



波纹管闸阀
Bellows Gate Valve

国标 (GB) / 美标 (ASME) / 德标 (DIN)

波纹管闸阀 (Bellows Gate Valve)

一种通过楔形闸板垂直升降来控制管道流体通断的阀门。万龙波纹管闸阀在此基础上,采用波纹管密封设计,分为双波纹管 and 单波纹管两种类型。

A valve that controls the opening or shutting off of pipeline flow by means of the vertical lifting of a wedge-shaped gate. Based on this design, the Wanlong Bellows Gate Valve incorporates a bellows sealing structure and is available in two types: double bellows and single bellows.



- **产品优点:** 多层密封, 零泄露
- **国标公称通径:** DN15~DN600
- **公称压力:** PN16~PN260
- **美标公称通径:** 1/2"~40"
- **公称压力:** 150LB~1000LB
- **使用温度:** -101°C~650°C
- **结构特色:** 采用双密封面的楔式密封结构。当一侧密封面受损时,另一侧密封面仍可独立实现有效密封。

- **Product Advantages:** Multi-layer sealing, zero leakage
- **DN:** DN15~DN600
- **PN:** PN16~PN260
- **NPS:** 1/2"~40"
- **Class:** 150LB~1000LB
- **Operating Temperature:** -101°C~650°C (-149.8°F ~ 1202°F)
- **Structural Feature:** Adopts a wedge-type sealing structure with dual sealing surfaces. When one sealing surface is damaged, the other can still independently maintain effective sealing.

单波纹管闸阀 (Single Bellows Gate Valve)

法兰连接(Flanged Connection)

设计制造: GB/T 12234

法兰尺寸: GB/T 9124

结构长度: GB 12221

试验—检验: GB/T 26480

氦质谱检漏: API 602

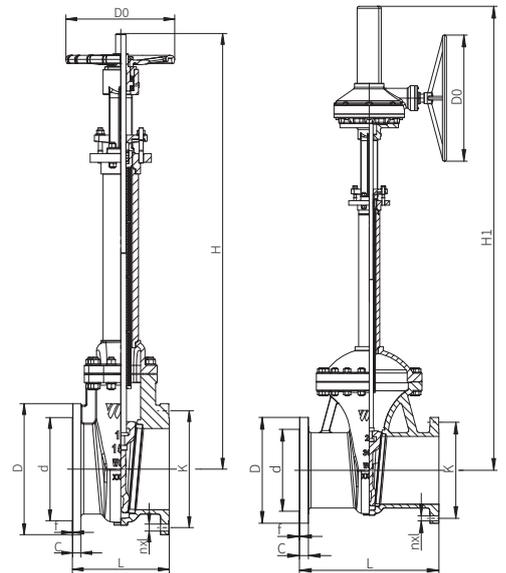
Design and manufacturing standard: GB/T 12234

Flange Dimensions standard: GB/T 9124

Structural length: GB 12221

Test - Inspection standard: GB/T 26480

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	D	K	n*l	d	f	C
15	16-40	140	130	265-280	95	65	4*14	45	2	16
20	16-40	152	130	265-280	105	75	4*14	58	2	18
25	16-40	165	130	276-297	115	85	4*14	68	2	18
32	16-40	178	160	308-322	140	100	4*18	78	2	18
40	16-40	190	170	333-365	150	110	4*18	88	2	18
50	16-40	216	190	360-408	165	125	4*18	102	2	20
65	16-40	241	250	525-597	185	145	8*18	122	2	22
80	16-40	283	250	529-615	200	160	8*18	138	2	24
100	16	305	320	712-815	220	180	8*18	158	2	20
	25-40	305	320	712-815	235	190	8*22	162	2	24
125	16	325	320	962-1132	250	210	8*18	188	2	22
	25-40	325	320	962-1132	270	220	8*26	188	2	26
150	16	403	350	962-1132	285	240	8*22	212	2	22
	25-40	403	350	962-1132	300	250	8*26	218	2	28
200	16	419	400	1075-1294	340	295	12*22	268	2	24
	25	419	400	1075-1294	360	310	12*26	278	2	30
	40	419	400	1075-1294	375	320	12*30	285	2	34

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	D	K	n*l	d	f	C
250	16	457	500	1370-1636	405	355	12*26	320	2	26
	25	457	500	1370-1636	425	370	12*30	335	2	32
	40	457	500	1370-1636	450	385	12*33	345	2	38
300	16	502	600	1641-1950	460	410	12*26	378	2	28
	25	502	600	1641-1950	485	430	16*30	395	2	34
	40	502	600	1641-1950	515	450	16*33	410	2	42
350	16	572	-	1812-2170	520	470	16*26	438	2	30
	25	572	-	1812-2170	555	490	16*33	450	2	38
	40	572	-	1812-2170	580	510	16*36	465	2	46
400	16	610	-	2041-2450	580	525	16*30	490	2	32
	25	610	-	2041-2450	620	550	16*36	505	2	40
	40	610	-	2041-2450	660	585	16*39	535	2	50
450	16	660	-	2315-2770	640	585	20*30	550	2	40
	25	660	-	2315-2770	670	600	20*36	555	2	46
	40	660	-	2315-2770	685	610	20*39	560	2	57
500	16	711	-	2557-3059	715	650	20*33	610	2	44
	25	711	-	2557-3059	730	660	20*36	615	2	48
	40	711	-	2557-3059	755	670	20*42	615	2	57
600	16	787	-	2000-2700	840	770	20*36	720	2	54
	25	787	-	2000-2700	845	770	20*39	720	2	58
	40	787	-	2000-2700	890	795	20*48	735	2	72

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。

H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

单波纹管管闸阀 (Single Bellows Gate Valve)

法兰连接 (Flanged Connection)

设计制造: API 600

法兰尺寸: ASME B16.5

结构长度: ASME B16.10

试验—检验: API 598

氦质谱检漏: API 602

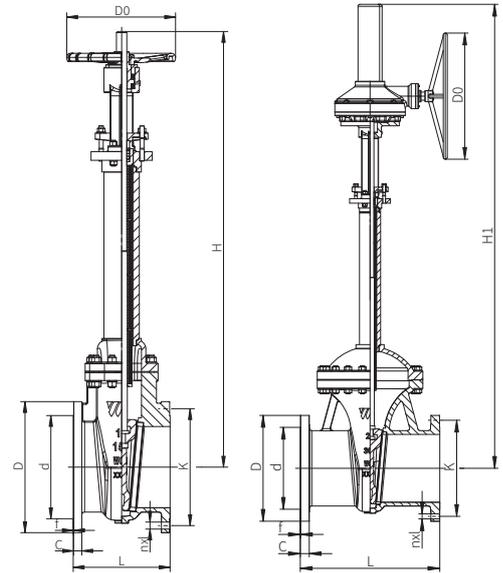
Design and manufacturing standard: API 600

Flange Dimensions standard: ASME B16.5

Structural length: ASME B16.10

Test - Inspection standard: API 598

Helium mass spectrometer leak detection: API 602



NPS	CLASS	L	D0	H	D	K	n*l	d	f	C
1/2"	150	108	95	265-280	89	60.5	4*16	35.1	1.5	9.7
	300	140	95	265-280	95	66.5	4*16	35.1	1.5	12.7
3/4"	150	117	95	276-297	99	69.8	4*16	42.9	1.5	11.2
	300	152	95	308-322	117	82.6	4*19	42.9	1.5	14.2
1"	150	127	120	333-365	108	79.2	4*16	50.8	1.5	12.7
	300	165	120	360-408	124	88.9	4*19	50.8	1.5	15.7
1 1/4"	150	140	120	525-597	117	88.9	4*16	63.5	1.5	14.2
	300	178	120	529-615	133	98.6	4*19	63.5	1.5	17.5
1 1/2"	150	165	120	712-815	127	98.6	4*16	73	1.5	15.9
	300	190	120	712-815	155	114.3	4*22.5	73	1.5	19
2"	150	178	185	360-408	152	120.6	4*19	91.9	1.5	17.5
	300	216	185	360-408	165	127	8*19	91.9	1.5	20.6
2 1/2"	150	190	250	525-597	178	139.7	4*19	104.6	1.5	20.6
	300	241	250	525-597	190	149.4	8*22.5	104.6	1.5	23.9
3"	150	203	250	529-615	190	152.4	4*19	127	1.5	22.4
	300	282	250	529-615	210	168.1	8*22.5	127	1.5	26.9
4"	150	229	320	712-815	229	190.5	8*19	157.2	1.5	22.4
	300	305	320	712-815	254	200.2	8*22.5	157.2	1.5	30.2
5"	150	254	320	962-1132	254	215.9	8*22.5	185.7	1.5	22.4
	300	381	320	962-1132	279	235	8*22.5	185.7	1.5	33.2
6"	150	267	320	962-1132	279	241.3	8*22.5	215.9	1.5	23.9
	300	403	320	962-1132	318	269.7	12*22.5	215.9	1.5	35.1
8"	150	292	400	1158-1370	343	298.4	8*22.5	269.7	1.5	26.9
	300	419	400	1158-1377	381	330.2	12*26	269.7	1.5	39.6

口径10"以上, 建议安装执行器。Above NPS 10": install actuator.

NPS	CLASS	L	D0	H	D	K	n*l	d	f	C
10"	150	330	400	1389-1650	406	362	12*26	323.8	1.5	28.4
	300	457	500	1389-1650	444	387.4	16*30	323.8	1.5	46
12"	150	356	400	1664-1981	484	431.8	12*26	381	1.5	30.2
	300	502	600	1664-1981	521	450.8	16*33	381	1.5	49.3
14"	150	381	-	1812-2170	533	476.2	12*30	412.8	1.5	33.3
	300	762	-	1812-2170	584	514.4	20*33	412.8	1.5	52.3
16"	150	460	-	2041-2450	597	539.8	16*30	469.9	1.5	35.1
	300	648	-	2041-2450	648	571.5	20*36	469.9	1.5	55.6
18"	150	432	-	2315-2770	635	577.8	16*33	533.4	1.5	38.1
	300	711	-	2315-2770	711	628.6	24*36	533.4	1.5	58.7
20"	150	457	-	2557-3059	693	635	20*33	584.2	1.5	41.1
	300	991	-	2557-3059	775	685.8	24*36	584.2	1.5	62
24"	150	508	-	2000-2700	813	749.3	36*20	692.2	1.5	46
	300	1143	-	2000-2700	914	812.8	24*42	692.2	1.5	68.3

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。

H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

单波纹管闸阀 (Single Bellows Gate Valve)

对接焊连接 (Butt-Weld Connection)

设计制造: GB/T 12234

焊端尺寸: GB/T 12224

结构长度: GB/T 12221

试验—检验: GB/T 26480

氦质谱检漏: API 602

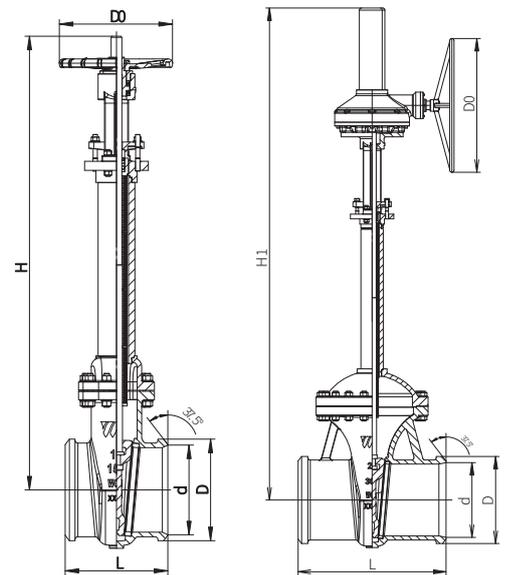
Design and manufacturing standard: GB/T 12234

Weld End Dimension: GB/T 12224

Structural length: GB/T 12221

Test - Inspection standard: GB/T 26480

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	d	D
15	16-40	140	130	265-280	17	35
20	16-40	152	130	265-280	22.3	41
25	16-40	165	130	276-297	28.5	50
32	16-40	178	160	308-322	37.2	56
40	16-40	190	170	333-365	43.1	62
50	16-40	216	190	360-408	54.5	76
65	16-40	241	250	525-597	67.2	92
80	16-40	283	250	529-615	82.5	105
100	16-40	305	320	712-815	107.1	132
125	16-40	381	320	962-1132	133.3	157
150	16-40	403	350	962-1132	159.3	184
200	16-40	419	400	1075-1294	206.5	238

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	d	D
250	16-40	457	500	1370-1636	260	296
300	16-40	502	600	1641-1950	309	348
350	16-40	762	-	1812-2170	360	403
400	16-40	838	-	2041-2450	410	446
450	16-40	914	-	2315-2770	460	507
500	16-40	991	-	2557-3059	510	565

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。

H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

单波纹管管闸阀 (Single Bellows Gate Valve)

对接焊连接 (Butt-Weld Connection)

设计制造: API 600

焊端尺寸: ASME B16.25

结构长度: ASME B16.10

试验—检验: API 598

氦质谱检漏: API 602

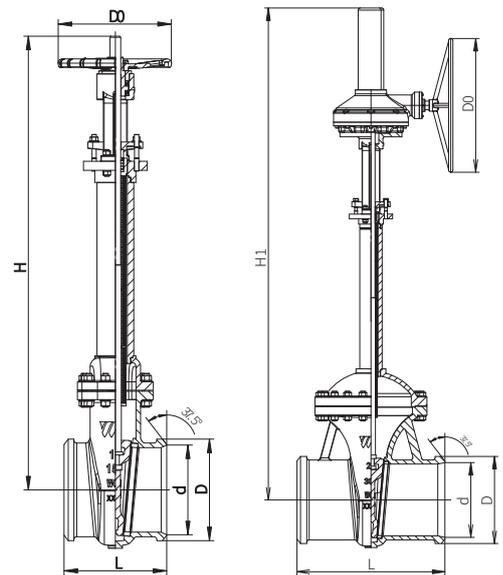
Design and manufacturing standard: API 600

Weld End Dimension: ASME B16.25

Structural length: ASME B16.10

Test - Inspection standard: API 598

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	d	D
1/2"	300	140	95	265-280	15.76	29.5
3/4"	300	152	95	265-280	20.96	36.3
1"	300	165	120	276-297	26.64	45
1 1/4"	300	178	120	308-322	35.08	54.4
1 1/2"	300	190	120	333-365	40.94	61.5
2"	300	216	185	360-408	52.48	75.1
2 1/2"	300	241	250	525-597	62.68	89.8
3"	300	282	250	529-615	77.92	108.3
4"	300	305	320	712-815	102.26	138.1
5"	300	381	320	962-1132	128.2	169.3
6"	300	403	320	962-1132	154.08	200.3
8"	300	419	400	1075-1294	202.74	254.1

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	d	D
10"	300	457	400	1389-1650	254.46	311.2
12"	300	502	400	1641-1950	303.18	365
14"	300	762	-	1812-2170	333.34	403.5
16"	300	838	-	2041-2450	381	457.2
18"	300	914	-	2315-2770	428.66	511.4
20"	300	991	-	2557-3059	477.42	566.4

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。

H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

双波纹管闸阀 (Double Bellows Gate Valve)

设计制造/Design and manufacturing standard: API 600、GB/T 12234

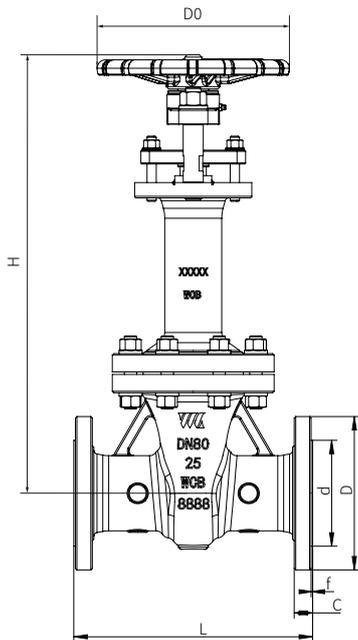
Z系列对接焊连接/Z Series butt-welded connection: ASME B16.25、ASME B16.10

Z系列法兰连接/Z Series flanged connection: ASME B16.5、ASME B16.10

试验—检验/Test - Inspection standard: API 598、GB/T 26480

氦质谱检漏/Helium mass spectrometer leak detection: API 602

Z系列对接焊连接(Z Series butt-welded connection)



CL300					
NPS	L	D0	H	D	d
1/2"	140	95	218	29.5	15.76
3/4"	152	95	218	36.3	20.96
1"	165	120	238	45	26.64
1 1/4"	178	120	320	54.4	35.08
1 1/2"	190	120	338	61.5	40.94
2"	216	185	360	75.1	52.48
2 1/2"	241	250	395	89.8	62.68
3"	282	250	580	108.3	77.92
4"	305	320	765	138.1	102.26
6"	403	320	955	200.3	154.08
8"	419	400	1250	254.1	202.74
10"	457	400	1350	311.2	254.46
12"	502	400	1495	365	303.18
14"	762	-	1625	403.5	333.34
16"	838	-	1950	457.2	381
18"	914	-	2250	511.4	428.66
20"	991	-	2390	566.4	477.42

Z系法兰连接(Z Series flanged connection)

CL150						CL300					
NPS	L	D0	H	D	d	NPS	L	D0	H	D	d
1/2"	108	95	218	89	35.1	1/2"	140	95	218	95	35.1
3/4"	117	95	218	99	42.9	3/4"	152	95	218	117	42.9
1"	127	120	238	108	50.8	1"	165	120	238	124	50.8
1 1/4"	140	120	320	117	63.5	1 1/4"	178	120	320	133	63.5
1 1/2"	165	120	338	127	73	1 1/2"	190	120	338	155	73
2"	178	185	360	152	91.9	2"	216	185	360	165	91.9
2 1/2"	190	250	395	178	104.6	2 1/2"	241	250	395	190	104.6
3"	203	250	580	190	127	3"	282	250	580	210	127
4"	229	320	765	229	157.2	4"	305	320	765	254	157.2
6"	267	320	955	279	215.9	6"	403	320	955	318	215.9
8"	292	400	1250	343	269.7	8"	419	400	1250	381	269.7
10"	330	400	1350	406	323.8	10"	457	500	1350	444	323.8
12"	356	400	1495	484	381	12"	502	600	1495	521	381
14"	381	-	1625	533	412.8	14"	762	-	1625	584	412.8
16"	460	-	1950	597	469.9	16"	648	-	1950	648	469.9
18"	432	-	2250	635	533.4	18"	711	-	2250	711	533.4
20"	457	-	2390	693	584.2	20"	991	-	2390	775	584.2

如需了解阀门具体口径的详细资料, 请咨询万龙销售工程师。

For detailed information about specific valve sizes, please contact our sales engineer.



浙江万龙机械 ZHEJIANG WANLONG MACHINERY CO.,LTD.

浙江杭州萧山经济开发区鸿兴路127号

Tel:0571-82836699

Fax:0571-82831644

E-mail: sales@wanlongcn.com

Web: www.wanlongcn.com

阀体&阀盖

碳钢(喷塑) ASTM A105 105(锻造阀体) ASTM A216 WCB(铸造阀体)
304不锈钢ASTM A276 304 (锻造阀体) ASTM A351 CF8(铸造阀体)
316不锈钢ASTM A276 316 (锻造阀体) ASTM A351 CF8M(铸造阀体)
20号合金(Alloy 20) ASTM A351 Grade Cn7M
蒙乃尔合金(Monel) ASTM A351 M35-1
哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/C-276
双相不锈钢ASTM A995 CD4MCu

波纹管组件

不锈钢ASTM A276 304
不锈钢ASTM A276 304L
不锈钢ASTM A276 316
不锈钢ASTM A276 316L
不锈钢ASTM A182 F91(特殊要求, 请提前联系厂家)
不锈钢ASTM A494 Hastelloy C-22(特殊要求, 请提前联系厂家)
不锈钢ASTM A494 Hastelloy C-276(特殊要求, 请提前联系厂家)

闸板

碳钢(喷塑) ASTM A105 105(锻造阀体) ASTM A216 WCB(铸造阀体)
304不锈钢ASTM A276 304 (锻造阀体) ASTM A351 CF8(铸造阀体)
316不锈钢ASTM A276 316 (锻造阀体) ASTM A351 CF8M(铸造阀体)
20号合金(Alloy 20) ASTM A351 Grade Cn7M
蒙乃尔合金(Monel) ASTM A351 M35-1
哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/C-276
双相不锈钢ASTM A995 CD4MCu

螺栓、螺母

碳钢ASTM A193/A194 氮化调质发黑
不锈钢ASTM A276 304
不锈钢(316)ASTM A276 316

阀杆

哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/ C-276
碳钢GB/T 12201Cr13/2Cr13氮化, 调质发黑
不锈钢(304)ASTM A276 304
不锈钢(316)ASTM A276 316
不锈钢(316L)ASTM A276 316L
不锈钢(410)ASTM A276 410
不锈钢(420) ASTM A276 420
20号合金(Alloy 20) ASTM A351 Grade Cn7M
蒙乃尔合金(Monel) ASTM A351 M35-1

阀座

硬密封GB/T 699 20# +ST6
硬密封ASTM A276 304/316
硬密封ASTM A276 304/316+ST6

轴承压盖

碳钢ASTM A216 WCB
不锈钢(304) ASTM A351 CF8
不锈钢(316) ASTM A351 CF8M
手轮(可根据要求配各种执行器)

碳钢ASTM A216 WCB

不锈钢(304) ASTM A351 CF8
不锈钢(316) ASTM A351 CF8M

填料

柔性石墨+304
编织填料
垫片
金属缠绕垫片

万龙官方网站



万龙官方微信



本文中所提供的技术资料等仅供参考, 对于客户的特殊要求、材料及驱动装置的选择, 请咨询万龙集团的销售人员或技术专家, 我公司拥有产品设计的变换或更换恕不通知的权利。

阀体&阀盖

碳钢(喷塑) ASTM A105 105(锻造阀体) ASTM A216 WCB(铸造阀体)
 304不锈钢 ASTM A276 304 (锻造阀体) ASTM A351 CF8(铸造阀体)
 316不锈钢 ASTM A276 316 (锻造阀体) ASTM A351 CF8M(铸造阀体)
 20号合金(Alloy 20) ASTM A351 Grade Cn7M
 蒙乃尔合金(Monel) ASTM A351 M35-1
 哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/C-276
 双相不锈钢 ASTM A995 CD4MCu

波纹管组件
 不锈钢 ASTM A276 304
 不锈钢 ASTM A276 304L
 不锈钢 ASTM A276 316
 不锈钢 ASTM A276 316L
 不锈钢 ASTM A182 F91(特殊要求, 请提前联系厂家)
 不锈钢 ASTM A494 Hastelloy C-22(特殊要求, 请提前联系厂家)
 不锈钢 ASTM A494 Hastelloy C-276(特殊要求, 请提前联系厂家)

闸板
 碳钢(喷塑) ASTM A105 105(锻造阀体) ASTM A216 WCB(铸造阀体)
 304不锈钢 ASTM A276 304 (锻造阀体) ASTM A351 CF8(铸造阀体)
 316不锈钢 ASTM A276 316 (锻造阀体) ASTM A351 CF8M(铸造阀体)
 20号合金(Alloy 20) ASTM A351 Grade Cn7M
 蒙乃尔合金(Monel) ASTM A351 M35-1
 哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/C-276
 双相不锈钢 ASTM A995 CD4MCu
螺栓、螺母
 碳钢 ASTM A193/A194 氮化调质发黑
 不锈钢 ASTM A276 304
 不锈钢(316) ASTM A276 316

阀杆

哈氏合金C (Hastelloy C) ASTM A494 Hastelloy C-22/ C-276
 碳钢 GB/T 12201 Cr13/2Cr13 氮化, 调质发黑
 不锈钢(304) ASTM A276 304
 不锈钢(316) ASTM A276 316
 不锈钢(316L) ASTM A276 316L
 不锈钢(410) ASTM A276 410
 不锈钢(420) ASTM A276 420
 20号合金(Alloy 20) ASTM A351 Grade Cn7M
 蒙乃尔合金(Monel) ASTM A351 M35-1

阀座
 硬密封 GB/T 699 20# +ST6
 硬密封 ASTM A276 304/316
 硬密封 ASTM A276 304/316+ST6
轴承压盖
 碳钢 ASTM A216 WCB
 不锈钢(304) ASTM A351 CF8
 不锈钢(316) ASTM A351 CF8M
手轮(可根据要求配各种执行器)
 碳钢 ASTM A216 WCB
 不锈钢(304) ASTM A351 CF8
 不锈钢(316) ASTM A351 CF8M
填料
 柔性石墨+304
 编织填料
垫片
 金属缠绕垫片

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本文中提供的技术资料等仅供参考, 对于客户的特殊要求、材料及驱动装置的选择, 请咨询万龙集团的销售人员或技术专家, 我公司拥有产品设计的变换或更换恕不通知的权利。

单波纹管闸阀 (Single Bellows Gate Valve)

对接焊连接 (Butt-Weld Connection)

设计制造: API 600

焊端尺寸: ASME B16.25

结构长度: ASME B16.10

试验—检验: API 598

氦质谱检漏: API 602

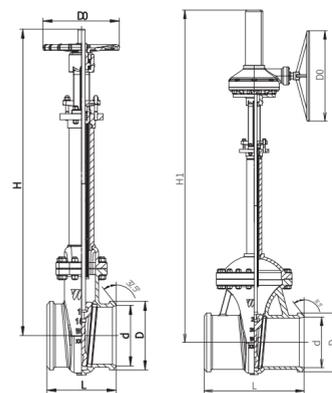
Design and manufacturing standard: API 600

Weld End Dimension: ASME B16.25

Structural length: ASME B16.10

Test - Inspection standard: API 598

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	d	D
1/2"	300	140	95	265-280	15.76	29.5
3/4"	300	152	95	265-280	20.96	36.3
1"	300	165	120	276-297	26.64	45
1 1/4"	300	178	120	308-322	35.08	54.4
1 1/2"	300	190	120	333-365	40.94	61.5
2"	300	216	185	360-408	52.48	75.1
2 1/2"	300	241	250	525-597	62.68	89.8
3"	300	282	250	529-615	77.92	108.3
4"	300	305	320	712-815	102.26	138.1
5"	300	381	320	962-1132	128.2	169.3
6"	300	403	320	962-1132	154.08	200.3
8"	300	419	400	1075-1294	202.74	254.1

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	d	D
10"	300	457	400	1389-1650	254.46	311.2
12"	300	502	400	1641-1950	303.18	365
14"	300	762	-	1812-2170	333.34	403.5
16"	300	838	-	2041-2450	381	457.2
18"	300	914	-	2315-2770	428.66	511.4
20"	300	991	-	2557-3059	477.42	566.4

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。
 H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

双波纹管闸阀 (Double Bellows Gate Valve)

设计制造/Design and manufacturing standard: API 600、GB/T 12234

Z系列对接焊连接/Z Series butt-welded connection: ASME B16.25、ASME B16.10

Z系列法兰连接/Z Series flanged connection: ASME B16.5、ASME B16.10

试验—检验/Test - Inspection standard: API 598、GB/T 26480

氦质谱检漏/Helium mass spectrometer leak detection: API 602

Z系列对接焊连接(Z Series butt-welded connection)

CL300						
NPS	L	D0	H	D	d	
1/2"	140	95	218	29.5	15.76	
3/4"	152	95	218	36.3	20.96	
1"	165	120	238	45	26.64	
1 1/4"	178	120	320	54.4	35.08	
1 1/2"	190	120	338	61.5	40.94	
2"	216	185	360	75.1	52.48	
2 1/2"	241	250	395	89.8	62.68	
3"	282	250	580	108.3	77.92	
4"	305	320	765	138.1	102.26	
6"	403	320	955	200.3	154.08	
8"	419	400	1250	254.1	202.74	
10"	457	400	1350	311.2	254.46	
12"	502	400	1495	365	303.18	
14"	762	-	1625	403.5	333.34	
16"	838	-	1950	457.2	381	
18"	914	-	2250	511.4	428.66	
20"	991	-	2390	566.4	477.42	

Z系法兰连接(Z Series flanged connection)

CL150							CL300						
NPS	L	D0	H	D	d		NPS	L	D0	H	D	d	
1/2"	108	95	218	89	35.1		1/2"	140	95	218	95	35.1	
3/4"	117	95	218	99	42.9		3/4"	152	95	218	117	42.9	
1"	127	120	238	108	50.8		1"	165	120	238	124	50.8	
1 1/4"	140	120	320	117	63.5		1 1/4"	178	120	320	133	63.5	
1 1/2"	165	120	338	127	73		1 1/2"	190	120	338	155	73	
2"	178	185	360	152	91.9		2"	216	185	360	165	91.9	
2 1/2"	190	250	395	178	104.6		2 1/2"	241	250	395	190	104.6	
3"	203	250	580	190	127		3"	282	250	580	210	127	
4"	229	320	765	229	157.2		4"	305	320	765	254	157.2	
6"	267	320	955	279	215.9		6"	403	320	955	318	215.9	
8"	292	400	1250	343	269.7		8"	419	400	1250	381	269.7	
10"	330	400	1350	406	323.8		10"	457	500	1350	444	323.8	
12"	356	400	1495	484	381		12"	502	600	1495	521	381	
14"	381	-	1625	533	412.8		14"	762	-	1625	584	412.8	
16"	460	-	1950	597	469.9		16"	838	-	1950	648	469.9	
18"	432	-	2250	635	533.4		18"	711	-	2250	711	533.4	
20"	457	-	2390	693	584.2		20"	991	-	2390	775	584.2	

如需了解阀门具体口径的详细资料, 请咨询万龙销售工程师。
 For detailed information about specific valve sizes, please contact our sales engineer.

波纹管闸阀 Bellows Gate Valve

国标 (GB) / 美标 (ASME) / 德标 (DIN)



波纹管闸阀 (Bellows Gate Valve)

一种通过楔形闸板垂直升降来控制管道流体通断的阀门。万龙波纹管闸阀在此基础上,采用波纹管密封设计,分为双波纹管管和单波纹管两种类型。

A valve that controls the opening or shutting off of pipeline flow by means of the vertical lifting of a wedge-shaped gate. Based on this design, the Wanlong Bellows Gate Valve incorporates a bellows sealing structure and is available in two types: double bellows and single bellows.



- **产品优点:** 多层密封, 零泄露
- **国标公称通径:** DN15~DN600
- **公称压力:** PN16~PN260
- **美标公称通径:** 1/2"~40"
- **公称压力:** 150LB~1000LB
- **使用温度:** -101°C~650°C
- **结构特色:** 采用双密封面的楔式密封结构。当一侧密封面受损时,另一侧密封面仍可独立实现有效密封。

- **Product Advantages:** Multi-layer sealing, zero leakage
- **DN:** DN15~DN600
- **PN:** PN16~PN260
- **NPS:** 1/2"~40"
- **Class:** 150LB~1000LB
- **Operating Temperature:** -101°C~650°C (-149.8°F ~ 1202°F)
- **Structural Feature:** Adopts a wedge-type sealing structure with dual sealing surfaces. When one sealing surface is damaged, the other can still independently maintain effective sealing.

单波纹管闸阀 (Single Bellows Gate Valve)

法兰连接(Flanged Connection)

设计制造: GB/T 12234

法兰尺寸: GB/T 9124

结构长度: GB 12221

试验—检验: GB/T 26480

氦质谱检漏: API 602

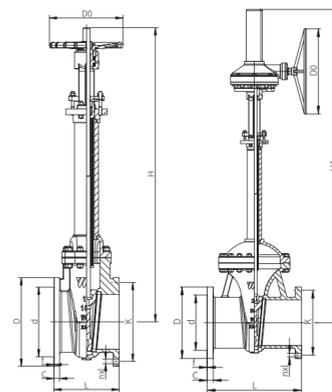
Design and manufacturing standard: GB/T 12234

Flange Dimensions standard: GB/T 9124

Structural length: GB 12221

Test - Inspection standard: GB/T 26480

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	D	K	n* <i>l</i>	d	f	C
15	16-40	140	130	265-280	95	65	4*14	45	2	16
20	16-40	152	130	265-280	105	75	4*14	58	2	18
25	16-40	165	130	276-297	115	85	4*14	68	2	18
32	16-40	178	160	308-322	140	100	4*18	78	2	18
40	16-40	190	170	333-365	150	110	4*18	88	2	18
50	16-40	216	190	360-408	165	125	4*18	102	2	20
65	16-40	241	250	525-597	185	145	8*18	122	2	22
80	16-40	283	250	529-615	200	160	8*18	138	2	24
100	16	305	320	712-815	220	180	8*18	158	2	20
	25-40	305	320	712-815	235	190	8*22	162	2	24
125	16	325	320	962-1132	250	210	8*18	188	2	22
	25-40	325	320	962-1132	270	220	8*26	188	2	26
150	16	403	350	962-1132	285	240	8*22	212	2	22
	25-40	403	350	962-1132	300	250	8*26	218	2	28
200	16	419	400	1075-1294	340	295	12*22	268	2	24
	25	419	400	1075-1294	360	310	12*26	278	2	30
	40	419	400	1075-1294	375	320	12*30	285	2	34

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	D	K	n* <i>l</i>	d	f	C
250	16	457	500	1370-1636	405	355	12*26	320	2	26
	25	457	500	1370-1636	425	370	12*30	335	2	32
	40	457	500	1370-1636	450	385	12*33	345	2	38
300	16	502	600	1641-1950	460	410	12*26	378	2	28
	25	502	600	1641-1950	485	430	16*30	395	2	34
	40	502	600	1641-1950	515	450	16*33	410	2	42
350	16	572	-	1812-2170	520	470	16*26	438	2	30
	25	572	-	1812-2170	555	490	16*33	450	2	38
	40	572	-	1812-2170	580	510	16*36	465	2	46
400	16	610	-	2041-2450	580	525	16*30	490	2	32
	25	610	-	2041-2450	620	550	16*36	505	2	40
	40	610	-	2041-2450	660	585	16*39	535	2	50
450	16	660	-	2315-2770	640	585	20*30	550	2	40
	25	660	-	2315-2770	670	600	20*36	555	2	46
	40	660	-	2315-2770	685	610	20*39	560	2	57
500	16	711	-	2557-3059	715	650	20*33	610	2	44
	25	711	-	2557-3059	730	660	20*36	615	2	48
	40	711	-	2557-3059	755	670	20*42	615	2	57
600	16	787	-	2000-2700	840	770	20*36	720	2	54
	25	787	-	2000-2700	845	770	20*39	720	2	58
	40	787	-	2000-2700	890	795	20*48	735	2	72

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。
H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

单波纹管闸阀 (Single Bellows Gate Valve)

法兰连接(Flanged Connection)

设计制造: API 600

法兰尺寸: ASME B16.5

结构长度: ASME B16.10

试验—检验: API 598

氦质谱检漏: API 602

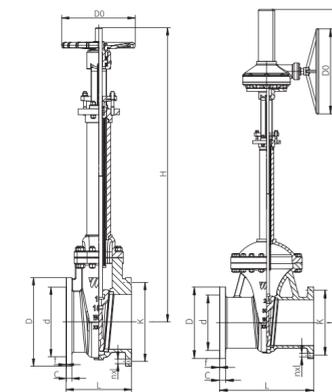
Design and manufacturing standard: API 600

Flange Dimensions standard: ASME B16.5

Structural length: ASME B16.10

Test - Inspection standard: API 598

Helium mass spectrometer leak detection: API 602



NPS	CLASS	L	D0	H	D	K	n* <i>l</i>	d	f	C
1/2"	150	108	95	265-280	89	60.5	4*16	35.1	1.5	9.7
	300	140	95	265-280	95	66.5	4*16	35.1	1.5	12.7
3/4"	150	117	95	276-297	99	69.8	4*16	42.9	1.5	11.2
	300	152	95	308-322	117	82.6	4*19	42.9	1.5	14.2
1"	150	127	120	333-365	108	79.2	4*16	50.8	1.5	12.7
	300	165	120	360-408	124	88.9	4*19	50.8	1.5	15.7
1 1/4"	150	140	120	525-597	117	88.9	4*16	63.5	1.5	14.2
	300	178	120	529-615	133	98.6	4*19	63.5	1.5	17.5
1 1/2"	150	165	120	712-815	127	98.6	4*16	73	1.5	15.9
	300	190	120	712-815	155	114.3	4*22.5	73	1.5	19
2"	150	178	185	360-408	152	120.6	4*19	91.9	1.5	17.5
	300	216	185	360-408	165	127	8*19	91.9	1.5	20.6
2 1/2"	150	190	250	525-597	178	139.7	4*19	104.6	1.5	20.6
	300	241	250	525-597	190	149.4	8*22.5	104.6	1.5	23.9
3"	150	203	250	529-615	190	152.4	4*19	127	1.5	22.4
	300	282	250	529-615	210	168.1	8*22.5	127	1.5	26.9
4"	150	229	320	712-815	229	190.5	8*19	157.2	1.5	22.4
	300	305	320	712-815	254	200.2	8*22.5	157.2	1.5	30.2
5"	150	254	320	962-1132	254	215.9	8*22.5	185.7	1.5	22.4
	300	381	320	962-1132	279	235	8*22.5	185.7	1.5	33.2
6"	150	267	320	962-1132	279	241.3	8*22.5	215.9	1.5	23.9
	300	403	320	962-1132	318	269.7	12*22.5	215.9	1.5	35.1
8"	150	292	400	1158-1377	343	298.4	8*22.5	269.7	1.5	26.9
	300	419	400	1158-1377	381	330.2	12*26	269.7	1.5	39.6

口径10"以上, 建议安装执行器。Above NPS 10": install actuator.

NPS	CLASS	L	D0	H	D	K	n* <i>l</i>	d	f	C
10"	150	330	400	1389-1650	406	362	12*26	323.8	1.5	28.4
	300	457	500	1389-1650	444	387.4	16*30	323.8	1.5	46
12"	150	356	400	1664-1981	484	431.8	12*26	381	1.5	30.2
	300	502	600	1664-1981	521	450.8	16*33	381	1.5	49.3
14"	150	381	-	1812-2170	533	476.2	12*30	412.8	1.5	33.3
	300	762	-	1812-2170	584	514.4	20*33	412.8	1.5	52.3
16"	150	460	-	2041-2450	597	539.8	16*30	469.9	1.5	35.1
	300	648	-	2041-2450	648	571.5	20*36	469.9	1.5	55.6
18"	150	432	-	2315-2770	635	577.8	16*33	533.4	1.5	38.1
	300	711	-	2315-2770	711	628.6	24*36	533.4	1.5	58.7
20"	150	457	-	2557-3059	693	635	20*33	584.2	1.5	41.1
	300	991	-	2557-3059	775	685.8	24*36	584.2	1.5	62
24"	150	508	-	2000-2700	813	749.3	36*20	692.2	1.5	46
	300	1143	-	2000-2700	914	812.8	24*42	692.2	1.5	68.3

H为手轮高度, H1为安装执行器的高度, H1高度, 请咨询万龙销售工程师。
H (handwheel height) and H1 (actuator installation height). Confirm H1 with a Wanlong sales engineer.

单波纹管闸阀 (Single Bellows Gate Valve)

对接焊连接 (Butt-Weld Connection)

设计制造: GB/T 12234

焊端尺寸: GB/T 12224

结构长度: GB/T 12221

试验—检验: GB/T 26480

氦质谱检漏: API 602

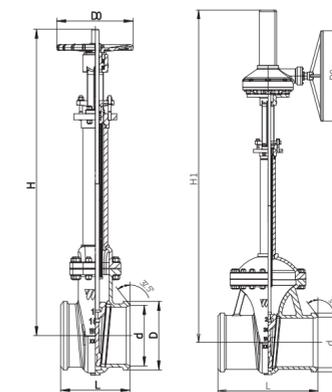
Design and manufacturing standard: GB/T 12234

Weld End Dimension: GB/T 12224

Structural length: GB/T 12221

Test - Inspection standard: GB/T 26480

Helium mass spectrometer leak detection: API 602



DN	PN	L	D0	H	d	D
15	16-40	140	130	265-280	17	35
20	16-40	152	130	265-280	22.3	41
25	16-40	165	130	276-297	28.5	50
32	16-40	178	160	308-322	37.2	56
40	16-40	190	170	333-365	43.1	62
50	16-40	216	190	360-408	54.5	76
65	16-40	241	250	525-597	67.2	92
80	16-40	283	250	529-615	82.5	105
100	16-40	305	320	712-815	107.1	132
125	16-40	381	320	962-1132	133.3	157
150	16-40	403	350	962-1132	159.3	184
200	16-40	419	400	1075-1294	206.5	238

口径250以上, 建议安装执行器。Above DN 250: install actuator.

DN	PN	L	D0	H	d	D
250	16-40	457	500	1370-1636	260	296
300	16-40	502	600	1641-1950	309	348
350	16-40	762	-	1812-2170	360	403
400	16-40	838	-	2041-2450	410	446
450	16-40					