

WEDGE GATE VALVES

Flexible Wedge, Bolted Bonnet, Outside Screwed & Yoke, Rising Stem, API 600 Design

E500

CAT-E500-20R0



NPS
2-72

DN
50-1800

Class
150- 2500

E5 SERIES – GATE VALVES

WEDGE GATE VALVE

API 600

Flexible Wedge

Carbon Steel or
Stainless Steel

Bolted Bonnet

Outside Screwed &
Yoke

Rising Stem

Full Bore

Features

Wedge Gate Valves are commonly used as on-off and isolation valves in oil, gas, water, sea water and steam lines. They are used fully open or fully close and not suitable for throttling.

Vastas Wedge Gate Valves are API 600 licensed and SIL 2&3 certified. They are used as pipeline valves, shut-off valves, isolation valves, drain valves, vent valves and service valves.

Wedge Gate Valves are produced with steel body and stainless trim (API Trim No 8 as standard), ends being flanged to ASME B16.5 & B16.47 and FTF-Dimension complying with ASME B16.10 standard.

Customization:

Vastas is a designer, manufacturer and service provider.

This catalogue shows the standard products but with Vastas capabilities it is possible to customize or require tailor-made.

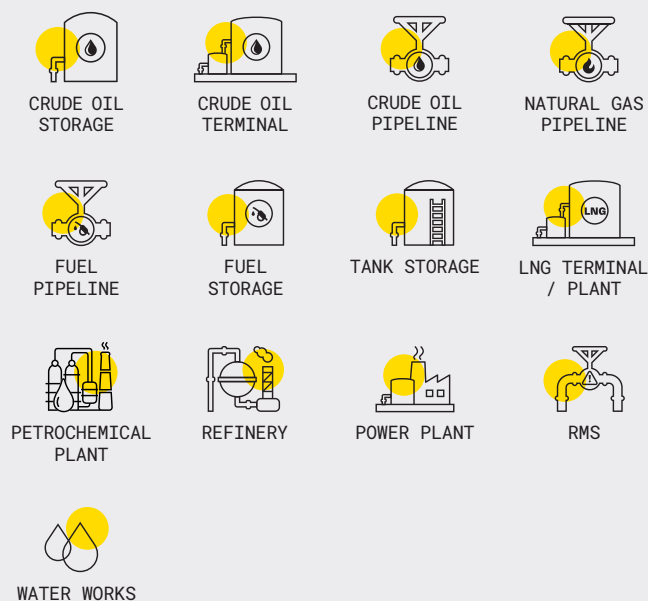
- Wedge Gate Valves for high pressure and/or high temperature services. It is important to make the material selection according to the fluid corrosion.
- Big size and/or different/special material Wedge Gate Valves.
- Special material according to NACE corrosion standards and/or temperature class.

STANDARDS	
Design	API 600
End Connection	ASME B16.47 Series A & B & ASME B16.5 or ASME B16.25
FTF & ETE	ASME B16.10
Test	API 598



Manuel Operated Wedge Gate Valves with Gearbox

Project Types



Applications

Suitable for general application as on/off and isolation valves, not recommended for throttling and/or regulating purposes. They have excellent resistance to earthquake, shocks, vibration, pressure & strokes and can be operated soundly between -29°C to 425°C.

Pressure Rating

The figures at this table are Vastas figures and they indicate pressure class among other specifications.

See page 7 for figure description.

Figure	Size	Class	PRESSURE		
			MPa	Bar	Psig
E510.13	2"-72"	150	2.0	20	285
E520.13	2"-48"	300	5.1	51	740
E530.13	2"-36"	600	10.2	102	1480
E540.13	2"-24"	900	15.3	153	2220
E550J.13	2"-16"	1500	25.5	255	3705
E560J.13	2"-12"	2500	42.5	425	6170

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

Optional End Connection

If requested, valve can be supplied with Butt-Weld ends according to ASME B16.25.

High Temperature

Valves made of special alloyed steel are offered for high temperatures max. 593°C.

Stellite™

CoCr-A faced seat faces are offered for high temperature valves upon request.

Stellite is a trademarked name of Kennametal Inc.

By-pass

In order to decrease the effects of differential pressure, by-pass connection may be added, even supplementary line out of valve is recommended, for extra-large valves.

Sealing of Flanged Connections

When required Vastas offers gaskets for sealing of flanged connections. These are made of non-asbestos materials and fireproof including class. Spiral wound SS316 & Grafoil or RJ type are used for high classes.

Coating

Vastas applies epoxy paint system for valves to be located above ground / onshore with the RAL7037 aluminium color as standard.

Special coating and/or paint options according to customer's request, our applications include:

- ISO 12944 C5M certified paint system for offshore/corrosive atmosphere.
- Heat resistant paint system up to 538°C.
- NORSOK 7B certified paint system for submerged Valves.
- PUR coating for valves to be used underground.



Optional End Connection

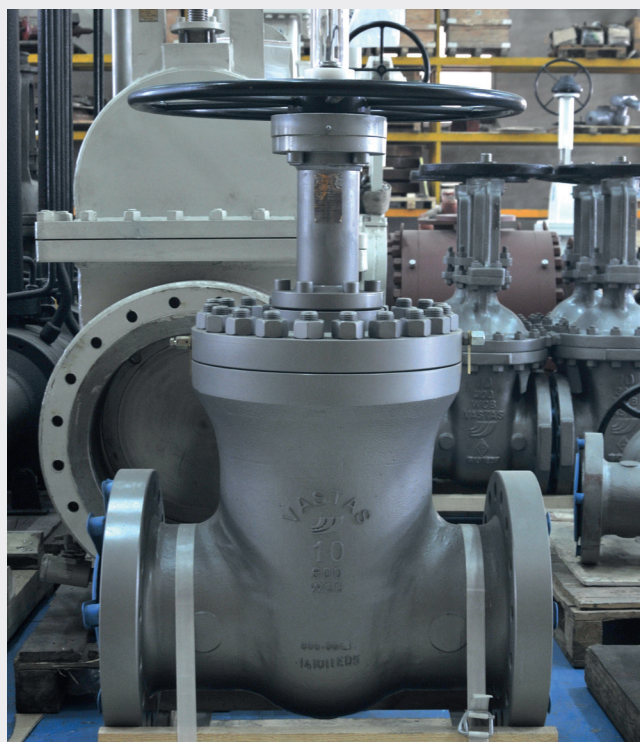
Important Notice

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 Wedge Gate Valves are licenced for application of API Monogram(API 600-0043)
- SIL Certificate IEC61508 IEC61511
- Fire Safe Design as per API 6FA and ISO10497
- Fugitive Emission Test Certificate as per ISO15848
- Low Temperature Test Certificate
- Committee Europe 2014/68/EU-CE 0408
- Conformity Certificate as per NACE 0175&0103



Manual Operated Gate Valves with Handwheel

Certificates

CERTIFICATE NAME	INSTITUTION	CERTIFICATE NUMBER
API-600	American Petroleum Institute	600-0043
ATEX-Certificate Conformity to Ex	Energy Petroleum Institute	IEP 17 EX 10013
ATEX-Internal Production Control Certificate	Energy Petroleum Institute	IEP 17 ATEX 0512X
Nace Certificate	TUV SUD Turkey	15-B-00828
SIL 2&3 Certificate	TUV Rheinland	V 523.01/16
ISO 9001:2015	TUV Rheinland	01 100 032841
ISO 14001:2015	TUV Rheinland	01 104 031931
ISO 45001:2018	TUV Rheinland	01 113 030063
Fire Test Certificate	TUV Austria Turk	19-IS-0319-FCT-0569
Fugitive Emission Type Test	TUV SUD Turkey	17-IS-0290-34-B/04
CE-0408	TUV Austria Services GMBH	ZSTS/SWZE/2190
Certificate of Conformity to Turkish Standarts	Turkish Standart Institution	001041-TSE-01/01

Vastas Figure Description

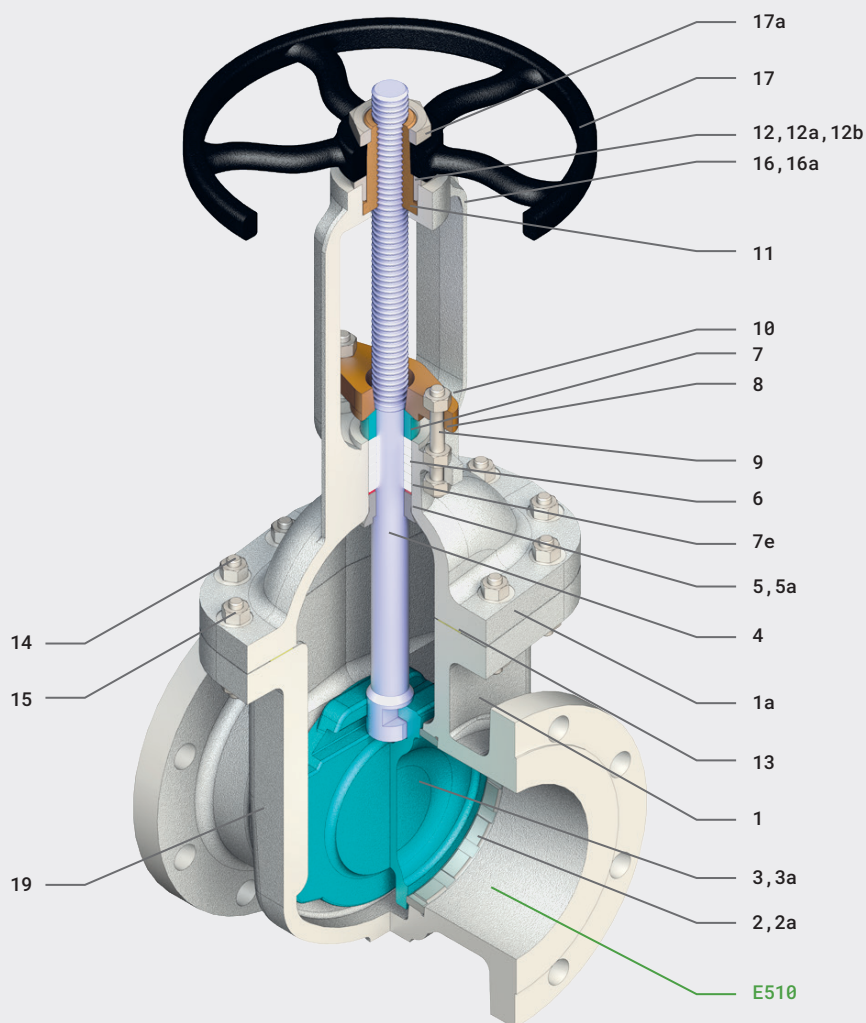
XXX E5X0X. XX

Size (NPS) 002:2" 003:3" . . . 072:72" Valve Fig. E510: 150 Class E520: 300 Class E530: 600 Class E540: 900 Class E550: 1500 Class E560: 2500 Class End Type W: Butt-Weld End J: Ring Joint Body Material No: 1: WCB/LCB 2: CF8/CF3 3: CE3MN(5A)/CD3MWCuN(6A) 4: CF8M/CF3M/CF8C 5: C5 6: WC6 7: C12 9: WC9 Trim Material No: 2: 316 / 316 3⁽¹⁾: 13Cr / HF* 4: 316 / HF 5: HF / HF 6: 316+HF / 316+HF 7: Alloy 20 / Alloy 20 - ASTM A351 8: C276 / C276 - ASTM A494 9: Monel	
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(1): Standard offer
*HF: Hard facing is weld deposited Cobalt base alloy (STL)

Note: For seating surfaces, coatings carried out using HVOF (High Velocity Oxygen Fuel) process, such as TCC or CCC is optional.

Materials of Construction
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 E510.13

Item	Part Name	Symbol	Material
1	Body	WCB	ASTM A216 Gr. WCB
1a	Bonnet	WCB	ASTM A216 Gr. WCB
	Bonnet	A515	ASTM A515
2	Body Seat Ring	A105	ASTM A105
2a	Body Seat Face	STL	AWS A5.13 ER CoCr-A
3	Wedge	WCB	ASTM A216 Gr. WCB
3a	Wedge Seat Face	13Cr	AWS ER420
4	Stem	13Cr	ASTM A276 T410 or T420
5	Back Ring	13Cr	ASTM A276 T410 or T420
5a	Back Ring Face	INT	INTEGRAL
6	Packing	GRF	GRAPHITE
7	Gland	13Cr	ASTM A276 T410 or T420
7e	Washer	ST	Steel
8	Gland Flange	WCB	ASTM A216 Gr. WCB
9	Gland Bolt	B7	ASTM A193 Gr. B7
10	Gland Nut	2H	ASTM A194 Gr. 2H

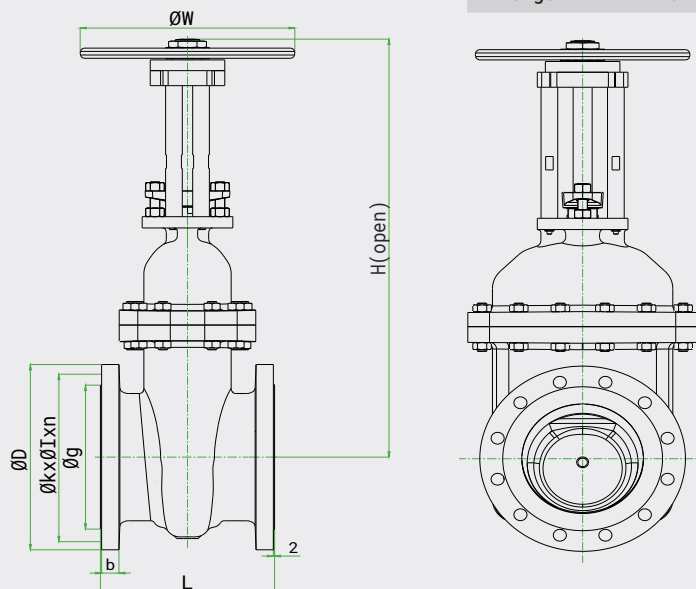
Item	Part Name	Symbol	Material
11	Stem Bushing	BZ	ASTM B148
12	Bushing Nut	B	ASTM A307 Gr. B
12a	Flange	ST	Steel
12b	Bolt	B	ASTM A307 Gr. B
13	Gasket	NASF	Non Asbestos S. Fb.
14	Stud Bolt	B7	ASTM A193 Gr. B7
15	Nut	2H	ASTM A194 Gr. 2H
16	Grease Fitting	ST	Steel
16a	Set Screw	B	ASTM A307 Gr. B
17	Handwheel	DI	ASTM A536
17a	Wheel Nut	B	ASTM A307 Gr. B
18	Name Plate	SP	AISI 430
19	Paint	EP	EPOXY RAL 7037
19a	End Cover	PVC	PLASTIC

Figure: E510

Class: 150

STANDARDS

Design	API 600
Face to Face	ASME B16.10
Flange	ASME B16.47 Series A & ASME B16.5



Test Pressure

PN	Class	Shell	Closure	Air
20	150	30 Bar	22 Bar	6 Bar

Working Pressure (for group 1.1 materials)

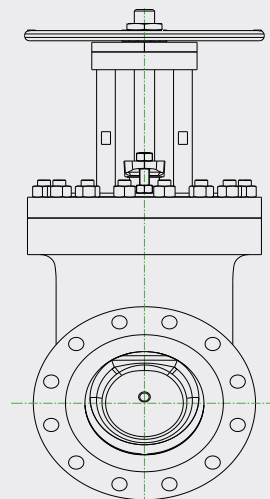
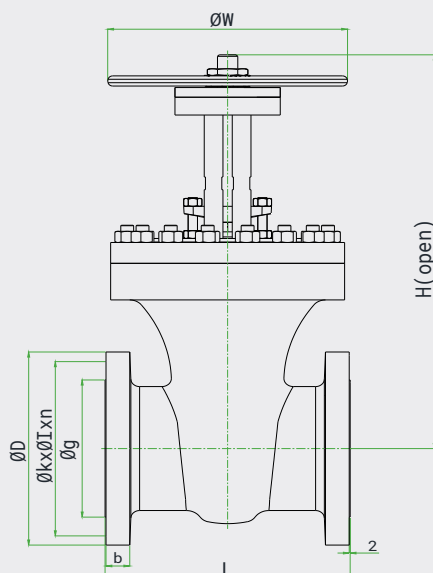
-29 +38°C	+425°C Max
19.6 Bar	5.5 Bar

Dimensions & Weight

NPS	ØID	Kv	Torque	Thrust	Turn	ØD	b	Øg	Øk	n	ØI	L	H	W	~ Wt
inch	mm	m³/h	Nm	kN	No	mm	mm	mm	mm	no	mm	mm	mm	mm	kg
2	51	240	15	7	17	150	14.3	92	121	4	19	178	370	210	20
3	76	520	21	10	23	190	17.5	127	152	4	19	203	450	265	34
4	102	970	33	14	25	230	22.5	157	191	8	19	229	550	265	54
6	152	2150	59	22	34	280	23.9	216	241	8	22	267	780	360	86
8	203	3850	100	33	44	345	27	270	299	8	22	292	975	410	142
10	254	6000	156	47	47	405	28.6	324	362	12	25	330	1275	460	213
12	305	8600	229	63	54	485	30.2	381	432	12	25	356	1425	460	310
14	336	10600	307	77	60	535	33.4	413	476	12	29	381	1620	610	392
16	387	14000	386	97	70	595	35	470	540	16	29	406	1800	610	500
18	438	17000	562	123	78	635	38.1	533	578	16	32	432	2100	730	611
20	489	21000	681	149	86	700	41.3	584	635	20	32	457	2230	730	789
24	591	30500	1099	212	80	815	46.1	692	749	20	35	508	2600	730	1102
28	686	42500	1488	279	90	925	69.9	800	864	28	35	610	3100	730	1581
30	737	50000	1692	327	95	985	73.1	857	914	28	35	610	3200	730	1854
32	781	55000	2110	364	102	1060	79.4	914	978	28	41	711	3350	730	2193
36	876	70000	2611	451	115	1170	88.9	1022	1086	32	41	711	3700	730	2960
42	1020	95000	3515	607	135	1345	95.3	1194	1257	36	41	762	4500	730	3462
48	1166	124000	5595	834	150	1510	106.4	1359	1422	44	41	762	5200	730	3901
60	1458	190000	9813	1288	190	1855	130.2	1676	1759	52	48	762	6200	730	8826
72	1755	275000	14323	1740	230	2200	130.2	2020	2095	60	51	914	7800	730	13297

Figure: E520

Class: 300



STANDARDS

Design API 600

Face to Face ASME B16.10

Flange ASME B16.47 Series A & ASME B16.5

Test Pressure

PN	Class	Shell	Closure	Air
50	300	77 Bar	57 Bar	6 Bar

Working Pressure (for group 1.1 materials)

-29 +38°C +425°C Max

51.1 Bar 28.8 Bar

Dimensions & Weight

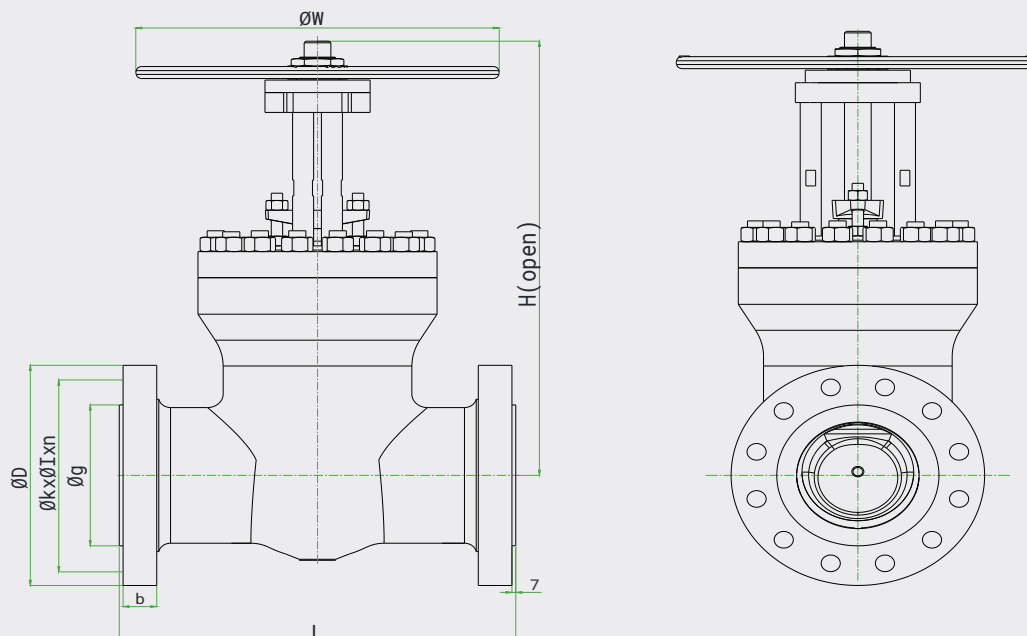
NPS	ØID	Kv	Torque	Thrust	Turn	ØD	b	Øg	Øk	n	ØI	L	H	W	~ Wt
2	51	240	21	10	18	165	20.7	92	127	8	19	216	385	210	27
3	76	520	33	16	24	210	27	127	168	8	22	282	475	245	50
4	102	970	58	24	26	255	30.2	157	200	8	22	305	575	265	82
6	152	2150	135	44	36	320	35	216	270	12	22	403	820	265	154
8	203	3850	237	71	37	380	39.7	270	330	12	25	419	1040	360	248
10	254	6000	381	104	49	445	46.1	324	387	16	29	457	1300	410	378
12	305	8600	578	146	57	520	49.3	381	451	16	32	502	1475	460	502
14	336	10600	697	176	65	585	52.4	413	514	20	32	762	1665	610	725
16	387	14000	1049	229	72	650	55.6	470	572	20	35	838	1860	610	914
18	432	17000	1313	287	81	710	58.8	533	629	24	35	914	2145	730	1155
20	483	21000	1846	356	68	775	62	584	686	24	35	991	2300	730	1428
24	584	30500	2969	513	80	915	68.3	692	813	24	42	1143	2700	730	2288
28	686	42500	3991	689	92	1035	84.2	800	940	28	44	1346	3300	730	2826
30	737	50000	4631	800	98	1090	90.5	857	997	28	48	1397	3400	730	3367
32	779	55000	5978	891	104	1150	96.9	914	1054	28	51	1524	3550	730	4345
36	874	70000	7523	1122	116	1270	103.2	1022	1168	32	54	1727	3900	730	5439
42	1194	95000	11406	1497	135	1290	117.5	1137	1206	32	44	1911	4750	730	6815
48	1499	124000	15656	2055	153	1465	131.8	1302	1372	32	51	2050	5500	730	8514

Figure: E530

Class: 600

STANDARDS

Design	API 600
Face to Face	ASME B16.10
Flange	ASME B16.47 Series A & ASME B16.5



Test Pressure

PN	Class	Shell	Closure	Air
100	600	154 Bar	113 Bar	6 Bar

Working Pressure (for group 1.1 materials)

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

Dimensions & Weight

NPS	ØID	Kv	Torque	Thrust	Turn	ØD	b	Øg	Øk	n	ØI	L	H	W	~ Wt
inch	mm	m ³ /h	Nm	kN	No	mm	mm	mm	mm	no	mm	mm	mm	mm	kg
2	51	240	32	15	18	165	26	92	127	8	19	292	420	210	33
3	76	520	68	28	21	210	32	127	168	8	22	356	510	265	68
4	102	970	117	43	26	275	38	157	216	8	25	432	620	310	117
6	152	2150	310	85	31	355	48	216	292	12	29	559	850	460	204
8	203	3850	559	141	39	420	56	270	349	12	32	660	1100	610	397
10	254	6000	965	211	47	510	64	324	432	16	35	787	1350	730	645
12	305	8600	1308	286	55	560	67	381	489	20	35	838	1575	730	924
14	336	10600	1827	353	50	605	70	413	527	20	38	889	1750	730	1101
16	387	14000	2667	461	56	685	76	470	603	20	41	991	1950	730	1470
18	438	17000	3336	576	60	745	83	533	654	20	45	1092	2250	730	1853
20	489	21000	4844	722	68	815	89	584	724	24	45	1194	2400	730	2341
24	591	30500	6873	1025	80	940	102	692	838	24	51	1397	2850	730	3666
28	686	42500	7771	1342	90	1075	111	800	965	28	54	1549	3250	800	4601
30	737	50000	10735	1601	95	1130	114	857	1022	28	54	1651	3450	800	5758
32	781	55000	11801	1741	102	1195	117	914	1080	28	60	1778	3650	800	7207
36	876	70000	17010	2232	114	1315	124	1022	1194	28	67	2083	4100	800	9021

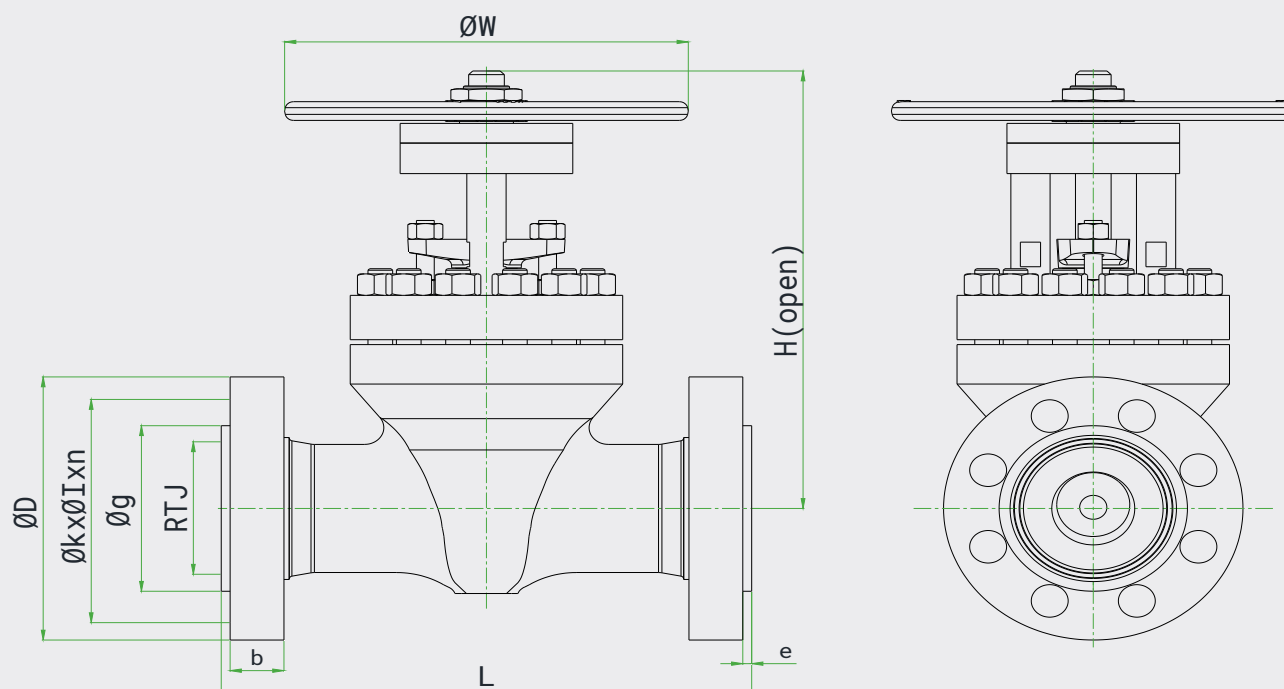
Figure: E540J

Class: 900

Ring Type Joint Flange End

STANDARDS

Design	API 600
Face to Face	ASME B16.10
Flange	ASME B16.47 Series A & ASME B16.5



Test Pressure

PN	Class	Shell	Closure	Air
160	900	230 Bar	169 Bar	6 Bar

Working Pressure (for group 1.1 materials)

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

Dimensions & Weight

NPS	$\varnothing ID$	Kv	Torque	Thrust	Turn	$\varnothing D$	b	$\varnothing g$	$\varnothing k$	n	$\varnothing I$	L	H	W	e	RTJ	~ Wt
inch	mm	m ³ /h	Nm	kN	No	mm	mm	mm	mm	no	mm	mm	mm	mm	mm	no	kg
2	49	192	59	24	13	215	38	124	165	8	25	371	575	450	8	R24	60
3	74	419	108	40	19	240	38	156	191	8	25	384	800	500	8	R31	92
4	100	784	186	61	25	290	45	181	235	8	32	460	680	500	8	R37	136
6	150	1744	499	126	28	380	56	241	318	12	32	613	910	600	8	R45	277
8	201	3128	896	196	37	470	64	308	394	12	38	740	1200	600	8	R49	577
10	252	4880	1504	290	38	545	70	362	470	16	38	841	1500	600	8	R53	735
12	303	6999	1995	385	44	610	80	419	533	20	38	968	1450	600	8	R57	1175
14	322	8473	2700	465	48	640	86	467	559	20	41	1030	1900	800	11	R62	1392
16	373	11222	3402	587	54	705	89	524	616	20	44	1140	1950	800	11	R66	1914
18	423	13641	4720	737	62	785	101.6	594	686	20	51	1230	2300	800	13	R70	2514
20	471	16828	6063	904	70	855	108	648	749	20	54	1334	2450	1000	13	R74	3483
24	570	24457	10261	1290	84	1040	139.7	772	902	20	67	1568	2990	1000	16	R78	5190

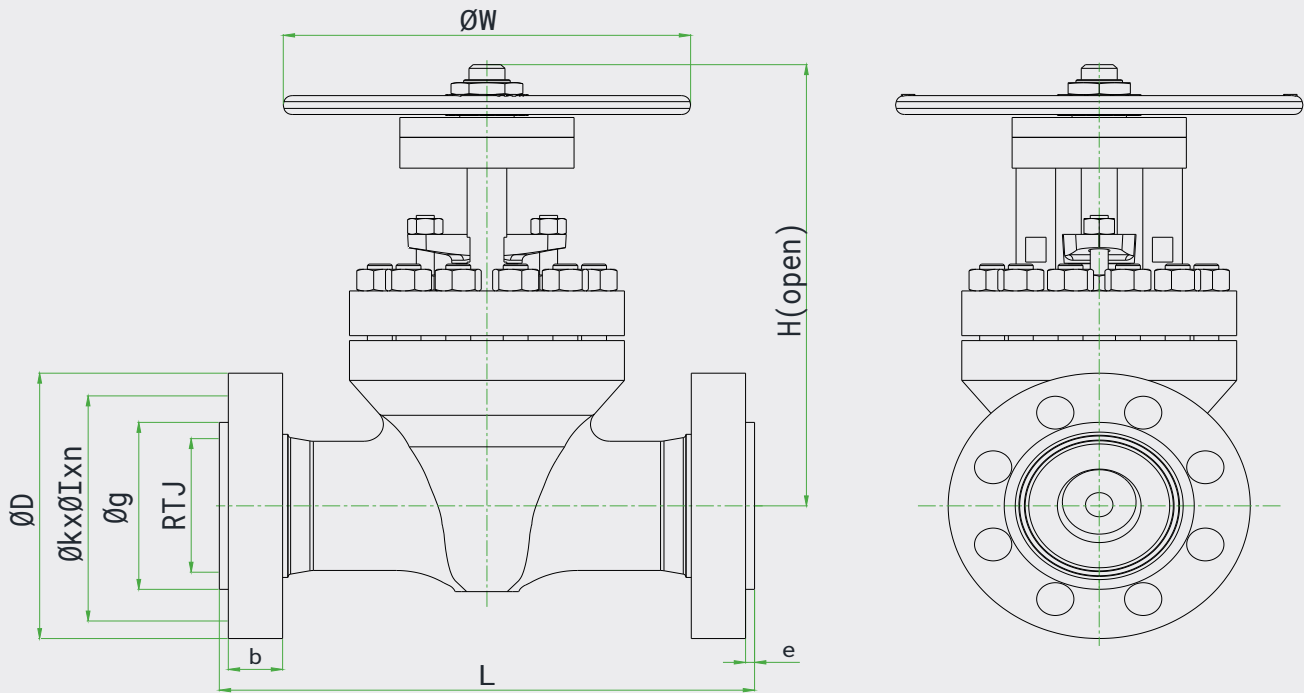
Figure: E550J

Class: 1500

Ring Type Joint Flange End

STANDARDS

Design	API 600
Face to Face	ASME B16.10
Flange	ASME B16.5



Test Pressure

PN	Class	Shell	Closure	Air
250	1500	383 Bar	281 Bar	6 Bar

Working Pressure (for group 1.1 materials)

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

Dimensions & Weight

NPS	$\varnothing ID$	Kv	Torque	Thrust	Turn	$\varnothing D$	b	$\varnothing g$	$\varnothing k$	n	$\varnothing I$	L	H	W	e	RTJ	~ Wt
inch	mm	m ³ /h	Nm	kN	No	mm	mm	mm	mm	no	mm	mm	mm	mm	mm	no	kg
2	49	186	88	36	13	215	38	124	165	8	26	371	505	450	8	R24	62
3	74	403	189	62	19	265	48	168	203	8	32	473	725	500	8	R35	125
4	100	751	306	91	21	310	54	194	241	8	35	549	670	500	8	R39	182
6	144	1632	715	181	28	395	83	248	318	12	38	711	900	600	11	R46	520
8	192	2915	1549	299	30	485	92	318	394	12	44	841	1110	650	11	R50	691
10	239	4526	2541	439	38	585	108	371	483	12	51	1000	1250	750	11	R54	1170
12	287	6483	4104	612	44	675	124	438	572	16	54	1146	1275	850	14	R58	1879
14	315	8121	4741	707	48	750	133.4	489	635	16	60	1276	1900	1000	16	R63	2371
16	360	10654	5910	881	54	825	146.1	546	705	16	67	1407	1950	1000	18	R67	3300

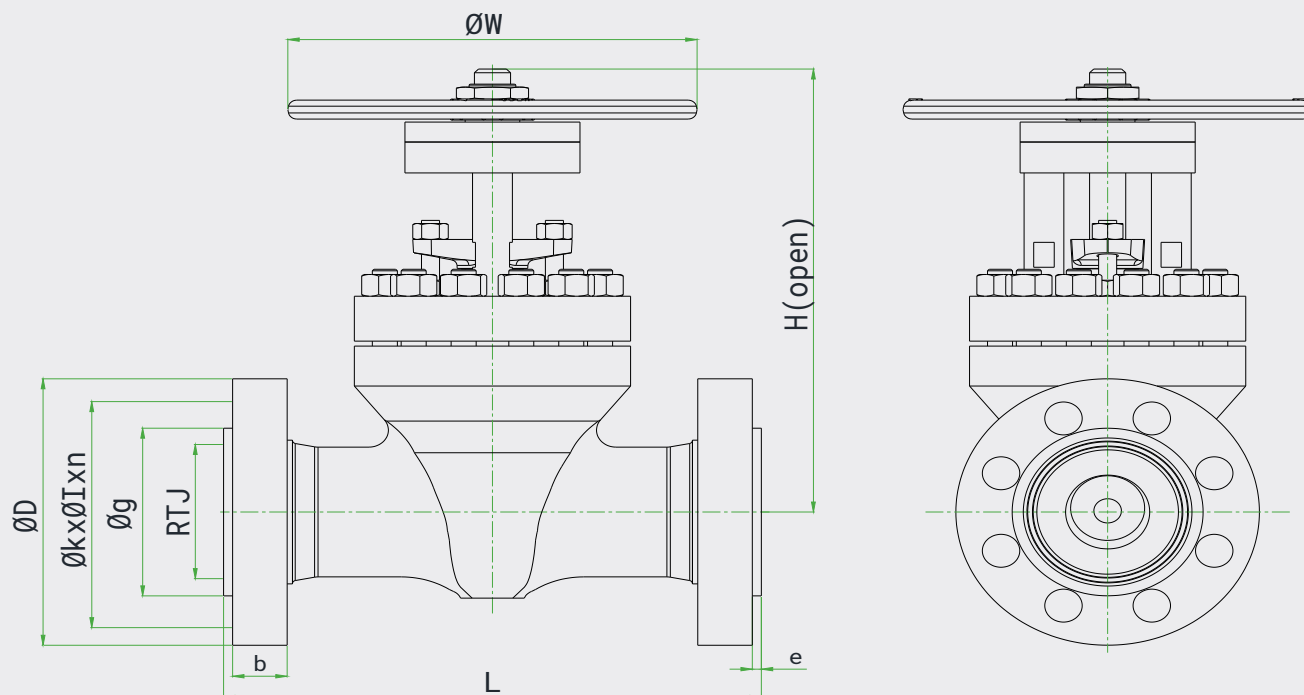
Figure: E560J

Class: 2500

Ring Type Joint Flange End

STANDARDS

Design	API 600
Face to Face	ASME B16.10
Flange	ASME B16.5



Test Pressure

PN	Class	Shell	Closure	Air
420	2500	639 Bar	469 Bar	6 Bar

Working Pressure (for group 1.1 materials)

-29 +38 °C	+425 °C Max
425.5 Bar	239.7 Bar

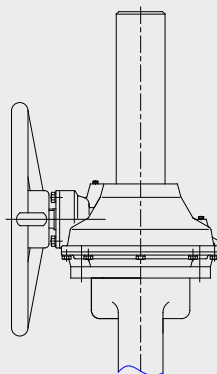
Dimensions & Weight

NPS	$\varnothing ID$	Kv	Torque	Thrust	Turn	$\varnothing D$	b	$\varnothing g$	$\varnothing k$	n	$\varnothing I$	L	H	W	e	RTJ	~ Wt
inch	mm	m ³ /h	Nm	kN	No	mm	mm	mm	mm	no	mm	mm	mm	mm	mm	no	kg
2	42	172	112	46	13	235	51	133	171	8	29	454	575	450	8	R26	95
3	62	369	243	80	19	305	67	168	229	8	35	584	800	500	10	R32	135
4	87	701	372	111	21	355	76	203	273	8	41	683	875	500	11	R38	222
6	131	1588	1103	241	28	485	108	279	368	8	54	927	1080	650	13	R47	446
8	179	2879	2304	398	30	550	127	340	438	12	54	1038	1350	700	14	R51	731
10	223	4489	4031	601	38	675	165.1	425	540	12	67	1292	1400	850	18	R55	1423
12	265	6401	6339	832	44	760	184.2	495	619	12	73	1445	1500	1000	18	R60	1923

Optional Requirements

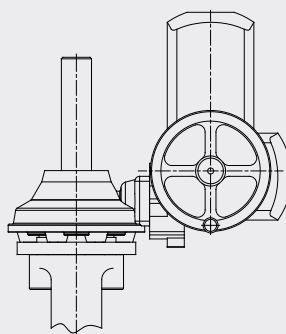
Operation options are as follows.

G: Gearbox should be preferred when torque values are beyond 150 Nm for the differential pressure indicated on tables. Reduction devices are added when available gear box is not sufficient.

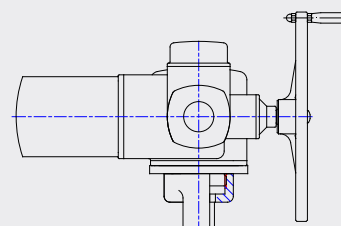


G (Gearbox)

GE/E: Electric actuators are recommended for quick & easy operation of valves, together with remote control circuits when required.

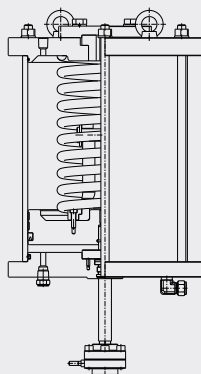


GE (Electric Actuator with Gearbox)

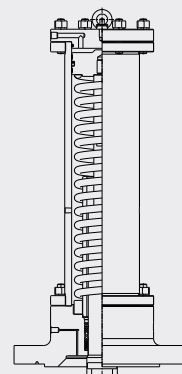


E (Electric Actuator)

P/H: Pneumatic or hydraulic actuators are equipped if pressurised air or hydraulic power is available.



P (Pneumatic Linear Spring Return Actuator)



H (Hydraulic Linear Spring Return Actuator)

REFERENCE PROJECTS, E500



BP Sangachal Terminal	BP	Fuel Oil Storage	Azerbaijan	2" - 28"	2010
Pearl GTL Project	Shell	Fuel Oil Storage	Qatar	24"	2010
TP Batı Kozluca Crude Oil Production Facility	Turkish Petroleum (TP)	NG-Transportation	Turkey	12"	2011
Egypt Gas Regional Project	Egypt Gas	C0-Transportation	Egypt	10"	2011
Pleven Water Conveyance Line Project	Bulgarian Water Authority	Water Works	Bulgaria	48"	2012
Tupras Izmir Refinery	Tupras	C0-Refining	Turkey	4" - 24"	2012
Regional Natural Gas Transportation Project	Turkmengaz	NG-Transportation	Turkmenistan	2" - 10"	2013
EPC Central Processing Facilities Phase - 1, Badra Oil Field Development	Gazprom	C0-Refining	Iraq	2" - 16"	2013
Drilling of 3 Units Exploration Well at Bulla-Deniz Oil & Gas Field	Socar	C0-Production	Azerbaijan	2" - 28"	2014
EPC Central Processing Facilities Phase - 1, Badra Oil Field Development	Petrofac	C0-Refining	Iraq	8"	2014

E500 REFERENCE, CLIENT LIST

- ADCO, Abu Dhabi
- Afghan National Petroleum, Afghanistan
- Afyon Geothermal, Turkey
- Aksa, Turkey
- Aladdin Middle East Ltd., Turkey
- ALBA, Bahrain
- Atlas Oil Company, Turkey
- Axion Energy, Argentina
- Aygaz A.S., Turkey
- Azmeo, Azerbaijan
- Baskentgaz, Turkey
- Batumi Oil Terminal, Georgia
- Bestepeler Energy, Turkey
- Biosun, Turkey
- Blantyre Water Authority, Malawi
- BOTAS, Turkey
- BP, Azerbaijan
- BP, Algeria
- BP, Turkey
- BTC Company, Turkey
- Bulgarian Water Authority, Bulgaria
- Calik Enerji, Turkey
- Calik Enerji, Turkmenistan
- Celikler Geothermal, Turkey
- Channel Energy (POTI) Ltd., Georgia
- Dioki Petrokimya Sanayi A.S., Turkey
- Dowaksa, Turkey
- Dragon Oil, Turkmenistan
- Efeler Geothermal, Turkey
- Egypt Gas, Egypt
- Enerjeo Kemaliye Enerji Uretim A.S., Turkey
- Entek, Turkey
- Erdemir, Turkey
- Etimaden, Turkey
- Fet-Gaz, Turkey
- Gama Holding, Turkey
- GASCO, Abu Dhabi
- Gazprom
- Gazprom, Iraq
- Greeneco, Turkey
- Gurmat, Turkey
- Hyundai
- Hyundai, Morocco
- ICDAS, Turkey
- IGA, Turkey
- Ministry of Energy, Iraq
- IRESEN, Morocco



Petrofac 



EPIC of Crude Oil Tank Farm Terminal Project	Dragon Oil	CO-Tank Farm	Turkmenistan	2" - 28"	2015
Ceyhan Terminal Water and Foam Line	Botas	CO-Storage	Turkey	6" - 24"	2015
Bu Hasa Plant Project Manual Discharge Gate Valve Replacement	Abu Dhabi Gas Industries Ltd. (GASCO)	NGL Extraction Plant	United Arab Emirates	24" - 30"	2016
Poti Oil Storage Terminal	Channel Energy (POTI) Ltd.	Oil Storage Terminal	Georgia	2" - 20"	2016
Trans Anatolian Natural Gas Pipeline (TANAP), Edirne, Eskisehir and Ardahan Compressor Stations Project	TANAP Project Company	NG-Measure & Compression	Turkey	2" - 10"	2017
Supply of Crude Oil from La Plata Region to New Terminal Project	YPF S.A.	CO-Refining	Argentina	8" - 24"	2017
Sangachal Terminal	Socar	CO-Terminal	Azerbaijan	2" - 20"	2018
IGA Airport (IGA Havalimani Isletmesi A.S.)	IGA	Jet Fuel Pipeline	Turkey	6" - 36"	2018
Tupras Izmit Refinery	Tupras	R Refinery	Turkey	4" - 10"	2019
Aliaga Oil Storage Terminal Expansion Project	Socar	CO-Storage	Turkey	6" - 24"	2019

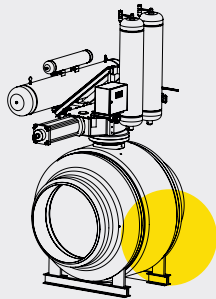
- Isdemir, Turkey
- ISKI, Turkey
- Jordan Industrial Ports Company, Jordan
- Ministry of Energy and Mineral Resources, Jordan
- Jordan Petroleum Refinery Company, Jordan
- Kar Group, Turkey
- Kar Group, Iraq
- KPO, Kazakhstan
- Karadeniz Holding, Turkey
- Kipas Holding, Turkey
- KOC, Kuwait
- Kolin, Turkey
- Marsa, Turkey
- Maspo Energy, Turkey
- N.V. Turkse Perenco, Turkey

- OPET, Turkey
- Petrofac, UAE
- Petrofac, Iraq
- Petrol Ofisi A.S., Turkey
- PT Perusahaan Gas Negara, Indonesia
- Polisan Holding, Turkey
- Pozitif Energy, Turkey
- Shell, Qatar
- OMV, Romania
- Saray Aluminium, Turkey
- Sasa Polyester San. A.S., Turkey
- SOCAR, Turkey
- SOCAR, Azerbaijan
- SOCAR, Georgia
- SOCAR Star Refinery, Turkey
- TANAP Project Company, Turkey
- Temsan, Turkey

- Thy-Opet, Turkey
- Toros Agri-Industry and Trade Co., Turkey
- Turkish Petroleum, Turkey
- Transgaz, Romania
- Tumad Mining Industry and Trade Co., Turkey
- TUPRAS, Turkey
- Ministry of Energy, Turkmenistan
- Turkengaz, Turkmenistan
- Tuzla Geothermal Energy Co., Turkey
- Ustay Construction-Contracting and Trading Company, Turkey
- Vega, Turkey
- YPF, Argentina
- Zadco, UAE
- Zorlu Energy, Turkey

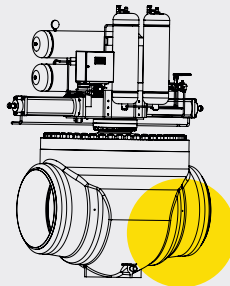
PRODUCT RANGE

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



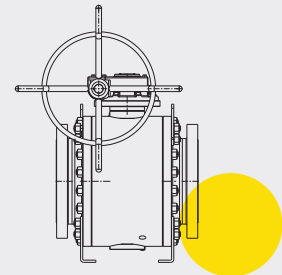
FULL WELDED BALL VALVES

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



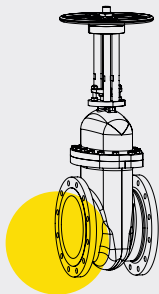
TOP ENTRY BALL VALVE

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



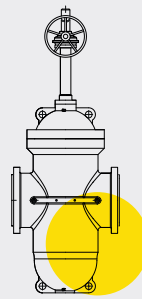
SPLIT BODY BALL VALVES

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



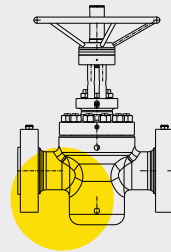
WEDGE GATE VALVES

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



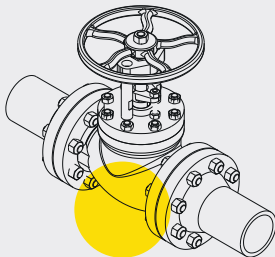
CONDUIT GATE VALVES

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



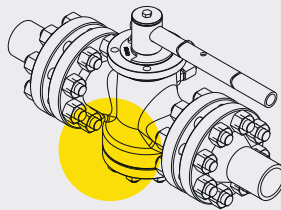
API 6A GATE VALVES

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



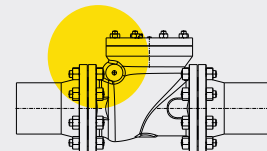
GLOBE VALVES

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



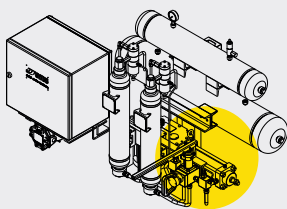
PLUG VALVES

API 6D monogrammed
ATEX, PED



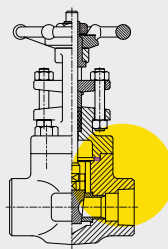
CHECK VALVES

API 6D monogrammed
ATEX, PED



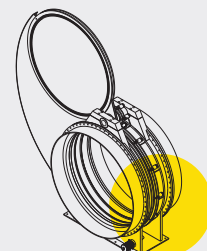
HYDRAULIC & PNEUMATIC ACTUATORS

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.



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