

### Description:

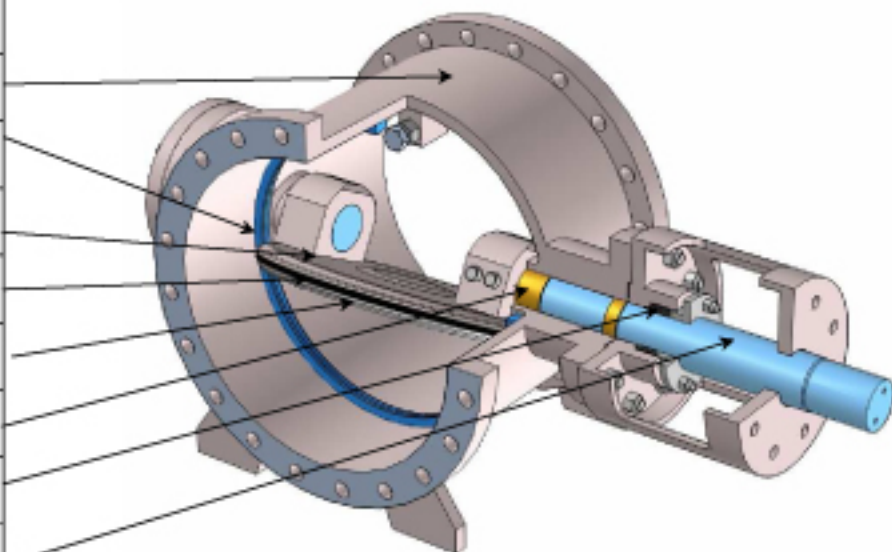
HBTV butterfly valves are of fabricated design with one disc. Double eccentric positioning of the disc permits smooth raising and resetting of the disc-seal from/on the sealing surface.

The disc is provided with special profile seal for positive, long term tightness. Drive side shaft is provided with gland packing system. Non drive shaft is sealed with special type seals.

Due to sealing materials of the valve disc and of the shafts, valve may be used in liquid and gaseous service for temperatures up to 350°C as shut-off devices in hot medium pressure pipe systems.

### Main materials:

Parts	Type standard
Body	carbon steel
Seat ring	stainless steel
Disc	carbon steel
Main sealing	lamellas/ metallic/ gaskets
Clamping ring	carbon steel
Bushings	bronze slide bushing
Seals	Gland packing Graphit
Shaft	stainless steel

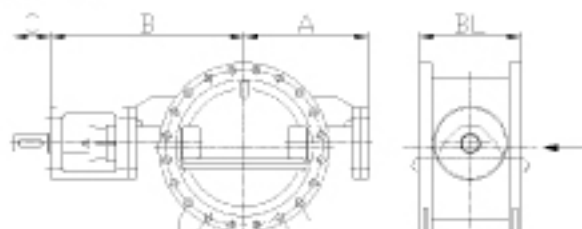


Other materials, pressure rates and temperatures are available upon request.

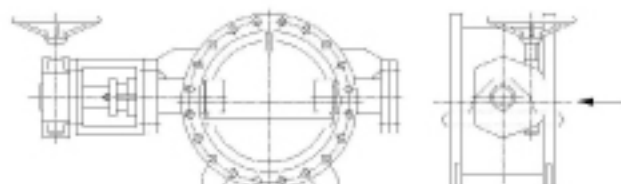
Painting for standard valves- coating for high temperature.

### Drives of valves:

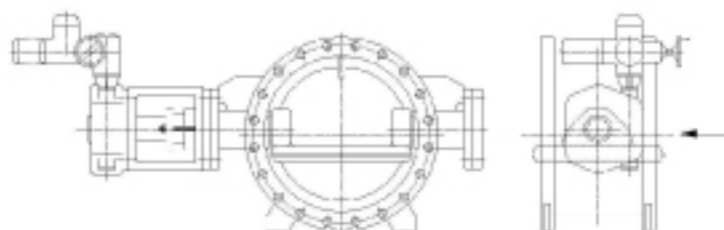
#### 1. Bare shaft



#### 2. Worm gear unit + Handwheel



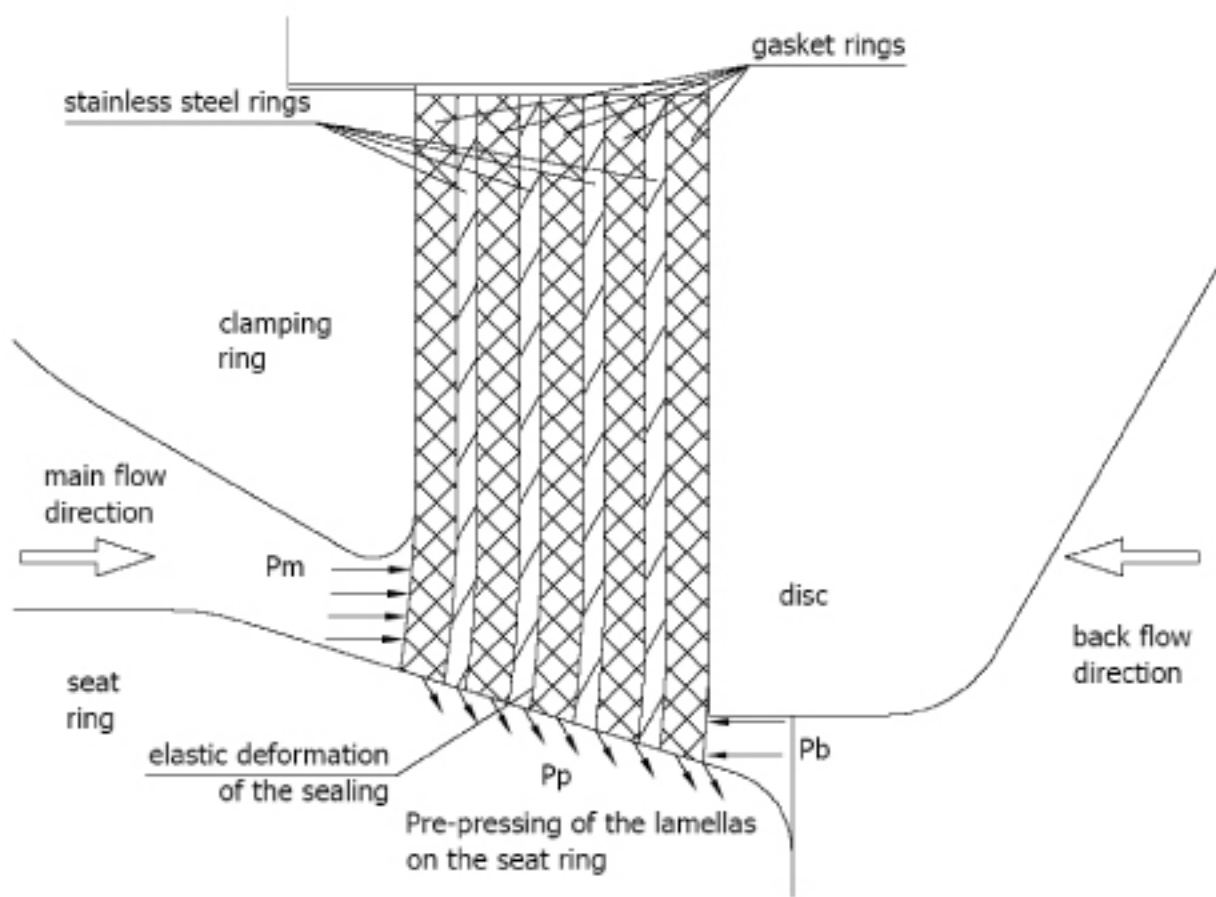
#### 3. Worm gear unit + Electric actuator





# High Temperature Butterfly Valve Type HBTV DN200(8")-1200(47") PN6-25

## Lamellas sealing system:



The main sealing system consists of thin rings made of stainless steel and thin elastic gasket ring. Thickness of the rings is 0,5 up to 2 mm. Sealing package provides tight closure in main flow directions. At closed position seal is pressed on the seat ring. The pressing causes the elastic deformation and pre-pressing on the seat ring ( $P_p$ ).

The  $P_m$  pressure support additional tightness function through increasing of the pressing of the seat ring. Pre-pressing allows keeping the sealing tight against the backflow pressure  $P_b$ .

The advantages of the Lamellas sealing system:

- Very good tightness in both directions
- Very small sensibility against wearing or damage
- Maintenance free



# High Temperature Butterfly Valve Type HBTV DN200(8")-1200(47") PN6-25

**Dimensions and weights for standard range of HBTV butterfly valves** (other sizes and pressure ratings are available upon request).

DN	BL	PN6				PN10				PN16				PN25			
		A	B	C	Weight drive I	A	B	C	Weight drive I	A	B	C	Weight drive I	A	B	C	Weight drive I
[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[kg]
200	230	250	520	50	85	250	510	50	95	250	520	50	95	260	530	55	115
250	250	280	550	50	105	280	550	55	105	285	560	65	120	300	575	70	130
300	270	310	580	55	130	310	580	65	140	320	595	75	150	340	615	75	160
350	290	340	610	60	150	340	620	75	170	350	625	80	195	380	655	80	200
400	310	370	640	70	180	370	645	75	215	390	665	80	255	420	695	100	270
450	330	400	670	75	210	400	665	75	245	420	695	90	300	440	715	110	320
500	350	420	690	75	265	420	685	90	285	450	720	110	395	470	740	120	410
600	390	480	755	90	350	480	785	110	400	520	830	130	540	540	850	150	570
700	430	540	845	100	485	540	845	130	570	570	890	160	720	610	930	180	790
800	470	610	920	130	580	610	940	160	750	640	970	180	910	680	1010	220	1070
900	510	670	1000	150	810	670	995	180	1000	700	1050	200	1210				
1000	550	730	1060	160	1040	730	1075	200	1260	760	1110	220	1660				
1200	630	870	1220	200	1620	870	1250	240	1910								

Flange in accordance with ISO / DIN.

Flanges in accordance with ANSI and MSS available on request.