Bellows sealed valves

BVALVE	High quality bellows sealed valves
BV25061	**DIN PN16** Cast Iron
BV25064	**DIN PN16** Nodular Cast Iron
BV25063	**DIN PN25** Nodular Cast Iron
BV25065	**DIN PN40** Carbon steel
BV25066	**DIN PN40** Stainless Steel
BV25065/66 AMA	**DIN PN40** Pneumatic actuated (CS/SS)
BV25065/66 ELE	**DIN PN40** Electric actuated (CS/SS)
BV25065 ASA 150#	**ANSI 150#** Carbon steel
BV25066 ASA 150#	**ANSI 150#** Stainless Steel
BV25065 ASA 300#	**ANSI 300#** Carbon steel
BV25066 ASA 300#	**ANSI 300#** Stainless Steel
BV25065 ASA 600#	**ANSI 600#** Carbon steel
BV25066 ASA 600#	**ANSI 600#** Stainless Steel
CONNECTIONS	Butt weld / other flange connections
ACCESOIRES	Certifications / other materials
	Thermal Blanket Insulation

Gland packing globe valve

BV25060	**PN16** Cast Iron

Pressure reducing valve

PRV50065HP	Pressure Reducing Valve

Traps and strainers

BV66	Thermodynamic disc traps
BV500	Float trap with thermostatic air vent
BV12064	Y type strainers - Flanged ends PN16
BV12065	Y type strainers - Flanged ends PN40
BV800	Y type strainers - Threaded ends

BVALVE High quality bellows sealed valves

BVALVE manufactures high quality bellows sealed globe valves. Our company guarantees the quality and the perfect tightness of our valves according to EN standards / ASME B16.34 / API 598.

BVALVE valves are ideal to be applied on: steam industrial boilers, chemical, petrochemical and process industries. Most important applications are steam, thermal oil, overheated water and chemical products.

Besides, our products are characterized by quality and full safety, due to oversized components, free rotating disc, conical plug and the non ejectable stem.

BVALVE submits all of its products to pressure and tightness tests. Therefore, in order to verify the resistance of all components, valves are tested through thousands of opening and closing cycles.

Machining

Assembly

Micrometer

Test bench

Features of high quality bellows sealed valves

BVALVE Bellows Sealed Globe Valves include flanges designed according to EN 1092 / ASME B16.5, face to face distance as per EN 558-1 / ASME B16.10, ACME threaded stem screws and grounded shafts. Moreover, our stainless steel multilayer bellows are designed for a long life service as they display a minimum life cycle as per MSS SP-117. Further premium characteristics include metal back seat, safety stuffing box packing made of pure graphite, and graphite-stainless steel gasket, housed in tongue and grooved flanges. Besides, our hard faced stainless steel plugs show a conical shape while being able to rotate 360º.

Free rotating conical plug: Our 360º free rotation plugs improve the cleaning of dirt or impurities fluids may carry allowing a tighter clousure while avoiding vibrations from being transmitted to the valve stem.
Multi-layer bellow: Depending on their sizes, our valves contain double, triple and quadruple bellows which are welded to the stems and not to the plug, preventing them from transmitting vibrations to the bellows and therefore extending their lives.

Non ejectable stems: 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. Meanwhile, mechanical stop adds robustness when valves are opened. Furthermore, our valves are equipped with pure graphite safety packings.

CE 0052 TÜV NORD

Kvs values

Definition of Kv value:

Kv value is the amount of water (m^3/h) at 20°C that flows through a valve at a fix opening rate (%) when pressure drop between inlet/outlet is 1 bar. Kvs is the Kv value when valve is 100% opened.

Determination of Kv value

Liquids (water, etc.)	$K_V = Q \cdot \sqrt{\frac{\rho}{1000 \cdot \Delta P}}$	K_V = Flow coefficient (m^3/h) Q = Volumetric flow (m^3/h) ρ = Density (kg/m^3)
Saturated steam	Subcritical flow $\Delta P < \frac{P_1}{2}$ $K_V = \frac{G}{22{,}4\ \sqrt{\Delta P \cdot P_2}}$	K_V = Flow coefficient (m^3/h) G = Mass flow (kg/h) ΔP = Pressure drop (bar) P_1 = Upstream pressure (bar a) P_2 = Downstream pressure (bar a)
	Critical flow $\Delta P > \frac{P_1}{2}$ $K_V = \frac{G}{11.2 \cdot P_1}$	
Superheated steam	Subcritical flow $\Delta P < \frac{P_1}{2}$ $K_V = \frac{G}{31{,}7 \cdot \sqrt{\Delta P / V_2}}$	K_V = Flow coefficient (m^3/h) G = Mass flow (kg/h) ΔP = Pressure drop (bar) P_1 = Upstream pressure (bar a) P_2 = Downstream pressure (bar a) V_2 = Specific volume (m^3/h) @ P_2, T_1 V = Specific volume (m^3/h) @ $P_1/2$, T_1
	Critical flow $\Delta P > \frac{P_1}{2}$ $K_V = \frac{G}{22{,}4 \sqrt{\Delta P / V}}$	
Gases	Subcritical flow $\Delta P < \frac{P_1}{2}$ $K_V = \frac{Q_N}{514} \sqrt{\frac{\rho_N \cdot T_1}{\Delta P \cdot P_2}}$	K_V = Flow coefficient (m^3/h) Q_N = Volumetric flow (Nm^3/h) ρ_N = Density (kg/Nm^3) T_1 = Upstream temperature (K) ΔP = Pressure drop (bar) P_1 = Upstream pressure (bar a) P_2 = Downstream pressure (bar a)
	Critical flow $\Delta P > \frac{P_1}{2}$ $K_V = \frac{Q_N}{257 \cdot P_1} \sqrt{\rho_N \cdot T_1}$	

Simplified sizing ecuations acc. to ISA and IEC standards

Permissible differential pressure acc. EN 13709

PN	DN													
	15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN 16							16					14	9	6
PN 25							25				21	14	9	6
PN 40							40			33	21	14	9	6

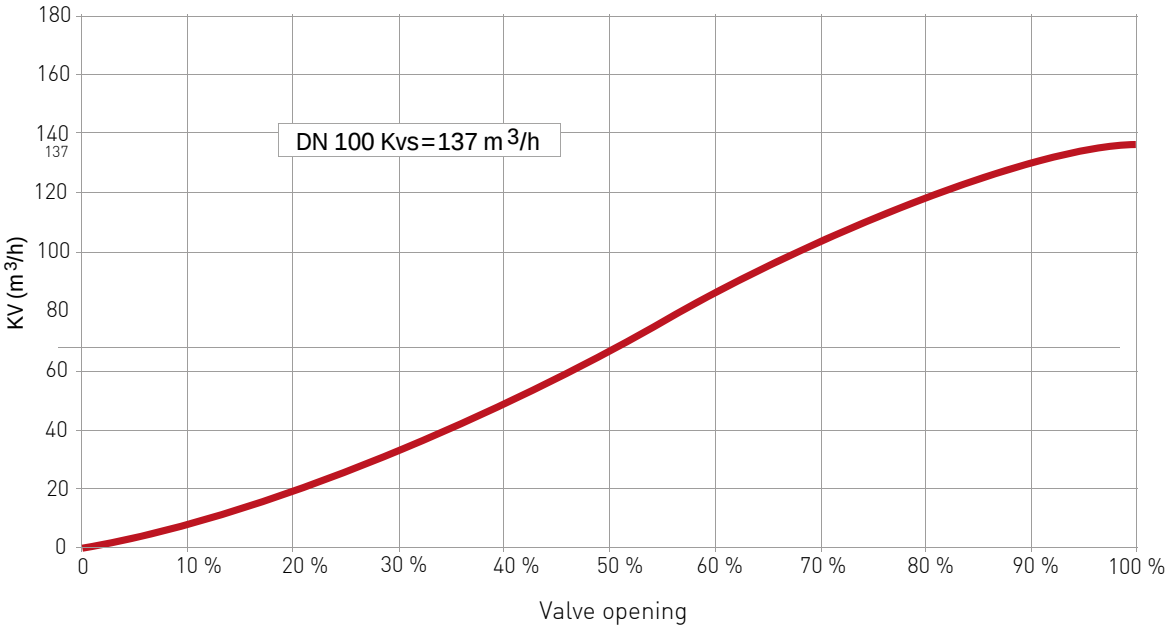
Kvs values

Kvs value standard plug

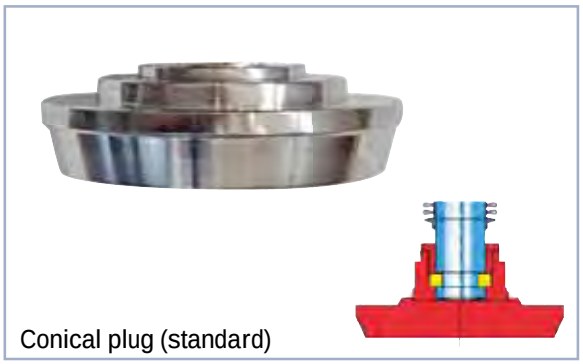
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
KVS	4.8	7.3	11.7	17.8	27.3	43	75.1	111	176	264	369	701	1056	1691

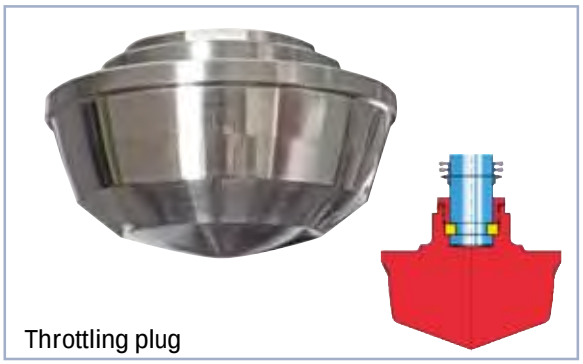
Throttling plug Kvs value

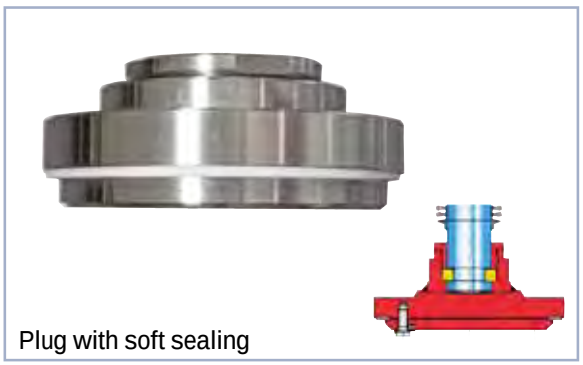
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
KVS	4.36	6.76	9.21	16.3	25.1	36.8	61.7	91.6	137	184	287	471	898	1410

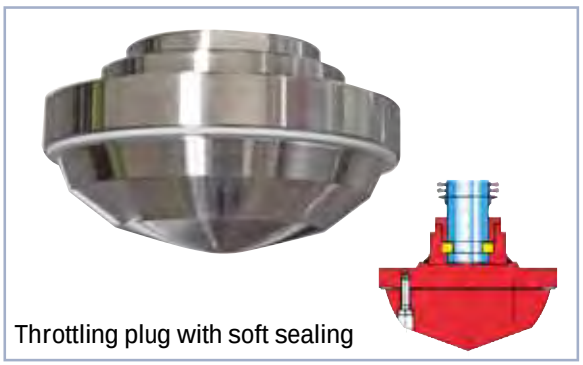


Optional plug types


Conical plug (standard)


Throttling plug


Plug with soft sealing

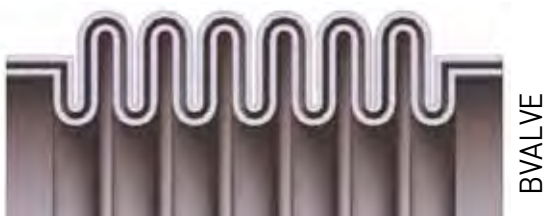

Throttling plug with soft sealing

Competitor advantages of BVALVE bellows sealed valves

DIN bellows sealed valves have become highly popular in steam and thermal oil markets due to the mass consumption the industry demand has generated.
Unfortunately, this increase in demand has led to a massive manufacturing of these valves at very low prices. This situation has caused 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.

FEATURES	BVALVE	OTHERS
Non ejectable stem	YES	NO
Metal back seated tightness in opened position	YES	NO
360º free rotation disc	YES	On request
Bearings on the wheel for easy valve operation	YES	NO
Stroke limiter	YES	On request
Wide thread stem that prevents the valve from blocking	YES	NO
Tongued body and bonnet	YES	NO

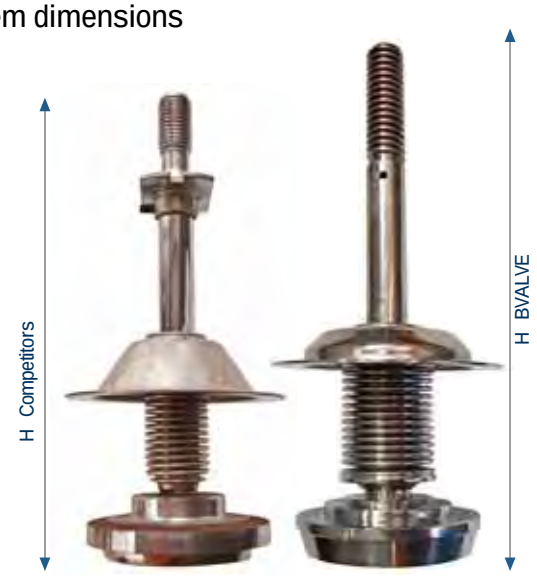
Multi Layer Bellows



- Double, triple and quadruple layer bellows depending on the size of the valve.
- Bellows designed to support 10,000 operation cycles.
- Bellows are welded to the stem and not to the disc, preventing the transmission of vibrations to the bellows, and therefore extending the life of the bellows.

- Just one bellow layer, which means a lower resistance to breakage.
- Bellows designed to support less than 10,000 operation cycles.
- Bellows are welded to the disc, which transmits the vibrations to the bellows, decreasing their lives.

Stem dimensions



DN	H (mm) BVALVE	H (mm) Competitors
15	215	205
20	220	205
25	232	210
32	240	210
40	260	225
50	270	230
65	330	245
80	340	265
100	390	365
125	425	395
150	500	425
200	615	550
250	780	720

Why BVALVE Bellows sealed valves are the best in the market?

BVALVE launches its own bellow sealed valves, having improved all elements design, and therefore making this valve the best choice in the market.

- High quality bellow Made in Germany
- Standard 360º free rotation and conical plug (A)
- ZERO LEAKAGE!
- No ejectable stem (B)
- Tongued and grooved body and bonnet (C)
- Plug and seat hardfaced (D)

CE 0052 TÜV NORD

Features of high quality bellows sealed valves

BVALVE Bellows Sealed Globe Valves have flanges acc. to EN 1092-2, face to face as per EN 558-1 and ACME stem screw thread and grounded shaft. Some of Bvalve's premium features are multiply layer bellows with long service life made of stainless steel, minimum life cycle of bellows as per MSS SP-117, metal back seat, safety stuffing box packing made of pure graphite, graphite + stainless steel gasket housed in a tongue and grooved flange, seat ring hard faced, conical disc and 360º rotating plug made of stainless steel + HARD FACED.

Robust and ergonomic hand wheel

Lubrificator and anti-friction bearings that eases the valve opening and closing.

ACME Thick thread stem

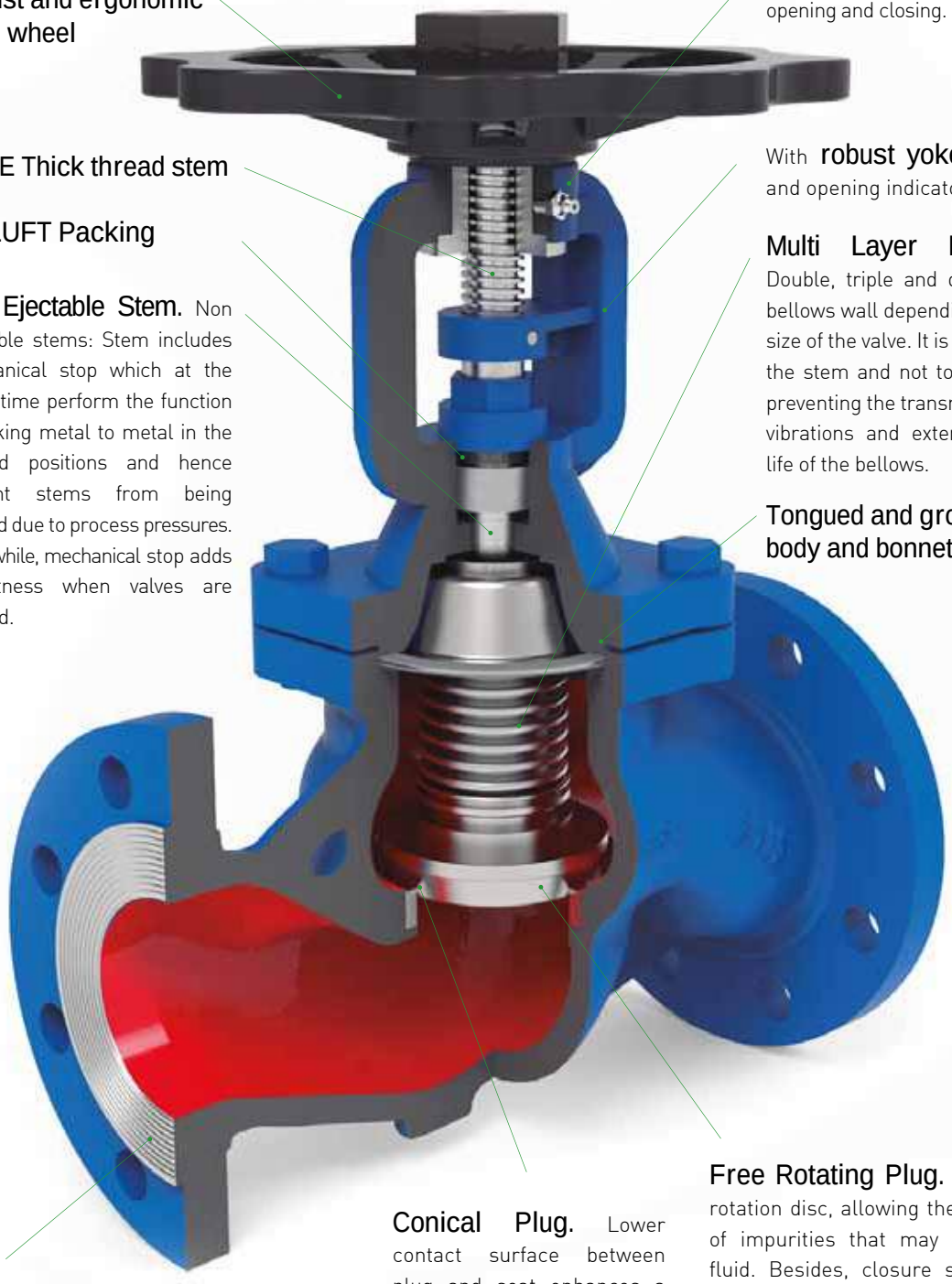
With **robust yoke** design and opening indicator

TA-LUFT Packing

Multi Layer Bellows Double, triple and quadruple bellows wall depending on the size of the valve. It is welded to the stem and not to the disc, preventing the transmission of vibrations and extending the life of the bellows.

Non Ejectable Stem. Non ejectable stems: 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. Meanwhile, mechanical stop adds robustness when valves are opened.

Tongued and grooved body and bonnet



Flange faces with thin machining acc. EN 1092, high quality cast iron and nodular cast iron, EN 10204 3.1 certificate available.

Conical Plug. Lower contact surface between plug and seat enhances a tighter clousure.

Free Rotating Plug. 360º free rotation disc, allowing the cleaning of impurities that may carry the fluid. Besides, closure surface is different in every cycle and at the same time, it does not transmit the vibrations to the valve stem.


VALVE
CE0052 BV
Tmax +300°C
bar 9.6

BV25061 | PN16 EN 1092-2

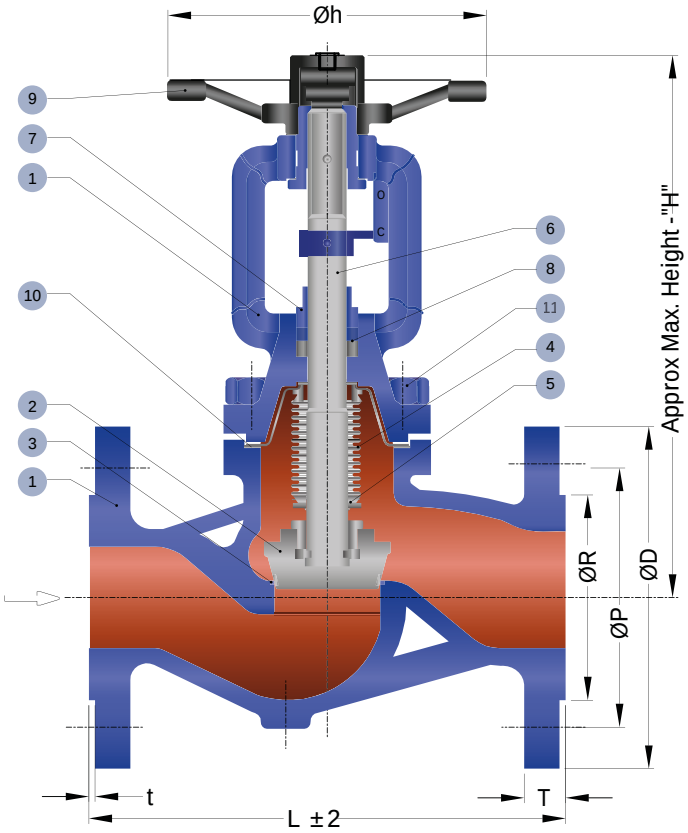
Cast Iron EN-JL 1040

Temperature min. -10ºC
Temperature max.+300ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	24
	Seat	18
Air	Seat	07



Nº	COMPONENT	MATERIALS
1	Body & Bonnet	EN-JL 1040 Cast Iron
2	Plug	St. Steel 1.4021 + Hard Faced 13% Cr
3	Seat	ASTM - A105 + Hard Faced 13% Cr
4	Bellow	St. Steel 1.4541 / AISI-321
5	Bellow collar	St. Steel 1.4541
6	Stem	St. Steel 1.4006
7	Gland	St. Steel 1.4021
8	Packing	Pure Graphite
9	Hand Wheel	EN-GJS-400-18-LT Nodular
10	Bonnet Gasket	Graphite + Stainless steel
11	Bolt & Nuts	Carbon Steel Gr.10.9

ZERO LEAKAGE
DIN: Rate A acc.EN12266-1

Face to face dimensions acc. to EN558-1
Flanges acc. to EN 1092-2 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	16	95	65	46	14	2	4/Ø14	130	150	4	215	4,80
20	16	105	75	56	16	2	4/Ø14	150	150	5	220	5,16
25	16	115	85	65	16	3	4/Ø14	160	150	6.5	232	5,98
32	16	140	100	76	18	3	4/Ø19	180	150	8	240	7,80
40	16	150	110	84	18	3	4/Ø19	200	200	10	260	11,20
50	16	165	125	99	20	3	4/Ø19	230	200	13	270	13,60
65	16	185	145	118	20	3	4/Ø19	290	250	16,5	330	22,90
80	16	200	160	132	22	3	8/Ø19	310	250	20	340	27,40
100	16	220	180	156	24	3	8/Ø19	350	300	25	390	40,30
125	16	250	210	184	26	3	8/Ø19	400	350	32	425	67,20
150	16	285	240	211	26	3	8/Ø23	480	400	38	500	89,20
200	16	340	295	266	30	3	12/Ø23	600	450	51	615	143,50
250	16	405	355	319	32	3	12/Ø28	730	500	63	780	241,00
300	16	460	410	370	32	4	12/Ø28	850	600	75	970	435,00

all dimensions in mm.

WORKING CONDITIONS					
Temperature ºC	-10/120	150	200	250	300
Pressure Bar	16	14,4	12,8	11,2	9,6

BV25064 | PN16 EN 1092-2

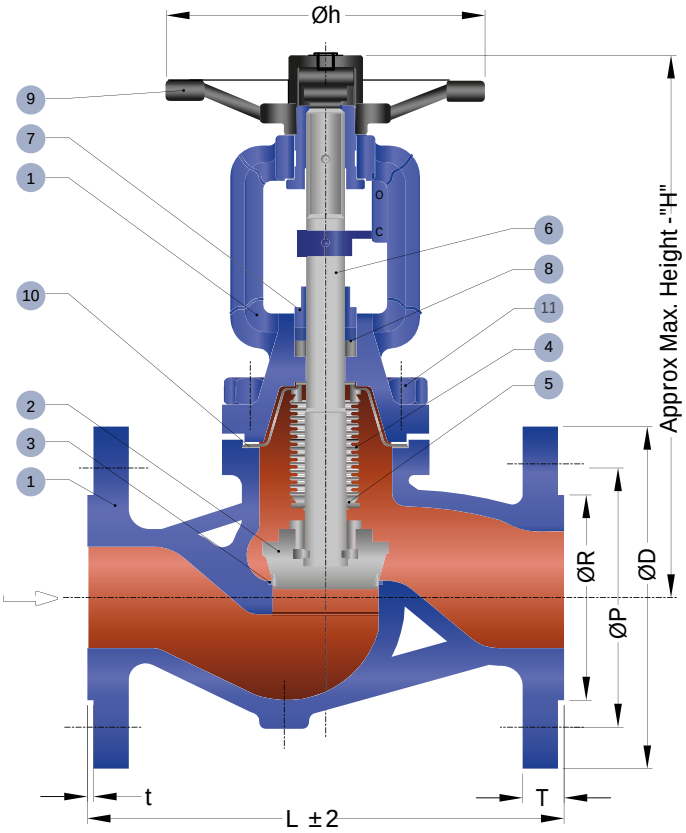
Nodular Cast Iron EN-GJS-400-18-LT

Temperature min. -10ºC
Temperature max.+350ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	24
	Seat	18
Air	Seat	07



Nº	COMPONENT	MATERIALS
1	Body & Bonnet	EN-GJS-400-18-LT Nodular Cast Iron
2	Plug	St. Steel 1.4021 + Hard Faced 13% Cr
3	Seat	ASTM - A105 + Hard Faced 13% Cr
4	Bellow	St. Steel 1.4541 / AISI-321
5	Bellow collar	St. Steel 1.4541
6	Stem	St. Steel 1.4006
7	Gland	St. Steel 1.4021
8	Packing	Pure Graphite
9	Hand Wheel	EN-GJS-400-18-LT Nodular
10	Bonnet Gasket	Graphite + Stainless steel
11	Bolt & Nuts	Carbon Steel Gr.10.9

ZERO LEAKAGE
DIN: Rate A acc.EN12266-1

Face to face dimensions acc. to EN558-1
Flanges acc. to EN 1092-2 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	16	95	65	46	14	2	4/Ø14	130	150	4	215	4,08
20	16	105	75	56	16	2	4/Ø14	150	150	5	220	5,16
25	16	115	85	65	16	3	4/Ø14	160	150	6.5	230	8,98
32	16	140	100	76	18	3	4/Ø19	180	150	8	235	7,80
40	16	150	110	84	18	3	4/Ø19	200	200	10	255	11,20
50	16	165	125	99	20	3	4/Ø19	230	200	13	265	13,06
65	16	185	145	118	20	3	4/Ø19	290	250	16,5	325	22,90
80	16	200	160	132	22	3	8/Ø19	310	250	20	335	27,40
100	16	220	180	156	24	3	8/Ø19	350	300	25	385	40,30
125	16	250	210	184	26	3	8/Ø19	400	350	32	427	67,20
150	16	285	240	211	26	3	8/Ø23	480	400	38	485	89,20
200	16	340	295	266	30	3	12/Ø23	600	450	51	615	143,50
250	16	400	355	319	22	3	12/Ø28	730	500	64	780	241,0
300	16	455	410	370	24,5	4	12/Ø28	850	600	76	970	410,00

all dimensions in mm.

WORKING CONDITIONS						
Temperature ºC	-10/120	150	200	250	300	350
Pressure Bar	16	15,5	14,7	13,9	12,8	11,2

BV25063 | PN25 EN 1092-2

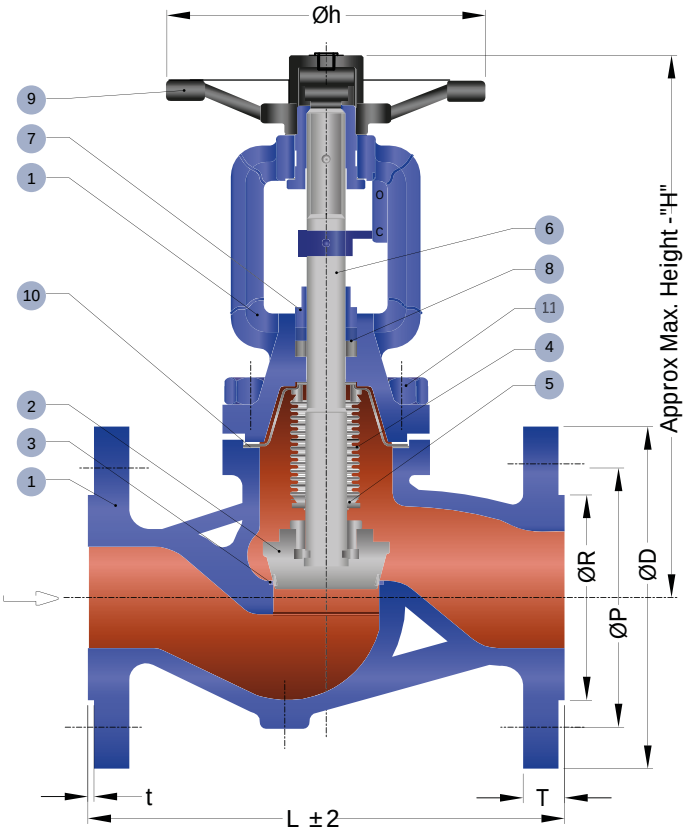
Nodular Cast Iron EN-GJS-400-18-LT

Temperature min. -10ºC
Temperature max.+350ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	37,5
	Seat	27,5
Air	Seat	07



Nº	COMPONENT	MATERIALS
1	Body & Bonnet	EN-GJS-400-18-LT Nodular Cast Iron
2	Plug	St. Steel 1.4021 + Hard Faced 13% Cr
3	Seat	ASTM - A105 + Hard Faced 13% Cr
4	Bellow	St. Steel 1.4541 / AISI-321
5	Bellow collar	St. Steel 1.4541
6	Stem	St. Steel 1.4006
7	Gland	St. Steel 1.4021
8	Packing	Pure Graphite
9	Hand Wheel	EN-GJS-400-18-LT Nodular
10	Bonnet Gasket	Graphite + Stainless steel
11	Bolt & Nuts	Carbon Steel Gr.10.9

ZERO LEAKAGE
DIN: Rate A acc.EN12266-1

Face to face dimensions acc. to EN558-1
Flanges acc. to EN 1092-2 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	25	95	65	46	16	2	4/Ø14	130	150	4	215	5,00
20	25	105	75	56	18	2	4/Ø14	150	150	5	220	5,50
25	25	115	85	65	19	3	4/Ø14	160	150	6.5	230	6,40
32	25	140	100	76	19	3	4/Ø19	180	150	8	235	8,30
40	25	150	110	84	19	3	4/Ø19	200	200	10	260	14,20
50	25	165	125	99	20	3	4/Ø19	230	200	13	265	14,14
65	25	185	145	118	22	3	8/Ø19	290	250	16,5	325	24,80
80	25	200	160	132	24	3	8/Ø19	310	250	20	355	27,90
100	25	235	190	156	24	3	8/Ø23	350	300	25	410	42,20
125	25	270	220	184	26	3	8/Ø28	400	350	32	450	67,00
150	25	300	250	211	28	3	8/Ø28	480	400	38	525	91,00
200	25	360	310	274	34	3	12/Ø28	600	450	51	645	147,00

all dimensions in mm.

WORKING CONDITIONS						
Temperature ºC	-10/120	150	200	250	300	350
Pressure Bar	25	24,3	23	21,8	20	17,5

PN40 DIN Bellows Sealed Valves

Straight type bellows sealed globe valves for demanding applications can be supplied in carbon steel 1.0619 / WCB and stainless steel 1.4408 / CF8M, both with flanged or buttweld ends.

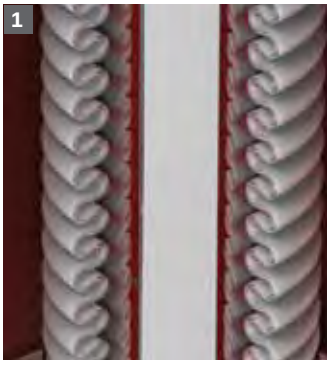
BV25066

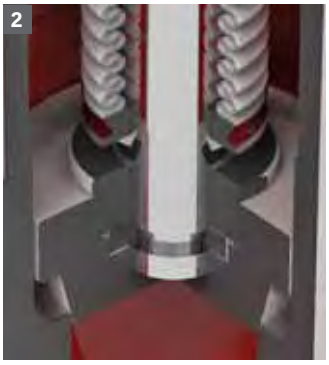
BV25065

CE 0052 TÜV NORD

Six reasons why our valve is better

FEATURES

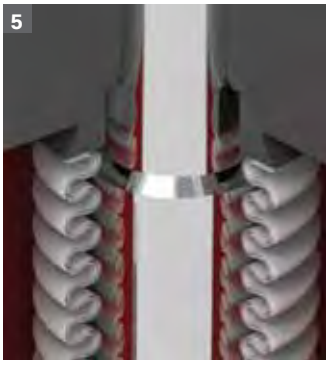




1. Completely welded multiple layer stainless steel bellows are secured against torque and designed to last for 30,000 operations. These provide higher safety and avoid leakage in case of broken packing.

2. Standard 360º 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.



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.

5. Metal back seat has two features: Mechanical limitation for open position while guaranteeing a zero leakage in case of broken bellows.

6. Oversized wheel for easy handling .Position Indicator allows user to know in which opening / closing stage is the valve without having to operate it.

BV25065

Application (Carbon steel):

Powerstations, thermal oil processes, gas industry, processing technology, vapour facilities, recycling plants, vacuum installations, etc.

Medium (Carbon steel):

Medium and high pressure steam, superheated steam, gases, thermal oil, overheated water and gases, etc.

BV25066

Application (Stainless steel):

Recycling plants, chemical industry, process water installations, process with aggressive media

Medium (Stainless steel):

Process water, aggressive media, corrossive and toxic fluids, ethylen dioxide, H_2SO_4, etc.

BV25065 PN40 EN 1092-1

Carbon steel WCB (1.0619)

Temperature min. -10ºC

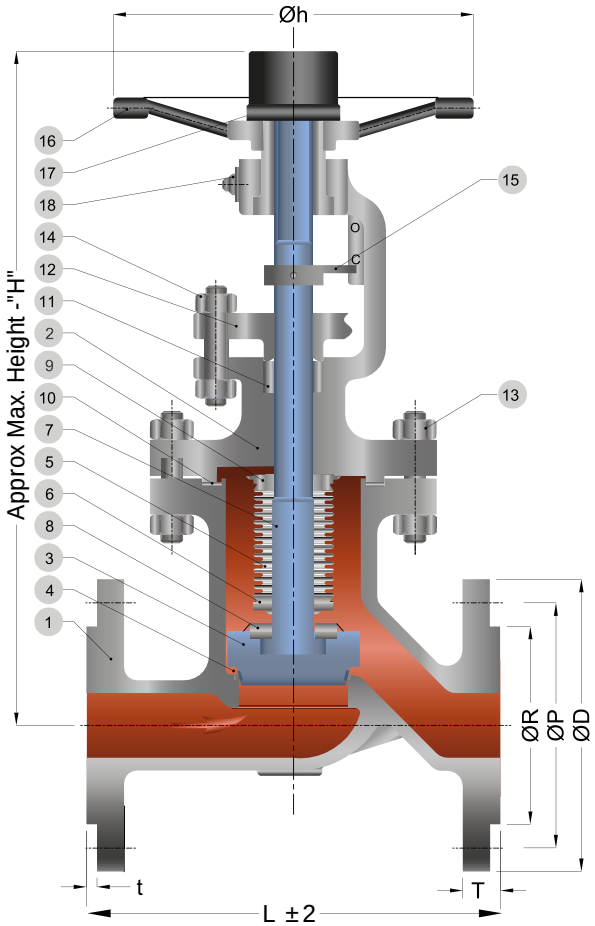
(For temp. up to -60ºC consult the manufacturer)

Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	60
	Seat	44
Air	Seat	07



Nº	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	172	4	264	8.5
20	40	105	75	58	18	2	4/Ø14	150	172	5	270	9.5
25	40	115	85	68	18	2	4/Ø14	160	172	7	300	11.5
32	40	140	100	78	18	2	4/Ø18	180	172	8	305	17.0
40	40	150	110	88	18	3	4/Ø18	200	200	10	330	19.0
50	40	165	125	102	20	3	4/Ø18	230	200	13	360	21.5
65	40	185	145	122	22	3	8/Ø18	290	250	16	430	33.5
80	40	200	160	138	24	3	8/Ø18	310	300	19	460	45.0
100	40	235	190	162	24	3	8/Ø22	350	300	25	550	61.5
125	40	270	220	188	26	3	8/Ø26	400	350	32	615	102.0
150	40	300	250	218	28	3	8/Ø26	480	400	38	690	122.0
200	40	375	320	285	34	3	12/Ø30	600	450	50	820	222.0
250	40	450	385	345	38	3	12/Ø33	730	500	70	1.010	362.0
300	40	515	450	410	42	4	16/Ø33	850	600	80	1.230	533.0

all dimensions in mm.

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

BV25066 PN40 EN 1092-1

Stainless Steel CF8M (1.4408)

Temperature min. -60ºC

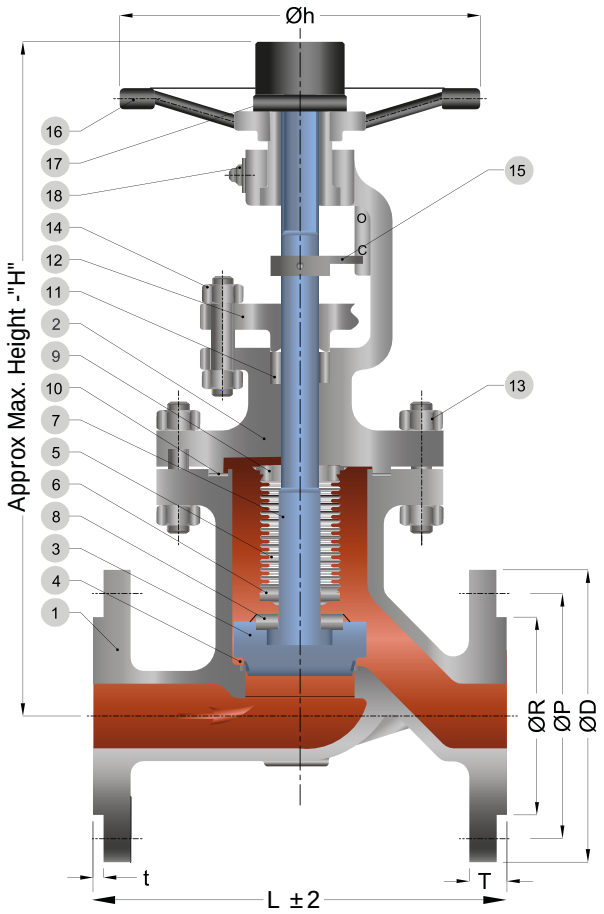
(For temp. up to -200ºC consult the manufacturer)

Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	60
	Seat	44
Air	Seat	07



Nº	COMPONENT	MATERIALS
1	Body	1.4408 / ASTM - A 351 Gr.CF8M
2	Bonnet	1.4408 / ASTM - A 351 Gr.CF8M
3	Plug	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.6
4	Integral seat	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.21
5	Bellow	1.4571 / AISI - 316Ti
6	Bellow collar	1.4401 / ASTM - A 276 TYPE 316
7	Stem	1.4401 / ASTM - A 276 TYPE 316
8	Collar ring	1.4401 / ASTM - A 276 TYPE 316
9	Top collar	1.4401 / ASTM - A 276 TYPE 316
10	Gasket	SPW - SS 316 + GRAPHITE
11	Packing	GRAPHITE
12	Gland bush /Flange	1.4408 / ASTM - A 351 Gr.CF8M
13	Fastener	ASTM - A193 Gr.B8M / A194 Gr.8M
14	Gland stud & nut	ASTM - A193 Gr.B8M / A194 Gr.8M
15	Guide plate/Indicator	1.4408 / ASTM - A 351 Gr.CF8M
16	Hand wheel	MILD STEEL / NODULAR CAST IRON
17	Hand wheel Nut/cap	1.4401 / AISI - 316
18	Grease nipple	1.4401 / AISI - 316

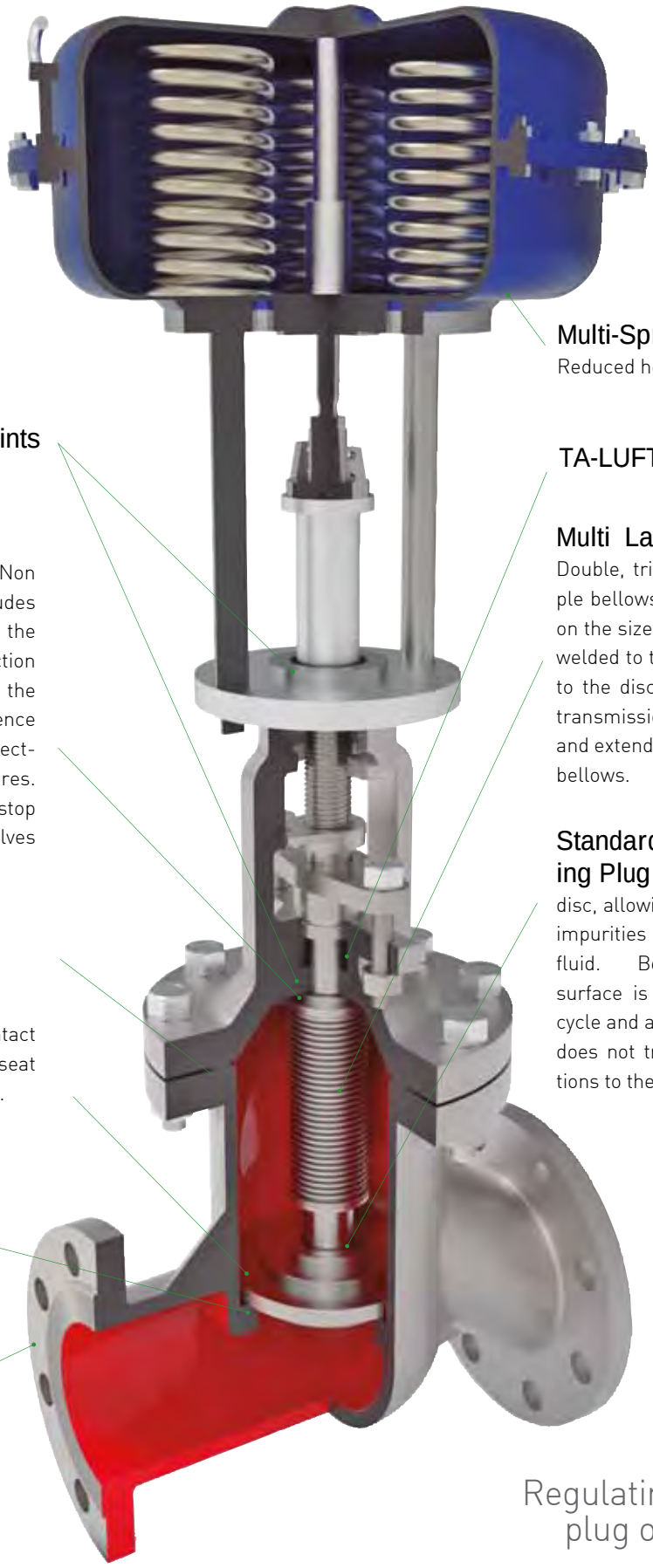
ZERO LEAKAGE
DIN: Rate A acc.EN12266-1
Face to face acc. to EN558-1
Flanges acc. to EN 1092-1 form B

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	172	4	264	8.5
20	40	105	75	58	18	2	4/Ø14	150	172	5	270	9.5
25	40	115	85	68	18	2	4/Ø14	160	172	7	300	11.5
32	40	140	100	78	18	2	4/Ø18	180	172	8	305	17.0
40	40	150	110	88	18	3	4/Ø18	200	200	10	330	19.0
50	40	165	125	102	20	3	4/Ø18	230	200	13	360	21.5
65	40	185	145	122	22	3	8/Ø18	290	250	16	430	33.5
80	40	200	160	138	24	3	8/Ø18	310	300	19	460	45.0
100	40	235	190	162	24	3	8/Ø22	350	300	25	550	61.5
125	40	270	220	188	26	3	8/Ø26	400	350	32	615	102.0
150	40	300	250	218	28	3	8/Ø26	480	400	38	690	122.0
200	40	375	320	285	34	3	12/Ø30	600	450	50	820	222.0
250	40	450	385	345	38	3	12/Ø33	730	500	70	1.010	362.0
300	40	515	450	410	42	4	16/Ø33	850	600	80	1.230	533.0

all dimensions in mm.

WORKING CONDITIONS								
Temperature ºC	-60/-10	-10/150	150	200	250	300	350	400
Pressure Bar	40	40	36,3	33,7	31,8	29,7	28,5	27,4

Main features



Multi-Spring Actuator
Reduced height and weight

Guided stem at two points

TA-LUFT Packing

Multi Layer Bellows. Double, triple and quadruple bellows wall depending on the size of the valve. It is welded to the stem and not to the disc, preventing the transmission of vibrations and extending the life of the bellows.

Non Ejectable Stem. Non ejectable stems: 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. Meanwhile, mechanical stop adds robustness when valves are opened.

Standard Free Rotating Plug 360º free rotation disc, allowing the cleaning of impurities that may carry the fluid. Besides, closure surface is different in every cycle and at the same time, it does not transmit the vibrations to the valve stem.

Tongued and grooved body and bonnet

Conical Plug. Lower contact surface between plug and seat enhances a tighter clousure.

Plug and seat hardfaced

Flange faces with thin machining acc. EN 1092, high quality cast iron and nodular cast iron, EN 10204 3.1 certificate available

Regulating control plug on request

Pneumatic actuated bellows sealed valve

Pneumatic actuated bellows sealed globe valve, straight type, with flanges acc. EN 1092-1; coupled stem with burnished shaft. Multiplewall liquid contacted bellows made of stainless steel, with anti torque device, tested for 30.000 cycles. Metal back seat. Safety stuffing box packing made of pure graphite. Grooved bonnet gasket made of stainless steel 1.4571 with a coating of pure graphite on both sides, housed in a tongue and grooved flange. Fitted with pneumatic diaphragm actuator; operating spring closing or spring opening.

BV25065 AMA
Carbon St. WCB (1.0619)
PN40 EN 1092-1
Temperature min. -10ºC
(For temp. up to -60ºC consult the manufacturer)
Temperature max. +400ºC

BV25066 AMA
Stainless St. CF8M (1.4408)
PN40 EN 1092-1
Temperature min. -60ºC
(For temp. up to -200ºC consult the manufacturer)
Temperature max. +400ºC

ATEX 2019/34/UE

CE 0052
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TÜV NORD
2014/68/UE

HELIUM LEAKAGE TEST
acc. VDI 2440

TA-LUFT
VDI 2440

FIRESAFE
acc. API 607 5th

Pneumatic actuated bellows sealed valves

PN40 DIN

Maximum operating pressure 6 bar

MATERIALS

Nº	COMPONENT	CARBON STEEL VALVE MATERIALS	STAINLESS STEEL VALVE MATERIALS
1	Body	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
2	Bonnet	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
3	Plug	ASTM - A 217 Gr.CA15 + 13% Cr. OVERLAY	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.6
4	Integral seat	ASTM - A 216 Gr.WCB (1.0619) + 13% Cr. OVERLAY	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.21
5	Bellow	AISI - 321	1.4571 / AISI - 316Ti
6	Bellow collar	ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316
7	Stem	ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316
8	Collar ring	ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316
9	Top collar	ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316
10	Gasket	SPW - SS 304 + GRAPHITE	SPW - SS 316 + GRAPHITE
11	Packing	GRAPHITE	GRAPHITE
12	Gland bush /Flange	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
13	Fastener	ASTM - A 193 Gr.B7 / A 194 Gr.2H	ASTM - A193 Gr.B8M / A194 Gr.8M
14	Gland stud & nut	ASTM - A 193 Gr.B7 / A 194 Gr.2H	ASTM - A193 Gr.B8M / A194 Gr.8M
15	Guide plate/Indicator	CARBON STEEL	1.4408 / ASTM - A 351 Gr.CF8M
16	Actuator	Steel	Steel

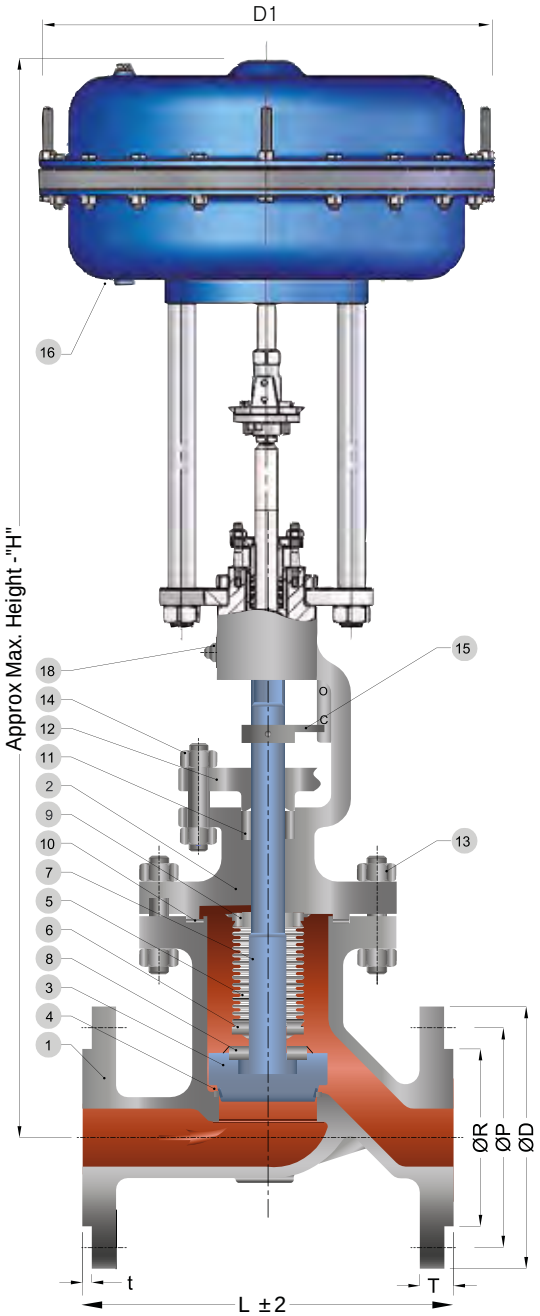
CLOSING PRESSURES

PNEUMATIC ACTUATORS					
DN	ACTUATOR	Closing Pressure (bar g)	DN	ACTUATOR	Closing Pressure (bar g)
15	AMA PA35 B6 6S FC	40	100	AMA MA41 A6 14S FC	37
20	AMA PA35 B6 6S FC	40	125	AMA PA60 A6 5S FC	2
25	AMA PA35 B6 6S FC	40	125	AMA MA41 A6 8S FC	8
32	AMA PA35 B6 6S FC	40	125	AMA MA41 A6 14S FC	18,5
40	AMA PA35 B6 6S FC	40	125	AMA MA60 G6 16S FC	35
50	AMA PA35 B6 6S FC	22,6	150	AMA PA60 A6 5S FC	1
50	AMA PA60 A6 5S FC	40	150	AMA MA41 A6 14S FC	11,5
65	AMA PA35 B6 6S FC	11,3	150	AMA MA41 C6 04S FC	13,5
65	AMA PA60 A6 5S FC	31,6	150	AMA MA60 G6 16S FC	23
65	AMA MA41 A6 8S FC	40	150	AMA MA60 D6 8S FC	36
80	AMA PA35 B6 6S FC	6,9	200	AMA MA41 B6 14S FC	4,5
80	AMA PA60 A6 5S FC	20,4	200	AMA MA41 C6 04S FC	6,5
80	AMA MA41 A6 8S FC	30,6	200	AMA MA60 G6 16S FC	10
80	AMA MA41 A6 14S FC	40	200	AMA MA60 D6 8S FC	15,5
100	AMA PA35 B6 6S FC	5,5	250	AMA MA41 C6 04S FC	2,5
100	AMA PA60 A6 5S FC	10,5	250	AMA MA60 D6 8S FC	9
100	AMA MA41 A6 8S FC	21	300	AMA MA60 D6 8S FC	5

WORKING CONDITIONS

CARBON STEEL	Temperature ºC	-10/120	150	200	250	300	350	400
	Pressure Bar	40	35,2	33,3	30,4	27,6	25,7	23,8

STAINLESS STEEL	Temperature ºC	-60/-10	-10/150	150	200	250	300	350	400
	Pressure Bar	40	40	36,3	33,7	31,8	29,7	28,5	27,4



BV25065 AMA

Carbon St. WCB (1.0619)
PN40 EN 1092-1
Temperature min. -10ºC
(For temp. up to -60ºC consult the manufacturer)
Temperature max.+400ºC

BV25066 AMA

Stainless St. CF8M (1.4408)
PN40 EN 1092-1
Temperature min. -60ºC
(For temp. up to -200ºC consult the manufacturer)
Temperature max.+400ºC

ZERO LEAKAGE
DIN: Rate A acc.EN12266-1

Face to face acc. to EN558-1
Flanges acc. to EN 1092-1 form B

Testing pressure in bar

Hydro	Body	60
	Seat	44
Air	Seat	07

CE 0052 — PED 2019/68/UE

HELIUM LEAKAGE TEST acc. VDI 2440

TA-LUFT VDI 2440

TÜV NORD — 2014/68/UE

ATEX 2019/34/UE

FIRESAFE — acc. API 607 5th

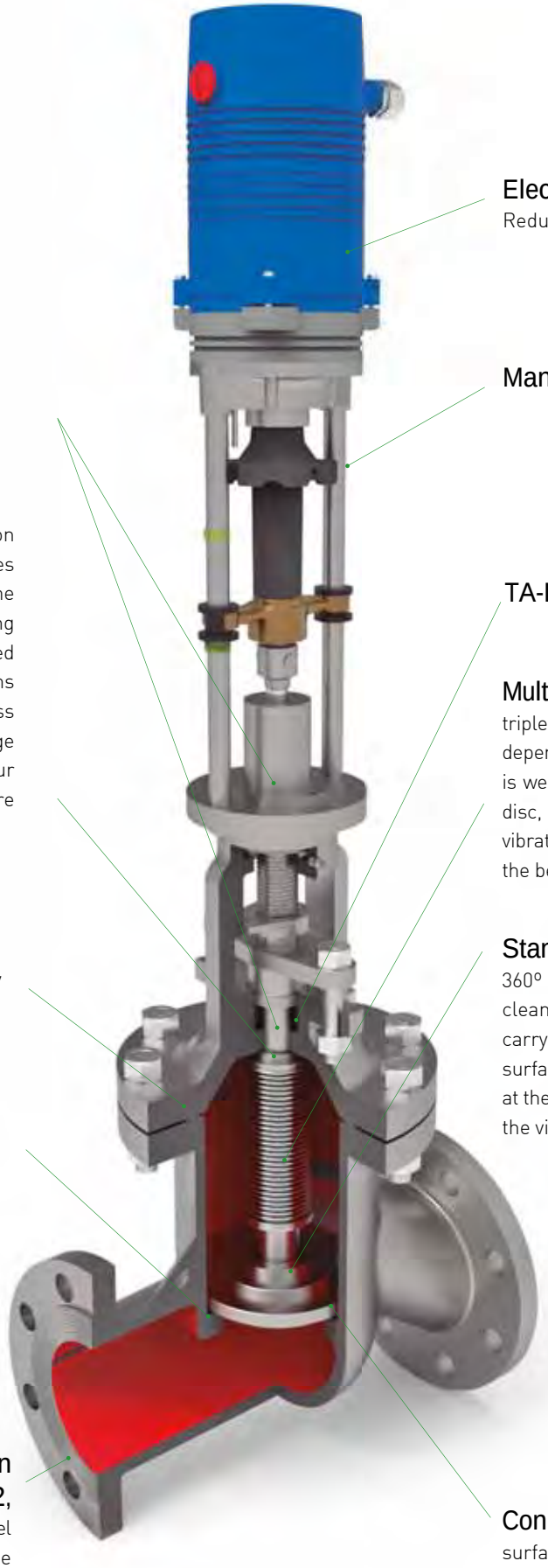
DIMENSIONS

DN	ØD (outer flange) diameter)	ØP (Bolt circle)	ØR	T (FGL. THK)	t	HOLE / Ø	L (Face to face)	STROKE	Weight (Kg)	Act: AMA PA35 B6 D1: Ø210 H	Act: AMA PA60 A6 D1: Ø310 H	Act: AMA MA41 A6 D1: Ø420 H	Act: AMA MA41 B6 D1: Ø420 H	Act: AMA MA41 C6 D1: Ø420 H	Act: AMA MA60 D6 D1: Ø600 H	Act: AMA MA60 G6 D1: Ø600 H
15	95	65	45	16	2	4/Ø14	130	4	8.5	513	-	-	-	-	-	-
20	105	75	58	18	2	4/Ø14	150	5	9.5	515	-	-	-	-	-	-
25	115	85	68	18	2	4/Ø14	160	6.5	11.5	542	-	-	-	-	-	-
32	140	100	78	18	2	4/Ø18	180	8	17.0	544	-	-	-	-	-	-
40	150	110	88	18	3	4/Ø18	200	10	19.0	566	-	-	-	-	-	-
50	165	125	102	20	3	4/Ø18	230	13	21.5	592	635	-	-	-	-	-
65	185	145	122	22	3	8/Ø18	290	16,5	33.5	642	685	756	-	-	-	-
80	200	160	138	24	3	8/Ø18	310	20	45.0	666	709	780	-	-	-	-
100	235	190	162	24	3	8/Ø22	350	25	61.5	746	789	860	-	-	-	-
125	270	220	188	26	3	8/Ø26	400	32	102.0	-	856	927	-	-	-	1.136
150	300	250	218	28	3	8/Ø26	480	38	122.0	-	918	989	-	1.192	1.394	-
200	375	320	285	34	3	12/Ø30	600	51	222.0	-	-	-	1.125	1.300	1.502	1.306
250	450	385	345	38	3	12/Ø33	730	64	362.0	-	-	-	-	1.468	1.670	-
300	515	450	410	42	4	16/Ø33	850	75	533.0	-	-	-	-	-	1.880	-

approximate dimensions in mm

Main features

Regulating control plug on request



Electric Actuator
Reduced height and weight

Manual device

Guided stem at two points

Non Ejectable Stem. Non ejectable stems: 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. Backseat avoid leackage in open position. Furthermore, our valves are equipped with pure graphite safety packings.

TA-LUFT Packing

Multi Layer Bellows. Double, triple and quadruple bellows wall depending on the size of the valve. It is welded to the stem and not to the disc, preventing the transmission of vibrations and extending the life of the bellows.

Standard Free Rotating Plug
360º free rotation disc, allowing the cleaning of impurities that may carry the fluid. Besides, closure surface is different in every cycle and at the same time, it does not transmit the vibrations to the valve stem.

Tongued and grooved body and bonnet

Plug and seat hardfaced

Flange faces with thin machining acc. EN 1092, high quality carbon and stainless steel material, EN 10204 3.1 certificate available

Conical Plug. Lower contact surface between plug and seat enhances a tighter clousure.

Electric actuated bellows sealed valve

Electric actuated bellows sealed globe valve, straight type, with flanges acc. EN 1092-1; coupled stem with burnished shaft. Multiplewall liquid contacted bellows made of stainless steel, with anti torque device, tested for 30.000 cycles. Metal back seat. Safety stuffing box packing made of pure graphite. Grooved bonnet gasket made of stainless steel 1.4571 with a coating of pure graphite on both sides, housed in a tongue and grooved flange. Fitted with electric actuator IP66. Power supply: 220V / 50-60Hz or 24V AC or 24V DC. Control signal: 3 step control / 4-20 mA / 0-10V DC

BV25065 ELE
Carbon St. WCB (1.0619)
PN40 EN 1092-1
Temperature min. -10ºC
(For temp. up to -60ºC consult the manufacturer)
Temperature max. +400ºC

BV25066 ELE
Stainless St. CF8M (1.4408)
PN40 EN 1092-1
Temperature min. -60ºC
(For temp. up to -200ºC consult the manufacturer)
Temperature max. +400ºC

ATEX 2019/34/UE

PED 2019/68/UE

2014/68/UE

HELIUM LEAKAGE TEST acc. VDI 2440

TA-LUFT VDI 2440

FIRESAFE acc. API 607 5th

Electric actuated bellows sealed valves

PN40 DIN

Maximum operating pressure 6 bar

MATERIALS

Nº	COMPONENT	CARBON STEEL VALVE MATERIALS	STAINLESS STEEL VALVE MATERIALS
1	Body	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
2	Bonnet	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
3	Plug	ASTM - A 217 Gr.CA15 + 13% Cr. OVERLAY	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.6
4	Integral seat	ASTM - A 216 Gr.WCB (1.0619) + 13% Cr. OVERLAY	1.4408 / ASTM - A 351 Gr.CF8M + Stellited Gr.21
5	Bellow	AISI - 321	1.4571 / AISI - 316Ti
6	Bellow collar	ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316
7	Stem	ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316
8	Collar ring	ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316
9	Top collar	ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316
10	Gasket	SPW - SS 304 + GRAPHITE	SPW - SS 316 + GRAPHITE
11	Packing	GRAPHITE	GRAPHITE
12	Gland bush /Flange	1.0619 / ASTM - A 216 Gr.WCB	1.4408 / ASTM - A 351 Gr.CF8M
13	Fastener	ASTM - A 193 Gr.B7 / A 194 Gr.2H	ASTM - A193 Gr.B8M / A194 Gr.8M
14	Gland stud & nut	ASTM - A 193 Gr.B7 / A 194 Gr.2H	ASTM - A193 Gr.B8M / A194 Gr.8M
15	Guide plate/Indicator	CARBON STEEL	1.4408 / ASTM - A 351 Gr.CF8M
16	Actuator	Steel	Steel

CLOSING PRESSURES

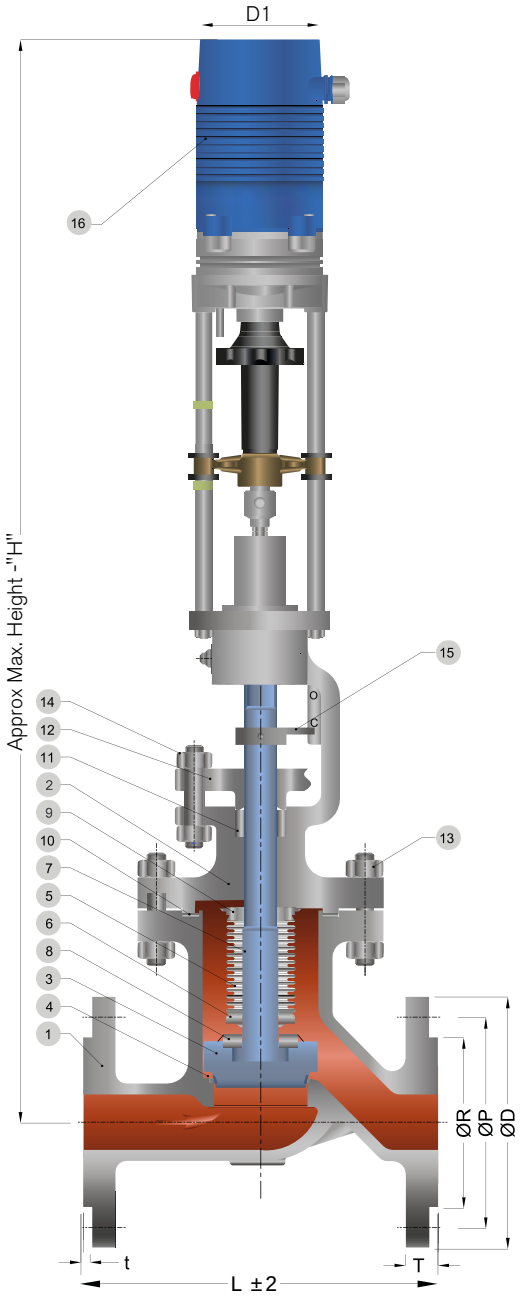
DN	ACTUATOR	Closing Pressure (bar g)
15	MC253 1922C	40
20	MC253 1922C	40
25	MC253 1922C	40
32	MC503 1922E	32
40	MC253 1922C	18
40	MC503 1922E	40
40	MC1003 1922F	40
50	MC253 1922C	9
50	MC503 1922E	20
50	MC1003 1922F	36
65	MC253 1922C	6
65	MC503 1922E	14
65	MC1003 1922F	26
65	MC1503 1922G	40
80	MC253 1922C	5
80	MC503 1922E	11
80	MC1003 1922F	20
80	MC1503 1922G	29
80	MH2503 1922L	40
100	MC253 1922C	2.8
100	MC503 1922E	6
100	MC1003 1922F	11
100	MC1503 1922G	20
100	MH2503 1922L	29
100	D249 (250 N.m)	40
125	MC253 1922C	1,8
125	MC503 1922E	4
125	MC1003 1922F	7
125	MC1503 1922G	11
125	MH2503 1922L	18

DN	ACTUATOR	Closing Pressure (bar g)
125	D249 (250 N.m)	40
150	MC253 1922C	1,2
150	MC503 1922E	2.6
150	MC1003 1922F	5
150	MC1503 1922G	7
150	MH2503 1922L	12
150	D249 (250 N.m)	29
200	MC503 1922E	1,5
200	MC1003 1922F	2,7
200	MC1503 1922G	4
200	MH2503 1922L	7
200	D249 (250 N.m)	16
200	D249 LE70.1	17
200	D500 LE100.1	34
200	D1000 LE200.1	40
250	MC1003 1922F	1,7
250	MC1503 1922G	2,5
250	MH2503 1922L	4
250	D249 (250 N.m)	10
250	D249 LE70.1	11
250	D500 LE100.1	21
250	D1000 LE200.1	36
300	MC1003 1922F	1,2
300	MC1503 1922G	1,8
300	MH2503 1922L	3
300	D249 (250 N.m)	7
300	D249 LE70.1	8
300	D500 LE100.1	16
300	D1000 LE200.1	26

WORKING CONDITIONS

CARBON STEEL	Temperature ºC	-10/120	150	200	250	300	350	400
	Pressure Bar	40	35,2	33,3	30,4	27,6	25,7	23,8

STAINLESS STEEL	Temperature ºC	-60/-10	-10/150	150	200	250	300	350	400
	Pressure Bar	40	40	36,3	33,7	31,8	29,7	28,5	27,4



BV25065 ELE

Carbon St. WCB (1.0619)
PN40 EN 1092-1
Temperature min. -10ºC
(For temp. up to -60ºC consult the manufacturer)
Temperature max.+400ºC

BV25066 ELE

Stainless St. CF8M (1.4408)
PN40 EN 1092-1
Temperature min. -60ºC
(For temp. up to -200ºC consult the manufacturer)
Temperature max.+400ºC

ZERO LEAKAGE
DIN: Rate A acc.EN12266-1

Face to face acc. to EN558-1
Flanges acc. to EN 1092-1 form B

Testing pressure in bar

Hydro	Body	60
	Seat	44
Air	Seat	07

CE 0052 — PED 2019/68/UE

HELIUM LEAKAGE TEST acc. VDI 2440

TA-LUFT VDI 2440

TÜV NORD — 2014/68/UE

ATEX 2019/34/UE

FIRESAFE — acc. API 607 5th

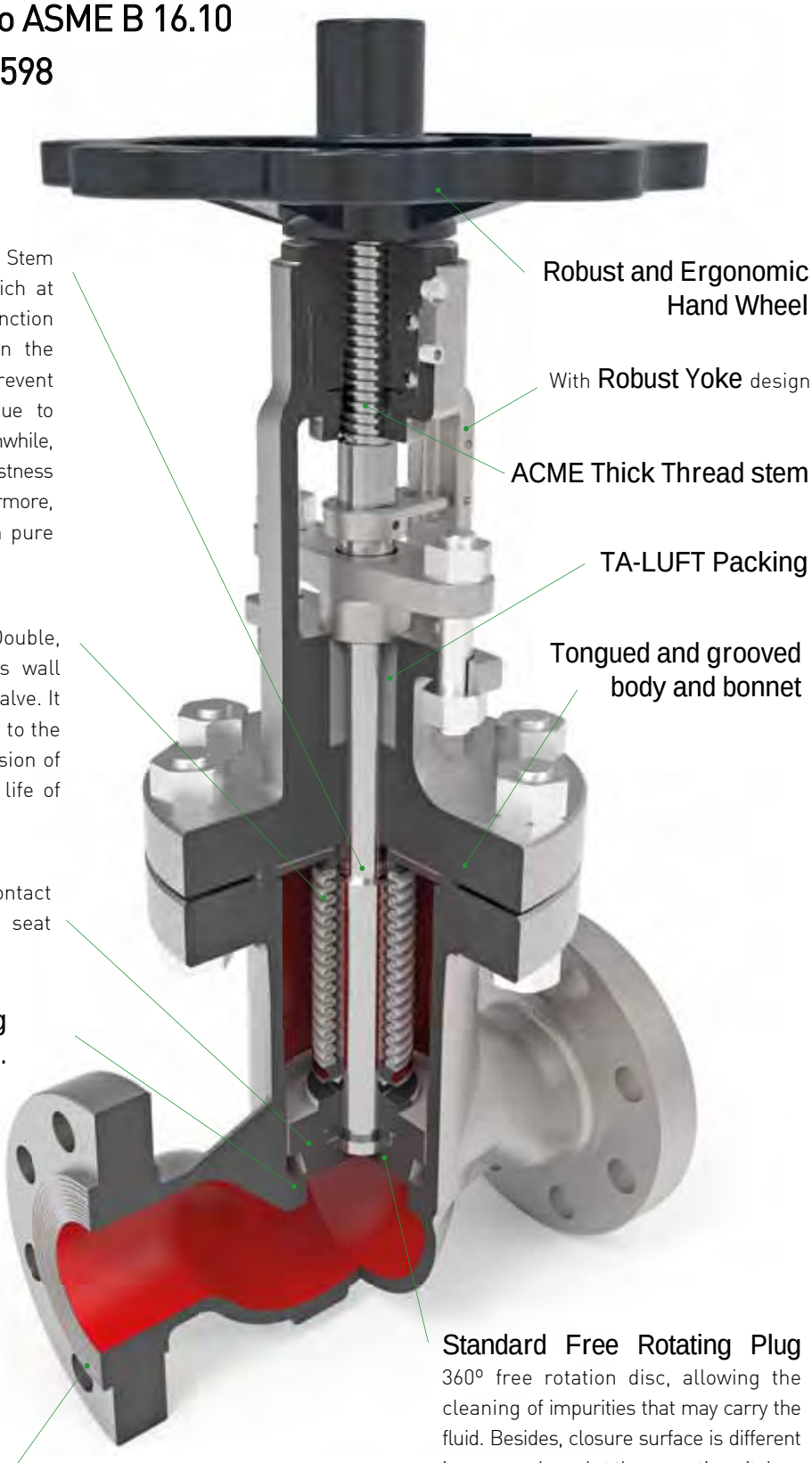
DIMENSIONS

DN	ØD (outer flange) diameter)	ØP (Bolt circle)	ØR	T (FGL. THK)	t	HOLE / Ø	L (Face to face)	STROKE	Weight (Kg)	MC253 1922C D1: Ø135 H	MC503 1922E D1: Ø135 H	MC1003 1922F D1: Ø135 H	MC1503 1922G D1: Ø135 H	MH2503 1922L D1: Ø250 H	D249 (250 N.m) D1: Ø360 H	D249 LE70.1 D1: Ø360 H	D500 LE100.1 D1: Ø529 H	D1000 LE200.1 D1: Ø579 H
15	95	65	45	16	2	4/Ø14	130	4	8.5	808	-	-	-	-	-	-	-	-
20	105	75	58	18	2	4/Ø14	150	5	9.5	810	-	-	-	-	-	-	-	-
25	115	85	68	18	2	4/Ø14	160	6.5	11.5	837	-	-	-	-	-	-	-	-
32	140	100	78	18	2	4/Ø18	180	8	17.0	839	-	-	-	-	-	-	-	-
40	150	110	88	18	3	4/Ø18	200	10	19.0	861	861	1076	-	-	-	-		
50	165	125	102	20	3	4/Ø18	230	13	21.5	887	887	1102	-	-	-	-	-	-
65	185	145	122	22	3	8/Ø18	290	16,5	33.5	937	937	1152	1152	-	-	-	-	-
80	200	160	138	24	3	8/Ø18	310	20	45.0	956	956	1176	1176	1111	-	-	-	-
100	235	190	162	24	3	8/Ø22	350	25	61.5	1036	1036	1256	1256	1191	893	-	-	-
125	270	220	188	26	3	8/Ø26	400	32	102.0	1098	1098	1323	1323	1258	955	-	-	-
150	300	250	218	28	3	8/Ø26	480	38	122.0	1160	1160	1385	1385	1320	1017	-	-	-
200	375	320	285	34	3	12/Ø30	600	51	222.0	-	1268	1493	1493	1428	1140	1140	1331	1350
250	450	385	345	38	3	12/Ø33	730	64	362.0	-	-	1662	1662	1597	1308	1308	1499	1518
300	515	450	410	42	4	16/Ø33	850	75	533.0	-	-	1871	1871	1806	1518	1518	1709	1728

approximate dimensions in mm

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

Valve design acc. to ASME B 16.34
Valve face to face to ASME B 16.10
Testing as per API 598



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. Meanwhile, mechanical stop adds robustness when valves are opened. Furthermore, our valves are equipped with pure graphite safety packings.

Multi Layer Bellows. Double, triple and quadruple bellows wall depending on the size of the valve. It is welded to the stem and not to the disc, preventing the transmission of vibrations and extending the life of the bellows.

Conical Plug. Lower contact surface between plug and seat enhances a tighter clousure.

Standard seat and plug hardfaced 13% Cr. overlay 150# and 300#

Flange end to ASME B 16.5 with raised face serrated finish

Robust and Ergonomic Hand Wheel

With **Robust Yoke** design

ACME Thick Thread stem

TA-LUFT Packing

Tongued and grooved body and bonnet

Standard Free Rotating Plug
360º free rotation disc, allowing the cleaning of impurities that may carry the fluid. Besides, closure surface is different in every cycle and at the same time, it does not transmit the vibrations to the valve stem and the bellows.

150# 300# 600# ANSI Bellows Sealed Valves
Carbon Steel A216 Gr. WCB

Straight type bellows sealed globe valves for demanding applications can be supplied in carbon steel 1.0619 / WCB and stainless steel 1.4408 / CF8M, both with flanged or buttweld ends.

Application (Carbon steel):

Powerstations, thermal oil processes, gas industry, processing technology, vapour facilities, recycling plants, vacuum installations, etc.

Medium (Carbon steel):

Medium and high pressure steam, superheated steam, gases, thermal oil, overheated water and gases, etc.

Application (Stainless steel):

Recycling plants, chemical industry, process water installations, process with aggressive media

Medium (Stainless steel):

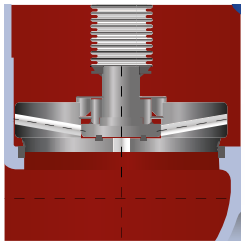
Process water, aggressive media, corrossive and toxic fluids, ethylen dioxide, H_2SO_4, etc.

CE 0052 TÜV NORD

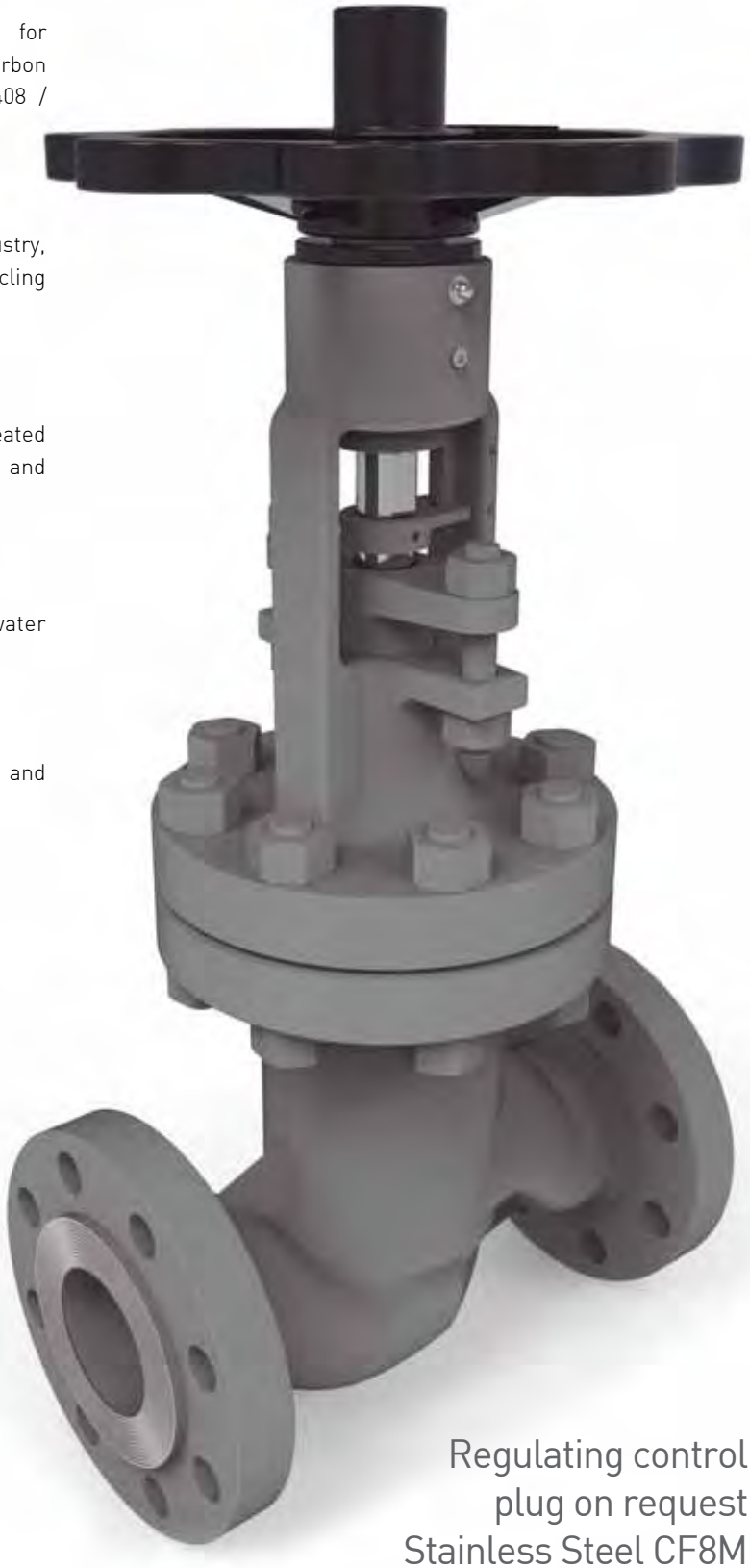
SPECIFICATIONS

Flange end to ASME B 16.5 with raised face serrated finish (3.2µm to 6.3µm on both ends)

STANDARD BALANCED PLUG:
300#: Valve size **8", 10", 12"** (DN200-DN300)
600# Valve size 6", **8", 10", 12"** (DN150-DN300)



Balanced plug



Regulating control plug on request
Stainless Steel CF8M valve on request

93 699 46 04 pedidos@suministrosrado.com www.suministrosrado.com

BV25065 ASA 150#

Carbon steel WCB (1.0619)

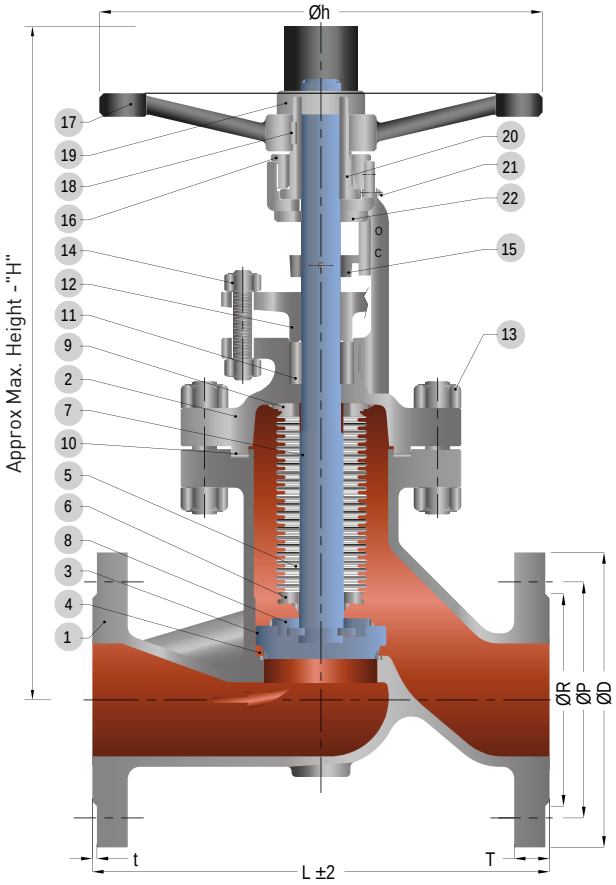
Temperature min. -29ºC

Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	30
	Seat	22
Air	Seat	07



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 216 Gr.WCB (1.0619)
2	Bonnet	ASTM- A 216 Gr.WCB (1.0619)
3	Plug	ASTM- A 216 Gr.WCB + 13% Cr. Overlay
4	Integral Seat	ASTM- A 216 Gr.WCB (1.0619) + 13% Cr. Overlay
5	Bellow	AISI - 321 / Aisi - 316ti
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 410
8	Stem Nut	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	ASTM-A 216 Gr.WCB
13	Fastener	ASTM-A193 Gr.b7 / A194 Gr.2H
14	Gland Stud & Nut	ASTM-A193 Gr.b7 / A194 Gr.2H
15	Indicator	Carbon Steel
16	Yoke Nut	ASTM-A 276 Type 410
17	Hand Wheel	SG Iron
18	Hand Wheel Key	Carbon Steel
19	Hand Wheel Nut/Cap	Carbon Steel
20	Yoke Sleeve	SG Iron
21	Grease Nipple	Carbon Steel
22	Guide Plate	Carbon Steel

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10
TESTING STD.- API 598

DIMENSIONS

NPS	Class Rating	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)
½"	150	90	60.3	34.9	9.6	2	4 / Ø16	108	172	5	277	7.0
¾"	150	100	69.9	42.9	11.2	2	4 / Ø16	117	172	5	280	8.5
1"	150	110	79.4	50.8	12.7	2	4 / Ø16	127	172	7	290	9.4
1 ½"	150	125	98.4	73.0	15.9	2	4 / Ø16	165	200	10	327	17
2"	150	150	120.7	92.1	17.5	2	4 / Ø19	203	200	13	355	19
2 ½"	150	180	139.7	104.8	20.7	2	4 / Ø19	216	250	16	430	33
3"	150	190	152.4	127.0	22.3	2	4 / Ø19	241	300	19	430	39.5
4"	150	230	190.5	157.2	22.3	2	8 / Ø19	292	300	26	516	56
6"	150	280	241.3	215.9	23.9	2	8 / Ø22	406	400	38	655	105
8"	150	345	298.5	269.9	27.0	2	8 / Ø22	495	450	51	785	180
10"	150	405	362.0	323.8	28.6	2	12 / Ø25	622	600	64	945	310

all dimensions in mm.

WORKING CONDITIONS

Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	19,6	17,7	15,8	12,1	9,3	7,4	6,5

BV25066 ASA 150#

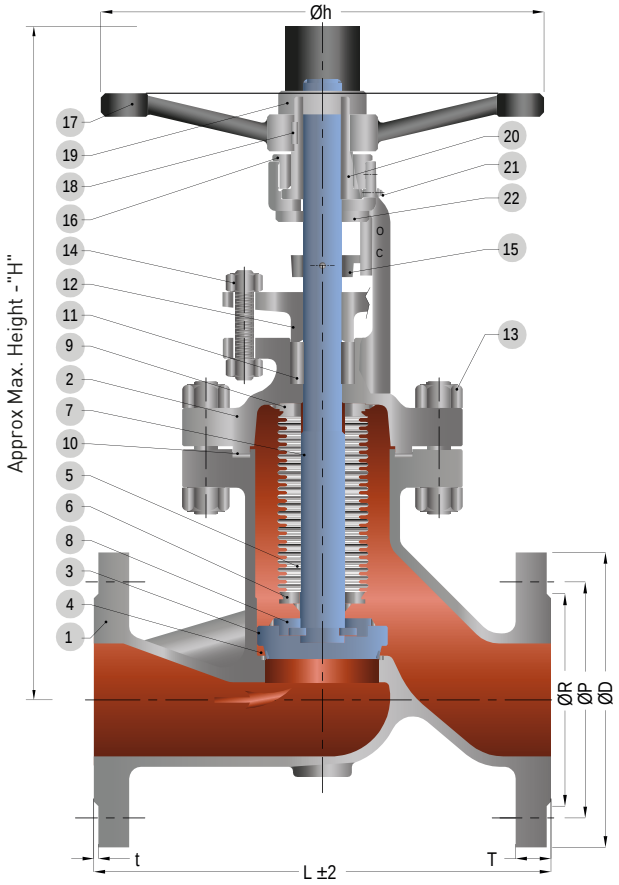
Stainless Steel CF8M (1.4408)

Temperature min. -60ºC
Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	29
	Seat	21
Air	Seat	07



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 351 Gr.CF8M (1.4408)
2	Bonnet	ASTM - A 351 Gr.CF8M (1.4408)
3	Plug	ASTM - A 351 Gr.CF8M (1.4408) + Stellite Gr.6
4	Integral Seat	ASTM - A 351 Gr.CF8M (1.4408) + Stellite Gr.6
5	Bellow	AISI - 316Ti
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 316
8	Stem Nut	ASTM- A 276 Type 316
9	Top Collar	ASTM- A 276 Type 316
10	Gasket	SPW - SS 316 + Graphite
11	Packing	Graphite
12	Gland Bush/Flange	ASTM - A 351 Gr.CF8M
13	Fastener	ASTM-A193 Gr.B8M/A194 Gr.8M
14	Gland Stud & Nut	ASTM-A193 Gr.B8M/A194 Gr.8M
15	Indicator	ASTM - A 351 Gr.CF8M
16	Yoke Nut	ASTM - A 276 TYPE 316
17	Hand Wheel	SG Iron / IS 2062 Gr. E 250 A
18	Hand Wheel Key	AISI - 316
19	Hand Wheel Nut/Cap	AISI - 316
20	Yoke Sleeve	SG Iron
21	Grease Nipple	AISI - 316
22	Guide Plate	AISI - 316

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10
TESTING STD.- API 598

DIMENSIONS

NPS	Class Rating	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)
½"	150	90	60.3	34.9	9.6	2	4 / Ø16	108	172	5	277	7.0
¾"	150	100	69.9	42.9	11.2	2	4 / Ø16	117	172	5	280	8.5
1"	150	110	79.4	50.8	12.7	2	4 / Ø16	127	172	7	290	9.4
1 ½"	150	125	98.4	73.0	15.9	2	4 / Ø16	165	200	10	327	17
2"	150	150	120.7	92.1	17.5	2	4 / Ø19	203	200	13	355	19
2 ½"	150	180	139.7	104.8	20.7	2	4 / Ø19	216	250	16	430	33
3"	150	190	152.4	127.0	22.3	2	4 / Ø19	241	300	19	430	39.5
4"	150	230	190.5	157.2	22.3	2	8 / Ø19	292	300	26	516	56
6"	150	280	241.3	215.9	23.9	2	8 / Ø22	406	400	38	655	105
8"	150	345	298.5	269.9	27.0	2	8 / Ø22	495	450	51	785	180
10"	150	405	362.0	323.8	28.6	2	12 / Ø25	622	600	64	945	310

all dimensions in mm.

WORKING CONDITIONS

Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	19,0	16,2	14,8	12,1	9,3	7,4	6,5

*CF8M valves can be used from -60 ºC

BV25065 ASA 300#

Carbon steel WCB (1.0619)

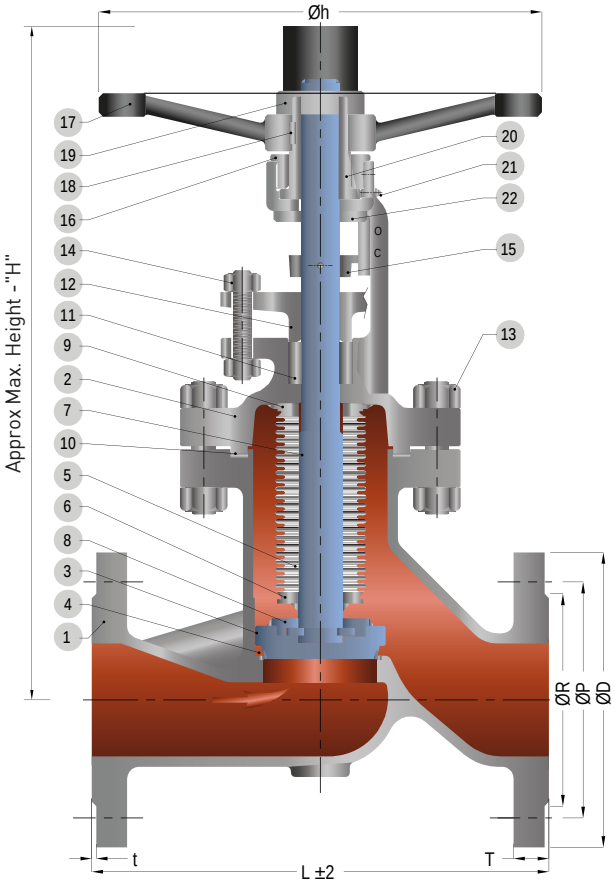
Temperature min. -29ºC

Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	77
	Seat	57
Air	Seat	07



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 216 Gr.WCB (1.0619)
2	Bonnet	ASTM- A 216 Gr.WCB (1.0619)
3	Plug	ASTM- A 216 Gr.WCB + 13% Cr. Overlay
4	Integral Seat	ASTM- A 216 Gr.WCB (1.0619) + 13% Cr. Overlay
5	Bellow	AISI - 321 / Aisi - 316ti
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 410
8	Stem Nut	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	ASTM-A 216 Gr.WCB
13	Fastener	ASTM-A193 Gr.b7 / A194 Gr.2H
14	Gland Stud & Nut	ASTM-A193 Gr.b7 / A194 Gr.2H
15	Indicator	Carbon Steel
16	Yoke Nut	ASTM-A 276 Type 410
17	Hand Wheel	SG Iron
18	Hand Wheel Key	Carbon Steel
19	Hand Wheel Nut/Cap	Carbon Steel
20	Yoke Sleeve	SG Iron
21	Grease Nipple	Carbon Steel
22	Guide Plate	Carbon Steel

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10
TESTING STD.- API 598

DIMENSIONS

NPS	Class Rating	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)
½"	300	95	66.7	34.9	12.7	2	4 / Ø16	152	172	5	290	9.2
¾"	300	115	82.6	42.9	14.3	2	4 / Ø19	178	172	5	290	9.8
1"	300	125	88.9	50.8	15.9	2	4 / Ø19	203	172	7	305	12.5
1 ½"	300	155	114.3	73.0	19.1	2	4 / Ø22	229	200	10	335	22
2"	300	165	127.0	92.1	20.7	2	8 / Ø19	267	200	13	355	25
2 ½"	300	190	149.2	104.8	23.9	2	8 / Ø22	292	250	16	440	40
3"	300	210	168.3	127.0	27.0	2	8 / Ø22	318	300	19	450	58
4"	300	255	200.0	157.2	30.2	2	8 / Ø22	356	300	26	545	79
6"	300	320	269.9	215.9	35.0	2	12 / Ø22	444	400	38	690	137
8"	300	380	330.2	269.9	39.7	2	12 / Ø25	559	450	51	810	260
10"	300	445	387.4	323.8	46.1	2	16 / Ø28	622	600	64	950	395

all dimensions in mm.

WORKING CONDITIONS

Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	51,7	46,6	45,1	41,9	38,7	36,4	34,7

BV25066 ASA 300#

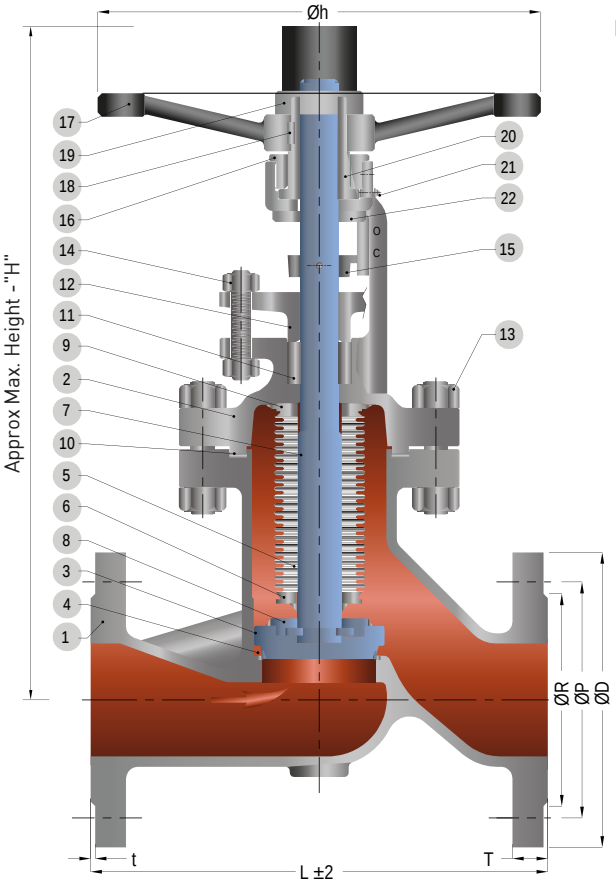
Stainless Steel CF8M (1.4408)

Temperature min. -60ºC
Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	75
	Seat	55
Air	Seat	07



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 351 Gr.CF8M (1.4408)
2	Bonnet	ASTM - A 351 Gr.CF8M (1.4408)
3	Plug	ASTM - A 351 Gr.CF8M (1.4408) + Stellite Gr.6
4	Integral Seat	ASTM - A 351 Gr.CF8M (1.4408) + Stellite Gr.6
5	Bellow	AISI - 316Ti
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 316
8	Stem Nut	ASTM- A 276 Type 316
9	Top Collar	ASTM- A 276 Type 316
10	Gasket	SPW - SS 316 + Graphite
11	Packing	Graphite
12	Gland Bush/Flange	ASTM - A 351 Gr.CF8M
13	Fastener	ASTM-A193 Gr.B8M/A194 Gr.8M
14	Gland Stud & Nut	ASTM-A193 Gr.B8M/A194 Gr.8M
15	Indicator	ASTM - A 351 Gr.CF8M
16	Yoke Nut	ASTM - A 276 TYPE 316
17	Hand Wheel	SG Iron / IS 2062 Gr. E 250 A
18	Hand Wheel Key	AISI - 316
19	Hand Wheel Nut/Cap	AISI - 316
20	Yoke Sleeve	SG Iron
21	Grease Nipple	AISI - 316
22	Guide Plate	AISI - 316

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10
TESTING STD.- API 598

DIMENSIONS

NPS	Class Rating	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)
½"	300	95	66.7	34.9	12.7	2	4 / Ø16	152	172	5	290	9.2
¾"	300	115	82.6	42.9	14.3	2	4 / Ø19	178	172	5	290	9.8
1"	300	125	88.9	50.8	15.9	2	4 / Ø19	203	172	7	305	12.5
1 ½"	300	155	114.3	73.0	19.1	2	4 / Ø22	229	200	10	335	22
2"	300	165	127.0	92.1	20.7	2	8 / Ø19	267	200	13	355	25
2 ½"	300	190	149.2	104.8	23.9	2	8 / Ø22	292	250	16	440	40
3"	300	210	168.3	127.0	27.0	2	8 / Ø22	318	300	19	450	58
4"	300	255	200.0	157.2	30.2	2	8 / Ø22	356	300	26	545	79
6"	300	320	269.9	215.9	35.0	2	12 / Ø22	444	400	38	690	137
8"	300	380	330.2	269.9	39.7	2	12 / Ø25	559	450	51	810	260
10"	300	445	387.4	323.8	46.1	2	16 / Ø28	622	600	64	950	395

all dimensions in mm.

WORKING CONDITIONS

Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	49,6	42,2	38,5	33,4	30,9	29,9	29,4

*CF8M valves can be used from -60 ºC

BV25065 ASA 600#

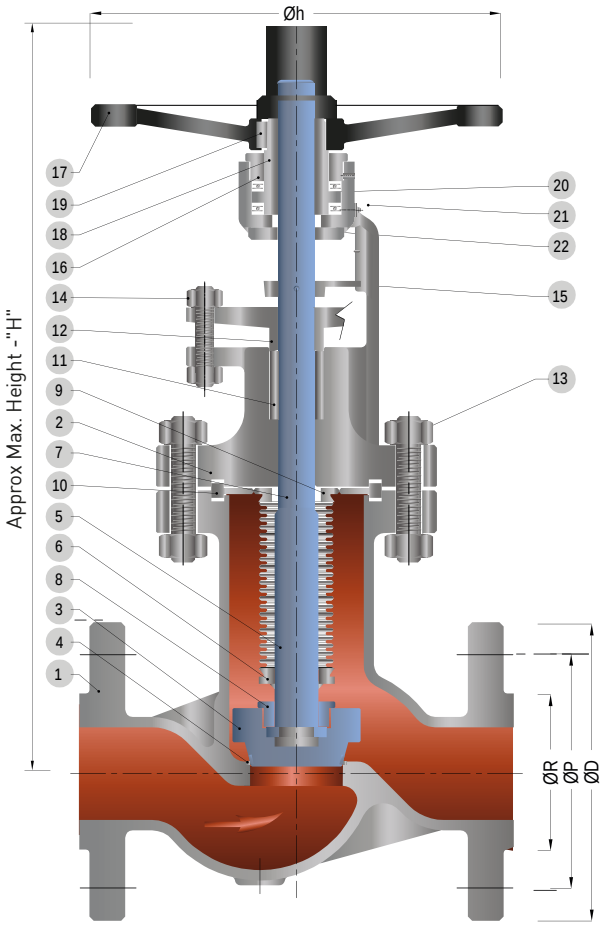
Carbon steel WCB (1.0619)

Temperature min. -29ºC
Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	103
	Seat	103



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 216 Gr.WCB (1.0619)
2	Bonnet	ASTM- A 216 Gr.WCB (1.0619)
3	Plug	ASTM - A 276 TP 410 / CA15 + STELLITE Gr. 6
4	Integral Seat	ASTM- A 216 Gr.WCB (1.0619) + STELLITE Gr. 6
5	Bellow	AISI - 321
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 410
8	Stem Nut	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	ASTM-A 216 Gr.WCB
13	Fastener	ASTM-A193 Gr.b7 / A194 Gr.2H
14	Gland Stud & Nut	ASTM-A193 Gr.b7 / A194 Gr.2H
15	Indicator	Carbon Steel
16	Yoke Nut	ASTM-A 276 Type 410
17	Hand Wheel	SG Iron / IS 2062 Gr. E 250 A
18	Hand Wheel Key	Carbon Steel
19	Hand Wheel Nut/Cap	Carbon Steel
20	Yoke Sleeve	ASTM - A 439 Gr.D2
21	Grease Nipple	Carbon Steel
22	Guide Plate	Carbon Steel

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10
TESTING : AS PER API 598

DIMENSIONS

NPS	Class Rating	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)
½"	600	95	66.7	35	14.3	7	4 / Ø16	165	172	5	330	12,5
¾"	600	115	82.6	43	15.9	7	4 / Ø19	190	172	5	382	19,5
1"	600	125	88.9	51	17.5	7	4 / Ø19	216	172	6.5	390	21
1 ½"	600	155	114.3	73.0	22.3	7	4 / Ø22	241	250	10	487	33
2"	600	165	127.0	92.0	25.4	7	8 / Ø19	292	250	13	495	38
2 ½"	600	190	149.2	104.8	28.6	7	8 / Ø22	330	300	16	545	64
3"	600	210	168.3	127.0	31.8	7	8 / Ø22	356	300	19	571	75
4"	600	275	215.9	157.2	38.1	7	8 / Ø25	432	350	26	699	168
6"	600	355	292.1	215.9	47.7	7	12 / Ø28	559	450	38	837	388
8"	600	420	349.2	269.9	55.6	7	12 / Ø32	660	600	50	1100	495
10"	600	510	431.8	323.8	63.5	7	16 / Ø35	787	600	63	1170	700

all dimensions in mm.

WORKING CONDITIONS

Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	102,1	93,2	90,2	83,9	77,4	72,7	69,4

BV25066 ASA 600#

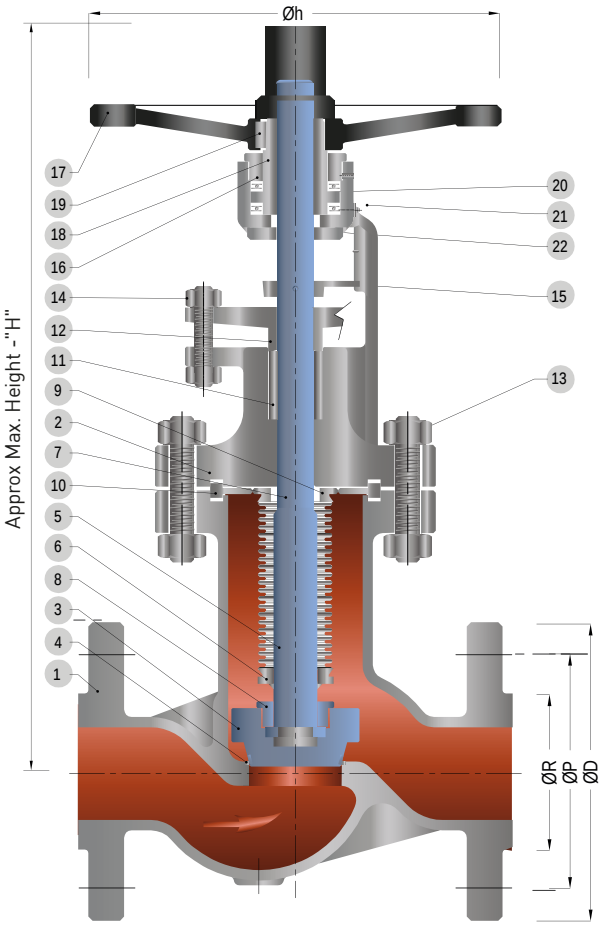
Stainless Steel CF8M (1.4408)

Temperature min. -60ºC
Temperature max.+400ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	100
	Seat	100



MATERIALS

Nº	COMPONENT	MATERIALS
1	Body	ASTM - A 351 Gr.CF8M (1.4408)
2	Bonnet	ASTM - A 351 Gr.CF8M (1.4408)
3	Plug	ASTM - A 351 Gr.CF8M (1.4408) + Stellite
4	Integral Seat	ASTM - A 351 Gr.CF8M (1.4408) + Stellite
5	Bellow	AISI - 321
6	Bellow Collar	ASTM- A 276 Type 316
7	Stem	ASTM- A 276 Type 316
8	Stem Nut	ASTM-A 276 Type 316 A351 Gr.CF8M
9	Top Collar	ASTM- A 276 Type 316
10	Gasket	SPW - SS 316 + Graphite
11	Packing	Graphite
12	Gland Bush/Flange	ASTM - A 351 Gr.CF8M
13	Fastener	ASTM-A193 Gr.B8M/A194 Gr.8M
14	Gland Stud & Nut	ASTM-A193 Gr.B8M/A194 Gr.8M
15	Indicator	ASTM - A 351 Gr.CF8M
16	Yoke Nut	ASTM - A 276 TYPE 304
17	Hand Wheel	SG Iron / IS 2062 Gr. E 250 A
18	Hand Wheel Key	ASTM - A 351 Gr.CF8
19	Hand Wheel Nut/Cap	ASTM - A 351 Gr.CF8
20	Yoke Sleeve	ASTM - A 439 Gr.D2
21	Grease Nipple	AISI - 304
22	Guide Plate	ASTM - A 351 Gr.CF8

ZERO LEAKAGE: ASME B 16.34
Face to face acc. to ASME B 16.10

DIMENSIONS

NPS	Class Rating	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)
½"	600	95	66.7	35	14.3	7	4 / Ø16	165	172	5	330	12,5
¾"	600	115	82.6	43	15.9	7	4 / Ø19	190	172	5	382	19,5
1"	600	125	88.9	51	17.5	7	4 / Ø19	216	172	6.5	390	21
1 ½"	600	155	114.3	73.0	22.3	7	4 / Ø22	241	250	10	487	33
2"	600	165	127.0	92.0	25.4	7	8 / Ø19	292	250	13	495	38
2 ½"	600	190	149.2	104.8	28.6	7	8 / Ø22	330	300	16	545	64
3"	600	210	168.3	127.0	31.8	7	8 / Ø22	356	300	19	571	75
4"	600	275	215.9	157.2	38.1	7	8 / Ø25	432	350	26	699	168
6"	600	355	292.1	215.9	47.7	7	12 / Ø28	559	450	38	837	388
8"	600	420	349.2	269.9	55.6	7	12 / Ø32	660	600	50	1100	495
10"	600	510	431.8	323.8	63.5	7	16 / Ø35	787	600	63	1170	700

all dimensions in mm.

WORKING CONDITIONS

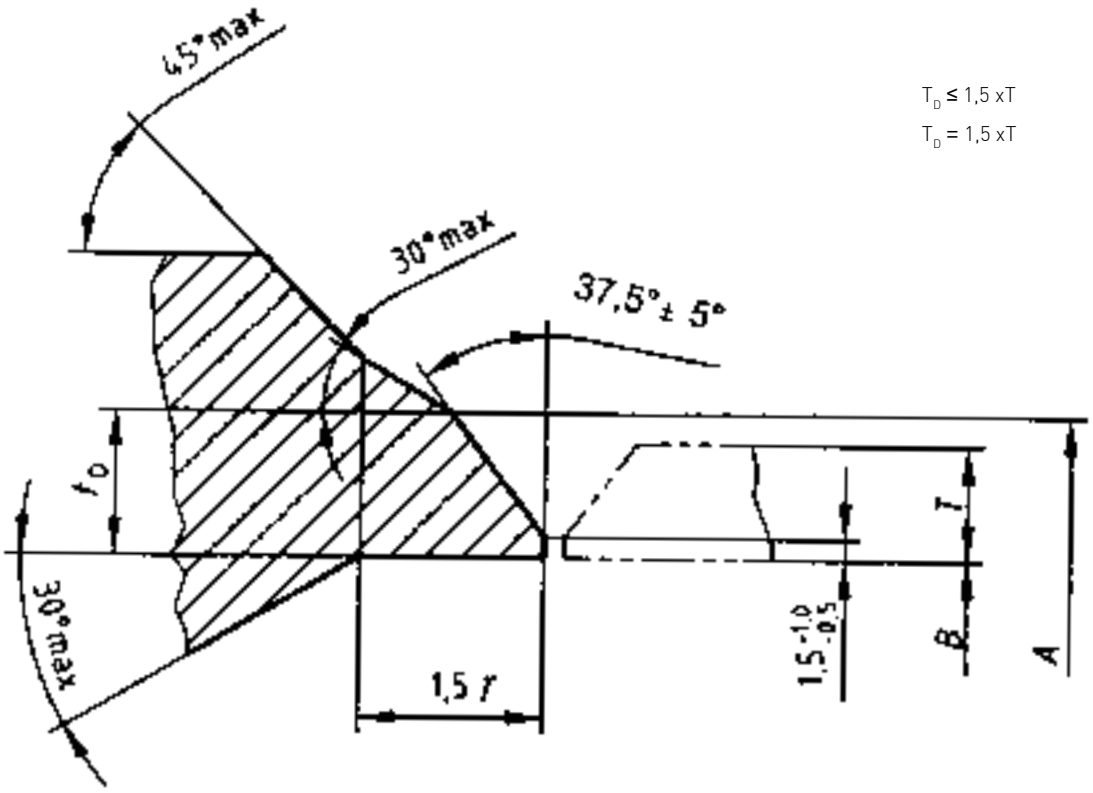
Temperature ºC	-29/38	100	150	250	325	375	400
Pressure Bar	99,3	84,4	76	66,8	61,8	59,8	58,9

*CF8M valves can be used from -60 ºC

Butt weld ends connections

for carbon steel and stainless steel DIN valves*

Edge shapping acc. to DIN EN 12627



$T_D \leq 1,5 \times T$

$T_D = 1,5 \times T$

Single-V butt weld end connection to pipe of wall thickness 4 mm ≤ 22 mm

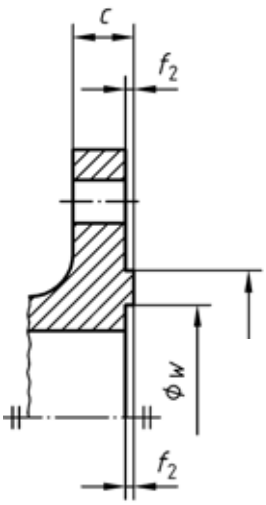
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
Butt Weld ends according to DIN EN 12627															
L	(mm)	130,00	150,00	160,00	180,00	200,00	230,00	290,00	310,00	350,00	400,00	480,00	600,00	730,00	850,00
ØA	(mm)	22,00	28,00	35,00	44,00	50,00	62,00	77,00	91,00	117,00	144,00	172,00	223,00	278,00	329,00
ØB	(mm)	17,30	22,30	28,50	37,20	43,10	53,90	68,90	80,90	105,30	130,70	157,10	204,90	257,00	307,90
T	(mm)	2,00	2,30	2,60	2,60	2,60	3,20	3,60	4,00	4,50	4,50	5,60	7,10	8,00	8,00
ØP	(mm)	21,30	26,90	33,70	42,40	48,30	60,30	76,10	88,90	114,30	139,70	168,30	219,10	273,00	323,90

Face to face dimension according to DIN EN 12982 (EN558-1)
Butt Weld ends according to DIN EN 12627 Fig 4
Pipe according to DIN EN EN 10220 (ISO 4200)

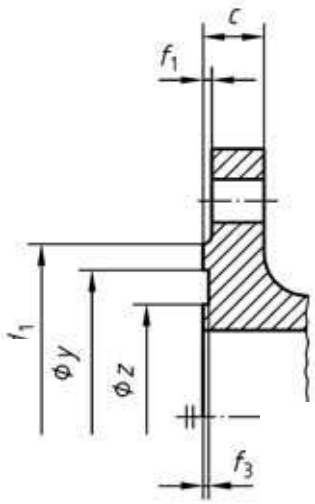
* Consult for ANSI bellows sealed valve

Other flange connections

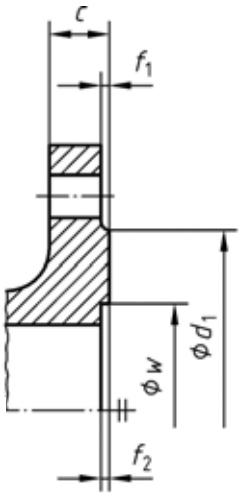
for carbon steel and stainless steel PN40 DIN valves*



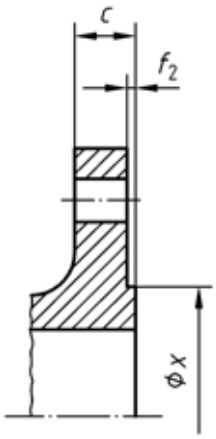
Type C: Tongue



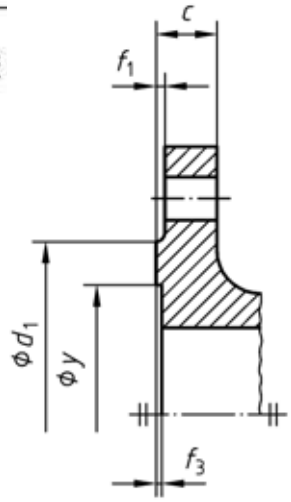
Type D: Groove



Type G: O-ring spigot



Type E: Spigot



Type F: Recess

Flange connections according to EN 1092-1

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN16	d_1	45	58	68	78	88	102	122	138	158	188	212	268	320	378
PN25	d_1	45	58	68	78	88	102	122	138	162	188	218	278	335	395
PN40	d_1	45	58	68	78	88	102	122	138	162	188	218	285	345	410
PN16 PN25 PN40	f_1	2	2	2	2	3	3	3	3	3	3	3	3	3	4
	f_2	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	5	5	5	5	5	5
	f_3	4	4	4	4	4	4	4	4	4,5	4,5	4,5	4,5	4,5	4,5
	f_4	2	2	2	2	2	2	2	2	2,5	2,5	2,5	2,5	2,5	2,5
	W^b	29	36	43	51	61	73	95	106	129	155	183	239	292	343
	x	39	50	57	65	75	87	109	120	149	175	203	259	312	363
	y	40	51	58	66	76	88	110	121	150	176	204	260	313	364
	Z^b	28	35	42	50	60	72	94	105	128	154	182	238	291	342
	$\alpha \approx$	-	-	41°	41°	41°	41°	41°	41°	32°	32°	32°	32°	32°	32°
	R	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3	3	3	3	3	3

Face to face dimensions according to DIN EN 12982 (EN558-1)
Flange ends according to EN1092-1

NOTE 1 Dimension C includes the raised face thickness
NOTE 2 Cross section diameter of the O-ring is 2 × R

Accessories

Handwheel operated valves

» Special flange sealing surface for special tightness requirements
According EN 1092-1 forms C,D,E,F,G,H (differing form B)

» Limit Switches
Set of one or two mechanical limit switches with vertical or horizontal installation

» Free from oil and grease treatment ready for oxygen application

» X-RAY Test for flange end connection
Analysis of potential volumetric defaults in castings

» X-RAY Test for buttweld end connection
Analysis of potential volumetric defaults in castings

» Chain Locking Device
Security method to avoid non authorized operations

» Automation
Possibility of equipping valves with pneumatic or electric actuators

Nominal Pressure	PN 16		PN 25	PN 40		150# 300# 600#	
Material	Cast Iron	Nodular Cast Iron	Nodular Cast Iron	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
Figure	BV25061	BV25064	BV25063	BV25065	BV25066	25065ASA	25066ASA
AVAILABLE OPTIONS UNDER REQUEST							
Specialflange sealing surface	X	X	X	X	X	X	X
Limit switches	X	X	X	X	X	X	X
Free from oil & grease treatment	X	X	X	X	X	X	X
Leaking detection port	X	X	X	X	X	X	X
X-RAY test for flange connections	X	X	X	X	X	X	X
X-RAY test for buttweld connections				X	X	X	X
Packing and gasket in PTFE (+200°C)				X	X	X	X
Packing and gasket in gylon (+280°C)				X	X	X	X
Chain locking device	X	X	X	X	X	X	X
Automation				X	X	X	X
Throttling plug	X	X	X	X	X	X	X
Soft sealing in gylon or PTFE	X	X	X	X	X	X	X

Accessories

Pneumatic actuated valves

Limit switch

For signalling the end-positions of the valve.
- Mechanical electric limit switches
- inductive limit switches

Emergency handwheel

Solenoid valves

Air set

Valve positioner

- pneumatic
- electro-pneumatic

Electric actuated valves

	ACTUATOR INFORMATION	ACTUATOR ACCESSORIES
Type	Linear actuator with modern microprocessor technology, variably adjustable, universal to use with automatic self-calibration on start-up.	Mechancial position switches
Stroke Indicator	Mechanical position indicator	Digital stroke indicator
HandWheel		Power Supply **24V DC** or **115V AC**
Protective Insulation	Improved protection with insulation class, 230V AC requires no protective conductor	Output signal X 0...20mA or X 4...20mA
Electrical Connection	Power supply 24V AC or 230V AC, 50-60 Hz, with terminals MC15 with cable.	
Input signal	Y 0(2)...10V DC / 0(4)...20mA or Control 3-point (3-P)	
Output Signal	X 0...10V DC	

BVALVE thermal blanket insulation

BVALVE thermal blanket insulation is a CAD designed, CNC produced, high quality pre-engineered insulation system designed to save energy, capture radiant heat, minimize insulation maintenance and improve the surrounding work environment. It is capable of withstanding severe indoor and outdoor environments. BVALVE thermal blanket is flexible, easy to install, remove and reinstall, allowing quick access and easy equipment serviceability. The key benefit is “Re-Usability”.

Applications and Markets:
Steam & hot water: this design is to act as a thermal barrier with a maximum service temperature of 232˚C.

Energy Conservation

We offer energy survey services to save valuable energy to our customers, average payback period is 6-18

Thermal Efficiency

Excellent Thermal Insulation Performance

Noise Reduction

Designed to reduce harmful noise levels and improve the surrounding work environment

Safety

Our insulation protects employees from burns caused by accidental contact with hot surfaces.

Design Features

1.“D”ring strap fastener with Velcro® tab

2.Stainless steel wiretwist fastener

3.Side release buckle with nylon strap fastener

4.Wind flap with draw cord

5.Two-piece construction (separate body and bonnet)

6.Riveted and embossed ID tag

7.Double sewn lock stitch construction

8.Teflon PTFE fiberglass cloth

9.Side release buckle with nylon strap fastener

Product Properties Specifications:

Insulation Core: standard specification for fiberglass needled fiber felt thermal insulation
ASTM C 1086-88 Service temperature up to 649˚C

Jacketing Materials: Outer Layer: silicone fiberglass composite material weight 577g/m² (17.0 oz/yd²)
silicone & fiberglass respective continuous service temperature 249˚C (480˚F)
Tensile Strength of Jacketing:
Warp: 3128 N/50 mm (350 lbs/in) / Fill: 2681 N/mm (300 lbs/in)
Inner layer: silicone fiberglass composite material weight 577g/m² (17.0 oz/yd²)

Blanket thickness surface temperature reference:

Operating Temp	Thickness	Surface Temp	Thickness	Surface Temp	Thickness	Surface Temp
121˚C (250˚F)	25 mm(1")	37.9˚C (100.2˚F)	40 mm(1.5")	33.3˚C (92.0˚F)	50 mm (2")	30.8˚C (87.4˚F)
149˚C (300˚F)	25 mm(1")	42.6˚C (108.6˚F)	40 mm (1.5")	36.8˚C (98.2˚F)	50 mm (2")	33.5˚C (92.3˚F)
177˚C (350˚F)	25 mm(1")	47.3 ˚C (117.2˚F)	40 mm (1.5")	40.3˚C (104.6˚F)	50 mm (2")	36.3˚C (97.4˚F)
204˚C (400˚F)	25 mm(1")	52.2˚C (126.0˚F)	40 mm (1.5")	44.0 ˚C (111.2˚F)	50 mm (2")	39.3 ˚C (102.7˚F)
232˚C (450˚F)	25 mm(1")	57.2˚C (135.1˚F)	40 mm (1.5")	47.8 ˚C (118.0˚F)	50 mm (2")	42.3 ˚C (108.2˚F)

BVALVE Gland packing globe valves

BVALVE Globe Valves include flanges designed according to EN 1092-2, face to face distance as per EN 558-1, ACME threaded stem screws and grounded shafts.

Further premium characteristics include, safety stuffing box packing made of pure graphite.

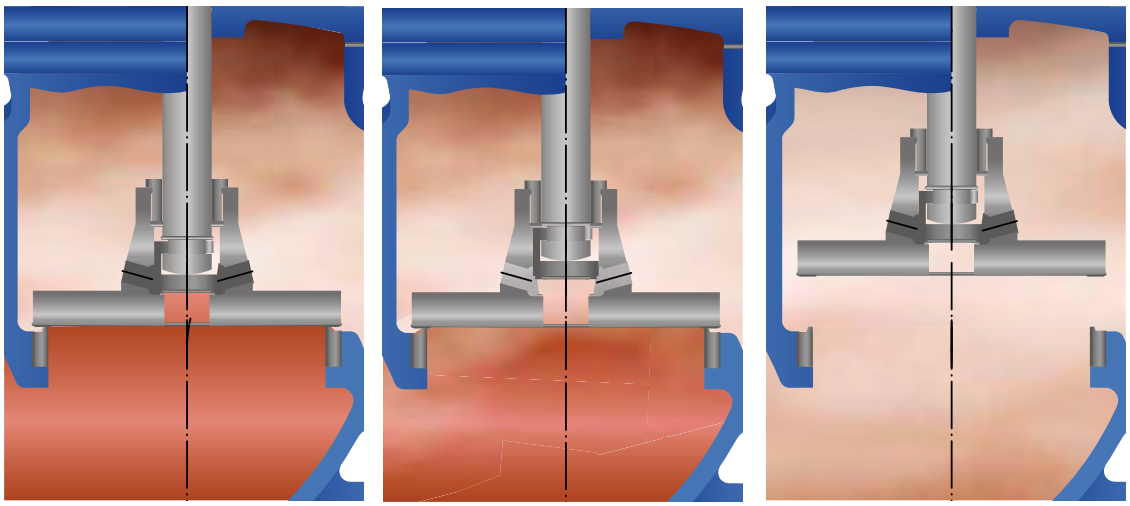
Body/bonnet compiled housed in tongue and grooved flanges. Besides, the plug has 360º free rotating configuration.

CE 0052 TÜV NORD

Standard balanced disc for DN250 and DN300

The use of balance disc is essential in case of high pressure to lighten the effort of valve manoeuvre. Over the limits shown in the table it is recom-mended to fit the valve in the opposite direction, i.e. With the pressure on the disc, obviously the balanced type.

BVALVE valves are equipped standar with balanced plug in sizes DN250 and DN300. This feature allows our valves to be operated under full rating pressure..16barg

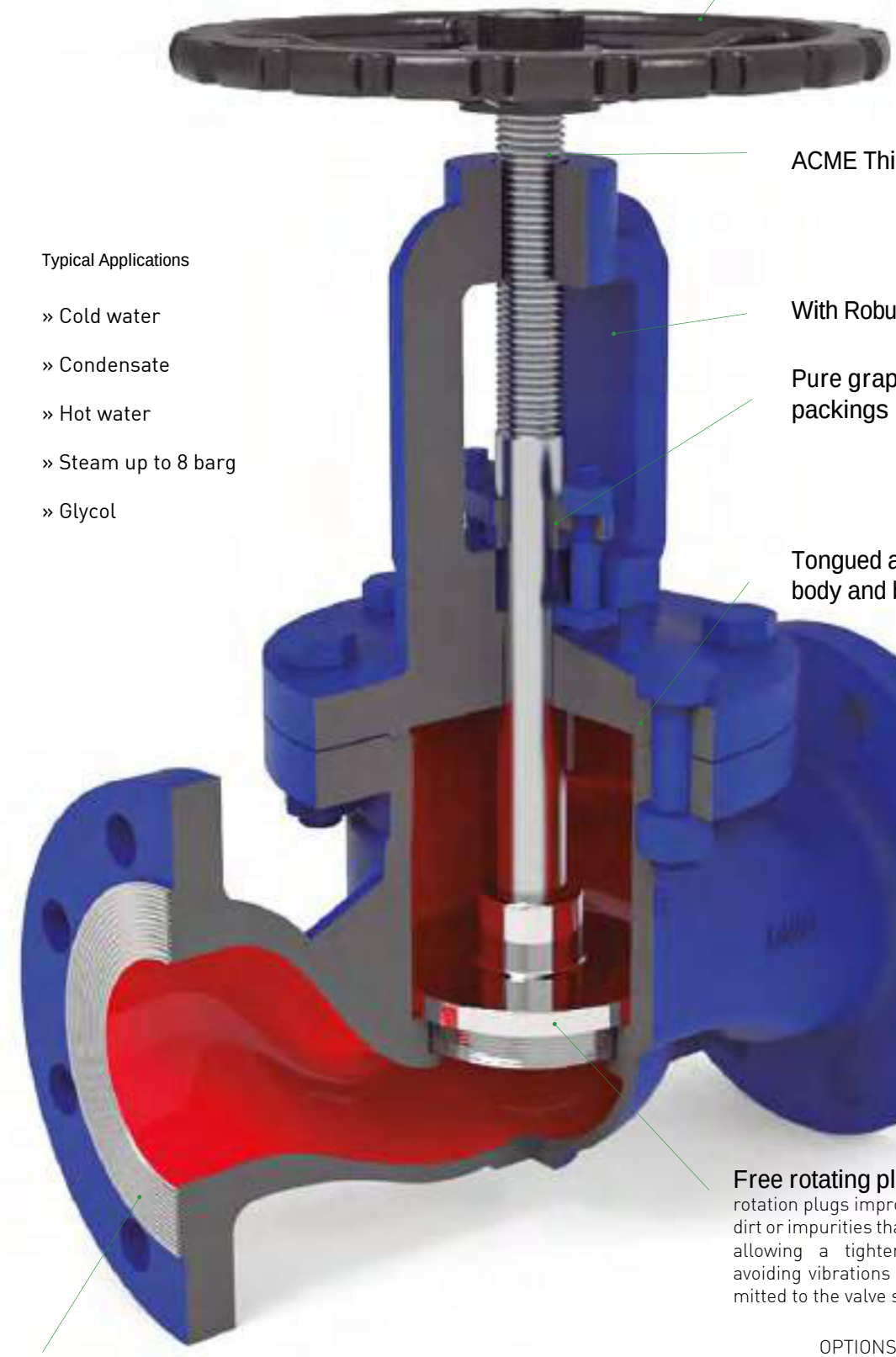


Phase 1:
The valve is completely closed

Phase 2:
The little/first disc opens and the pressure in the valve is balanced

Phase 3:
The valve is completely open.

Gland packing globe valves - Features



Robust and ergonomic hand wheel

ACME Thick thread stem

With Robust Yoke design

Pure graphite safety packings

Tongued and grooved body and bonnet

Typical Applications

» Cold water

» Condensate

» Hot water

» Steam up to 8 barg

» Glycol

Free rotating plug. Our 360º free rotation plugs improve the cleaning of dirt or impurities that fluids may carry, allowing a tighter clousure while avoiding vibrations from being transmitted to the valve stem.

Flange faces acc. EN 1092

OPTIONS UNDER REQUEST

Free of oil and grease surface treatment

Free of oil and grease surface treatment ready for oxygen application

BV25060 | PN16 EN 1092-2

Cast Iron EN-JL-250

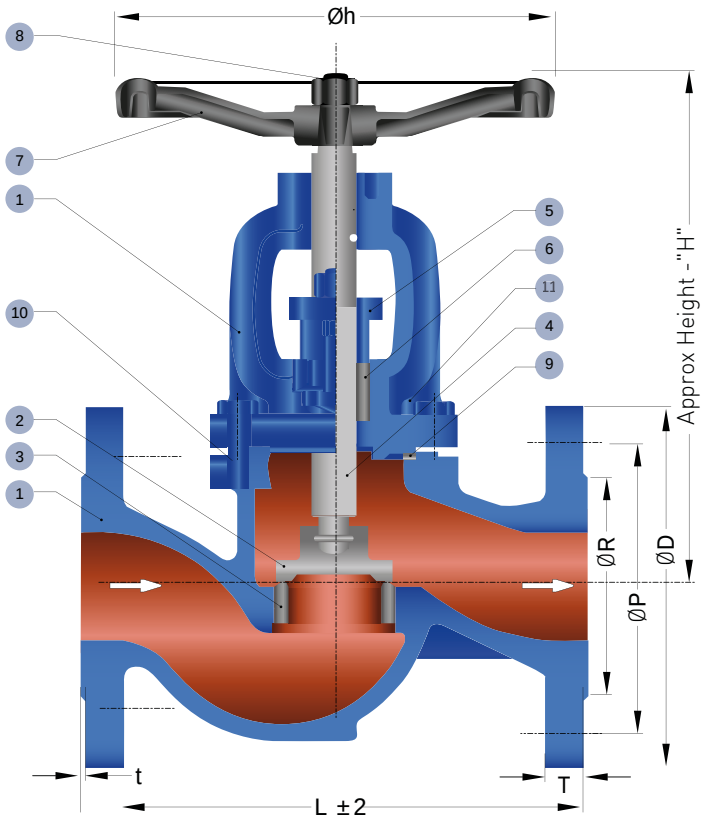
Temperature min. -10ºC

Temperature max. +200ºC

CE 0052 TÜV NORD

Testing pressure in bar

Hydro	Body	24
	Seat	18
Air	Seat	07



Nº	COMPONENT	MATERIALS
1	Body & Bonnet DN15-DN150 DN200-DN300	 EN-GJL-250 (0.6025) EN-GJL-250 (0.6025)
2	Plug	A420 (1.4021)
3	Seat	A420 (1.4021)
4	Stem	A420 (1.4021)
5	Gland	GG20 (0.6020)
6	Packing	Expanded graphite
7	Hand Wheel	EN-GJS-450-10 (5.3107)
8	Hand Wheel Nut	C25 (1.0406)
9	Bonnet Gasket	C10E (1.1121) + expanded graphite
10	Bolt	C35 (1.0501)
11	Nuts	C25 (1.0406)

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	16	95	65	46	14	2	4/Ø14	130	100	13	182	3,5
20	16	105	75	56	16	2	4/Ø14	150	100	12	174	4,0
25	16	115	85	65	16	3	4/Ø14	160	120	17	195	5,5
32	16	140	100	76	18	3	4/Ø19	180	140	20	236	8,0
40	16	150	110	84	18	3	4/Ø19	200	140	27	229	10,0
50	16	165	125	99	20	3	4/Ø19	230	200	39	241	14,0
65	16	185	145	118	20	3	4/Ø19	290	200	40	283	21,0
80	16	200	160	132	22	3	8/Ø19	310	240	52	323	28,0
100	16	220	180	156	24	3	8/Ø19	350	280	58	349	41,0
125	16	250	210	184	26	3	8/Ø19	400	360	61	411	60,0
150	16	285	240	211	26	3	8/Ø23	480	360	73	451	78,0
200	16	340	295	266	30	3	12/Ø23	600	400	80,5	495	122,0

all dimensions in mm.

WORKING CONDITIONS			
Temperature ºC	-10/120	150	200
Pressure Bar	16	14,4	12,8

BV25060 | PN16 EN 1092-2

Nodular cast Iron EN-GJS-400-15

Temperature min. -10ºC

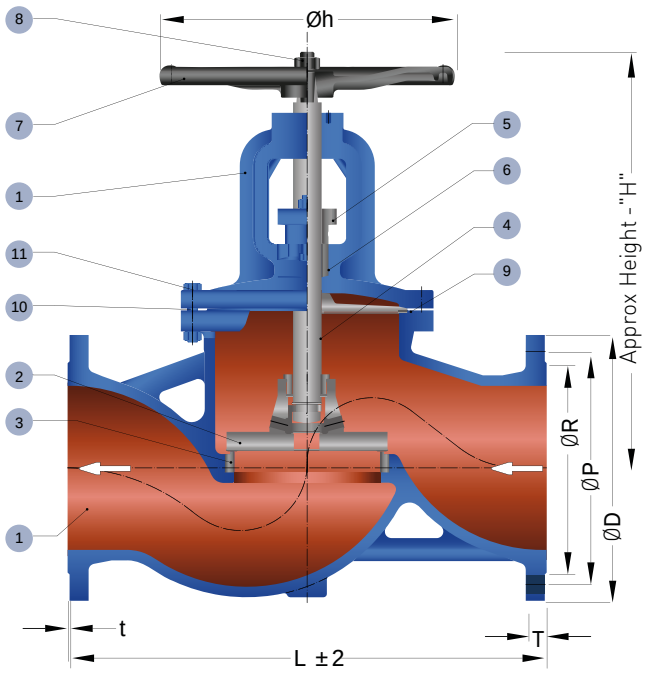
Temperature max. +200ºC

CE 0052 TÜV NORD

Testing pressure in bar

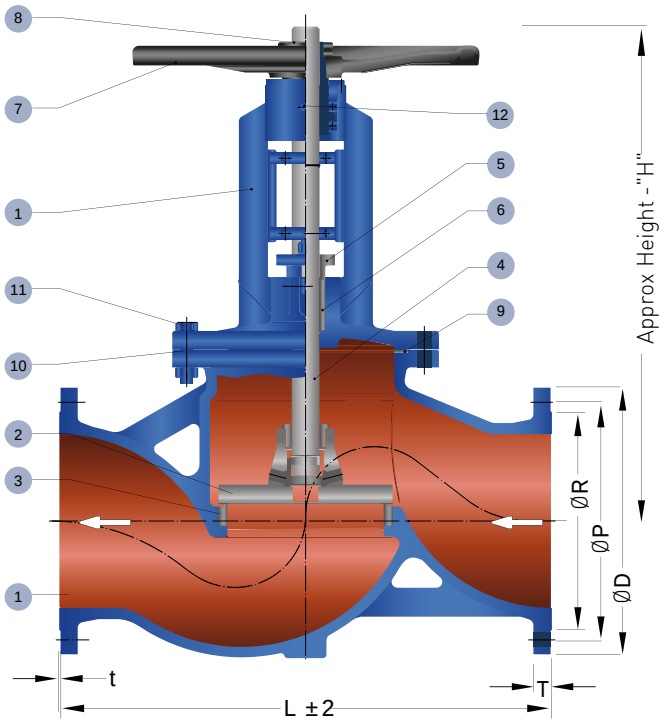
Hydro	Body	24
	Seat	18
Air	Seat	07

DN 250



Nº	COMPONENT	MATERIALS
1	Body & Bonnet	EN-GJS-400-15 (0.7040)
2	Plug	A105 (1.0482)
3	Seat	A420 (1.4021)
4	Stem	A420 (1.4021)
5	Gland	EN-GJS-450-10 (5.3107)
6	Packing	Graphite
7	Hand Wheel	EN-GJS-450-10 (5.3107)
8	Hand Wheel Nut	C25 (1.0406)
9	Bonnet Gasket	C10E (1.1121) + graphite
10	Bolt	C35 (1.0501)
11	Nuts	C25 (1.0406)
12	Grease nipple	Brass

DN 300



DIMENSIONS		
DN	250	300
PN	16	16
ØD (outer flange diameter)	405	460
ØP (Bolt circle)	355	410
ØR	319	375
T (FGL.THK)	32	32
t	3	3
NO.OF HOLE / Ø	12xØ28	12xØ28
L (Face to face)	730	850
Øh	450	600
STROKE	106	130
H (closed)	639	863
Weight (Kg)	208,0	350,0

all dimensions in mm.

WORKING CONDITIONS			
Temperature ºC	-10/120	150	200
Pressure Bar	16	14,4	12,8

Pressure Reducing Valve PRV50065HP

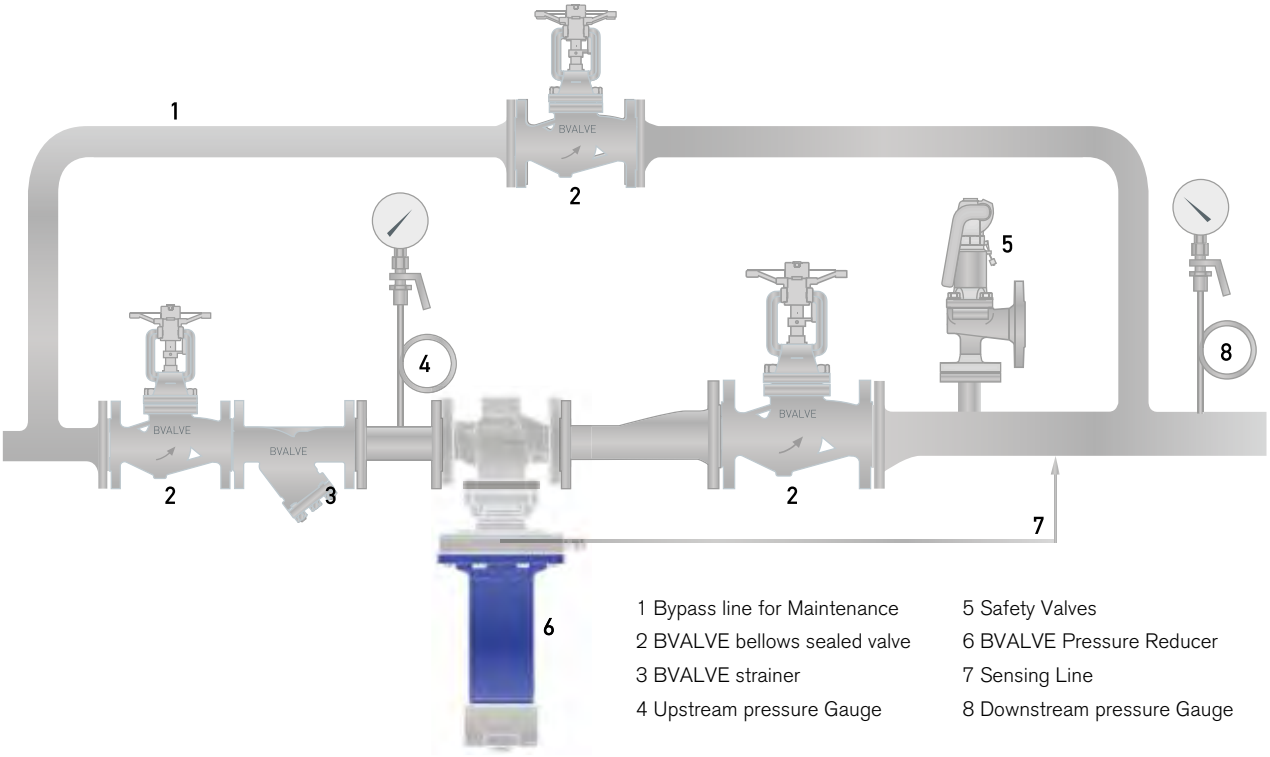
BVALVE launches its self-acting balanced pressure reducing valve which offers an accurate regulating control while displaying an easy installation and maintenance. These are used to maintain a accurate pressure downstream without requiring the use of any pneumatic or electrical control elements.

PRV50065 HP is a diaphragm operated, spring loaded and proportionally balanced valve for high flow rate applications. Moreover, valve body is made out of carbon steel, internal parts are manufactured in stainless steel and valve plug is fitted with a metallic seal or soft seal.

When the outlet pressure taken from the sensing line (to be installed on site) rises above the setting point, the plug moves against the seat in order to create more pressure drop by reducing the flowrate. When the pressure drop under the setting point, the plug moves away from the seat, reduce the pressure drop and increase the flowrate.

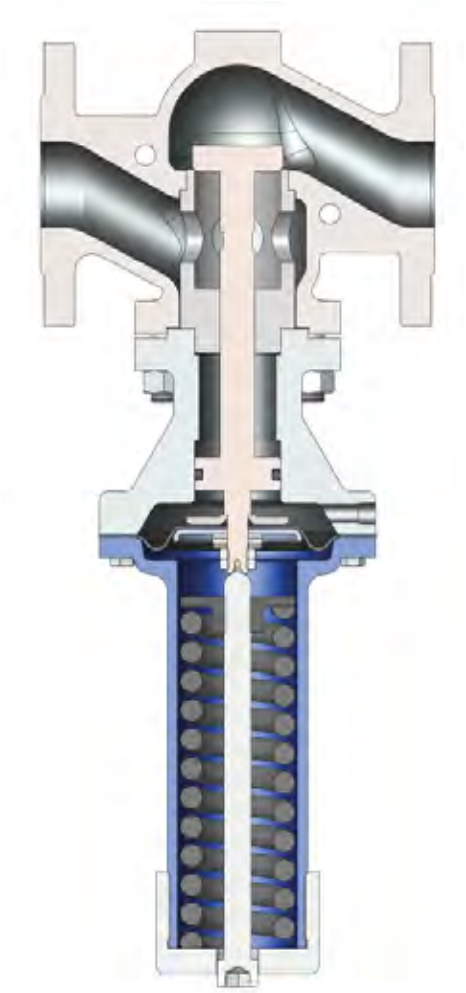
The set point is adjustable with a device which compresses a spring more or less, according to the desired set point value. Leakage class for metal sealing Class V or 0,0005% of Kvs value. Leakage class for soft sealing bubble tight or RATE A acc. to EN12266-1

It is imperative to install the pressure reducing valve, on horizontal piping, the actuator (in blue) vertically downwards to protect the diaphragm and O-rings against too high temperatures. For gases and liquids, it can be installed vertically upwards. PRV50065 HP requires a sense line to be installed on site.



1 Bypass line for Maintenance
2 BVALVE bellows sealed valve
3 BVALVE strainer
4 Upstream pressure Gauge
5 Safety Valves
6 BVALVE Pressure Reducer
7 Sensing Line
8 Downstream pressure Gauge

For steam, liquids and gas PRV50065HP



Features

» Compact construction

» Closed spring cap

» Does not require compensating chamber for steam application

» Medium-wetted internal parts made of stainless steel AISI 316

» High regulating accuracy due to the balance plug

» Robust design

» Leakage class for metal sealing Class V or 0,0005% of Kvs value

» Leakage class for soft sealing bubble tight or RATE A acc. to EN12266-1

» Body made of 1.0619/A216WCB/WCC or stainless steel 1.4408/A351CF8M

» FKM special elastomeres

» Quick change of internal trims: seat, cone/plug, and spring

Typical Applications

» Steam, water, condensate cycle system

» Industrial air

» Technical gases

» Conventional heat exchangers

» Conventional fuel supply and residues disposal

Advantages of the product

One product for all fluid: steam, liquids and gas

Body material:
Available in Carbon Steel and optional SST

PTFE diaphragm film protection for aggressive fluid

Wide range of Kvs:
0,08 to 108 m3/h

Max Operating pressure:
40barg

Max Operating temperature:
-19°C (-30°C with stainless steel body) to 250°C (150°C for soft seal plug)

Available with hardened perforated plug / soft sealing
For high differential pressure and noise reduction, Soft seal for gases and liquid , plugs easily interchangeable

Easy maintenance
Ready to change the spring without replacing any gasket

Special FKM Diaphragm
For a wide range of temperature, including steam services

Resistant construction
Enables precise and reliable control

Spindle in one part for a better reliably

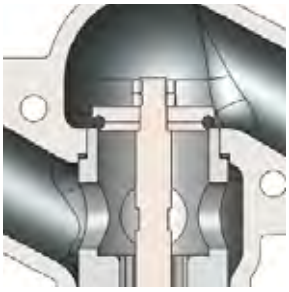
Bonnet especially designed in one piece
To ensure a perfect alignment of seat/plug and for cooling down steam in order to protect the balance device gasket. Higher life time of the balance device and better accuracy.

Leakage of the seat with graphite gaskets
More effective for a long time compare to a standard o'ring. Equipped with quick opening seat.

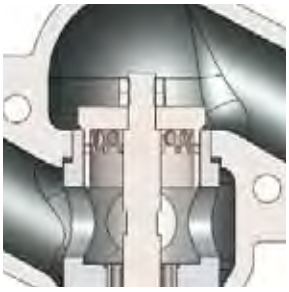
Lock system
Plug locked on the spindle with nut / lock nut system, not only one single nut

No need of additional condensation chamber for steam application

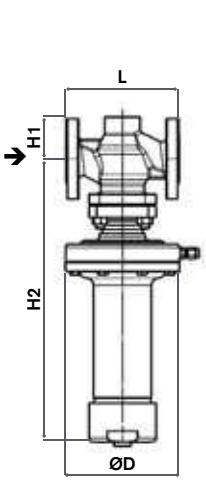
CE 0052 TÜV NORD PED



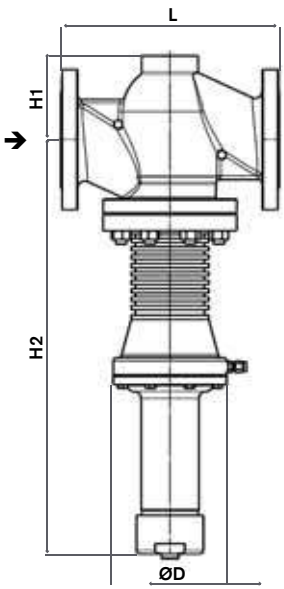
Soft sealing detail



Hardened Perforated Plug detail



DN15-DN32



DN40-DN100

Technical Information

Technical Data

Connection DN	15 - 100*
Nominal Pressure PN	40
Inlet Pressure	up to 40 barg**
Outlet Pressure	0.14 - 15 barg
K_{vs} Value	0.08 - 108 m³/h
Temperature	-19°C (-30°C with stainless steel body) to 250°C (150°C for soft seal plug)
Medium	Steam, liquids, gases

* DN65 and DN100 available with PN16
DN125 and D N150 under request
** Steam up to 25bar

Materials

Body	1.0619/A216WCB/WCC or Stainless steel 1.4408/A351CF8M
Diaphragm Housing	Cast iron – Stainless steel
Medium wetted Internal Parts	Stainless steel 1.4408 / AISI 316
Valve Seal	Stainless steel 1.4408 / AISI 316
Diaphragm	FKM special
O-ring	FKM special

Turndown

	Standard plug		Perforated plug	
DN	Kvs	Rangeability	Kvs	Rangeability
15	4.9	23.3	2	25.0
20	4.9	23.3	2	25.0
25	8	20.0	6	22.2
32	15	29.4	11	33.3
40	25	29.4	19	33.3
50	36	34.0	27	37.5
65	60	43.8	42	43.8
80	81	47.9	57	47.9
100	108	51.4	71	51.4

Dimensions [mm]

DN	L	H1	H2	D	Weights [kg]
15	130	45	400	162	16
20	150	50	400	162	17
25	160	60	400	162	19
32	180	70	405	162	21
40	200	85	545	162	29
50	230	90	540	162	31
65	290	100	590	162	39
80	310	120	590	162	51
100	350	140	610	162	71

Working conditions

T	-10 °C	130 °C	150 °C	200 °C	250 °C
barg	40	38	36	33	30

Spring range (barg)

Available ranges according to DN									
DN		15	20	25	32	40	50	65	80	100
N° spring range	1	0.2…1.5		0.3…1.4				0.3…1.4		
	2	0.3…2.4		0.5…2.3				0.6…2.3		
	3	0.4…4.3		0.9…4.0				1.1…4.0		
	4	0.8…6.8		1.6…6.3				2.0…6.2		
	5	1.5…9.6		3.0…8.5				3.6…8.5		
	6	2.9…15.8		5.7…14.3				6.9…13.8		

Reduction Ratio (max. p1/p2)

Inlet Pressure (barg) * PN	5**	10	15	20	25	30	35	40
Liquids								
Outlet Pressure Minimum (barg) Standard plug	1,5	3	4.5	7	10	13	15	16
Outlet Pressure Minimum (barg) Hardened Perforated Plug	0,5	1	2	3	4	6	8	10
Steam & gases								
Outlet Pressure Minimum (barg) Standard plug	0.5	1	2	2.5	3	3.4	3.8	4
Outlet Pressure Minimum (barg) Hardened Perforated Plug	0	0	0.1	0.2	0.4	0.6	0.8	1

* If the inlet pressure is 25 barg, outlet pressure can be reduced up to 10 barg with standar plug and up to 4 barg with hardened perforated plug. For more diferential pressure please contact BVALVE

** Less than inlet pressure of 5 barg, outlet pressure can be reduced:
- DN15 and DN20 up to 0,2 barg
- DN25, DN32, DN40 and DN 50 up to 0,3 barg
- DN65, DN80 and DN100 up to 0,3 barg

Information in table is calculated for sizes from DN15 to DN100

K_{vs} Values [m³/h]

DN	15	20	25	32	40	50	65	80	100
Low Kvs plug	0.08								
	0.15								
	0.38								
	0.8								
Std plug / Soft seal plug	4.9		8	15	25	36	60	81	108
Hardened Perforated plug	2		6	11	19	27	42	57	71

Thermodynamic disc traps

The BV66 is a brand new line of compact and ligthweigth thermodynamic disc traps designed to efficiently discharge condensate on applications with working pressures up to 42 bar (609 psi). Disc trap completely made of Stainless Steel with integrated strainer. These simple, yet rugged, traps will provide economical long-term performance on drip leg, tracing, and process services.

Specifications

Size: 1/2", 3/4", 1"

End connections:

Threaded BSPP

Flange connections on request

Materials:

- Body: Stainless steel ASTM A743 (CA 40F)
- Cover: Stainless steel AISI 304
- Disc: Stainless steel AISI 420
- Strainer: Stainless steel AISI 304
- Strainer Cap: Stainless steel AISI 304

Maximum Operating Temperature: 400º C (752ºF)

Operating Pressure: 42 bar g. (609 psig)

Maximum Back Pressure:

Must no exceed 80% of inlet pressure.

Design conditions:

63 bar g./400ºC/Hidraulic test @ 95 bar g.

Installation:

Horizontal pipe for an appropiate use.

» Easy in-line inspection and maintenance

Simple one-piece thermodynamic cartrigde which can be inspected and replaced without having to remove the steam trap from the line.

» Single moving part

Simple, yet effective design uses just one moving part to enhace minimal maintenance and long operating life.

» All parts made in Stainless Steel

Body material and trim are made in stainless steel. Besides, body surface is nickel plated to avoid oxidation.

» High capacities

Optimized porting configuration provides higher flow capacities than other cartrigde designs.

» Rugged design

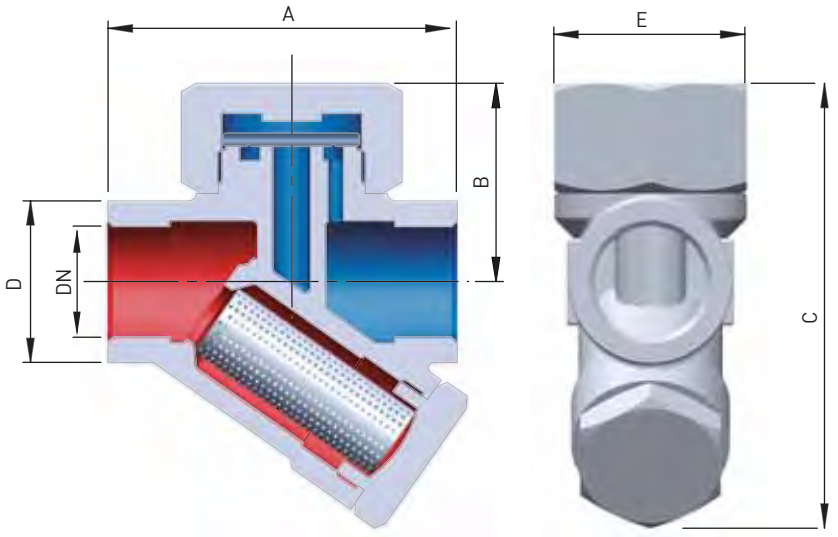
Withstands the effects of water hammer, vibration, and corrosive environments.

BV66

Max. operating temp. 400ºC — Stainless steel

Operating pressure 42 bar g — ASTM A743 (CA 40F)

Dimensions and weight



DN	1/2"	3/4"	1"
A	78	78	95
B	39,2	39,2	54
C	93	93	121
D	34	34	44
E	41	41	52
Weight (Kg)	1,10	1,10	1,60

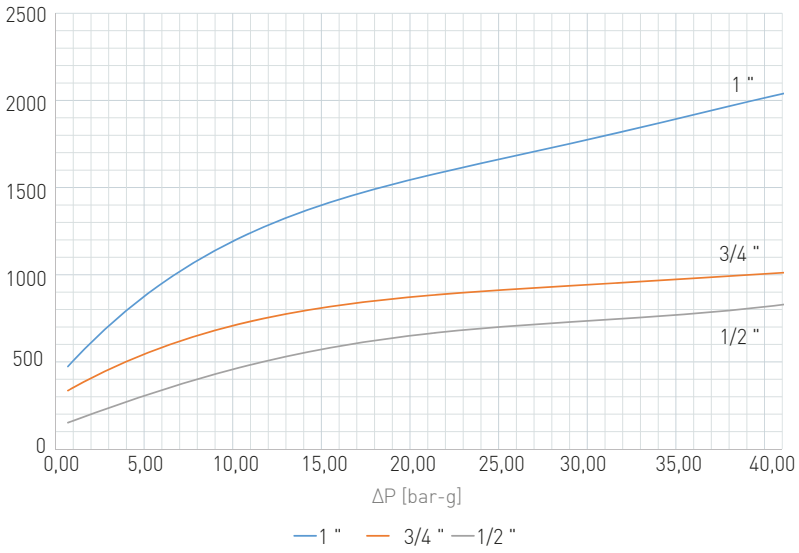
Dimensions in mm

Discharge capacities

Differential Pressure Barg	1/2"	3/4"	1"
0,7	151	339	476
0,8	155	341	484
1	161	352	502
2	203	401	623
3	239	452	701
4	261	502	798
6	342	594	923
8	403	651	1069
10	454	701	1236
15	576	803	1398
20	642	886	1502
25	701	901	1699
30	725	949	1753
42	804	1043	2018

Note: Discharge capacities in Kg/h with outlet pressure 0 bar.

Discharge capacity [kg/h]



Float trap with thermostatic air vent

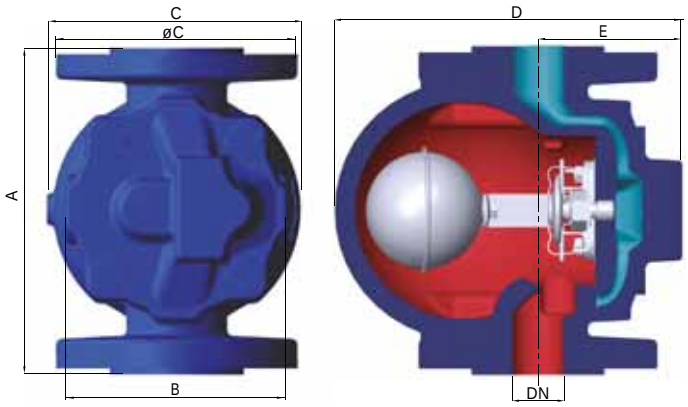
Flanged DIN PN 16 Threaded end BSPP

The BV500 is a float & thermostatic style steam trap with an inline, straight-through body design, which eliminates the staggered piping usually associated with this type of steam trap. It utilizes a stainless steel float and a simple lever mechanism to open or close the valve in correlation to the amount of condensate present. The opening is proportional to the condensate rate and is unaffected by instantaneous pressure changes. The BV500 is used where fast response and continuous condensate discharge is required such as on heat exchangers, tanks, pans, ovens, and drying cylinders.

Dimensions and weight flanges connection

DN	15	20	25	40	50
A	150	150	160	230	230
B	110	110	110	216	248
C	98	98	120	241	262
øC	95	105	115	150	165
D	171	171	171	393	417
E	71	71	71	75	82,5
Weight (Kg)	4,6	5	6,4	21,4	29,8

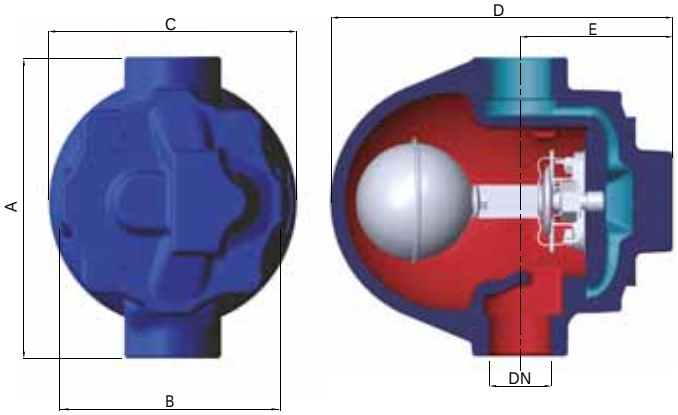
Dimensions in mm.



Dimensions and weight thread connection

DN	1/2"	3/4"	1"	1-1/2"	2"
A	122	122	145	270	300
B	110	110	110	445	460
C	98	98	120	207	220
D	158	158	168	108	124
E	75	75	75	32	38
Weight (Kg)	4,2	3,4	4,2	19,6	24,2

Dimensions in mm



BV500

Max. operating temperature: 250ºC
Operating pressure: 16 barg

Installation

The BV500 steam trap must be fitted with the float arm in a horizontal plane so that the float will rise and fall vertically within the trap body. Nominal sizes DN 15, DN 20 and DN 25 can be installed both in horizontal and vertical pipes by turning the cover 90º.

Specifications

Sizes: DN 15, DN 20, DN 25, DN 40 and DN 50
End connections: Flanged DIN PN 16 / Thread end BSPP
Maximum Allowable Pressure: 25 bar
Maximum Allowable Temperature: 300ºC
Maximum Operating Pressure: 16 bar
Maximum Differential Pressure: 4,5 bar, 10 bar, 14 bar
Maximum Operating Temperature: 250ºC

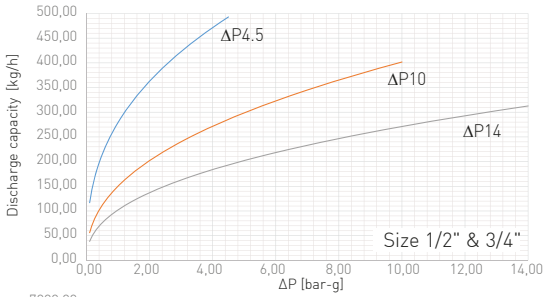
Materials:

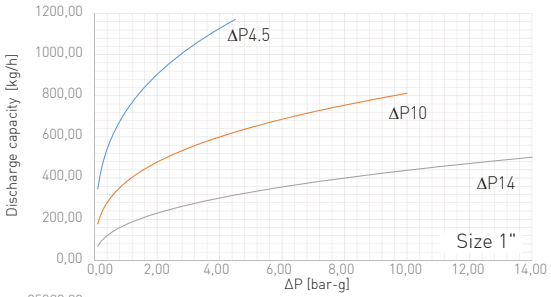
Body & Cover: Ductile iron GGG 40.3
Thermostatic Capsule: Stainless steel
Air Vent Seat / Float Seat: Stainless steel 304
Main Valve (Ball): Stainless steel 304
Float & Float Lever: Stainless steel 304

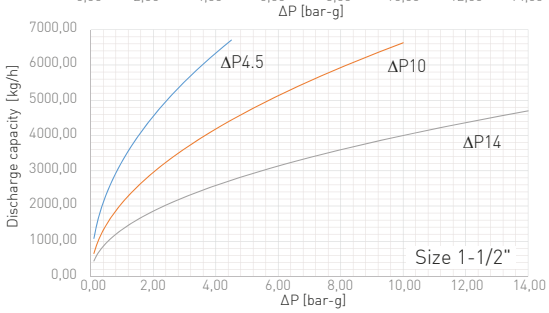
Discharge capacities

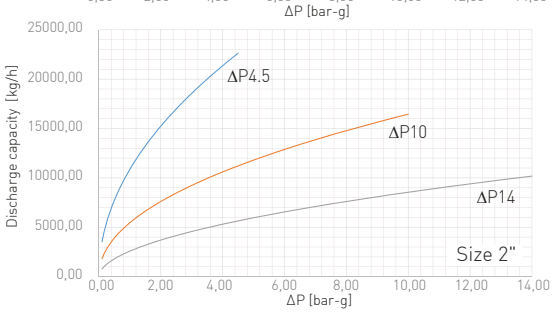
Differential Pressure Barg	ΔP4,5 (A)				ΔP10 (B)				ΔP14 (C)			
	1/ 2"-3/ 4"	1"	1-1/ 2"	2"	1/ 2"-3/ 4"	1"	1-1/ 2"	2"	1/ 2"-3/ 4"	1"	1-1/ 2"	2"
0.1	115	365	1100	3500	55	187	660	1800	38	68	450	850
0.2	160	425	1450	4800	75	211	925	1600	52	90	625	1250
0.3	180	491	1800	6000	89	249	1150	3100	62	101	750	1450
0.4	190	523	2150	6950	100	280	1300	3500	70	133	850	1700
0.6	225	601	2650	8500	125	314	1625	4250	82	145	1050	2150
0.8	260	689	2950	9600	140	359	1825	4800	93	159	1200	2500
1	275	721	3250	12500	160	391	2125	5400	100	172	1300	2750
2	360	901	4500	15000	200	483	3000	7500	135	224	1800	3600
3	425	1003	5500	17500	240	552	3600	9200	170	272	2250	4500
4.5	500	1225	6700	22500	280	608	4400	11250	190	316	2750	5500
5					300	653	4600	11850	200	323	2900	5850
6					320	699	5100	13100	220	349	3200	6400
8					360	749	6000	15000	250	401	3600	7500
10					400	801	6700	16300	270	451	4000	8400
14									310	503	4700	9500

Notes: 1. Discharge capacities in Kg/h with outlet pressure 0 bar.









Y type strainers

Flanged ends

Features

BVALVE introduces its new Y type strainers which stop pipelines and equipment from blockage through the filtering of foreign matter which tends to build up in pipelines, such as solids or contaminants. They are therefore used to avoid expensive shut downs and to secure pumps' suction inlet, valves, and pipeline equipment from damaging.

Typical Applications

These may be applied on processes containing steam, thermal oil, water, hot water, compressed air, chemical fluids and LPG among others.

Specifications

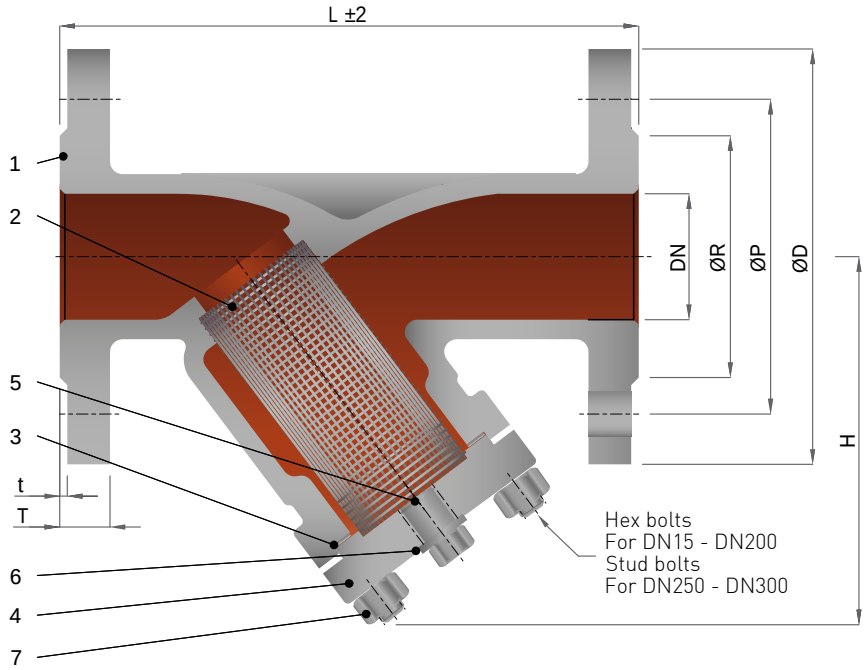
Size:	DN15-DN300	Connections:	Flanges DIN EN1092-2 PN16
Body and cover:	Nodular cast iron EN-GJS-400-18	Design:	DIN EN 12516
Screen:	AISI 304	Working Conditions:	EN 1092-2 PN16 (-10 °C / 350 °C)
Gasket:	Graphite	Face to Face:	DIN EN 558-1
Studs / nuts:	1.1181 / CK 35	Test:	EN 12266-1 P10

WORKING CONDITIONS						
Temperature °C	-10/120	150	200	250	300	350
Pressure Bar	16	15,5	14,7	13,9	12,8	11,2

BV12064 | PN16 EN 1092-2

Nodular cast iron

Temperature min. -10ºC
Temperature max. +350ºC



Dimensions (mm)

DN	PN	ØD	ØP (Bolt Circle)	ØR	T	t	No. Hole / Dia	L	H	WEIGHT (kg)	ØA - K
15	16	95	65	46	16	2	4 / 14	130	90	2.7	22 - 48
20	16	105	75	56	18	2	4 / 14	150	96	3.3	22 - 59
25	16	115	85	65	18	3	4 / 14	160	120	4.3	29 - 75
32	16	140	100	76	18	3	4 / 19	180	130	5.8	35 - 85
40	16	150	110	84	19	3	4 / 19	200	145	7.2	42 - 97
50	16	165	125	99	20	3	4 / 19	230	141	8.97	53 - 102
65	16	185	145	118	20	3	4 / 19	290	161	13.03	67 - 118
80	16	200	160	132	22	3	8 / 19	310	184	16.72	80 - 138
100	16	220	180	156	24	3	8 / 19	350	222	24.9	103 - 165
125	16	250	210	184	26	3	8 / 19	400	257	39.2	128 - 191
150	16	285	240	211	26	3	8 / 23	480	290	54.93	150 - 214
200	16	340	295	266	30	3	12 / 23	600	365	92	198 - 275
250	16	405	355	319	32	3	12 / 28	730	435	144	245 - 330
300	16	460	410	370	32	3	12 / 28	850	542	196	292 - 387

Materials

Nº	COMPONENT	MATERIALS	
1	Body	DN15-40: EN-GJS-500-78	DN50-300: EN-GJS-400-18
2	Screen	DN15-40: SS304	DN50-300: SS201 Plate - SS304
3	Gasket	DN15-40: Graphite + SS304	DN50-300: Graphite
4	Cover	DN15-40: EN-GJS-500-78	DN50-300: EN-GJS-400-18
5	Drain plug	1.1181 / CK 35	
6	Sealing piece	DN15-40: Graphite + SS304	DN50-300: PTFE
7	Bolt	1.1181 / CK 35	

DN Size	Mesh (mm.)
15 - 50	1
65 - 80	1,18
100 - 300	1,7

Y type strainers

Flanged ends

Features

BVALVE introduces its new Y type strainers which stop pipelines and equipment from blockage through the filtering of foreign matter which tends to build up in pipelines, such as solids or contaminants. They are therefore used to avoid expensive shut downs and to secure pumps suction inlet, valves and pipeline equipment from damaging.

Typical Applications

These may be applied on processes containing steam, thermal oil, water, hot water, compressed air, chemical fluids and LPG among others.

Specifications

Size:	DN15-DN300
Body / bonnet:	Carbon Steel EN10213 / 1.0619
Screen:	AISI SS316
Gasket:	Graphite
Studs and nuts:	ASTM A193 B7
Connections:	Flanges DIN EN 1092-B1

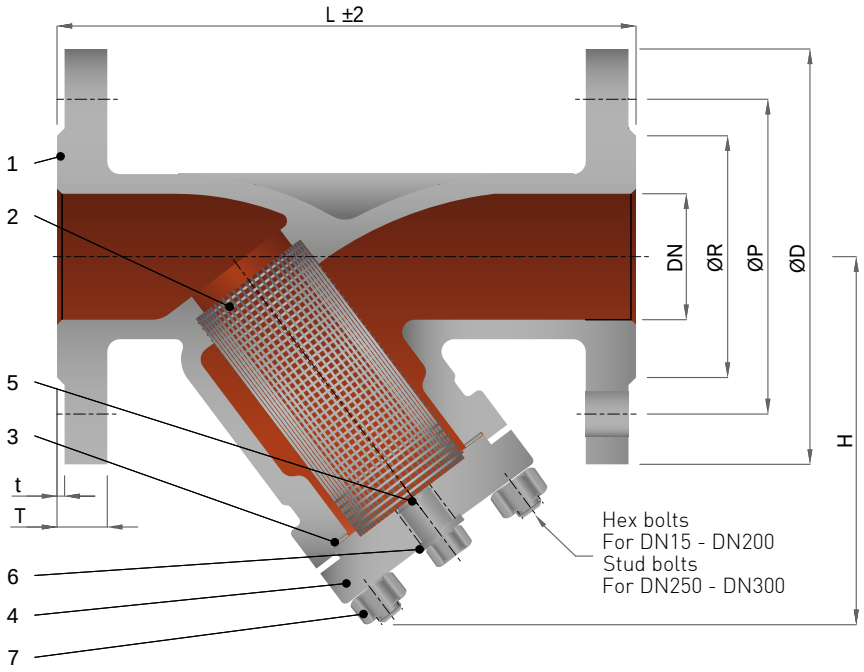
Design:	EN 12916
Working Conditions:	EN 1092-1 (-10 °C / 400 °C)
Face to Face:	EN 558-1
Test:	EN 12666-1 P10
Marking:	DIN EN 19
Painting:	High temperature up to 600ºC

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

BV12065 | PN40 EN 1092-1

Carbon steel

Temperature min. -10ºC
Temperature max. +400ºC



Dimensions (mm)

DN	PN	ØD	ØP (Bolt Circle)	ØR	T	t	No. Hole / Dia	L	H	WEIGHT (kg)	ØA - K
15	40	95	65	46	16	2	4 / 14	130	70	2.5	25 - 47
20	40	105	75	56	18	2	4 / 14	150	85	3.4	30 - 60
25	40	115	85	65	18	2	4 / 14	160	98	4.6	32 - 70
32	40	140	100	76	18	2	4 / 18	180	105	5.5	40 - 76
40	40	150	110	84	18	3	4 / 18	200	125	7.6	48 - 92
50	40	165	125	99	20	3	4 / 18	230	135	9.4	56 - 102
65	40	185	145	118	22	3	8 / 18	290	157	15	70 - 119
80	40	200	160	132	24	3	8 / 18	310	180	20.2	88 - 131
100	40	220	180	156	24	3	8 / 22	350	230	31.8	108 - 168
125	40	250	210	184	26	3	8 / 26	400	277	47.5	130 - 206
150	40	285	240	211	28	3	8 / 26	480	325	70	160 - 240
200	40	340	295	266	34	3	12 / 30	600	410	126	200 - 315
250	40	405	355	319	38	3	12 / 33	730	515	222	260 - 380
300	40	460	410	370	42	4	16 / 33	850	615	347	310 - 455

Materials

Nº	COMPONENT	MATERIALS
1	Body	1.0619 / ASTM - A 216 Gr. WCB
2	Screen	ANSI SS316
3	Gasket	Graphite + SS316
4	Cover	ASTM - A 105
5	Drain plug	ASTM - A 105
6	Sealing piece	Cu Aleación
7	Bolt	ASTM - A 193 B7

DN Size	Mesh (mm.)
15 - 50	1
65 - 80	1,25
100 - 300	1,6

Y type strainers
Threaded ends

Features

BVALVE introduces its new Y type strainers which stop pipelines and equipment from blockage through the filtering of foreign matter which tends to build up in pipelines, such as solids or contaminants. They are therefore used to avoid expensive shut downs and to secure pumps suction inlet and pipeline equipment from damaging.

Typical Applications

These may be applied on processes containing steam, thermal oil, water, hot water, compressed air, chemical fluids and LPG among others.

Specifications

Sizes: 1/2" - 2"

Invesment casting

Y type

SS316 screen

Screwed-in cap

Connecting threads: Thread ends BSP female

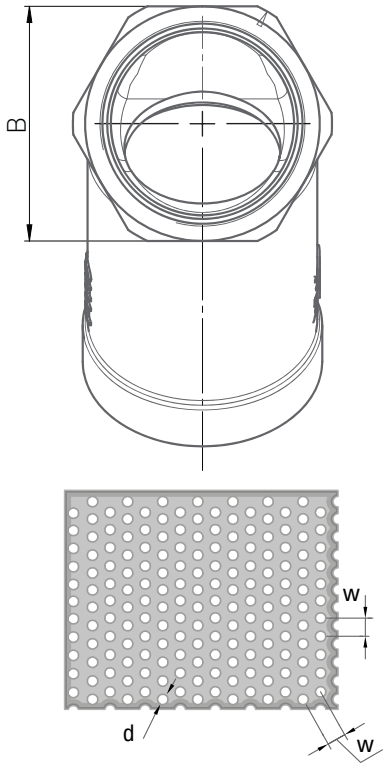
Max operating temperature: 210ºC

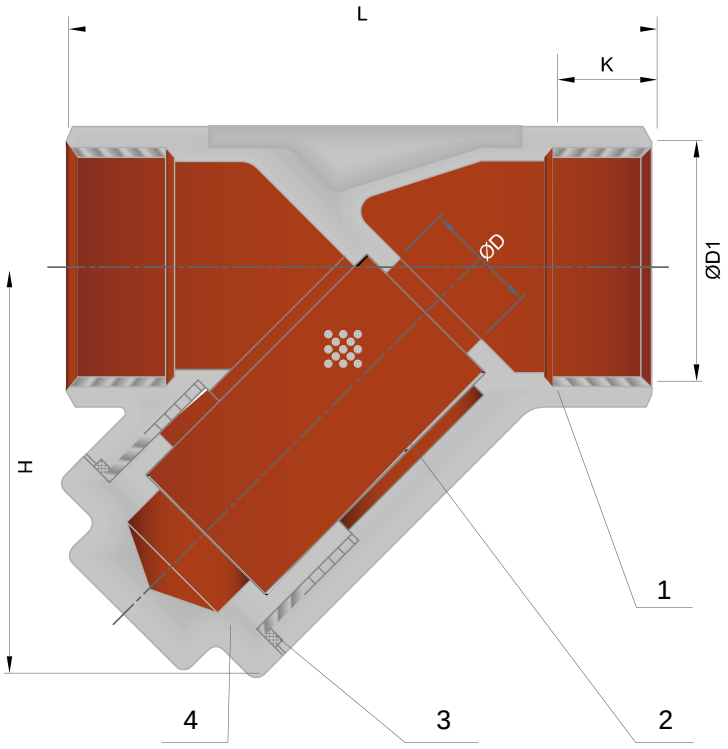
Max operating pressure: PN40

BV800 | PN40 EN 1092-1

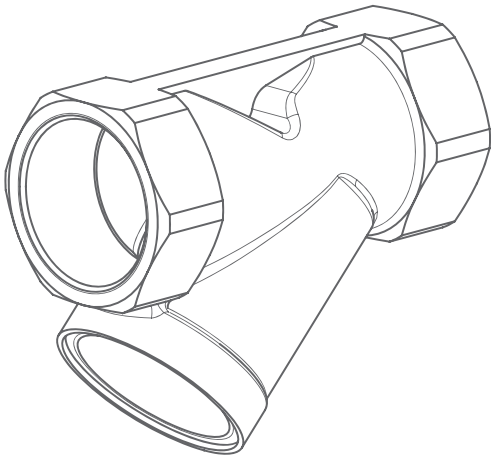
Stainless steel

Temperature min. -10ºC
Temperature max. +210ºC





Nº	COMPONENT	MATERIALS
1	Body	A351-CF8M
2	Screen	SS316
3	Joint gasket	PTFE
4	Cap	A351-CF8M



Dimensions (mm)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2
øD	15	20	25	32	40	50
B	26	32	40	48	55	68
(H)	45	52	68	70	80	98
L	64	80	90	106	119	140
øD1	1/2 BSP	3/4 BSP	1 BSP	1- 1/4 BSP	1-1/2 BSP	2 BSP
W	2	2	2	2	2	2
d	1	1	1	1	1	1
Kgs	0,2	0,320	0,565	0,735	1,040	1,630