



Range DN: 32 ~ 2000
NPS: 1 1/4" ~ 80"



PED 97/23/EC
PED 2014/68/EU



TR TS 10/11,
12/11, 32/11



Range PN: 6 ~ 16
Class: 150

Operating temperature: Depending on the sealing material

Connection into piping: Flanged, WAFER type, LUG type



DESCRIPTION

L32.1(centric) butterfly valves are controlled shut-off valves. They are designed to stop or allow the flow of the medium by external operation, via either the handwheel or the installed drive. The medium can flow in one direction only. These butterfly valves are designed and manufactured to ensure maximum service life and reliability. .

MATERIAL SPECIFICATION

L32.1 butterfly valves are made from carbon ,alloyed and stainless steels. The material type can be adjusted according to the customer's request to optimally suit the operating conditions

APPLICATION

L32.1 butterfly valves are suitable for various liquids, gases and steam.

BASIC STANDARDS FOR DESIGN

Basic design

API 609, MSS SP 67, EN 593

Pressure-temperature rating

ASME B16.34, EN 12 516 - 1

Testing

API 598 EN 12 266 - 1, 2

Face-to-face dimensions

EN 558

Dimensions of the welded ends

ANSI B16.25, EN 12 627

Top Flange dimensions

EN ISO 5211

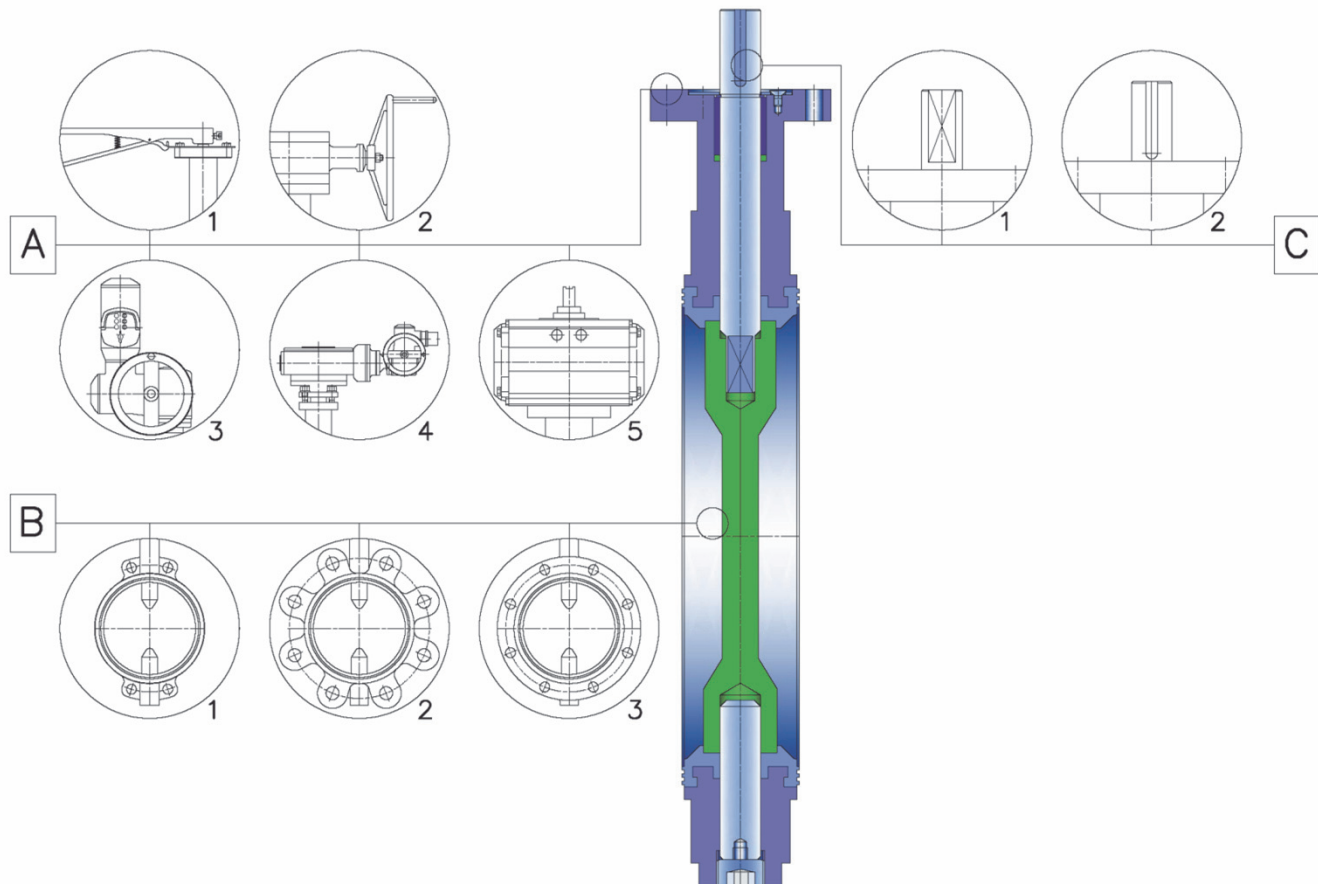
Flange dimensions

ANSI B 16.5, EN 1759 - 1,
EN1092 - 1

Special

NACE MR-0175

STRUCTURAL DESIGN



A - Control

- by hand lever for DN 40 up to DN 300
- by hand gear-box for DN 250 up to DN 2000
- by electric actuator
- by electric actuator with gear-box
- by pneumatic actuator

B - Execution

- Wafer type
- Lug type
- Flanged type "U"

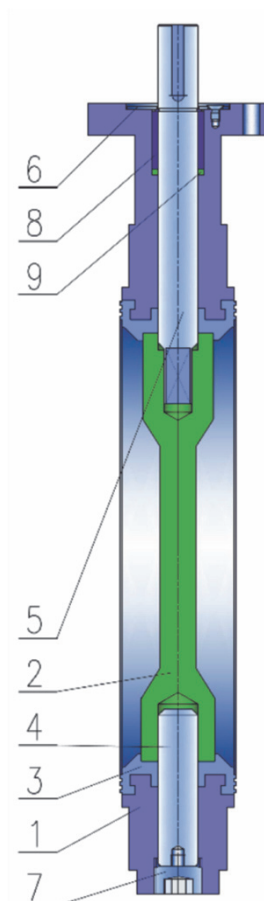
C - Stem execution

- the upper stem with 2 contact surfaces for valves up to DN 200 inclusive
- the upper stem with feather for valves DN 250 and above

ADVANTAGES OF THESE PRODUCTS

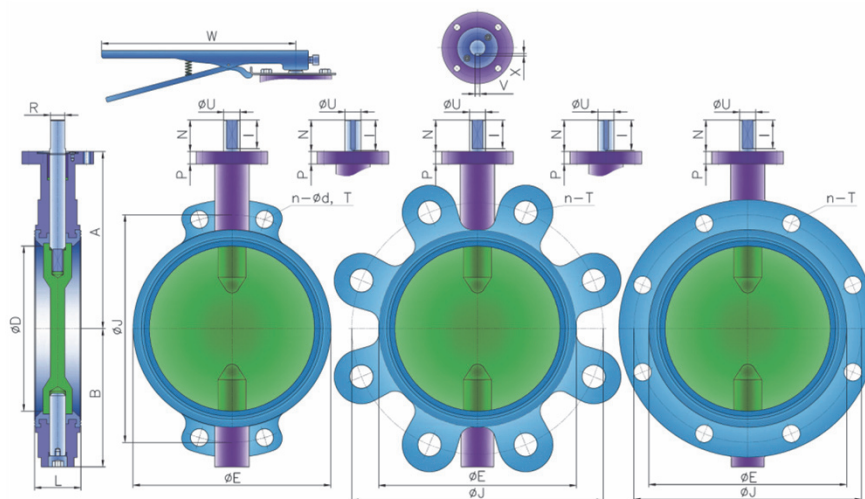
- Excellent both-sides tightness of the closure
- Cheap option in comparison with gate, ball or globe valve
- Very good corrosion resistance, body and stems are not in the contact with working medium
- Outside surface protection secured by epoxy paint coating
- Self-centering of the disc due to its floating embedding
- No need for flange gaskets for installation, their function is replaced by the seat
- Low weight
- Anti blow out stem-upper control stem is secured against forcing out the body by means of thrust collar
- Easy replaceable seat without need of any special tools
- Easy installation of each type of actuators
- Wide range of material executions suitable for various working conditions
- Self cleaning function
- Low pressure drop and small turbulence of the flow
- Possibility of regulation of the flow

MATERIAL SPECIFICATION



Pos.	Designation	Material		
		EN	ČSN	ASTM
1.	Body	EN-JL 1020 EN-JL 1040 EN-JS 1030 1.0619 (P240GH) 1.4308 (GX5CrNi19-10) 1.4408 (GX5CrNiMo19-11-2)	42 2415 42 2425 42 2304 42 2643 42 2930 42 2940	A 48 A 278 No. 35 A 536 60-40-18 A 216 WCB A 351 CF8 A351 CF8 M B 275 B148 Cl.9D
2.	Disc	EN-JS 1030 EN-JS 1030 1.4308 (GX5CrNi19-10) 1.4408 (GX5CrNiMo 19-11-2)	42 2304 42 2305 42 2930 42 2940	A 536 60-40-18 A 536 65-45-12 A 351 CF8 A 351 CF8M BS 1400 AB1, AB2
3.	Seat-Cuff	EPDM (-35°C ~ +120°C) NBR (-20°C ~ +90°C) WMQ (-20°C ~ +160°C) VITON (-10°C ~ +160°C) TFE (-35°C ~ +160°C) CR (-35°C ~ 90°C)		
4.	Control Upper Stem	1.4301 (X5CrNi18-10) 1.4542 (X5CrNiCuNb 16-4) 1.4005 (X10Cr13)	41 7240 X5CrNiCuNb 16-4 17 021 (41 7021)	A 479 TYPE 304 A 564 TYPE 630 410
5.	Bottom Stem	1.4301 (X5CrNi18-10) 1.4542 (X5CrNiCuNb 16-4) 1.4005 (X10Cr13)	41 7240 X5CrNiCuNb 16-4 17 021 (41 7021)	A 479 TYPE 304 A 564 TYPE 630 410
6.	Retainer Plate	Silicon iron		
7.	Plug	Silicon iron		
8.	Bushing	DELTRIN		
9.	Seal	NBR VITON		

DIMENSIONS



WAFER TYPE

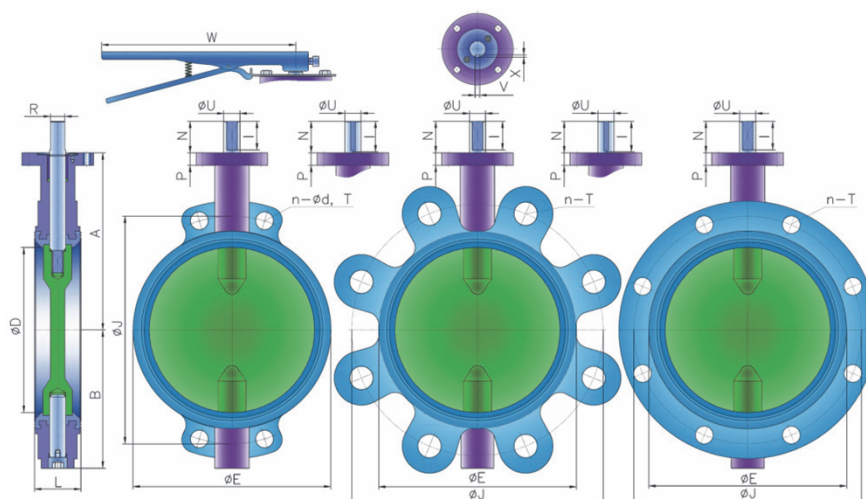
LUG TYPE

U TYPE

Diameter		Ø D	L	A	B	Ø E	P	Control Stem							Top flange ISO 5211	W	Weight(KG)		
NPS	DN							Ø U	N	L	R	X	V	Key			Type of valve		
																	„WA FER “	„LU G“	„U“
1 1/4	32	32	33	87	46	---	10	11	33	30	9,5	-	-	-	F05	230	2,5	3,2	4
1 1/2	40	40	40	120	60	85	10	14	33	30	9,5	-	-	-	F07	265	2,7	3,7	6
2	50	50	43	130	75	92	11	14	33	30	9,5	-	-	-	F07	265	2,9	4,2	6,5
2 1/2	65	63	46	137	80	107	11	14	33	30	9,5	-	-	-	F07	265	4,1	5,7	9
3	80	77	46	156	95	122	11	16	33	30	11,8	-	-	-	F07	265	4,4	8,7	10
4	100	100	52	170	110	150	11	16	33	30	11,8	-	-	-	F07	265	4,7	9,2	14
5	125	125	56	185	123	179	12	19	33	30	14,5	-	-	-	F07	265	6,3	12,7	16,5
6	150	147	56	203	143	206	12	19	33	30	14,5	-	-	-	F07	265	7,9	13,7	19
8	200	198	60	238	168	257	13	19	33	30	14,5	-	-	-	F07	315	12,3	22	32
10	250	245	68	270	203	316	15	22	65	60	-	4	8	8 x 7	F10	450	19,2	28	46
12	300	295	78	310	242	370	15	28	65	60	-	4	8	8 x 7	F10	450	30,2	45	58
14	350	332	78	330	280	410	17	28	65	60	-	4	8	8 x 7	F10	-	55	74	94
16	400	384	102	375	320	468	20	38	75	70	-	5	12	12 x 8	F14	-	80	113	130
18	450	434	114	400	350	527	20	38	75	70	-	5	12	12 x 8	F14	-	110	145	160

Diameter		PN 6					PN 10				PN 16			
NPS	DN	Ø J	n	Ø d	T	Ø J	n	Ø d	T	Ø J	n	Ø d	T	
1 1/4	32	90	4	14	M12	100	4	19	M16	100	4	19	M16	
1 1/2	40	100	4	14	M12	110	4	19	M16	110	4	19	M16	
2	50	110	4	14	M12	125	4	19	M16	125	4	19	M16	
2 1/2	65	130	4	14	M12	145	4	19	M16	145	4	19	M16	
3	80	150	4	19	M16	160	8	19	M16	160	8	19	M16	
4	100	170	4	19	M16	180	8	19	M16	180	8	19	M16	
5	125	200	8	19	M16	210	8	19	M16	210	8	19	M16	
6	150	225	8	19	M16	240	8	23	M20	240	8	23	M20	
8	200	280	8	19	M16	295	8	23	M20	295	12	23	M20	
10	250	335	12	19	M16	350	12	23	M20	355	12	28	M24	
12	300	395	12	23	M20	400	12	23	M20	410	12	28	M24	
14	350	445	12	23	M20	460	16	23	M20	470	16	28	M24	
16	400	495	16	23	M20	515	16	28	M24	525	16	31	M27	
18	450	550	16	23	M20	565	20	28	M24	585	20	31	M27	

DIMENSIONS



WAFER TYPE

LUG TYPE

U TYPE

Diameter		Ø D	L	A	B	Ø E	P	Control Stem						Top flange ISO 5211	Weight(KG)		
NPS	DN							Ø U	N	L	X	V	Key		Type of valve		
															„WAFER“	„LUG“	„U“
20	500	487	127	440	380	578	22	40	100	90	5,5	14	14 x 9	F16	145	215	215
22	550	530	142	475	410	636	22	45	100	90	5,5	14	14 x 9	F16	200	275	280
24	600	575	154	510	440	680	22	50	100	90	5,5	14	14 x 9	F16	235	345	335
26	650	625	165	530	455	735	28	50	100	90	5,5	14	14 x 9	F16	310	430	420
28	700	673	165	580	480	785	30	55	100	90	5,5	14	14 x 9	F16	330	475	470
30	750	731	192	585	535	845	30	60	140	100	7,5	20	20 x 12	F25	385	610	585
32	800	767	190	630	570	895	35	75	140	130	7,5	20	20 x 12	F25	460	715	700
34	850	824	200	660	620	945	38	75	140	130	7,5	20	20 x 12	F25	565	760	745
36	900	860	203	700	670	1000	38	75	140	130	7,5	20	20 x 12	F25	630	830	810
40	1000	970	216	750	725	1095	38	90	140	130	9,0	25	25 x 14	F25	825	990	960
42	1050	1010	216	820	750	1154	40	90	140	130	9,0	25	25 x 14	F25	860	1215	1000
48	1200	1173	254	900	860	1310	45	90	140	130	9,0	25	25 x 14	F25	910	1450	1265
56	1400	1386	330	1000	949	1540	50	130	160	150	11,1	32	32 x 18	F 35	-	1928	1742
64	1600	1586	360	1150	1120	1754	50	140	160	150	12,3	36	36 x 20	F 35	-	1983	1806
72	1800	1776	360	1270	1221	1982	55	160	180	170	13,5	40	40 x 22	F 35	-	2612	2374
80	2000	1976	520	1425	1437	2210	60	180	200	190	15,3	45	45 x 25	F 40	-	3822	3560

Diameter		PN 6					PN 10				PN 16			
NPS	DN	Ø J	n	Ø d	T	Ø J	n	Ø d	T	Ø J	n	Ø d	T	
20	500	600	20	22	M20	620	20	28	M24	650	20	33	M30	
24	600	705	20	26	M24	725	20	30	M27	770	20	36	M33	
28	700	810	24	26	M24	840	24	30	M27	840	24	36	M33	
32	800	920	24	30	M27	950	24	33	M30	950	24	39	M36	
36	900	1020	24	36	M27	1050	28	33	M30	1050	28	39	M36	
40	1000	1120	28	30	M27	1160	28	36	M33	1170	28	42	M39	
48	1200	1340	32	33	M30	1380	32	39	M36	1390	32	48	M45	
56	1400	1560	36	36	M33	1590	36	42	M39	1590	36	48	M45	
64	1600	1760	40	36	M33	1820	40	48	M45	1820	40	56	M52	
72	1800	1970	44	39	M36	2020	44	48	M45	2020	44	56	M52	
80	2000	2180	48	42	M39	2230	48	48	M45	2230	48	62	M56	

TYPE DESIGNATION

L32.1 C E M₁/M₂ - PN or Class

C	CONNECTION INTO PIPE	E	CONTROL	M ₁	MATERIAL OF BODY AND DISC
1	Flanged type "U"	1	Hand lever	0	Stainless steel
0L	„Lug“ type	2	Gearbox + hand wheel	1	Modular cast iron
0W	„Wafer“ type	3	Electric actuator	1Ni	Modular cast iron with Ni surface
		4	Gearbox + electric actuator	2	Cast alloy steel
		5	Pneumatic actuator	5	Cast carbon steel
		6	Hydraulic actuator	LT	Carbon steel for low temperatures
		9	Without control	6	Grey and malleable cast iron

M ₂	SEAT CUP MATERIAL
E	EPDM
N	NBR
HN	HNBR
P	CR
S	WMQ
T	PTFE
V	VITON

