VASTAS

VALVES & ACTUATORS

STRAINER

Basket Type, Bolted Cover, ASME B16.34 Design

CAT-E7-20R0

E7



NPS
6-32

DN
150-800

Class
150-1500

E7 SERIES – STRAINER

ASME B16.34

Carbon or Stainless Steel

Bolted Cover

Perforred Plate Screen

Basket Type

Flange End Type

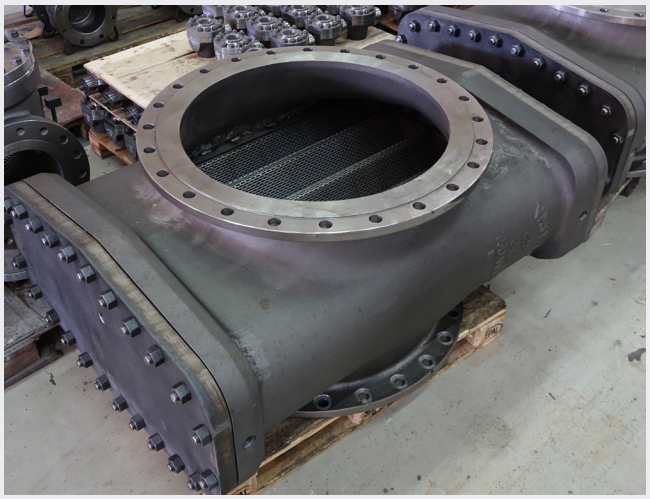
Features

Strainer is produced with fabricated or cast steel body and stainless steel trim from perforated plate and screen,ends being flanged to ASME B16.47 & ASME B16.5 or Buttwelding to ASME B16.25 and FTF-Dimension complying with ASME B16.10 standard.Fastaners (2H&B7) and Gaskets (SWG, NASF or316) upon request.

There are 2 pressure taps on strainers. One of them for upstream pressure, the other for downstream pressure. When the differential between them (ΔP) is maximum, trim parts need to be cleaned.

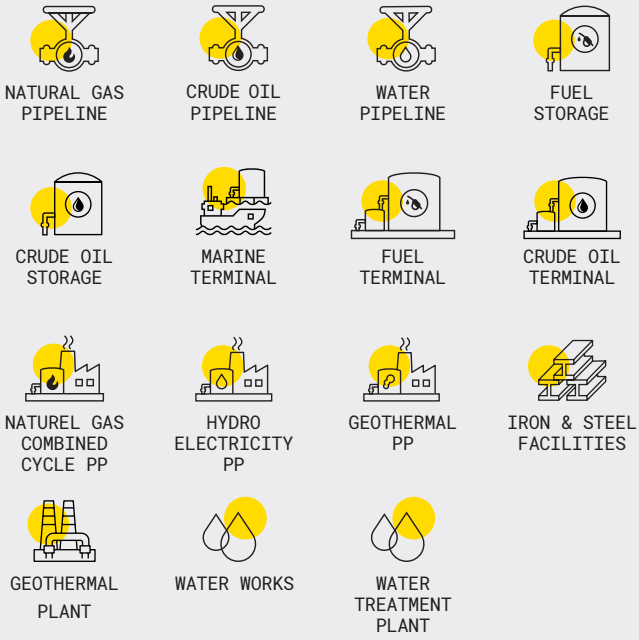
The flow is conveyed inside the body and inside the basket screen where particles larger than the mesh of screen are captured meanwhile the fluid passes through the screen and returns to pipeline.

	STANDARDS
Design	ASME B16.34
End Connection	ASME B16.47 Series A & B & ASME B16.5 or ASME B16.25
FTF & ETE	ASME B16.10
Test	API 598



32” Strainer

Project Types



Applications

Strainer is normally used for coarse filtration. Strainers are substantial components of pipeline that protects valves, pumps and other equipments which composes the pipeline from harmful effects, damages or clogging due to particles that may be carried by the process fluid. During system start-up and flushing, Strainers that are placed upstream of pumps to protect them from construction debris that may have been left in the pipe.The strainer is to remove unwanted particles from steam, gas, or liquid using a straining element typically made of wire mesh. It can be installed in a vertical or horizontal position.

Pressure Rating

Figure marks are indicated below for Vastas Strainer Valves, according to pressure classes.

See page 7 for figure description.

			PRESSURE		
Figure	Size	Class	MPa	Bar	Psig
E710	6"-32"	150	1,96	19,6	285
E720	6"-24"	300	5,11	51,1	740
E730	6"-24"	600	10,21	102,1	1480
E740	6"-24"	900	15,32	153,2	2220
E750	6"-24"	1500	25,53	255,3	3705

For ASME B16.34 Group 1.1 Material, -29 +38°C



24" Strainer

Coating & Painting

Vastas applies epoxy system for strainers to be located above ground with RAL7037 Aluminium color as standard.

Special paint systems can be applied acc.to costumers/specification apllies request;

- for OFF SHORE/corrosive atmosphere,ISO 12944 C5M certified paint system,
- Heat Resistant paint system up to 538°C,
- NORSOK 7B certified paint system for Submerged Valves,
- Pur coating for valves to be used underground.

Important Notice

If you receive this catalog as attachment of Vastas offer, please note that, this catalog includes standard product with standard options. The special requirements will be indicated at the offer and the proforma invoice, together with other supporting documents.

Offered options are supported with additional technical documents.

Licence & Approvals

Vastas Strainer are licenced for complying with

- Commitee Europe 2014/68/EU CE0408 TYPE H,H1



14” Strainer

Certificates

CERTIFICATE NAME	INSTITUTION	CERTIFICATE NUMBER
ISO 9001:2015	TUV Rheinland	01 100 032841
ISO 14001:2015	TUV Rheinland	01 104 031931
ISO 45001:2018	TUV Rheinland	01 113 030063
CE-0408	TUV Austria Services GMBH	ZSTS/SWZE/2190
Certificated of Comformity to Turkish Standards	Turkish Standard Institution	001041-TSE-01/01

Vastas Figure Description

XXX E7X0 X. XX

Size (NPS)

006: 6"
008: 8”
.
.
032: 32

Valve Fig.

E710: 150 Class
E720: 300 Class
E730: 600 Class
E740: 900 Class
E750: 1500 Class

End Type

W: Butt-Weld End
J: Ring Joint
-: Flanged

Body Material No:

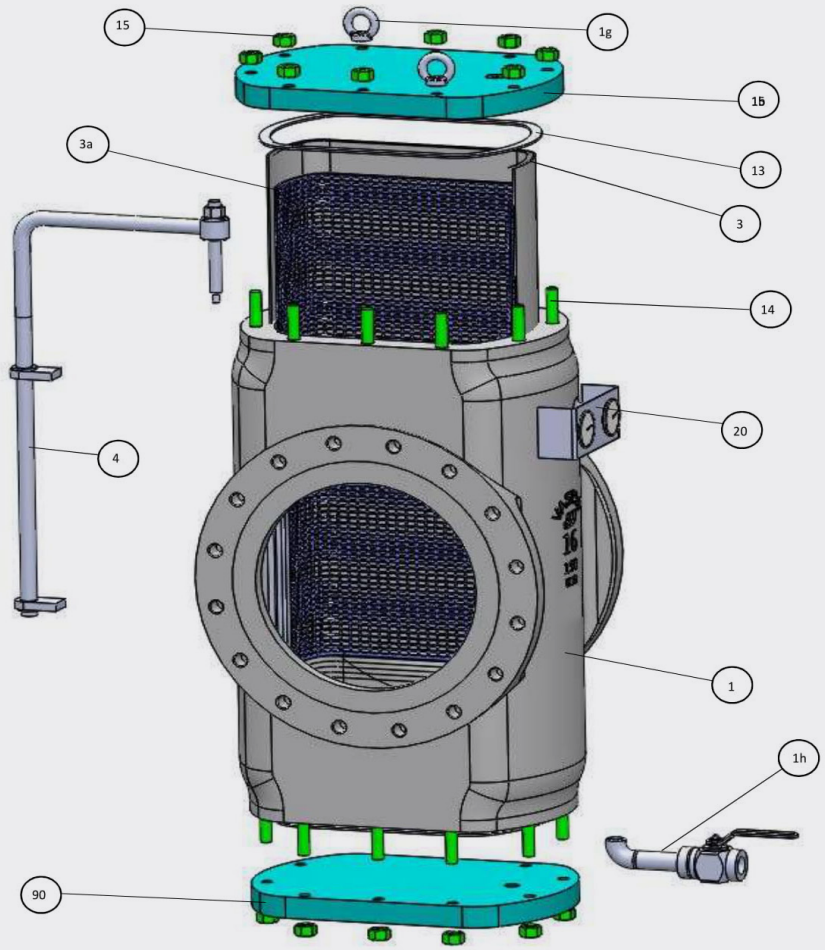
1: WCB/LCB
4: 316/CF3M/CF8C
5: C5
6: WC6
7: C12
9: WC9

Trim Material No:

2: 304,316

Materials of Consturuction

Cast steel bolted bonnet valves described in this catalog are typically manufactured of carbon steel (WCB). When specified, the valves are available in the alloys shown here which are suitable for water, oil, gas and general services. Please contact us for availability and material breakdowns.



Part List For E7

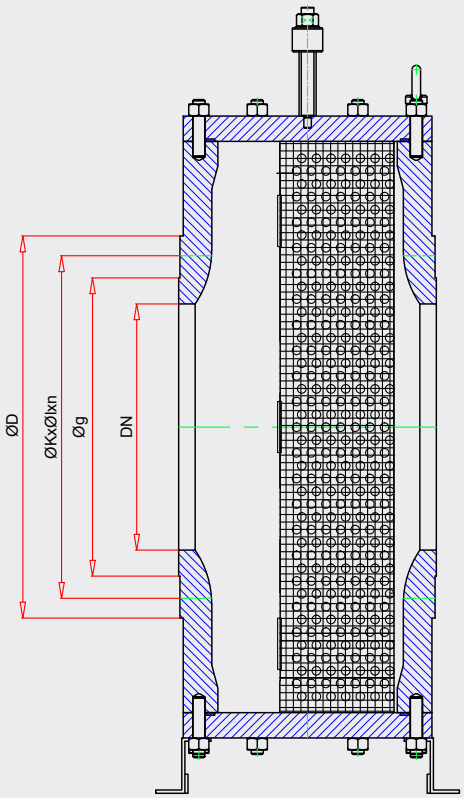
Item	Part Name	Symbol	Material
1	Body	WCB-WCC	ASTM A216 Gr.WCB-WCC
1b	Bonnet	A 515	ASTM A515
1g	Mapa	St.	Steel
1h	Drain Plug	13Cr	AISI 420
3	Perforated Plate	316	AISI 316
3a	Screen	316	AISI 316L
4	Davit	St.	Steel
13	"Gasket(For#150) Gasket(For#300 and above)"	"NASF SWG-316"	"Non Asb.Syn.Fiber Graphite+AISI 304 AISI 316"

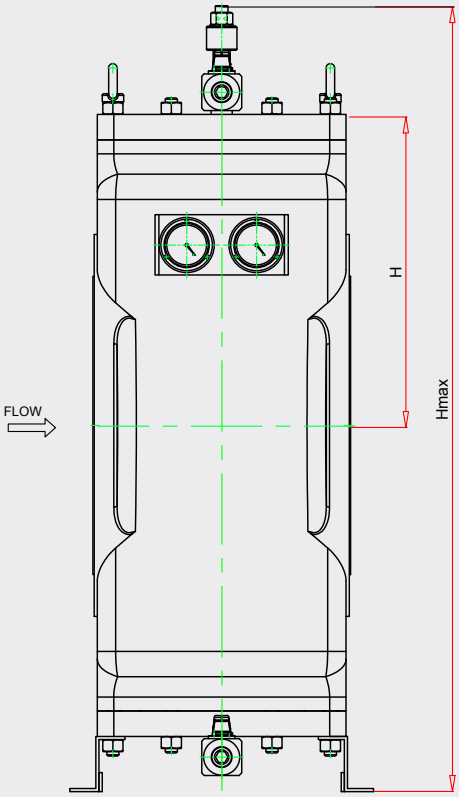
Item	Part Name	Symbol	Material
14	StudBolt	B7	ASTM A193 Gr.B7
15	Nut	2H	ASTM A194 Gr.2H
	Name Plate	430	AISI 430
	Paint	Ep	Epoxy
	End Cover	PVC	Plastic
20	Manometre	St.	Steel
90	Cover	A 515	ASTM A515

Figure: E710

Class: 150

	STANDARDS
Design	ASME B16.34
Face to Face	ASME B16.10
Flange	ASME B16.47 (Series A) & ASME B16.5





Test Pressure

PN	Class	Shell
20	150	30 Bar

Working Pressure (for group 1 materials)

-29+38°C	+425°C Max
19.6 Bar	5.5 Bar

Dimensions & Weight

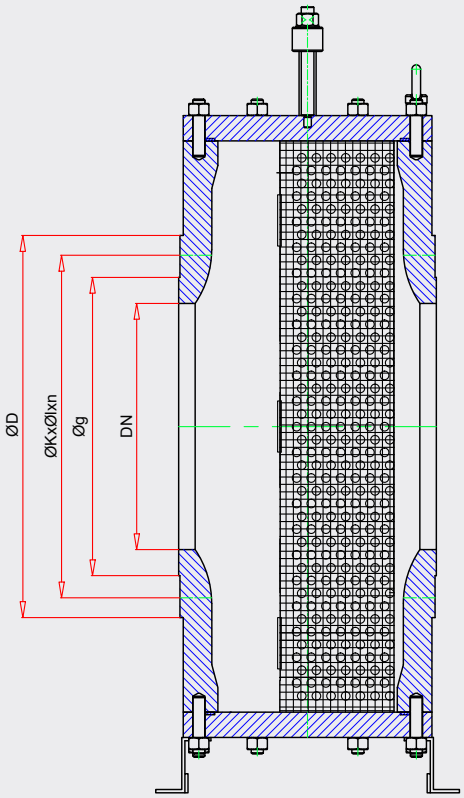
NPS	ØD	b*	Øg	K	n	I	L	H (~)	Hmax (~)	Wt
inch	mm	m	m	mm	No	mm	mm	mm	mm	(~) kg
6	280	24	216	241.3	8	22	267	310	850	171
8	345	27	270	299	8	22	292	350	1000	177
10	405	29	324	362	12	25	330	400	1150	183
12	485	30.2	381	432	12	25	356	440	1250	231
14	535	33.4	413	476.3	12	29	381	480	1600	292
16	595	35	470	540	16	29	406	620	1750	488
18	635	38.1	533	578	16	32	432	700	1850	620
20	700	41.3	584	635	20	32	457	800	2000	749
24	815	46.1	692	749.3	20	35	508	950	2150	858
28	925	70	800	864	28	35	610	1050	2300	1124
30	985	73.1	857	914.4	28	35	610	1100	2400	1461
32	1060	79.4	914	978	28	41	711	1280	2800	1540

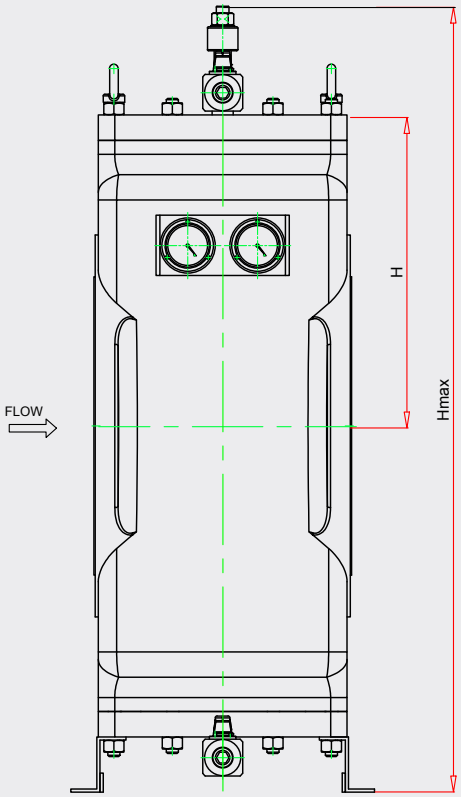
Note: * "b" dimension is thickness of flange

Figure: E720

Class: 300

	STANDARDS
Design	ASME B16.34
Face to Face	ASME B16.10
Flange	ASME B16.5





Test Pressure

PN	Class	Shell
50	300Bar	77 Bar

Working Pressure (for group 1 materials)

-29+38°C	+425°C Max
51.1 Bar	28.8 Bar

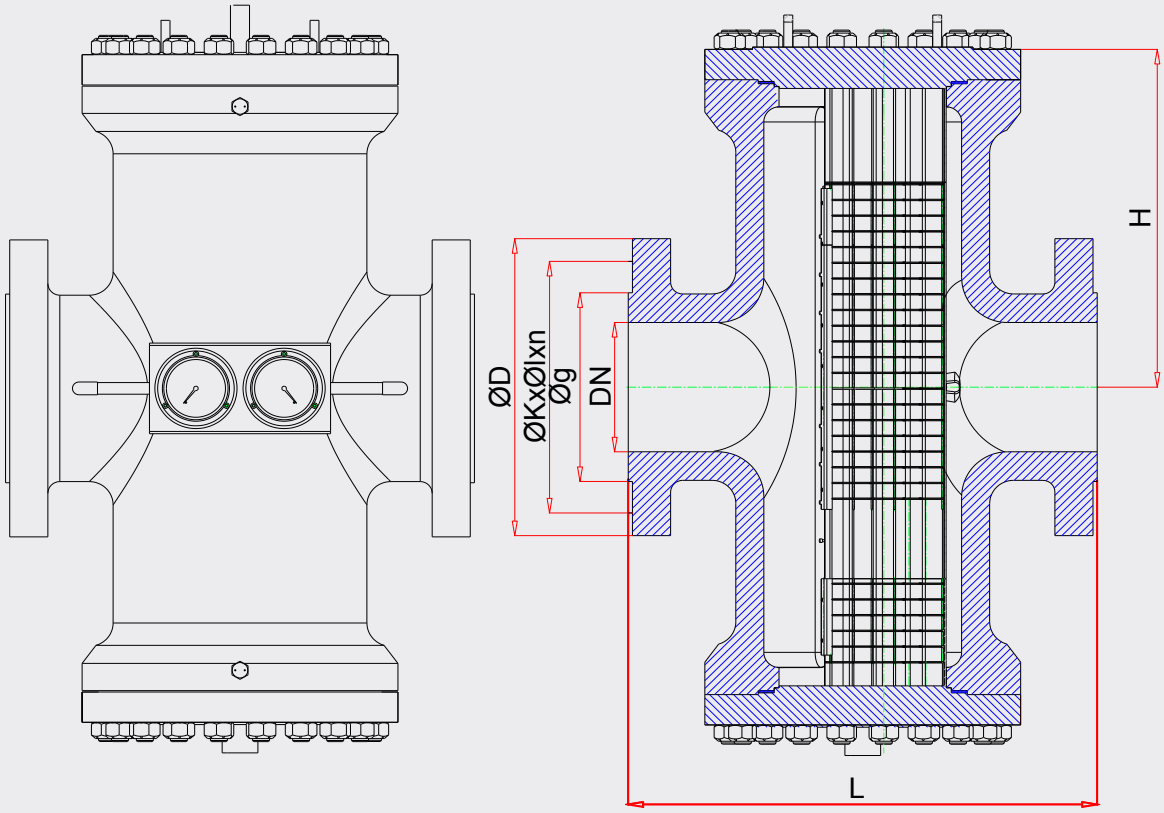
Dimensions & Weight

NPS	ØD	b*	Øg	K	n	I	L	H (~)	Hmax (~)	Wt
inch	mm	m	m	mm	No	mm	mm	mm	mm	(~) kg
6	320	35	216	270	12	22	403	310	850	248
8	380	40	270	330	12	25	419	350	1000	257
10	445	46.1	324	387.4	16	29	457	400	1150	332
12	520	49.3	381	451	16	32	502	440	1250	419
14	585	52.4	413	514.4	20	32	762	480	1600	841
16	650	56	470	572	20	35	838	620	1750	1212
18	710	59	533	629	24	35	914	700	1850	1274
20	775	62	584	686	24	35	991	800	2000	1656
24	915	68.3	692	813	24	41	1143	950	2150	2625

Note: * “b” dimension is thickness of flange

Figure: E730
Class: 600

STANDARDS	
Design	ASME B16.34
Face to Face	ASME B16.10
Flange	ASME B16.5



Test Pressure

PN	Class	Shell
100	600	153 bar

Working Pressure (for group 1 materials)

-29+38°C	+425°C Max
102.1 Bar	57.5 Bar

Dimensions & Weight

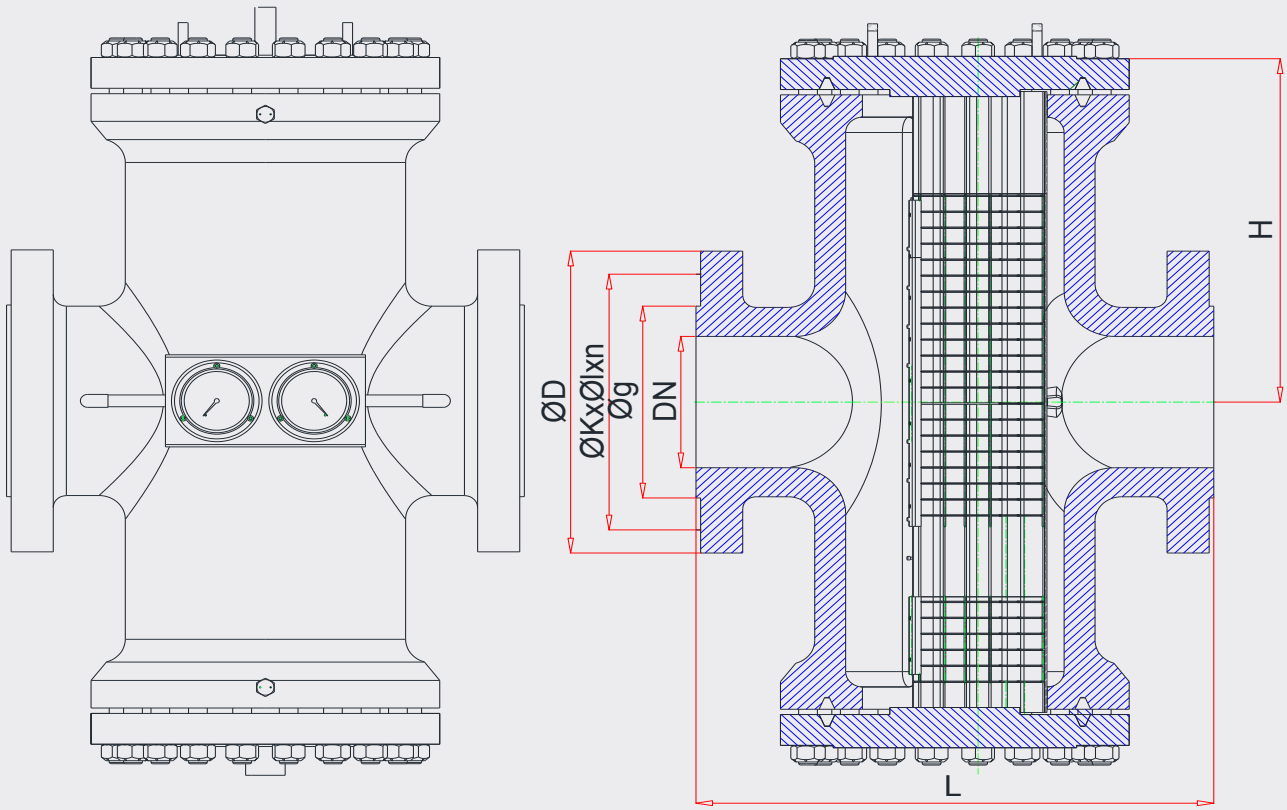
NPS	ØD	b*	Øg	K	n	I	L	H (~)	Hmax (~)	Wt
inch	mm	m	m	mm	No	mm	mm	mm	mm	(~) kg
6	355	48	216	292	12	29	559	350	900	345
8	420	56	270	349	12	32	660	400	1100	357
10	510	64	324	432	16	35	787	440	1250	461
12	560	67	381	489	20	35	838	500	1375	818
14	605	70	413	527	20	38	889	530	1800	1364
16	685	76	470	603	20	41	991	690	1900	1455
18	745	83	533	654	20	44	1092	770	2000	1921
20	815	89	584	724	24	44	1194	880	2200	2535
24	940	102	692	838	24	51	1397	1050	2350	3346

Note: * “b” dimension is thickness of flange

Figure: E740

Class: 900

	STANDARDS
Design	ASME B16.34
Face to Face	ASME B16.10
Flange	ASME B16.5



Test Pressure

PN	Class	Shell
150	900	230 bar

Working Pressure (for group 1 materials)

-29+38°C	+425°C Max
153.2 Bar	86.3 Bar

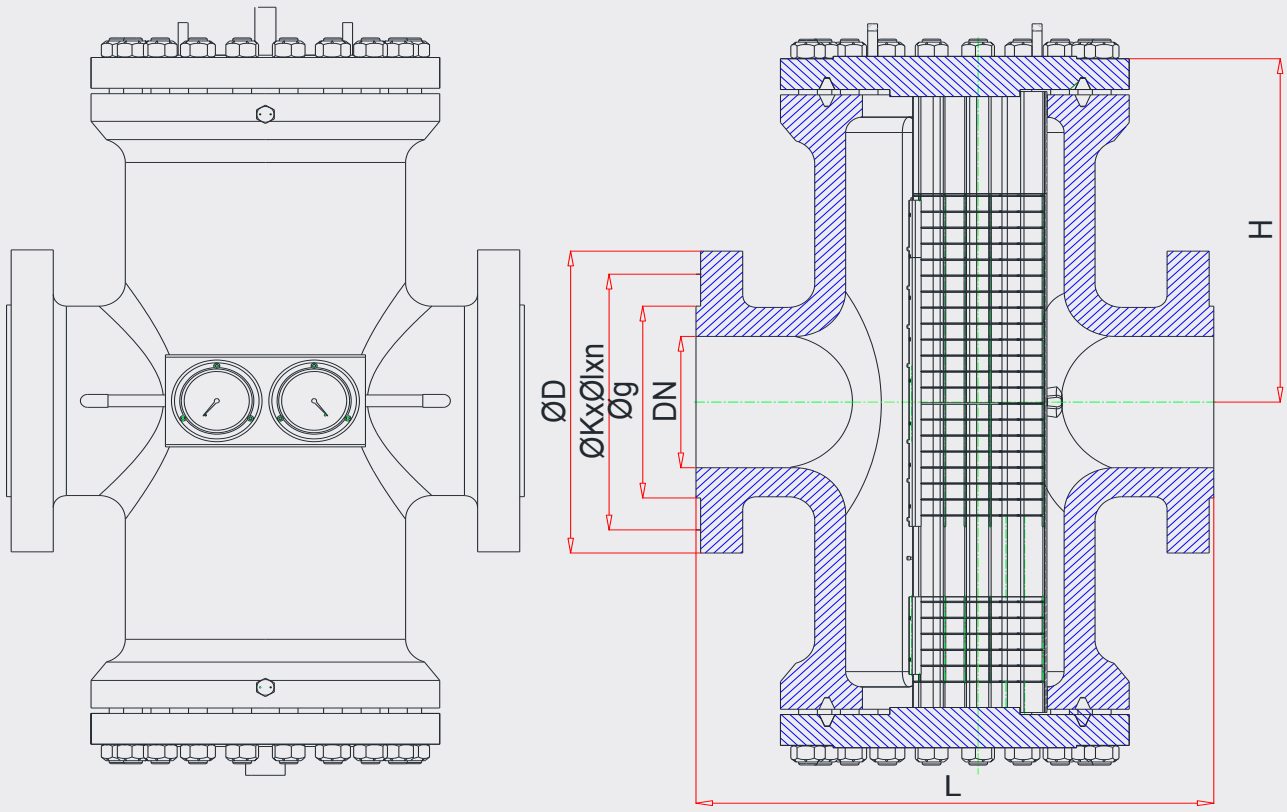
Dimensions & Weight

NPS	ØD	b*	Øg	K	n	I	L	H (~)	Hmax (~)	Wt
inch	mm	m	m	mm	No	mm	mm	mm	mm	(~) kg
6	380	56	216	318	12	32	610	400	990	480
8	470	64	270	394	12	38	737	460	1150	497
10	545	70	324	470	16	38	838	500	1375	641
12	610	80	381	533	20	38	965	590	1500	1137
14	640	86	413	559	20	41	1029	610	1950	1896
16	705	89	470	616	20	44	1130	760	2100	2022
18	785	102	533	686	20	51	1219	840	2200	2670
20	855	108	584	749	20	54	1321	970	2400	3524
24	1040	140	641	902	20	67	1549	1200	2500	4652

Note: * "b" dimension is thickness of flange

Figure: E750
Class: 1500

STANDARDS	
Design	ASME B16.34
Face to Face	ASME B16.10
Flange	ASME B16.5



Test Pressure

PN	Class	Shell
250	1500	383 bar

Working Pressure (for group 1 materials)

-29+38°C	+425°C Max
255.3 Bar	143.8 Bar

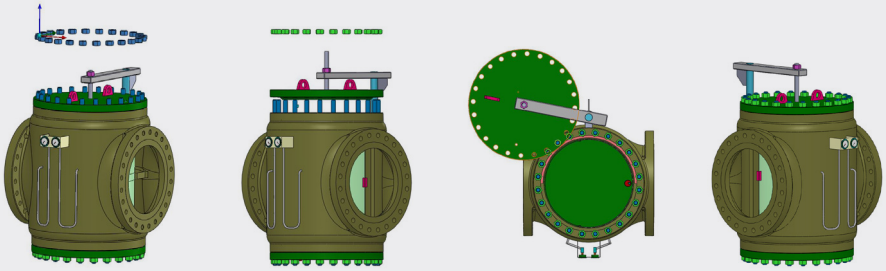
Dimensions & Weight

NPS	ØD	b*	Øg	K	n	I	L	H (~)	Hmax (~)	Wt
inch	mm	m	m	mm	No	mm	mm	mm	mm	(~) kg
6	395	83	216	318	12	38	705	490	1160	533
8	485	92	270	394	12	44	832	560	1300	692
10	585	108	324	483	12	51	991	600	1450	900
12	675	124	381	572	16	54	1130	650	1650	1783
14	750	133.4	413	635	16	60	1257	675	2100	2336
16	825	146.	470	705	16	67	1384	840	2300	3060
18	915	162	533	775	16	73	1537	920	2400	4009
20	985	178	584	832	16	83	1664	1100	2600	5252
24	1170	203.2	641	991	16	92	1943	1320	2750	6880

Note: * “b” dimension is thickness of flange

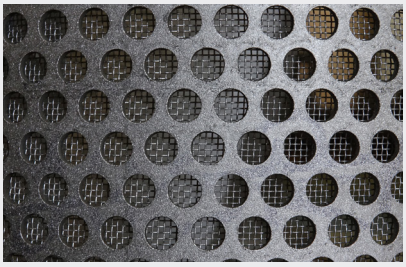
Optional Requirements

Davit: Strainer can be manufactured with Davit. Strainer requires cleaning frequently. As a result of this, cover needs to remove more often than other types of valves. Davit is a supplementary equipment to open heavy cover of strainer easily.



Screen: Strainer has perforated plate in any case. If product requires sensibility for smaller grains, screen provides tightness for them. Mesh size is selected according to potential dirt volume.





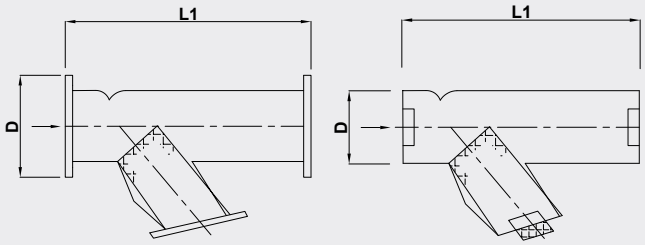
Mesh (Micron) Table

Mesh Number	Microns	Mm
10	2000	2.000
12	1680	1.680
14	1410	1.410
16	1190	1.190
18	1000	1.000
20	840	0.840
25	710	0.710
30	590	0.590
35	500	0.500
40	420	0.420
45	350	0.350
50	297	0.300
60	250	0.250
70	210	0.210
80	177	0.177
100	149	0.149
120	125	0.125
140	105	0.105
170	88	0.088
200	74	0.074

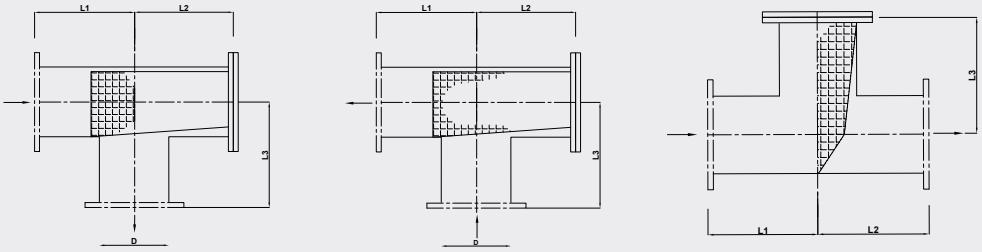


24” Perforated

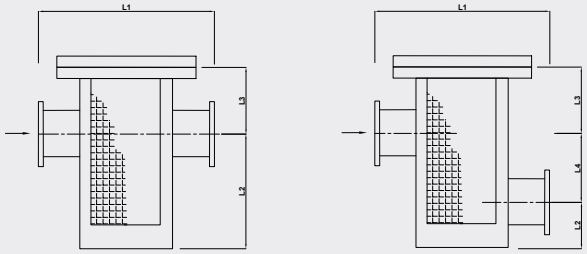
STRAINER TYPES



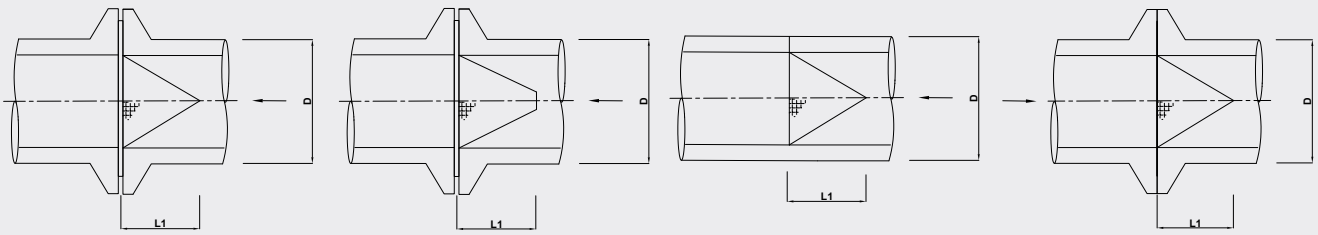
Y TYPE-1 Y TYPE-2



T TYPE-1 T TYPE-2 T TYPE-3

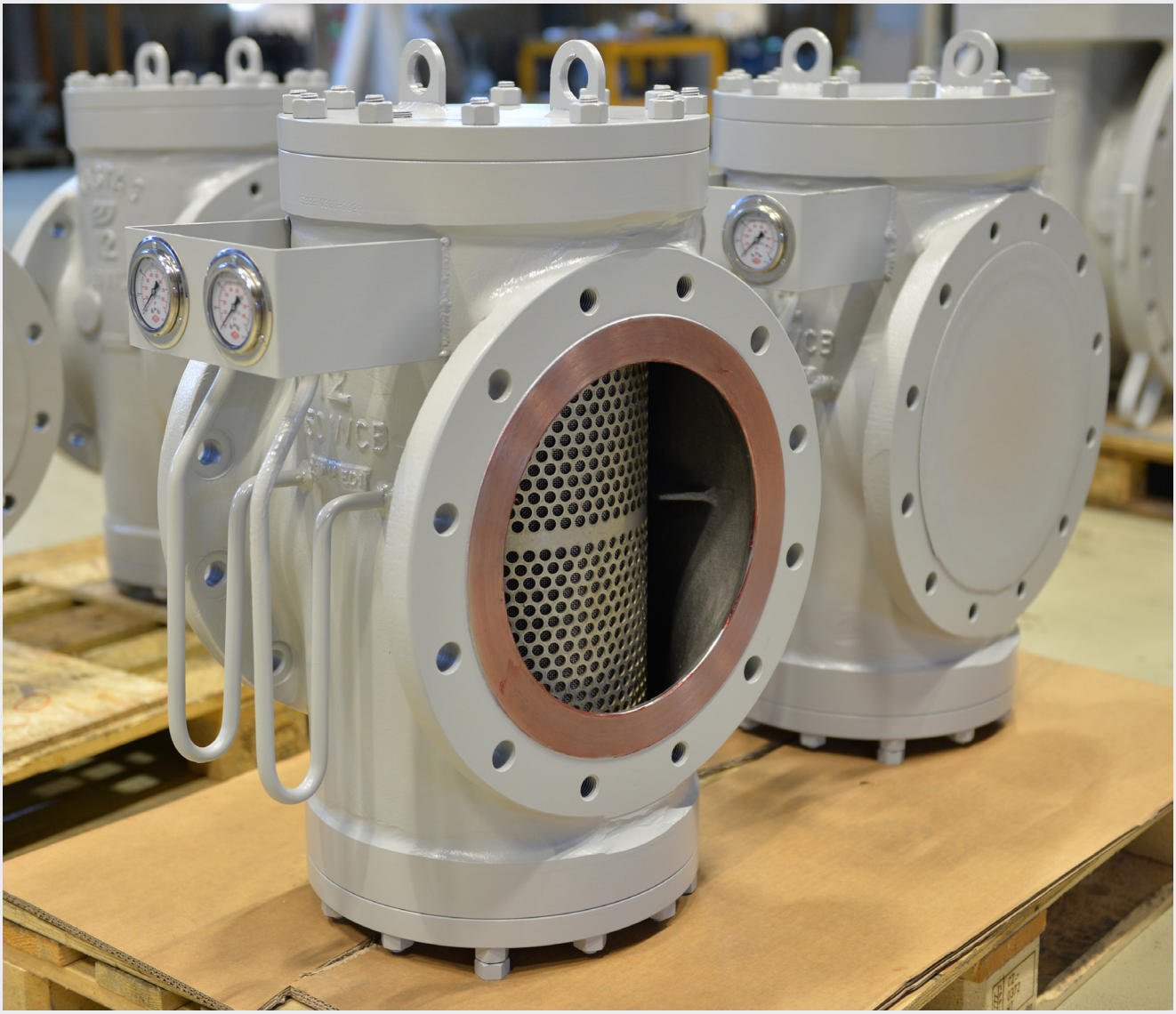


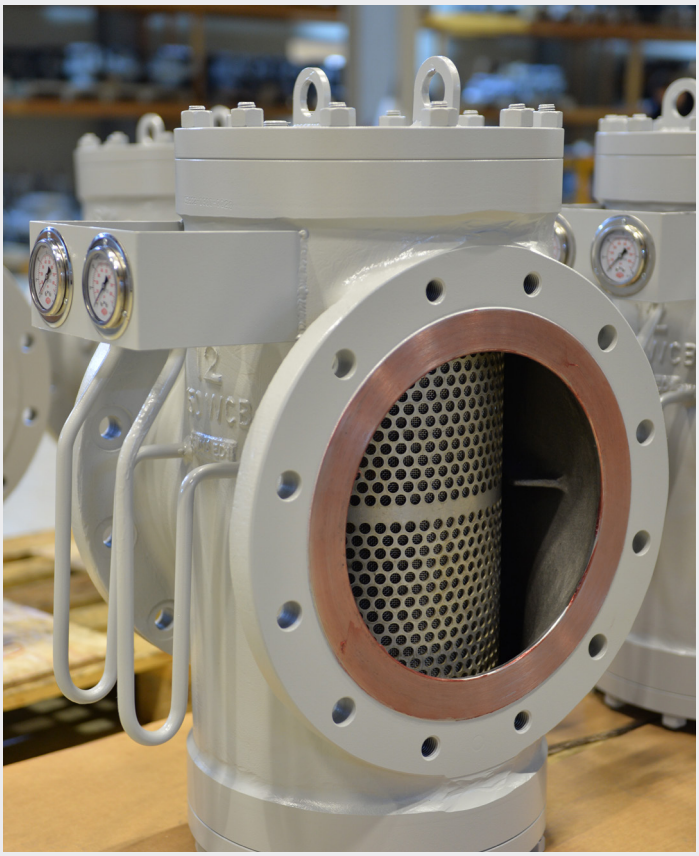
B TYPE-1 B TYPE-2

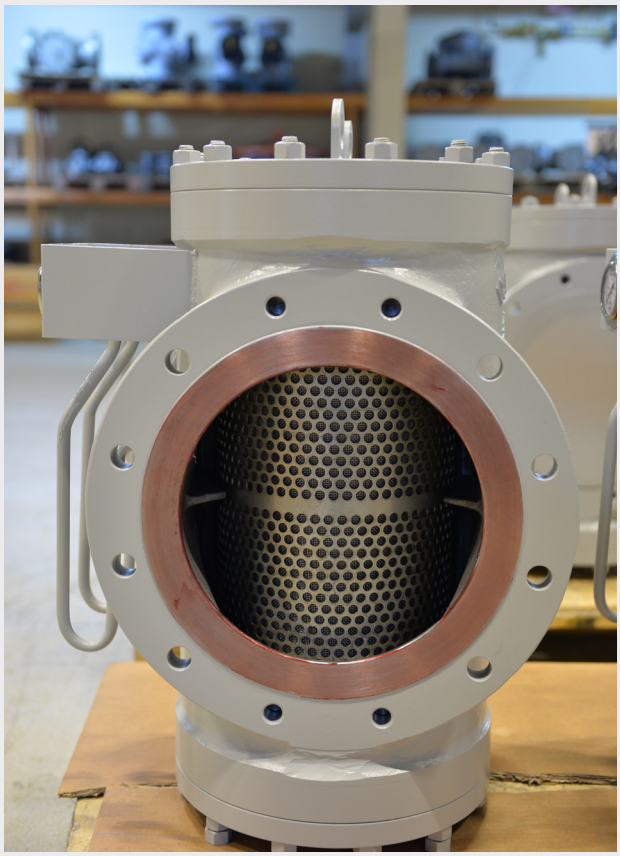


C TYPE-1 C TYPE-2 C TYPE-3 C TYPE-4

* : With spacer ring which is used for fill up the gap due to conical shape.








VASTAS
12
300 WCB


VASTAS
14
300 WCB
VASTAS
24
300 WCB

REFERENCE PROJECTS, E7

Kadoil, Storage Plant (Bulk Fuel)	KADOIL	Fuel Oil Storage	Turkey	12"	2008
BP Sangachal Terminal	BP	Fuel Oil Storage	Azarbaijan	20"	2010
Erbil Tank Farm	Erbil Tank Farm	Natural Gas Transportation	Iraq	12"	2010
150 MW NOORo III Concentrating Solar Power (CSP) Project	Moroccan Agency for Solar Energy	Power Plant	Morocco	10"-24"	2016
Denizli - Sarayköy Jeothermal Plant 1-2	Greeneco	Jeothermal	Turkey	8"-32"	2016
KEN-I JES 24 MW Geothermal Power Plant	KEN Kipas	Jeothermal	Turkey	10"-24"	2016

E7 REFERENCE, CLIENT LIST

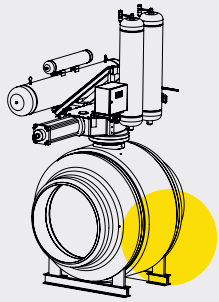
- BP, Azerbaijan
- BP, Turkey
- Erbil Tank Farm, Iraq
- Greeneco, Turkey
- IGA, Turkey
- KADOIL, Turkey

Mehmethan Jeothermal	Maren Maras	Jeothermal	Turkey	10"-24"	2016
JES 2	Greeneco	Jeothermal	Turkey	12"	2016
Azerbaijan Qafqaz Trans Service MMC	BP	CO-Transportation	Turkey	20"	2016
Kubilay 24 MW Geothermal Power Plant	Bestepeler	Jeothermal	Turkey	20"	2017
Melih JES 33 MW Geothermal Power Plant	Maren Maras	Jeothermal	Turkey	18"-30"	2017
IGA Airport	IGA	Jet Fuel Tank Farm	Turkey	6"-16"	2018

- Kipas Holding, Turkey
- Maren Maras, Turkey
- Masen, Morocco

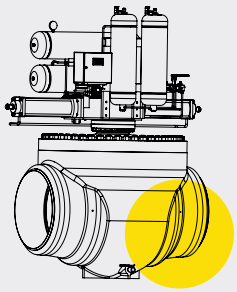
PRODUCT RANGE

Main Product Range are Ball Valves, Gate Valves , Check Valves, Globe Valves, Plug Valves, Hydraulic Actuators & Pneumatic Actuators.



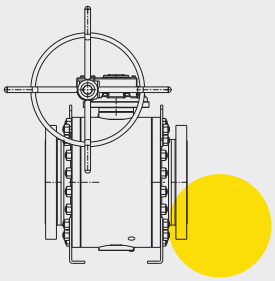
FULL WELDED BALL VALVES

API 6D monogrammed
Safety Integrity Level
(SIL) 2 & 3, ATEX, PED



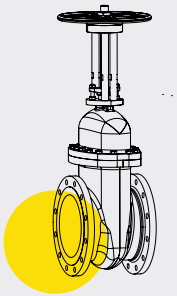
TOP ENTRY BALL VALVE

API 6D monogrammed
Safety Integrity Level (SIL)
2 & 3, ATEX, PED



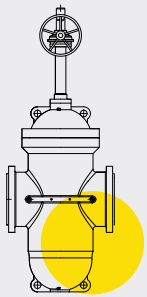
SPLIT BODY BALL VALVES

API 6D monogrammed
Safety Integrity Level (SIL)
2 & 3, ATEX, PED



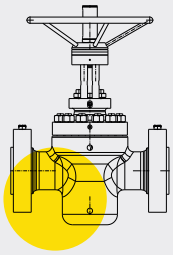
WEDGE GATE VALVES

API 600 monogrammed
Safety Integrity Level (SIL) 2 & 3,
ATEX, PED



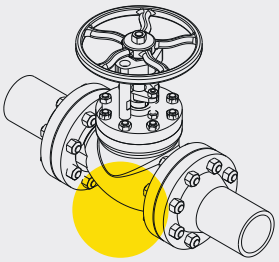
CONDUIT GATE VALVES

API 6D monogrammed
Safety Integrity Level (SIL) 2 & 3,
ATEX, PED



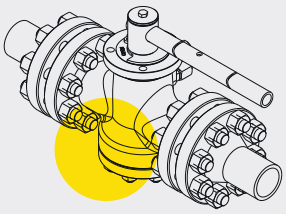
API 6A GATE VALVES

API 6A monogrammed
Safety Integrity Level (SIL)
2 & 3, ATEX, PED



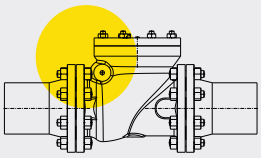
GLOBE VALVES

BS 1873 / API 623
Safety Integrity Level (SIL)
2 & 3, ATEX, PED



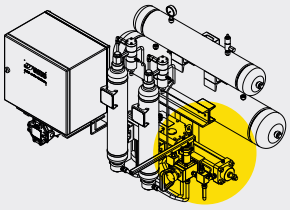
PLUG VALVES

API 6D monogrammed
ATEX, PED



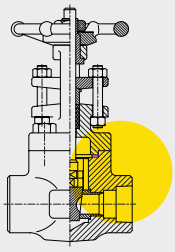
CHECK VALVES

API 6D monogrammed
ATEX, PED



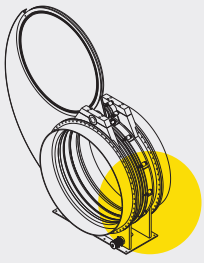
HYDRAULIC & PNEUMATIC ACTUATORS

ASME U-Stamp, Safety Integrity
Level (SIL) 2 & 3, ATEX, PED



COMPACT FORGED VALVES

API 6D / API 602 / API 608/ BS 5352
/ISO 17292
Safety Integrity Level (SIL)
2 & 3, (E604 & E60T)



TAILOR MADE

As a designing and manufacturing company we are not limited with the product range, we offer tailor made valve and actuator solutions as well.

VALVES & ACTUATORS

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