
性能优势 PERFORMANCE ADVANGATE

1. 波纹管是波纹管阀门的关键组件，采用自动滚焊，焊在阀瓣与阀杆上，确保阀杆部件100%零泄露。
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.
2. 双密封设计（波纹管+填料）。波纹管形成第一道金属密封防止泄漏，如果波纹管失效，填料可以提供第二道密封。
Double seal design (bellows+packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the bellow failed.
3. 堆焊阀座，即使在恶劣工况下，也能确保可靠的密封。
Overlay welded seat can keep reliable sealing under severe conditions.
4. 人体工程学设计手轮，使用寿命更长，操作轻松便捷且安全可靠。
Ergonomic hand wheel. It provide longer service life and easier Operation.

技术规范 TECHNICAL SPECIFICATION

设计标准 Design standard: API 600
 结构长度 Face to face dimension: ASME B16.10
 连接法兰 Flanged ends: ASME B16.5
 对焊连接 Welded ends: ASME B16.25
 试验与检验 Test & inspection: API 598

应用 APPLICATION

热油系统、蒸汽系统、冷热水系统等等
 Thermal oil system, steam system, hot and cold water system etc.

产品零部件材料 PRODUCT PARTS AND MATERIALS

序号/No.	零件名称 Parts Name	材质 Materials		
1	阀体 Body	WCB	CF8	CF8M
2	阀瓣 Disc	WCB+13Cr	CF8+STL.6	CF8M+STL.6
3	阀座密封面 Disc surface	Overlay 13Cr	SS304	SS316
4	阀杆 Stem	X20Cr13	SS304	SS316
5	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
6	螺母 Nut	A194 2H	A194 8	A194 8M
7	垫片 Gasket	Graphite+SS	Graphite+SS	Graphite+SS
8	加长阀盖 Extended bonnet	WCB	CF8	CF8M
9	波纹管 Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS316/SS321/SS316Ti
10	垫片 Gasket	Graphite+SS	Graphite+SS	Graphite+SS
11	阀盖 Bonnet	WCB	CF8	CF8M
1t2	填料 Packing	Graphite	Graphite	Graphite
13	压盖 Gland	A105	CF8	CF8M
14	压盖法兰 Gland flange	WCB	CF8	CF8M
15	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
16	螺母 Nut	A194 2H	A194 8	A194 8M
17	锁紧螺母 Lock nut	A105	A105	A105
18	油嘴 Grease Nipple	H2	H2	H2
19	阀杆螺母 Stem nut	Ductile iron	Copper alloy	Copper alloy
20	手轮 Hand wheel	Steel	Steel	Steel

备注 Notes: 以上零件为常规产品材质，如有特殊要求，可根据客户要求变动，如密封面为司太立。
 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.

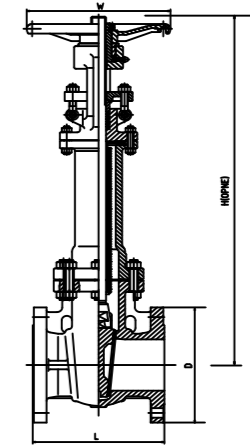
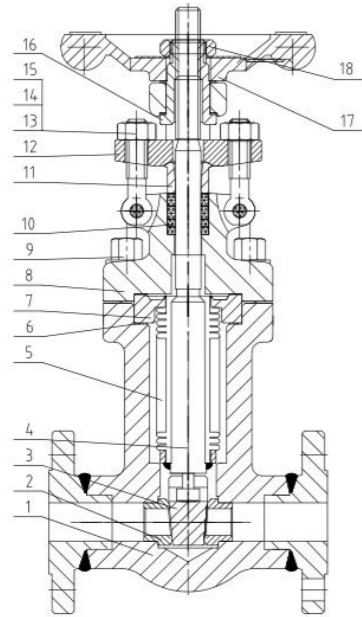

主要连接尺寸 MAIN DIMENSIONS(mm)

Fig.VK111 150LB														
口径 NPS in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
口径 Size DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
总长 L RF	178	191	203	229	254	267	292	330	356	381	406	432	457	508
总长 L RTJ	191	203	216	241	267	279	305	434	368	394	419	445	470	521
总长 L BW	216	241	283	305	381	403	419	457	502	572	610	660	711	813
外圆 D	152	178	190	229	254	279	343	406	483	533	597	635	699	813
手轮 W	200	200	250	280	280	300	360	400	450	500	500	600	700	800
中心高 H	440	520	570	690	810	920	1200	1450	1650	1920	2150	2450	2700	3200
Fig.VK112 300LB														
口径 NPS in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
口径 Size DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
总长 L RF	216	241	283	305	381	403	419	457	502	762	838	914	991	1143
总长 L RTJ	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165
总长 L BW	216	241	283	305	381	403	419	457	502	762	838	914	991	1143
外圆 D	165	191	210	254	279	318	381	445	521	584	648	711	775	914
手轮 W	200	200	250	280	300	350	400	450	500	600	600	650	700	800
中心高 H	450	560	590	730	850	960	1250	1500	1720	2100	2250	2620	2900	3380
Fig.VK113 600LB														
口径 NPS in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
口径 Size DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
总长 LRF	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
总长 L RTJ	295	333	359	435	511	562	664	791	841	892	994	1095	1200	1407
总长 L BW	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
外圆 D	165	191	210	273	330	356	419	508	559	603	686	743	813	940
手轮 W	200	250	280	300	350	450	500	650	700	800	900	900	-	-
中心高 H	465	585	600	750	870	980	1270	1525	1750	2140	2270	2650	2930	3390


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Bellow is the key part of bellows 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. 双密封设计(波纹管+填料)。波纹管形成第一道金属密封防止泄漏, 如果波纹管失效, 填料可以提供第二道密封。

Double seal design(bellows+packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the bellow failed.

设计特征 DESIGN FEATURE

螺栓阀盖 Bolt bonnet(BB)

焊接阀盖 Welded bonnet (WB)

明杆支架型 Outside screw and yoke(OS&Y)

技术规范 TECHNICAL SPECIFICATION

设计标准 Design standard: API 602; MSS-SP-117

连接端 Connection ends:

(1) 承插焊 Socket welded end: ANSI B16.11

(2) 螺纹 Screw end: ANSI B1.20.1

(3) 对焊 Butt-welded end: ANSI B16.25

(4) 法兰 Flange end: ANSI B16.5

结构长度 Face to face dimension: ASME B16.10

连接法兰 Flanged ends: ASME B16.5

对焊连接 Welded ends: ASME B16.25

试验与检验 Test & inspection: API 598

应用 APPLICATION

热油系统、蒸汽系统、冷热水系统等等

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

产品零部件材料 PRODUCT PARTS AND MATERIALS

序号/No.	零件名称 Parts Name	材质 Materials		
1	阀体 Body	A105	F304	F316
2	阀座 Seat	13Cr	F304	F316
3	阀瓣 Disc	13Cr	F304	F316
4	阀杆 Stem	X20Cr13	SS304	SS316
5	波纹管 Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS316/SS321/SS316Ti
6	垫片 Gasket	Graphite+SS	Graphite+SS	Graphite+SS
7	波纹管连接片 Bellow cover	SS304	SS304	SS316
8	阀盖 Bonnet	A105	F304	F316
9	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
10	填料 Packing	Graphite	Graphite	Graphite
11	压盖 Gland	A105	F304	F316
12	压盖法兰 Gland flange	WCB	F304	F316
13	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
14	螺母 Nut	A194 2H	A194 8	A194 8M
15	插销 Pin	SS410	SS410	SS410
16	阀杆螺母 Stem nut	Ductile iron	Copper alloy	Copper alloy
17	手轮 Hand wheel	Steel	Steel	Steel
18	锁紧螺母 Lock nut	A105	A105	A105

备注Notes: 以上零件为常规产品材质, 如有特殊要求, 可根据客户要求变动, 如密封面为司太立。

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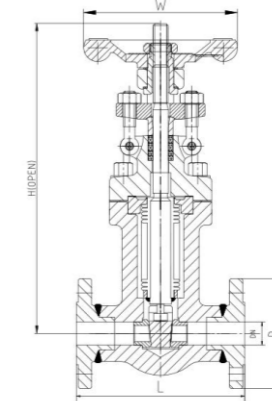
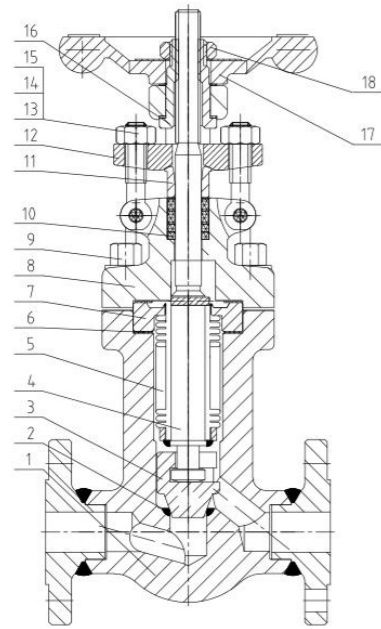

主要连接尺寸 MAIN DIMENSIONS(mm)

Fig.VK114 800LB									
缩颈	Reduce bore	-	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	-
通径	Full bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长 FTF	L SW/BW/NPT	79	79	92	111	120	120	140	178
手轮	Handwheel(W)	100	100	100	125	160	160	180	200
中心高(开)	H(OPEN)	237	237	239	270	298	340	395	470
流道口大小 d	Port diameter(d)	7.5	10.5	13.5	18	24	29	36.5	45
重量	Weight(kg)	3.0	3.0	3.3	5.9	8.7	10.2	16.2	18.8
Fig.VK115 1500LB									
缩颈	Reduce bore	-	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	-
通径	Full bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长 FTF	L SW/BW/NPT	79	111	111	120	120	140	178	180
手轮	Handwheel(W)	100	125	125	160	160	180	200	220
中心高(开)	H(OPEN)	294	330	380	380	400	450	520	650
流道口大小 d	Port diameter(d)	7.5	10.5	13.5	18	24	29	36.5	45
重量	Weight(kg)	3.3	3.5	5.0	7.5	10	16	25	29
Fig.VK111/112/113 150LB/300LB/600LB									
缩颈	Reduce bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长 FTF L	150LB RF	-	-	108	117	127	140	165	178
	300LB RF	-	-	140	152	165	178	190	216
	600LB RF	-	-	165	190	216	229	241	292
手轮	Handwheel(W)	-	-	100	100	125	160	160	180
中心高(开) H(OPEN)	150LB	-	-	340	340	360	380	450	540
	300LB	-	-	350	350	375	400	470	570
	600LB	-	-	360	360	390	430	500	600
流道口大小 d	Port diameter(d)	-	-	9.0	13	17.5	23	30	35
重量 Weight(kg)	150LB RF/BW	-	-	4.2/3.5	4.8/4.1	7.7/6.4	12.5/11	14.5/12.5	21/18
	300LB RF/BW	-	-	4.5/3.7	5.2/4.2	8.2/7.1	14.5/12	16/13	22/19
	600LB RF/BW	-	-	6.0/5.0	8.0/6.5	13/10	18/15	25/19	40/35


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4	阀杆 Stem	X20Cr13	SS304	SS316
5	波纹管 Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS316/SS321/SS316Ti
6	垫片 Gasket	Graphite+SS	Graphite+SS	Graphite+SS
7	波纹管连接片 Bellow cover	SS304	SS304	SS316
8	阀盖 Bonnet	A105	F304	F316
9	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
10	填料 Packing	Graphite	Graphite	Graphite
11	压盖 Gland	A105	F304	F316
12	压盖法兰 Gland flange	WCB	F304	F316
13	螺栓 Bolt	A193 B7	A193 B8	A193 B8M
14	螺母 Nut	A194 2H	A194 8	A194 8M
15	插销 Pin	SS410	SS410	SS410
16	阀杆螺母 Stem nut	Ductile iron	Copper alloy	Copper alloy
17	手轮 Hand wheel	Steel	Steel	Steel
18	锁紧螺母 Lock nut	A105	A105	A105

备注Notes: 以上零件为常规产品材质，如有特殊要求，可根据客户要求变动，如密封面为司太立。

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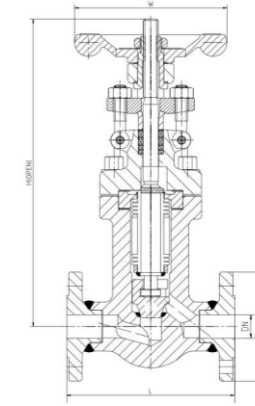

主要连接尺寸 MAIN DIMENSIONS(mm)

Fig.VK214 800LB									
缩颈	Reduce bore	-	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	-
通径	Full bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长FTF	L SW/BW/NPT	79	79	92	111	120	152	172	200
手轮	Handwheel(W)	100	100	100	125	160	160	180	200
中心高(开)	H(OPEN)	237	237	239	270	298	340	395	470
流道口大小d	Port diameter(d)	7.5	10.5	13.5	18	24	29	36.5	45
重量	Weight(kg)	3.0	3.0	3.3	5.9	8.7	10.2	16.2	18.8
Fig.VK215 1500LB									
缩颈	Reduce bore	-	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	-
通径	Full bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长FTF	L SW/BW/NPT	92	111	111	120	152	172	200	220
手轮	Handwheel(W)	100	125	125	160	160	180	200	220
中心高(开)	H(OPEN)	294	330	380	380	400	450	520	650
流道口大小d	Port diameter(d)	7.5	10.5	13.5	18	24	29	36.5	45
重量	Weight(kg)	3.3	3.5	5.0	7.5	10	16	25	29
Fig.VK211/212/213 150LB/300LB/600LB									
缩颈	Reduce bore	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
总长FTF L	150LB RF	-	-	108	117	127	140	165	203
	300LB RF	-	-	152	178	203	216	229	267
	600LB RF	-	-	165	190	216	229	241	292
手轮	Handwheel(W)	-	-	100	100	125	160	160	180
中心高(开) H(OPEN)	150LB	-	-	340	340	360	380	450	540
	300LB	-	-	350	350	375	400	470	570
	600LB	-	-	360	360	390	430	500	600
流道口大小d	Port diameter(d)	-	-	9.0	13	17.5	23	30	35
重量 Weight(kg)	150LBRF/BW	-	-	4.2/3.5	4.8/4.1	7.7/6.4	12.5/11	14.5/12.5	21/18
	300LBRF/BW	-	-	4.5/3.7	5.2/4.2	8.2/7.1	14.5/12	16/13	22/19
	600LBRF/BW	-	-	6.0/5.0	8.0/6.5	13/10	18/15	25/19	40/35