

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

Application

Double-eccentric butterfly valves are industrial valves, which are designed to fully open or close the passage of the working medium flowing through a pipeline. They can also be used for flow-control purposes. However, a 100% tightness of the valve cannot be guaranteed in a long-term use for control purposes.

Working medium

Waste and service water, drinking water, hot water and steam of a temperature up to 250 °C, non-aggressive liquids and gases (natural gas, CO-gas, petroleum products, etc.).

Butterfly valves is possible to deliver with surface protection which is done by coverage with plastic material (rilsan, halar). This surface protection together with the use of stainless steel material is widening the usage of Butterfly valves for Chemically aggressive or abrasive media and Sea water.

A **maximum working temperature** of the butterfly valve depends on the packing material used.

Seal	Identification	Working temperature
Soft seal	PTFE + 15 % C, graphite with stainless steel ring and spring	from - 50 °C do / to + 250 °C
Metal x metal seal	Metal	from - 40 °C do / to + 350°C

Double-eccentric butterfly valves with metal/metal seal are produced only in wafer-type design.

Technical description

Double eccentricity (Fig. A)

1. the operating shaft axis is eccentric to the packing axis of the disc

2. the operating shaft axis is eccentric to the flow axe

Disc is clamped on the operating shaft and pivot, which are pivoted in self-lubricated friction bearings (Fig. B).

The shaft is sealed by gland packing (Fig. B).

The pivot is sealed by flat gasket.

Fig. A

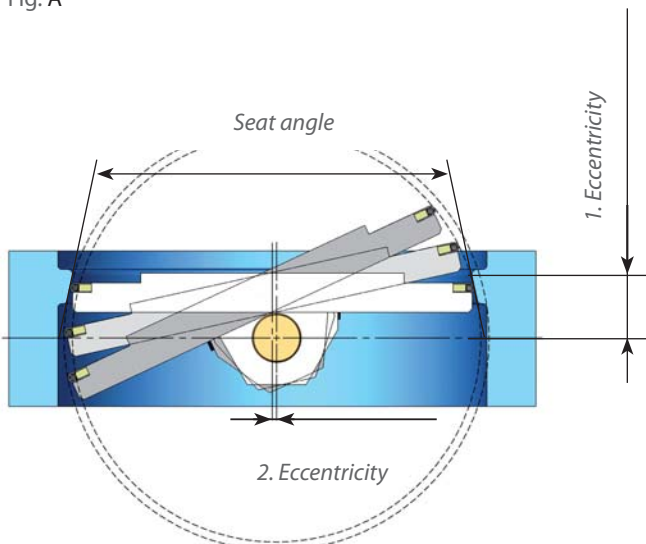
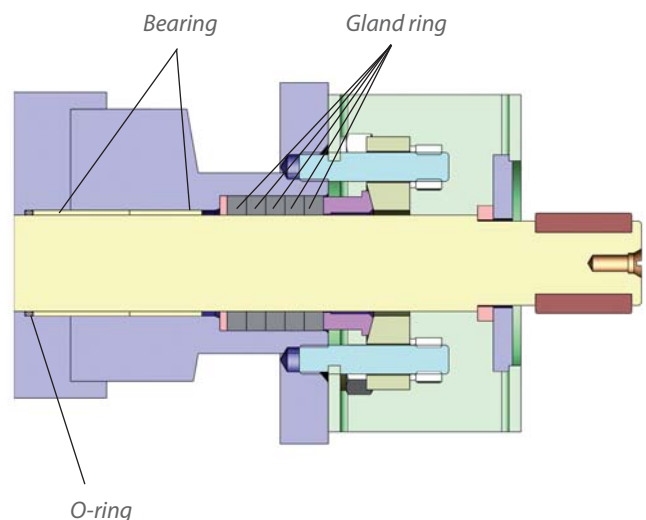


Fig. B



DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

The gasket bears on the conical area of the stainless steel seat, and is together with the disc pushed by the media pressure onto the conical seat, and by this is an absolute tightness reached (Fig. C). The tightness is restricted when the media flow is from the opposite side. To see the tightness grade is upon request.

For DN 80 - 125 is the major packing ring attached in the body by the thrust ring. In the „closed“ position, the disc is pushed against the seat by its conical area due to the pressure caused by the working medium, which ensures a total tightness in that direction (Fig. D). For all the valve variants, however, the valve tightness is limited in the opposite flow direction. For the leakage class in opposite direction please contact manufacturer.

Fig. C

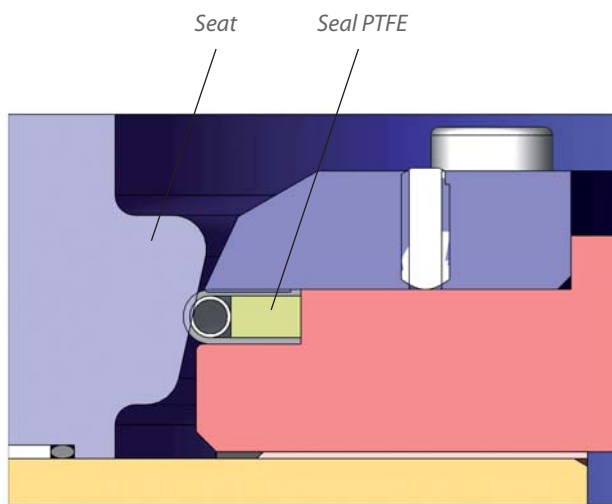
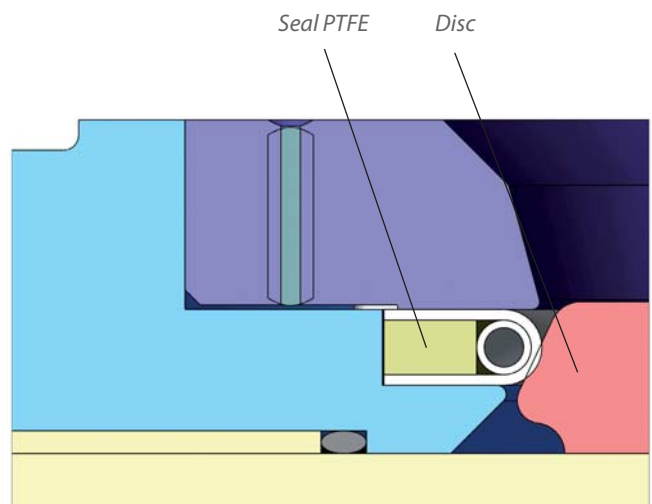


Fig. D



Operation

Manual gear-box, electric actuator, pneumatic or hydraulic actuator, remote control from a stand, lever with a counterweight for closing the valve and hydraulic cylinder for opening the valve.

Testing

The valves are tested according to EN 12 266-1/ISO 5208.

Connection to piping

- flanged ends acc. to EN 1092-1, face to face dimensions acc. to EN 558-1, Series 14
 - wafer type acc. to EN 1092-1, face to face dimensions acc. to EN 558-1, Series 16
 - welded ends acc. to EN 12 627, eventually acc. to the customer's requirement
 - face to face dimension acc. to EN 12 982, Series 14
- Other face to face and connecting dimensions are acc. to the customer's requirement, e.g. ANSI.

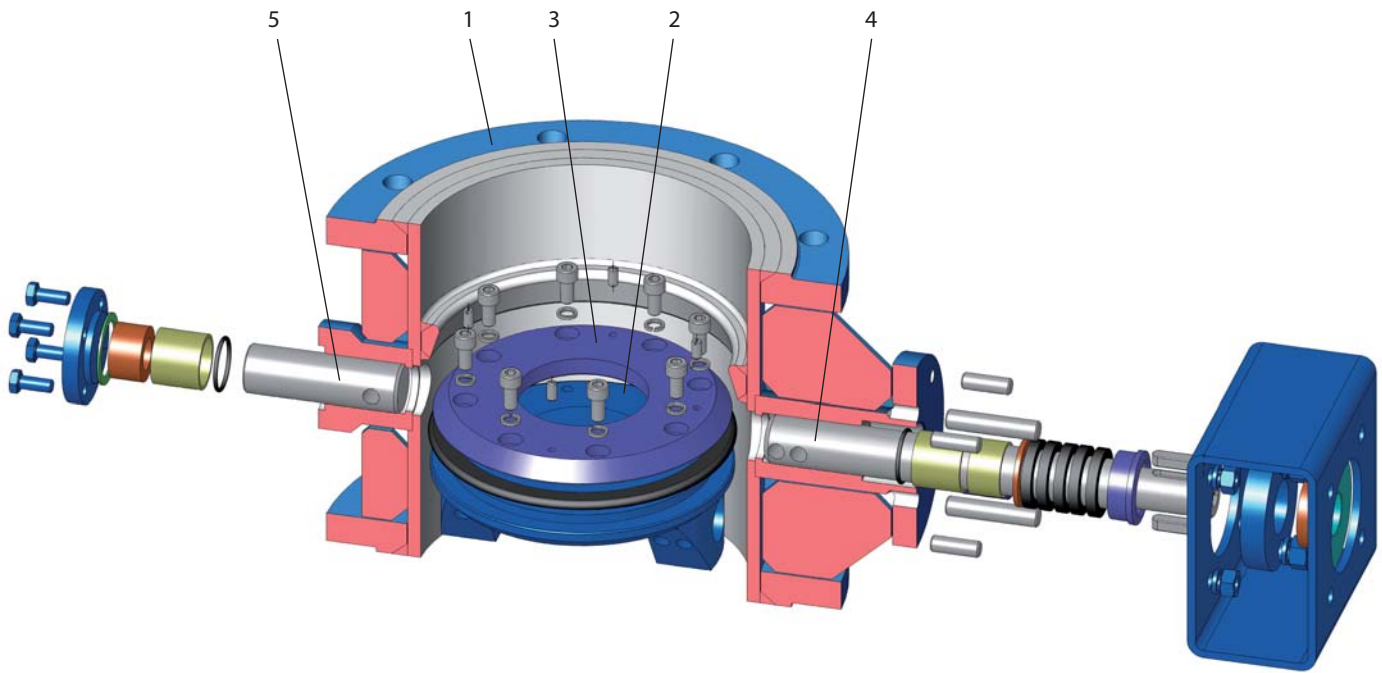
Installation

The butterfly valves can be mounted into horizontal, vertical or inclined pipeline so that the arrow stamped on the valve body corresponds with the direction of the tightness (arrow points from higher pressure to lower when the disc is closed), and the rotating axis of the disc is in a horizontal position. The bolt type at the pivot area is also very important. When there is a butterfly valve with electric actuator it is important to abide the actuator's manufacturer.

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

Material

Position	Component	Material acc. EN			Material acc. ASTM			
1	Body	1.0570	1.0566	1.4541	A 105	A 350 LF2	A182 F316	
2	Disc	1.0570	1.0566	1.4541	A 105	A 350 LF2	A182 F316	
3	Seat	1.4541			A 182 F304	A 182 F304	A182 F316	
4,5	Shaft	steel 13 % Cr			1.4541	A182 F6A	A 182 F6A	A182 F316



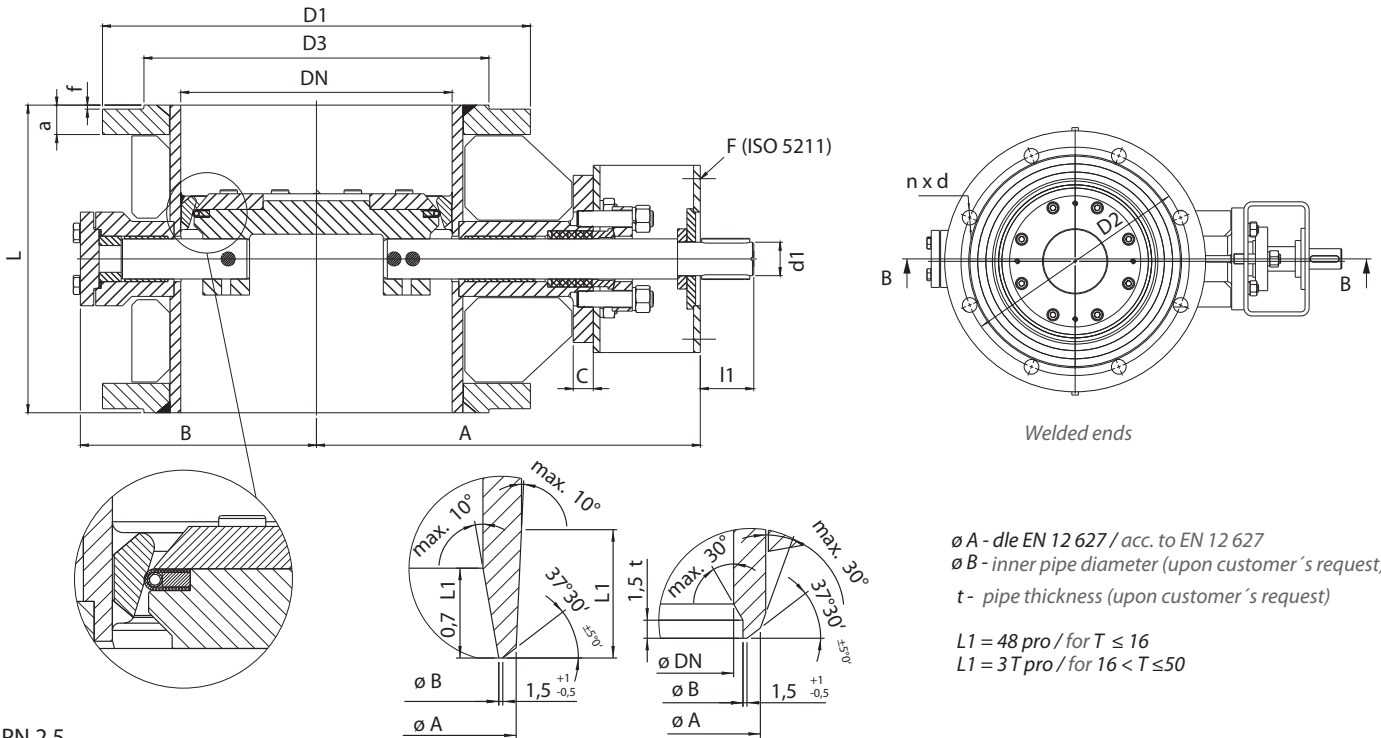
Production range

DN	Flanged ends						Welded ends					Wafer type						KOV x KOV / Wafer type design metal x metal				
	PN						PN					PN						PN				
	2,5	6	10	16	25	40	2,5	6	10	16	25	2,5	6	10	16	25	40	10	16	25	40	
80																						
100																						
125																						
150																	
200																	
250																	
300																	
350																	
400																	
500																	
600																	
700																	
800																	
1000																	
1200
1400																
1600																
2000																

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

PN 2,5 - 40 • DN 150 - 2000 • Tmax + 250 °C
PTFE / Design: PTFE seal

Connection: EN 1092-1 FLANGED ENDS
 EN 12 627 WELDED ENDS



PN 2,5

DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
1200	1180	800	30	630	25	65	110	1375	1320	1280	40	2	30	32	1250
1400	1150	890	30	710	25	65	110	1575	1520	1480	44	2	30	36	1640
1600	1270	1100	30	790	25	100	145	1790	1730	1690	48	2	30	40	2840
2000	1500	1300	35	950	30	140	165	2190	2130	2090	54	2	30	48	4680

PN 6

DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
150	253	146	15	210	10	25	40	265	225	202	20	2	18	8	39
200	290	180	15	230	10	25	40	320	280	258	22	2	18	8	45
250	320	210	20	250	12	30	40	375	335	312	24	2	18	12	54
300	335	230	20	270	12	30	50	440	395	365	24	2	22	12	82
350	360	260	20	290	12	35	50	490	445	415	26	2	22	12	118
400	400	295	20	310	12	35	50	540	495	465	28	2	22	16	164
500	510	360	25	350	14	40	70	645	600	570	30	2	22	20	240
600	560	415	25	390	16	50	85	755	705	670	30	2	26	20	370
700	600	460	25	430	16	50	70	860	810	775	32	2	26	24	520
800	770	530	25	470	16	50	90	975	920	880	34	2	30	24	710
1000	830	660	30	550	25	80	110	1175	1120	1080	36	2	30	28	1090
1200	1030	800	30	630	25	80	110	1405	1340	1295	40	2	33	32	1310
1400	1150	890	30	710	30	100	110	1630	1560	1510	44	2	36	36	1700
1600	1300	1100	35	790	40	140	145	1830	1760	1710	48	2	36	40	3300
2000	1500	1300	35	950	40	160	165	2265	2180	2125	54	2	42	48	4800

* face to face dimensions for welded ends are in compliance with flange connections (can be different upon customer's request)

Pipe dimensions $\varnothing D \times t$ ($\varnothing D$ – outside pipe diameter; t – the pipe thickness) for welding are given by customer.

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7



PN 2,5 - 40 • DN 150 - 2000 • Tmax + 250 °C
PTFE / Design: PTFE seal

Connection:  EN 1092-1 FLANGED ENDS
 EN 12 627 WELDED ENDS

PN 10

DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
150	253	146	15	210	10	25	40	285	240	212	24	2	22	8	40
200	290	180	15	230	10	25	40	340	295	268	24	2	22	8	45
250	320	210	20	250	12	30	40	395	350	320	26	2	22	12	60
300	335	230	20	270	12	30	50	445	400	370	26	2	22	12	80
350	360	260	20	290	12	35	50	505	460	430	28	2	22	16	100
400	400	295	20	310	12	35	50	565	515	482	32	2	26	16	140
500	510	360	25	350	14	40	70	670	620	585	38	2	26	20	235
600	560	415	25	390	16	50	85	780	725	685	42	2	30	20	365
700	620	485	25	430	16	65	90	895	840	800	42	2	30	24	505
800	700	550	25	470	16	70	90	1015	950	905	44	2	33	24	700
1000	850	680	30	550	25	80	110	1230	1160	1110	44	2	36	28	1090
1200	940	760	30	630	25	100	140	1455	1380	1330	46	2	39	32	1280
1400	1280	980	40	710	40	140	145	1675	1590	1535	48	2	42	36	2790
1600	1620	1080	40	790	40	140	165	1915	1820	1760	58	2	48	40	3690
2000	1820	1350	40	950	40	160	240	2325	2230	2170	64	2	48	48	3990

PN 16

DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
150	253	146	15	210	10	25	40	285	240	212	24	2	22	8	46
200	265	175	15	230	10	25	40	340	295	268	26	2	22	12	46
250	315	205	20	250	12	30	50	405	355	320	29	2	26	12	62
300	350	245	20	270	12	35	50	460	410	378	32	2	26	12	95
350	380	275	20	290	12	40	50	520	470	438	35	2	26	16	127
400	455	310	25	310	14	40	70	580	525	490	38	2	30	16	174
500	520	375	25	350	16	50	90	715	650	610	46	2	33	20	255
600	620	435	30	390	25	65	90	840	770	725	52	2	36	20	392
700	670	490	30	430	25	70	110	910	840	795	52	2	36	24	550
800	750	565	30	470	25	85	130	1025	950	900	54	2	39	24	745
1000	865	700	30	550	25	100	140	1255	1170	1115	54	2	42	28	1260
1200	1000	810	35	630	25	100	160	1485	1390	1330	58	2	48	32	1700
1400	1280	980	40	710	40	140	220	1685	1590	1530	58	2	48	36	2890
1600	1620	1080	40	790	40	160	240	1930	1820	1750	64	2	56	40	4030

PN 25

DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
150	253	146	15	210	10	25	50	300	250	218	30	2	26	8	53
200	290	185	20	230	12	25	50	360	310	278	32	2	26	12	55
250	325	225	20	250	12	30	60	425	370	335	35	2	30	12	71
300	350	250	20	270	12	35	75	485	430	395	38	2	30	16	109
350	440	295	25	290	14	40	80	555	490	450	42	2	33	16	155
400	475	330	25	310	16	50	80	620	550	505	46	2	36	16	208
500	535	395	30	350	25	55	110	730	660	615	56	2	36	20	298
600	660	460	30	390	25	70	110	845	770	720	68	2	39	20	525
700	690	505	30	430	25	85	110	960	875	820	68	2	42	24	640
800	805	580	30	470	30	100	140	1085	990	930	70	2	48	24	860
1000	1000	800	35	550	30	120	160	1320	1210	1140	70	2	56	28	1500
1200	1150	910	40	630	40	140	220	1550	1420	1350	70	2	56	32	2290
1400	1280	980	40	710	40	160	240	1755	1640	1560	76	2	62	36	3690

* face to face dimensions for welded ends are in compliance with flange connections (can be different upon customer's request)

Pipe dimensions $\varnothing D \times t$ ($\varnothing D$ – outside pipe diameter; t – the pipe thickness) for welding are given by customer.

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

PN 2,5 - 40 • DN 150 - 2000 • Tmax + 250 °C
 Design: PTFE seal

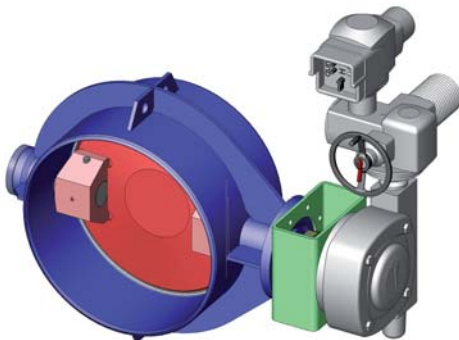
Connection:  EN 1092-1 FLANGED ENDS
 EN 12 627 WELDED ENDS

PN 40

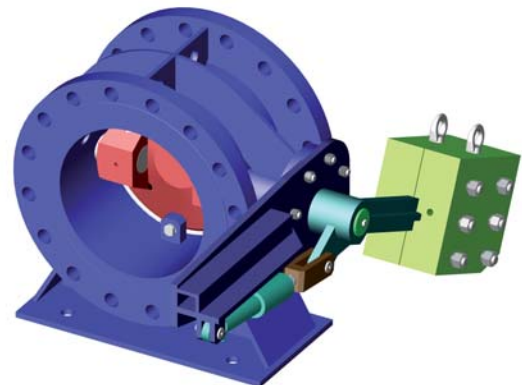
DN	A	B	C	L*	F	d1	l1	Flanged ends							
								D1	D2	D3	a	f	d	n	kg
150	200	150	20	210	12	27	45	300	250	218	28	2	26	8	87
200	230	205	25	230	14	35	60	375	320	285	34	2	30	12	102
250	270	255	25	250	14	40	70	450	385	345	38	2	33	12	133
300	305	280	25	270	14	40	100	515	450	410	42	2	33	16	205
350	355	315	25	290	16	55	110	580	510	465	46	2	36	16	275
400	380	340	30	310	25	60	110	660	585	535	50	2	39	16	400
500	450	425	30	350	25	70	120	755	670	615	57	2	42	20	530
600	535	510	35	390	30	85	140	890	795	735	72	2	48	20	940
700	580	550	35	430	30	100	140	995	900	840	76	2	48	24	1150
800	715	670	35	470	30	120	160	1140	1030	960	79	2	56	24	1550

* face to face dimensions for welded ends are in compliance with flange connections (can be different upon customer's request)

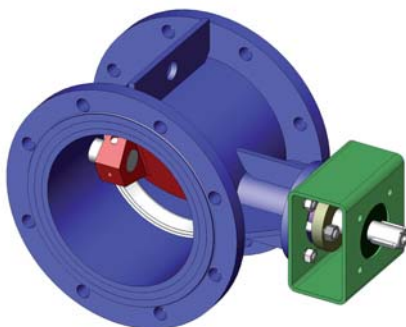
Pipe dimensions $\varnothing D \times t$ ($\varnothing D$ – outside pipe diameter; t – the pipe thickness) for welding are given by customer.



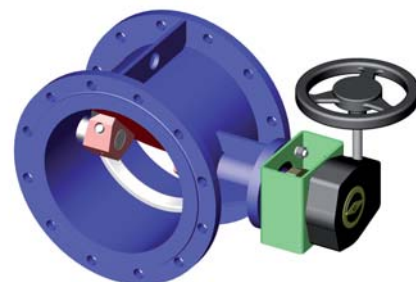
Welded ends with electric actuator



Flanged ends with hydraulic cylinder and lever



Flanged ends with bare shaft

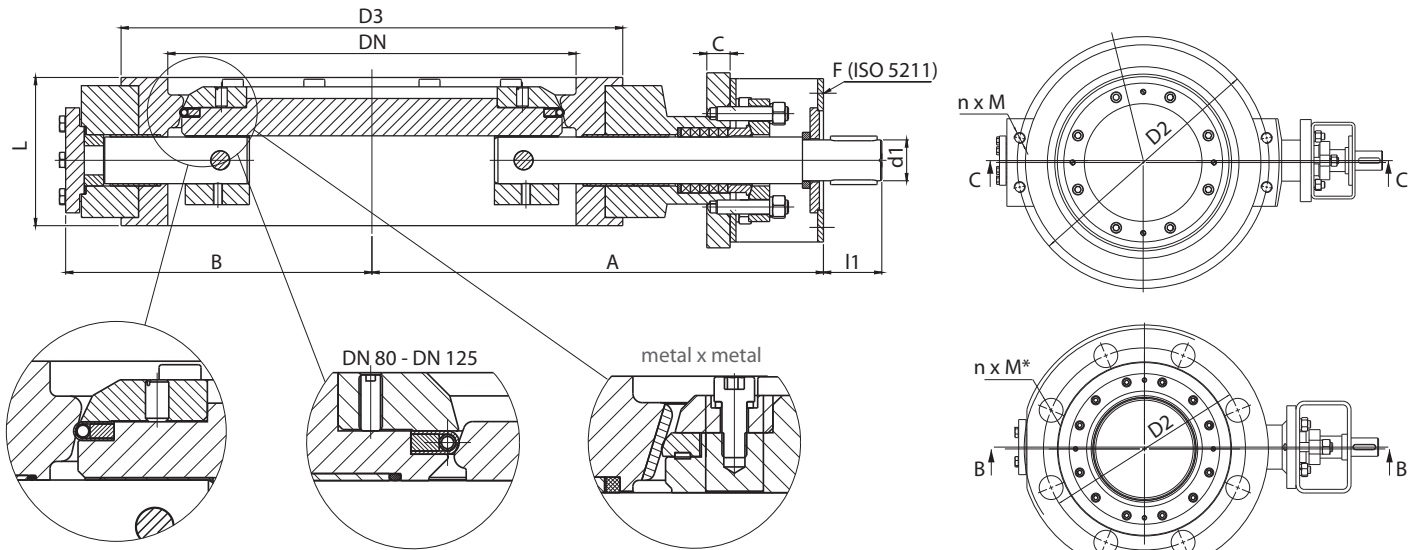


Flanged ends with manual gear-box

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

PN 2,5 - 40 • DN 80 - 2000 • Tmax + 350 °C
 Design: metal x metal seal

Connection: EN 1092-1 WAFER TYPE



PN 2,5

DN	A	B	C	L	F	D2	D3	d1	M	n	l1	kg
1200	1210	800	30	350	25	1320	1280	65	M27	8	110	1050
1400	1180	890	30	390	25	1520	1480	65	M27	8	110	1400
1600	1300	1100	35	440	30	1730	1690	100	M27	8	145	2500
2000	1530	1300	35	540	30	2130	2090	140	M27	8	165	4200

PN 6

DN	A	B	C	L	F	D2	D3	d1	d	M	n	l1	kg
80	190	105	-	64	7	150	128	16	18	M16*	4	30	14
100	200	115	-	64	7	170	148	16	18	M16*	4	30	16
125	235	140	-	70	7	200	178	20	18	M16*	8	30	20
150	253	146	15	76	10	225	202	25	-	-	-	40	53
200	290	200	15	89	10	280	258	25	-	-	-	40	60
250	320	210	20	114	12	335	312	30	-	M16	8	40	64
300	335	230	20	114	12	395	365	30	-	M20	8	50	70
350	360	260	20	127	12	445	415	35	-	M20	8	50	89
400	400	295	20	140	12	495	465	35	-	M20	8	50	110
500	495	355	25	152	14	600	570	40	-	M20	8	70	195
600	550	410	25	178	16	705	670	50	-	M24	8	70	280
700	600	460	25	229	16	810	775	50	-	M24	8	70	390
800	770	530	25	241	16	920	880	50	-	M27	8	85	550
1000	830	660	30	300	25	1120	1080	80	-	M27	8	110	820
1200	920	750	30	350	25	1340	1295	80	-	M30	8	110	1240
1400	1180	890	30	390	30	1560	1510	100	-	M33	8	110	2600
1600	1300	1100	35	440	40	1760	1710	140	-	M33	8	145	3200
2000	1530	1300	50	540	40	2180	2125	160	-	M39 x 3	8	165	4350

* these apply only for lug type connection

Depth of the thread ("M") in the body is corresponds to the thread dimension.

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7

PN 2,5 - 40 • DN 80 - 2000 • Tmax + 350 °C
Design: metal x metal seal

Connection:  EN 1092-1 WAFER TYPE

PN 10

DN	A	B	C	L	F	D2	D3	d1	d	M	n	l1	kg
80	190	105	-	64	7	160	138	16	18	M16*	8	30	16
100	200	115	-	64	7	180	158	16	18	M16*	8	30	18
125	235	140	-	70	7	210	188	20	18	M16*	8	30	22
150	253	146	15	76	10	240	212	25	-	-	-	40	50
200	290	200	15	89	10	295	268	25	-	-	-	40	60
250	320	210	20	114	12	350	320	30	-	M20	8	40	64
300	335	230	20	114	12	400	370	30	-	M20	8	50	68
350	360	260	20	127	12	460	430	35	-	M20	8	50	92
400	400	295	20	140	12	515	482	35	-	M24	8	50	115
500	495	355	25	152	14	620	585	40	-	M24	8	70	200
600	550	410	25	178	16	725	685	50	-	M27	8	85	290
700	620	485	25	229	16	840	800	65	-	M27	8	90	415
800	700	550	25	241	16	950	905	70	-	M30	8	90	640
1000	850	680	30	300	25	1160	1110	80	-	M33	8	110	835
1200	940	760	30	350	25	1380	1330	100	-	M36 x 3	8	140	1260
1400	1300	980	40	390	30	1590	1535	140	-	M39 x 3	8	145	2600
1600	1670	1080	40	440	40	1820	1760	140	-	M45 x 3	8	165	3200
2000	1850	1350	40	540	40	2230	2170	160	-	M45 x 3	8	240	4400

PN 16

DN	A	B	C	L	F	D2	D3	d1	d	M	n	l1	kg
80	190	105	-	64	7	160	138	16	18	M16*	8	30	16
100	200	115	-	64	7	180	158	16	18	M16*	8	30	18
125	235	140	-	70	7	210	188	20	18	M16*	8	30	22
150	253	150	15	76	10	240	212	25	-	-	-	40	50
200	280	190	15	89	10	295	268	25	-	M20	8	40	60
250	320	225	20	114	12	355	320	30	-	M24	8	50	64
300	335	260	20	114	12	410	378	35	-	M24	8	50	72
350	360	295	20	127	12	470	438	40	-	M24	8	50	95
400	455	320	25	140	14	525	490	40	-	M27	8	70	120
500	495	390	25	152	16	650	610	50	-	M30	8	90	215
600	615	460	30	178	25	770	725	65	-	M33	8	90	310
700	640	505	30	229	25	840	795	70	-	M33	8	110	435
800	750	580	30	241	25	950	900	85	-	M36 x 3	8	130	600
1000	860	800	30	300	25	1170	1115	100	-	M39 x 3	8	140	1100
1200	980	890	35	350	30	1390	1330	120	-	M45 x 3	8	160	1325
1400	1300	980	40	390	40	1590	1530	140	-	M45 x 3	8	220	2900
1600	1700	1080	40	440	40	1820	1750	160	-	M52 x 3	8	240	3500

* these apply only for lug type connection

Depth of the thread ("M") in the body is corresponds to the thread dimension.

DOUBLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.7



PN 2,5 - 40 • DN 80 - 2000 • Tmax + 350 °C
Design: metal x metal seal

Connection:  EN 1092-1 WAFER TYPE

PN 25

DN	A	B	C	L	F	D2	D3	d1	d	M	n	l1	kg
80	195	110	-	64	7	160	138	20	18	M16*	8	30	17
100	210	120	-	64	7	190	162	20	22	M20*	8	30	19
125	240	145	-	70	10	220	188	25	26	M24*	8	35	25
150	253	150	15	76	10	250	218	25	-	-	-	50	55
200	290	190	20	89	12	310	278	25	-	M24	8	50	60
250	325	225	20	114	12	370	335	30	-	M27	8	60	65
300	370	260	20	114	12	430	395	35	-	M27	8	70	85
350	445	295	25	127	14	490	450	40	-	M30	8	80	115
400	510	330	25	140	16	550	505	50	-	M33	8	80	170
500	565	395	30	152	25	660	615	55	-	M33	8	110	260
600	630	460	30	178	25	770	720	70	-	M36 x 3	8	110	380
700	690	505	30	229	25	875	820	85	-	M39 x 3	8	130	610
800	805	580	30	241	30	990	930	100	-	M45 x 3	8	140	770
1000	980	800	35	300	30	1210	1140	120	-	M52 x 3	8	160	1390
1200	1170	910	40	350	40	1420	1350	140	-	M52 x 3	8	220	1500
1400	1300	980	40	390	40	1640	1560	160	-	M56 x 3	8	240	3100

PN 40

DN	A	B	C	L	F	D2	D3	d1	d	M	n	l1	kg
80	195	110	-	64	7	160	138	20	18	M16*	8	30	17
100	210	120	-	64	7	190	162	20	22	M20*	8	30	19
125	240	145	-	70	10	220	188	25	26	M24*	8	35	25
150	250	150	20	76	12	250	218	27	-	-	-	45	58
200	250	205	25	89	14	320	285	35	-	M27	8	60	66
250	290	255	25	114	14	385	345	40	-	M30	8	70	74
300	320	280	25	114	14	450	410	40	-	M30	8	100	97
350	380	315	25	127	16	510	465	55	-	M33	8	110	130
400	410	340	30	140	25	585	535	60	-	M36 x 3	8	110	190
500	470	425	30	152	25	670	615	70	-	M39 x 3	8	120	280
600	550	510	35	178	30	795	735	85	-	M45 x 3	8	140	430
700	600	550	35	229	30	900	840	100	-	M45 x 3	8	140	690
800	720	670	35	241	30	1030	960	120	-	M52 x 3	8	160	860

* these apply only for lug type connection

Depth of the thread ("M") in the body is corresponds to the thread dimension.

TRIPLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.8

Application

Triple-eccentric butterfly valves are industrial valves, which designed to fully open or close the passage of the working medium flowing through a pipeline. They can also be used for flow-control purposes. However, a 100% tightness of the valve cannot be guaranteed in a long-term use for control purposes.

Working medium

Waste and service water, hot water and steam, non-aggressive liquids and gases (natural gas, CO-gas, petroleum products, etc.).

A maximum working temperature of the butterfly valve is + 400 °C, by agreement up to + 550 °C and depends on the body material used.

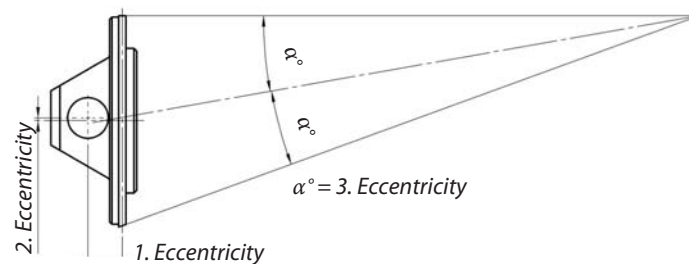
Technical description

Triple eccentricity (Fig. A)

1. the operating shaft axis is eccentric to the packing axis
2. the operating shaft axis is eccentric to the axis of the flow
3. the axis of the seat cone is eccentric to the axis of the flow

Triple eccentricity assures, that the packing stays out of sealing surface of the disc except for the closed position, which results in long life-time of the packing (sealing) and lots of cycles. The triple eccentricity design immediately divides the disc from the sealing surface and when closing the valve the disc touches sealing surface just before closure. By this is the closing and opening torque lower and the opening and closing of the valve is done by very little friction. This makes the valves life-time longer. Butterfly valve is both-side tight. The arrow stamped on the valve body corresponds with the direction of the long-term tightness.

Fig. A



Operation

Manual gear-box, electric actuator, pneumatic or hydraulic actuator, remote control from a stand, lever with a counterweight for closing the valve and hydraulic cylinder for opening the valve.

Testing

The valves are tested according to EN 12 266-1/ISO 5208.

Connection to piping

- wafer type acc. to EN 1092-2,
- face to face dimensions acc. to EN 558-2, Series ANSI

Other face to face and connecting dimensions are acc. to the customer's requirement.

TRIPLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.8

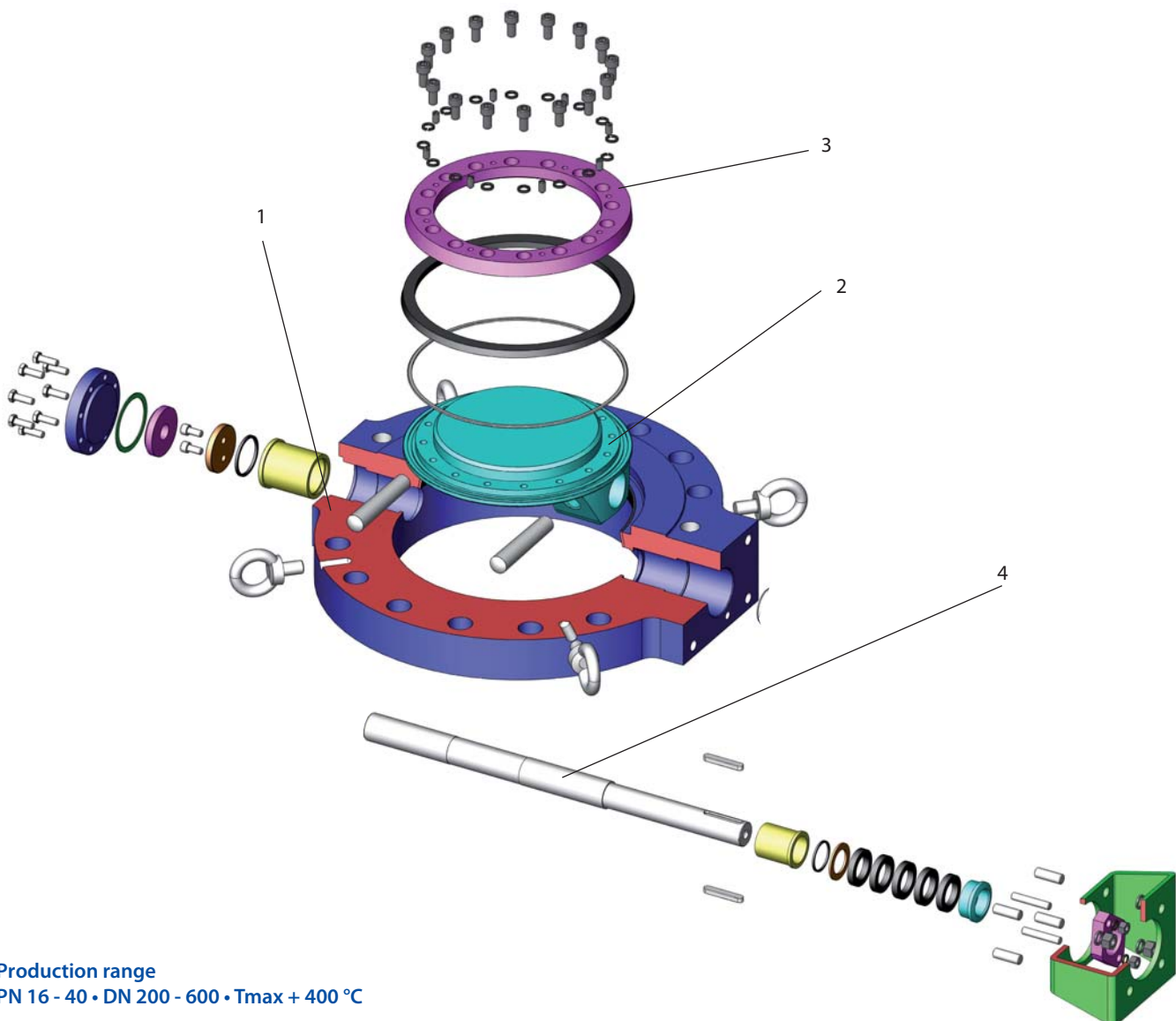
Installation

The butterfly valves can be mounted into horizontal, vertical or inclined pipeline so that the arrow stamped on the valve body corresponds with the direction of the tightness (arrow points from higher pressure to lower when the disc is closed), and the rotating axe of the disc is in a horizontal position. The bolt type at the pivot area is also very important. When there is a butterfly valve with electric actuator it is important to abide the actuator's manufacturer.

Material

Position	Component	Material acc. EN				Material acc. ASTM		
		1.0570	1.0425	1.4541	1.7335	A 105	A182 F316	A182 F12
1	Body	1.0570	1.0425	1.4541	1.7335	A 105	A182 F316	A182 F12
2	Disc	1.0570	1.0425	1.4541	1.7335	A 105	A182 F316	A182 F12
3	Seat	stellite				stellite		
4	Shaft	Steel 13 % Cr1.4541			ASTM A479 XM 19	A182 F6A	A182 F316	ASTM A479 XM 19

For temperatures higher than 400 °C (up to 550 °C) – only after agreement with the manufacturer.



Production range

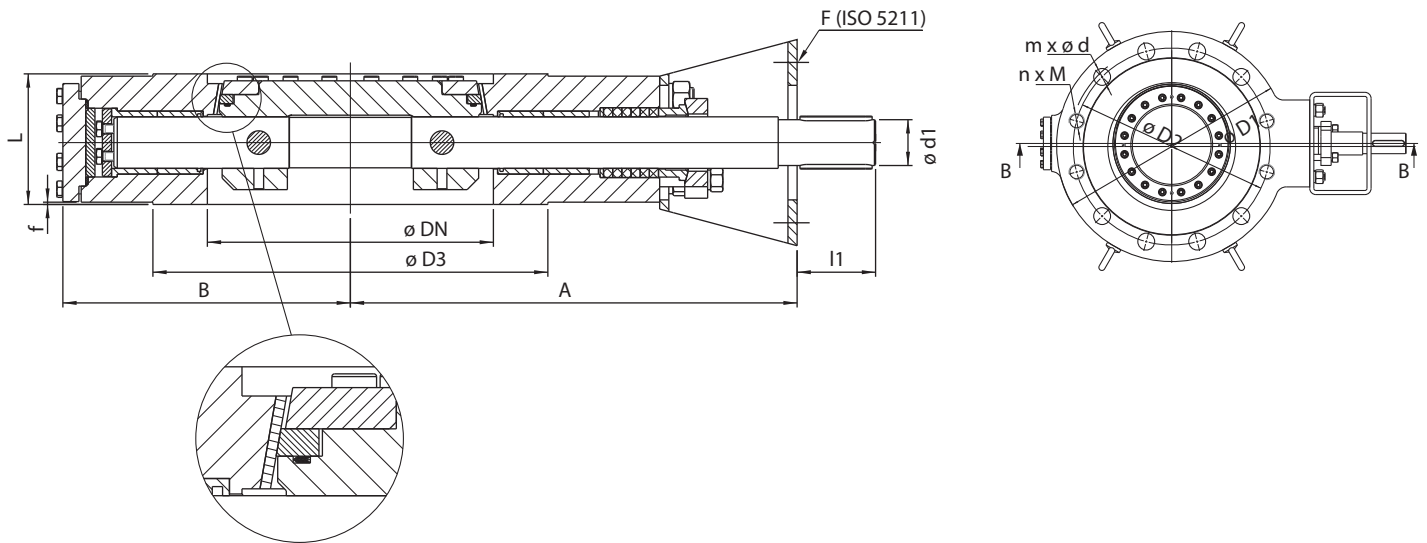
PN 16 - 40 • DN 200 - 600 • Tmax + 400 °C

For lower pressure range – only after agreement with manufacturer.

TRIPLE-ECCENTRIC BUTTERFLY VALVES TYPE L32.8

PN 16 – 40 • DN 200 – 600 • Tmax + 400 °C

Connection: EN 1092-1 WAFER TYPE



PN 16

DN	A	B	L	F	D1	D2	D3	d1	f	M	n	m x ød	l1	kg
200	290	190	89	12	340	295	268	30	2	M20	8	8 x 22	40	76
250	330	210	114	14	405	355	320	35	2	M24	8	8 x 26	60	93
300	345	240	114	14	460	410	378	35	2	M24	8	8 x 26	70	167
350	370	270	127	14	520	470	438	40	2	M24	8	12 x 26	80	196
400	465	330	140	16	580	525	490	50	2	M27	8	12 x 30	80	220
500	505	385	152	16	715	650	610	55	2	M30	8	16 x 33	110	371
600	625	450	178	25	840	770	725	80	2	M33	8	16 x 36	130	440

PN 25

DN	A	B	L	F	D1	D2	D3	d1	f	M	n	m x ød	l1	kg
200	310	205	89	12	360	310	278	30	2	M24	8	8 x 26	50	84
250	345	245	114	14	425	370	335	35	2	M27	8	8 x 30	60	105
300	395	265	114	14	485	430	395	40	2	M27	8	12 x 30	70	184
350	425	300	127	16	555	490	450	50	2	M30	8	12 x 33	80	226
400	460	335	140	16	620	550	505	50	2	M33	8	12 x 36	90	246
500	555	415	152	25	730	660	615	60	2	M33	8	16 x 36	100	390
600	650	480	178	25	845	770	720	80	2	M36	8	16 x 39	130	460

PN 40

DN	A	B	L	F	D1	D2	D3	d1	f	M	n	m x ød	l1	kg
200	350	210	89	14	375	320	285	35	2	M27	8	8 x 30	60	102
250	390	250	114	14	450	385	345	40	2	M30	8	8 x 33	70	124
300	420	290	114	16	515	450	410	50	2	M30	8	12 x 33	80	220
350	530	350	127	25	580	510	465	60	2	M33	8	12 x 36	110	270
400	570	390	140	25	660	585	535	60	2	M36	8	12 x 39	110	290
500	640	470	152	30	755	670	615	80	2	M39	8	16 x 42	130	460
600	790	550	178	30	890	795	735	90	2	M45	8	16 x 48	160	545

BUTTERFLY VALVES

Kv Coefficient

A „Kv 100%“ value represents a flow rate (in m³/h) of density water of 1000 kg/m³ at a pressure drop p of 0,01 MPa for the valve in the „OPEN“ position.

L32.8

DN	Kvs [m ³ /h]	Cv [gall/min]	ζ
	PN 16÷40		
200	1150	1330	1,95
250	2010	2330	1,55
300	3260	3780	1,22
350	4900	5680	1,00
400	6710	7780	0,91
450	8630	10010	0,88
500	10980	12740	0,83
600	16100	18680	0,80

L32.7

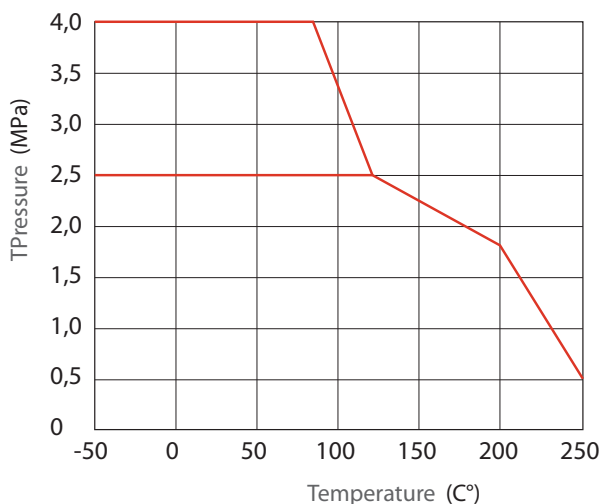
DN	NPS	Kvs [m ³ /h]			ζ			Cv [gall/min]	
		PN 6÷16	PN 25	PN 40	PN 6÷16	PN 25	PN 40	PN 6	PN 25
150	6"	1170	1160	650	0,58	0,59	1,90	1360	1350
200	8"	2320	2140	1310	0,47	0,55	1,50	2690	2480
250	10"	3920	3620	2190	0,40	0,47	1,30	4550	4200
300	12"	6130	5510	3430	0,34	0,42	1,10	7110	6390
350	14"	8880	8220	4900	0,30	0,35	1,00	10300	9540
400	16"	11800	10900	6700	0,29	0,34	0,92	13690	12640
500	20"	19500	18100	11300	0,26	0,30	0,78	22620	21000
600	24"	28600	27000	17300	0,25	0,28	0,69	33180	31320
700	28"	39700	37400	24900	0,24	0,27	0,62	46050	43380
800	32"	54100	48900	34200	0,22	0,27	0,56	62760	56720
1000	40"	84600	82700	-	0,22	0,23	-	98140	95900
1200	48"	121800	119200	-	0,22	0,23	-	141300	138300
1400	56"	169700	162200	-	0,21	0,23	-	196900	-
1600	64"	227200	-	-	0,20	-	-	263600	-
2000	80"	354900	-	-	0,20	-	-	411700	-

Flow coefficient - Kvs

Loss coefficient - ζ

Coefficients - Cv

Maximum working pressure/temperature diagram for L32.7



(DN 300 PN 25) / Relative flow characteristics

