Hawle gas valves and fittings for the hydrogen network infrastructure

05/2024

Explanations

The scope of medium can be restricted within the product data sheets. In case of any inquiry or order point out the medium of each project.

In case of any questions, don´t hesitate to contact our application engineers.

	Products for use with hydrogen (in conformity with DVGW [German Association for Gas and Water] G 260)
	In general our products are subject to the statutory warranty period of two years from the day of delivery by Hawle. Due to the high quality of Hawle products we are able to offer you an extended warranty period of 5 years for our products. Further information: www.hawle.de/en/warranty-extension
	You can receive the latest information via our free newsletter. You can find the registration at www.hawle.de/newsletter

Hawle gas valves and fittings for hydrogen

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

The following valves and fittings - gate valves, service valves and fittings - that are marked with our symbol for hydrogen are suitable for use with natural gas, mixtures of natural gas and hydrogen and with 100 vol. % hydrogen (DVGW [German Association for Gas and Water] G 260, 2nd and 5th gas family).

Gas gate valves for hydrogen

In Hawle gas gate valves for hydrogen, cutoff takes place via a cast iron resilient seated wedge (GJS-400) with an elastomer NBR vulcanization. Hawle gas gate valves for hydrogen are distinguished by ease of operation and a long useful life.

Gas service valves for hydrogen

The Hawlinger® service valve with HA-WELD® weld clamp is available as a weld-on Hawlinger in ZAK®- or thread version for hydrogen applications. The various versions are suitable for welding on to PE pipes.

In all Hawle service valves of the Hawlinger® type, cutoff is via a gate-driven stainless steel shut-off blade. The shut-off blade is moved horizontally within a housing in a low-wear manner against fixed metal stops. Opening and closing the bore simply requires a half-turn (180°).

Gas fittings for hydrogen

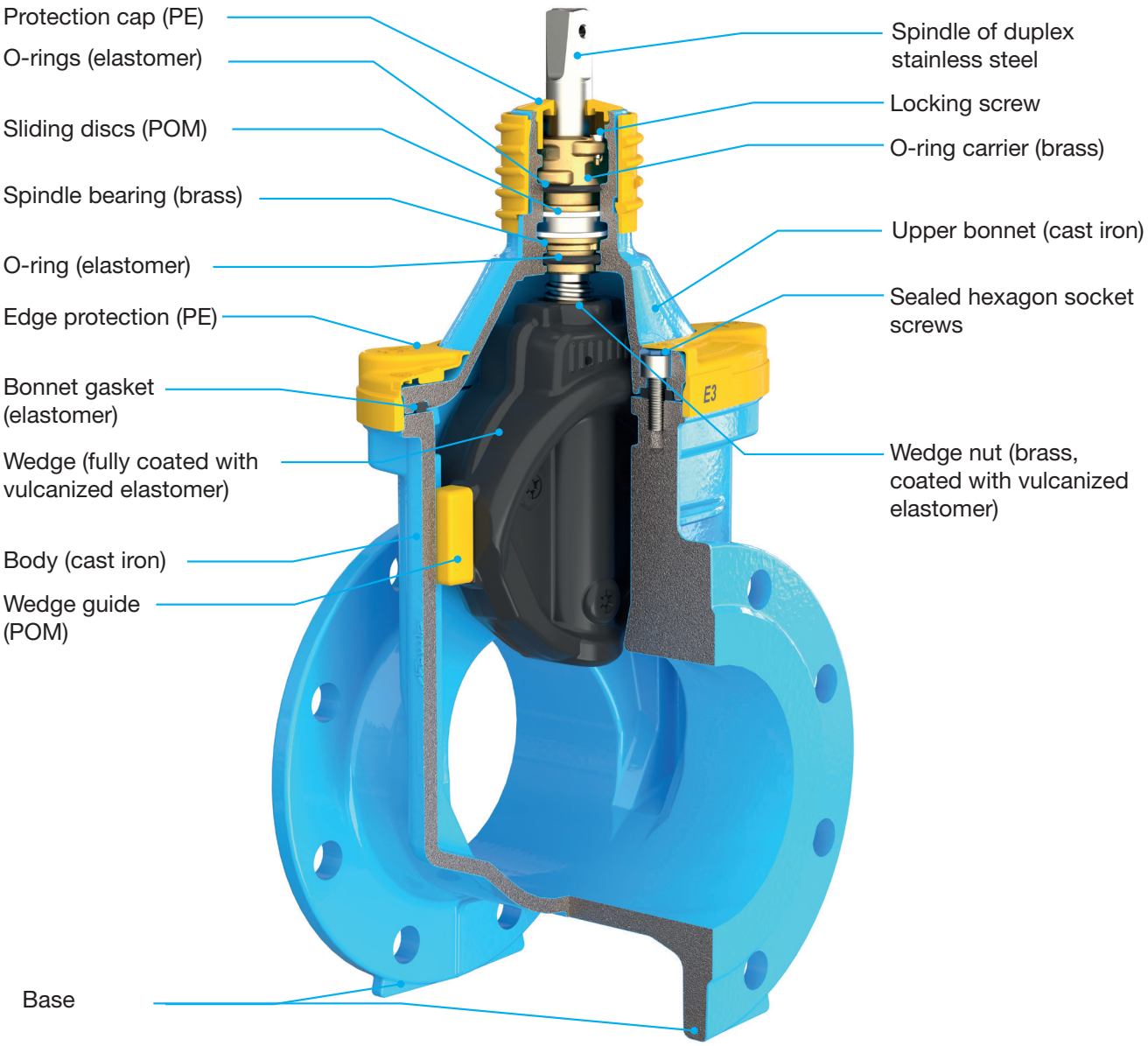
The appropriate ZAK® fittings with PE-end for welding for weld-on Hawlinger with ZAK® socket complete our hydrogen range.

Gas gate valves for hydrogen

Technical Features

- Resilient-seated gate valve with fully vulcanized wedge
- O-ring carrier with double bayonet connection
- Collar spindle made of duplex stainless steel with rolled thread and flat-rolled anti-friction surface
- Wedge and wedge nut fully vulcanized
- Extended edge protection
- Smooth operation due to centrally located wedge guide made of durable plastic
- Body made of GJS-400 with Hawle epoxy powder coating
- 100% corrosion protection
- Pinless fastening of the extension spindle by means of a round-thread connection

Design of the “E3” gate valve for gas



Gas gate valves for hydrogen

400-00G
Flanged gate valve “E3“, short, standard series 14 acc. to DIN EN 558-1

470-00G
Flanged gate valve “E3“, long standard series 15 acc. to DIN EN 558-1

405-00G
Gate valve “E3“ with PE fusion ends

No.:	Description	Maximum operating pressure	Nominal diameter
400-00G	Flanged gate valve “E3“, short, face-to-face dimension: standard series 14 acc. to DIN EN 558-1“	16 bar	DN 50, 65, 80, 100, 125, 150*
470-00G	Flanged gate valve „E3“, long face-to-face dimension: standard series 15 acc. to DIN EN 558-1	16 bar	DN 50, 65, 80, 100, 125, 150*
405-00G	Gate valve “E3“ with PE fusion ends	SDR 11: 10 bar	DN 50, 65, 80, 100, 125, 150*

* further nominal sizes in preparation

Gas service valves for hydrogen

235-00G
Hawlinger with upper vertical female thread outlet and lower electrofusion saddle

235-02G
Hawlinger with upper horizontal female thread outlet 90° to pipe direction and lower electrofusion saddle

239-00G
Hawlinger with upper vertical ZAK® socket and lower electrofusion saddle

239-01G
Hawlinger with upper horizontal ZAK® socket in pipe direction and with lower electrofusion saddle

239-02G
Hawlinger with upper horizontal ZAK® socket 90° to pipe direction and lower electrofusion saddle

No.:	Description	Maximum operating pressure	Details
235-00G	Hawlinger with upper vertical female thread outlet and lower electrofusion saddle	5 bar	pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm outlet: IG 1“-1 1/2“
235-02G	Hawlinger with upper horizontal female thread outlet 90° to pipe direction and lower electrofusion saddle	5 bar	pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm outlet: IG 1“-1 1/2“
239-00G	Hawlinger with upper vertical ZAK® socket and lower electrofusion saddle	10 bar	pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm outlet: ZAK 34, 46
239-01G	Hawlinger with upper horizontal ZAK® socket in pipe direction and with lower electrofusion saddle	10 bar	pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm outlet: ZAK 34, 46
239-02G	Hawlinger with upper horizontal ZAK® socket 90° to pipe direction and lower electrofusion saddle	10 bar	pipe: d 63, 90, 110, 125, 160, 180, 200, 225 mm outlet: ZAK 34, 46

Gas fittings for hydrogen

618-00G
ZAK® PE fusion end

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

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

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