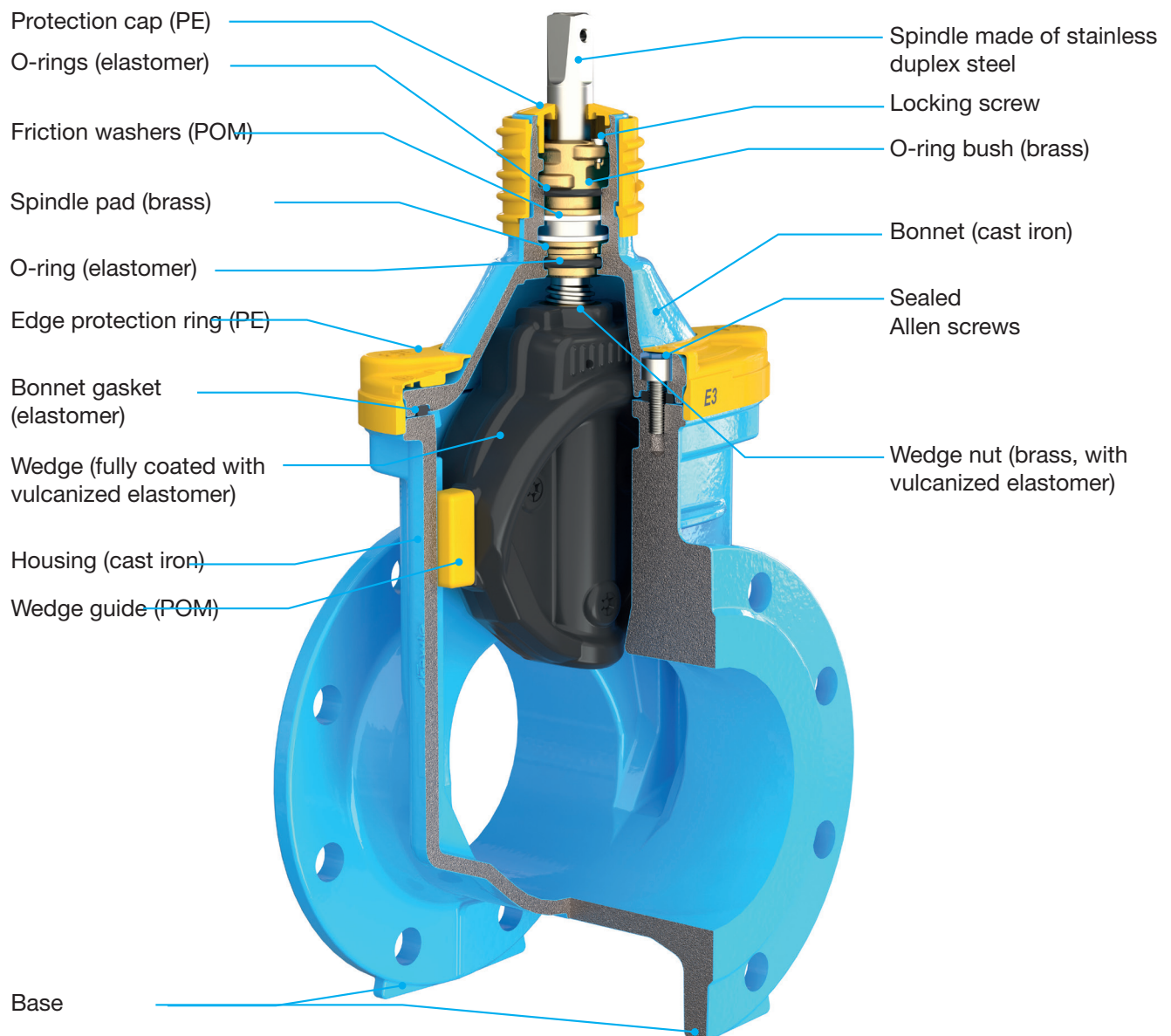
Suitable ZAK® fittings with a PE-end for welding for weld-on Hawlingers with a ZAK® socket complement our range of hydrogen products.



Technical details

- Resilient seated gate valve with fully vulcanized wedge
- O-ring bush with double bayonet connection
- Spindle made of stainless duplex steel with rolled thread and smooth-rolled sealed slip surface
- Fully vulcanized wedge and wedge nut
- Large-scale edge protection ring
- Easy operation due to wedge guide of wear-free plastic
- Housing made of GJS-400, Hawle epoxy powder coated
- Fully protected against corrosion
- Pinless fixing of extension spindle due to round threaded connection

Structure of gas gate valve "E3"



Gas gate valves for hydrogen



400-00G
Flanged gate valve "E3",
Face-to-face length, basic series
14 according to DIN EN 558-1



470-00G
Resilient seated gate valve "E3"
Face-to-face length, basic series
15 according to DIN EN 558-1



405-00G
Valve for PE fusion "E3"

Maximum operating pressure

No.:	Description				Nominal diameter
Maximum operating pressure					
No.:	Description				Nominal diameter
400-00G	Flanged gate valve "E3", Face-to-face length, basic series 14 according to DIN EN 558-1"	16 bar			DN 50, 65, 80, 100, 125, 150*
470-00G	Resilient seated gate valve "E3" Face-to-face length, basic series 15 according to DIN EN 558-1	16 bar			DN 50, 65, 80, 100, 125, 150*
405-00G	Valve for PE fusion "E3"	SDR 11: 10 bar			DN 50, 65, 80, 100, 125, 150*

*additional dimensions (DN) in preparation

Gas service valves for hydrogen



235-00G
Weld-on Hawlinger with
vertical internal thread outlet



235-02G
Weld-on Hawlinger with
horizontal internal thread outlet,
90° angle to pipe direction



239-00G
Weld-on Hawlinger with a
vertical ZAK® socket



239-01G
Weld-on Hawlinger with a
horizontal ZAK® socket
in pipe direction



239-02G
Weld-on Hawlinger
with horizontal ZAK® socket
90° angle to pipe direction

Maximum operating pressure

No.:	Description		Nominal diameter
235-00G	Weld-on Hawlinger with vertical internal thread outlet	5 bar	Pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm Outlet: Internal thread 1"-1 1/2"
235-02G	Weld-on Hawlinger with horizontal internal thread outlet, 90° angle to pipe direction	5 bar	Pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm Outlet: Internal thread 1"-1 1/2"
239-00G	Weld-on Hawlinger with a vertical ZAK® socket	10 bar	Pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm Outlet: ZAK 34, 46
239-01G	Weld-on Hawlinger with a horizontal ZAK® socket in pipe direction	10 bar	Pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm Outlet: ZAK 34, 46
239-02G	Weld-on Hawlinger with horizontal ZAK® socket 90° angle to pipe direction	10 bar	Pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm Outlet: ZAK 34, 46

Gas valves and fittings for hydrogen



618-00G
ZAK® PE-end



647-04G
Elbow 90° with ZAK® spigot end
and PE-end

Maximum operating pressure			
No.:	Description		Nominal diameter
618-00G	ZAK® PE-end	10 bar	d 32, 40, 50, 63 mm ZAK 34, 46
647-04G	Elbow 90° with ZAK® spigot end and PE-end	10 bar	d 32, 40, 50, 63 mm ZAK 34, 46

Variant 1 double-spacing	Variant 2 double-spacing	Variant 3 double-spacing
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We deliver based on our familiar General Terms and Conditions of Sale (GTC), which are available for downloading.
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