

**BVALVE<sup>®</sup>**

DIN Bellows sealed valves

# Why our bellows sealed valves are the best in the market?

DIN bellows sealed valves have become highly popular in steam and thermal oil markets due to the mass consumption the industry demand has generated.

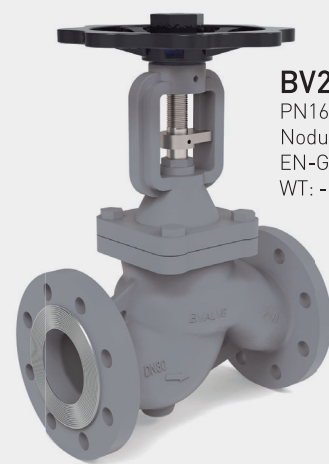
This increase in demand has led to a massive manufacturing of these valves at very low prices causing a drastic reduction in quality performance and therefore missing this valve's main target: being a maintenance free stop valve.

BVALVE however has avoided reducing our quality standards while maintaining our bellow sealed valves at **highly competitive prices**.

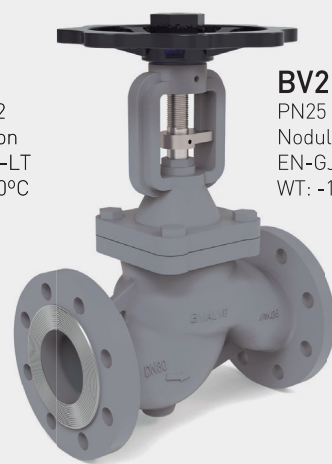
BVALVE Flow, Systems & Controls is pleased to introduce the **most technically advanced DIN/EN bellows sealed globe valve** in current market, its BV2506X.



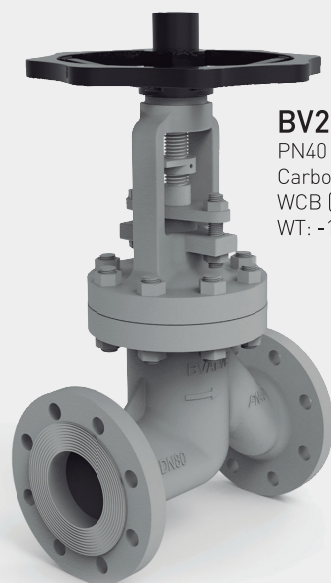
**BV25061**  
PN16 EN 1902-2  
Cast Iron  
EN-JL 1040  
WT: -10°C...+300°C



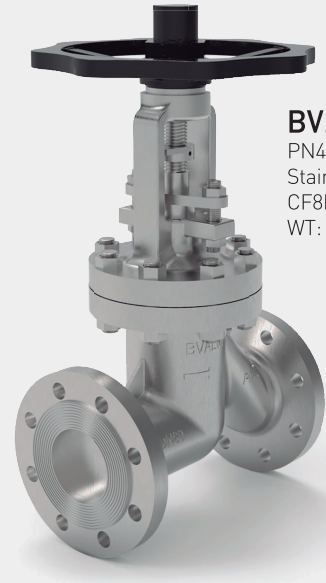
**BV25064**  
PN16 EN 1902-2  
Nodular Cast Iron  
EN-GJS-400-18-LT  
WT: -10°C...+350°C



**BV25063**  
PN25 EN 1902-2  
Nodular Cast Iron  
EN-GJS-400-18-LT  
WT: -10°C...+350°C



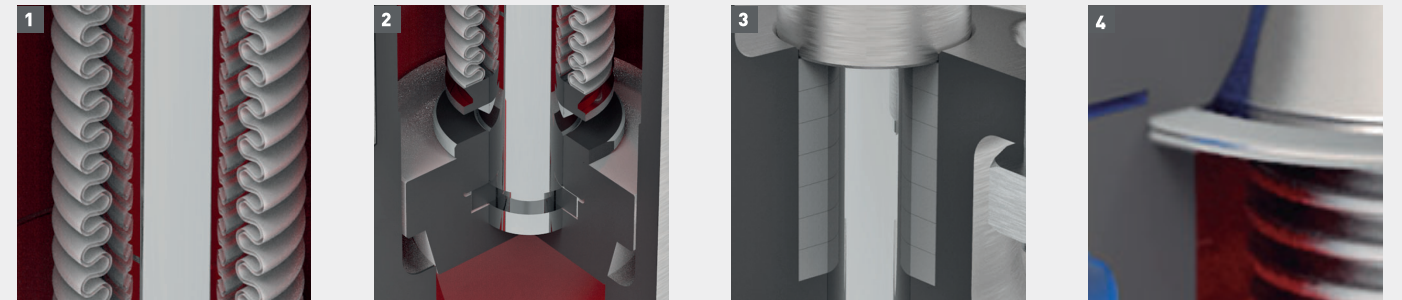
**BV25065**  
PN40 EN 1902-1  
Carbon steel  
WCB (1.0619)  
WT: -10°C ... +400°C



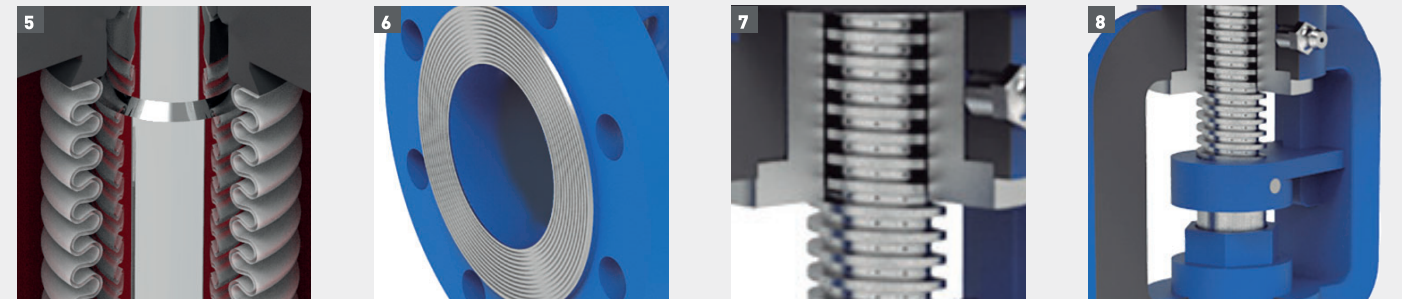
**BV25066**  
PN40 EN 1902-1  
Stainless Steel  
CF8M (1.4408)  
WT: -60°C ... +400°C

**ZERO LEAKAGE!**

## Features of high quality bellows sealed valves

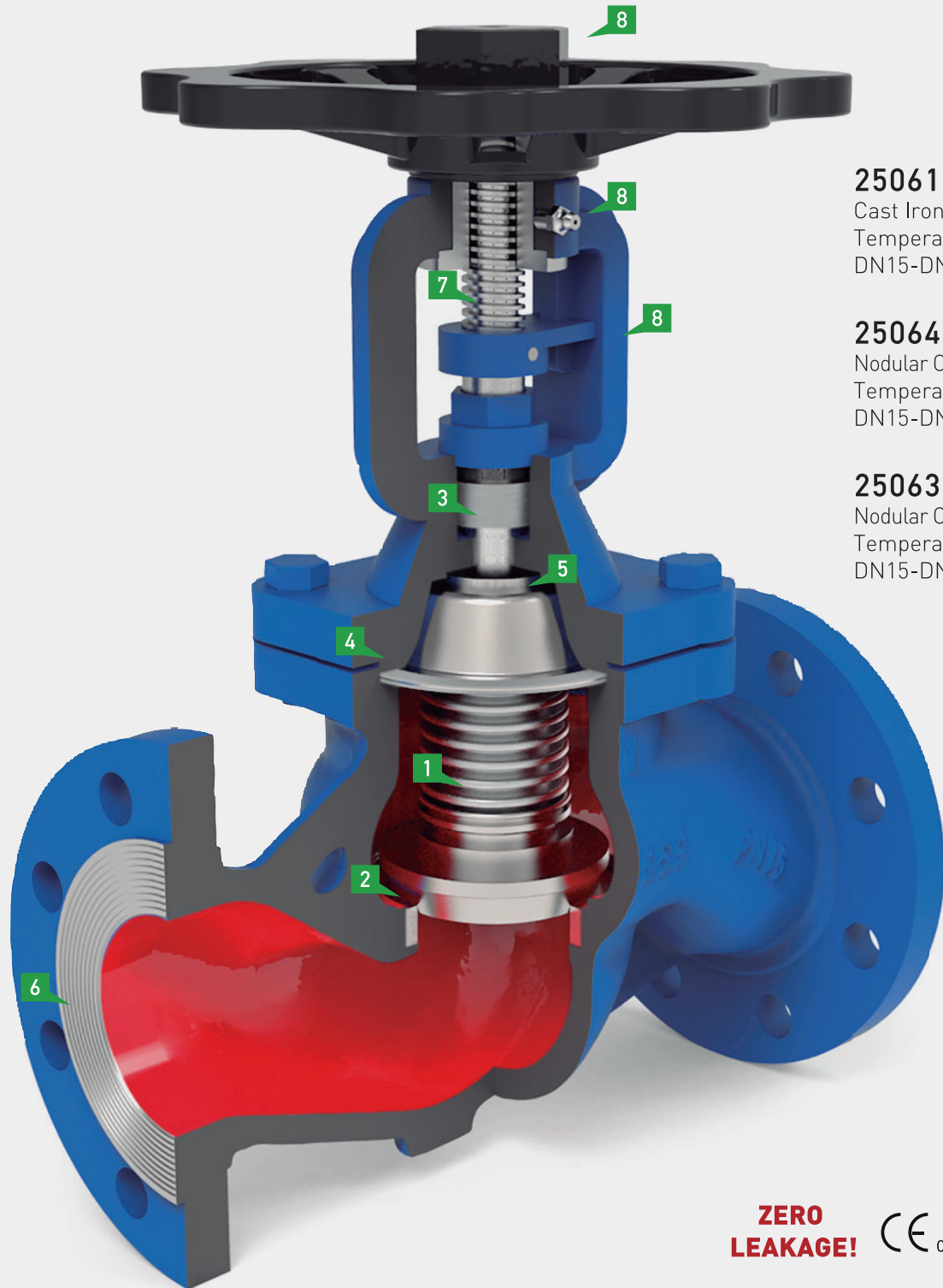


- 1. Multiple layer stainless steel bellows.** Double, triple and quadruple bellows wall depending on the size of the valve. Welded to the stem and not to the disc, preventing the transmission of vibrations and extending the life of the bellows. Secured against torque and designed to last for 30,000 operations.
- 2. Standard 360° free rotation and conical plug** provides a tighter closure while maintaining seat clean from shards. Both seat and plug are made out of hardened chromium steel 1.4021 or armored with stellite.
- 3. TA-LUFT certified** full size safety gland packing made of pure graphite together with our bellows, provide a fully reliable 0 leakage unit. Can also be supplied in PTFE if requested for chemical applications (PN40)
- 4. Stainless steel cam profiled bonnet gasket** coated with pure graphite, mounted in **tongue and grooved bonnet** flanges reinforces operating safety in case of leakage. Can also be supplied in PTFE if requested for chemical applications (PN40)



- 5. Non Ejectable Stem.** Stem includes mechanical stop which at the same time perform the function of locking metal to metal in the opened positions and hence prevent stems from being ejected due to process pressures, while guaranteeing a zero leakage in case of broken bellows. Meanwhile, mechanical stop adds robustness when valves are opened.
- 6. Flange faces with thin machining** acc. EN 1092, high quality cast iron and nodular cast iron, EN 10204 3.1 certificate available.
- 7. ACME Thick thread stem**
- 8. Easy handling:** Robust and ergonomic hand wheel. Lubricator and anti-friction bearings that eases the valve opening and closing. Robust yoke design and opening indicator that allows user to know in which opening / closing stage is the valve without having to operate it.

BVALVE DIN Bellows Sealed Valves



**25061 PN16**

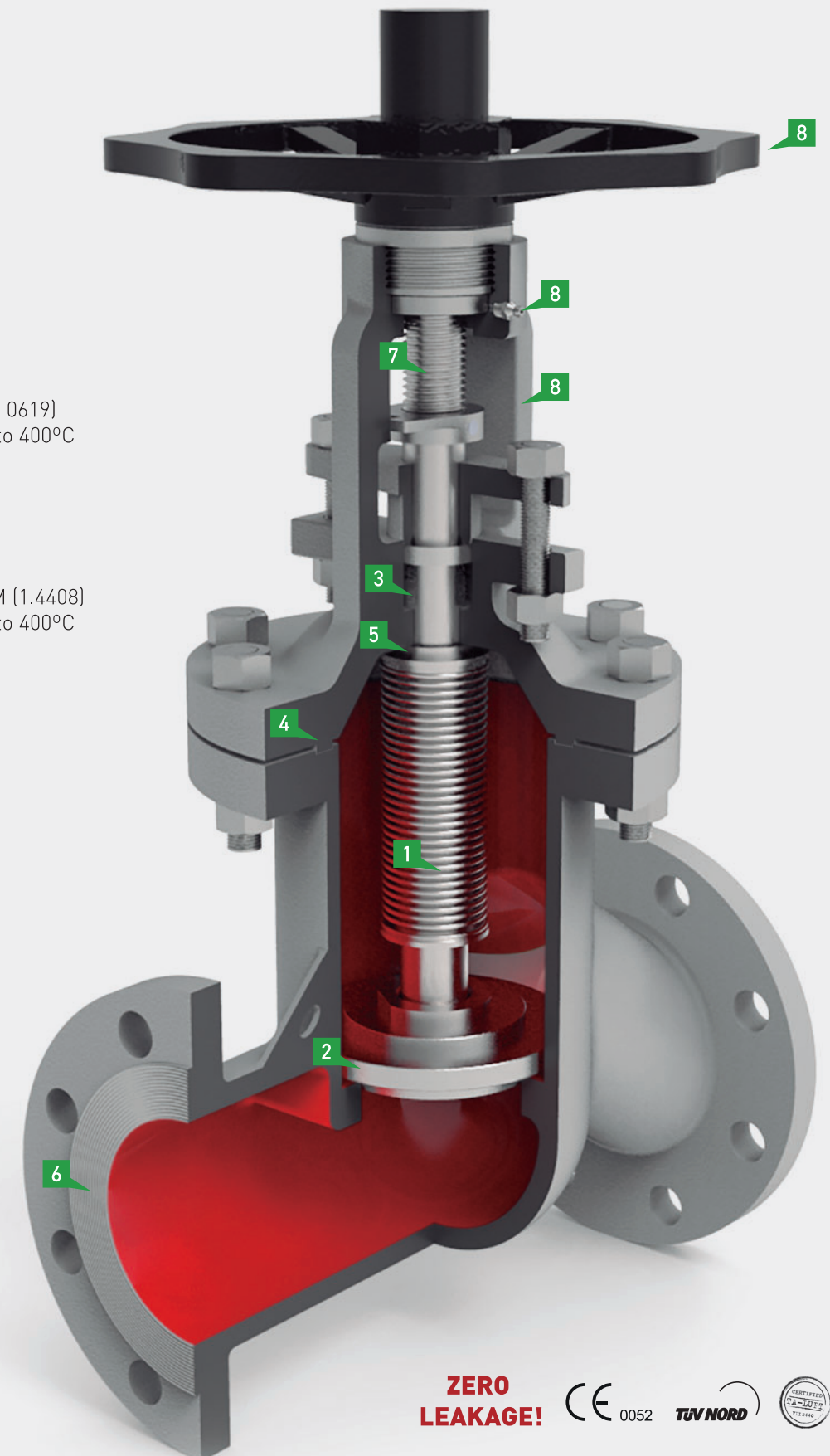
Cast Iron EN-JL 1040  
Temperature -10°C to 300°C  
DN15-DN300

**25064 PN16**

Nodular Cast Iron EN-GJS-400-18-LT  
Temperature -10°C to 350°C  
DN15-DN300

**25063 PN25**

Nodular Cast Iron EN-GJS-400-18-LT  
Temperature -10°C to 350°C  
DN15-DN200



**25065 PN40**

Carbon steel WCB (1 0619)  
Temperature -10°C to 400°C  
DN15-DN300

**25066 PN40**

Stainless Steel CF8M (1.4408)  
Temperature -60°C to 400°C  
DN15-DN300

**ZERO LEAKAGE!** CE 0052 TUV NORD

**ZERO LEAKAGE!** CE 0052 TUV NORD



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# BV25065 | PN40 EN 1092-1

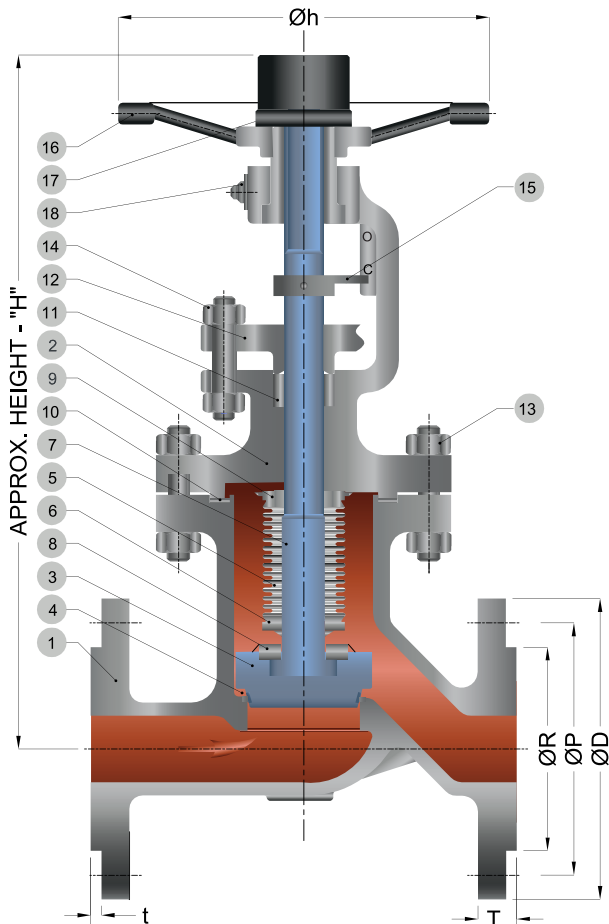
Carbon steel WCB (1.0619)



Temperature min. -10°C  
Temperature max. +400°C

Testing pressure in bar

Hydro	Body	60
	Seat	44
Air	Seat	07



N°	COMPONENT	MATERIALS
1	Body	1.0619 / ASTM - A 216 Gr.WCB
2	Bonnet	1.0619 / ASTM - A 216 Gr.WCB
3	Plug	ASTM - A 217 Gr.CA15 + 13% Cr. OVERLAY
4	Integral seat	ASTM - A 216 Gr.WCB [ 1.0619 ] + 13% Cr. OVERLAY
5	Bellow	AISI - 321
6	Bellow collar	ASTM - A 276 TYPE 316
7	Stem	ASTM - A 276 TYPE 410
8	Collar ring	ASTM - A 276 TYPE 410
9	Top collar	ASTM - A 276 TYPE 316
10	Gasket	SPW - SS 304 + GRAPHITE
11	Packing	GRAPHITE
12	Gland bush /Flange	1.0619 / ASTM - A 216 Gr.WCB
13	Fastener	ASTM - A 193 Gr.B7 / A 194 Gr.2H
14	Gland stud & nut	ASTM - A 193 Gr.B7 / A 194 Gr.2H
15	Guide plate/Indicator	CARBON STEEL
16	Hand wheel	MILD STEEL / NODULAR CAST IRON
17	Hand wheelNut/cap	CARBON STEEL
18	Grease nipple	CARBON STEEL

ZERO LEAKAGE

DIN: Rate A acc.EN12266-1

Face to face acc. to EN558-1

Flanges acc. to EN 1092-1 form B

DN	PN	ØD (outer flange diameter)	ØP (Bolt circle)	ØR	T (FGL,THK)	t	NO.OF HOLE / Ø	L (Face to face)	Øh	STROKE	H (closed)	Weight (Kg)
15	40	95	65	45	16	2	4/Ø14	130	150	4	260	8.5
20	40	105	75	58	18	2	4/Ø14	150	150	5	265	9.5
25	40	115	85	68	18	2	4/Ø14	160	150	6.5	280	11.5
32	40	140	100	78	18	2	4/Ø18	180	200	8	290	17.0
40	40	150	110	88	19	3	4/Ø18	200	200	10	318	19.0
50	40	165	125	102	20	3	4/Ø18	230	200	13	335	21.5
65	40	185	145	122	22	3	8/Ø18	290	250	16,5	415	33.5
80	40	200	160	138	24	3	8/Ø18	310	300	20	440	45.0
100	40	235	190	162	24	3	8/Ø22	350	300	25	515	61.5
125	40	270	220	188	26	3	8/Ø26	400	350	32	600	102.0
150	40	300	250	218	28	3	8/Ø26	480	400	38	655	122.0
200	40	375	320	285	34	3	12/Ø30	600	450	51	788	222.0
250	40	450	385	345	38	3	12/Ø33	730	500	64	930	362.0
300	40	515	450	410	42	4	16/Ø33	850	600	75	1.140	533.0

all dimensions in mm.

WORKING CONDITIONS							
Temperature °C	-10/120	150	200	250	300	350	400
Pressure Bar	40	35,2	33,3	30,4	27,6	25,7	23,8