

Globe valve TYPE AV07 / AV08



Description:

Globe valves for a controlled opening and closing of a pipeline system. With optional regulation plug to control the flow rate.

Product feature:

- suitable for neutral and non neutral **gaseous & liquid media**
- largely maintenance-free
- installation in any position, spindle preferably in vertical position

Connection:

DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250

Temperature:

-10°C up to 400°C
– depending on design

Pressure:

up to 40,0 bar
– depending on design

Type AV07 / AV08

Design:

Globe valve in straight through design

Type:

AV07 Cast steel

AV08 Stainless steel

Material body:

Cast steel 1.0460 | Cast steel 1.0619N*

Stainless steel 1.4408 / CF-8M

Material stem:

Stainless steel 1.4021 / 420

Stainless steel 1.4401 / 316

Stem:

External & rising

External & rising

Material yoke:

Cast steel 1.0460 | Cast steel 1.0619N*

Stainless steel 1.4408 / CF-8M

Nominal pressure:

PN16 / PN40

PN16 / PN40

Material disc:

Cast steel 1.0619N

Cast steel 1.4408 / CF-8M

Material hand wheel:

Carbon steel 1.0036

Carbon steel 1.0036

Hand wheel:

Not rising

Not rising

Gasket:

Graphite

Graphite

*see material table for AV07

Plug design:

TYPE AVXX01: Plug with marginal seat

TYPE AVXX02: Regulation plug

Notes:

Cast steel version AV05 with protective coating RAL5015, 40-60 µm, max. 120°C corresponds to corrosivity category C1 according to DIN EN ISO 12944 Part 2 (protection duration „low“)

Valve according to PED 2014/68/EU

TA-Luft 2021 conform

AD2000 A4

ATEX 2014/34/EU

Final testing according to DIN EN 12266

Shell pressure test water PN*1,5; Closure pressure test water PN*1,1

Face-to-face dimension:

According to DIN EN 558-1 basic series 1

Flange dimension:

According to DIN EN 1092-1

Flange face finish:

According to DIN EN 1092-1 Type B

Pressure-temperature-ratings:

Intermediate values for max. permissible operational pressures can be determined by linear interpolation for the given temperature / pressure chart.

acc. to DIN EN 1092-1		-10°C	20°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C
Cast steel 1.0619N	16 bar	16	16	16	15,3	14	13	11	10,2	9,5
Cast steel 1.0619N	40 bar	40	40	40	38,1	35	32	28	25,7	23,8

acc. to DIN EN 1092-1		-10°C	20°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C
Stainless steel 1.4408	16 bar	16	16	16	14,5	13,4	12,7	11,8	11,4	10,9
Stainless steel 1.4408	40 bar	40	40	40	36,3	33,7	31,8	29,7	28,5	27,4

Difference pressures:

Nieruf-globe valves must be equipped with a relief taper when the pressure differences, listed below, are exceeded in the closed state. The valves must be installed in the pipeline in such a way that the pressure of the medium acts on the taper.

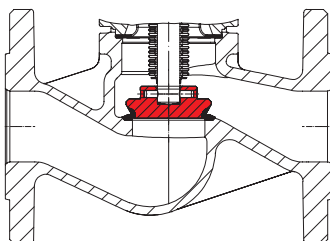
DN	65	80	100	125	150	200	250	300
Pressure difference (bar)	110	70	44	33	21	14	9	6

Leakage rate:

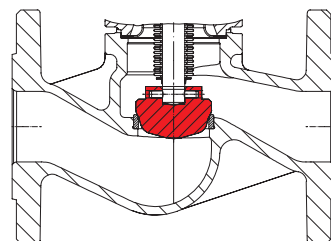
Test with 1,1 times nominal pressure with water according to DIN EN 12266-1, testing of the seat tightness

Type / Diameter	Leakage rate
AV07 & AV08 / up to DN150	A
AV07 & AV08 / from DN 200	B

Plug:



Isolation plug with marginal seat



Regulation plug

Materials AV07:

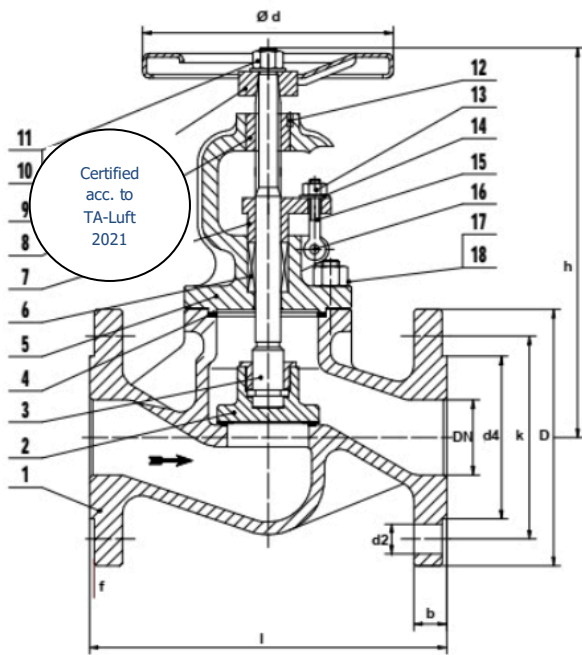


Illustration applies for AV07:
PN16 from DN15 to DN150
PN40 from DN15 to DN100

Illustration applies for AV08:
PN16 from DN15 to DN150
PN40 from DN15 to DN100

Pos.	Designation	Material AV07 Cast steel 1.0619N	Material AV08 Stainless steel 1.4408
1	Body ≤ DN25	C22.8 / 1.0460	GX 5CrNoMo191102 / 1.4408
1	Body > DN25	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
1.1	Body seat	Stellite	Stellite
2	Disc	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
2.1	Disc seat	13 Cr	GX 5CrNoMo191102 / 1.4408
3	Stem	X20Cr13 / 1.4021	X5CrNiMo17-12-2 / 1.4401
4	Gasket	Graphite	Graphite
5	Yoke ≤ DN25	C22.8 / 1.0460	GX 5CrNoMo191102 / 1.4408
5	Yoke > DN25	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
6	Packing	Graphite	Graphite
7	Gland flange	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
8	Threaded	GJS-400-15	GJS-400-15 / 0.7040
9	Hand wheel	Carbon steel / 1.0036	Carbon steel / 1.0036
10 / 11	Hand wheel nut	C25E / 1.1181	C25E / 1.1181
12	Lock bolt	13 Cr	Stainless steel
13 / 14	Hexagon nut	Ck35 / 1.1181	A4
15	Hinged screw	Ck35 / 1.1181	A4
16	Bolt	Ck35 / 1.1181	A4-70
17	Stud bolt	25CrMo4 / 1.7218	A4-70
18	Hexagon nut	25CrMo4 / 1.7218	A4

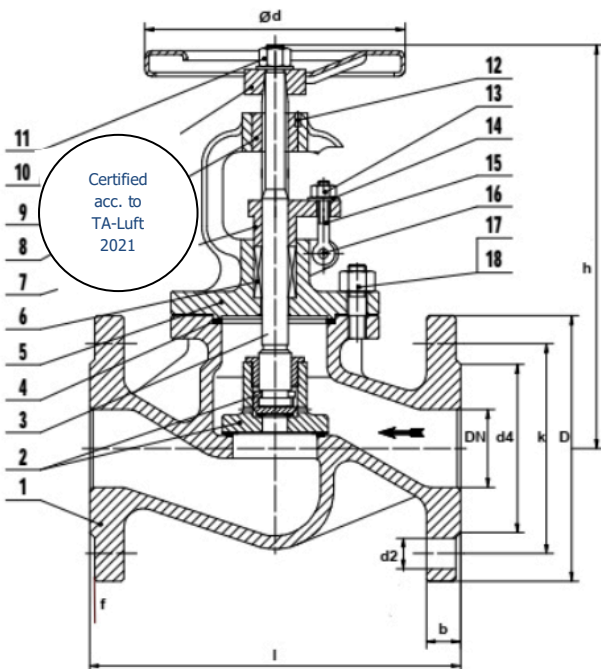


Illustration applies for AV07:
PN16 from DN200 to DN250
PN40 from DN125 to DN250

Illustration applies for AV08:
PN16 from DN200 to DN250
PN40 from DN125 to DN250

Pos.	Designation	Material AV07 Cast steel 1.0619N	Material AV08 Stainless steel 1.4408
1	Body	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
1.1	Body seat	Stellite	Stellite
2	Disc	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
2.1	Disc seat	13 Cr	GX 5CrNoMo191102 / 1.4408
3	Stem	X20Cr13 / 1.4021	X5CrNiMo17-12-2 / 1.4401
4	Gasket	Graphite	Graphite
5	Yoke	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
6	Packing	Graphite	Graphite
7	Gland flange	GP240GH+N / 1.0619N	GX 5CrNoMo191102 / 1.4408
8	Threaded	GJS-400-15	GJS-400-15 / 0.7040
9	Hand wheel	Carbon steel / 1.0036	Carbon steel / 1.0036
10 / 11	Hand wheel nut	C25E / 1.1181	C25E / 1.1181
12	Lock bolt	13 Cr	Stainless steel
13 / 14	Hexagon nut	Ck35 / 1.1181	A4
15	Hinged screw	Ck35 / 1.1181	A4
16	Bolt	Ck35 / 1.1181	A4-70
17	Stud bolt	25CrMo4 / 1.7218	A4-70
18	Hexagon nut	25CrMo4 / 1.7218	A4

Dimensions:

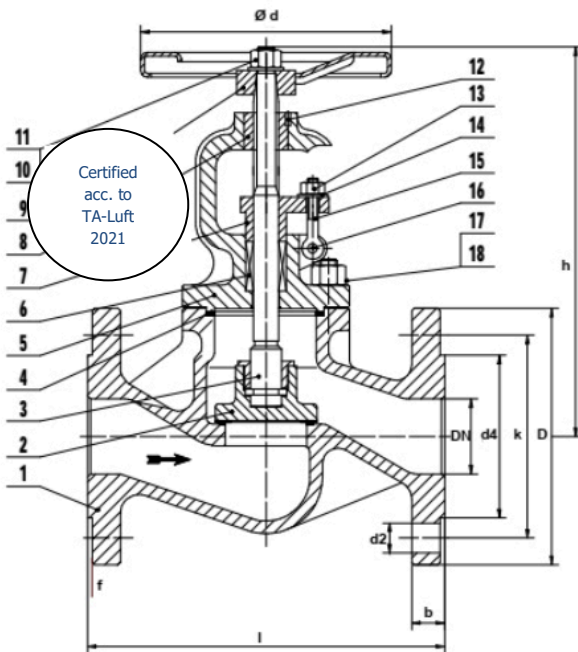


Illustration applies for AV07:
PN16 from DN15 to DN150
PN40 from DN15 to DN100

Illustration applies for AV08:
PN16 from DN15 to DN150
PN40 from DN15 to DN100

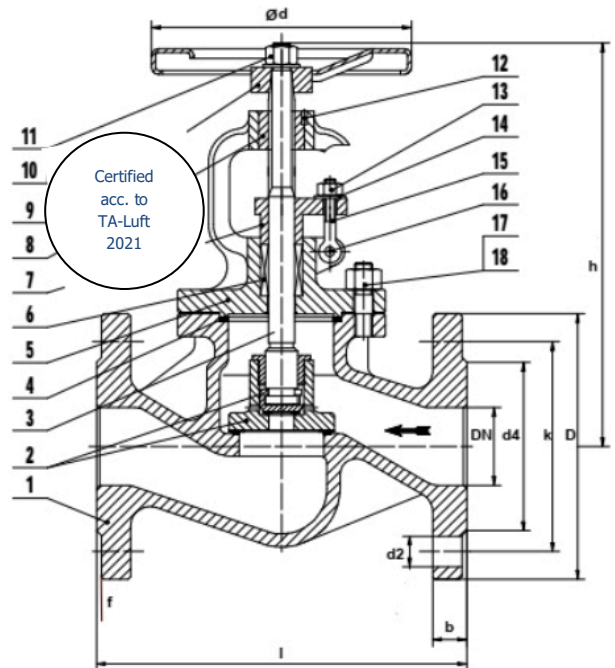


Illustration applies for AV07:
PN16 from DN200 to DN250
PN40 from DN125 to DN250

Illustration applies for AV08:
PN16 from DN200 to DN250
PN40 from DN125 to DN250

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
PN16	d	140	140	160	160	180	180	225	250	300	350	400	500	500
	l	130	150	160	180	200	230	290	310	350	400	480	600	730
	h	185	185	220	220	235	255	300	335	370	440	480	495	660
	D	95	105	115	140	150	165	185	200	220	250	285	340	405
	k	65	75	85	100	110	125	145	160	180	210	240	295	355
	d4	45	58	68	78	88	102	122	138	158	188	212	268	320
	b	16	18	18	18	18	20	18	20	20	22	22	24	26
	f	2	2	2	2	3	3	3	3	3	3	3	3	3
	n x Ød2	4x14	4x14	4x14	4x18	4x18	4x18	4/8*x18	8x18	8x18	8x18	8x22	12x22	12x26
	Nm	10	13	16	22	30	35	45	55	70	110	135	150	210
PN40	d	140	140	160	160	180	180	225	250	300	350	400	500	500
	l	130	150	160	180	200	230	290	310	350	400	480	600	730
	h	185	185	220	220	235	255	300	335	370	390	400	495	660
	D	95	105	115	140	150	165	185	200	235	270	300	375	450
	k	65	75	85	100	110	125	145	160	190	220	250	320	385
	d4	45	58	68	78	88	102	122	138	162	188	218	285	345
	b	16	18	18	18	18	20	22	24	24	26	28	34	38
	f	2	2	2	2	3	3	3	3	3	3	3	3	3
	n x Ød2	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33
	Nm	10	13	16	22	30	40	55	70	90	110	135	180	270
Stroke		5,5	5,5	4,5	4,5	5,5	5,0	4,0	4,0	8,0	7,0	8,0	12,0	16,0
	Weight	4,0	6,0	7,0	8,0	11,0	14,0	19,0	28,0	42,0	55,0	82,0	125,0	265,0
Stroke		6,0	6,0	8,0	8,0	13,0	13,0	16,0	20,0	25,0	32,0	40,0	50,0	70,0
	Weight	5,0	6,0	7,0	8,0	10,0	13,0	19,0	25,0	43,0	62,0	92,0	148,0	210,0

*Optionally available with 8-hole flange bore according to DIN EN 1092-1/-2 instead of 4-hole bore

Options (on request):

- AV07 for PN25 version
- Position indicator
- Lock screw
- Packing and gasket PTFE
- Sealing water connection

Article number:

Type	Pressure stage	Plug	Connection	Size
AV07 – Cast steel	0 – PN16	1 – Plug with maginal seat	00 – Flange	03 – DN15
AV08 – Stainless steel	1 – PN40	2 – Regulation plug*		04 – DN20
				05 – DN25
				06 – DN32
				07 – DN40
				08 – DN50
				09 – DN65
				10 – DN80
				11 – DN100
				12 – DN125
				13 – DN150
				14 – DN200
				15 – DN250

Example No. AV07010008:

AV07	0	1	00	08
Globe valve made of cast steel				
Pressure stage: PN16				
Plug: Plug with marginal seat				
Connection: Flange				
Size: DN50				

*version with regulation plug only available to diameter DN200

Image similar, subject change without notice.