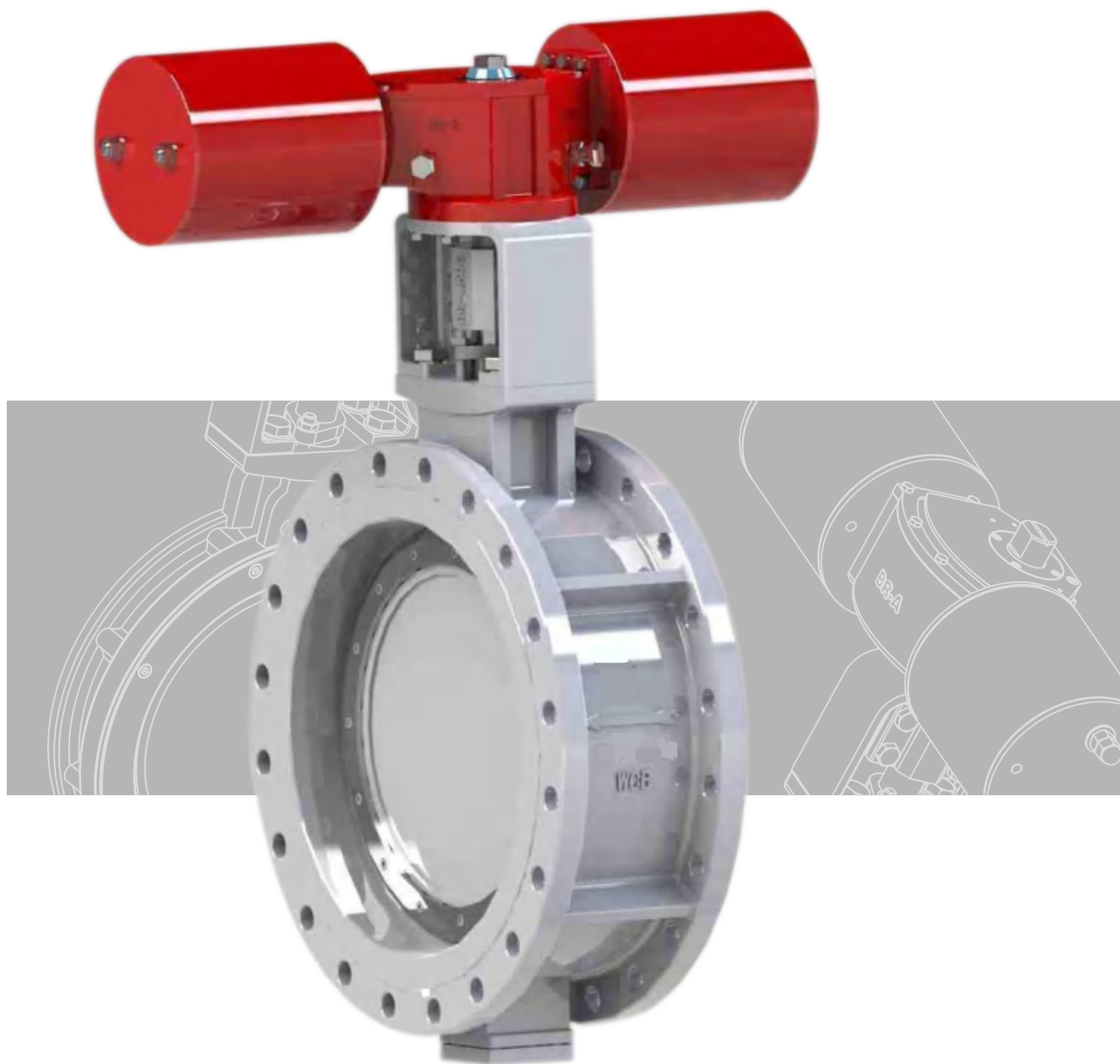




Butterfly Control Valve

Control Valve(Zhejiang) Co.,Ltd 's Butterfly Valve product line based on its three decades of experience in control valve manufacturing and design. Each smart design for every kind of service, including high performance and triple eccentric ensure Zero leakage, applicable to serve services cut off and modulating.

Manufacture Range

Size: 2"--120"
DN50--DN3000
Pressure Rating: ANSI CLASS150--2500
PN0.6--PN6.4MPa
Temperature: -196--1100 ℃

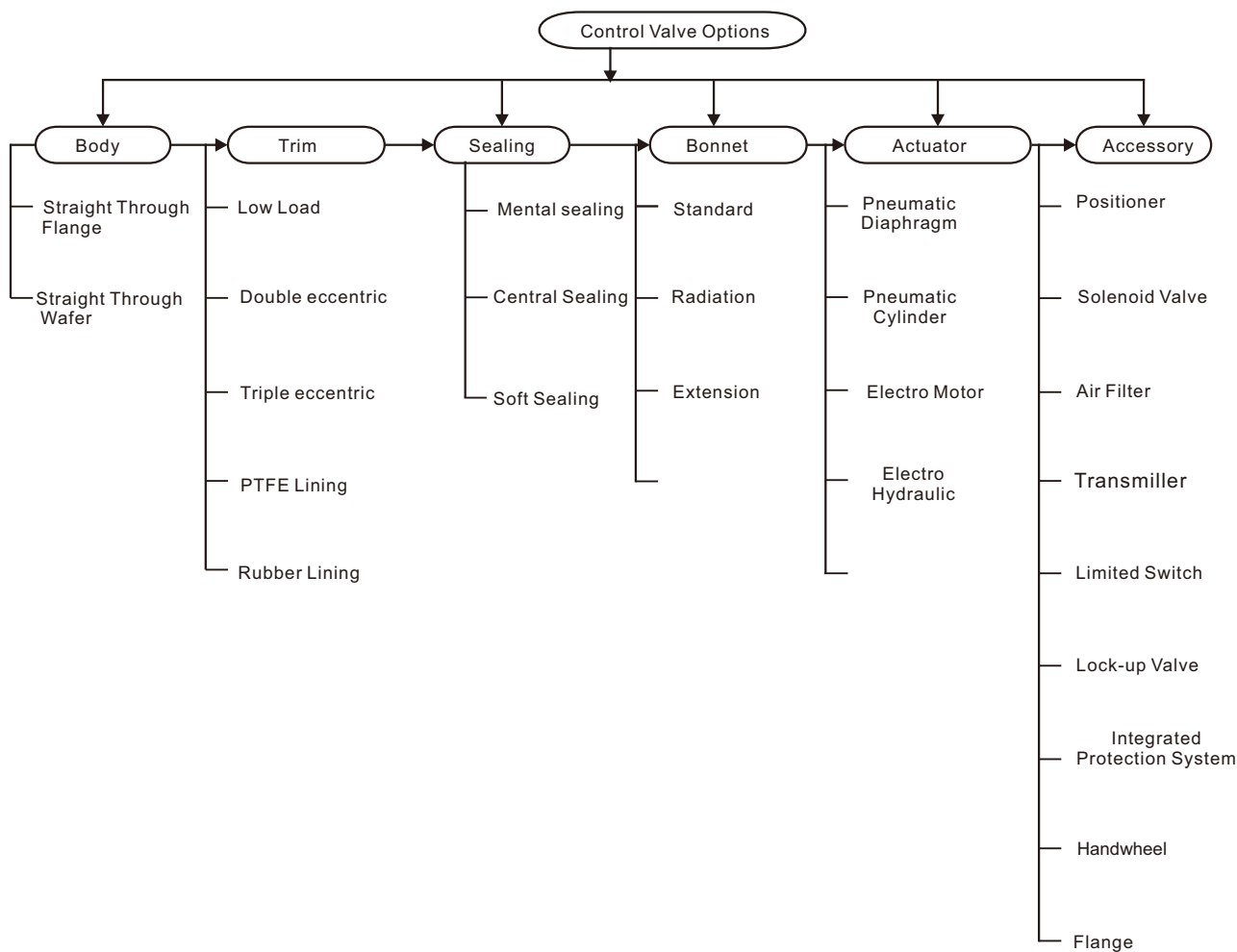
(Detail available manufacture range see product datasheet)

Butterfly Control Valve Trim Option

GYR-71700 High performance soft seal
GYR-71800 Triple eccentric metal seal
GYR-71600 low load butterfly valve
GYR-71500X Rubber Lining
GYR-71500C PTFE Lining

Contents

- Valve Options
- Valve Body Structure
- Packing structure
- Valve Trim
- GYR-71700
- GYR-71800
- GYR-71600
- GYR-71500X
- GYR-71500C
- GYR-71030
- Flange Connection
- Actuator
- Part - Number Instruction



Note:

Above Options for reference, Please Select Valve According to your application services or consult our engineer.

Please see detail data in catalogue, for accessories not listed in the catalogue, like motor actuator, electro hydraulic actuator, please consult our engineer for detail information.

This document not listed allowable differential pressure or CV value related opening position, please consult our engineer or calculated on Control Valve(Zhejiang) Co.,Ltd Sizing Software.

◆ Valve Body

Straight through (Max Dn3000)

Length Standard according to

IEC60534-3-1-2001

GB/T 12221-2005 API609

- ◆ Straigh through, Minimize flowing resistance.
(Flow Capacity of each type please refer to detail CV value)

- ◆ VEROoffer below connection end

Flange Welding

Flange Standard: JB/T79.1-94~ JB/T79.4-94
HG20618-97 HG20596-97
ANSI B16.5

Wafer Standard: JB/T79.1-97-- JB/T79.4-94
HG20616-97
ANSI B16.5
ANSI B16.47

- ◆ Valve body and bonnet bearing strength design standard
ASMEB16.34 GB/T9092-1999

- ◆ Flow direction marked on Valve body, Choose different trim to realize flow to open or close requirements.

- ◆ Casting or forged by different material can meet requirement up to

Pressure: Class600 / 6.4MPA

Temperature: -196℃~+538℃

(Low Load butterfly Max. temperature +1100)

Parts	Material
Body	ASTMA216 WCB/WCC ASTM A217 WC6/WC9 ASTM A105
	ASTMA351 CF8/CF3/CF8M/CF3M

Note: Consult Control Valve(Zhejiang) Co.,Ltd engineer for special Alloy not listed above

Figure 1



Figure 2



Valve Packing

- ◆ Control Valve(Zhejiang) Co.,Ltd offer three packing structure for sliding stem control valve
 - 1.Control Valve(Zhejiang) Co.,Ltd patented Self-Seal packing as standard packing structure(Figure 1)
 2. Sulfur free graphite for high temperature resistance application(Figure 2)
- ◆ Control Valve(Zhejiang) Co.,Ltd patented seal cavity use ASTM A351 CF8M material, eliminate leakage possibility from corrosive flow media contact.
- ◆ Self-Seal packing is VERVO patented design, 100,000 times experiments full stroke without leakage or friction increase. Such structure ensure accuracy control and stability.
- ◆ Sulfur free Graphite V-Ring packing composed by different taper compensational Graphite V-ring to ensure high temperature resistance and leakage free.
- ◆ Standard Packing:
Pressure up to: Class 600/6.4 MPA
Temperature: -196℃~+250℃
- ◆ Graphite Packing:
Pressure up to: Class2500 42.0MPA
Temperature: -196℃~+1100℃

◆ Packing Material

Parts	Material
Standard	PTFE/R.TFE/PPL
Graphite	Sulfur free Graphite

Figure 1



Figure 2



Figure 3



Body Size 2"~48" DN50~DN1200

Pressure Range: ANSI 150~300# PN1.0~PN4.0Mpa

Figure 1



◆ R-71700 series high performance butterfly valve feature double eccentric design which the positioning of the valve shaft/disk connections cause the disk to take a slightly eccentric path on opening. This allows the disk to be swung out of contact with the seal as soon as it is opened. Thereby reducing friction and wear. Combine with the compensational seat design to prolong lifecycle with stable sealing performance. Good Shutoff and corrosion protection. Require minimum space for installation.

◆ OPTIONS

Trim: Compensational Seat
Double Eccentric structure
Body: Straight
Bonnet: Standard
Temperature Range: -45°C~250°C
Plug sealing: Standard
Graphite
Leakage : CLASS VI
Flow characteristic : Approximate Equal
Pipe Line Connection : Flange Wafer
Range ability: 30 : 1

Body	Material
Body	ASTM A216 WCB/WCC ASTM A351 CF8/CF3/CF8M/CF3M
Disc	ASTM A216 WCB/WCC ASTM A351 CF8/CF3/CF8M/CF3M
Seat	R.TFE PTFE
Plug	ASTM A276 420 ASTM A276 F304/F316/F316L
Ring	ASTM A276 410 ASTM A182 F304/F316/F316L

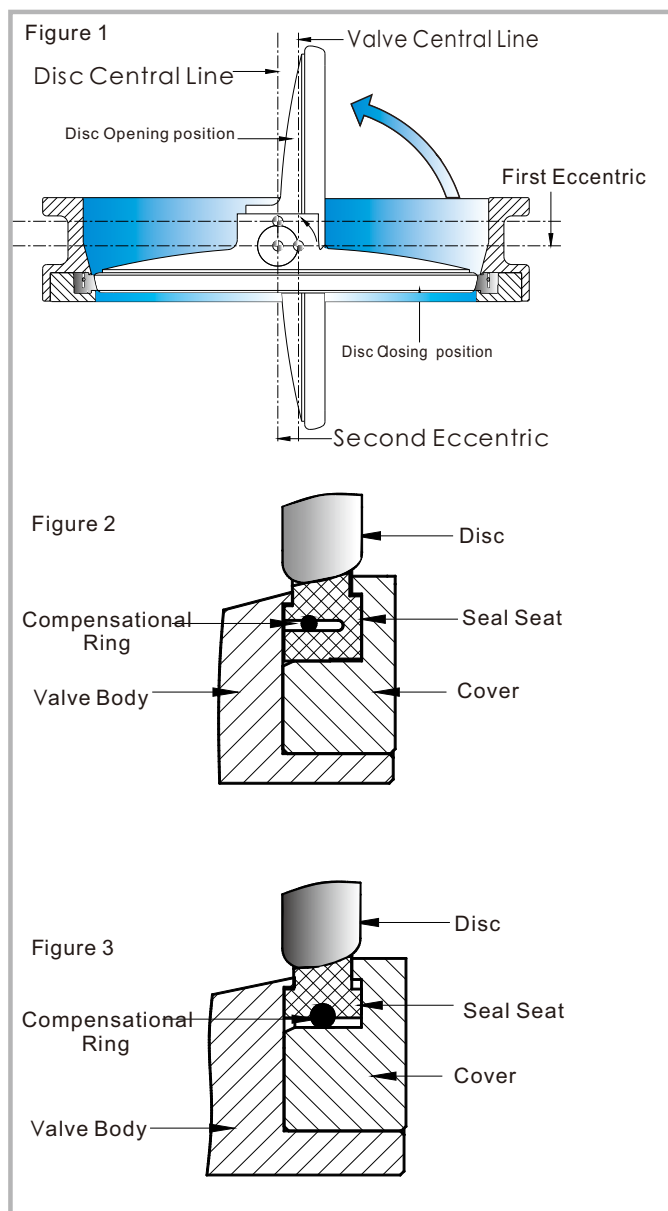
Note: Consult Control Valve(Zhejiang) Co.,ltd Engineer for special Alloy not listed above

◆ Connection

Flange JB/T 79.194~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47
Wafer JB/T 79.1-94~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47

◆ Actuator

- Pneumatic Diaphragm
- Pneumatic Diaphragm
- Electric Actuator
- Electro-hydraulic



◆ Eccentric disc produce a cam-like action as the starting from valve seat point, valve disc can be open with smaller torque. The cam-like action of the valve reducing wear of the valve seat, minimize the deformation of the valve seat. When the valve is open, the valve disc does not contact with the valve seat, and therefore extend the life of the seat, the operating torque is small. When the valve is closed, effectively pushing the valve disc touching the seat. Internal compensation ring can effectively compensate for wear of the sealing seat, the switch housing having a resilient sealing process, which reduces the friction, improving the sensitivity, so that the entire valve has excellent cutting performance and conditioning performance.

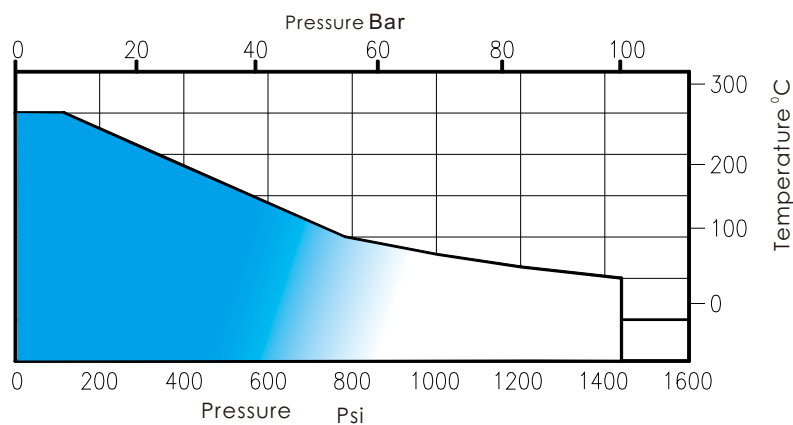
◆ Valve Seat Design
GYR71700 Provide
Two optional Seat

◆ Seat using the open U-shaped groove structure. By medium pressure to achieve self-sealing, built-in compensation spring, so that the sealing mechanism to achieve true dynamic sealing through medium pressure system.
Seat leakage below rated $CV \times 10^{-6}\%$.

◆ Valve seat adopt with O-shaped groove structure. When the valve disc is not completely closed, the valve seat has a certain radial flexibility, thereby reducing the wear of the valve seat, decrease the torque. When the valve closing, the valve disc sealing surface provides pre-load to ensure seal.

Leakage Less than rated $CV \times 10^{-6}\%$

◆ PTFE Seat Pressure / Temperature

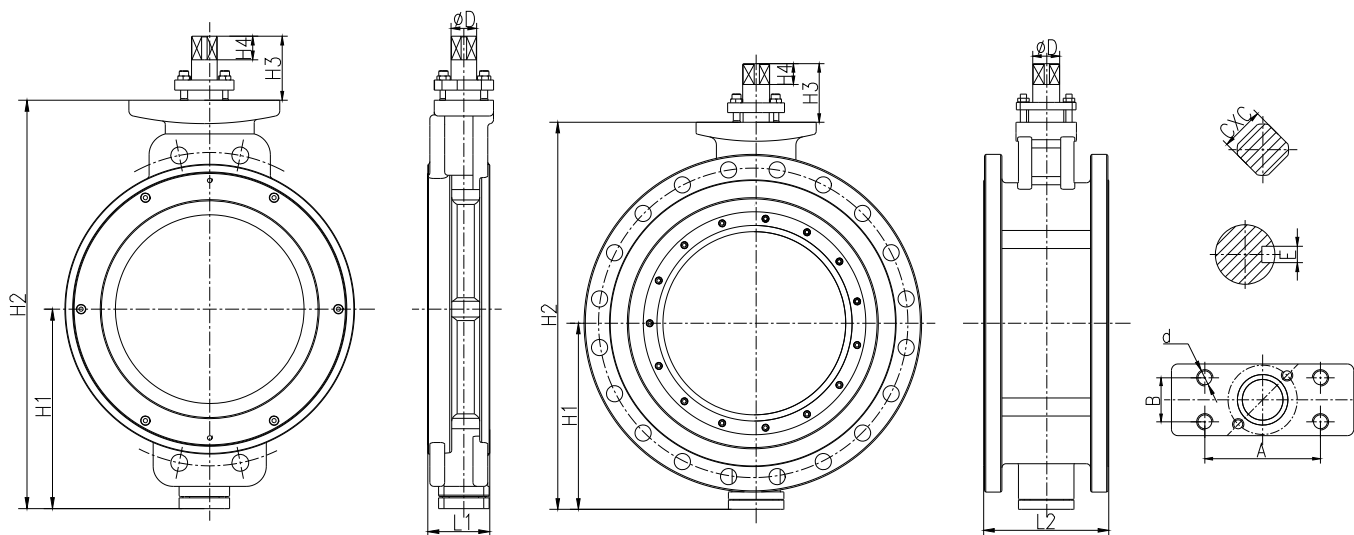


Rated CV Value and stoke

Body Size		Rated CV	Body Size		Rated CV
inch	mm	90°	inch	mm	90°
3"	80	179	18"	450	11314
4"	100	429	20"	500	14870
5"	125	456	24"	600	21450
6"	150	1008	28"	700	30516
8"	200	2171	32"	800	41603
10"	250	3441	36"	900	54193
12"	300	4946	40"	1000	62177
14"	350	6484	48"	1200	77390
16"	400	8526			

CV Value under different opening

Body Size		CV Value under different opening								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
2"	50	1.5	4.2	10	12	16	20	41	80	93
2 1/2"	65	2.5	6.3	15	17	20	33	65	120	132
3"	80	3.1	9.8	18	25	26	52	101	165	179
4"	100	9.1	36	74	153	211	280	328	388	429
5"	125	29	88	145	210	254	285	340	419	456
6"	150	42	124	221	361	442	686	852	993	1008
8"	200	63	175	340	584	928	1330	1693	2049	2171
10"	250	143	373	686	1069	1591	2228	2795	3305	3441
12"	300	217	531	919	1395	2063	2959	3782	4547	4946
14"	350	284	682	1135	1827	2688	3637	5950	5956	6484
16"	400	348	823	1410	2297	3445	4973	6509	8162	8526
18"	450	410	985	1689	2770	4175	6066	8160	10121	11314
20"	500	572	1272	2115	3315	5222	7612	10335	12983	14870
24"	600	882	1956	3295	5026	7665	11036	14951	19100	21450
28"	700	1010	2000	3668	6192	9713	14970	20891	26570	30516
32"	800	1570	3575	5536	9030	13697	20370	28647	36677	41603
36"	900	2543	4256	7132	11725	17423	26000	37000	46282	54193
40"	1000	4258	11669	14016	16629	21585	30713	37407	48000	62177
48"	1200	5030	16384	19720	24950	28834	35524	43980	50340	77390



Body structure size

Body Size		PN1.0/1.6/150LB		H1	H2	H3	H4	A	B	d	φ D	C×C	E
inch	mm	L1 Wafer	L2 Flange										
3"	80	64	114	122	269	90	20	75	40	M10	20	17×17	---
4"	100	56	127	132	294	68	20	90	40	M10	20	17×17	---
5"	125	64	140	145	297	68	25	90	40	M10	26	17×17	---
6"	150	70	140	159	331	75	25	110	46	M12	26	22×22	---
8"	200	71	152	198	406	75	25	110	46	M12	28	22×22	---
10"	250	76	165	224	479	80	30	130	50	M16	32	26×26	---
12"	300	83	178	259	534	80	30	130	50	M16	32	26×26	---
14"	350	92	190	304	605	95	35	142	54	M20	38	32×32	---
16"	400	102	216	325	665	95	35	142	54	M20	45	32×32	---
18"	450	114	222	364	744	100	40	170	80	M24	50	38×38	---
20"	500	127	229	394	814	100	40	170	80	M24	50	38×38	---
24"	600	154	267	449	934	120	50	184	98	M27	65	54×54	---
28"	700	165	292	490	1000	120	50	184	98	M27	75	54×54	---
32"	800	190	318	545	1125	160	60	268	105	M27	85	---	22
36"	900	203	330	603	1255	160	60	268	140	M30	90	---	25
40"	1000	216	410	675	1395	160	60	268	140	M30	100	---	28
48"	1200	254	470	870	1450	180	70	268	140	M30	100	---	28

Body Size 2"~48" DN50~DN1200

Pressure Range : ANSI 150~600# PN1.0~PN6.4Mpa

Figure 1



◆ R-71700 series high performance butterfly valve feature triple eccentric design which provide zero friction between disk and seal in 0-90° rotation. Multi level of seat that mixed with metal and non-metal material, effectively protect the valve from leakage. They are frequently applied in high temperatures services.

◆ OPTIONS

Trim: Multi-level Valve Seat
Triple Eccentric Structure

Body: Straight
Bonnet: Standard
Temperature Range: -45° C~250° C
Plug sealing: Standard
Graphite
Leakage : CLASS VI
Flow characteristic : Approximate Equal
Pipe Line Connection : Flange Wafer
Range ability: 30:1

◆ Connection

Flange: JB/T 79.194~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47
Wafer: JB/T 79.1-94~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47

◆ Actuator

- Pneumatic Diaphragm
- Pneumatic Diaphragm
- Electric Actuator
- Electro-hydraulic

Parts	Material
Body	ASTM A216 WCB/WCC ASTM A351 CF8/CF3/CF8M/CF3M
Disc	ASTM A216 WCB/WCC ASTM A351 CF8/CF3/CF8M/CF3M
Seat	ASTM A182 F304/F316/F316L Combination R.TFE or Graphite
Plug	ASTM A276 420 ASTM A276 F304/F316/F316L
Ring	ASTM A276 410 ASTM A182 F304/F316/F316L

Note: Consult Control Valve(Zhejiang) Co.,Ltd Engineer for special Alloy not listed above

Figure 1



- ◆ Three eccentric geometric design:
Use metal seal without interference, can provide long use Life.
- ◆ The first eccentric valve disc is deviated from the edge of the stem to ensure the sealing surface is not interrupted stem.
- ◆ The second eccentric is center line of the stem bias to central of valve body, when the valve disc leave the seat, the valve disc is rotated to achieve a similar cam operation. When the valve disc closing, the valve disc motion into linear motion by a cam-like operation. Throughout the movement, the edge of the valve disc has not contact with the valve seat
- ◆ The third eccentric valve from the rotation center axis line of a taper angle
Conical seat and seal components. Two cones (A taper angle versus the valve center line) is offset from the valve seat plate easier. Such design allows the valve to quick opening without contact the entire seat, thus eliminating the valve disc mutual interference with seal.

Figure 2

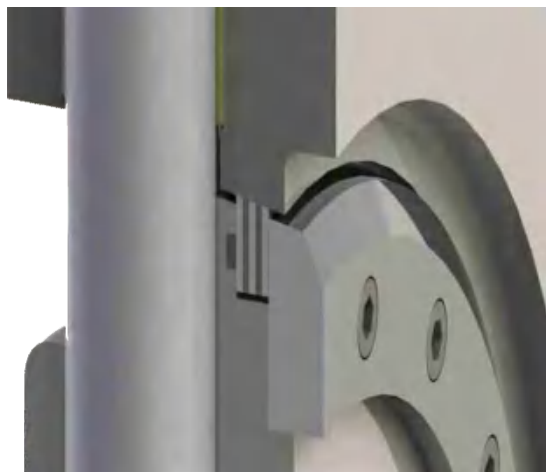
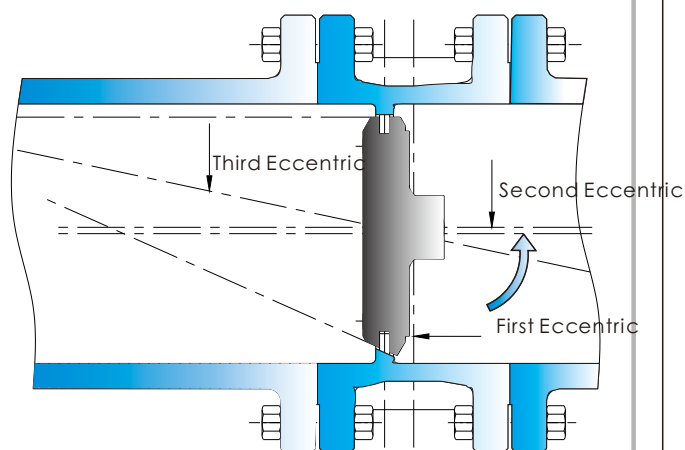


Figure 3



Rated CV value and stroke(150LB)

Body Size		Body Size	Body Size		Body Size
inch	mm	90°	inch	mm	90°
2"	50	45	18"	450	9680
2.5"	65	88	20"	500	12410
3"	80	136	24"	600	19266
4"	100	200	28"	700	26800
5"	125	350	32"	800	37271
6"	150	600	36"	900	48754
8"	200	1320	40"	1000	56800
10"	250	1780	44"	1100	62000
12"	300	2810	48"	1200	73846
14"	350	4018	56"	1400	168000
16"	400	7800	64"	1600	212000

CV values at different opening degrees(150LB)

Body Size		CV values at different opening degrees								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
2"	50	6	13	19	25	32	37	40	42	45
2.5"	65	8	16	28	45	56	68	75	80	88
3"	80	12	27	43	65	90	112	129	136	136
4"	100	16	38	68	105	139	168	186	195	200
5"	125	23	55	101	159	225	288	336	350	350
6"	150	42	111	197	288	386	493	554	584	600
8"	200	69	185	338	527	737	960	1172	1288	1320
10"	250	123	306	534	799	1099	1387	1619	1747	1780
12"	300	141	465	813	1216	1651	2088	2481	2736	2810
14"	350	203	586	1016	1562	2212	2903	3500	3902	4018
16"	400	282	757	1327	2115	3198	4524	6096	7473	7800
18"	450	329	923	1623	2621	3991	5554	7555	9354	9680
20"	500	500	1233	2120	3434	5010	7086	9526	12007	12410
24"	600	641	1589	2823	4598	7119	10322	14158	17936	19266
28"	700	861	2127	3779	6155	9615	14275	19939	25692	26800
32"	800	1184	2701	4781	7879	12439	18579	26086	33943	37271
36"	900	1401	3305	5937	9930	15681	23690	34257	44934	48754
40"	1000	1983	4385	7566	12459	19658	29334	41770	54582	56800
44"	1100	2500	5510	9400	14500	21800	32400	45500	60000	62000
48"	1200	2880	6545	11077	18000	25714	38919	53333	72000	73846
56"	1400	4752	13440	28560	50400	75600	107520	134400	157920	168000
64"	1600	5995	16960	36040	63600	95400	135680	169600	199280	212000

Rated CV value and stroke(300LB)

Body Size		Body Size	Body Size		Body Size
inch	mm	90°	inch	mm	90°
2"	50	78	16"	400	5142
2.5"	65	132	18"	450	6881
3"	80	200	20"	500	8561
4"	100	313	24"	600	13038
5"	125	488	28"	700	18439
6"	150	703	32"	800	24151
8"	200	1220	36"	900	30566
10"	250	1900	40"	1000	37736
12"	300	2700	44"	1100	45660
14"	350	3758	48"	1200	54340

CV values at different opening degrees(300LB)

Body Size		CV values at different opening degrees								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	0	4	9	18	26	36	50	60	68	78
65	0	7	16	30	43	60	85	101	114	132
80	0	10	24	46	65	91	128	152	173	200
100	0	16	37	71	102	143	200	238	270	313
125	0	25	59	112	159	223	313	372	422	488
150	0	36	86	161	230	321	450	536	608	703
200	0	64	150	286	408	572	785	950	1150	1220
250	0	98	248	459	702	981	1276	1565	1767	1900
300	0	145	342	630	998	1421	1877	2302	2615	2700
350	0	171	479	852	1324	1922	2580	3250	3743	3758
400	0	255	607	1084	1715	2523	3432	4321	5074	5142
450	0	320	796	1391	2198	3247	4505	5823	6883	6881
500	0	362	937	1672	2682	4047	5634	7219	8407	8561
600	0	543	1389	2374	3800	5684	8120	10631	12634	13038
700	0	781	1880	3320	5360	8170	11533	14843	17500	18439
800	0	1021	2443	4324	7033	10667	15238	19394	22857	24151
900	0	1292	3092	5473	8901	13500	19286	24545	28929	30566
1000	0	1595	3817	6757	10989	16667	23810	30303	35714	37736
1100	0	1930	4618	8176	13297	20167	28810	36667	43214	45660
1200	0	2297	5496	9730	15824	24000	34286	43636	51429	54340

Rated CV value and stroke(600LB)

Body Size		Body Size	Body Size		Body Size
inch	mm	90°	inch	mm	90°
2"	50	50	16"	400	3200
2.5"	65	85	18"	450	4050
3"	80	128	20"	500	5000
4"	100	200	24"	600	7200
5"	125	313	28"	700	9800
6"	150	450	32"	800	12800
8"	200	800	36"	900	16200
10"	250	1300	40"	1000	20000
12"	300	1800	44"	1100	24200
14"	350	2450	48"	1200	28800

CV values at different opening degrees(600LB)

Body Size		CV values at different opening degrees								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	0	4	9	16	24	33	40	46	49	50
65	0	6	16	27	41	56	68	78	83	85
80	0	9	24	41	62	84	102	119	125	128
100	0	15	37	64	96	132	160	185	196	200
125	0	23	58	100	150	206	250	289	306	313
150	0	33	83	144	216	296	360	417	441	450
200	0	59	148	256	385	526	640	741	784	800
250	0	92	230	400	600	820	1000	1130	1210	1300
300	0	133	332	577	865	1184	1440	1636	1748	1800
350	0	180	452	785	1178	1612	1960	2227	2379	2450
400	0	236	590	1026	1538	2105	2560	2909	3107	3200
450	0	298	747	1298	1947	2664	3240	3682	3932	4050
500	0	368	923	1603	2404	3289	4000	4545	4854	5000
600	0	530	1328	2308	3462	4737	5760	6545	6990	7200
700	0	722	1808	3141	4712	6447	7840	8909	9515	9800
800	0	943	2362	4103	6154	8421	10240	11636	12427	12800
900	0	1193	2989	5192	7788	10658	12960	14727	15728	16200
1000	0	1473	3690	6410	9615	13158	16000	18182	19417	20000
1100	0	1782	4465	7756	11635	15921	19360	22000	23495	24200
1200	0	2121	5314	9231	13846	18947	23040	26182	27961	28800

Rated CV value and stroke(900LB)

Body Size		Body Size	Body Size		Body Size
inch	mm	90°	inch	mm	90°
2"	50	47	16"	400	3333
2.5"	65	80	18"	450	4219
3"	80	121	20"	500	5500
4"	100	189	24"	600	7500
5"	125	295	28"	700	10208
6"	150	420	32"	800	13333
8"	200	660	36"	900	16875
10"	250	1302	40"	1000	20833
12"	300	1700	44"	1100	25208
14"	350	2552	48"	1200	30000

CV values at different opening degrees(900LB)

Body Size		CV values at different opening degrees								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
2"	50	4	9	16	23	29	36	42	45	47
2.5"	65	7	15	26	38	50	60	70	77	80
3"	80	10	23	40	58	75	91	107	116	121
4"	100	16	36	62	91	118	143	167	182	189
5"	125	25	56	97	142	184	223	260	284	295
6"	150	36	80	140	210	275	335	380	410	420
8"	200	80	160	250	356	460	540	600	640	660
10"	250	91	210	368	563	791	1025	1250	1359	1302
12"	300	60	189	416	709	1016	1303	1512	1671	1700
14"	350	179	411	721	1104	1551	2008	2450	2663	2552
16"	400	233	537	941	1441	2025	2623	3200	3478	3333
18"	450	295	680	1191	1824	2563	3320	4050	4402	4219
20"	500	364	838	1470	2250	3150	4100	5000	5400	5500
24"	600	525	1208	2118	3243	4557	5902	7200	7826	7500
28"	700	714	1644	2882	4414	6203	8033	9800	10652	10208
32"	800	933	2148	3765	5766	8101	10492	12800	13913	13333
36"	900	1181	2718	4765	7297	10253	13279	16200	17609	16875
40"	1000	1458	3356	5882	9009	12658	16393	20000	21739	20833
44"	1100	1764	4060	7118	10901	15316	19836	24200	26304	25208
48"	1200	2099	4832	8471	12973	18228	23607	28800	31304	30000

Control Valve(Zhejiang) Co.,Ltd



Body Size		PN4.0/300/600L		H1	H2	H3	H4	A	B	d	φ D	C×C	E	Height
inch	mm	L1 Wafer	L2 Flange											
4"	100	64	190	132	294	68	20	90	40	M10	26	17X17	---	140
6"	150	76	210	175	365	75	25	110	46	M12	28	22X22	---	140
8"	200	89	230	219	444	80	30	110	46	M12	32	26X26	---	154
10"	250	114	250	251	506	95	35	130	50	M16	38	32X32	---	175
12"	300	114	270	286	581	95	35	130	50	M16	45	32X32	---	175
14"	350	127	290	327	657	100	40	142	54	M20	55	38X38	---	191
16"	400	140	310	374	759	120	50	142	54	M20	60	52X52	---	223
18"	450	152	330	404	824	120	50	170	80	M24	65	52X52	---	223
20"	500	152	350	433	875	120	50	170	80	M24	70	---	24	223
24"	600	178	390	513	1013	160	50	184	98	M27	85	---	24	185
28"	700	---	430	625	1365	160	60	268	140	M30	φ 95	60X60	---	190
32"	800	---	470	725	1485	160	60	268	140	M30	φ 100	60X60	---	190

Body Size 4"~120" DN100~DN3000

Pressure Range : ANSI 125~150# PN0.25~PN1.0Mpa

Figure 1



- ◆ R-71600 series low load butterfly valve features conventional contoured disks, simple structure, compact and light, easy to maintain. Applicable to low pressure service and also sometimes with high temperature. Available in size up to 120" (DN3000), a great economy solution.

◆ OPTIONS

Trim: Compensational Seat

Double Eccentric structure

Body: Straight

Bonnet: Standard

Temperature Range : -45° C~250° C

Plug sealing : Standard Graphite

Leakage : CLASS VI

Flow characteristic : Approximate Equa%

Pipe Line Connection : Flange Wafer

Range ability : 30:1

Parts	Material
Body	Q235-B/A182-304 A182-316/ A182-316L
Disc	Q235-B/A182-304 A182-316/ A182-316L
Seat	Q235-B/A182-304 A182-316 /A182-316L
Plug	ASTM A276 420 ASTM A276 F304/F316/F316L

Note: Consult Control Valve(Zhejiang) Co.,Ltd Engineer for special Alloy not listed above

◆ Connection

Flange JB/T 79.194~JB/T 79.4-94/HG20616-97

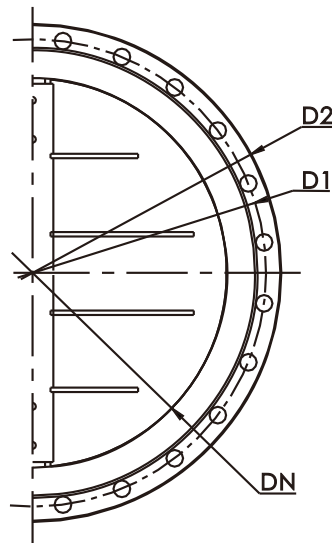
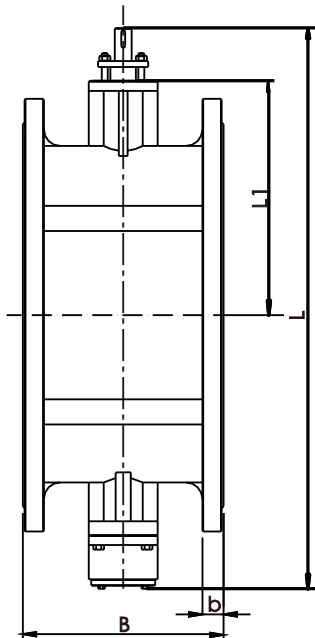
ANSI B16.5 ANSI B16.47

Wafer JB/T 79.1-94~JB/T 79.4-94/HG20616-97

ANSI B16.5 ANSI B16.47

◆ Actuator

- Pneumatic Diaphragm
- Pneumatic Diaphragm
- Electric Actuator
- Electro-hydraulic



Valve Body Spec(PN0.25/0.6)

UNIT: mm

Body Size		D2	D1	B	b	N-φd	L1	L
inch	mm							
4"	100	205	170	200	16	4-φ18	130	335
5"	125	235	200	200	18	8-φ18	145	345
6"	150	265	225	200	20	8-φ18	141	350
8"	200	320	280		22	8-φ18	170	390
10"	250	375	335	200	24	12-φ18	197	440
12"	300	440	395			12-φ22	220	515
14"	350	490	445	200	24	12-φ22	250	565
16"	400	540	495			16-φ22	270	630
18"	450	595	550	250	26	16-φ22	300	680
20"	500	645	600			20-φ22	325	730
24"	600	755	705	300	26	20-φ26	510	1006
28"	700	860	810			24-φ26	560	1118
32"	800	975	920	400	26	24-φ30	618	1300
36"	900	1075	1020			24-φ30	668	1400
40"	1000	1175	1120	400	26	28-φ30	718	1500
48"	1200	1405	1340		28	32-φ33	818	1720
56"	1400	1630	1560	500	32	36-φ36	918	1920
60"	1500	1730	1660		34	38-φ36	1000	2010
64"	1600	1830	1760			40-φ36	1050	2110
72"	1800	2045	1970	500	36	44-φ39	1150	2410
80"	2000	2265	2180		38	48-φ42	1250	2610
88"	2200	2475	2390	500	42	52-φ42	1437	2900
96"	2400	2685	2600	500	44	56-φ42	1551	3200
104"	2600	2905	2810	500	46	60-φ48	1652	3400
112"	2800	3155	3020	500	48	64-φ48	1750	3700
120"	3000	3315	3220	500	50	68-φ48	1850	4000

Rated CV Value and stoke

Body Size		Rated CV Value
inch	mm	90° opening
3"	80	205
4"	100	436
5"	125	585
6"	150	965
8"	200	1908
10"	250	3420
12"	300	4920
14"	350	5816
16"	400	8543
18"	450	12420
20"	500	15160
24"	600	20800
28"	700	29900
32"	800	38900
36"	900	49000
40"	1000	63000
48"	1200	73000
56"	1400	109000
64"	1600	125000
72"	1800	186500
80"	2000	214600
88"	2200	286700
96"	2400	308600
104"	2600	382200
112"	2800	470000
120"	3000	560000

Body Size 2"~24" DN50~DN600

Pressure Range : ANSI 125~150# PN0.6~PN1.6Mpa

Figure 1



◆ R-71500X series butterfly valve lined with rubber, valve body and disk lined with synthetic rubber or alloy steel disk to protect valve from erosive and leakage. This valve used to cut off for application like water, air, gas with economy cost.

◆ OPTIONS

Trim : Central Lining

Body : Straight

Bonnet: Standard

Temperature Range : -20° C~80° C

Plug sealing : RTFE O - ring

Leakage : CLASS VI

Flow characteristic : Approximate Equal %

Pipe Line Connection: Flange Wafer

Range ability : 30:1

Parts	Material
Body	ASTM A216 WCB+EPDM
Disc	ASTM A351 CF8/CF3/CF8M/CF3M stainless steel
Material	EPDM
Plug	ASTM A276 420 ASTM A276 F304/F316/F316L

Note: Consult Control Valve(Zhejiang) Co.,Ltd Engineer for special Alloy not listed above

◆ Connection

Flange: JB/T 79.1-94~JB/T 79.4-94/HG20616-97

ANSI B16.5 ANSI B16.47

Wafer: JB/T 79.1-94~JB/T 79.4-94/HG20616-97

ANSI B16.5 ANSI B16.47

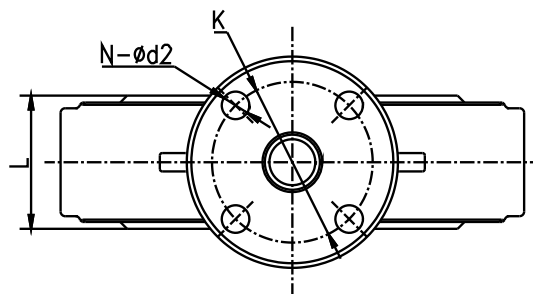
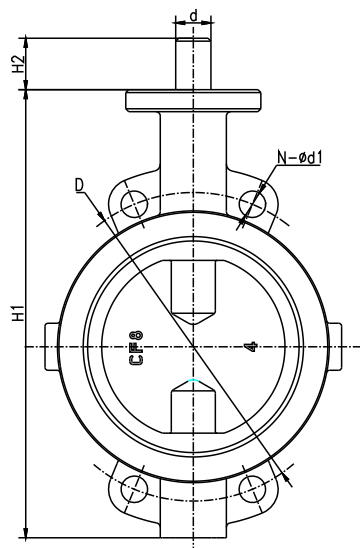
◆ Actuator

a. Pneumatic Diaphragm

b. Pneumatic Diaphragm

c. Electric Actuator

d. Electro-hydraulic



Valve Body Spec

mm

Body Size		L	H1	H2	PN1.0MPa		PN1.6MPa		d	K	N-ød2
inch	mm				D	N-ød1	D	N-ød1			
2"	50	43	218	27	125	4-ø18	125	4-ø18	14	57	4-ø7
2 1/2"	65	46	235	27	145	4-ø18	145	4-ø18	14	57	4-ø7
3"	80	46	251	27	160	4-ø18	160	8-ø18	14	57	4-ø7
4"	100	52	284	27	180	8-ø18	180	8-ø18	16	70	4-ø11
5"	125	56	313	27	210	8-ø18	210	8-ø18	20	70	4-ø11
6"	150	56	339	27	240	8-ø23	240	8-ø23	20	70	4-ø11
8"	200	60	403	35	295	8-ø23	295	12-ø23	22	88	4-ø14
10"	250	68	466	35	350	12-ø23	355	12-ø27	22	88	4-ø14
12"	300	78	535	35	400	12-ø23	410	12-ø27	28	108	4-ø14
14"	350	78	605	35	460	16-ø23	470	16-ø27	32	108	4-ø14
16"	400	102	680	42	515	16-ø27	525	16-ø30	32	160	4-ø21
18"	450	114	730	42	565	20-ø27	585	20-ø30	32	160	4-ø21
20"	500	127	792	42	620	20-ø27	650	20-ø33	36	160	4-ø21
24"	600	154	850	42	725	20-ø30	770	24-ø36	36	215	4-ø21

Rated CV Value and stoke

Body Size		Rated CV Value	Body Size		Rated CV Value
inch	mm		inch	mm	
		90°opening			90°opening
2"	50	70	10"	250	3740
2 1/2"	65	175	12"	300	5100
3"	80	265	14"	350	6860
4"	100	480	16"	400	8960
5"	125	750	18"	450	11340
6"	150	1350	20"	500	14000
8"	200	2310	24"	600	20160

Body Size: 2"~24" DN50~DN600

Pressure Range : ANSI 125~150# PN0.6~PN1.6Mpa

Figure 1



◆ R-71500C series butterfly valve lined with PTFE, valve body and disk lined with PTFE or F46 to protect valve from erosive and leakage. This valve used to cut off for application of erosive chemical fluids.

◆OPTIONS

Trim : Central Lining

Body : Straight

Bonnet : Standard

Temperature Range : -45°C~250°C

Plug sealing: RTFE O - ring

Leakage : CLASS VI

Flow characteristic : Approximate Equal %

Pipe Line Connection : Flange Wafer

Range ability: 30:1

Parts	Material
Body	ASTMA216 WCB
Disc	ASTMA216 WCB
Material	PTFE / F46/PFA
Plug	ASTM A276 420 ASTM A276 F304/F316/F316L

Note: Consult Control Valve(Zhejiang) Co.,ltd Engineer for special Alloy not listed above

◆ Connection

Flange JB/T 79.1-94~JB/T 79.4-94/HG20616-97

ANSI B16.5 ANSI B16.47

Wafer: JB/T 79.1-94~JB/T 79.4-94/HG20616-97

ANSI B16.5 ANSI B16.47

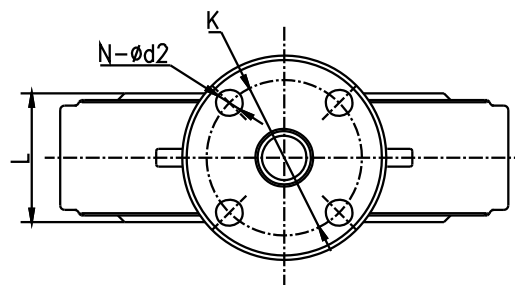
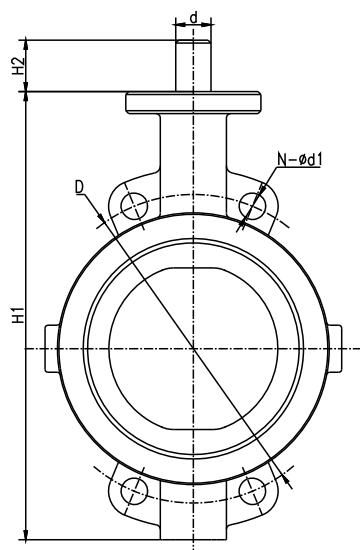
◆ Actuator

a. Pneumatic Diaphragm

b. Pneumatic Diaphragm

c. Electric Actuator

d. Electro-hydraulic



Valve Body Spec

UNIT: mm

Body Size		L	H1	H2	PN1.0MPa		PN1.6MPa		d	K	N-ød2
inch	mm				D	N-ød1	D	N-ød1			
2"	50	43	218	27	125	4-ø18	125	4-ø18	14	57	4-ø7
2 1/2"	65	46	235	27	145	4-ø18	145	4-ø18	14	57	4-ø7
3"	80	46	251	27	160	4-ø18	160	8-ø18	14	57	4-ø7
4"	100	52	284	27	180	8-ø18	180	8-ø18	16	70	4-ø11
5"	125	56	313	27	210	8-ø18	210	8-ø18	20	70	4-ø11
6"	150	56	339	27	240	8-ø23	240	8-ø23	20	70	4-ø11
8"	200	60	403	35	295	8-ø23	295	12-ø23	22	88	4-ø14
10"	250	68	466	35	350	12-ø23	355	12-ø27	22	88	4-ø14
12"	300	78	535	35	400	12-ø23	410	12-ø27	28	108	4-ø14
14"	350	78	605	35	460	16-ø23	470	16-ø27	32	108	4-ø14
16"	400	102	680	42	515	16-ø27	525	16-ø30	32	160	4-ø21
18"	450	114	730	42	565	20-ø27	585	20-ø30	32	160	4-ø21
20"	500	127	792	42	620	20-ø27	650	20-ø33	36	160	4-ø21
24"	600	154	850	42	725	20-ø30	770	24-ø36	36	215	4-ø21

Rated CV Value and stoke

Body Size		Rated CV Value	Body Size		Rated CV Value
inch	mm	90°opening	inch	mm	90°opening
2"	50	70	10"	250	3740
2 1/2"	65	175	12"	300	5100
3"	80	265	14"	350	6860
4"	100	480	16"	400	8960
5"	125	750	18"	450	11340
6"	150	1350	20"	500	14000
8"	200	2310	24"	600	20160

Body Size 4"~24" DN100~DN600

Pressure Range : ANSI 150~600# PN1.6~PN6.4Mpa

Figure 1



- ◆ L-71030 Cryogenic butterfly modify from R-71730
High performance and R-71800 triple eccentric valve structure, Specific for cryogenic service. reliable performance by using alloy material with proper treatment, extension bonnet double sealing with shaft, ensure sealing ability and prolong life cycle.

◆ OPTIONS

Body: Straight
Bonnet: Standard
Temperature Range : -196°C~538°C
Plug sealing : Standard Graphite

Leakage : CLASS V
Flow characteristic : Approximate Equal %
Pipe Line Connection: Flange Wafer
Range ability : 30:1

Parts	Material
Body	ASTM A351 CF8/CF3/CF8M/CF3M
Disc	ASTM A351 CF8/CF3/CF8M/CF3M
Seat	ASTM A182 F304/F316/F316L Combination R.TFE or Graphite
	ASTM A182 F304/F316/F316L
Plug	ASTM A276 F304/F316/F316L
Ring	ASTM A182 F304/F316/F316L

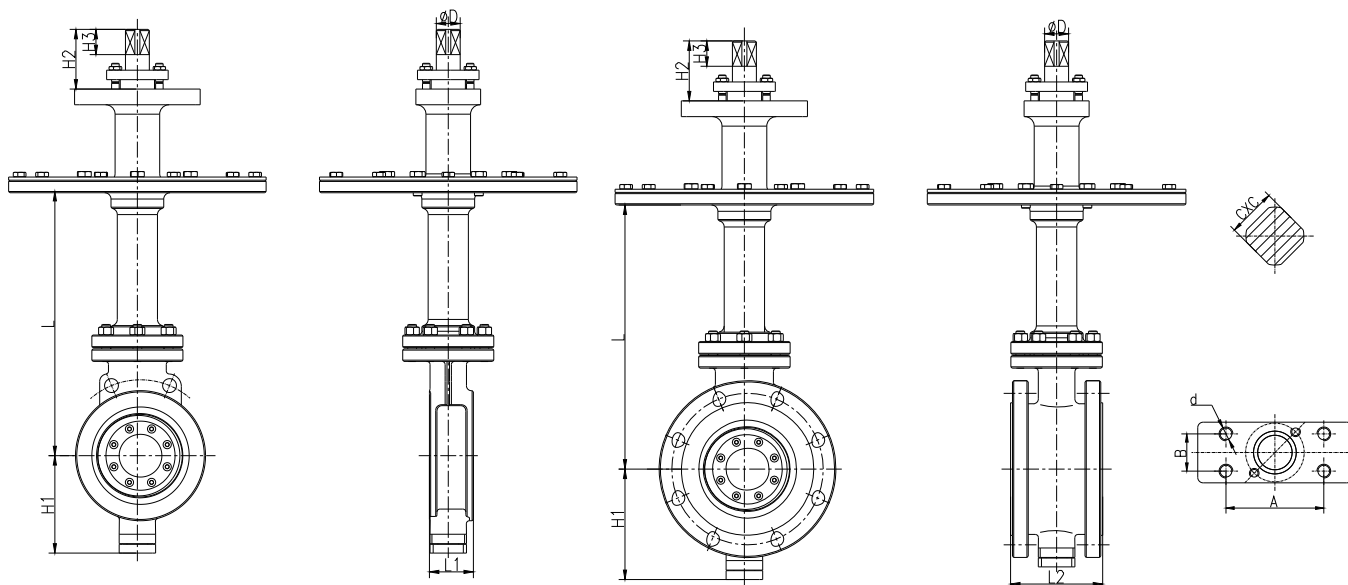
Note: Consult Control Valve(Zhejiang) Co.,ltd Engineer for special Alloy not listed above

◆ Connection

Flange JB/T 79.194~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47
Wafer JB/T 79.1-94~JB/T 79.4-94/HG20616-97
ANSI B16.5 ANSI B16.47

◆ Actuator

- Pneumatic Diaphragm
- Pneumatic Diaphragm
- Electric Actuator
- Electro-hydraulic

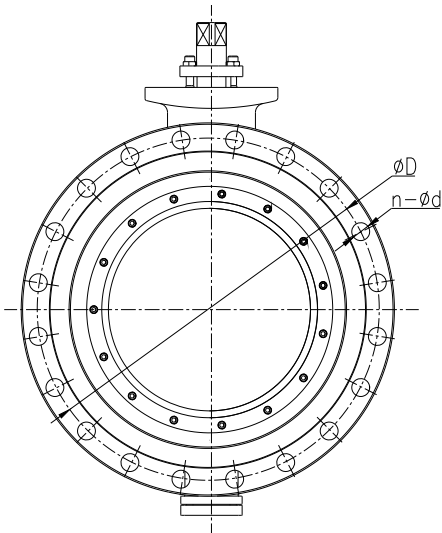
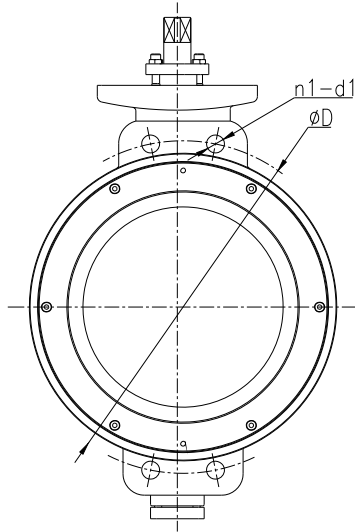


Valve Body Spec

Body Size		PN1.0/1.6/150LB		PN4.0/300/600LB		H1	H2	H3	A	B	φ D	UNIT: mm C×C
inch	mm	L1 Wafer	L2 Flange	L1 Wafer	L2 Flange							
4"	100	56	127	64	190	132	68	20	90	40	26	17×17
6"	150	70	140	76	210	159	75	25	110	46	28	22×22
8"	200	71	152	89	230	198	75	25	110	46	32	26×26
10"	250	76	165	114	250	224	80	30	130	50	38	32×32
12"	300	83	178	114	270	259	80	30	130	50	45	32×32
14"	350	92	190	127	290	304	95	35	142	54	55	38×38
16"	400	102	216	140	310	325	95	35	142	54	60	52×52
18"	450	114	222	152	330	364	100	40	170	80	65	52×52
20"	500	127	229	159	350	405	120	40	184	98	75	60×60
24"	600	154	267	181	390	485	120	40	184	98	75	60×60

Rated CV Value and stoke

Body Size		Rated CV Value	Body Size		Rated CV Value
inch	mm		inch	mm	
		90° opening			90° opening
3"	80	178	12"	300	4950
4"	100	430	14"	350	6485
5"	125	456	16"	400	8525
6"	150	1010	18"	450	11314
8"	200	2170	20"	500	14870
10"	250	3440	24"	600	21450



PN4.0 Valve Body End Flange Connection

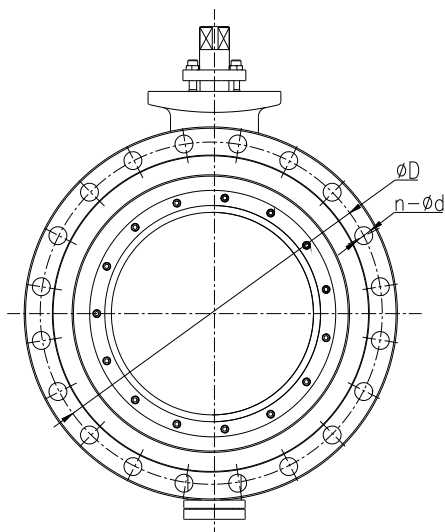
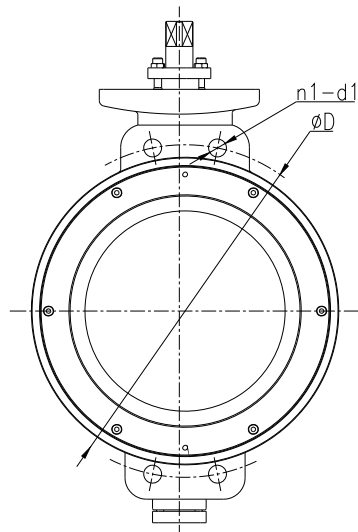
Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	160	8	$\phi 18$	4	M16
4"	100	190	8	$\phi 23$	4	M22
5"	125	220	8	$\phi 25$	4	M22
6"	150	250	8	$\phi 25$	4	M22
8"	200	320	8	$\phi 30$	4	M27
10"	250	385	12	$\phi 34$	4	M30
12"	300	450	12	$\phi 34$	4	M30
14"	350	510	16	$\phi 34$	4	M30
16"	400	585	16	$\phi 41$	4	M36
18"	450	610	20	$\phi 41$	4	M36
20"	500	670	20	$\phi 48$	4	M45
24"	600	795	20	$\phi 48$	4	M45

PN1.0 Valve Body End Flange Connection

Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	160	4	$\phi 18$	4	$\phi 18$
4"	100	180	8	$\phi 18$	4	$\phi 18$
5"	125	210	8	$\phi 18$	4	$\phi 18$
6"	150	240	8	$\phi 23$	4	$\phi 23$
8"	200	295	8	$\phi 23$	4	$\phi 23$
10"	250	350	12	$\phi 23$	4	$\phi 23$
12"	300	400	12	$\phi 23$	4	$\phi 23$
14"	350	460	16	$\phi 23$	4	M22
16"	400	515	16	$\phi 25$	4	M22
18"	450	565	20	$\phi 25$	4	M22
20"	500	620	20	$\phi 25$	4	M22
24"	600	725	20	$\phi 30$	4	M27
28"	700	840	24	$\phi 30$	4	M27
32"	800	950	24	$\phi 34$	4	M30
36"	900	1050	28	$\phi 34$	4	M30
40"	1000	1160	28	$\phi 34$	4	M30
48"	1200	1390	32	$\phi 48$	4	M45

PN1.6 Valve Body End Flange Connection

Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	160	8	$\phi 18$	4	$\phi 18$
4"	100	180	8	$\phi 18$	4	$\phi 18$
5"	125	210	8	$\phi 18$	4	$\phi 18$
6"	150	240	8	$\phi 23$	4	$\phi 23$
8"	200	295	12	$\phi 23$	4	$\phi 23$
10"	250	355	12	$\phi 25$	4	$\phi 23$
12"	300	410	12	$\phi 25$	4	$\phi 23$
14"	350	470	16	$\phi 25$	4	M22
16"	400	525	16	$\phi 30$	4	M27
18"	450	585	20	$\phi 30$	4	M27
20"	500	650	20	$\phi 34$	4	M30
24"	600	770	20	$\phi 41$	4	M36
28"	700	840	24	$\phi 41$	4	M36
32"	800	950	24	$\phi 41$	4	M36
36"	900	1050	28	$\phi 41$	4	M36
40"	1000	1170	28	$\phi 48$	4	M45
48"	1200	1390	32	$\phi 48$	4	M45



150LB Valve Body End Flange Connection

Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	152.5	4	$\phi 18$	4	$\phi 18$
4"	100	190.5	8	$\phi 18$	4	$\phi 18$
5"	125	216	8	$\phi 22$	4	$\phi 18$
6"	150	241.5	8	$\phi 22$	4	$\phi 23$
8"	200	298.5	8	$\phi 22$	4	$\phi 23$
10"	250	362	12	$\phi 26$	4	$\phi 23$
12"	300	432	12	$\phi 26$	4	$\phi 23$
14"	350	476	12	$\phi 29.5$	4	M27
16"	400	540	16	$\phi 29.5$	4	M27
18"	450	578	16	$\phi 32.5$	4	M30
20"	500	635	20	$\phi 32.5$	4	M30
24"	600	749.5	20	$\phi 35.5$	4	M33
28"	700	863.5	28	$\phi 35.5$	4	M33
32"	800	978	28	$\phi 41$	4	M36
36"	900	1086	32	$\phi 41$	4	M36
40"	1000	1200	36	$\phi 41$	4	M36
48"	1200	1390	36	$\phi 48$	4	M45

300LB Valve Body End Flange Connection

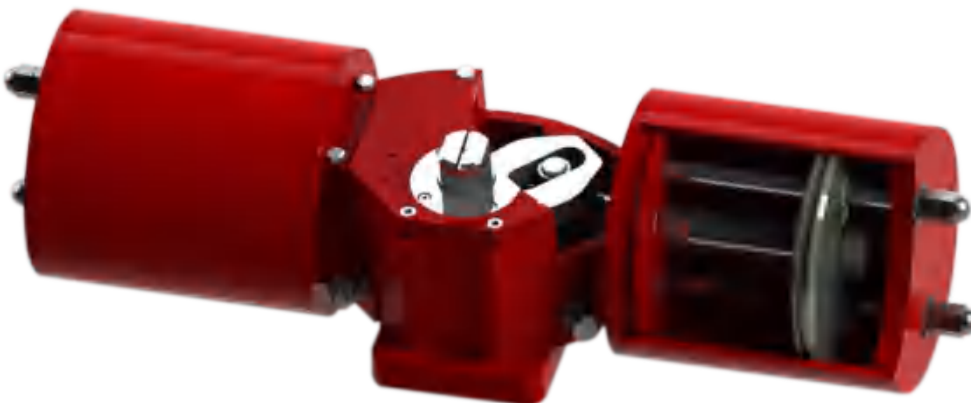
Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	168.5	8	$\phi 22$	4	M20
4"	100	200	8	$\phi 22$	4	M20
5"	125	235	8	$\phi 22$	4	M20
6"	150	270	12	$\phi 22$	4	M20
8"	200	330	12	$\phi 26$	4	M24
10"	250	387.5	16	$\phi 29.5$	4	M27
12"	300	451	16	$\phi 32.5$	4	M30
14"	350	514.5	20	$\phi 32.5$	4	M30
16"	400	571.5	20	$\phi 35.5$	4	M33
18"	450	628.5	24	$\phi 35.5$	4	M33
20"	500	686	24	$\phi 35.5$	4	M43
24"	600	813	24	$\phi 42$	4	M39

600LB Valve Body End Flange Connection

Body Size		ϕD	Wafer		Flange	
inch	mm		n	ϕd	n1	d1
3"	80	168.5	8	$\phi 22$	8	M20
4"	100	216	8	$\phi 26$	8	M24
5"	125	267	8	$\phi 29.5$	8	M27
6"	150	292	12	$\phi 29.5$	12	M27
8"	200	349	12	$\phi 32.5$	12	M30
10"	250	432	16	$\phi 35.5$	16	M33
12"	300	489	20	$\phi 35.5$	20	M33
14"	350	527	20	$\phi 39$	20	M36
16"	400	603	20	$\phi 42$	20	M39
18"	450	654	24	$\phi 45$	24	M42
20"	500	724	24	$\phi 45$	24	M42
24"	600	838	24	$\phi 51$	24	M48

BR Series Piston Double Action Actuator

Figure 1



- ◆ BR series Double acting rotary motion pneumatic actuator features steady piston movement and Spring loaded in one side . It's easy to install and maintain. Max. rotation of 100°.

BR-S Series Piston Single Action Actuator

Figure 2



- ◆ R series single acting rotary motion pneumatic actuator features steady piston movement with big output torque. It's easy to install and maintain. Max. rotation of 100°.

Single Action

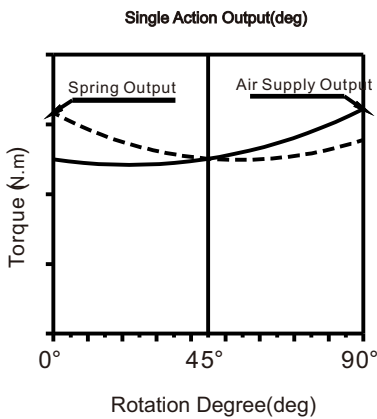
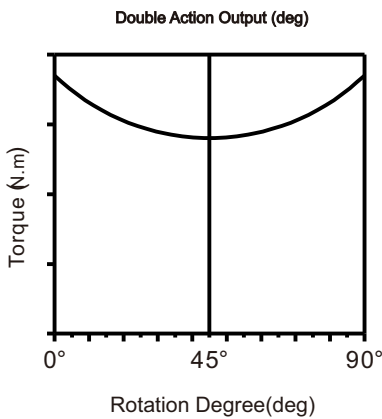
unite: N.m

Type	Spring Torque		Air Supply					
			0.4		0.5		0.6	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
BR A16S	106	1618	736	1148	1325	1734	1913	2325
BR A20S	1513	2031	922	1440	1661	2179	2399	2917
BR B25S	2270	3043	1387	2160	2492	3267	3603	4376
BR B28S	3547	4759	2164	3374	3895	5107	5625	6837
BR C28S	4928	6610	3006	4688	5409	7092	7814	9496
BR C35S	8146	10928	4968	7750	8941	11723	12916	15698
BR C40S	9812	13246	5594	9028	10304	13738	15014	18448

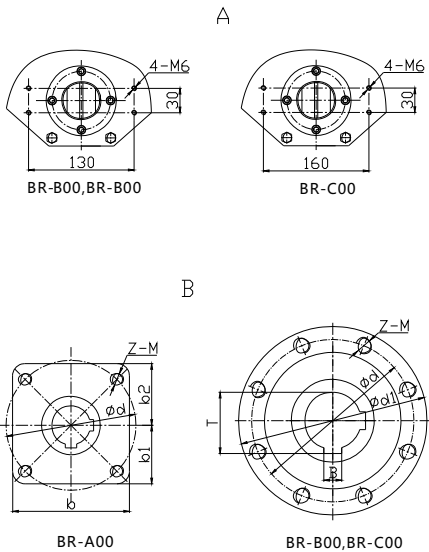
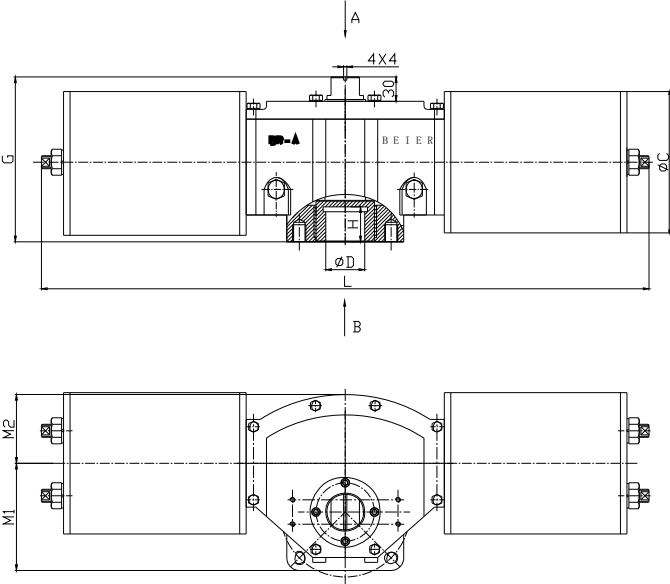
Double Action

Unite: N.m

Type	Air Supply				
	0.3	0.4	0.5	0.6	0.7
BR A16	723	964	1205	1446	1687
BR A20	1130	1507	1884	2260	2637
BR B25	2649	3532	4415	5298	6181
BR B28	3323	4430	5538	6646	7753
BR C28	4615	6154	7693	9231	10770
BR C35	7212	9616	12020	14424	16828
BR C40	9420	12560	15700	18840	21980
BR C45	11922	15896	19870	23844	27818



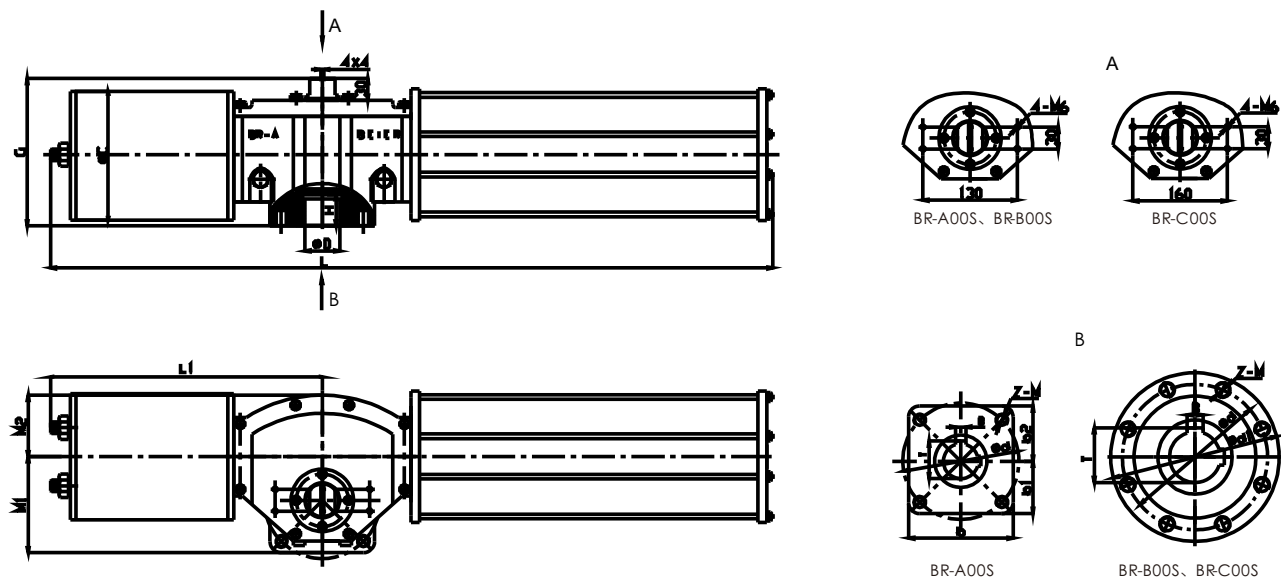
Note: Above single, double action output torque is under 45 degree rotation, 0° or 90° is 1.414 times



Dimensions and connection dimensions

Double acting cylinder (unit: mm)

Model	L	G	M1	M2	ϕC	ϕD	H	B	T	ϕd	$\phi d1$	b	b1	b2	Z-M1	Interface
BRA16	786	203	85	132	174	45	42	14	48.8	140	---	144	72	76	4-M16	G 1/4
BRA20	786	203	85	132	214	45	42	14	48.8	140	---	144	72	76	4-M16	G 1/4
BR B25	1058	218	105	206	266	60	52	18	64.4	200	232	---	---	---	8-M16	G 3/8
BR B28	1058	218	105	206	296	70	52	22	75.4	200	232	---	---	---	8-M16	G 3/8
BR C28	1360	260	140	300	296	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C35	1360	260	140	300	370	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C40	1360	260	140	300	420	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C45	1360	260	140	300	470	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2



Dimensions and connection dimensions

Single acting cylinder(unit: mm)

Model	L	G	M1	M2	ϕC	ϕD	H	B	T	ϕd	$\phi d1$	b	b1	b2	Z-M1	Interface
BRA16S	786	203	85	132	174	45	42	14	48.8	140	---	144	72	76	4-M16	G 1/4
BRA20S	786	203	85	132	214	45	42	14	48.8	140	---	144	72	76	4-M16	G 1/4
BR B20S	1058	218	105	206	214	60	52	18	64.4	200	232	---	---	---	8-M16	G 3/8
BR B25S	1058	218	105	206	266	60	52	18	64.4	200	232	---	---	---	8-M16	G 3/8
BR B28S	1058	218	105	206	296	70	52	22	75.4	200	232	---	---	---	8-M16	G 3/8
BR C28S	1360	260	140	300	296	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C35S	1360	260	140	300	370	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C40S	1360	260	140	300	420	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2
BR C45S	1360	260	140	300	470	100	106	28	106.4	300	350	---	---	---	8-M24	G 1/2

BR L Aluminum Actuator



Single Action



Double Action

Single Action

Unit: N.m

Air Supply		4Bar		5Bar		6Bar		7Bar		Spring Stroke	
Model	Spring No.	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
BR L08S	S 08	43.8	27.1	62.4	45.6	80.4	63.4	98.5	81.7	46.2	29.3
	S 09	40.2	21.5	58.4	39.4	76.5	57.6	95.2	76.6	52	33
	S 10			54.6	33.9	73.3	52.3	91.4	70.2	57.8	36.7
	S 11			51.6	28.4	69.4	46.8	87.5	64.5	63.5	40.3
	S 12					65.1	40.2	84.2	58.3	69.3	44
BR L10S	S 08	65.6	43.3	92.4	69.9	119.3	96.5	146.5	123.6	63	40.5
	S 09	60.4	35.5	87.3	62.1	114.6	88.4	141.3	115.2	70.9	45.6
	S 10			82.3	54.2	109.5	80.5	135.6	107.4	78.8	50.7
	S 11			77.2	46.3	104.2	72.9	130.2	99.4	86.7	55.7
	S 12					98.7	65.3	125.4	92.1	94.5	60.8
BR L14S	S 08	216	142	303	229	390	316	477	403	206	13
	S 09	200	116	287	203	374	290	460	377	232	148
	S 10			270	177	357	264	444	351	258	165
	S 11			254	151	341	238	428	325	283	181
	S 12					324	213	411	299	309	198
BR L16S	S 08	274	188	388	302	501	415	615	528	266	180
	S 09	252	155	365	268	479	382	592	495	299	202
	S 10			343	235	456	349	570	462	332	224
	S 11			320	202	434	315	547	429	365	247
	S 12					411	282	525	396	399	269

Single Action

Unit: N.m

Air Supply		4Bar		5Bar		6Bar		7Bar		Spring Stroke	
Model	Spring No	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
BR L19S	S 08	514	340	729	555					347	521
	S 09	470	275	686	490					391	586
	S 10	427	209	642	425	8581	640	1073	856	434	652
	S 11			599	360	814	575	1030	791	478	717
	S 12			555	295	771	510	986	726	521	782
BR L21S	S 08	706	468	1002	764					478	716
	S 09	646	375	942	671					537	809
	S 10	586	289	883	585	1179	881	1475	1177	597	895
	S 11			823	495	1119	791	1415	1087	657	985
	S 12			763	406	1059	702	1355	998	717	1074
BR L24S	S 08	1107	733	1571	1197					749	1123
	S 09	1013	593	1477	1057					843	1263
	S 10	919	452	1383	916	1848	1381	2312	1845	936	1404
	S 11			1290	776	1754	1240	2218	1704	1030	1544
	S 12			1196	636	1660	1100	2124	1564	1124	1684
BR L27S	S 08	1557	1031	2210	1684					1053	1579
	S 09	1425	834	2078	1487					1185	1776
	S 10	1293	636	1946	1289	2599	1942	3252	2595	1317	1974
	S 11			1814	1092	2467	1744	3120	2397	1448	2171
	S 12			1683	894	2335	1547	2988	2200	1580	2368

Double Action

Unit: N.m

Model	Air Supply				
	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar
BR L08	40.1	61.8	76.5	80.3	101.6
BR L10	79.8	106	133	160	186
BR L14	261	348	435	522	609
BR L16	340	454	567	681	794
BR L21	638	851	1064	1276	1489
BR L24	1072	1430	1787	2144	2502

Part number instruction

Control Valve(Zhejiang) Co.,Ltd

GYR - - DN . LB.

	Body Type
7	Butter fly Valve

	Flow Path
1	Straight Through

	GYL Series Trim
5	Central Sealing
6	Side Sealing
7	Double Eccentric
8	Triple Eccentric

	Connection End
1	Flange
2	Wafer
3	Welding
4	Screw type

	Bonnet
1	Standard
2	Radiation
3	Extension

	Characteristic
D	Equal percentage
Z	Liner
X	Quick Opening

	Suffix Instruction
R	Soft Sealing
X	Rubber Lining
S	Seat Guided
C	PTFE Lining

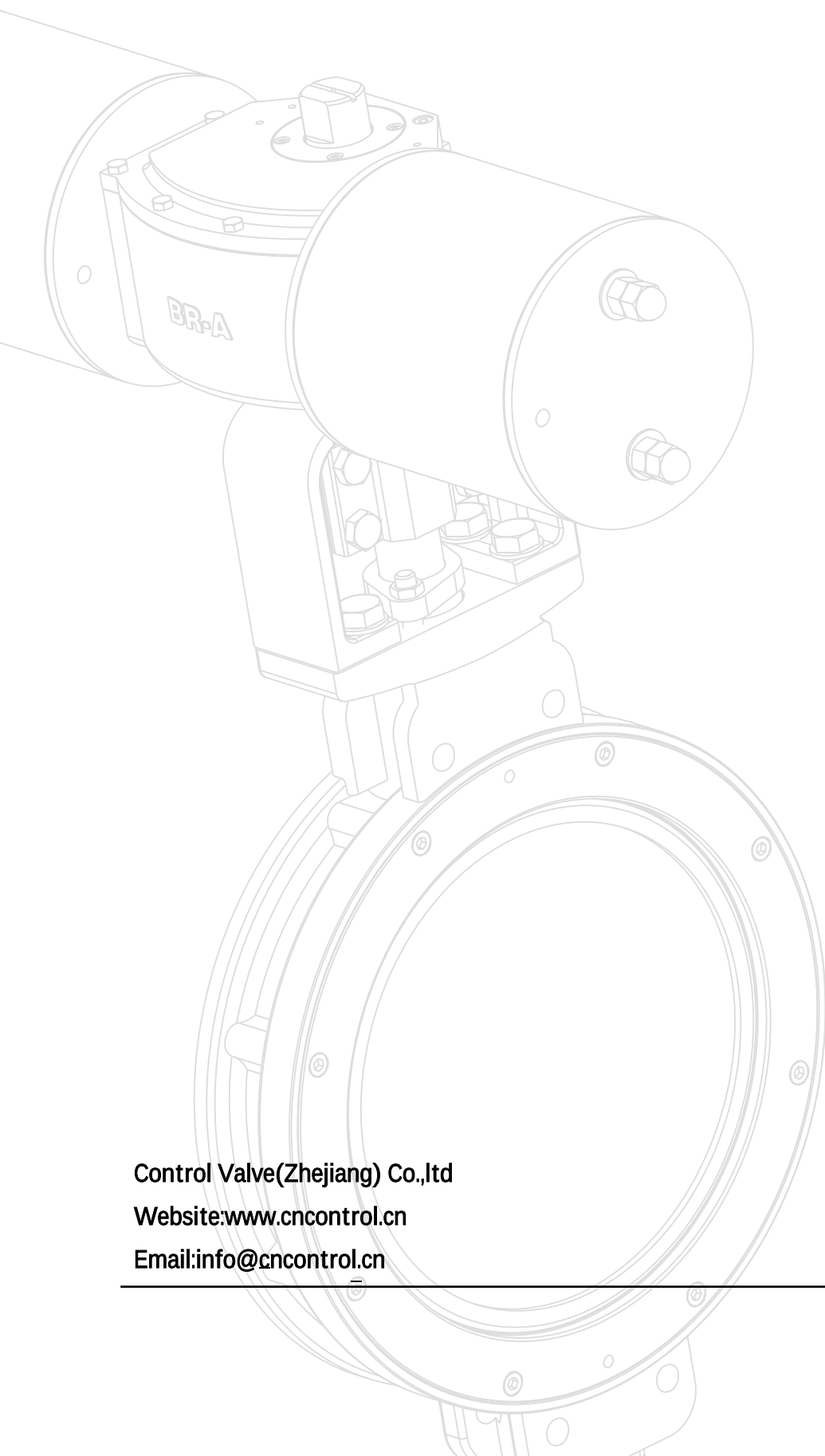
BR -

	Actuator Type
L	Aluminum
A	Steel Type 1

	Aluminum Cylinder Size		Aluminum Cylinder Size
08	80	16	160
10	100	02	200
14	140	25	250
16	160	28	280
19	190	35	350
21	210	40	400
24	240	50	500
27	270		

	Handwheel
W	Gear Box

	Action
S	Single



Control Valve(Zhejiang) Co.,Ltd

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