

PERFORMANCE ADVANGATE

1. The valve body adopts investment casting technology. Advanced technology to ensure that the valve body has no sand holes, surface more smooth and quality more reliable.
2. Back seat structure. In the fully open position, back seat will form a extra sea ling, with stroke e locate and anti-vibration function.
3. Overlay welded seat can keep reliable sealing under severe conditions.
4. Ergonomichand wheel. It provide longer servicelife andeasieroperation.

TECHNICAL SPECIFICATION

Design standard: DIN EN 13709:2003

Face to face dimension: DIN EN 558-1:1995

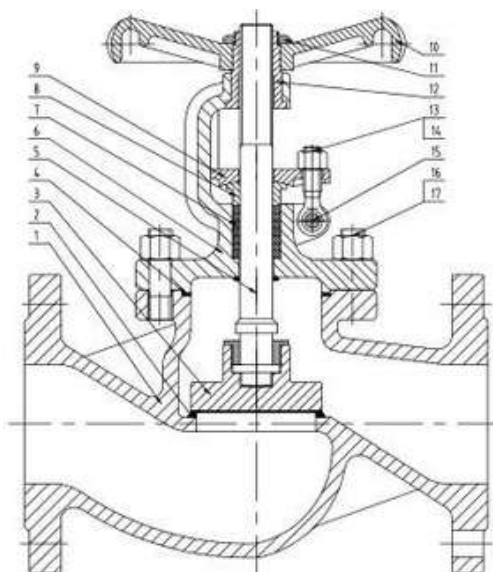
Flanged ends: DIN EN 1092-1:2002

Welded ends: DIN EN 12627

Test & inspection: DIN EN 12266:2003

APPLICATION

Thermal oil system, steam system,
hot and cold water system etc...



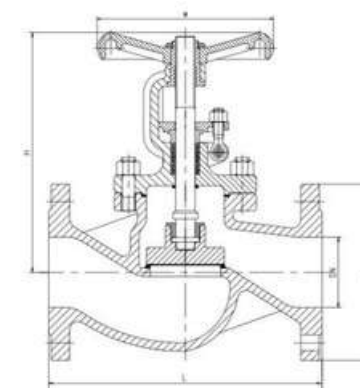
PRODUCT PARTS AND MATERIALS

NO.	PART	MATERIAL		
1	BODY	GS-C 25/1.061	CF 8/1.4301	CF 8/1.4408
2	SEAT	9 OVERLAY 13Cr	SS304	SS316
3	DISC SURFACE	OVERLAY 13Cr	SS304	SS316
4	GASKET	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS
5	STEM	X20Cr13 GS-C	SS304	SS316
6	BONNET	25/1.061 9	CF 8/1.4301	CF 8 M/1.4408
7	PACKING	GRAPHITE WCB	GRAPHITE	GRAPHITE
8	GLAND	WCB	CF 8/1.4301	CF 8 M/1.4408
9	GLAND FLANGE	STEEL	CF 8/1.4301	CF 8 M/1.4408
10	HAND WHEEL	STEEL	STEEL	STEEL
11	LOCK NUT	DUCTILE IRON	A194 8	A194 8
12	STEM NUT	A193 B7	COPPER ALLOY	COPPER ALLOY
13	EYEBOLT	A194 2H	A193 B8	A193 B8M
14	NUT	STEEL	A194 8	A194 8M
15	PIN	A193 B7	STEEL	STEEL
16	BONNET BOLT	A194 2H	A193 B8	A193 B8M
17	BONNET NUT		A194 8	A194 8M

Notes: Above parts materials are used for conventional product. If there are special requirements, which can be changed according to customer requirements. For example, the sealing can be

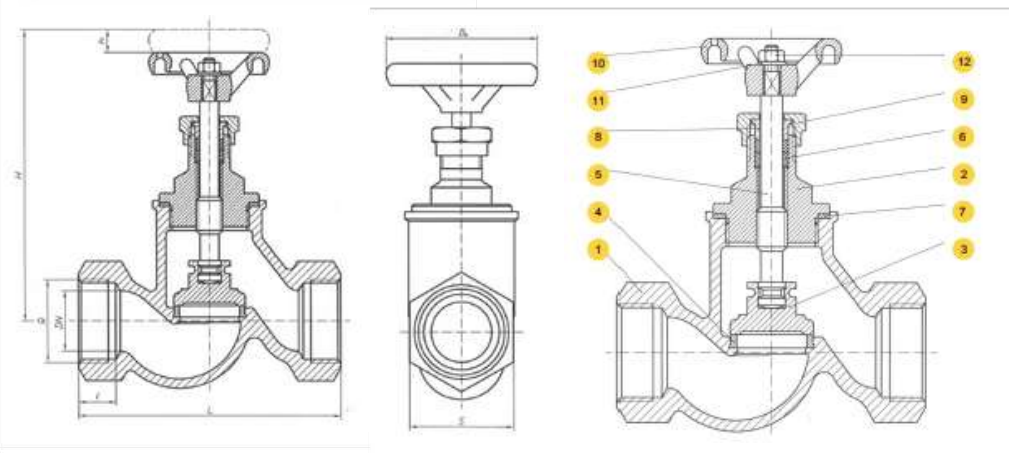
MAIN DIMENSION (MM)

Fig.VK911 PN16																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	220	250	285	340	405	480	520	580
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	195	195	215	219	247	256	282	305	385	430	470	650	775	852	1005	1140
Weight(kg)	4.2	5.1	6.2	8.2	9.8	13	17.5	23	37	53	82	140	252	310	540	760
Kvs(m3/h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK912 PN25																
Siz eDN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	195	195	215	219	247	256	282	305	385	430	470	650	775	852	1005	1140
Weight(kg)	4.2	5.1	6.2	8.2	9.8	13	18	24	38	55	85	146	265	330	580	790
Kvs(m3/h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK913 PN40																
Siz eDN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	195	195	215	219	247	256	282	305	385	430	470	650	775	852	1005	1140
Weight(kg)	4.2	5.1	6.2	8.2	9.8	13	19	25	40	57	88	148	280	350	620	830
Kvs(m3/h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950



MATERIALS LIST

NO.	PART	MATERIAL
1	BODY	EN GJL 250 5.1301 (EX JL 1040)
2	BONNET	EN GJL 250 5.1301 (EX JL 1040)
3	DISC	X20Cr13 1.4021
4	SEAT RING	X12Cr13 1.4006
5	STEM	X20Cr13 1.4021
6	GLAND PACKING	ALL GRAPHITE
7	GASKET	CARBAMIDE RUBBER
8	PACKING GLAD	CARBON STEEL
9	NUT	CARBON STEEL
10	HAND WHEEL	EN GJL 250 5.1301 (EX JL 1040)
11	WASHER	CARBON STEEL + ZINC GALVANISED
12	NUT	CARBON STEEL + ZINC GALVANISED
13	MAX TEMPERATURE	200 °C
14	NOMINAL PRESSURE	16 BAR



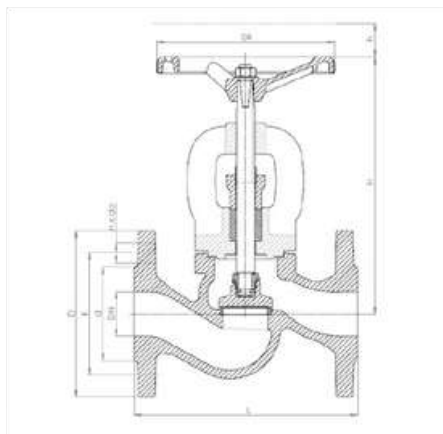
DIMENSION (MM)

DN (mm)	g (mm)	l (mm)	H (mm)	L (mm)	Dk (mm)	h (mm)	kg
10	G 3/8	12	112	85	64	7	0.7
15	G 1/2	14	118	90	64	9	0.9
20	G 3/4	16	118	100	64	9	1.0
25	G 1	18	138	120	80	9	1.45
32	G 1 1/4	20	165	140	80	13	2.1
40	G 1 1/2	22	185	170	100	18	3.0
50	G 2	24	198	200	100	20	4.3

DESCRIPTION

1. Confirms to DIN 86251-1974
2. Flanged drilled to DIN 2501
3. Face to face dimensions confirm to DIN 3202, F1
4. Suitable media: water, oil, water steam

BODY MATERIAL	NOMINAL PRESSURE	NOMINAL DIA METER	MAX TEMPERATURE
A GREY CAST IRON	A 6 BAR C 16 BAR	DN 15-300	300 °C



MATERIALS LIST

NO.	PART	MATERIAL
1	BODY	CAST IRON GG25
2	SEAT RING	CAST BRASS OR STAINLESS STEEL
3	DISC	CAST IRON WITH BRASS OR STAINLESS STEEL SEAL RING/ X2013Cr
4	RETAINING RING	STEEL
5	SCREW	STEEL
6	BONNET BUSCHING	CAST BRASS
7	BONNET GASKET	GRAPHITE
8	BONNET	CAST IRON GG25
9	STEM	STEEL
10	PACKING	GRAPHITE
11	PACKING GLAND	CAST IRON GG25
13	HANDWHEEL	CAST IRON GG25
14	WASHER	STEEL
15	NUT	STEEL
16	STEEL BALL	STEEL
17	SCREW	STEEL
18	PACKING WASHER	CAST IRON GG25
19	GLAND FOLLOWER	CAST IRON GG25
20	YOKE BUSCHING	CAST BRASS
21	SCREW	STEEL
22-25	BOLT & NUT	STEEL

DIMENSION (MM)

DN	PN 6 (mm)				PN 16 (mm)				PN 25 (mm)				PN 6,16,25 (mm)					
	D	d	K	nxd	D	d	K	nxd	D	d	K	nxd	Dk	h	HL		KG	kV (m3/h)
15	80		3855	4x11	95	46	65	4x14	95	46	65	4x14	100	5	130	167 3,3		5,9
20	90		4865	4x11	105	56	75	4x14	105	56	75	4x14	100	5,5	150	167 3,9		7,4
25	100		5875	4x11	115	65	85	4x14	115	65	85	4x14	120	7	160	175 5		13
32	120		6990	4x14	140	76	100	4x19	140	76	100	4x19	120	14	180	186 6,6		18
40	130		78100	4x14	150	84	110	4x19	150	84	110	4x19	160	20	200	235 8,4		30
50	140		88110	4x14	165	99	125	4x19	165	99	125	4x19	160	25	230	248 12		41
65	160		108130	4x14	185	118	145	4x19	185	118	145	8x19	180	35	290	260 17,3		79
80	190		124150	4x19	200	132	160	8x19	200	132	160	8x19	200	41	310	291 22,7		115
100	210		144170	4x19	220	156	180	8x19	235	156	190	8x23	250	31	350	388 35,8		181
125	240		174200	8x19	250	184	210	8x19	270	184	220	8x28	250	48	400	384 52,8		225
150	265		199225	8x19	285	211	240	8x23	300	211	250	8x28	320	54	480	429 74,2		364
200	320		254280	8x19	340	266	295	1 2x 28	360	274	310	1 2x 28	360	77	600	529 126		690
250					405	319	355	1 2x 28					360	120	730	688 200		1010
300					460	370	410	1 2x 28					500	120	850	710 315		1460

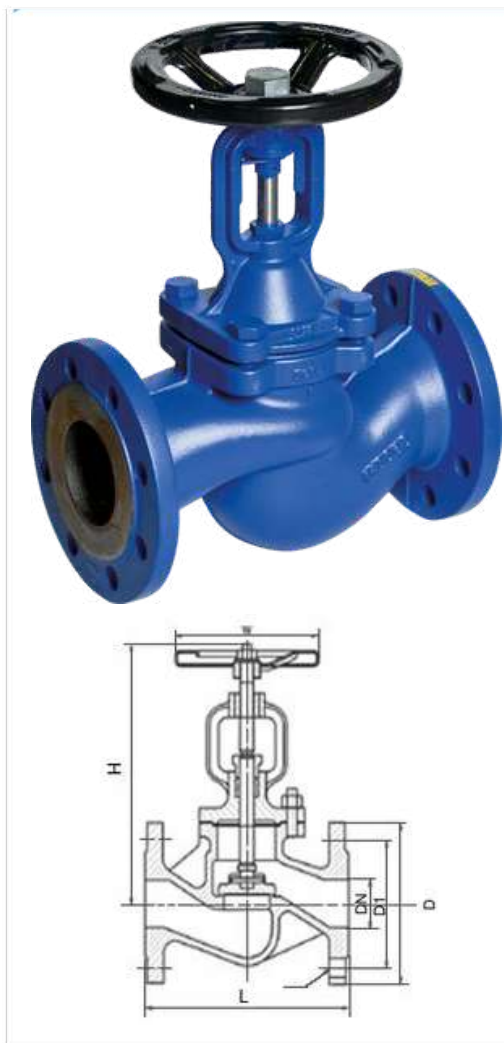
DESCRIPTION

1. Designas **DIN3356-82**
2. Test Standard: **DIN3230-75**
3. Face to face: **DIN3202 F1**
4. Flanges: **DIN2543-2546**
5. Suitable Medium: **W.O.G.**
6. Suitable temperature: **-20-350 °C**

MATERIALS LIST

NO.	PART	MATERIAL	OPTIONAL MATERIAL	
1	BODY	G S-C	1Cr18Ni9Ti	CF3, CF8
2	BONNET	25 G S-	1Cr18Ni9Ti	CF3, CF8
3	STEM	C 25	1Cr18Ni9Ti	SS316
4	TRIM	2Cr13	1Cr18Ni9Ti	SS316 304,
5	SEAT	2Cr13	1Cr18Ni9Ti STL	316, STL

2Cr13



DIMENSION (MM)

DN (mm)	L	H	W		WEIGHT (KG)		
			PN 16 25	PN 40	PN 16	PN 25	PN 40
15	130	191	120	140	3.7	4.3	4.3
20	150	191	120	140	4.4	4.8	4.8
25	160	197	140	140	5.1	6.3	6.3
32	180	200	140	160	7.5	7.8	7.8
40	200	218	160	180	8.8	10.3	10.3
50	230	220	180	180	12.2	12.6	12.6
65	290	238	180	200	16.1	19.0	19.0
80	310	257	200	250	21.4	25.0	25.0
100	350	340	250	300	33.0	35.0	35.0
125	400	360	300	350	51.0	56.0	56.0
150	480	390	300	350	69.0	74.0	74.0
200	600	530	400	450	105.0	144.0	160.0
250	730	665	520	520	180.0	238.0	260.0
300	850	720	520	520	265.0	339.0	370.0

DESCRIPTION

1. Designas **DIN3356-82**
2. Test Standard: **DIN3230-75**
3. Face to face: **DIN3202 F1**
4. Flanges: **DIN2543-2546**
5. Suitable Medium: **W.O.G.**
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MATERIALS LIST

NO.	PART	MATERIAL	OPTIONAL MATERIAL	
1	BODY	G S-C	1Cr18Ni9Ti	CF3, CF8
2	BONNET	25 G S-	1Cr18Ni9Ti	CF3, CF8
3	STEM	C 25	1Cr18Ni9Ti	SS316
4	TRIM	2Cr13	1Cr18Ni9Ti	SS316 304,
5	SEAT	2Cr13	1Cr18Ni9Ti STL	316, STL



DIMENSION (MM)

DN (mm)	L	H	W		PATH DH	WEIGHT (KG)			kv
			PN 16 25	PN 40		PN 16	PN 25	PN 40	
15	130	191	120	140	6	3.7	4.3	4.3	4.2
20	150	191	120	140	6	4.4	4.8	4.8	7.4
25	160	197	140	140	8	5.1	6.3	6.3	12.0
32	180	200	140	160	8	7.5	7.8	7.8	19.0
40	200	218	160	180	13	8.8	10.3	10.3	30.0
50	230	220	180	180	13	12.2	12.6	12.6	47.0
65	290	238	180	200	16	16.1	19.0	19.0	77.0
80	310	257	200	250	20	21.4	25.0	25.0	120.0
100	350	340	250	300	25	33.0	35.0	35.0	188.0
125	400	360	300	350	32	51.0	56.0	56.0	288.0
150	480	390	300	350	40	69.0	74.0	74.0	410.0
200	600	530	400	450	50	105.0	144.0	160.0	725.0
250	730	665	520	520	65	180.0	238.0	260.0	1145.0
300	850	720	520	520	75	265.0	339.0	370.0	1635.0

PERFORMANCE ADVANTAGE

1. Bellows is the key part of bellow sealed valves, which is welded to both the valve bonnet and valve stem, with automatic roll welding. The metal bellow can keep the stem part 100% no leakage.
2. Double seal design (bellows + packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the bellow failed.
3. Overlay welded seat can keep reliable sealing under severe conditions.
4. Ergonomic hand wheel. It provides longer service life and easier operation.

TECHNICAL SPECIFICATION

Design standard: DIN EN 13709:2003

Face to face dimension: DIN EN 558-1:1995

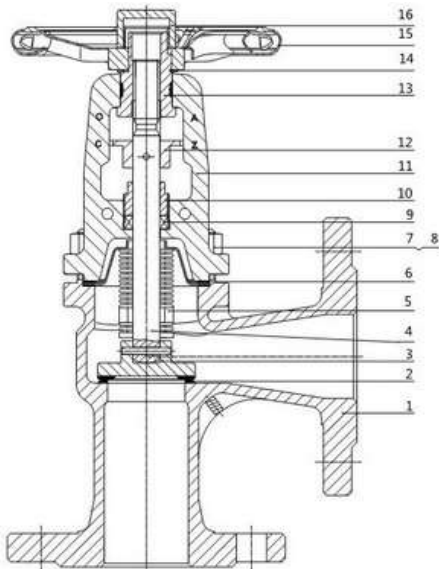
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APPLICATION

Thermal oil system, steam system,
hot and cold water system etc...



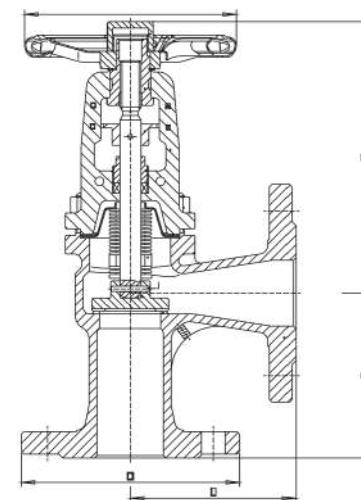
PRODUCT PARTS AND MATERIALS

NO.	PART	MATERIAL		
1	BODY	G S -C 25/1 .061 9 OVERLAY	C F 8 /1 .4301 SS304 SS304	C F 8 /1 .4408 SS316 SS316
2	SEAT	13Cr OVERLAY 13Cr X20Cr 1	SS304	SS316
3	DISC SURFACE	3	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti
4	STEM	SS304/SS316/SS321/SS316Ti	GRAPHITE+SS A194 8 A193	GRAPHITE+SS A194 8M A193
5	BELLOWS	GRAPHITE+SS A194 2H A193	B8	B8M
6	GASKET	B7	GRAPHITE	GRAPHITE
7	NUT	GRAPHITE	STEEL	STEEL
8	BOLT	STEEL	C F 8 /1 .4301	C F 8 /1 .4408
9	PACKING	G S -C 25/1 .061 9	C.S.	C.S.
10	GLAND	C.S.	COPPER ALLOY	COPPER ALLOY
11	BONNET	DUCTILE IRON	STEEL	STEEL
12	GUIDE PIECE	STEEL	STEEL	STEEL
13	STEM NUT	STEEL	A105	A105
14	PIN	A105		
15	HAND WHEEL			
16	LOCK NUT			

Notes: Above parts materials are used for conventional product. If there are special requirements, which can be changed according to customer requirements. For example, the sealing can be Stellite.

MAIN DIMENSION (MM)

Fig.VK711 PN16																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475
D	95	105	115	140	150	165	185	200	220	250	285	340	405	480	520	580
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	200	200	212	212	248	248	287	320	390	412	470	630	740	840	990	1100
Weight(kg)	3.8	4.8	5.7	7.6	9	12	16	22	33	45	70	135	260	305	510	740
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK712 PN25																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475
D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	200	200	212	212	248	248	287	320	390	412	470	630	740	840	990	1100
Weight(kg)	3.8	4.8	5.7	7.6	9	12	16	22	34	46	72	138	270	310	520	760
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK713 PN40																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF /BW	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	200	200	212	212	248	248	287	320	390	412	470	630	740	840	990	1100
Weight(kg)	3.8	4.8	5.7	7.6	9	12	16	22	35	48	75	140	275	315	530	770
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950



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1. Bellow is the key part of bellow sealed valves, which is welded to both the valve bonnet and valve stem, with automatic roll welding. The metal bellow can keep the stem part 100% no leakage.
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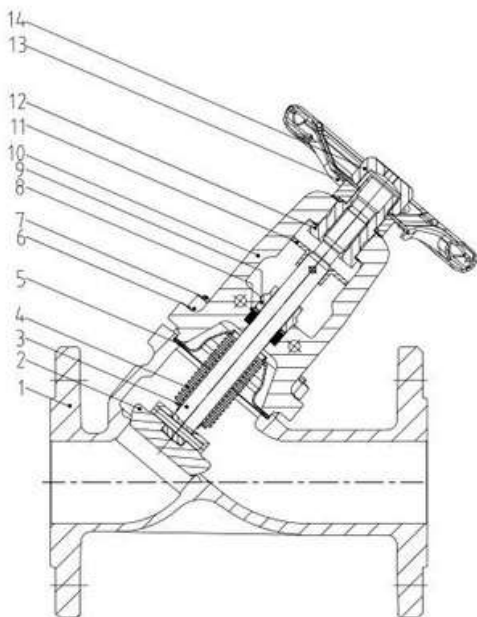
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APPLICATION

Thermal oil system, steam system,
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PRODUCT PARTS AND MATERIALS

NO.	PART	MATERIAL		
1	BODY	G S -C 25/1 .061 9 A1 05+ 1	C F 8 /1 .4301 SS304 SS304	C F 8 /1 .4408 SS316 SS316
2	DISC	3C r X20C r 1 3	SS304/SS316/SS321/SS316T	SS304/SS316/SS321/SS316T
3	STEM	SS304/SS316/SS321/SS316T	i GRAPHITE+SS A194 8 A193	i GRAPHITE+SS A194 8M
4	BELLOWS	i GRAPHITE+SS A194 2H	B8 G R A PHI TE STEEL C F 8 /1	A193 B8M G R A PHI TE STEEL
5	GASKET	A193 B7 G R A PHI TE STEEL G	.4301 C.S. COPPER ALLOY	C F 8 /1 .4408 C.S. COPPER
6	NUT	S -C 25/1 .061 9 C.S STEEL	STEEL A105	ALLOY STEEL A105
7	BOLT	STEEL A105		
8	PAC K I N G			
9	G L A N D			
10	BONNET			
11	GUIDE PIECE			
12	STEM NUT			
13	HAND WHEEL			
14	LOCK NUT			

Notes: Above parts materials are used for conventional product. If there are special requirements, which can be changed according to customer requirements. For example, the sealing can be Stellite.

MAIN DIMENSION (MM)

Fig.VK611 PN16																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
LR/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	220	250	285	340	405	480	520	580
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	192	192	207	207	245	253	295	328	385	427	480	672	775	852	1005	1140
Weight(kg)	4	4.8	5.8	7.8	9.5	12.5	17	22	36	52	81	135	240	305	510	740
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK612 PN25																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
LR/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	192	192	207	207	245	253	295	328	385	427	480	672	775	852	1005	1140
Weight(kg)	4	4.8	5.8	7.8	9.5	12.5	17	22	37	53	82	140	245	315	530	760
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950
Fig.VK613 PN40																
Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
LR/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660
W	140	140	160	160	180	200	220	250	300	350	400	450	550	600	700	700
H	192	192	207	207	245	253	295	328	385	427	480	672	775	852	1005	1140
Weight(kg)	4	4.8	5.8	7.8	9.5	12.5	17.5	23	38	54	83	142	260	320	560	790
Stroke	8	8	10	10	12	15	17	22	28	34	40	60	75	85	100	110
Kvs(m ³ /h)	4.2	7.4	12	19	30	47	77	120	188	285	410	725	1140	1660	2230	2950

