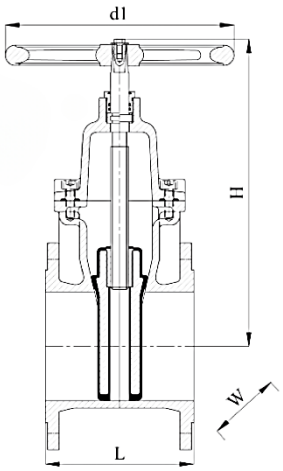
RESILIENT SEATED GATE VALVE

EN 558-1 SERIES 14 (DIN 3202 - F4)

Description: Resilient Seated Gate Valves, engineered for streamlined flow, effortlessly handle debris like sand and small stones, guaranteeing uninterrupted performance. These valves uniquely feature an elite rubber compound that envelops any contaminants during the closing process, which are subsequently expelled upon valve reopening. This mechanism allows the rubber surface to restore to its initial condition, ensuring a watertight seal.



Material Specification

Parts	Main Materials	Optional Materials
Body **Bonnet** **Wedge**	Ductile Iron	Carbon Steel Stainless Steel Nickel Aluminum Bronze
Stem	X20Cr13	SS 304, SS 316, NAB
Nuts	Bronze	Brass, SS 304, SS 316, NAB
Rings	Bronze	Brass, SS 304, SS 316, NAB
Seals	EPDM	NBR
Fasteners	8:8 (Galv.)	SS 304, SS 316
Handwheel	Cast Iron	Ductile Iron

Notes:

1. Different flange drillings are available, including ISO, EN, ANSI, and others.
2. The standard operating temperature range is -10°C to +80°C.
3. All RAL Colors are available.
4. Potable water certified coating is available.
5. Both thermoset and thermoplastic coatings are available.

Application:

Gate Valves are used for isolation purposes and provide drip tight sealing once they are closed. When open, they provide undisturbed water flow. Gate Valves are not suitable for regulation purposes.

Features:

- **Efficient Operation:** Features a rolled stem design that ensures low operating torque values.
- **Accessory Availability:** Gearbox and Actuator accessories can be provided as per request.
- **Versatile Installations:** Ideal for above-ground or subterranean installations, complemented with accessories like handwheel, chainwheel, fixed and telescopic extension spindle, and surface box.
- **Customization:** Optional wedge guide is accessible for specific sizes upon request.

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Stem and Wedge Design:

The stem of the Gate Valve is meticulously constructed from a singular piece of stainless steel, utilizing roll threading to create smooth threads, ensuring minimal torque operation and limited wear. The EPDM-vulcanized wedge is subjected to thorough examination for Compression Set and Bonding Testing in compliance with EN 681-1. The valve promises even lower torque values with the provision of optional wedge guides.

Coating Options:

We provide options for both thermoset and thermoplastic coatings, with an additional UV protection coating available on request. The coating standards can attain up to C5-I High (H, surpassing 15 years) in accordance with EN ISO 12944-1. The quality of the coating is validated through advanced testing procedures, which include Dew Point, Blast Surface Roughness, Particle Measurement, Coat Thickness, and more.

Certifications and Testing:

Our Resilient Seated Gate Valves have received WRAS approval for applications involving potable water and adhere to the EN 1171 standard. With our dedicated in-house hydraulic laboratory, we perform extensive testing as specified in EN 1074-2, encompassing cycle, bending, and torque testing. We offer customer demonstrations upon request.

Functionality and Operation:

Our Gate Valves are designed with a rotating, non-rising, rolled, mono-block stem that conveys the handwheel rotation to the wedge. The bonnet nut secures the stem against axial movement, and with the rubber-vulcanized wedge guided in a precast groove, the valve ensures steady water flow when completely open, and a leak-proof seal when closed.

DIMENSIONS (mm)

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
D1	200	200	200	200	250	250	315	315	315	500	500	500	500	500	500
Height	225	230	255	285	325	375	425	520	590	665	744	980	1115	1190	1340
Width	200	200	200	200	250	250	315	315	375	460	520	583	680	756	886
Length	140	150	170	180	190	200	210	230	250	270	290	310	330	350	390
Weight (kg)	9	10	15	17	25	34	45	76	100	135	150	247	350	495	665

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