

Serie J9.000



GJL 250 Wafer leptir ventili
GJL 250 Wafer butterfly valve

DOWNLOAD
DATASHEET



b-Smart, Be-Brandoni



brandoni
VALVES

www.brandonivalves.com

J9,000_06/07/2018

Ventili serije Jg su leptirasti zaporni ventili sa centriranim diskom tipa wafer od sivog livenog gvožđa, izrađeni u skladu sa odgovarajućim standardima i EN ISO 9001 sistemom upravljanja kvaliteta. Pogodni su za grejanje i klimatizaciju (HVAC), prečišćavanje i distribuciju vode, industrijsku i upotrebu u poljoprivredi. (Podložno ispravnom izboru na osnovu aplikacije)

Prikladni su: za linijsku ugradnju s čestim pokretanjem; integrisana podrška, u skladu sa ISO 5211, omogućava jednostavno montiranje širokog spektra pokretača i pogona. Pogodni su kod zagušenja i regulacije protoka.

Nisu pogodni: za paru.

Dodaci

- Produžetak za priključak na glavni vodovodni sistem
- Pokazivač položaja i zaključavanje za ručni reduktor
- Mikroprekidač za ručni reduktor
- Kit: mikroprekidač za indikator položaja otvoreno/zatvoreno

Pogoni

- Pneumatski pogon sa dvostrukim i jednostrukim dejstvom
- Na zahtev: mikroprekidač i indikator položaja
- Električni pogon
- Ručni reduktori
- Upravljanje lancem

Sertifikati / Certifications



U skladu sa direktivom 2014/68/UE (ex 97/23/CE PED)

In conformity with directive 2014/68/UE (ex 97/23/CE PED)

Standardi konstrukcije i ispitivanja (ekvivalentni):

Mere: EN558/1-20 (ISO 5752-20, DIN 3202K1)
 Prirubnice: EN1092, ANSI B16.5 #150
 Dizajn: EN593, EN12516, ISO 5211, EN12570
 Obeležavnje: EN19
 Ispitivanje: ispitane 100% EN 12266 cat. A (ISO 5208 cat. A)

Norme costruttive e di collaudo (equivalenti):

Scartamento: EN558/1-20 (ISO 5752-20, DIN 3202K1)
 Flange: EN1092, ANSI B16.5 #150
 Design: EN593, EN12516, ISO 5211, EN12570
 Marcatura: EN19
 Collaudo: testate al 100% EN 12266 cat. A (ISO 5208 cat. A)

The shut-off wafer butterfly valves in Series Jg are equipped with a centred disc and wafer type body, and are made of cast iron, manufactured in accordance with severe product norms and in conformity to EN ISO 9001.

These valves are suitable for heating and conditioning (HVAC), water treatment and water distribution, industrial applications, agricultural purposes. (Please ensure the choice of the corresponding item)

YES: *for in line installation with frequent actuation; the integrated support, in accordance with ISO 5211, allows easy mounting of a wide range of actuators and drives.*

They are suitable for choking and regulating the flow.

NO: *for steam.*

Accessories

- Extension for main water system connection
- Position indicator and padlocking for gear box
- Micro-switch for gear box
- Kit: micro-switches for ON/OFF position indicator

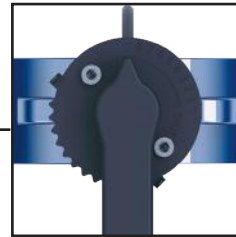
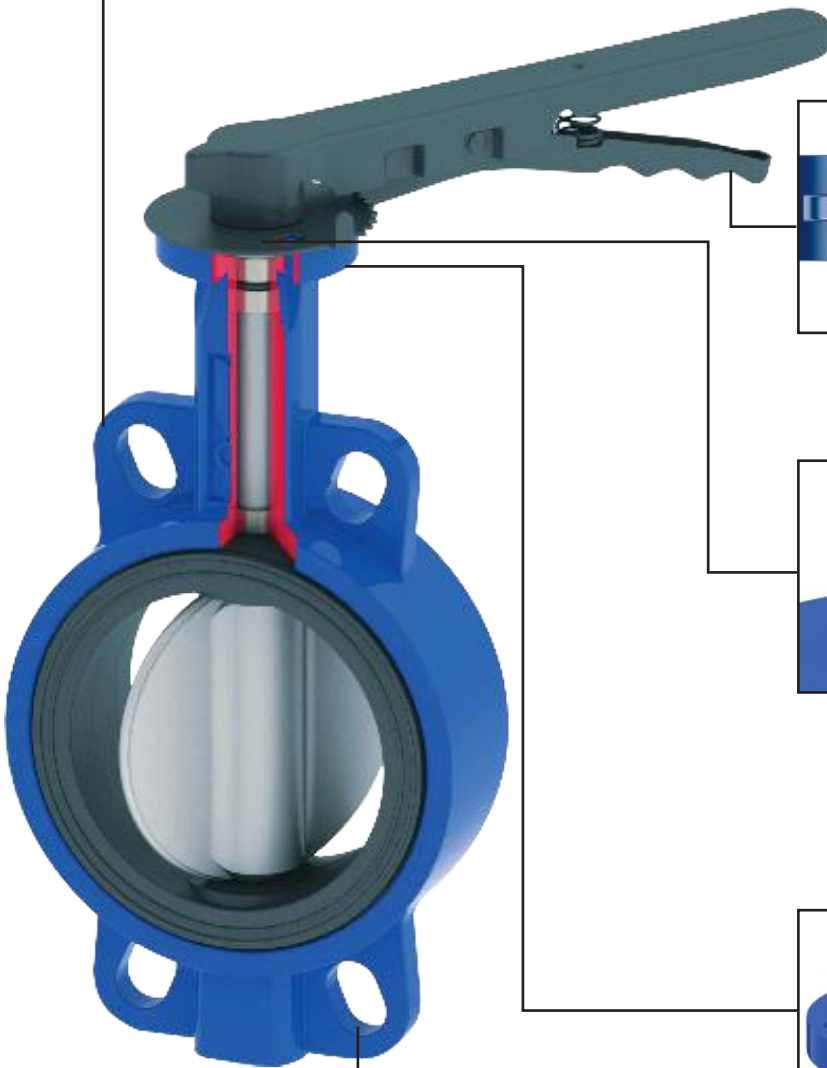
Actuators

- Double acting and single acting pneumatic actuators
- On request: micro-switches, position indicators
- Electric actuators
- Gear box
- Chain driven control



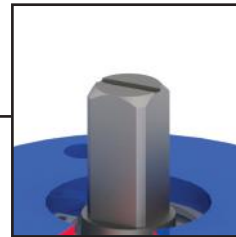
Unutrašnje i spoljno bojenje epoksidnim prahom, otpornim na visoke temperature. Boja na vodenoj bazi sa malim ekološkim uticajem. Debljina 150 μ .

Inside and outside epoxy coating, high temperature resistant. Environmentally friendly, water-based paint. 150 μ thickness.



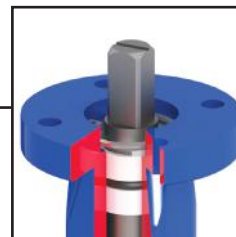
Ručica podesiva u bilo kom položaju.

Lever suitable for intermediate regulation.



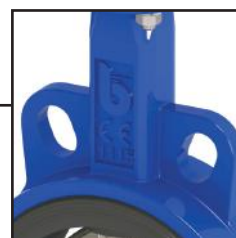
Zarez na vrhu vretena pokazuje položaj diska i sprečava greške u slučaju rastavljanja i ponovnog stavljanja ručice ili pogona.

A notch machined at the top of the stem indicates the position of the disc and allows adjusting the lever/actuator to the correct position, when the command/lever is removed.



Prirubnica u skladu sa ISO 5211 integrisana.

Integrated ISO 5211 flange.



Prorezi za centriranje. Dozvoljavaju ugradnju između prirubnica PN 6, PN10, PN16 e ANSI 150.

Alignment holes. Suitable for mounting between PN6, PN10, PN16 and ANSI 150.

GJL 250 Wafer leptir ventili / GJL 250 Wafer butterfly valve

EPDM

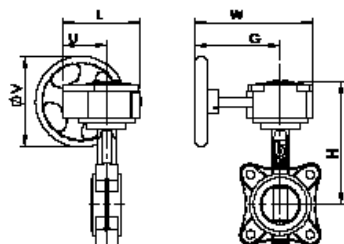


Jg.000

Telo: EN GJL 250
Disk: EN GJS400 nichelato
Sedište - zaptivanje: EPDM
Temp: od -10 do +120°C

Body: EN GJL 250
Disc: EN GJS400 nickel plated
Liner: EPDM
Temp: -10 a +120°C

Pogoni i dodaci / Actuators and accessories

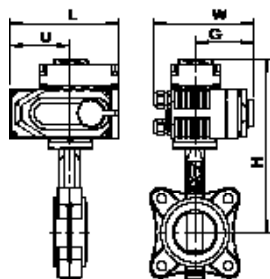


Jg + RM

Manualni reduktor

Gear box

DN	25	32	40	50	65	80	100	125	150	200	250	300
Jg + RM	RM.0250	RM.0250	RM.0250	RM.0250	RM.0250	RM.0250	RM.0250	RM.0250	RM.0250	RM.0750	RM.1200	RM.1200
L	130	130	130	130	130	130	130	130	130	180	205	205
U	77	77	77	77	77	77	77	77	77	104	124	124
H	166	172	178	188	198	212	232	242	262	308	346	372
W	225	225	225	225	225	225	225	225	225	338	345	345
G	170	170	170	170	170	170	170	170	170	260	260	260
V	150	150	150	150	150	150	150	150	150	300	300	300
Težina / Weight Kg	5.7	5.7	5.8	6.1	6.4	7.02	8.12	9.61	11.11	22.3	32.8	42

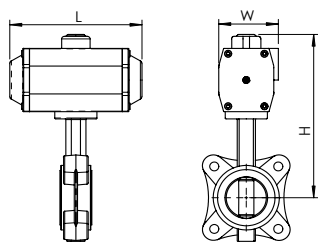


Jg + AOX

Električni pogon

Electric actuators

DN	25	32	40	50	65	80	100	125	150	200	250	300
Jg + AOX	003	003	003	003	005	005	008	010	015	030	060	060
L	123	123	123	123	160	160	160	189	189	268	268	268
U	74	74	74	74	89	89	89	107	107	152	152	152
H	217	223	229	239	257	271	291	309	329	394	430	456
W	100	100	100	100	121	121	121	145	145	225	225	225
G	65	65	65	65	84	84	84	89	89	119	119	119
Težina / Weight Kg	3.8	3.8	3.9	4.2	6	6.8	7.9	10.9	12.4	28.4	37.3	43.7

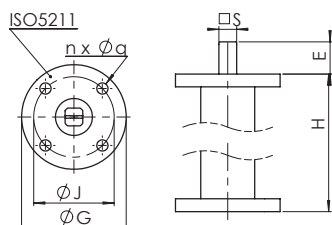


Jg + AP

Pneumatski pogon

Pneumatic actuator

DN	40	50	65	80	100	125	150	200	250	300
Jg + AP DE	AP2	AP2	AP3	AP3	AP3	AP3.5	AP4	AP4.5	AP5.5	AP5.5
L	155	155	213	213	213	236	276	310	388	388
H	219	229	256	270	290	310	345	402	472	498
W	73	73	85	85	85	98	110	128	160	160
Težina / Weight Kg	3.22	3.52	4.94	5.74	6.84	9.98	12.9	23.24	37.44	55.94
Jg + AP SE - SPRING RETURN	AP3S	AP3S	AP3.5S	AP3.5S	AP4S	AP4.5S	AP5S	AP6S	AP6S	AP6S
L	213	213	236	236	276	310	366	468	563	563
H	236	246	316	330	365	412	445	520	646	672
W	85	85	98	98	110	128	140	175	215	215
Težina / Weight Kg	4.9	5.2	6.7	7.5	10.5	15.97	20.42	38.86	68.32	86.82

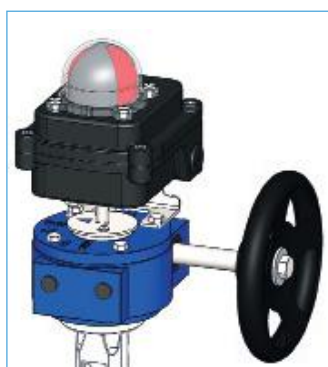


KPROg

Produžetak za za priključak na glavni vodovodni sistem

Stem extension for water main system connection

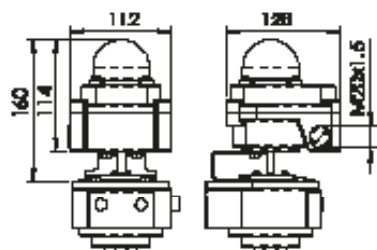
DN	40-100	125-150	200	250-300
H	250-500-800-1000			
ISO 5211	F05	F07	F10	F12
G	65	90	125	150
J	50	F07	F10	F12
n x Ø q	4 x 7	4 x 9	4 x 11	4 x 13
E	20	26	26	26
S	11	14	17	27



KBOXRM

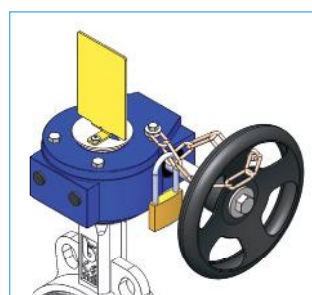
Kutija sa graničnim prekidačem za ručni reduktor.

Limit switches box for gear box



Standardna verzija sa mehaničkim prekidačem. Dostupno na zahtev: blizinski prekidač, i verzija ATEKS

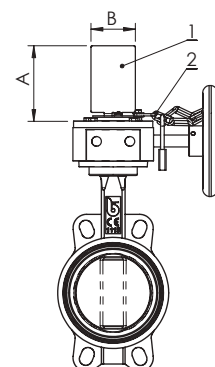
Mechanical switches per standard. Available on request: proximity switches, ATEX explosion proof proximity switches.



KPOSRM

Indikator položaja i katanac za zaključavanje reduktora

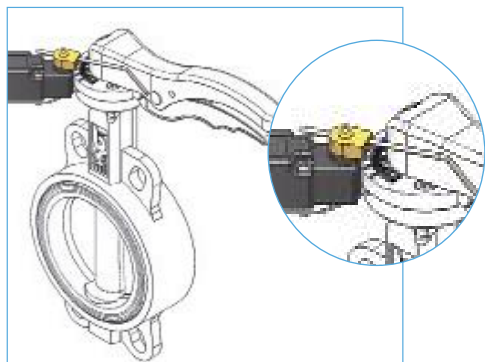
Position indicator and padlocking for gear box



DN	25-150	200-400
A	100	120
B	60	80

1) Vizuelni indikator položaja
2) Lanac za katanac

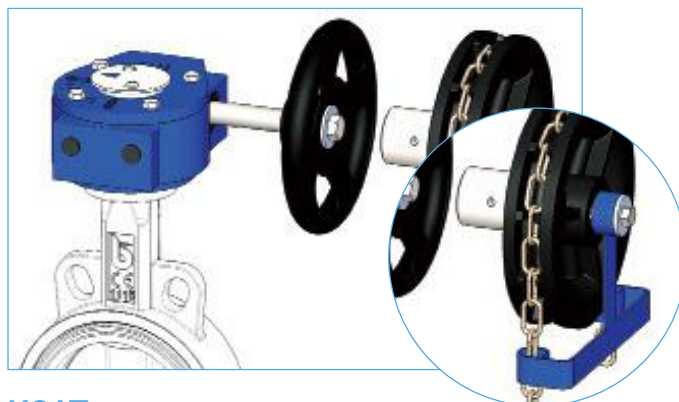
1) Position indicator
2) Chain for padlocking



KFC109 - KFC209

Komplet - prekidač graničnog položaja za signaliziranje otvoreno / zatvoreno

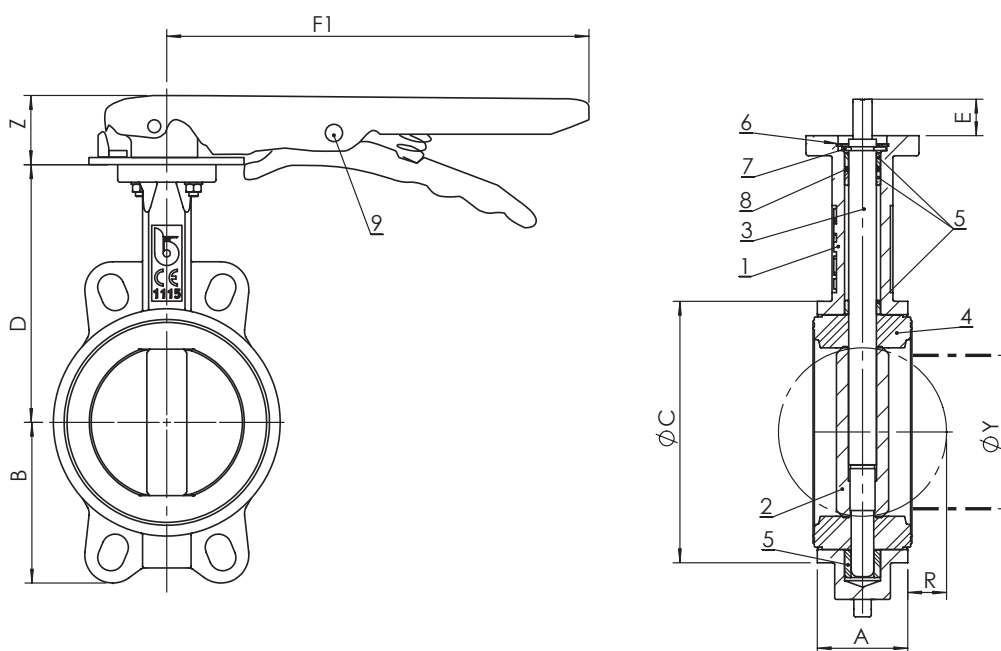
Limit switches kit for ON-OFF indication



KCAT

Lančani pogon

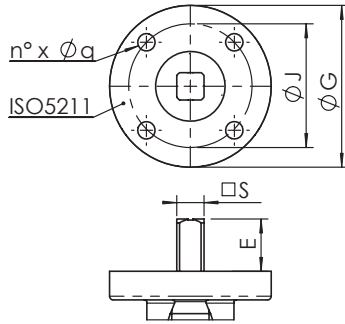
Chain driver kit



Dimenzije (mm) / Dimensions (mm)

DN	40	50	65	80	100	125	150	200	250	300
A	33	43	46	46	52	56	56	60	68	78
ØC	82	89	102	118	150	174	205	260	318	376
D	116	126	136	150	170	180	200	230	266	292
B	63	62	69	90	106	119	131	166	202	235
F1	193	193	193	216	216	250	250	350	375	-
Z	27	27	27	27	27	27	27	31	30	-
R	5	5	9	17	26	34	50	71	91	112
ØY min cevi / min pipe	27	31	45	65	90	110	146	194	241	291

NAPOMENA: DN 300 se isporučuje sa MANUELNIM REDUKTOROM/
NOTE: DN 300 will be supplied with MANUAL REDUCER



DN	40	50	65	80	100	125	150	200	250	300
ISO 5211	F05	F05	F05	F05	F05	F07	F07	F10	F12	F12
G	65	65	65	65	65	90	90	125	150	150
J	50	50	50	50	50	70	70	102	125	125
n x q	4 x 7	4 x 7	4 x 7	4 x 7	4 x 7	4 x 9	4 x 9	4 x 11	4 x 13	4 x 13
S	9	9	9	11	11	14	14	17	27	27
E	21	21	21	21	21	27	27	27	27	27

1: pogledajte i "Uputstva i upozorenja" / 1: please see Instruction and Recommendations

Težine (kg) / Weight (kg)

DN	40	50	65	80	100	125	150	200	250	300
Sa ručicom - with lever	1,8	2,1	2,4	3,2	4,3	6,3	7,8	15,0	23,5	42

NAPOMENA: DN 300 se isporučuje sa MANUELNIM REDUKTOROM/

NOTE: DN 300 will be supplied with MANUAL REDUCER

Radni obrtni moment (Nm) / Operating torque (Nm)

DP bar										
3	7,8	11,3	17	23	33	48	68	120	189	290
6	8,4	12	18	25	36	54	78	134	212	316
10	8,8	13	20	26	40	61	88	148	234	342
16	9,2	13	21	28	44	68	99	162	257	367

N.B. Da bi se izabrao odgovarajući pogon, preporučuje se da se vrednost obrtnog momenta pomnoži sa sigurnosnim faktorom K=1,5

N.B.: In order to choose the right actuator, we recommend multiplying the operating torque figure by a safety coefficient, K=1.5

Minimalni prečnik cevi Y / Minimum pipe diameter Y

Da biste osigurali potpuno otvaranje diska, proverite da li unutrašnji prečnik cevi prelazi sledeće vrednosti:

To ensure complete disc opening, make sure that the inner diameter of the pipe exceeds the following values

DN	40	50	65	80	100	125	150	200	250	300
	27	31	45	65	90	110	146	194	241	291

Tabela prirubnica / Flange chart Per montaggio tra flange/For mounting between flanges

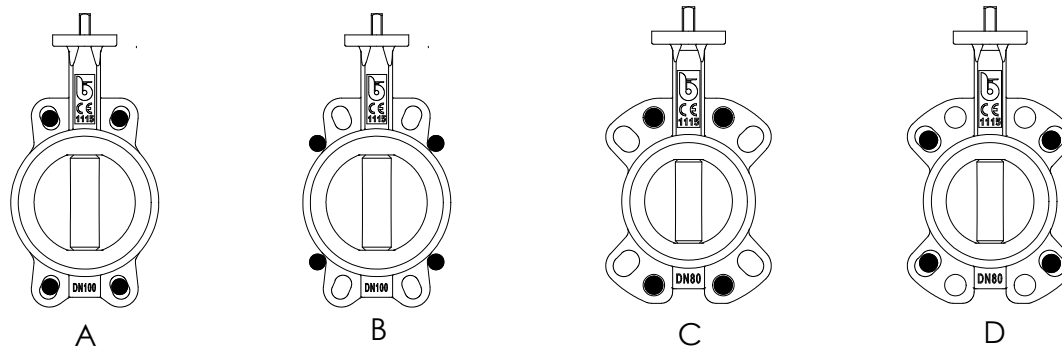
	40	50	65	80(1)	100	125	150	200	250	300
PN6 EN1092	v (A)	v (A)	v (A)	v (D)	v (B)	v (A)	v (A)	v (A)	v (A)	v (A)
PN10 EN1092	v (A)	v (A)	v (A)	v (C)	v (A)	v (A)	v (A)	v (A)	v (A)	v (A)
PN16 EN1092	v (A)	v (A)	v (A)	v (C)	v (A)	v (A)	v (A)	v (A)	v (A)	v (A)
#150 ANSI B16.5	v (A)	v (A)	v (A)	v (D)	v (A)	v (A)	v (A)	v (A)	v (A)	v (A)

X: montiranje nije moguće / mounting not allowed

V: montiranje moguće / mounting allowed

A, B, C, D: raspored vijaka l / Bolt arrangement

(1): za DN80 PN10-16 sa 4 otvora vidi raspored vijaka D / for DN80 PN10-16 with 4 holes see bolt arrangement D



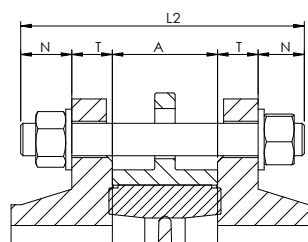
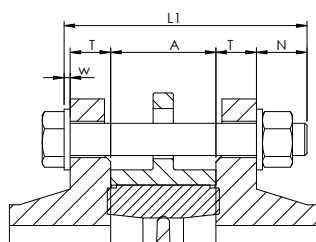
Proračun dužine vijaka / Bolt length calculation

Montaža sa vijcima / Mounting with screws

Montaža sa navojnom šipkom / Mounting with tie-rods

$$L1 \geq A + 2T + w + N$$

$$L2 \geq A + 2T + 2N$$



DN	40	50	65	80(1)	100	125	150	200	250	300
A	33	43	46	46	52	56	56	60	68	78
N*	24	24	24	24	24	26	26	26	32	32

T = debljina prirubnice (prirubnica klijenta)

w = debljina podloške ispod glave vijka

T = flange thickness (customer)

w = thickness of washer at the screw head

* Maksimalno između EN1092 PN6/10/16 i ANSI 150 / Max among: EN1092 PN6/10/16 and ANSI 150.

** Ne isporučujemo vijke / We do not supply the bolting.

Preporuka za prirubnice / Recommended flange types

Standard / Norms	Tip / Type	
EN 1092-1 PN6/10/16	Tip / Type 11	Prirubnice sa grlom / weld neck
	Tip / Type 21	Integralne / integral
	Tip / Type 02 + 35	Sa grlom za zavarivanje / loose plate with weld ring neck
	Tip / Type 02 + 36	Sa utisnutim grlom / loose plate with pressed collar
	Tip / Type 04 + 34	Sa grlom za zavarivanje / loose plate with weld neck collar
ANSI B16.1#150° ANSI B16.5#150°		Ravno lice / flat face
		Podignutim licem / raised face
		Klizne / lap joint

Materijali / Materials

Komponente Component	Materijal / Material
1 Telo Body	EN GJL 250
2 Disk Disco	EN GJS 400 - 15 Niklovano - nickel plated
3 Vreteno Stem	Nerdajući čelik - Stainless Steel AISI 420
4 Obloga Liner	EPDM
5 Čaura Bushing	PTFE
6 Podloška Washer	Pocinkovani ugljenični čelik Galvanized carbon steel
7 Sigurnosni prsten ISO3075 Circlip ISO3075	Šelik za opruge Spring steel
8 O-Ring O-ring	FKM (Viton®)
9 Ručica Lever	Epoksidno obojen čelik Steel
10 Vijci Bolts	Pocinkovani ugljenični čelik Galvanized carbon steel

Maksimalni pritisak / Maximum pressure

Tip fluida * / Fluids *	Montaža / Mounting	
	IZMEĐU PRIRUBNICA / BETWEEN FLANGES	NA KRAJU CEVOVODA / END OF LINE
Opasni gasovi Hazardous gases	NE / NO	NE / NO
Opasne tečnosti Hazardous liquids	16 bar DN40-200 10 bar DN250-300	10 bar DN40-200 6 bar DN250-300
Bezopasni gasovi Non hazardous liquids	16 bar DN40-125 10 bar DN150-300	10 bar DN40-125 6 bar DN150-300
Bezopasne tečnosti Non hazardous liquids	16 bar	10 bar
Voda** Water**	16 bar	16 bar

* gas, opasne tečnosti prema 2014/68/EU i 1272/2008 (CLP)

** Za snabdevanje, distribuciju i ispuštanje vode (PED 2014/68/EU 11.2b)

* hazardous gas, liquids acc. 2014/68/EU e 1272/2008 (CLP)

** For supply, distribution and discharge of water (PED 2014/68/EU 11.2b)

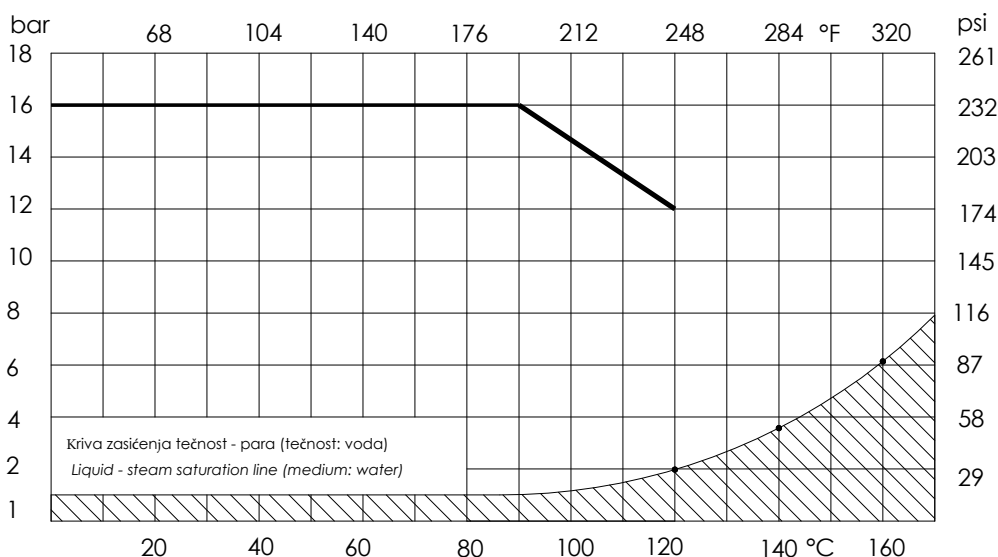
Temperatura / Temperature

Temperatura Temperature	min °C	max°C - Max°C	
		stalna / continuous	pik / peak
EPDM	-10	120	130

Pažnja: maksimalni radni pritisak smanjuje se sa temperaturom, vidi dijagram "Pritisak/Temperatura"

NB: the maximum working pressure decreases while the temperature increases; please refer to "pressure/temperature" chart

Dijagram Pritisak/Temperatura / Pressure/temperature chart



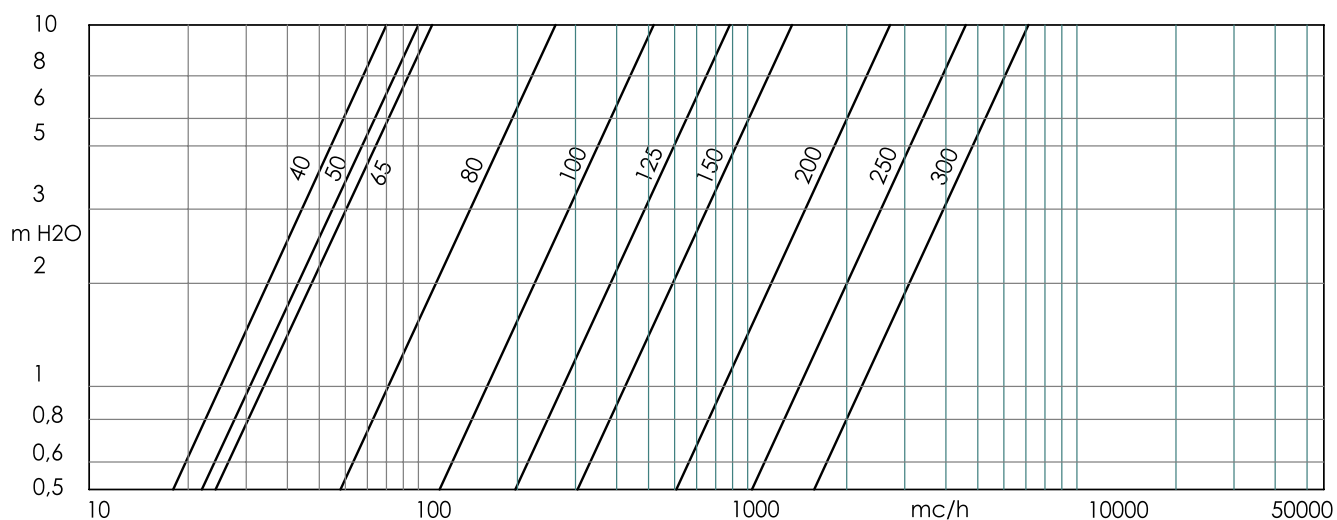
NIJE POGODAN ZA PARU. NE koristiti u uslovima temperature i pritiska ispod krive zasićenja tečnosti - pare (šrafrano područje)

RANGE NOT SUITABLE FOR STEAM. DO NOT use when temperature and pressure are below the liquid-steam saturation line (hatched area)



Pad pritiska Fluid: voda (1m H2O = 0,098bar) - Perdite di carico ad otturatore completamente aperto

Head loss Fluid: water (1m H2O = 0,098bar) - Head loss with shutter fully opened



Kriva protok/ugao otvaranja Procenat protoka pri potpunom otvaranju sa istim padom pritiska..

Flow rate / opening position chart Flow percentage on the flow at full opening under the same loss of head.

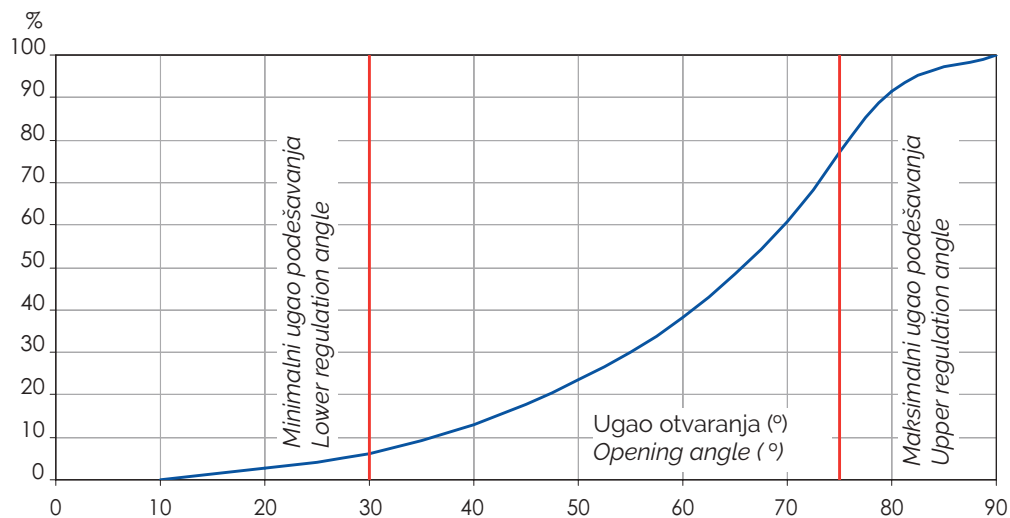


Tabela Kv - DN (mc/h za bar) / Kv - DN chart (mc/h per bar)

DN	mm	40	50	65	80	100	125	150	200	250	300
	ins	1" 1/2	2"	2" 1/2	3"	4"	5"	6"	8"	10"	12"
UGAO OTVARANJA	10°	0,04	0,05	0,00	0,17	0,26	0,43	0,69	2,6	2,6	3,5
OPENING ANGLE	20°	2,1	2,6	3,8	7,8	15	25	39	52	130	202
	30°	4,8	6	14	16	31	53	82	142	276	427
	40°	10	13	33	34	67	115	177	250	599	926
	50°	19	23	53	60	120	205	316	450	1068	1650
	60°	30	38	75	100	199	339	522	713	1768	2730
	70°	48	60	98	158	314	535	827	1122	2798	4322
	80°	73	91	108	237	471	803	1241	1723	4196	6483
	90°	79	99	108	261	518	883	1364	2716	4611	7124

Uputstva i preporuke za seriju J9 - L9

INSTALLAZIONE E TRASPORTO

UGRADNJA I PREVOZ

- Čuvati na zatvorenom i suvom mestu.
- Za vreme skladištenja, disk ventila mora biti u poluotvorenom položaju (Slika. 1).
- Izbegavajte udarce, posebno na najslabijim delovima (ručica, ručni točak, reduktori / pogoni).
- Ne koristite slabije delove (ručka, ručni točak) da biste podigli ventil.

ODRŽAVANJE

Održavanje nije potrebno (ne sprovedite intervencije).

UPOZORENJA

Pre nego što nastavite sa održavanjem ili demontažom: sačekajte da se cevi, ventil i tečnost ohlade, smanjiti pritisak i ispraznite vodove i cevi u slučaju prisustva toksičnih, korozivnih, zapaljivih ili kaustičnih tečnosti. Temperature iznad 50° C i ispod 0° C može prouzrokovati telesne povrede

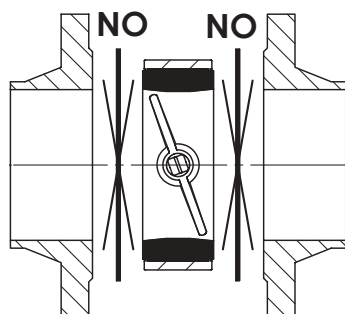
UGRADNJA

- Pustupite sa pažnjom.
- Prirubnice ne smeju biti zavarene na cevi nakon postavljanja ventila.
- Hidraulični udar može prouzrokovati oštećenja i lomove. Nagibi, zakretanja i cevi koje nisu u osi mogu prouzrokovati naprezanje ventila kada se jednom postave. Preporučujemo da ih izbegavate koliko je to moguće ili da koristite gumene kompenzatore koji mogu umanjiti njihove efekte.

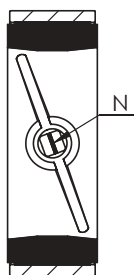
Disk ventila mora biti u poluotvorenom položaju (slika 1). Vreteno ima zarez - oznaku N (slika 2) koja označava položaj diska; uzmite to u vidu kada postavljate ručicu ili pogon.

Moguća je ugradnja sa osovinom u vertikalnom i vodoravnom položaju. U slučaju fluida koji sadrži suspendovane čvrste čestice (npr. pesak, nečistoće, itd.) ili koji mogu formirati naslage, preporučuje se postavljanje ventila vodoravno tako da se donji deo diska otvara u smeru protoka F (sl. 3).

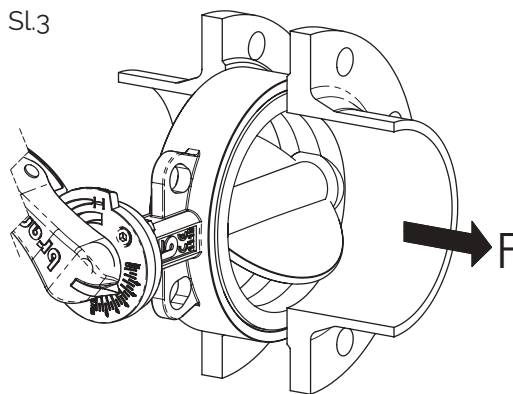
Sl.1



Sl.2



Sl.3



Art. L9 omogućava demontažu nizvodne cevi pri pritisku nižem od 6 bara. Za postavljanje ventila na kraju instalacije:

- SERIJA J9 (bilo koji pritisak): upotreba kontraprirubnica je neophodna.

Proverite maksimalne radne pritiske i ograničenja upotrebe koja se nalaze u delu „Maksimalni pritisak“.

Postavite ventil između dve prirubnice. Pazite da ima dovoljno prostora prilikom postavljanja ventila između prirubnica da ne biste oštetili gumu. Ne postavljajte zaptivače između ventila i prirubnice (slika 1). Temeljito očistite površine kontakta. Ne postavljajte leptir ventil u direktan dodir sa gumenom površinom (npr. gumeni kompenzatori); optimalna instalacija zahteva kontakt guma-metal (Sl. 4).

Instruction and Recommendations for series J9 - L9

INSTALLATION AND TRANSPORT

- Keep in dry and closed place.
- While stored, the disc must be partially open (Fig. 1).
- Avoid knocks, take special care to protect lever, hand wheel, gear boxes/actuators.
- Do not use lever or hand wheel to lift the valve.

MAINTENANCE

The valve does not require maintenance.

Recommendations

Before carrying out maintenance or dismantling the valve, be sure that the pipes, valves and liquids have cooled down, that the pressure has decreased and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids.

Temperatures above 50°C and below 0°C might cause damage to people.

INSTALLATION

- Handle with care.
- Do not weld the flanges to the piping after installing the valve.
- Water hammers might cause damage and ruptures. Inclination, twisting and misalignments of the piping may subject the valve to stress, once installed. It is recommended that elastic joints be used in order to reduce these effects as much as possible. The disc must be partially open (Fig. 1).

The stem has a machined notch N (Fig. 2), which indicates the position of the disc; consider this indication, in order to mount the levers and actuators correctly.

The mounting can be made with the stem axis in a horizontal or vertical position. In case the fluid contains suspended solid particles (for example, sand, impurities, etc.) or solid particles that may leave deposits, it is recommended that the valve be installed with its axis horizontal, and in such a way that the bottom end of the disc opens in the direction of flow, F. (Fig. 3)

The item L9 allows the dismantling of the pipes downstream, for pressures below 6 bar. For end of line installation:

- series J9 (all pressures): counter flange **MUST** be installed
Verify maximum working pressure and limits of use under section "maximum pressure".

Place the valve between two flanges. While placing the valve, ensure there is sufficient space in order not to damage the rubber. Do not mount seals between valve and flanges (Fig. 1). Carefully clean the contact surface. Do not install the butterfly valve in direct contact with a rubber surface (for example, expansion joints); the best installation is when the rubber is in contact with metal (Fig. 4).

GJL 250 Wafer leptir ventili / GJL 250 Wafer butterfly valve

Da bi se omogućio ispravan rad, unutrašnji prečnik cevi mora biti veći od minimalne vrednosti navedene u tabeli. Ne zavarujte prirubnice na cev kada je ventil već postavljen. Preporučuje se upotreba prirubnica prema donjoj tabeli.

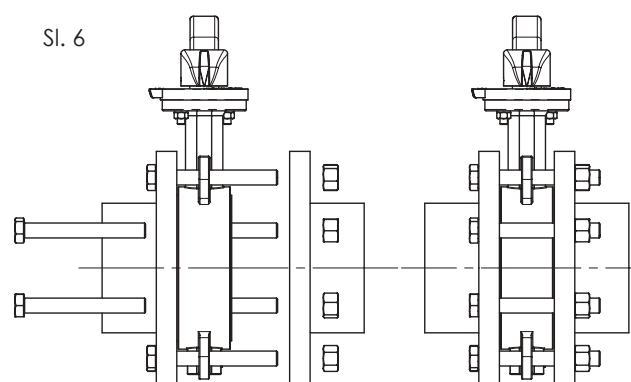
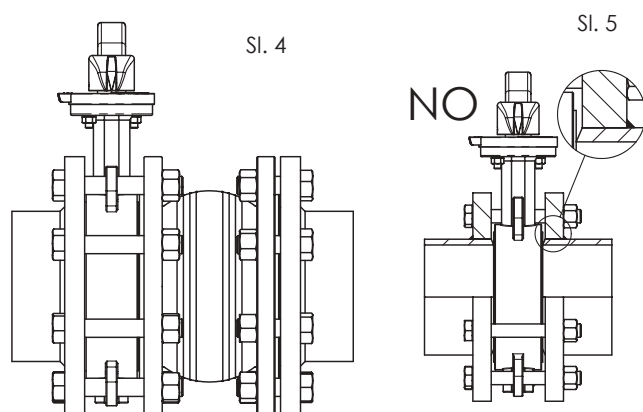
Izbegavajte, koliko je to moguće, ravne zavarene prirubnice (EN1092 tip 01); ako je potrebno, proverite savršeno centriranje između prirubnice i ventila i proverite da li su pravilno zavareni sa prirubnicom. Nemojte dozvoliti da izbočine ili oštre ivice na cevovodu oštete gumeni površinu ventila (Sl. 5).

Za verzije Wafer centrirajte ventil na ušicama. Vijke zategnite unakrsno i postepeno kako biste ravnomerno rasporedili pritisak pre nego što telo i prirubnice dođu u kontakt jedno sa drugim. (Sl. 6)

In order to achieve correct working, the internal diameter of the pipe must be greater than the value indicated in the chart. Do not weld the flanges to the tube if the valve has already been installed. It is recommended that the flanges listed in the chart be used. As far as possible, avoid flat flanges for welding (EN 1092 01 type); if these flanges are used, ensure perfect centring between the flange and valve, and be sure to weld exactly edgewise to the flange. Do not let protrusions or sharp edges on the piping cause damage to the rubber surface of the valve (Fig. 5).

Centre the valve on holes while using wafer type valves.

Tighten the bolts crosswise and progressively, in order to distribute the pressure equally before the body and flanges come into contact with each other. (Fig. 6)



Za verziju Lug proverite da li su vijci ispravne dužine, kako bi se omogućila potpuna kompresija gumenog "liner" omotača.

Turbulentno strujanje tečnosti može povećati habanje i smanjiti vek ventila. Da biste smanjili ovu pojavu, preporučuje se postavljanje ventila na minimalnom rastojanju od najmanje 1 puta DN-a uzvodno i 2-3 DN-a nizvodno od fitinga i kolena.

U otvorenom položaju ventil je veći od nominalne dimenzije.

Proverite da nema ometanja drugih elemenata cevovoda koji mogu prouzrokovati oštećenja ili neispravnost (Sl. 7A). Ako je potrebno, ugradite odstojnik kako biste omogućili pravilan rad (Sl. 7B).

With regard to the Lug version, check that the screws are the correct length, in order to allow complete compression of the lining rubber.

Turbulences of the fluid might increase erosion and reduce the life-cycle of the valve. Install the valve at a distance of at least $1 \times DN$ upstream, and at a distance of $2-3 \times DN$ downstream, away from fittings or bends. In the open position, the valve is larger than the nominal Face to Face value.

Check that no other components of the piping interfere or create damage or malfunction (Fig. 7A).

If they do, a spacer should be inserted for the valve to operate correctly (Fig. 7B).

