



F4 RESILIENT SEATED GATE VALVE

Technical Catalog

DGV10 Serie



Product Description

DGV10 F4 Resilient Seated Gate Valves are designed to provide reliable sealing and flow control in potable water supply, wastewater management and various industrial applications. These valves operate with a rising stem mechanism, and the wedge is fully encapsulated with high-quality elastomer to ensure a tight and leak-free shut-off.

The valve body is made of durable ductile iron and the elastomer-coated wedge delivers long-lasting and dependable sealing performance. The threaded stem enables the gate to move vertically, allowing smooth and unobstructed flow regulation. In the fully closed position, the elastomer coating ensures complete isolation of the fluid, effectively eliminating any risk of leakage.

With its robust construction, corrosion resistance and maintenance-free design, the DGV10 F4 Resilient Seated Gate Valve is an ideal solution for municipal water networks, wastewater treatment facilities and industrial piping systems.

Technical Specifications

Parameter	Specification
Nominal Diameter (DN)	DN 40 – DN 800
Nominal Pressure (PN)	PN 6, PN 10, PN 16, PN 25, PN 40
Operating Temperature	-40 °C to +110 °C
Design Standards	EN 1074
Face-to-Face Dimensions	EN 558 Series 14, DIN 3202 F4
Connection Standard	EN 1092-2 (ISO 7005-2) Flanged
Coating	Electrostatic Epoxy-Thermoplastic Powder Coating
Testing Standard	EN 12266-1

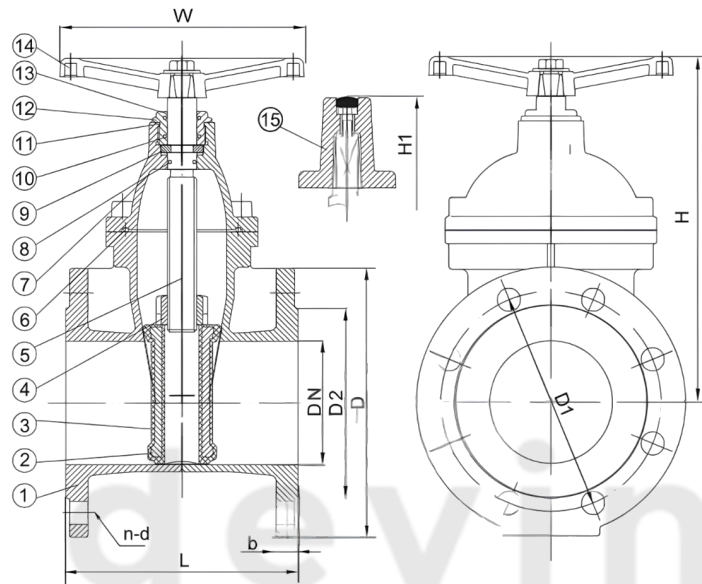
Areas of Application

1. Water and wastewater systems
2. Chemical industry
3. Food and beverage industry
4. Pharmaceutical production
5. Oil and gas pipelines
6. HVAC systems

Operation Versions

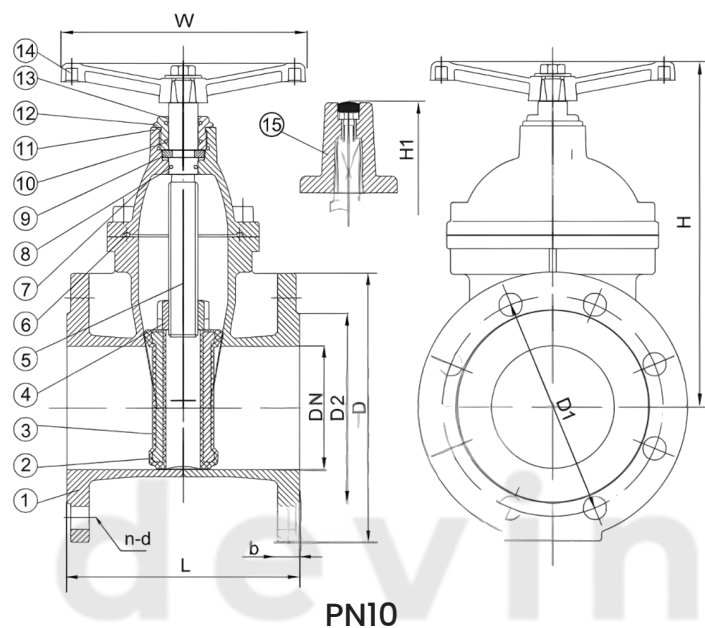
1. DVA10 Surface Box & Extension Spindle
2. DVA11 Telescopic Extension Spindle
3. DVA12 Electric Actuators
4. DVA13 Pneumatic Actuators
5. DVA14 Gear Box
6. DVA15 HandWheel

Material Specifications



No	Part Name	Material
1	Body	Ductile Iron GGG40
2	Wedge	Ductile Iron GGG40
3	Wedge Coating	EPDM / NBR / FKM
4	Wedge Nut	Brass MS58
5	Stem	Stainless Steel X20Cr13
6	Bonnet Gasket	EPDM / NBR / FKM
7	Bonnet	Ductile Iron GGG40
8	O-Ring	EPDM / NBR / FKM
9	Stem Collar	Brass MS58
10	O-Ring	EPDM / NBR / FKM
11	O-Ring	EPDM / NBR / FKM
12	Stuffing Nut	Brass MS58
13	Dust Guard	EPDM
14	Handwheel	Ductile Iron GGG40
15	Stem Cap	Ductile Iron GGG40

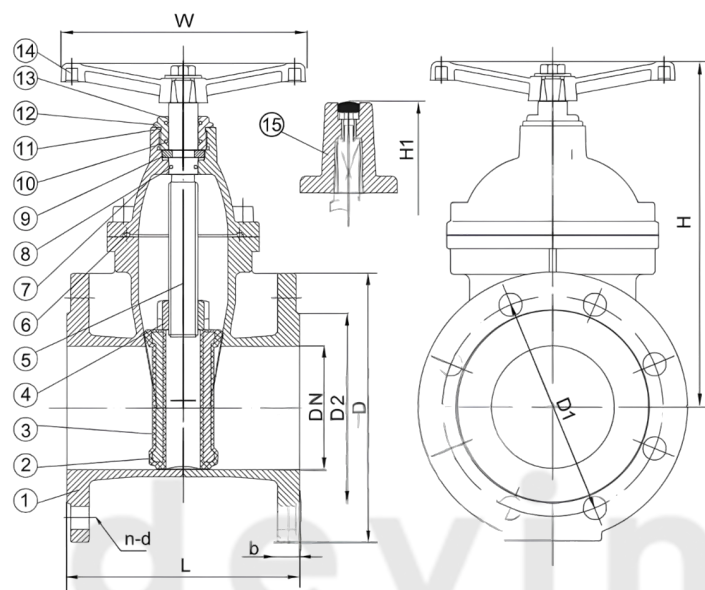
Dimensions



DN	D	D1	D2	b	n-d	L	H	Weight
40	150	110	84	19	19x4	140	237	9
50	165	125	99	19	19x4	150	237	10
65	185	145	118	19	19x4	170	271	15
80	200	160	132	19	19x8	180	316	18
100	220	180	156	19	19x8	190	365	22
125	250	210	184	19	19x8	200	396	30
150	285	240	211	19	23x8	210	435	40
200	340	295	266	20	23x8	230	572	69
250	395	350	319	22	23x12	250	671	90
300	445	400	370	24,5	23x12	270	765	105
350	505	460	429	24,5	23x16	290	935	140
400	565	515	480	24,5	28x16	310	1045	300
450	615	565	530	25,5	28x20	330	1144	330
500	670	620	582	26,5	28x20	350	1144	350
600	780	725	682	30	31x20	390	1375	630
800	1050	950	905	33	34x24	470	1750	1200

All dimensions are in millimetres (mm).

Dimensions

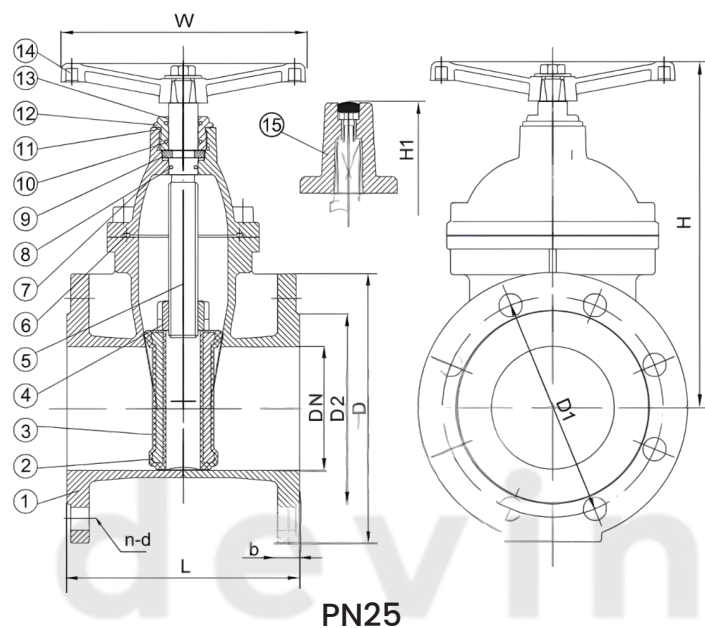


PN16

DN	D	D1	D2	b	n-d	L	H	Weight
40	150	110	84	19	19x4	140	237	9
50	165	125	99	19	19x4	150	237	10
65	185	145	118	19	19x4	170	271	15
80	200	160	132	19	19x8	180	316	18
100	220	180	156	19	19x8	190	365	22
125	250	210	184	19	19x8	200	396	30
150	285	240	211	19	23x8	210	435	40
200	340	295	266	20	23x12	230	572	69
250	405	355	319	22	28x12	250	671	90
300	460	410	370	24,5	28x12	270	765	105
350	520	470	429	26,5	28x16	290	935	140
400	580	525	480	28	31x16	310	1045	310
450	640	585	548	30	31x20	330	1144	350
500	715	650	609	31,5	34x20	350	1144	370
600	840	770	720	36	37x20	390	1375	650
800	1025	950	900	38	40x24	470	1750	1250

All dimensions are in millimetres (mm).

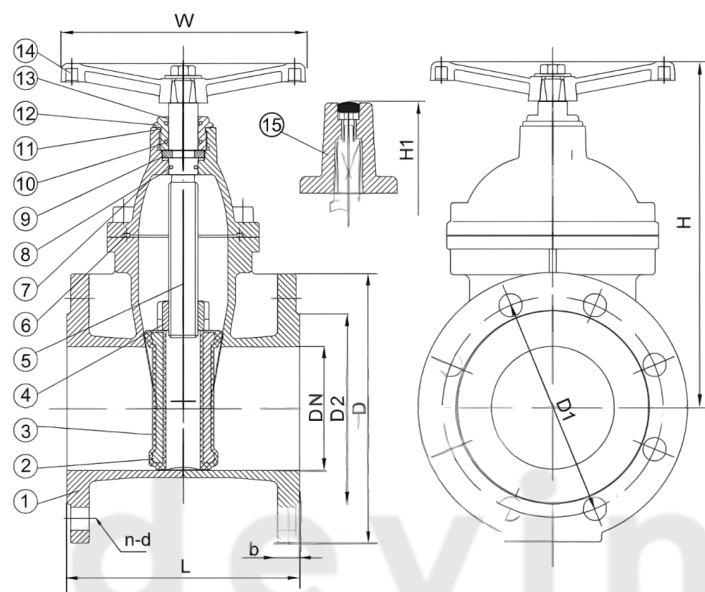
Dimensions



DN	D	D1	D2	b	n-d	L	H	Weight
40	150	110	84	19	19x4	140	237	9
50	165	125	99	19	19x4	150	237	10
65	185	145	118	19	19x8	170	271	15
80	200	160	132	19	19x8	180	316	18
100	235	190	156	19	23x8	190	365	24
125	270	220	184	19	28x8	200	396	34
150	300	250	211	20	28x8	210	435	45
200	360	310	274	22	28x12	230	572	75
250	425	370	330	24,5	31x12	250	671	100
300	485	430	389	27,5	31x16	270	765	120
350	555	490	448	30	34x16	290	935	155
400	620	550	503	32	37x16	310	1045	330
450	670	600	548	34,5	37x20	330	1144	360
500	730	660	609	36,5	37x20	350	1144	390
600	845	770	720	42	41x20	390	1375	680
800	1085	990	930	50	50x24	470	1750	1300

All dimensions are in millimetres (mm).

Dimensions



PN40

DN	D	D1	D2	b	n-d	L	H	Weight
40	150	110	84	19	19x4	140	237	9
50	165	125	99	19	19x4	150	237	10
65	185	145	118	19	19x8	170	271	15
80	200	160	132	19	19x8	180	316	18
100	235	190	156	19	23x8	190	365	24
125	270	220	184	23,5	28x8	200	396	34
150	300	250	211	26	28x8	210	435	47
200	375	320	284	30	31x12	230	572	80
250	450	385	345	34,5	34x12	250	671	100
300	515	450	409	39,5	34x16	270	765	120
350	580	510	465	44	37x16	290	935	160
400	660	585	535	48	41x16	310	1045	330
450	685	610	560	49	41x20	330	1144	360
500	755	670	615	52	44x20	350	1144	390
600	890	795	732	58	50x20	390	1375	680
800	1140	1030	970	72	58x24	470	1750	1230

All dimensions are in millimetres (mm).

Certificates

At Devinsan, we manufacture valves, fittings & fire products that are CE certified, ISO 9001:2015 compliant, GOST-R approved and WRAS certified.

These certifications confirm that our products meet international standards for quality and safety, ensuring reliable use in global markets.



CE



GOST-R



ISO 9001



ISO 10002



ISO 14001



ISO 26000



ISO 31000



ISO 45001



WRAS



WRAS

Product Features

The DGV10 F4 Resilient Seated Gate Valve is engineered for high performance, durability and long-term reliability in water, wastewater and industrial fluid systems. With its compact F4 design and full-bore structure, it ensures low pressure loss and reliable shut-off across a wide range of pressure and temperature conditions.

Key Features:

- Design Standards: Manufactured in accordance with EN 1074-2 and EN 1171, ensuring system compatibility and performance.
- Resilient Seated Wedge: The ductile iron wedge is fully encapsulated with premium elastomer (EPDM, NBR, or Viton), vulcanized to the core for optimal sealing and resistance to wear, corrosion and sediment.
- Face-to-Face Dimension: Conforms to EN 558-1 Series 14 (F4) for space-efficient installation.
- Coating: Internal and external surfaces are coated with $\geq 250 \mu\text{m}$ fusion-bonded epoxy (FBE), complying with EN ISO 12944 for corrosion resistance and potable water suitability.
- Stem Design: Entirely made of stainless steel with cold-rolled threads for strength, low torque and long-term durability.
- Body and Bonnet Material: High-strength ductile iron (GGG40 – GGG50) offers pressure and impact resistance under tough conditions.
- Sealing System: A triple O-ring stem seal prevents leakage and allows replacement without removing the valve from the line.
- Hydraulic Performance: Full-bore passage minimizes pressure loss; bubble-tight shut-off is provided in both directions.
- End Connections: Flanged ends available in PN6 / PN10 / PN16 / PN25 / PN40, suitable for various pressure class systems.
- Working Pressure: From PN0 to PN60, depending on flange configuration.
- Temperature Range: -30°C to $+200^{\circ}\text{C}$, based on sealing material and media.
- Testing: Each valve is hydrostatically tested in accordance with EN 12266-1 for shell and seat tightness.

The DGV10 F4 Resilient Seated Gate Valve is a high-performance, low-maintenance solution offering long-term, leak-free operation even under demanding conditions.

Installation & Maintenance Instructions

Installation Steps

Step 1 – Gasket Placement

Ensure the pipe flanges are clean and aligned. Place the appropriate gasket (EPDM, NBR, or other compatible material) between the valve flange and the pipeline flange. Gaskets must match the pressure class and flange dimensions.

Step 2 – Bolt Tightening

Insert the bolts through the aligned flange holes and tighten them gradually in a crisscross (star) pattern. This ensures uniform pressure and proper gasket compression. Do not over-tighten to avoid damaging the gasket or the valve body.

Step 3 – Final Assembly Check

After tightening, ensure that the valve is properly aligned with the pipeline. Visually confirm the centered position of the gaskets and even contact around the flanges. If applicable, apply torque as per the specifications for the bolt size and class.

Commissioning Note:

Slowly fill the line and check for any visible leakage. Operate the valve to its full open and closed positions to confirm smooth function.

Maintenance Guidelines

Regular Operation:

Periodically operate the valve (fully open / fully close) to prevent sediment accumulation and ensure functionality.

Seal Replacement:

If stem leakage occurs, the triple O-ring system allows replacement without removing the valve from the line. Isolate pressure before maintenance.

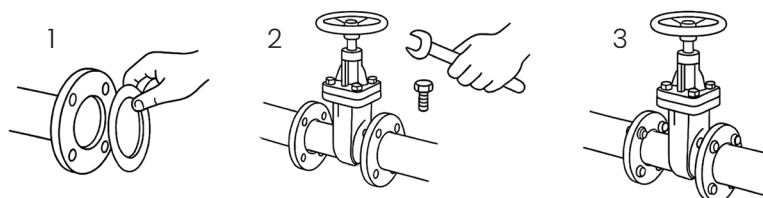
Cleaning:

External surfaces should be kept free of debris, especially around the stem area. Coating damage should be repaired with compatible epoxy coating.

Inspection Frequency:

Visual and functional inspection every 6–12 months is recommended, depending on service conditions.

Safety Note: Always depressurize the pipeline and follow lock-out procedures before performing any maintenance.





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