VASTAS
VALVES & ACTUATORS

Dual Disc Check Valves

E40D Wafer, Wafer Lug, Flanged

For...

- Natural Gas & Crude Oil
- Potable & Drinking Water
- Oil & Steam



DN	NPS	Class	
50 – 1200	2 - 48 inch	150 – 2500	6D-0449

E40D

Dual Disc Check Valves

The Dual Disc Check Valve is designed to provide flow in the one direction and close rapidly upon flow reversal. The valve obturator responds automatically to block fluid in one direction and, prevents reverse flow. On pump start-up, the fluid flow enters to valve from the upstream and forces dual plates to open until they strike the disc stop pin. On pump shut-down, valve closes with help of the torsion springs. The valve could be installed in both horizontal and vertical positions.

Product Standards	
API 594	Valve design
API 598	Valve Pressure Testing and Inspection
ASME B16.5	Flanges up to 24”
ASME B16.47	Flanges from 26” to 60”
ASME B16.34	Pressure / Temprature Rating
API 6D	Pipeline Valves

- ✓ **Dual disc check valves are light weight and compact in comparison to other check valves and have lower installation cost.**
- ✓ **Dual disc design reduces valve pressure drop in comparison to other check valves**
- ✓ **Retainerless valve body; meaning, no penetration through the body wall**
- ✓ **Valve springs loading on plates provide tight seal and minimize plates slamming**
- ✓ **Eliminate the water hammer or shock flow in shut-off and start-up pumps in pipelines**

One of the important concept in check valves is cracking pressure, which is the minimum upstream pressure at which the valve will operate automatically. This valve can be installed both horizontally or vertically to the pipeline, and cracking pressure will be different accordingly.
A wide variety of design and materials in VASTAS productions make it applicable for different gas and fluid in different industries.

Cracking pressure (psi)

Valve size	Instalation Orientation	
	Horizontal Pipeline	Vertical Pipeline
	Valve hinge pin perpendecular to ground	Valve hinge pin parallel to ground
2“ to 14“	0,3	0,4
16“ to 24“	0,3	0,5
30“ to 48“	0,3	0,6

Applications

A wide variety of design and materials in VASTAS productions make it applicable for different liquid and gas fluid in different industries. VASTAS dual disc check valves applications field are not limited and it can be used in wide range of fluid and gas production such as petroleum refining, power generation, chemical, and petrochemical industries. This valve should be used for clean flow and it is not recommended for fluids containing suspended solids such as wastewater.

Pressure Rating

Figure marks are indicated below for Vastas Dual Disc Check Valves, according to pressure classes.

Pressure

Figure	Size	Class	MPa	Barg	Psig
E41D.11	2"-48"	150	1,96	19,6	285
E42D.11	2"-48"	300	5,11	51,1	740
E43D.11	2"-48"	600	Eki.21	102,1	1480
E44D.11	2"-24"	900	15.32	153,2	2220
E45D.11	2"-24"	1500	25.53	255,3	3705
E46D.11	2"-12"	2500	42,55	425,5	6170



Wafer type

Valves Types

Extensive range of materials, sizes and pressure classes, make our products exceptional. VASTAS dual disc check valves are available in 3 basic body style which are Wafer type, Lug type, and Double Flanged type. In the Lug type, the through and threaded holes are optionally manufactured by customers order. The ring-joint type is also available for both Lug type and Double Flanged type.



Wafer-Lug Type

License & Approvals

- Vastas dual disc check valves are licensed for application of API Monogram (API 6D-0449)
- Designed according to API 594 and ASME B16.34 standards.
- Fire Safe Design as per API 598, ISO 10497, BS6755
- American Petroleum Institute 6A Licence (API 6A-1301)
- Corrosion Resistance Test Cert. as per NACE 0175 & 0103
- Committee Europe 97/23-CE 0036
- Gost No: C-TR.AB28.B.00292 TP 0J2 8087
- And 'CE' certification are some of approvals gained for Vastas Valves.

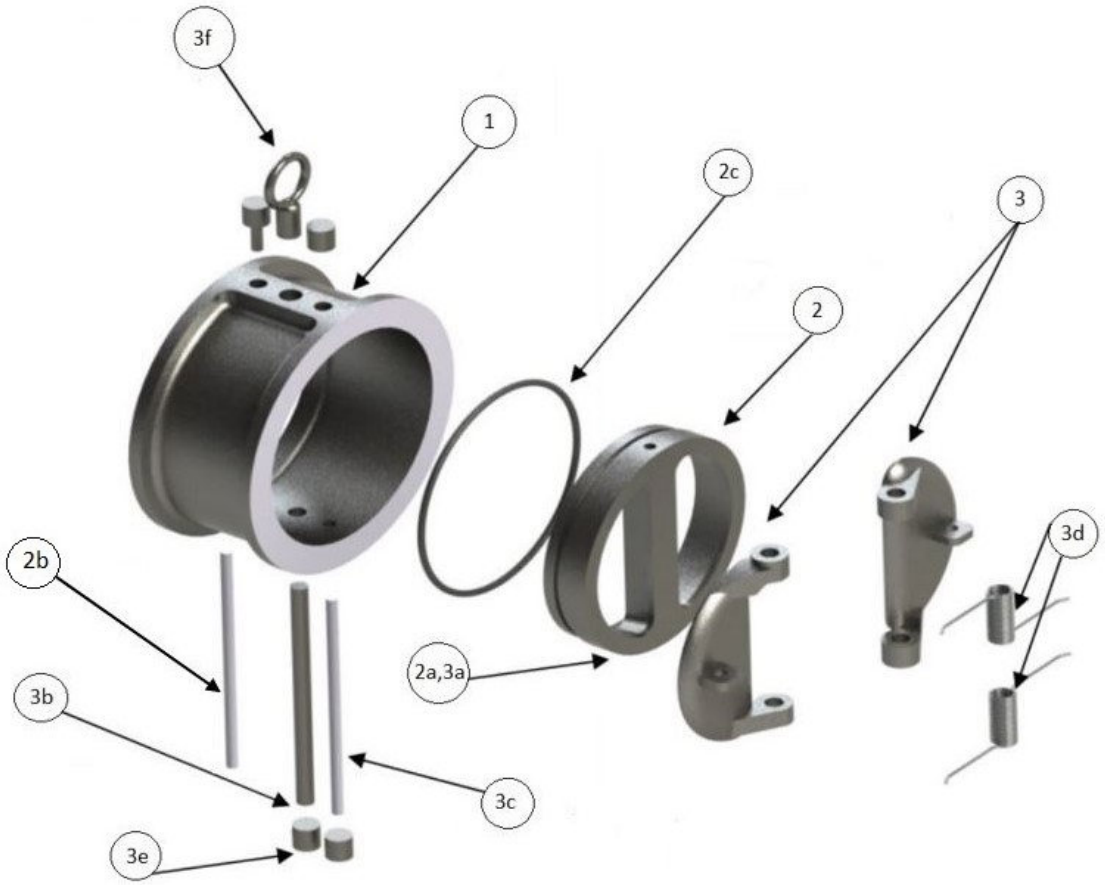


Double Flange Type

Supplementary Documents

- This catalog is attached to the offer. Special requirements are indicated of proforma invoice together with supporting documents.
- Material & Test certificate, instruction manual and guarantee certificate shall be supplied at delivery.
- Offered optionals are supported with technical documents.

Features



Part List for E40D.11

Part No.	Part Name	Symbol	Material
1	Body	WCB	ASTM A216 Gr.WCB
2	Body Seat Ring	CA15	ASTM A217 Gr.CA15
2a	Body Seat Face	int.	integral
2b	Seat Pin	420	AISI 420
2c	Seal Ring	**FKM	Fluorine R.(VITON R.)
3	Disc	CA15	ASTM A217 Gr.CA15
3a	Disc Seat Face	int.	integral
3b	Disc Pin	420	AISI 420
3c	Stop Pin	420	AISI 420
3d	Catch Spring	302	AISI 302
3e	Plug	420	AISI 420
**3f	Eye Bolt	B	ASTM A307 Gr B

Optionally manufactured from other materials (depends on customer order)

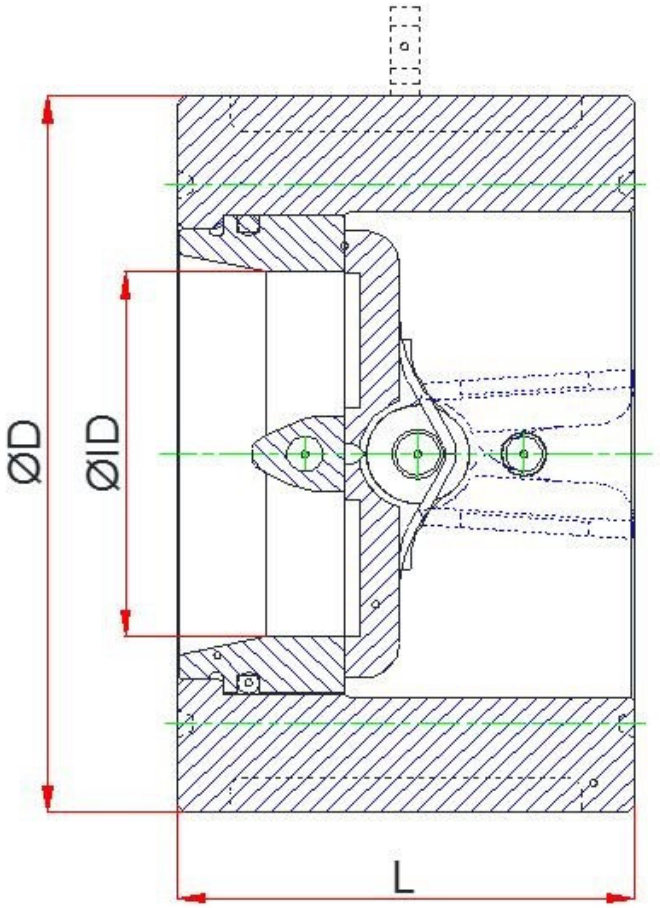
**FKM; ratings (-35°C +160°C)

***3f; Eye Bolt is used if the valves are over 30 kg

Wafer Type

Figure: E41D to E46D

Class: 150 - 2500

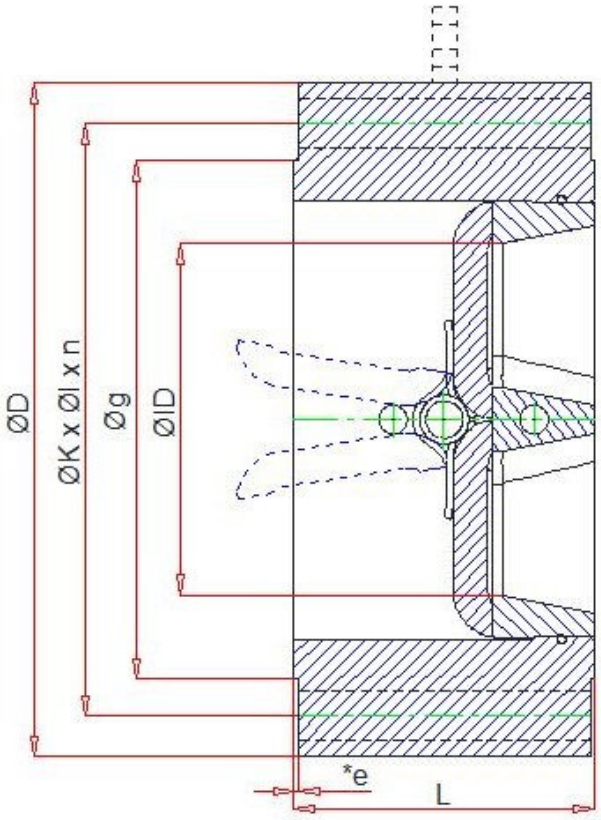


Dimension & Weight

Size			ØID				ØD						L						Weight					
NPS	DN	Kv	#150 #600	#900	#1500	#2500	#150	#300	#600	#900	#1500	#2500	#150	#300	#600	#900	#1500	#2500	#150	#300	#600	#900	#1500	#2500
inch.	mm	m3/h	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg	kg	kg
2	50	34	49	49	49	42	100	107	107	138	138	142	60	60	60	70	70	70	3	3	3	7	7	8
3	80	110	74	74	74	62	132	145	145	163	169	192	73	73	73	83	83	86	5	7	7	11	12	17
4	100	130	100	100	100	87	170	177	189	201	204	231	73	73	79	102	102	105	9	10	13	19	20	30
6	150	570	150	150	144	131	218	246	262	284	278	311	98	98	136	159	159	159	15	23	39	57	55	78
8	200	1200	201	201	192	179	275	303	316	353	348	381	127	127	165	206	206	206	28	40	60	107	107	144
10	250	1300	252	252	239	223	335	357	396	430	430	472	146	146	213	241	248	254	44	58	122	180	195	271
12	300	3300	303	303	287	265	405	418	453	493	518	544	181	181	229	292	305	305	81	92	160	272	349	424
14	350	4200	334	322	315		446	481	488	516	573		184	222	273	356	356		99	164	213	357	503	
16	400	5900	385	373	360		510	536	561	570	637		191	232	305	384	384		132	199	313	440	653	
18	450	8500	436	423	406		544	593	608	634	700		203	264	362	451	468		132	263	401	620	938	
20	500	11900	487	471	454		601	650	678	694	751		219	292	368	451	533		167	333	505	722	1175	
24	600	23000	589	570	546		712	771	786	834	897		222	318	438	495	559		219	485	731	1131	1910	
28	700	30000	684				826	895	910				278	352	483				367	723	1072			
30	750	34000	735				877	948	967				306	368	505				432	813	1229			
32	800	35500	779				935	1002	1018				326	407	549				537	996	1453			
36	900	37000	874				1043	1113	1126				368	483	635				735	1413	1972			
40	1000	53000	976				1157	1110	1151				411	540	679				978	930	1557			
42	1050	61000	1020				1214	1161	1215				432	568	701				1154	1076	1883			
48	1200	130000	1166				1379	1320	1386				524	629	767				1750	1484	2654			

Wafer-Lug Type

Figure: E41DL, E42DL, E43DL
Class: 150 – 600



#150 Class Dimensions & Weight of E41DL

NPS	DN	ØID	ØD	Øg	ØK	n	Øl	L	Wt	Kv
in	mm	mm	mm	mm	mm	no	mm	mm	kg	m3/h
2	50	49	150	92	121	4	19	60	7	34
3	80	74	190	127	152	4	19	73	14	110
4	100	100	230	157	191	8	19	73	19	130
6	150	150	280	216	241	8	22	98	34	570
8	200	201	345	270	299	8	22	127	62	1200
10	250	252	405	324	362	12	26	146	90	1300
12	300	303	485	381	432	12	26	181	160	3300
14	350	334	535	413	476	12	29	184	198	4200
16	400	385	595	470	540	16	29	191	242	5900
18	450	436	635	533	578	16	33	203	267	8500
20	500	487	700	584	635	20	33	219	341	11900
24	600	589	815	692	749	20	36	222	434	23000

#300 Class Dimensions & Weight of E42DL

NPS	DN	ØID	ØD	Øg	ØK	n	Øl	L	Wt	Kv
in	mm	mm	mm	mm	mm	no	mm	mm	kg	m3/h
2	50	49	165	92	127	8	19	60	9	34
3	80	74	210	127	168	8	22	73	17	110
4	100	100	255	157	200	8	22	73	25	130
6	150	150	320	216	270	12	22	98	48	570
8	200	201	380	270	330	12	26	127	81	1200
10	250	252	445	324	387	16	29	146	121	1300
12	300	303	520	381	451	16	32	181	199	3300
14	350	334	585	413	514	20	32	222	316	4200
16	400	385	650	470	572	20	35	232	392	5900
18	450	436	710	533	629	24	35	264	511	8500
20	500	487	775	584	686	24	35	292	654	11900
24	600	589	915	692	813	24	41	318	961	23000

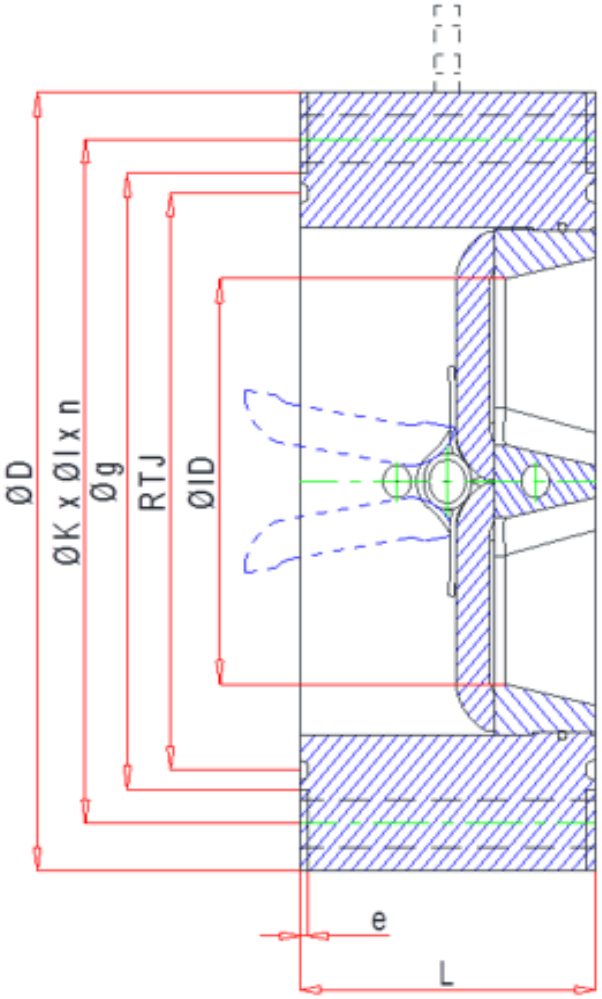
#600 Class Dimensions & Weight of E43DL

NPS	DN	ØID	ØD	Øg	ØK	n	Øl	L	Wt	Kv
in	mm	mm	mm	mm	mm	no	mm	mm	kg	m3/h
2	50	49	165	92	127	8	19	60	9	34
3	80	74	210	127	168	8	22	73	17	110
4	100	100	275	157	216	8	26	79	32	130
6	150	150	355	216	292	12	29	136	87	570
8	200	201	420	270	349	12	32	165	138	1200
10	250	252	510	324	432	16	35	213	258	1300
12	300	303	560	381	489	20	35	229	313	3300
14	350	334	605	413	527	20	38	273	428	4200
16	400	385	685	470	603	20	41	305	603	5900
18	450	436	745	533	654	20	45	362	814	8500
20	500	487	815	584	724	24	45	368	968	11900
24	600	589	940	692	838	24	51	438	1449	23000

**e (RF) size for class #150 and class #300 1.6mm, for class #600 6.4mm*

Wafer-Lug Type with Ring-Joint

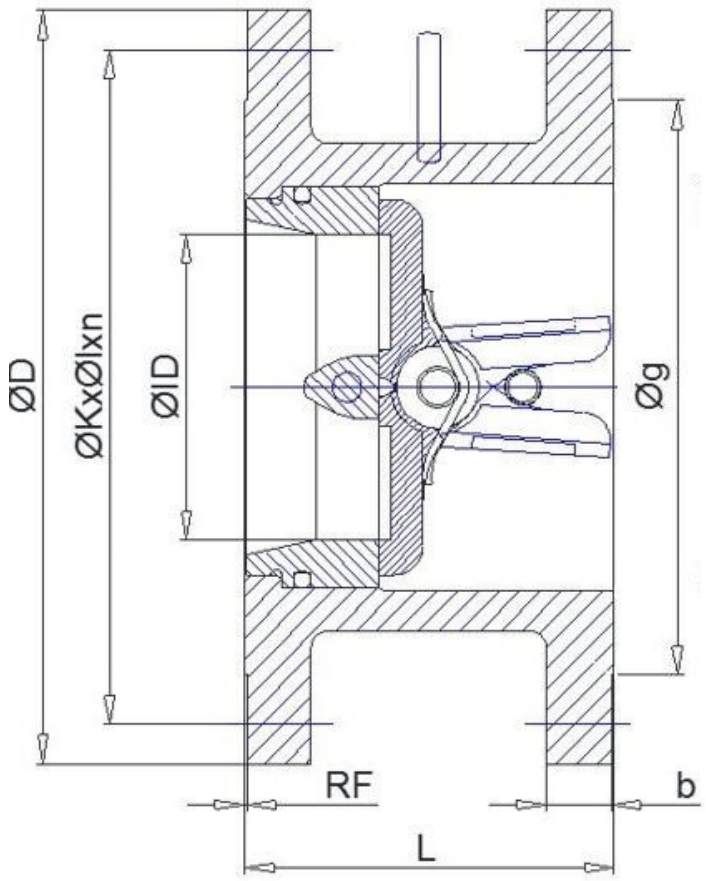
Figure: E45DLJ, E46DLJ
Class : 1500 - 2500



NPS	DN	ØID	ØD	Øg	ØK	n	Øl	RTJ	e	L	Wt	Kv
in	mm	mm	mm	mm	mm	no	mm	no	mm	mm	kg	m3/h
1500 Class Dimensions & Weight of E45DLJ												
2	**50**	49	215	124	165	8	25	R24	7,9	70	19	34
3	**80**	74	265	168	203	8	32	R35	7,9	83	33	110
4	**100**	100	310	194	241	8	35	R39	7,9	102	54	130
6	**150**	144	395	248	318	12	38	R46	9,5	159	133	570
8	**200**	192	485	318	394	12	44	R50	11,1	206	252	1200
10	**250**	239	585	371	483	12	51	R54	11,1	248	436	1300
12	**300**	287	675	438	572	16	54	R58	14,3	305	702	3300
2500 Class Dimensions & Weight of E46DLJ												
2	**50**	42	235	133	171	8	29	R26	7,9	70	23	34
3	**80**	62	305	168	229	8	35	R32	9,5	86	47	110
4	**100**	87	355	203	273	8	41	R38	11,1	105	77	130
6	**150**	131	485	279	368	8	54	R47	12,7	159	214	570
8	**200**	179	550	340	438	12	54	R51	14,3	206	343	1200
10	**250**	223	675	425	540	12	67	R55	17,5	254	635	1300
12	**300**	265	760	495	619	12	73	R60	17,5	305	954	3300

Double Flanged Type

Figure: E41DF to E43DF
Class: 150-600



Dimensions & Weight

NPS	DN	ØID	ØD			L			Øk			Øl			Øg			n			b			Wt			
		~600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	150#	300#	600#	Kv
inch.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	no.			mm			kg			
2	50	49	150	165	165	60	60	60	121	127	127	19	19	19	92	92	92	4	8	8	16	23	26	4	6	7	34
3	80	74	190	210	210	73	73	73	152	168	168	19	22	22	127	127	127	4	8	8	19	29	32	12	16	17	110
4	100	100	230	255	275	73	73	79	191	200	216	19	22	26	157	157	157	8	8	8	24	32	38	19	28	34	130
6	150	150	280	320	355	98	98	137	241	270	292	22	22	29	216	216	216	8	12	12	26	37	48	27	43	64	570
8	200	201	345	380	420	127	127	165	299	330	349	22	26	32	270	270	270	8	12	12	29	41	56	39	60	92	1.200
10	250	252	405	445	510	146	146	213	362	387	432	26	29	35	324	324	324	12	16	16	30	48	64	57	97	145	1.300
12	300	303	485	520	560	181	181	229	432	451	489	26	32	35	381	381	381	12	16	20	32	51	67	86	144	189	3.300
14	350	334	535	585	605	184	222	273	476	514	527	29	32	38	413	413	413	12	20	20	35	54	70	110	178	235	4.200
16	400	385	595	650	685	191	232	305	540	572	603	29	35	41	470	470	470	16	20	20	37	57	76	129	219	292	5.900
18	450	436	635	710	745	203	264	362	578	629	654	33	35	45	533	533	533	16	24	20	40	61	83	157	265	367	8.500
20	500	487	700	775	815	219	292	368	635	686	724	33	35	45	584	584	584	20	24	24	43	64	89	200	337	450	11.900
24	600	589	815	915	940	222	318	438	749	813	838	36	41	51	692	692	692	20	24	24	48	70	102	323	553	734	23.000
28	700	684	925	1035	1075	282	345	482	863	940	965	36	44	54	800	800	800	28	28	28	72	86	111	469	765	1.014	28.000
30	750	735	985	1090	1130	305	368	505	914	997	1022	36	48	54	857	857	857	28	28	28	75	92	114	603	948	1.243	34.000
32	800	779	1060	1150	1195	368	483	570	978	1054	1080	42	51	60	914	914	914	28	28	28	81	99	117	686	1.047	1.364	37.000
36	900	874	1170	1270	1315	368	483	635	1086	1168	1194	42	54	67	1022	1022	1022	32	32	28	91	105	124	814	1.230	1.610	42.000
40	1000	976	1290	1240	1320	432	568	685	1200	1157	1213	41	45	60	1041	1048	1111	36	32	32	91	114	168	1.062	1.517	2.117	55.300
42	1050	1020	1345	1290	1405	432	568	701	1257	1206	1283	42	44	67	1194	1137	1168	36	32	28	98	119	168	1.250	1.791	2.565	61.000
48	1200	1166	1510	1465	1595	524	629	787	1422	1372	1461	42	51	73	1359	1302	1334	44	32	32	108	133	189	1.860	2.773	3.891	130.000

(RF) size for class #150 and class #300 2mm, for class #600 7mm

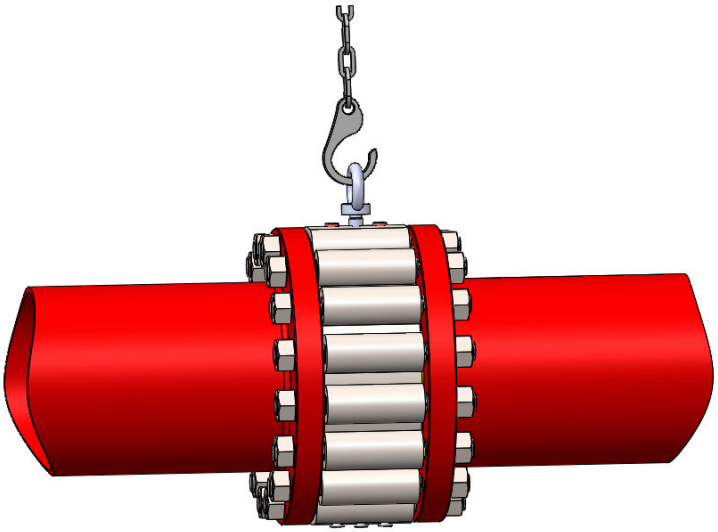
Installation Between End Connection

- The hinge pin must be perpendicular to flow direction
- Lifting eye is used if the valves are over 30 kg or 10”

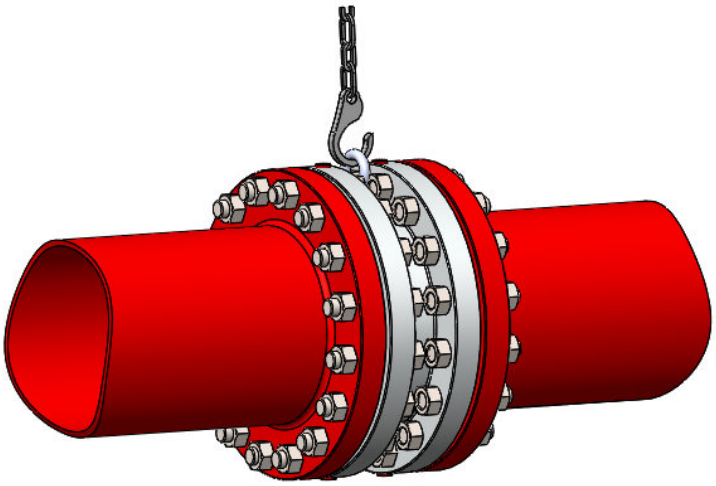
Wafer type



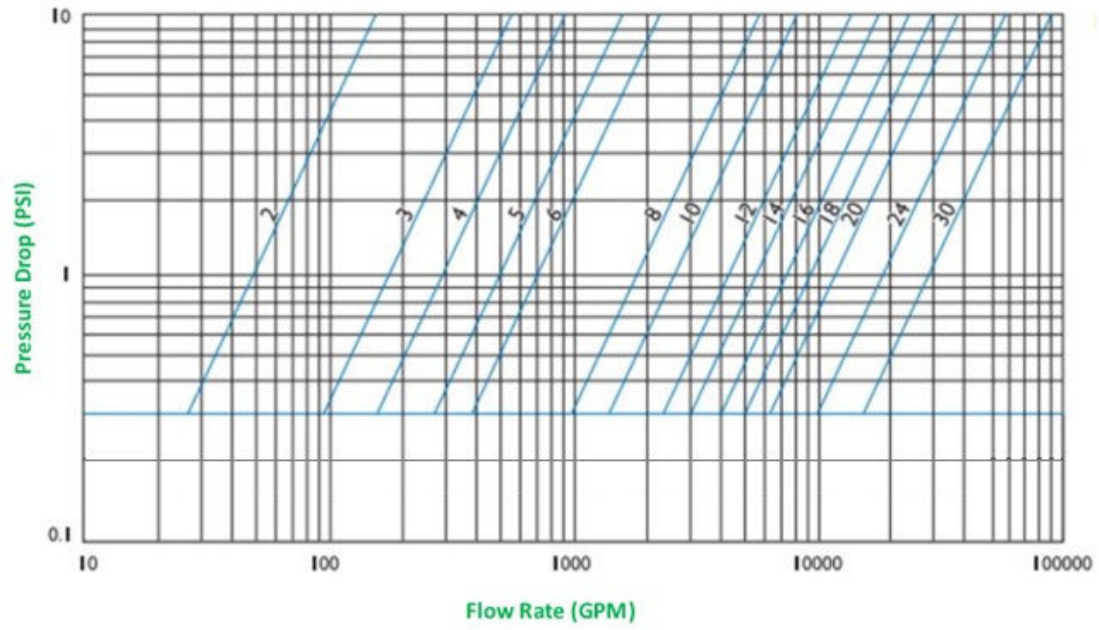
Wafer Lug type



Double Flanged type



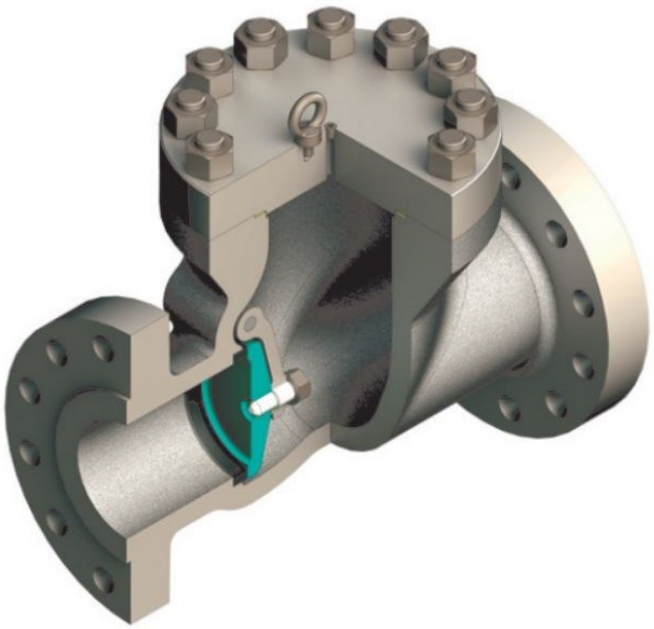
Pressure Drop Chart



Note: Pressure Drop curves are based on water flow.
Valve cracking pressure is equal or less than 0.3 psi.

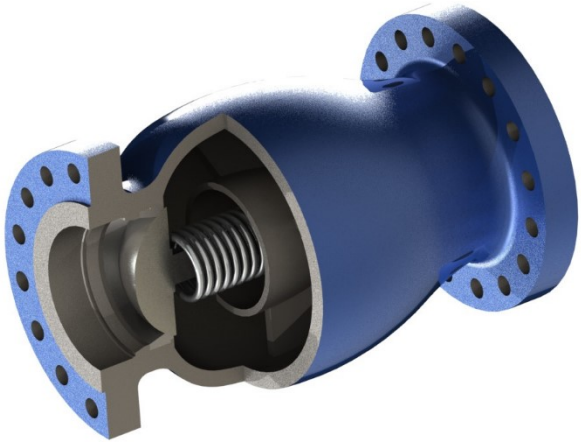
Other Check Valve Types

- **Swing Check valve**



The swing check valve is of the most popular check valve. In this valve, the hinged disc is suspended from the body which allows it to move freely. This configuration minimizes pressure loss and eases fluid flow. Swing check valves can be used for either horizontal or vertical (fluid flowing upward) pipe layouts. This check valve is able to use in piggable pipline according to API6D.
Vastas swing check valves are available from size range 2” to 48” and pressure class 150 to 1500.

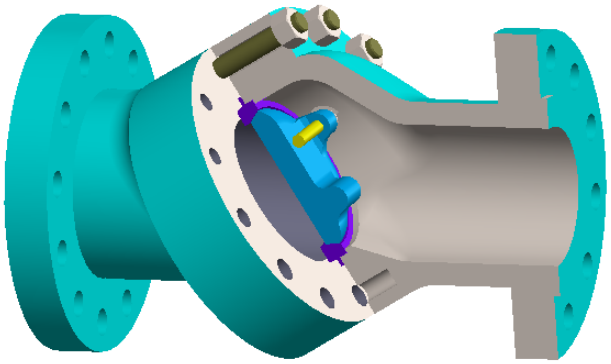
➢ Nozzle Check valve



The Nozzle check valve is installed to prevent and protect against the consequences of unintended reverse flow. Due to its short stroke length and fast speed of response the Nozzle check is ideal for critical pump and compressor applications. The fundamental benefits and features of the Vastas Nozzle Check Valve are:

- ✓ Non-slam closure
- ✓ Prevent water hammer
- ✓ Very low pressure loss
- ✓ Metal sealing

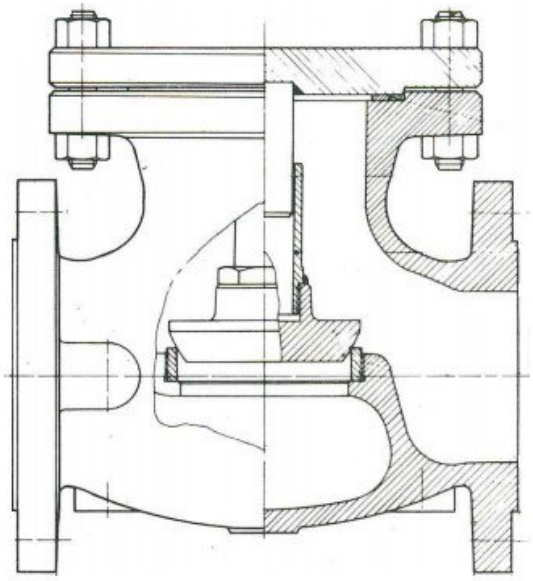
➢ Tilting Check Valve



The tilting disc check valve is designed to reduce the slamping force and operate very fast in comparison to swing check valve. This valve is preferred in any instalation configuration. At the below some of the Vastas tilting disc check valve are listed:

- ✓ The rapid response of this valve, reduces closing time of valve in comparison to other check valves
- ✓ Better closing characteristics due to the smaller swing angle of the disc.
- ✓ Low pressure drop and low opening pressure
- ✓ Excellent tightness and superior surface finish

➢ Lift Check Valve



The lift check valve have all features of globe valves without the handwheel and any parts which related to manual operation.
Lift check valves are suitable to mount in horizontal position only. Globe-check valves are used for applications requiring throttling and frequent operation. Accurately machined, lapped and screwed in seat ring ensures tight shut of and long life of this valve. The valve disc is perfectly designed, accurately machined and guided for efficient automatic shut off at zero pressure. Spring loaded Lift-Check valves are optional upon request and by means of the thrust exerted by the spring used. These valve can be produced between 2-14 inch and up to class 600.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Türkiye

CERTIFICATE / *SERTİFİKA*

NACE Certificate on Industrial Valves

User *" Kullanıcı"*	:	General Using
Project No. / Cert. No *"Proje No" / "Sert. No"*	:	15-B-00828
Test Examiner Body *Test yapan firma*	:	VASTAŞ Laboratory And KOSGEB laboratories in Istanbul/TURKEY
Test body project no. *Test firması Proje no*	:	Can be seen in attached technical file
Test Date *"Test Tarihi"*	:	2015 "detail date can be seen in technical file"
Valve type & size *Vana tipi & ölçüsü*	:	Carbon steel, Ball, Gate, Globe, Check, Plug, Butterfly Valves ½" to 72" (DN15 to 1800)
Class *"Sınıf"*	:	150, 300, 600, 900, 1500, 2500 (PN16, PN20, PN40, PN50, PN64, PN100, PN 110, PN150, PN250, PN420)
Referance standarts *Referans Standardlar*	:	API 6D, API 600, API 602, API 6A, ISO 14313, ASME B16.34
Related standart *İlgili Standardı*	:	NACE MR0175:2009 / ISO 15156-1:2009

VASTAŞ Valf Armatur Sanayii Ticaret A. Ş. Company manufacture difference type and dimension of Gate, Globe, Plug, Ball and Check Valves at Çerkezköy/Tekirdag/ Turkey Vastaş company requested from TÜV SÜD to certify their manufacturer line according to requirements of ANSI/NACE MR 0175:2009 /ISO 15156-1:2009 standard.
For this audit following activities have been inspected by TÜV SÜD inspector.
Spot dimensional and visual inspection of valves in manufacturer line, Compare material certificates with related valves on heat numbers, Test samples have been provided from difference type of valve material under observation of TÜV SÜD inspector, review of test report for Tensile, Chemical, Hardness, Impact, Macro and Micro Tests.
The entire test results have been compared with related Valve material standard ASME B16.34 and ANSI/NACE MR 0175:2009/ISO 15156-1:2009 standards.
VASTAŞ Laboratory reports, supplier test reports and Material Certificates have been reviewed by TÜV SÜD Inspectors.
The test results have been found satisfactorily.
This certificate is given due to client request.

First issue date *İlk veriliş tarihi*	:	26.07.2010
Test Date *Test Tarihi*	:	02.11.2015
Validity until *Geçerlilik tarihi*	:	01.11.2020
Test Place *Test Yeri*	:	Cerkezkoy / Tekirdag / TURKEY
Anex *"Ekler"*	:	Technical file includes related Test Reports, Other Test reports and Material Certificates
Investigation Result *İnceleme Sonucu*	:	SATISFACTORY *Uygun*

Place / yer	**Date / tarih**	**TÜV SÜD / TÜRKEY**
Istanbul-TURKEY	02.11.2015	HAKKI OZLUK

TÜV SÜD Türkiye • Büyükdere Caddesi • No.103/A • Şarlı İş Merkezi • A Blok Kat.5 34394 Mecidiyeköy • İstanbul • Türkiye

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TÜV SÜD Industrie Service

CERTIFICATE

The Certification Body of
TÜV SÜD Industrie Service GmbH,
a Notified Body of the Pressure Equipment Directive (PED),

certifies that

Vastaş Valf Armatür Sanayi Tic A.Ş.
Organize Sanayi Bölgesi 2. cad. No: 20-22
Çerkezköy-Tekirdag, Turkey

implemented, operates and maintains a quality assurance system as described in the PED (97/23/EC) Annex III, Module H/H1

for the scope of

design, development and sales of valves above DN 25; gate, globe, ball, check, plug, butterfly and strainers; pressure air vessels for shut off and gas over hydraulic actuator systems

The audit with the report number Q-TR-PED-1210000596-01-15 proves that the quality assurance system fulfils the PED requirements.

The manufacturer is authorized to provide the pressure equipment produced within the scope of the assessed quality assurance system with the following Notified Body number:

CE 0036

Certificate No.: DGR-0036-QS-1072-15
Valid until March 19th, 2018

Mannheim, March 30th, 2015

Martina John
Notified Body No.: 0036
Member of
CONFÉDÉRATION EUROPÉENNE
CEOC
D'ORGANISMES DE CONTROLE

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Tel.: +49 621 39 51 15
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TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı — Description of the Mark
TSE veya/or TSE veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	001041-TSE-01/01
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	10.01.2005
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	10.01.2018
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	VASTAŞ VALF ARMATÜRSAN.TİC.AŞ.
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	H.RİFAT PAŞA MAH. YÜZER HAVUZ SK. NO:1 A /1977 ŞİŞLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	VASTAŞ VALF ARMATÜR SANAYİ VE TİCARET ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	ORGANİZE SANAYİ BÖLGESİ SABANCI CAD. NO:22 59500 ÇERKEZKÖY TEKİRDAĞ / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	14.31.34/TSE-7396
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	VASTAŞ
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS 7843 / Vanalar-Çelik-Petrol ve Doğal Gaz Boru Hatlarında Kullanılan (Sürgülü, Tapalı, Küresel ve Tek Yönlü Vanalar-Anma Basıncı PN 20'den PN 420'ye Kadar) / 13.03.2001

BELGE KAPSAMI
SCOPE OF LICENCE

SINIFI:PN 20(DN50-DN600); PN 50(DN50-DN600);PN 100(DN50-DN400); TİPİ: TAM GEÇİŞ YOLLU VEYA DARALTILMIŞ GEÇİŞ YOLLU VANALAR
- FLANŞ BAĞLANTILI VANALAR
TÜRÜ:AÇMA - KAPAMAELEMANINA GÖRE
- MİLİ EKSENEL HAREKETLİ,ESNEK BLOK SÜRGÜLÜ TEK DİSKLİ VANALAR
- TAM GEÇİŞLİ VEYA DARALTILMIŞ GEÇİŞ YOLLU KÜRESEL VANALAR
- NORMAL-TAM AÇILIR-UZUN MODEL TEK KLAPELİ VEYA KISA MODEL TEK KLAPELİ,TEK YÖNLÜ VANALAR

TÜRK STANDARDLARI ENSTİTÜSÜ İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ

02/2017
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1 / 1

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Tekirdag
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2014-156

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Standard **ISO 9001:2008**

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O.S.B. 2.Cad. No20-:22
Çerkezköy / Tekirdağ / Turkey

Scope: Design, Manufacturing and Servicing of Industrial Valves, Actuators and Gear Boxes

Proof has been furnished by means of an audit that the requirements of ISO 9001:2008 are met.

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Validity: The certificate is valid from 2015-12-28 until 2018-12-27.
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