TRIPLE ECCENTRIC BUTTERFLY CHECK VALVE

Description

The hydraulic controlled butterfly and check valve is a special controlled damping device, composed of two major parts:

A. Triple eccentric butterfly valve (check valve)

B. An hydraulic controlled system (hydraulic control)

This multipurpose valve offers a new approach to pump discharge control. It is interlocked to the water pump by preset program.

Entirely prevents the slam and shocks subsequent to shutting down the pump unit.

Eliminate water hammer pressure while switching on or off the pumping unit.

Alleviate surges resulting from a power failure of the station.

Start the pumping unit against a controlled butterfly check valve which opens gradually, according to predetermined rate of opening, cuts out the surges.

While switching off the pump, the most desirable time period for flap closure can be achieved by simple adjustment.

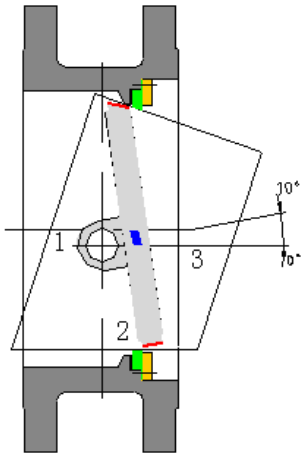
The operating system of the controlled butterfly check valve is a separate system actuated by oil. This will go on functioning, even in the absence of electrical current supply.

The closure of the valve will take place at two sequential rates. The first 95% of closure will be extremely rapid. The remaining will close slowly. The final adjustment will be done in the field.

Advantages

- Non-slamming closure
- Smooth and noiseless sealing
- Low head loss
- Corrosion resistant inner parts ensure long term service under adverse condition.

Triple eccentric design



Features:

1. 1st Offset of shaft versus disc center to prevent compression set of seat in full open position
2. 2nd Offset of seat for endless seat and seat landing area
3. 3rd Offset of cone center line to get advantages of torque closing valve

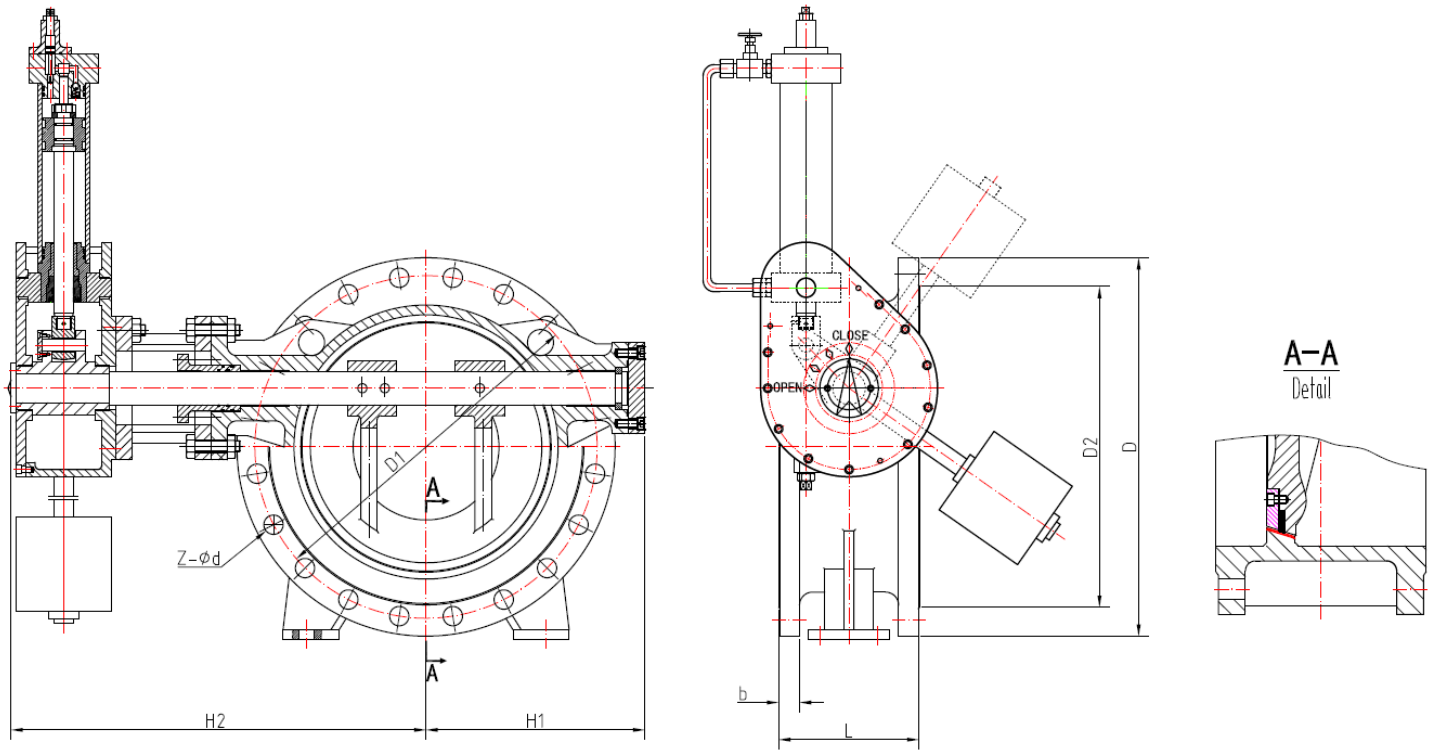
Valve Material

Part Name	Material
Body	Cast Iron Cast Steel Carbon Steel Ductile Iron Stainless Steel
Disc	Cast Iron Cast Steel Carbon Steel Ductile Iron Electroplate Coated Ductile Iron Nylon Coated Aluminum bronze Stainless Steel
Shaft	Stainless Steel Carbon Steel Coated With Electroplate
Seat	Stainless Steel Natural Rubber Nitrile Rubber Neoprene EPDM Silicone Rubber PTFE Bronze
O-Ring	Stainless Steel Neoprene Nitrile Rubber

Specification

Size	Standard Pressure PN (MPa)	Test Pressure (MPa)	Test Seal Pressure (MPa)	Working Temperature (℃)	Medium
300-1000	2.5	3.75	2.75		
300-1800	1.6	2.4	1.76		
300-2000	1.0	1.5	1.1	≤425	Raw Water
1200-2400	0.6	0.9	0.66		
2000-3400	0.25	0.375	0.275		

Dimension (Flanged ends conform to: ISO7005)



PN1.0Mpa

DN	D2	D1	D	L	b	Z-d	H1	H2	Approximate Weight
200	266	295	340	152	24	8-22	275	520	140
250	319	350	395	165	26	12-22	300	550	165
300	370	400	445	178	26	12-22	330	570	180
350	429	460	505	190	26	16-22	350	598	190
400	480	515	565	216	26	16-26	364	615	219
450	530	565	615	222	28	20-26	394	645	276
500	582	620	670	229	28	20-26	424	675	368
600	682	725	780	267	34	20-30	510	770	532
700	794	840	895	292	30	24-30	661	898	956
800	901	950	1015	318	32	24-33	726	983	1240
900	1001	1050	1115	330	34	28-33	796	1148	1530
1000	1112	1160	1230	300	34	28-36	921	1298	2104
1200	1328	1380	1455	350	38	32-39	986	1457	2890
1400	1530	1590	1675	390	42	36-42	1106	1633	3356

PN1.6Mpa

DN	D2	D1	D	L	b	Z-d	H1	H2	Approximate Weight
200	266	295	340	152	24	12-22	275	520	150
250	319	355	405	165	26	12-26	300	550	173
300	370	410	460	178	28	12-26	330	570	198
350	429	470	520	190	30	16-26	350	598	205

400	480	525	580	216	32	16-30	364	615	220
450	548	585	640	222	34	20-30	394	645	276
500	609	650	715	229	36	20-33	424	675	375
600	720	770	840	267	38	20-36	510	770	556
700	794	840	910	292	40	24-36	661	898	1031
800	901	950	1025	318	42	24-39	726	983	1340
900	1001	1050	1125	330	44	28-39	796	1148	1645
1000	1112	1170	1255	300	46	28-42	921	1298	2315
1200	1328	1390	1485	350	52	32-48	986	1457	3050
1400	1530	1590	1685	390	58	36-48	1106	1633	3460

PN2.5Mpa

DN	D2	D1	D	L	b	Z-d	H1	H2	近似重量
200	274	310	360	152	30	12-26	275	520	220
250	330	370	425	165	32	12-30	300	550	290
300	389	430	485	178	34	16-30	330	570	320
350	448	490	555	190	38	16-33	350	598	350
400	503	550	620	216	40	16-36	364	615	435
450	548	600	670	222	42	20-36	394	645	530
500	609	660	730	229	44	20-36	424	675	751
600	720	770	845	267	46	20-39	510	770	945
700	820	875	960	292	50	24-42	661	898	1342
800	928	990	1085	318	54	24-48	726	983	1768
900	1028	1090	1185	330	58	28-48	796	1148	1920
1000	1140	1210	1320	300	62	28-56	921	1298	2340
1200	1350	1420	1530	350	70	32-56	986	1457	3145
1400	1560	1640	1755	390	76	36-62	1106	1633	3678

* Values may change without notice.