

重锤式液控缓闭止回蝶阀

产品特点 Product features

- 采用国外先进国家普遍采用的重锤蓄能结构，利用地心引力提供关阀力矩，液压系统大大简化，更加安全可靠。
- 靠自身重锤蓄能，无外来能源时可自动快速关阀。
- 自动保压不掉锤、蝶板不抖动、密封可靠、流阻系数小。
- 采用 PLC 智能控制系统，可实现文本、触摸屏等多种人性化操作界面。
- 可以实现远程或现场控制，达到泵阀联动。
- 能按预定程序实现与其他管理设备联动操作。
- 具有可调的快关、慢关两个阶段，特别是当突然停电或事故停泵时，永存的重锤势能，能自动按预先调定的快慢关两个阶段关闭，防止水锤危害，保护水泵及管网系统安全。
- 装在水泵出口，一阀代两阀（代替闸阀和止回阀）起到截断、止回的作用。



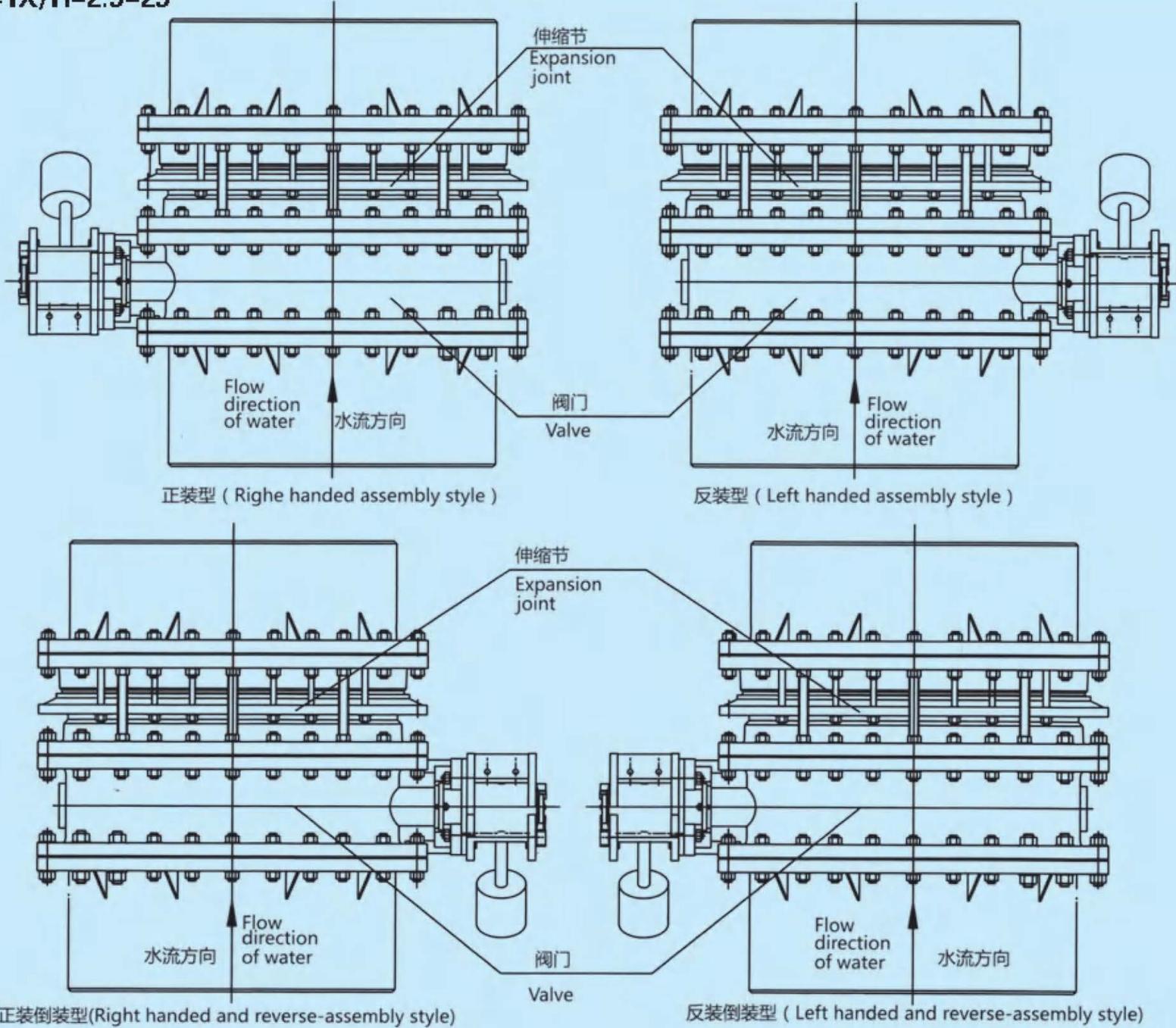
- It adopts the heavy hammer energy-stored structures widely introduced and used in foreign developed countries, making use of the gravity to provide closing valve torque with greatly simplified hydraulic system, more secure and reliable.
- It relies on its own reservoir of hammer, when no external energy, it can automatically close the valve quickly.
- It can automatically keep the pressure without dropping hammer and the keep the butterfly plate free from dither, with reliable sealing and small flow resisting coefficient.
- It adopts the PLC intelligent control system, which can realize humanized operation interface such as text, touch screen.
- It can realize remote or local control, reaching pump valve linkage.
- It's capable to link operation with other management devices according to the predetermined program.
- It has adjustable quick-closing and slowly-closing in two stages, especially when all of a sudden power off or stop pumping because of accidents, potential energy of persistent heavy hammer, can be automatically closed in accordance with the set quick-closing and slowly-closing in two stages, in order to prevent the hazard of water hammer, and protect the security on pump and piping system.
- At water pump export, one valve can be used as two valves (instead of gate valve and check valve) be truncated, check reuse. It can be installed at the gate of water pump, which is used as one valve with dual function, functioned for truncating and checking.

结构特征 .Structure features

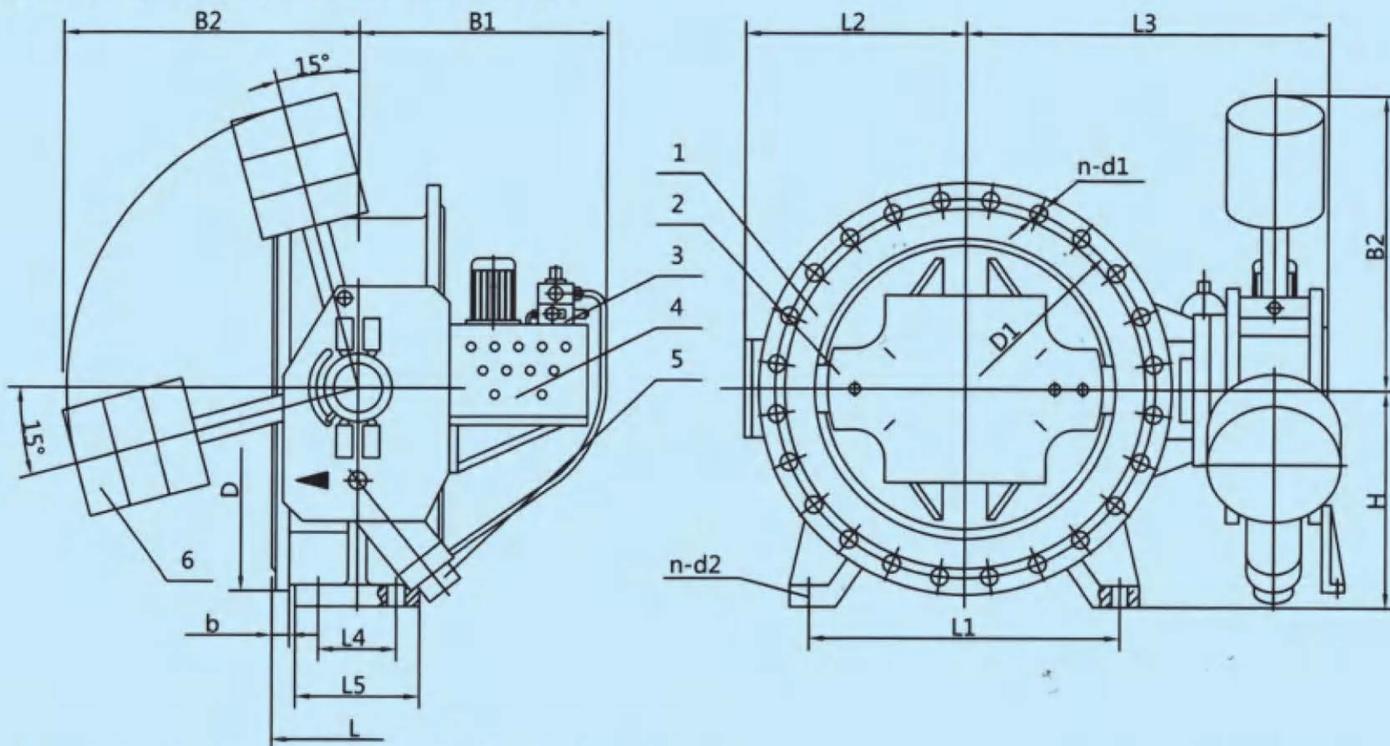
- 主要由阀门、传动机构、液压站、电控箱等四部分组成。
- 阀门主要由阀体、蝶板、阀杆、密封组件等零件组成。阀杆均可采用长、短轴结构，阀体均采用卧式结构。
- 传动机构主要由液压缸、摆臂、支撑侧板、重锤等连接、传动件组成，是液压动力开、关阀门的主要执行机构。
- 液压站包括油泵机组、手动泵、蓄能器、电磁阀、溢流阀、流量控制阀、截止阀、液压集成块、油箱等零部件。
- 传动液压缸上设有快关时间调节阀、慢关时间调节阀和快、慢角度调节阀。
- 手动泵用于系统调试和特殊工况下的阀门启闭。
- 液压站、电控箱与阀门可以整体安装，也可以分开安装。一般为分开式安装。
- 流量控制阀用于开阀时间调节。
- It consists of four main components including main valve, transmission mechanism, hydraulic pressure station, electric cabinet, etc.
- The valve is mainly composed of valve body, butterfly plate, valve stem, sealing components. The stem can be structured by long or short shaft, and valve body can adopt horizontal structure.
- The transmission mechanism is mainly connected with the hydraulic cylinder, swinging arm, supporting side panel, and heavy hammer, and made of transmission components, which is the main actuator of hydraulic valve's opening and closing.
- Hydraulic pressure station includes following components such as oil pump units, manual pump, accumulator, solenoid valve and relief valve, flow control valve, cut-off valve, hydraulic manifold blocks, and fuel tank.
- The power hydraulic cylinder is equipped with quick-closing and quick-closing time adjustable valve and quick-closing and quick-closing angle adjustable valve.
- The manual pump is used to debug the system, even to open and close the valve under special conditions.
- The hydraulic pressure station, electric control box and valve can be integral installation, and can also be installed separately. –Generally speaking, it is for separate installation.
- The flow control valves is used to adjust valve's opening time.

重锤式液控缓闭止回蝶阀

KD741X/H-2.5-25



主要外形尺寸 The main dimension (mm)



- 1、阀体 2、蝶板 3、液压系统 4、电控箱 5、摆动油缸 6、重锤
1, the valve body 2, the butterfly plate 3, the hydraulic system 4, electric cabinet 5, swinging oil cylinders 6, heavy hammer

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主要外形尺寸 (mm) Main External and Connection Dimension PN2.5(0.25MPa)

公称通径 Nominal Diameter	D	D1	b		L	L1	L2	L3	L4	L5	H	B1	B2	n-d1	n-d2
			铸铁 Cast iron	碳钢 Carbon Steel											
300	440	395	24	22	178	315	285	575	120	170	310	480	600	12-23	4-22
350	490	445	26	22	190	340	317	605	120	170	320	480	600	12-23	4-22
400	540	495	28	22	216	410	373	640	150	200	340	480	600	16-23	4-22
500	645	600	30	24	229	450	400	735	160	210	370	500	600	20-23	4-26
600	755	705	30	24	267	565	459	800	200	250	400	500	600	20-26	4-26
700	860	810	32	24	292	640	520	856	220	270	460	500	600	24-26	4-26
800	975	920	34	24	318	740	578	990	250	300	540	550	700	24-30	4-26
900	1075	1020	36	24	330	820	655	1039	260	310	580	550	700	24-30	4-30
1000	1175	1120	36	24	410	900	718	1089	340	390	635	550	700	28-30	4-30
1200	1375	1320	30	26	470	1070	845	1219	400	450	695	600	850	32-30	4-30
1400	1575	1520	30	28	530	1250	975	1329	450	510	810	600	850	36-30	4-33
1600	1790	1730	32	32	600	1250	1100	1479	510	570	920	600	1000	40-30	4-33
1800	1990	1930	34	34	670	1330	1240	1650	580	640	1040	600	1000	44-30	4-33
2000	2190	2130	34	34	760	1370	1370	2180	670	670	1150	600	1000	48-30	4-36
2200	2405	2340	36	38	800	1600	1465	2685	700	760	1240	850	1200	52-33	4-39
2400	2605	2540	38	38	850	2040	1565	2785	760	820	1340	850	1200	56-33	4-39
2600	2805	2740	40	42	900	2150	1665	2835	810	870	1540	900	1300	60-33	4-39
2800	3030	2960	42	44	950	2350	1765	3135	860	920	1640	900	1300	64-36	4-39
3000	3230	3160	42	46	1000	2550	1865	3135	920	980	1740	900	1300	68-36	4-42
3200	3430	3360	44	48	1100	2650	1965	3185	980	1050	1840	900	1300	72-36	4-42
3400	3630	3560	46	50	1200	2750	2065	3235	1040	1100	1940	1000	1450	76-36	4-42
3800	3840	3770	48	52	1200	2900	2170	3420	1100	1180	2050	1000	1450	80-36	4-42
4000	4245	3970	50	54	1300	3100	2285	3580	1250	1350	2160	1000	1450	84-39	4-42
4200	4655	4180	52	58	1300	3300	2390	3700	1340	1440	2280	1150	1650	88-39	4-42
4600	5060	4400	54	60	1300	3500	2500	3820	1430	1530	2390	1150	1650	92-43	4-42

重锤式液控缓闭止回蝶阀

主要外形尺寸 (mm) Main External and Connection Dimension PN6(0.6MPa)

公称通径 Nominal Diameter	D	D1	b		L	L1	L2	L3	L4	L5	H	B1	B2	n-d1	n-d2
			铸铁 Cast iron	碳钢 Carbon Steel											
300	440	395	24	24	178	320	270	670	120	170	295	850	600	12-23	4-22
350	490	445	26	24	190	320	295	695	120	170	295	850	600	12-23	4-22
400	540	495	28	24	216	340	320	720	150	200	320	850	600	16-23	4-30
500	645	600	30	26	229	480	370	770	160	210	375	850	600	20-23	4-30
600	755	705	30	26	267	510	425	825	200	250	425	860	600	20-26	4-30
700	860	810	32	26	292	550	480	970	220	270	480	860	600	24-26	4-30
800	975	920	34	26	318	590	535	1025	250	300	535	860	700	24-31	4-30
900	1075	1020	36	26	330	700	585	1075	260	310	585	870	700	24-31	4-34
1000	1175	1120	36	26	410	740	645	1195	340	390	635	870	700	28-31	4-34
1200	1405	1340	40	28	470	780	760	1310	400	450	750	920	850	32-34	4-34
1400	1630	1560	44	32	530	830	875	1425	450	510	865	910	850	36-37	4-34
1600	1830	1760	48	34	600	950	975	1560	510	570	975	1010	1000	40-37	4-34
1800	2045	1970	50	36	670	1370	1080	1700	580	640	1080	1010	1000	44-40	4-34
2000	2265	2180	54	38	760	1370	1190	1810	670	670	1190	1100	1000	48-43	4-34
2200	2475	2390	60	40	800	1600	1310	1915	700	760	1290	1100	1200	52-43	4-42
2400	2685	2600	62	42	850	1730	1430	2020	760	820	1400	1100	1200	56-43	4-42
2600	2905	2810	64	44	900	1880	1530	2150	810	870	1520	1100	1300	60-49	4-42
2800	3115	3020	68	46	950	2960	1635	2255	860	920	1625	1100	1300	64-49	4-42
3000	3315	3220	70	48	1000	3180	1735	2355	920	980	1725	1200	1300	68-49	4-42
3200	3525	3430	76	50	1100	3380	1840	2460	980	1050	1830	1200	1300	72-49	4-42
3400	3735	3640	80	52	1200	3580	1940	2560	1040	1100	1935	1200	1450	76-49	4-42
3600	3970	3860	84	54	1200	3780	2085	2685	1100	1180	2055	1200	1450	80-56	4-42
4000	4380	4270	/	58	1300	4280	2295	2990	1250	1350	2260	1350	1500	88-56	4-42
4200	4580	4470	/	60	1300	4490	2390	3090	1340	1440	2360	1350	1700	92-56	4-42
4600	5170	5060	/	65	1300	4990	2685	3385	1430	1530	2655	1350	2000	92-62	4-42

重锤式液控缓闭止回蝶阀

主要外形尺寸 (mm) Main External and Connection Dimension PN10(1.0MPa)

公称通径 Nominal Diameter	D	D1	b		L	L1	L2	L3	L4	L5	H	B1	B2	n-d1	n-d2
			铸铁 Cast iron	碳钢 Carbon Steel											
300	445	400	28	26	178	320	280	590	120	170	300	850	600	12-23	4-30
350	505	460	30	26	190	320	305	640	120	170	300	850	600	16-23	4-30
400	565	515	32	26	216	340	365	730	150	200	300	850	600	16-28	4-30
500	670	620	34	28	229	400	440	785	160	210	350	850	700	20-28	4-30
600	780	725	36	34	267	430	525	840	200	250	405	860	700	20-31	4-30
700	895	840	40	34	292	570	555	985	220	270	460	860	700	24-31	4-30
800	1015	950	44	36	318	610	605	1045	250	300	520	860	850	24-34	4-30
900	1115	1050	46	38	330	700	670	1095	260	310	570	860	850	28-34	4-34
1000	1230	1160	50	38	410	740	755	1225	340	390	640	860	850	28-37	4-34
1200	1455	1380	56	44	470	790	855	1335	400	450	750	860	850	32-40	4-34
1400	1675	1590	62	48	530	840	1010	1445	450	510	865	870	1000	36-43	4-34
1600	1915	1820	68	52	600	960	1120	1600	510	570	980	870	1000	40-49	4-34
1800	2115	2020	70	56	670	1370	1210	1735	580	640	1110	870	1200	44-49	4-34
2000	2325	2230	74	58	760	1370	1380	1840	670	670	1185	910	1200	48-49	4-34
2200	2550	2440	/	60	800	1600	1480	1955	700	760	1300	910	1300	52-56	4-42
2400	2760	2650	/	62	850	1740	1590	2060	760	820	1400	910	1300	56-56	4-42
2600	2960	2850	/	66	900	1880	1670	2180	810	870	1530	950	1300	60-56	4-42
2800	3180	3070	/	70	950	2960	1890	2290	860	920	1660	950	1450	64-56	4-42
3000	3405	3290	/	75	1000	3180	2000	2400	920	980	1770	950	1450	68-61	4-42
3200	3605	3490	/	80	1100	3380	2200	2500	980	1050	1870	1000	1450	72-61	4-42
3400	3805	3690	/	82	1200	3580	2300	2600	1040	1100	1970	1000	1500	76-61	4-42
3600	4000	3890	/	84	1200	3780	2400	2700	1100	1180	2070	1060	1700	80-61	4-42
4000	4505	4390	/	84	1300	4280	2755	3050	1250	1350	2320	1060	2000	82-67	4-42
4200	4715	4600	/	88	1300	4490	3055	3155	1340	1440	2425	1120	2120	88-67	4-42
4600	5215	5100	/	90	1300	4990	4000	3405	1430	1530	2675	1120	2200	92-67	4-42

重锤式液控缓闭止回蝶阀

主要外形尺寸 (mm) Main External and Connection Dimension PN16(1.6MPa)

公称通径 Nominal Diameter	D	D1	b		L	L1	L2	L3	L4	L5	H	B1	B2	n-d1	n-d2
			铸铁 Cast iron	碳钢 Carbon Steel											
300	460	410	32	28	178	390	300	680	120	170	320	665	600	12-28	4-30
350	520	470	36	30	190	400	310	710	120	170	330	670	600	16-28	4-30
400	580	525	38	32	216	455	390	740	150	200	340	680	600	16-31	4-30
500	715	650	42	36	229	580	450	805	160	210	405	790	600	20-34	4-30
600	840	770	48	38	267	690	520	870	200	250	470	790	850	20-37	4-30
700	910	840	54	38	292	750	595	995	220	270	505	790	850	24-37	4-30
800	1025	950	58	38	318	860	650	1050	250	300	560	800	850	24-40	4-30
900	1125	1050	62	40	330	960	720	1100	260	310	610	800	850	28-40	4-34
1000	1255	1170	66	42	410	1080	780	1235	340	390	675	800	1000	32-49	4-34
1200	1485	1390	/	48	470	1280	900	1350	400	450	790	940	1000	32-49	4-34
1400	1685	1590	/	52	530	1480	1020	1450	450	510	890	940	1200	36-49	4-34
1600	1930	1820	/	58	600	1710	1145	1610	510	570	1025	1010	1300	40-56	4-34
1800	2130	2020	/	62	670	1910	1265	1745	580	640	1125	1030	1450	44-56	4-34
2000	2340	2230	/	66	760	2120	1370	1850	670	670	1230	1100	1450	48-62	4-34
2200	2550	2440	/	70	800	2330	1470	1955	700	760	1335	1100	1500	52-62	4-42
2400	2780	2650	/	74	850	2540	1690	2070	760	820	1450	1100	1700	56-62	4-42

主要外形尺寸 (mm) Main External and Connection Dimension PN25(2.5MPa)

公称通径 Nominal Diameter	D	D1	b		L	L1	L2	L3	L4	L5	H	B1	B2	n-d1	n-d2
			铸铁 Cast iron	碳钢 Carbon Steel											
300	485	430	40	34	178	420	320	720	120	170	320	744	600	16-31	4-30
350	555	490	44	38	190	420	320	720	120	170	320	750	600	16-34	4-30
400	620	550	48	40	216	480	410	760	150	200	360	770	600	16-37	4-30
500	730	660	52	44	229	590	465	815	160	210	415	790	850	20-37	4-30
600	845	770	56	46	267	690	520	870	200	250	470	790	850	20-40	4-30
700	960	875	/	46	292	785	620	1020	220	270	530	790	1000	24-43	4-36
800	1085	990	/	50	318	900	680	1080	250	300	590	790	1000	24-49	4-36
900	1185	1090	/	54	330	1000	750	1130	260	310	640	790	1300	28-49	4-36
1000	1320	1210	/	58	410	1120	820	1270	340	390	710	790	1300	28-56	4-36
1200	1530	1420	/	62	470	1310	925	1375	400	450	815	1020	1450	32-56	4-36
1400	1755	1640	/	66	530	1530	1050	1485	450	510	925	1020	1700	36-60	4-36
1600	1975	1860	/	70	600	1750	1160	1630	510	570	1045	1020	1700	40-62	4-36
1800	2195	2300	/	78	670	1960	1290	1775	580	640	1155	1020	2000	44-70	4-36
2000	2425	2300	/	78	760	2190	1410	1890	670	670	1270	1100	2200	48-70	4-42

注：1. 表中阀门结构长度按照 GB/T12221-2005。

2. 除以上标准规格外，可根据用户的实际需要，本公司可承接非标规格阀门的设计制造。

Note: 1. In the table above, valve structure length is based on GB/T12221-2005.

2. In addition to the standards listed above, non-standard valves can be designed according to user's specific requirements.