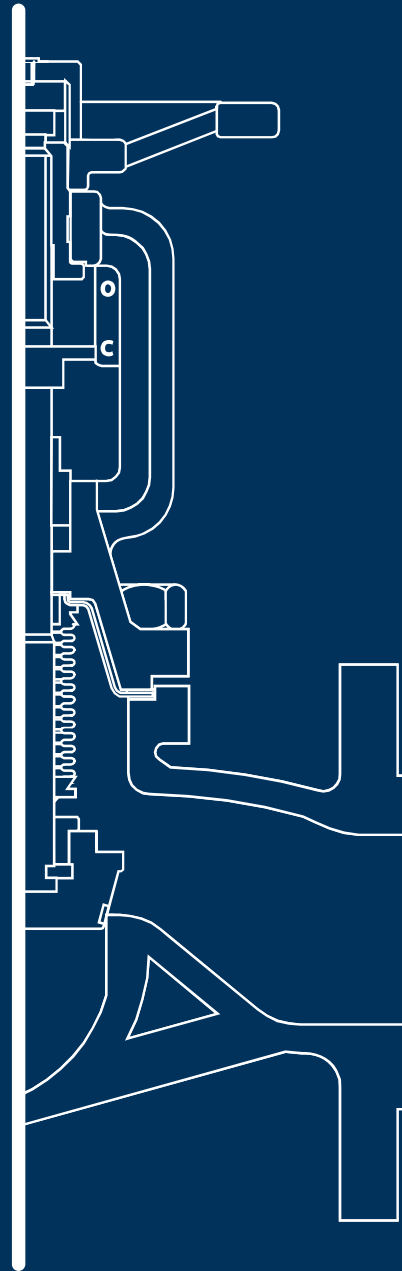




**FLUIDOINDUSTRIALE**  
ENGINEERING & INDUSTRIAL SUPPLIES



**BVALVE®**

Manufacturing range

# BVALVE

Bellows sealed valves  
ANSI 150# - 300#- 600#

# 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**

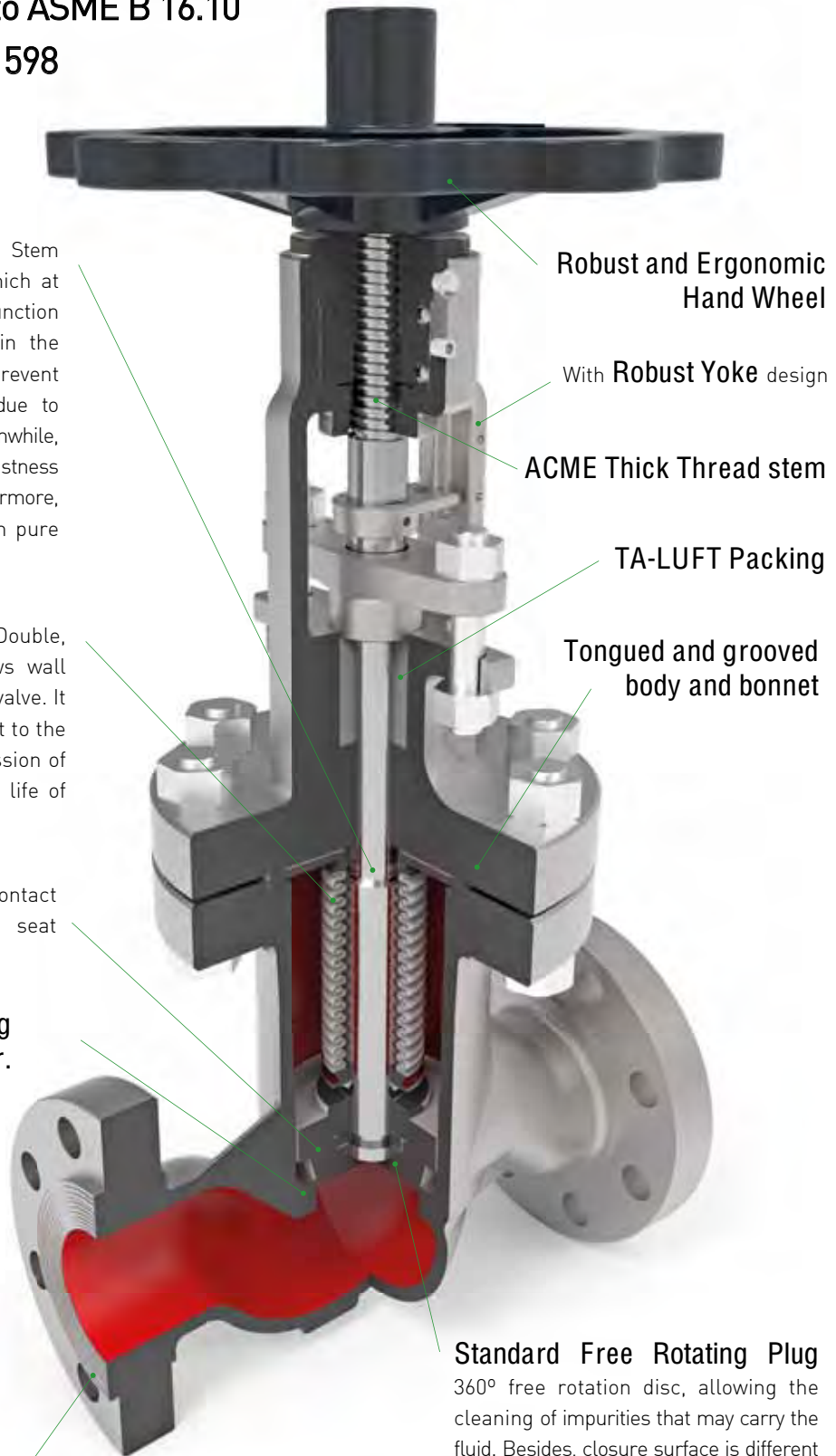
**Non Ejectable Stem.** Stem includes mechanical stop which at the same time perform the function of locking metal to metal in the opened positions and hence prevent stems from being ejected due to process pressures. Meanwhile, mechanical stop adds robustness when valves are opened. Furthermore, our 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 closure.

**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**

360° 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, corrosive and toxic fluids, ethylen dioxide, H<sub>2</sub>SO<sub>4</sub>, etc.



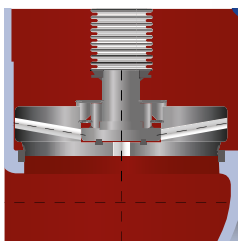
**SPECIFICATIONS**

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

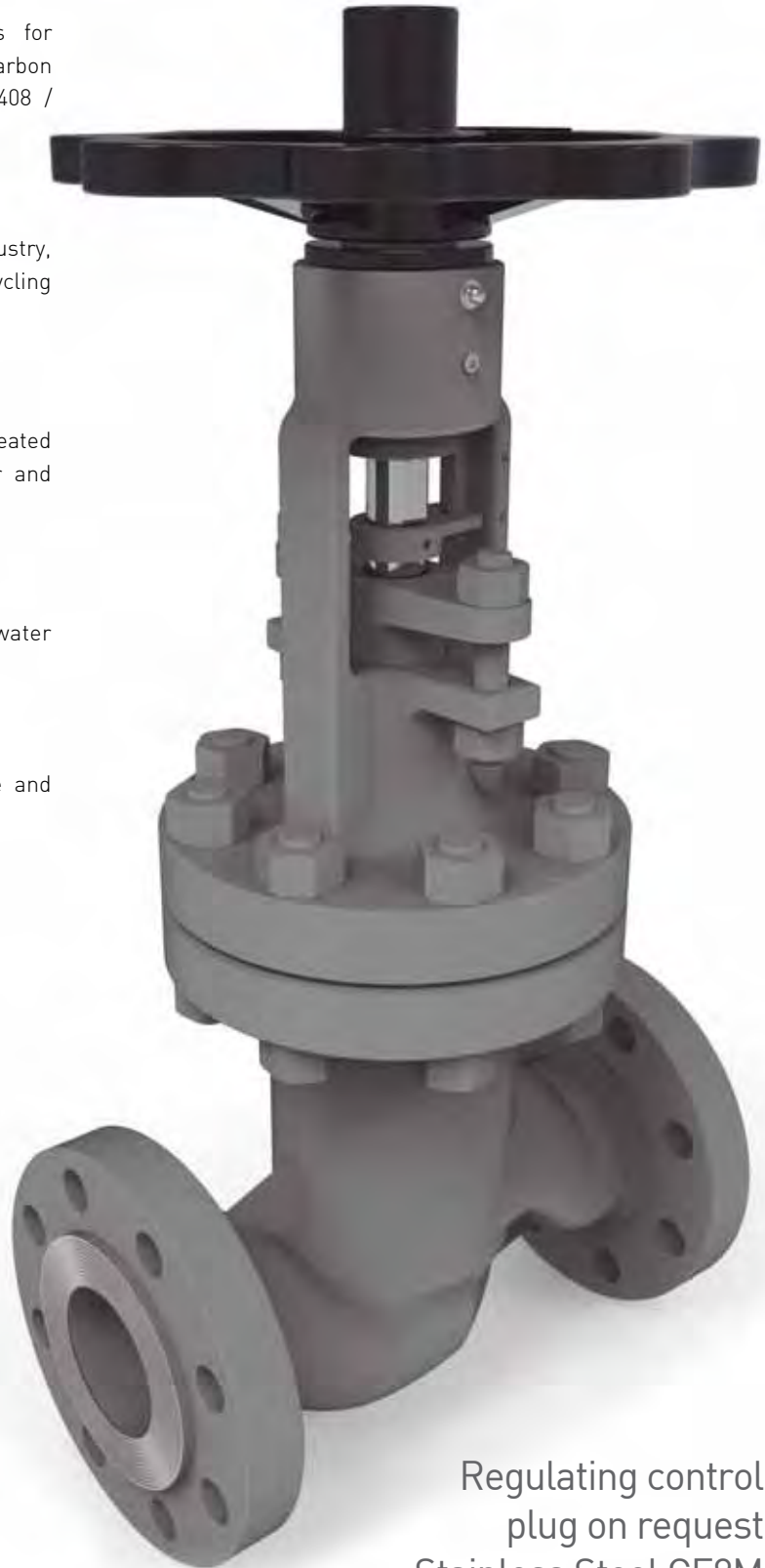
**STANDARD BALANCED PLUG:**

**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

# BV25065 ASA 150#

Carbon steel WCB (1.0619)

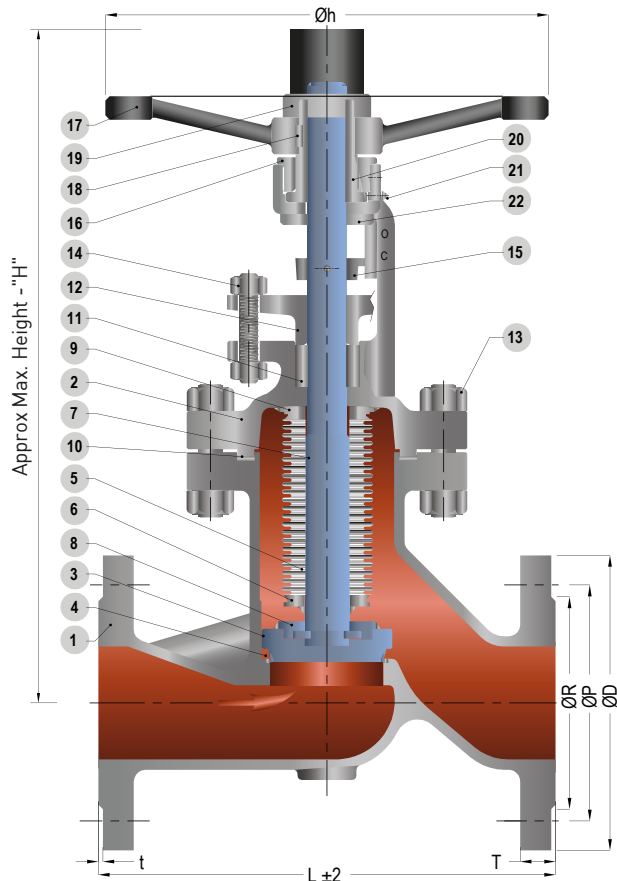
Temperature min. -29°C

Temperature max. +400°C



Testing pressure in bar

Hydro	Body	30
	Seat	22
Air	Seat	07



### MATERIALS

N°	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 °C	-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#

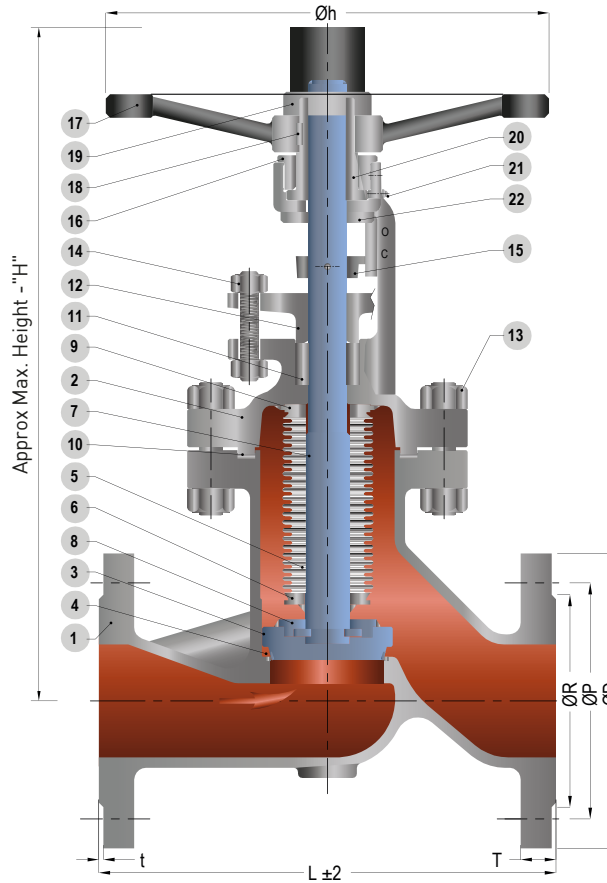
## Stainless Steel CF8M (1.4408)

Temperature min. -60°C  
 Temperature max. +400°C



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)
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 °C	-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 °C

# BV25065 ASA 300#

Carbon steel WCB (1.0619)

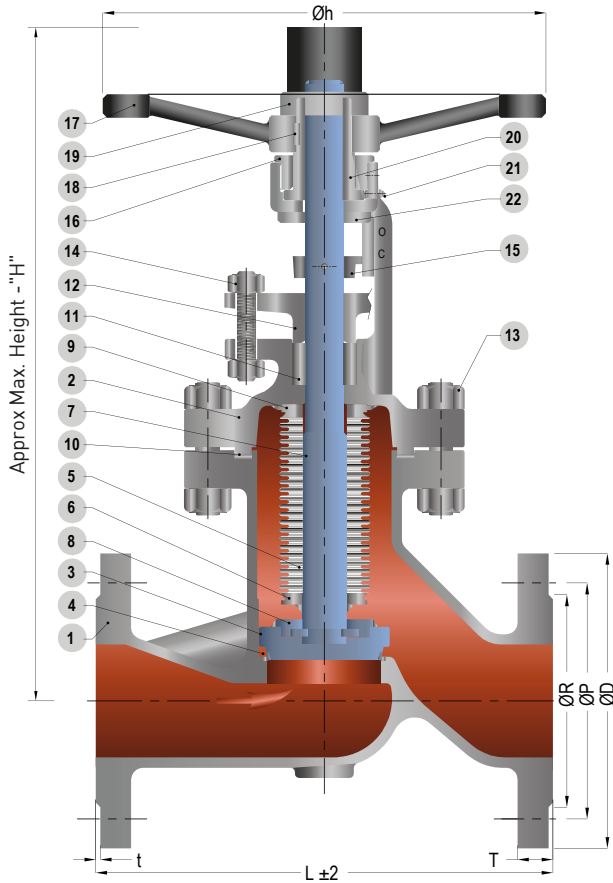
Temperature min. -29°C

Temperature max. +400°C



Testing pressure in bar

Hydro	Body	77
	Seat	57
Air	Seat	07



### MATERIALS

N°	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 °C	-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#

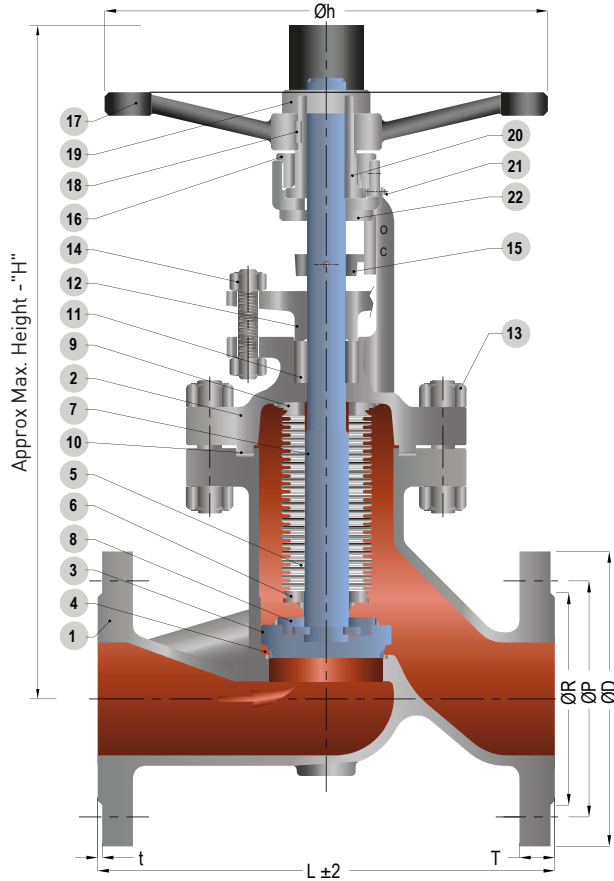
## Stainless Steel CF8M (1.4408)

Temperature min. -60°C  
 Temperature max.+400°C



Testing pressure in bar

Hydro	Body	75
	Seat	55
Air	Seat	07



### MATERIALS

N°	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 °C	-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 °C



# BV25065 ASA 600#

Carbon steel WCB (1.0619)

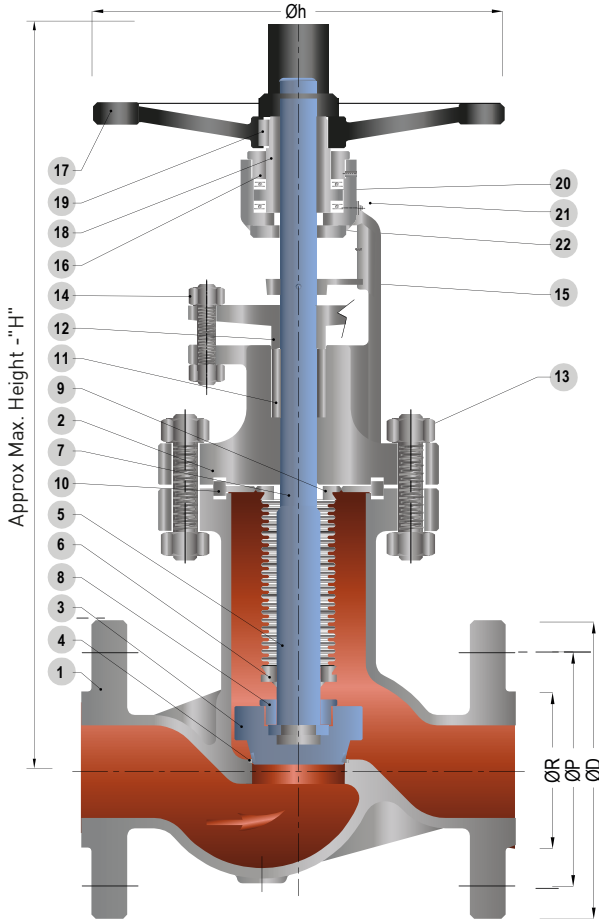
Temperature min. -29°C

Temperature max. +400°C



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)
1/2"	600	95	66.7	35	14.3	7	4 / Ø16	165	172	5	330	12,5
3/4"	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 1/2"	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 1/2"	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 °C	-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#

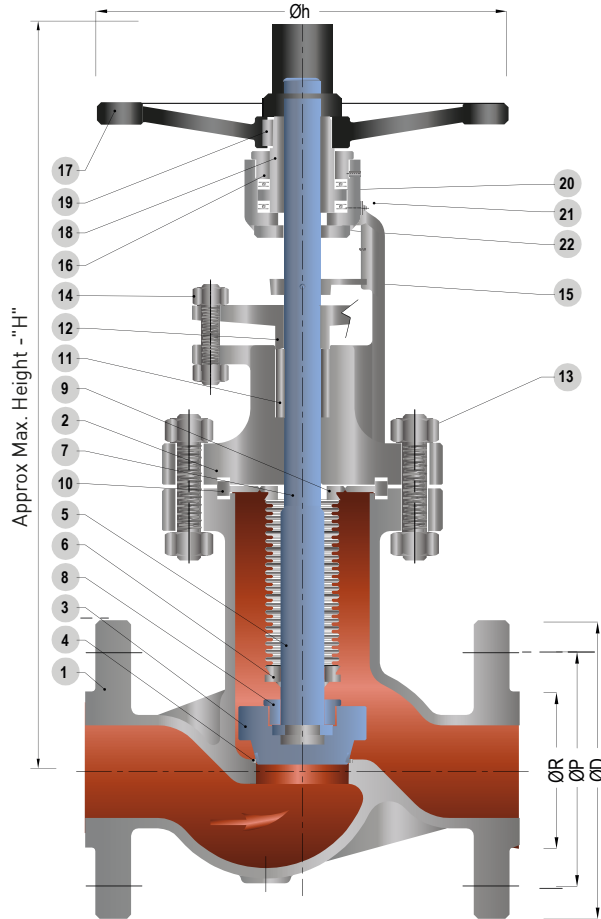
## Stainless Steel CF8M (1.4408)

Temperature min. -60°C  
 Temperature max.+400°C



Testing pressure in bar

Hydro	Body	100
	Seat	100



### MATERIALS

N°	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

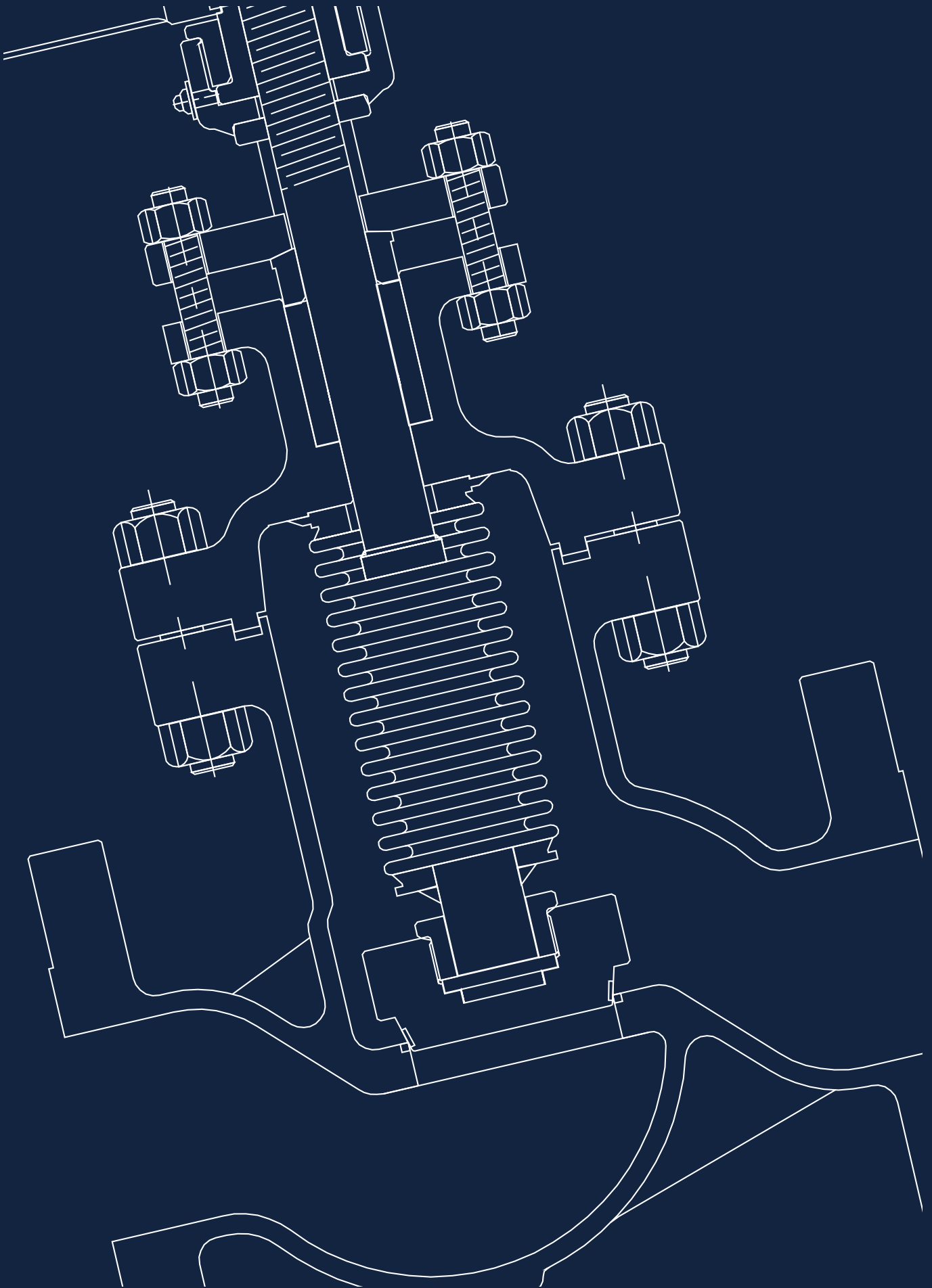
NPS	Class Rating	ØD (outer flange diameter)	ØP (Bolt circle)	ØR	T (FGLTHK)	t	NO.OF HOLE / Ø	L (Face to face)	Øh	STROKE	H (closed)	Weight (Kg)
½"	600	95	66.7	35	14.3	7	4 / Ø16	165	172	5	330	12,5
¾"	600	115	82.6	43	15.9	7	4 / Ø19	190	172	5	382	19,5
1"	600	125	88.9	51	17.5	7	4 / Ø19	216	172	6.5	390	21
1 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 °C	-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 °C





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Via Bradolini, 36 31020 San Fior (TV)  
Tel 0438.400082 - 0438.409196  
Fax 0438-401544  
[www.fluidoindustriale.com](http://www.fluidoindustriale.com)  
[info@fluidoindustriale.it](mailto:info@fluidoindustriale.it)

[www.thebellowssealedvalve.es](http://www.thebellowssealedvalve.es)  
[www.bvalve.es](http://www.bvalve.es) · [export@bvalve.es](mailto:export@bvalve.es)