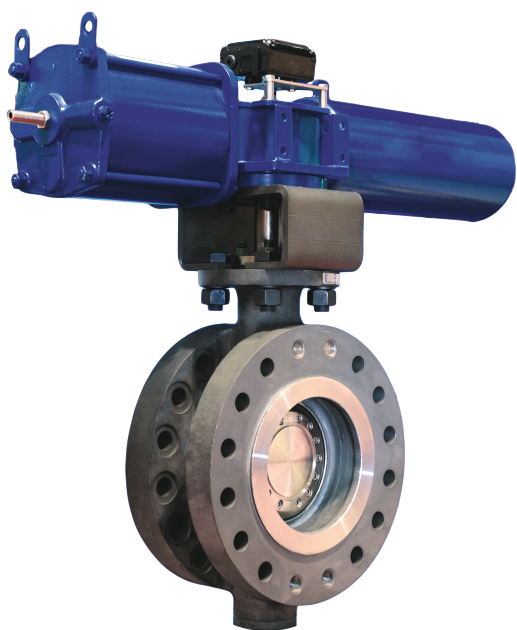


VANESSA SERIES 30,000 TRIPLE OFFSET VALVES*

BASIC CONFIGURATION

With a robust integral-to-body valve seat and optimized seating angles, this valve is capable of handling isolation and process control through multiple functionalities



FEATURES

- Robust and fire-resistant all-metal construction.
- Stellite® grade 21 seat overlays provide excellent durability.
- Resilient metal seal ring ensures perfect seating force distribution around precision-machined seat circumference.
- Easily replaceable multi-layered duplex and graphite seal rings.
- Robust one-piece shaft designed to transfer/maintain torque efficiently.
- Two-piece packing gland and graphite packing minimize external emission risk.
- Key secured shaft-to-disc connection for maximum shaft integrity.
- Heavy duty bearings withstand high pressure loads and wear.
- Braided graphite bearing protectors prevent dirt intrusion, ensuring constant running torque and valve operability.
- Internal and external shaft extrusion risk handling complies with international standards.
- Flange spot facing ensures bolting nut and washer planarity, increasing joint reliability and safety.
- Open/closed disc references and external disc position indicator simplify installation/removal procedures to API 609.
- Spiral wound gaskets, seal and packing rings replaceable with no special tools.

GENERAL APPLICATIONS

Suitable for handling the broadest range of fluids in oil and gas, petrochemical, chemical, coal, desalination, waterworks, food and beverage industries. Also for solar, geothermal and hydro power, fossil fuels, district heating, mining, shipyards and the aerospace sectors.

Fluids

Series 30,000 valves are suitable for processes containing:
Crude oil; jet fuel; kerosene; gasoline; acid gas; sour gas; natural gas; syngas; carbon dioxide; flare gas; tail gas; ethylene; ethylene glycol; ethylbenzene; butadiene; styrene; hydrogen; oxygen; nitric, acrylic, sulphuric, hydrochloric, hydrofluoric, acetic acid; hydrogen peroxide; alcohols; ammonia; amines; chlorine; vinyl chloride; steam; geothermal steam; heat transfer fluids; flue gas; coke oven gas; potable water; sea water; waste water.

TECHNICAL DATA

Sizes:	DN 80 to 3450 / NPS 3 to 138
Pressure ratings:	ASME Class 150 to 1500; EN PN 10 to 250
Temperature range:	-60 to 450°C / -76 to 842°F

Standards

Design:
API 609, EN 593; ASME B16.34, EN 12516
Flange:
ASME B16.5/ASME B16.47; EN 1092-1;
ISO 7005
Face-to-face:
ISO 5752; EN 558; ASME B16.10; API 609

* Vanessa triple offset valves perform bidirectional zero leakage tightness (no visible leakage when tested first at high pressure with water and then at low pressure with air according to 'Leakage Rate A' of ISO 5208 and EN 12266-1 standards, and the 'Resilient Seat Valves' requirement of API 598) through non-rubbing 90-degree rotation and metal-to-metal torque seating.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVE

TABLE OF CONTENTS

GENERAL NOTES	3
ASTM Material Selection	4
Sectional Drawing	5
Dimensions and Weights:	
Double flanged short – ASME Class 150	6
Double flanged long – ASME Class 150	6
Lug – ASME Class 150	7
Wafer – ASME Class 150	7
Buttweld – ASME Class 150	8
Double flanged short – ASME Class 300	9
Double flanged long – ASME Class 300	9
Lug – ASME Class 300	10
Wafer – ASME Class 300	10
Buttweld – ASME Class 300	11
Double flanged short – ASME Class 600	12
Double flanged long – ASME Class 600	12
Lug – ASME Class 600	13
Wafer – ASME Class 600	13
Buttweld – ASME Class 600	14
Double flanged short – ASME Class 900	15
Lug – ASME Class 900	15
EN Material Selection	16
Sectional Drawing	17
Dimensions and Weights:	
Double flanged short – EN PN 10, 16 and 25	18
Double flanged short – EN PN 40	18
Lug – EN PN 10/16, 25 and 40	19
Wafer (EN 558) – EN PN 10/16, 25 and 40	19
Wafer (API 609) – EN PN 10/16 and 25	20
Wafer (API 609) – EN PN 40	21
Buttweld – EN PN 10/16, 25 and 40	21
Certification Table	22

GENERAL NOTES

1. Drawings and dimensional tables published in this datasheet represent a selection from a much wider range available. For more information, please contact your nearest Emerson sales office.
2. Total weights indicate the sum of valve and manual gear weights.
3. Trim A: Δp max. 10 bar / 145 psi
Trim B: Δp max. 25 bar / 363 psi
Trim C: Δp max. 52 bar / 754 psi
Trim D: Δp max. 110 bar / 1595 psi
Trim E: Δp max. 160 bar / 2320 psi at ambient temperature
4. With reference to the face-to-face of double flanged short valves, note that ISO 5752 BASIC SERIES 13/14 corresponds to API 609 DOUBLE FLANGED SHORT where applicable.
5. Sectional drawings and dimensional tables on this datasheet refer to valves with gears. However, note that Vanessa valves are suitable for operation with all kinds of quarter-turn actuators (pneumatic, hydraulic, electric, etc.).
6. Suggested orientation is with the valve shaft horizontal or inclined from vertical.
7. For operating temperatures above 200°C / 392°F thermal insulation of the valve body is recommended.
8. Dimensions and weight provided in below tables may vary up to +10%.
9. Gear selection may vary in case of API monogram valves, contact your nearest Emerson sales office.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

ASTM MATERIAL SELECTION

[BACK TO THE TABLE OF CONTENTS](#)

ASTM MATERIAL SELECTION - please refer to basic configuration sectional drawing on page 5

Item	Note	Description	Body in carbon steel (gr. WCC) ^[1]	Body in carbon steel (gr. LCC) ^[1]	Body in stainless steel ^[2]
1		Body	ASTM A216 WCC	ASTM A352 LCC	ASTM A351 CF3M / CF8M
		Weld surfacing on seat	Stellite® gr.21	Stellite® gr.21	Stellite® gr.21
2		Cast disc	ASTM A216 WCC	ASTM A352 LCC	ASTM A351 CF3M / CF8M
	☐	Forged disc	ASTM A105 / ASTM A350 LF2 (dual grade)	ASTM A105 / ASTM A350 LF2 (dual grade)	ASTM A182 UNS S31600 / UNS S31603 [F316 / F316L]
		Retainer flange	ASTM A516 gr. 70	ASTM A516 gr. 70	ASTM A240 UNS S31600 / UNS S31603 [gr.316 / gr.316L]
		Retainer flange screw	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)
4		Shaft	ASTM A479 UNS S41000 (13 Cr SS)	ASTM A479 UNS S41000 (13 Cr SS)	ASTM A479 XM19 - UNS S20910 [Nitronic 50®]
5	☐	Packing bushing	UNS S31600 / UNS S31603 [AISI 316 / 316L]	UNS S31600 / UNS S31603 [AISI 316 / 316L]	UNS S31600 / UNS S31603 [AISI 316 / 316L]
		Stud nut	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)
		Stud bolts	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)
	☐	Packing flange	UNS S31600 / UNS S31603 [AISI 316 / 316L]	UNS S31600 / UNS S31603 [AISI 316 / 316L]	UNS S31600 / UNS S31603 [AISI 316 / 316L]
6	☐	Bottom flange	ASTM A516 gr. 70 or ASTM A216 WCC or ASTM A105 / A350LF2	ASTM A516 gr. 70 or ASTM A352 LCC or ASTM 350 LF2	ASTM A240 / A182 UNS S31600 / UNS S31603 [AISI 316 / 316L] or ASTM A351 CF8M / CF3M
		Screw	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)	ISO 3506 A4 (ASTM F738 gr. A4)
7		Thrust bearing	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced
8		Bearing	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced	UNS S31600 / UNS S31603 [AISI 316 / 316L] hard faced
		Bearing protector	Graphite ring	Graphite ring	Graphite ring
S	○	Packing	Graphite	Graphite	Graphite
	○	Bottom spiral wound gasket	UNS S31600 / UNS S31603 + graphite	UNS S31600 / UNS S31603 + graphite	UNS S31600 / UNS S31603 + graphite
	○ ◆	Seal ring	UNS S31803 (duplex) + graphite or UNS S17400 (17-4 PH) hard faced	UNS S31803 (duplex) + graphite or UNS S17400 (17-4 PH) hard faced	UNS S31803 (duplex) + graphite or UNS S20910 (Nitronic 50®) hard faced
	○	Seal ring spiral wound gasket	UNS S31600 / UNS S31603 + graphite	UNS S31600 / UNS S31603 + graphite	UNS S31600 / UNS S31603 + graphite

NOTES

- Heat treated ASTM A216 WCC [-46 to + 426°C] can be used without any restrictions from a design temperature of -46°C.

Carbon Steel (WCC and LCC) valve material selection is compliant with the requirements of NACE MR0103 / ISO 17945 and NACE MR0175 / ISO 15156 for H2S partial pressures ≤ 10 kPa and pH values 3.5

- Cast material ASTM A351 CF3M/CF8M is DUAL GRADE CERTIFIED. Forged and plate material UNS 31600 / UNS S31603 [AISI 316 / AISI 316L] is DUAL GRADE CERTIFIED.

Stainless Steel CF3M valve material selection is compliant with the requirements of NACE MR103 / ISO 17945 and NACE MR0175 / ISO 15156

☐ Materials are exclusively selected by factory depending on valve size.

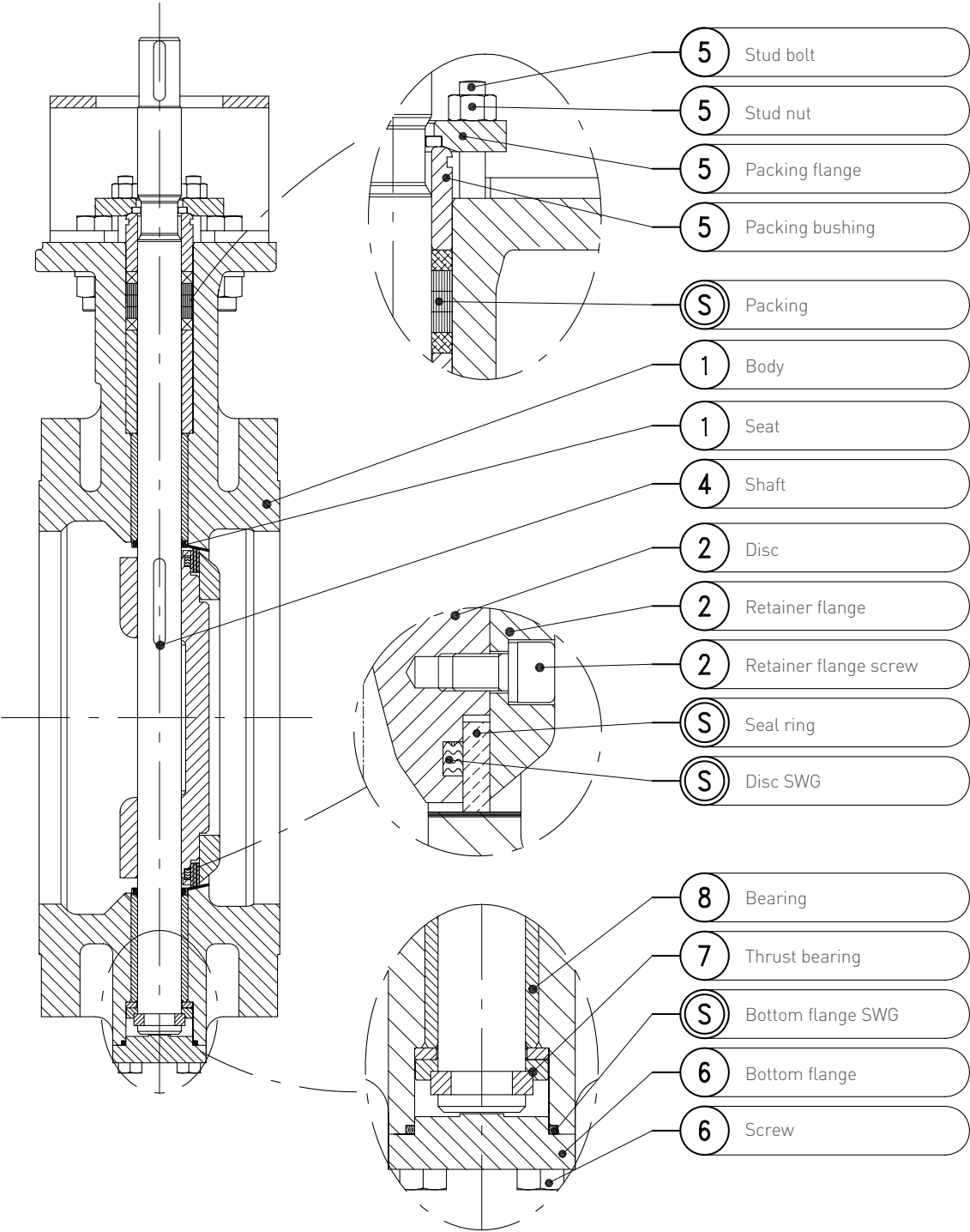
○ Suggested spare parts.

◆ Solid seal rings in UNS S17400 (17-4 PH) or UNS S20910 (Nitronic 50®) are supplied depending on applications and can be requested as an option. For ASME class 900 and above solid seal rings are standard components.

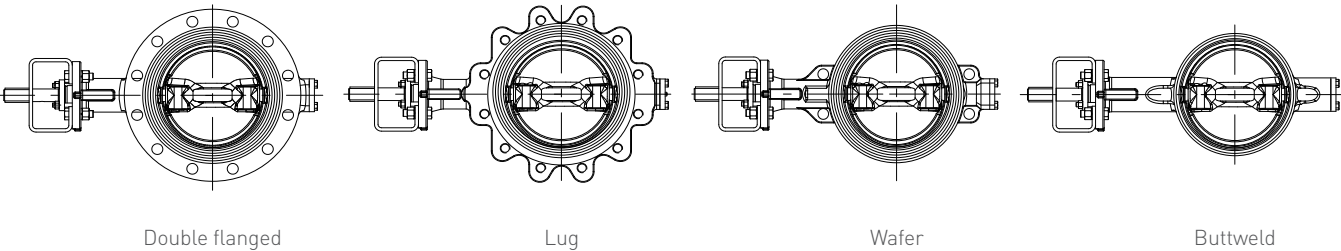
Vanessa Series 30,000 triple offset valves are also manufactured in a wide range of valve body materials, including: high temperature alloy steel e.g. WC6, WC9, C5, C12; austenitic stainless steel e.g. CF8, CF3, CF8C, CF10; Duplex and Super Duplex stainless steel e.g. CD3MN, CD3MWCuN; high alloy austenitic stainless steel e.g. 6Mo [CN3MN] and Alloy 20 [CN7M], many different nickel alloys including Monel®, Incoloy®, Hastelloy®, Inconel®, nickel aluminum bronze and titanium.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES
 BASIC CONFIGURATION SECTIONAL DRAWING

[BACK TO THE TABLE OF CONTENTS](#)



Available body styles:



VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

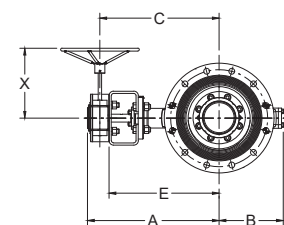
DIMENSIONS AND WEIGHTS / ASME CLASS 150

[BACK TO THE TABLE OF CONTENTS](#)

DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 13 (METRIC)

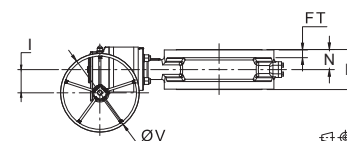
DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
80	3	335	125	296	260	22.3	114	57.0	55	221	200	30	35
100	4	365	141	326	290	22.3	127	63.5	55	221	200	45	50
150	6	405	165	366	330	23.9	140	70.0	55	221	200	55	60
200	8	482	214	433	385	27.0	152	76.0	84	344	500	90	102
250	10	522	243	473	425	28.6	165	82.5	84	344	500	125	137
300	12	590	286	544	490	30.2	178	89.0	100	356	600	165	182
350	14	625	312	579	525	33.4	190	95.0	100	356	600	200	217
400	16	673	350	616	545	35.0	216	108.0	154	447	700	260	300
450	18	708	383	651	580	38.1	222	111.0	154	447	700	315	355
500	20	768	407	711	640	41.3	229	114.5	154	447	700	395	437
600	24	865	484	812	690	46.1	267	133.5	217	456	600	570	638

ASME B16.5 Class 150 - Trim B



DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 13 (IMPERIAL)

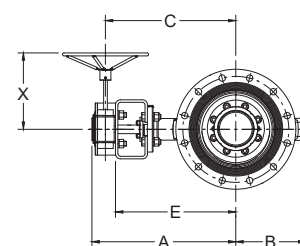
NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
3	80	13.25	5.00	11.75	10.25	0.878	4.50	2.25	2.13	8.75	7.75	66	77
4	100	14.50	5.75	13.00	11.50	0.878	5.00	2.50	2.13	8.75	7.75	99	110
6	150	16.00	6.50	14.50	13.00	0.941	5.50	2.75	2.13	8.75	7.75	121	132
8	200	19.00	8.50	17.25	15.25	1.063	6.00	3.00	3.25	13.50	19.75	198	224
10	250	20.75	9.75	18.75	16.75	1.126	6.50	3.25	3.25	13.50	19.75	275	301
12	300	23.25	11.50	21.50	19.50	1.189	7.00	3.50	3.88	14.00	23.50	363	400
14	350	24.75	12.50	23.00	20.75	1.315	7.50	3.75	3.88	14.00	23.50	440	477
16	400	26.50	14.00	24.50	21.50	1.378	8.50	4.25	6.00	17.63	27.50	572	660
18	450	28.00	15.25	25.75	23.00	1.500	8.75	4.38	6.00	17.63	27.50	693	781
20	500	30.25	16.25	28.00	25.25	1.626	9.00	4.50	6.00	17.63	27.50	869	961
24	600	34.25	19.25	32.00	27.25	1.815	10.50	5.25	8.50	18.00	23.50	1254	1404



DOUBLE FLANGED LONG - FACE-TO-FACE API 609 LONG PATTERN - ASME B16.10 (METRIC)

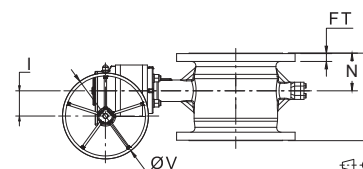
DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
80	3	335	125	296	260	22.3	203	124	55	221	200	32	37
100	4	365	141	326	290	22.3	229	89	55	221	200	48	53
150	6	405	165	366	330	23.9	267	102	55	221	200	66	71
200	8	482	214	433	385	27	292	105	84	344	500	98	110
250	10	522	243	473	425	28.6	330	130	84	344	500	135	147
300	12	590	286	544	490	30.2	356	153	100	356	600	179	196
350	14	625	312	579	525	33.4	381	175	100	356	600	230	247
400	16	673	350	616	545	35	406	195	154	447	700	303	343
450	18	708	383	651	580	38.1	432	216	154	447	700	366	406
500	20	768	407	711	640	41.3	457	228.5	154	447	700	448	490
600	24	865	484	812	690	46.1	508	230	217	456	600	647	715

ASME B16.5 Class 150 - Trim B



DOUBLE FLANGED LONG - FACE TO FACE API 609 LONG PATTERN - ASME B16.10 (IMPERIAL)

NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
3	80	13.25	5.00	11.75	10.25	0.878	8.00	4.88	2.13	8.75	7.75	70	81
4	100	14.50	5.75	13.00	11.50	0.878	9.00	3.50	2.13	8.75	7.75	106	117
6	150	16.00	6.50	14.50	13.00	0.941	10.50	4.00	2.13	8.75	7.75	145	156
8	200	19.00	8.50	17.25	15.25	1.063	11.50	4.13	3.25	13.50	19.75	216	242
10	250	20.75	9.75	18.75	16.75	1.126	13.00	5.13	3.25	13.50	19.75	297	323
12	300	23.25	11.50	21.50	19.50	1.189	14.00	6.00	3.88	14.00	23.50	394	431
14	350	24.75	12.50	23.00	20.75	1.315	15.00	6.88	3.88	14.00	23.50	506	543
16	400	26.50	14.00	24.50	21.50	1.378	16.00	7.63	6.00	17.63	27.50	667	755
18	450	28.00	15.25	25.75	23.00	1.500	17.00	8.50	6.00	17.63	27.50	805	893
20	500	30.25	16.25	28.00	25.25	1.626	18.00	9.00	6.00	17.63	27.50	986	1078
24	600	34.25	19.25	32.00	27.25	1.815	20.00	9.00	8.50	18.00	23.50	1423	1573



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

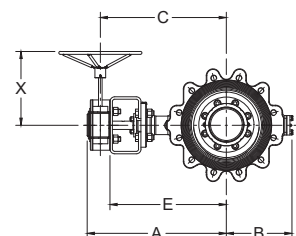
DIMENSIONS AND WEIGHTS / ASME CLASS 150

[BACK TO THE TABLE OF CONTENTS](#)

LUG - FACE-TO-FACE API 609 CLASS 150 (METRIC)

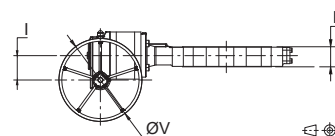
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	13	18
100	4	365	141	326	290	54	55	221	200	17	22
150	6	405	165	366	330	57	55	221	200	23	28
200	8	482	214	433	385	64	84	344	500	36	48
250	10	522	243	473	425	71	84	344	500	49	61
300	12	590	286	544	490	81	100	356	600	83	100
350	14	625	312	579	525	92	100	356	600	117	134
400	16	673	350	616	545	102	154	447	700	160	200
450	18	708	383	651	580	114	154	447	700	194	234
500	20	768	407	711	640	127	154	447	700	270	312
600	24	865	484	812	690	154	217	456	600	387	455

ASME B16.5 Class 150 - Trim B



LUG - FACE-TO-FACE API 609 CLASS 150 (IMPERIAL)

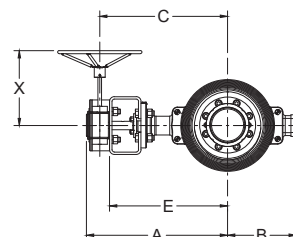
NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
3	80	13.25	5.00	11.75	10.25	1.88	2.13	8.75	7.75	29	40
4	100	14.50	5.75	13.00	11.50	2.13	2.13	8.75	7.75	37	48
6	150	16.00	6.50	14.50	13.00	2.25	2.13	8.75	7.75	51	62
8	200	19.00	8.50	17.25	15.25	2.50	3.25	13.50	19.75	79	106
10	250	20.75	9.75	18.75	16.75	2.81	3.25	13.50	19.75	108	134
12	300	23.25	11.50	21.50	19.50	3.19	3.88	14.00	23.50	183	220
14	350	24.75	12.50	23.00	20.75	3.63	3.88	14.00	23.50	257	295
16	400	26.50	14.00	24.50	21.50	4.00	6.00	17.63	27.50	352	440
18	450	28.00	15.25	25.75	23.00	4.50	6.00	17.63	27.50	427	515
20	500	30.25	16.25	28.00	25.25	5.00	6.00	17.63	27.50	594	686
24	600	34.25	19.25	32.00	27.25	6.06	8.50	18.00	23.50	851	1001



WAFER - FACE-TO-FACE API 609 CLASS 150 (METRIC)

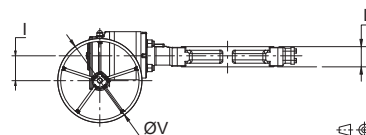
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	14	19
100	4	365	141	326	290	54	55	221	200	15	20
150	6	405	165	366	330	57	55	221	200	20	25
200	8	482	214	433	385	64	84	344	500	34	46
250	10	522	243	473	425	71	84	344	500	45	57
300	12	590	286	544	490	81	100	356	600	73	90
350	14	625	312	579	525	92	100	356	600	97	114
400	16	673	350	616	545	102	154	447	700	123	163
450	18	708	383	651	580	114	154	447	700	164	204
500	20	768	407	711	640	127	154	447	700	220	262
600	24	865	484	812	690	154	217	456	600	324	392

ASME B16.5 Class 150 - Trim B



WAFER - FACE-TO-FACE API 609 CLASS 150 (IMPERIAL)

NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
3	80	13.25	5.00	11.75	10.25	1.88	2.13	8.75	7.75	31	42
4	100	14.50	5.75	13.00	11.50	2.13	2.13	8.75	7.75	33	44
6	150	16.00	6.50	14.50	13.00	2.25	2.13	8.75	7.75	44	55
8	200	19.00	8.50	17.25	15.25	2.50	3.25	13.50	19.75	75	101
10	250	20.75	9.75	18.75	16.75	2.81	3.25	13.50	19.75	99	125
12	300	23.25	11.50	21.50	19.50	3.19	3.88	14.00	23.50	161	198
14	350	24.75	12.50	23.00	20.75	3.63	3.88	14.00	23.50	213	251
16	400	26.50	14.00	24.50	21.50	4.00	6.00	17.63	27.50	271	359
18	450	28.00	15.25	25.75	23.00	4.50	6.00	17.63	27.50	361	449
20	500	30.25	16.25	28.00	25.25	5.00	6.00	17.63	27.50	484	576
24	600	34.25	19.25	32.00	27.25	6.06	8.50	18.00	23.50	713	862



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

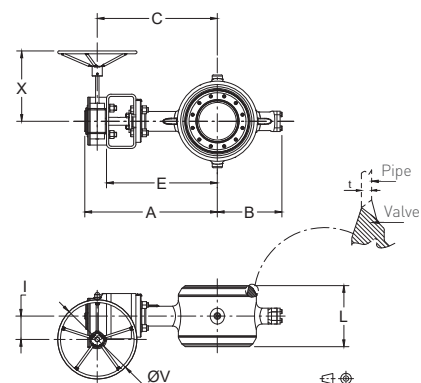
DIMENSIONS AND WEIGHTS / ASME CLASS 150

[BACK TO THE TABLE OF CONTENTS](#)

BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (METRIC)

DN	NPS	A	B	C	E	L	t*	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	kg	kg
80	3	335	125	296	260	180	80	55	221	200	19	24
100	4	365	141	326	290	190	80	55	221	200	27	32
150	6	405	165	366	330	210	80	55	221	200	32	37
200	8	482	214	433	385	230	60	84	344	500	42	54
250	10	522	243	473	425	250	40	84	344	500	56	68
300	12	590	286	544	490	270	40	100	356	600	82	99
350	14	625	312	579	525	290	40	100	356	600	108	125
400	16	673	350	616	545	310	40	154	447	700	127	167
450	18	708	383	651	580	330	40	154	447	700	144	184
500	20	768	407	711	640	350	40	154	447	700	196	238
600	24	865	484	812	690	390	40	217	456	600	283	351

ASME B16.34 Class 150 - Trim B



BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (IMPERIAL)

NPS	DN	A	B	C	E	L	t*	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch		inch	inch	inch	lbs	lbs
3	80	13.25	5.00	11.75	10.25	7.13	3.150	2.13	8.75	7.75	42	53
4	100	14.50	5.75	13.00	11.50	7.50	3.150	2.13	8.75	7.75	59	70
6	150	16.00	6.50	14.50	13.00	8.25	3.150	2.13	8.75	7.75	70	81
8	200	19.00	8.50	17.25	15.25	9.00	2.362	3.25	13.50	19.75	92	119
10	250	20.75	9.75	18.75	16.75	9.88	1.575	3.25	13.50	19.75	123	150
12	300	23.25	11.50	21.50	19.50	10.63	1.575	3.88	14.00	23.50	180	218
14	350	24.75	12.50	23.00	20.75	11.38	1.575	3.88	14.00	23.50	238	275
16	400	26.50	14.00	24.50	21.50	12.25	1.575	6.00	17.63	27.50	279	367
18	450	28.00	15.25	25.75	23.00	13.00	1.575	6.00	17.63	27.50	317	405
20	500	30.25	16.25	28.00	25.25	13.75	1.575	6.00	17.63	27.50	431	524
24	600	34.25	19.25	32.00	27.25	15.38	1.575	8.50	18.00	23.50	623	772

* Maximum allowable pipe schedule.

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

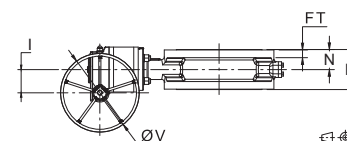
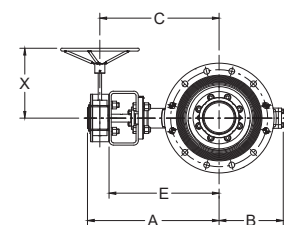
DIMENSIONS AND WEIGHTS / ASME CLASS 300

[BACK TO THE TABLE OF CONTENTS](#)

DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 13 (METRIC)

DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
80	3	335	125	296	260	27	114	57.0	55	221	200	35	40
100	4	365	141	326	290	30.2	127	63.5	55	221	200	45	50
150	6	447	189	398	350	35	140	70.0	84	344	500	80	92
200	8	515	236	469	415	39.7	152	76.0	100	356	600	120	137
250	10	555	272	509	455	46.1	165	82.5	100	356	600	175	192
300	12	618	310	561	490	49.3	178	89.0	154	447	700	235	275
350	14	673	335	616	545	52.4	190	95.0	154	447	700	320	362
400	16	750	389	697	575	55.6	216	108.0	217	456	600	420	488
450	18	820	422	747	660	58.8	222	111.0	261	535	700	495	575
500	20	860	461	787	700	62	229	114.5	261	535	700	605	685
600	24	959	531	880	785	68.3	267	133.5	340	567	700	905	1034

ASME B16.5 Class 300 - Trim C



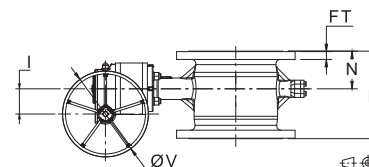
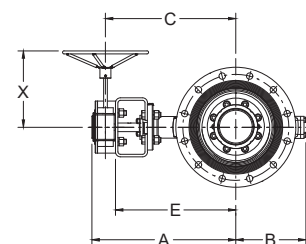
DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 13 (IMPERIAL)

NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
3	80	13.25	5.00	11.75	10.25	1.063	4.50	2.25	2.13	8.75	7.75	77	88
4	100	14.50	5.75	13.00	11.50	1.189	5.00	2.50	2.13	8.75	7.75	99	110
6	150	17.75	7.50	15.75	14.00	1.378	5.50	2.75	3.25	13.50	19.75	176	202
8	200	20.50	9.50	18.50	16.50	1.563	6.00	3.00	3.88	14.00	23.50	264	301
10	250	22.00	10.75	20.25	18.00	1.815	6.50	3.25	3.88	14.00	23.50	385	422
12	300	24.50	12.25	22.25	19.50	1.941	7.00	3.50	6.00	17.63	27.50	517	605
14	350	26.50	13.25	24.50	21.50	2.063	7.50	3.75	6.00	17.63	27.50	704	796
16	400	29.75	15.50	27.50	22.75	2.189	8.50	4.25	8.50	18.00	23.50	924	1074
18	450	32.50	16.75	29.50	26.00	2.315	8.75	4.38	10.25	21.13	27.50	1089	1265
20	500	34.00	18.25	31.00	27.75	2.441	9.00	4.50	10.25	21.13	27.50	1331	1507
24	600	38.00	21.00	34.75	31.00	2.689	10.50	5.25	13.38	22.38	27.50	1991	2275

DOUBLE FLANGED LONG - FACE-TO-FACE API 609 LONG PATTERN - ASME B16.10 (METRIC)

DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
80	3	335	125	296	260	27	282	198	55	221	200	40	45
100	4	365	141	326	290	30.2	305	95	55	221	200	57	62
150	6	447	189	398	350	35	403	108	84	344	500	102	114
200	8	515	236	469	415	39.7	419	128	100	356	600	145	162
250	10	555	272	509	455	46.1	457	140	100	356	600	223	240
300	12	618	310	561	490	49.3	502	153	154	447	700	301	341
350	14	673	335	616	545	52.4	572	154	154	447	700	414	456
400	16	750	389	697	575	55.6	638	168	217	456	600	585	653
450	18	820	422	747	660	58.8	694	164	261	535	700	767	847
500	20	860	461	787	700	62	711	171	261	535	700	897	977
600	24	959	531	880	785	68.3	1143	813	340	567	700	1355	1484

ASME B16.5 Class 300 - Trim C



DOUBLE FLANGED LONG - FACE-TO-FACE API 609 LONG PATTERN - ASME B16.10 (IMPERIAL)

NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
3	80	13.25	5.00	11.75	10.25	1.063	11.13	7.75	2.13	8.75	7.75	88	99
4	100	14.50	5.75	13.00	11.50	1.189	12.00	3.75	2.13	8.75	7.75	125	136
6	150	17.75	7.50	15.75	14.00	1.378	15.88	4.25	3.25	13.50	19.75	224	251
8	200	20.50	9.50	18.50	16.50	1.563	16.50	5.00	3.88	14.00	23.50	319	356
10	250	22.00	10.75	20.25	18.00	1.815	18.00	5.50	3.88	14.00	23.50	491	528
12	300	24.50	12.25	22.25	19.50	1.941	19.75	6.00	6.00	17.63	27.50	662	750
14	350	26.50	13.25	24.50	21.50	2.063	30.00	22.50	6.00	17.63	27.50	911	1003
16	400	29.75	15.50	27.50	22.75	2.189	33.00	24.38	8.50	18.00	23.50	1287	1437
18	450	32.50	16.75	29.50	26.00	2.315	36.00	26.13	10.25	21.13	27.50	1687	1863
20	500	34.00	18.25	31.00	27.75	2.441	39.00	28.00	10.25	21.13	27.50	1973	2149
24	600	38.00	21.00	34.75	31.00	2.689	45.00	32.00	13.38	22.38	27.50	2981	3265

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

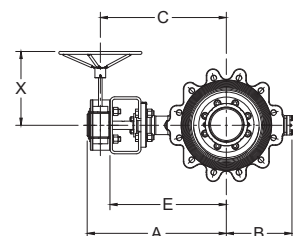
DIMENSIONS AND WEIGHTS / ASME CLASS 300

[BACK TO THE TABLE OF CONTENTS](#)

LUG - FACE-TO-FACE API 609 CLASS 300 (METRIC)

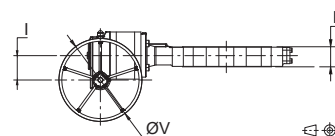
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	18	23
100	4	365	141	326	290	54	55	221	200	22	27
150	6	447	189	398	350	59	84	344	500	41	53
200	8	515	236	469	415	73	100	356	600	56	73
250	10	555	272	509	455	83	100	356	600	77	94
300	12	618	310	561	490	92	154	447	700	119	159
350	14	673	335	616	545	117	154	447	700	254	296
400	16	750	389	697	575	133	217	456	600	300	368
450	18	820	422	747	660	149	261	535	700	455	535
500	20	860	461	787	700	159	261	535	700	499	579
600	24	959	531	880	785	181	340	567	700	788	917

ASME B16.5 Class 300 - Trim C



LUG - FACE TO FACE API 609 CLASS 300 (IMPERIAL)

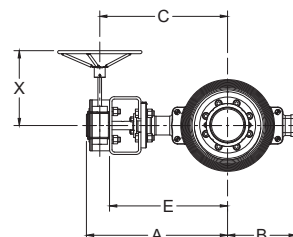
NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
3	80	13.25	5.00	11.75	10.25	1.88	2.13	8.75	7.75	40	51
4	100	14.50	5.75	13.00	11.50	2.13	2.13	8.75	7.75	48	59
6	150	17.75	7.50	15.75	14.00	2.31	3.25	13.50	19.75	90	117
8	200	20.50	9.50	18.50	16.50	2.88	3.88	14.00	23.50	123	161
10	250	22.00	10.75	20.25	18.00	3.25	3.88	14.00	23.50	169	207
12	300	24.50	12.25	22.25	19.50	3.63	6.00	17.63	27.50	262	350
14	350	26.50	13.25	24.50	21.50	4.63	6.00	17.63	27.50	559	651
16	400	29.75	15.50	27.50	22.75	5.25	8.50	18.00	23.50	660	810
18	450	32.50	16.75	29.50	26.00	5.88	10.25	21.13	27.50	1001	1177
20	500	34.00	18.25	31.00	27.75	6.25	10.25	21.13	27.50	1098	1274
24	600	38.00	21.00	34.75	31.00	7.13	13.38	22.38	27.50	1734	2017



WAFLER - FACE-TO-FACE API 609 CLASS 300 (METRIC)

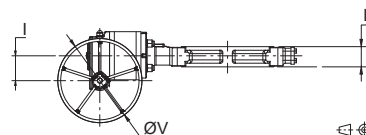
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	14	19
100	4	365	141	326	290	54	55	221	200	15	20
150	6	447	189	398	350	59	84	344	500	29	41
200	8	515	236	469	415	73	100	356	600	50	67
250	10	555	272	509	455	83	100	356	600	75	92
300	12	618	310	561	490	92	154	447	700	109	149
350	14	673	335	616	545	117	154	447	700	164	206
400	16	750	389	697	575	133	217	456	600	228	296
450	18	820	422	747	660	149	261	535	700	285	365
500	20	860	461	787	700	159	261	535	700	343	423
600	24	959	531	880	785	181	340	567	700	513	642

ASME B16.5 Class 300 - Trim C



WAFLER - FACE-TO-FACE API 609 CLASS 300 (IMPERIAL)

NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
3	80	13.25	5.00	11.75	10.25	1.88	2.13	8.75	7.75	31	42
4	100	14.50	5.75	13.00	11.50	2.13	2.13	8.75	7.75	33	44
6	150	17.75	7.50	15.75	14.00	2.31	3.25	13.50	19.75	64	90
8	200	20.50	9.50	18.50	16.50	2.88	3.88	14.00	23.50	110	147
10	250	22.00	10.75	20.25	18.00	3.25	3.88	14.00	23.50	165	202
12	300	24.50	12.25	22.25	19.50	3.63	6.00	17.63	27.50	240	328
14	350	26.50	13.25	24.50	21.50	4.63	6.00	17.63	27.50	361	453
16	400	29.75	15.50	27.50	22.75	5.25	8.50	18.00	23.50	502	651
18	450	32.50	16.75	29.50	26.00	5.88	10.25	21.13	27.50	627	803
20	500	34.00	18.25	31.00	27.75	6.25	10.25	21.13	27.50	755	931
24	600	38.00	21.00	34.75	31.00	7.13	13.38	22.38	27.50	1129	1412



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

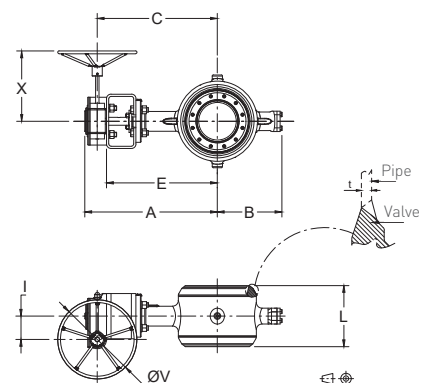
DIMENSIONS AND WEIGHTS / ASME CLASS 300

[BACK TO THE TABLE OF CONTENTS](#)

BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (METRIC)

DN	NPS	A	B	C	E	L	t*	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
80	3	335	125	296	260	180	80	55	221	200	21	26
100	4	365	141	326	290	190	80	55	221	200	30	35
150	6	447	189	398	350	210	80	84	344	500	34	46
200	8	515	236	469	415	230	80	100	356	600	56	73
250	10	555	272	509	455	250	80	100	356	600	74	91
300	12	618	310	561	490	270	80	154	447	700	109	149
350	14	673	335	616	545	290	60	154	447	700	168	210
400	16	750	389	697	575	310	40	217	456	600	196	264
450	18	820	422	747	660	330	40	261	535	700	313	393
500	20	860	461	787	700	350	40	261	535	700	355	435
600	24	959	531	880	785	390	40	340	567	700	503	632

ASME B16.34 Class 300 - Trim C



BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (IMPERIAL)

NPS	DN	A	B	C	E	L	t*	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
3	80	13.25	5.00	11.75	10.25	7.13	3.150	2.13	8.75	7.75	46	57
4	100	14.50	5.75	13.00	11.50	7.50	3.150	2.13	8.75	7.75	66	77
6	150	17.75	7.50	15.75	14.00	8.25	3.150	3.25	13.50	19.75	75	101
8	200	20.50	9.50	18.50	16.50	9.00	3.150	3.88	14.00	23.50	123	161
10	250	22.00	10.75	20.25	18.00	9.88	3.150	3.88	14.00	23.50	163	200
12	300	24.50	12.25	22.25	19.50	10.63	3.150	6.00	17.63	27.50	240	328
14	350	26.50	13.25	24.50	21.50	11.38	2.362	6.00	17.63	27.50	370	462
16	400	29.75	15.50	27.50	22.75	12.25	1.575	8.50	18.00	23.50	431	581
18	450	32.50	16.75	29.50	26.00	13.00	1.575	10.25	21.13	27.50	689	865
20	500	34.00	18.25	31.00	27.75	13.75	1.575	10.25	21.13	27.50	781	957
24	600	38.00	21.00	34.75	31.00	15.38	1.575	13.38	22.38	27.50	1107	1390

* Maximum allowable pipe schedule.

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

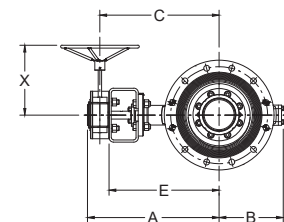
DIMENSIONS AND WEIGHTS / ASME CLASS 600

[BACK TO THE TABLE OF CONTENTS](#)

DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 14 (METRIC)

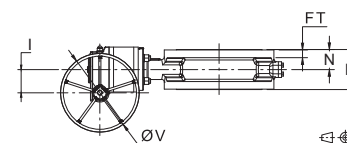
DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
150	6	520	216	474	420	47.7	210	105	100	356	600	130	147
200	8	573	265	516	445	55.6	230	115	154	447	700	205	245
250	10	680	315	627	505	63.5	250	125	217	456	600	320	388
300	12	760	362	687	600	66.7	270	135	261	535	700	440	520
350	14	770	390	697	610	69.9	290	145	261	535	700	490	570
400	16	844	440	765	670	76.2	310	155	340	567	700	630	759
450	18	927	460	837	735	82.6	330	165	253	601	700	820	1025
500	20	1043	526	918	780	88.9	350	175	344	790	700	1100	1486
600	24	1173	623	1048	910	101.6	390	195	344	790	700	1620	2006

ASME B16.5 Class 600 - Trim D



DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 14 (IMPERIAL)

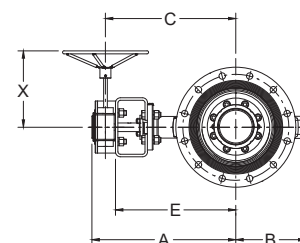
NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
6	150	20.50	8.75	18.75	16.75	1.878	8.25	4.13	3.88	14.00	23.50	286	323
8	200	22.75	10.50	20.50	17.75	2.189	9.00	4.50	6.00	17.63	27.50	451	539
10	250	27.00	12.50	24.75	20.00	2.500	9.88	4.88	8.50	18.00	23.50	704	854
12	300	30.00	14.50	27.25	23.75	2.626	10.63	5.38	10.25	21.13	27.50	968	1144
14	350	30.50	15.50	27.50	24.25	2.752	11.38	5.75	10.25	21.13	27.50	1078	1254
16	400	33.25	17.50	30.25	26.50	3.000	12.25	6.13	13.38	22.38	27.50	1386	1670
18	450	36.50	18.25	33.00	29.00	3.252	13.00	6.50	10.00	23.63	27.50	1804	2255
20	500	41.25	20.75	36.25	30.75	3.500	13.75	6.88	13.50	31.13	27.50	2420	3269
24	600	46.25	24.75	41.50	36.00	4.000	15.38	7.63	13.50	31.13	27.50	3564	4413



DOUBLE FLANGED LONG - FACE-TO-FACE API 609 LONG PATTERN - ASME B16.10 (METRIC)

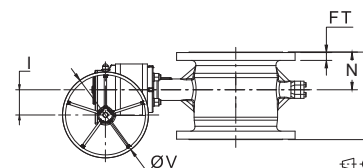
DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
150	6	520	216	474	420	47.7	559	434	100	356	600	165	182
200	8	573	265	516	445	55.6	660	510	154	447	700	265	305
250	10	680	315	627	505	63.5	787	612	217	456	600	456	524
300	12	760	362	687	600	66.7	838	638	261	535	700	596	676
350	14	770	390	697	610	69.9	889	676.5	261	535	700	706	786
400	16	844	440	765	670	76.2	991	753.5	340	567	700	982	1111
450	18	927	460	837	735	82.6	1092	822	253	601	700	1231	1436
500	20	1043	526	918	780	88.9	1194	906.5	344	790	700	1669	2055
600	24	1173	623	1048	910	101.6	1397	698.5	344	790	700	2514	2900

ASME B16.5 Class 600 - Trim D



DOUBLE FLANGED LONG - FACE-TO-FACE API 609 LONG PATTERN - ASME B16.10 (IMPERIAL)

NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
6	150	20.50	8.75	18.75	16.75	1.878	22.00	17.13	3.88	14.00	23.50	363	400
8	200	22.75	10.50	20.50	17.75	2.189	26.00	20.13	6.00	17.63	27.50	583	671
10	250	27.00	12.50	24.75	20.00	2.500	31.00	24.13	8.50	18.00	23.50	1003	1153
12	300	30.00	14.50	27.25	23.75	2.626	33.00	25.13	10.25	21.13	27.50	1311	1487
14	350	30.50	15.50	27.50	24.25	2.752	35.00	26.63	10.25	21.13	27.50	1553	1729
16	400	33.25	17.50	30.25	26.50	3.000	39.00	29.63	13.38	22.38	27.50	2160	2444
18	450	36.50	18.25	33.00	29.00	3.252	43.00	32.38	10.00	23.63	27.50	2708	3159
20	500	41.25	20.75	36.25	30.75	3.500	47.00	35.75	13.50	31.13	27.50	3672	4521
24	600	46.25	24.75	41.50	36.00	4.000	55.00	27.50	13.50	31.13	27.50	5531	6380



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

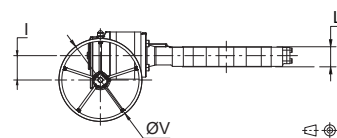
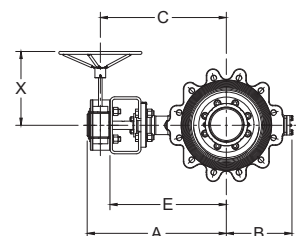
DIMENSIONS AND WEIGHTS / ASME CLASS 600

[BACK TO THE TABLE OF CONTENTS](#)

LUG - FACE-TO-FACE API 609 CLASS 600 (METRIC)

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
150	6	520	216	474	420	78	100	356	600	80	97
200	8	573	265	516	445	102	154	447	700	135	175
250	10	680	315	627	505	117	217	456	600	198	266
300	12	760	362	687	600	140	261	535	700	347	427
350	14	770	390	697	610	155	261	535	700	343	423
400	16	844	440	765	670	178	340	567	700	434	563
450	18	927	460	837	735	200	253	601	700	684	889
500	20	1043	526	918	780	216	344	790	700	824	1210
600	24	1173	623	1048	910	232	344	790	700	1414	1800

ASME B16.5 Class 600 - Trim D



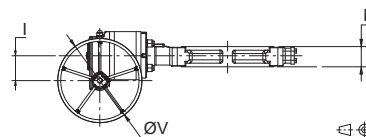
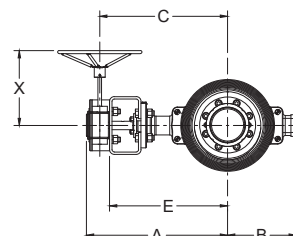
LUG - FACE-TO-FACE API 609 CLASS 600 (IMPERIAL)

NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
6	150	20.50	8.75	18.75	16.75	3.06	3.88	14.00	23.50	176	213
8	200	22.75	10.50	20.50	17.75	4.00	6.00	17.63	27.50	297	385
10	250	27.00	12.50	24.75	20.00	4.63	8.50	18.00	23.50	436	585
12	300	30.00	14.50	27.25	23.75	5.50	10.25	21.13	27.50	763	939
14	350	30.50	15.50	27.50	24.25	6.13	10.25	21.13	27.50	755	931
16	400	33.25	17.50	30.25	26.50	7.00	13.38	22.38	27.50	955	1239
18	450	36.50	18.25	33.00	29.00	7.88	10.00	23.63	27.50	1505	1956
20	500	41.25	20.75	36.25	30.75	8.50	13.50	31.13	27.50	1813	2662
24	600	46.25	24.75	41.50	36.00	9.13	13.50	31.13	27.50	3111	3960

WAFER - FACE-TO-FACE API 609 CLASS 600 (METRIC)

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
150	6	520	216	474	420	78	100	356	600	59	76
200	8	573	265	516	445	102	154	447	700	105	145
250	10	680	315	627	505	117	217	456	600	196	264
300	12	760	362	687	600	140	261	535	700	220	300
350	14	770	390	697	610	155	261	535	700	283	363
400	16	844	440	765	670	178	340	567	700	340	469
450	18	927	460	837	735	200	253	601	700	470	675
500	20	1043	526	918	780	216	344	790	700	510	896
600	24	1173	623	1048	910	232	344	790	700	1015	1401

ASME B16.5 Class 600 - Trim D



WAFER - FACE-TO-FACE API 609 CLASS 600 (IMPERIAL)

NPS	DN	A inch	B inch	C inch	E inch	L inch	I inch	X inch	ØV inch	Valve lbs	Total lbs
6	150	20.50	8.75	18.75	16.75	3.06	3.88	14.00	23.50	130	167
8	200	22.75	10.50	20.50	17.75	4.00	6.00	17.63	27.50	231	319
10	250	27.00	12.50	24.75	20.00	4.63	8.50	18.00	23.50	431	581
12	300	30.00	14.50	27.25	23.75	5.50	10.25	21.13	27.50	484	660
14	350	30.50	15.50	27.50	24.25	6.13	10.25	21.13	27.50	623	799
16	400	33.25	17.50	30.25	26.50	7.00	13.38	22.38	27.50	748	1032
18	450	36.50	18.25	33.00	29.00	7.88	10.00	23.63	27.50	1034	1485
20	500	41.25	20.75	36.25	30.75	8.50	13.50	31.13	27.50	1122	1971
24	600	46.25	24.75	41.50	36.00	9.13	13.50	31.13	27.50	2233	3082

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

DIMENSIONS AND WEIGHTS / ASME CLASS 600

[BACK TO THE TABLE OF CONTENTS](#)

BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (METRIC)

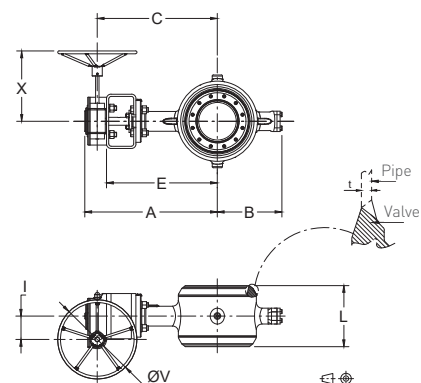
DN	NPS	A	B	C	E	L	t*	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
150	6	520	216	474	420	210	80	100	356	600	71	88
200	8	573	265	516	445	230	100	154	447	700	110	150
250	10	680	315	627	505	250	100	217	456	600	162	230
300	12	760	362	687	600	270	100	261	535	700	215	295
350	14	770	390	697	610	290	100	261	535	700	243	323
400	16	844	440	765	670	310	80	340	567	700	425	554
450	18	927	460	837	735	330	80	253	601	700	512	717
500	20	1043	526	918	780	350	80	344	790	700	600	986
600	24	1173	623	1048	910	390	80	344	790	700	848	1234

BUTTWELD - END-TO-END ISO 5752 BASIC SERIES 14 (IMPERIAL)

NPS	DN	A	B	C	E	L	t*	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
6	150	20.50	8.75	18.75	16.75	8.25	3.150	3.88	14.00	23.50	156	194
8	200	22.75	10.50	20.50	17.75	9.06	3.937	6.00	17.63	27.50	242	330
10	250	27.00	12.50	24.75	20.00	9.81	3.937	8.50	18.00	23.50	356	506
12	300	30.00	14.50	27.25	23.75	10.63	3.937	10.25	21.13	27.50	473	649
14	350	30.50	15.50	27.50	24.25	11.44	3.937	10.25	21.13	27.50	535	711
16	400	33.25	17.50	30.25	26.50	12.19	3.150	13.38	22.38	27.50	935	1219
18	450	36.50	18.25	33.00	29.00	13.00	3.150	10.00	23.63	27.50	1126	1577
20	500	41.25	20.75	36.25	30.75	13.75	3.150	13.50	31.13	27.50	1320	2169
24	600	46.25	24.75	41.50	36.00	15.38	3.150	13.50	31.13	27.50	1866	2715

* Maximum allowable pipe schedule.

ASME B16.34 Class 600 - Trim D



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

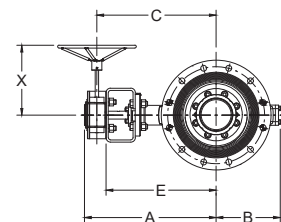
DIMENSIONS AND WEIGHTS / ASME CLASS 900

[BACK TO THE TABLE OF CONTENTS](#)

DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 8 (METRIC)

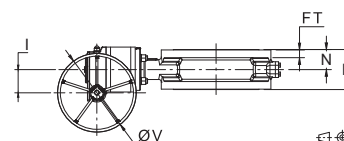
DN	NPS	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
150	6	505	226	459	405	55.6	225	112.5	100	356	600	180	197
200	8	613	277	556	485	63.5	275	137.5	154	447	700	295	337
250	10	735	337	662	575	69.9	325	162.5	261	535	700	460	540
300	12	829	401	750	655	79.4	375	187.5	340	567	700	630	759
350	14	907	438	817	715	85.8	425	212.5	253	601	700	810	1015
400	16	922	492	832	730	88.9	475	237.5	253	601	700	1025	1230
450	18	1013	509	888	750	101.6	500	250.0	344	790	700	1290	1676
500	20	1133	582	1008	870	108	575	287.5	344	790	700	1795	2181
600	24	1263	672	1138	1000	139.7	675	337.5	428	790	700	2995	3425

ASME B16.5 Class 900 - Trim E



DOUBLE FLANGED SHORT - FACE-TO-FACE ISO 5752 BASIC SERIES 8 (IMPERIAL)

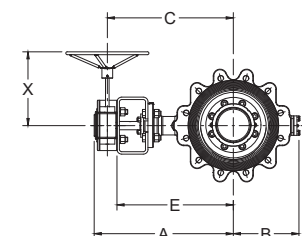
NPS	DN	A	B	C	E	FT	L	N	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
6	150	20.00	9.00	18.25	16.00	2.189	8.88	4.38	3.88	14.00	23.50	396	433
8	200	24.25	11.00	22.00	19.25	2.500	10.88	5.38	6.00	17.63	27.50	649	741
10	250	29.00	13.50	26.25	22.75	2.752	12.75	6.38	10.25	21.13	27.50	1012	1188
12	300	32.75	16.00	29.75	26.00	3.126	14.75	7.38	13.38	22.38	27.50	1386	1670
14	350	35.75	17.25	32.25	28.25	3.378	16.75	8.38	10.00	23.63	27.50	1782	2233
16	400	36.50	19.50	32.75	28.75	3.500	18.75	9.38	10.00	23.63	27.50	2255	2706
18	450	40.00	20.25	35.00	29.75	4.000	19.63	9.88	13.50	31.13	27.50	2838	3687
20	500	44.75	23.00	39.75	34.50	4.252	22.63	11.38	13.50	31.13	27.50	3949	4798
24	600	49.75	26.50	45.00	39.50	5.500	26.63	13.25	16.88	31.13	27.50	6589	7535



LUG - FACE-TO-FACE VANESSA STANDARD (METRIC)

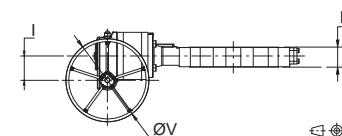
DN	NPS	A	B	C	E	L	I	X	ØV	Valve	Total
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
150	6	505	226	459	405	105	100	356	600	115	132
200	8	613	277	556	485	140	154	447	700	260	302
250	10	735	337	662	575	155	261	535	700	327	407
300	12	829	401	750	655	178	340	567	700	490	619
350	14	907	438	817	715	229	253	601	700	670	875
400	16	922	492	832	730	241	253	601	700	888	1093
450	18	1013	509	888	750	244	344	790	700	1053	1439
500	20	1133	582	1008	870	300	344	790	700	1441	1827
600	24	1263	672	1138	1000	350	428	790	700	2238	2668

ASME B16.5 Class 900 - Trim E



LUG - FACE-TO-FACE VANESSA STANDARD (IMPERIAL)

NPS	DN	A	B	C	E	L	I	X	ØV	Valve	Total
inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbs
6	150	20.00	9.00	18.25	16.00	4.13	3.88	14.00	23.50	253	290
8	200	24.25	11.00	22.00	19.25	5.50	6.00	17.63	27.50	572	664
10	250	29.00	13.50	26.25	22.75	6.13	10.25	21.13	27.50	719	895
12	300	32.75	16.00	29.75	26.00	7.00	13.38	22.38	27.50	1078	1362
14	350	35.75	17.25	32.25	28.25	9.00	10.00	23.63	27.50	1474	1925
16	400	36.50	19.50	32.75	28.75	9.50	10.00	23.63	27.50	1954	2405
18	450	40.00	20.25	35.00	29.75	9.63	13.50	31.13	27.50	2317	3166
20	500	44.75	23.00	39.75	34.50	11.81	13.50	31.13	27.50	3170	4019
24	600	49.75	26.50	45.00	39.50	13.75	16.88	31.13	27.50	4924	5870



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

EN TYPICAL MATERIAL SELECTION

[BACK TO THE TABLE OF CONTENTS](#)

EN TYPICAL MATERIAL SELECTION - please refer to basic configuration sectional drawing on page 17

Item	Note	Description	Body in carbon steel ⁽¹⁾	Body in stainless steel ⁽²⁾
1		Body	EN 10213 1.0619	EN 10213 1.4408
		Weld surfacing on seat	Stellite® gr.21	Stellite® gr.21
2	☐	Cast disc	EN 10213 1.0619	EN 10213 1.4408
		Forged disc	EN 10222-2 P280GH 1.0426	EN 10222-5 1.4401
		Retainer flange	ASTM A516 gr. 70 [1.0425]	ASTM A240 gr.316 [1.4404]
		Retainer flange screw	ISO 3506 A4	ISO 3506 A4
4		Shaft	ASTM A479 UNS S41000 [1.4006]	ASTM A479 XM19 - UNS S20910 (Nitronic 50®)
5	☐	Packing bushing	ASTM A240 / A182 / A276 UNS S31600 [1.4401]	ASTM A240 / A182 / A276 UNS S31600 [1.4404]
		Stud nut	ISO 3506 A4	ISO 3506 A4
		Stud bolts	ISO 3506 A4	ISO 3506 A4
		Packing flange	ASTM A240 / A182 / A276 UNS S31600 [1.4401]	ASTM A240 / A182 / A276 UNS S31600 [1.4404]
6	☐	Bottom flange	EN 10213 1.0619 or EN 10028-2 1.0425 or ASTM A516 gr. 70	ASTM A240 gr. 316 or ASTM A182 F316 [1.4404] or EN 10213 1.4408
		Screw	ISO 3506 A4	ISO 3506 A4
7		Thrust bearing	UNS S31600 [1.4401] hard faced	UNS S31600 [1.4404] hard faced
8		Bearing	UNS S31600 [1.4401] hard faced	UNS S31600 [1.4404] hard faced
		Bearing protector	Graphite ring	Graphite ring
S	☐	Packing	Graphite	Graphite
	☐	Bottom spiral wound gasket	UNS S31600 [1.4401] + graphite	UNS S31600 [1.4404] + graphite
	☐ ♦	Seal ring	UNS S31803 [1.4462] (duplex) + graphite or UNS S17400 [1.4542] (17-4 PH) hard faced	UNS S31803 [1.4462] + graphite or UNS S20910 [1.3964] hard faced
	☐	Seal ring spiral wound gasket	UNS S31600 [1.4401] + graphite	UNS S31600 [1.4404] + graphite

NOTES

1. Heat treated EN 10213 1.0619 [-46 to 426°C] can be used without any restrictions from -46 to 450°C.
Carbon Steel (1.0619) valve material selection is compliant with the requirements of NACE MR0103/ISO 17945 and NACE MR0175 / ISO 15156 for H₂S partial pressures ≤ 10 kPa and pH values 3.5

2. Stainless steel (1.4408) valve material selection is compliant with the requirements of NACE MR103 / ISO 17945 and NACE MR0175 / ISO 15156

☐ Materials are exclusively selected by factory depending on valve size.

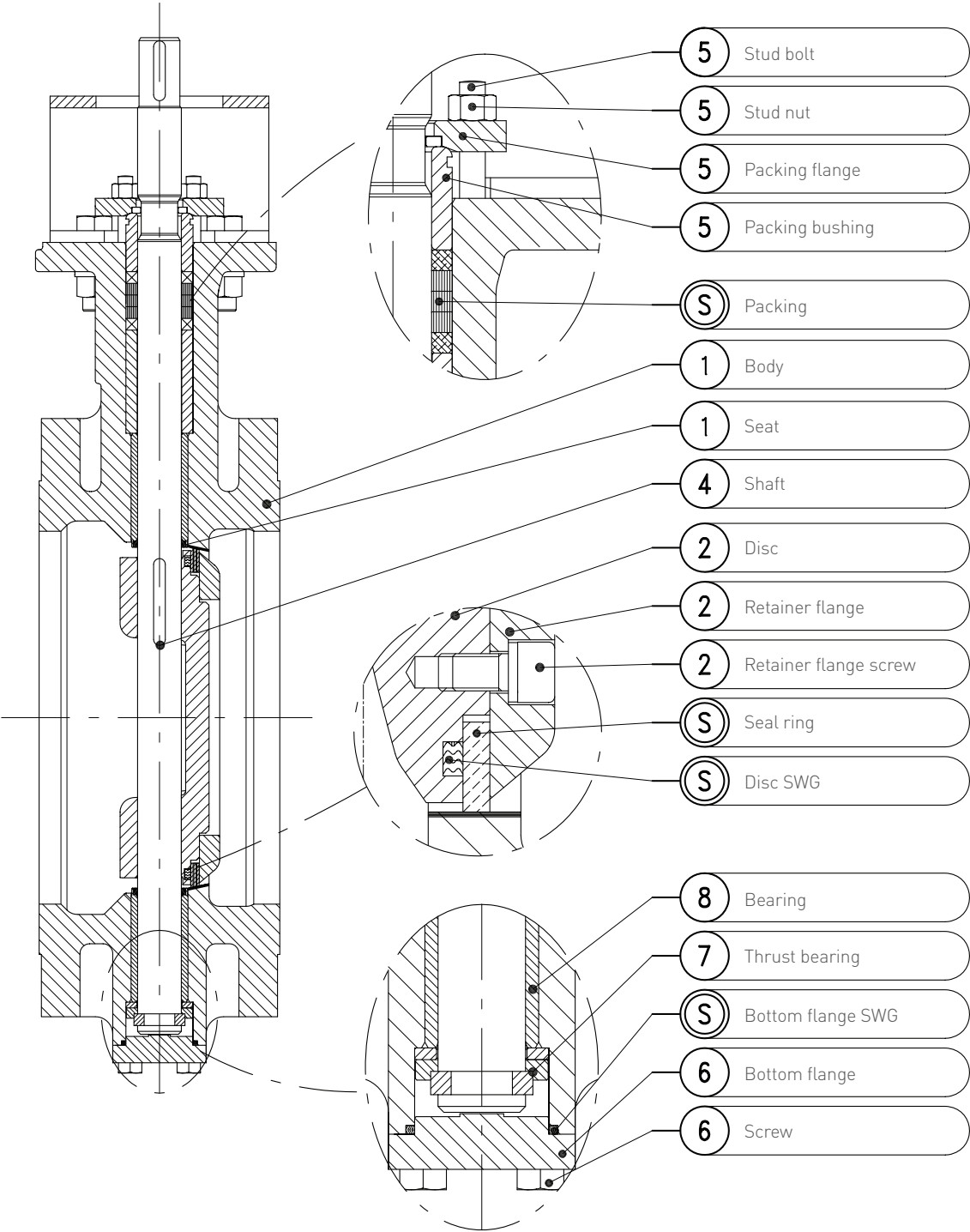
☐ Suggested spare parts.

♦ Solid seal rings in UNS S17400 (1.4542) (17-4 PH) or UNS S20910 (1.3964) are supplied depending on applications and can be requested as an option.

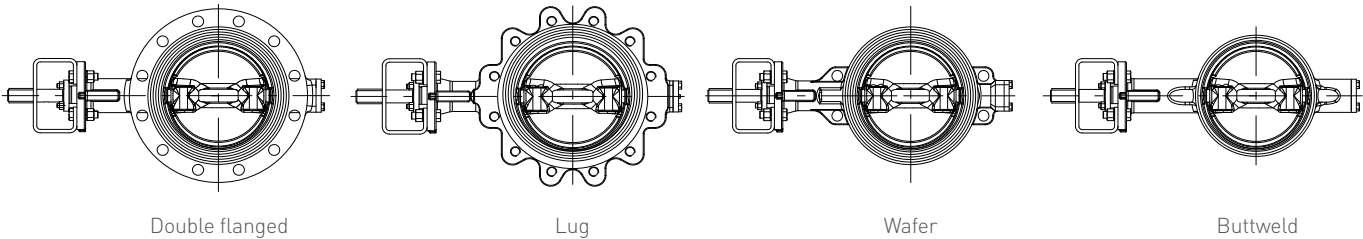
Vanessa Series 30,000 triple offset valves are also manufactured in a wide range of valve body materials, including: carbon steel and low temperature carbon steel e.g. GP280GH, G20Mo5, G17CrMo5-5; G17CrMo9-10; high temperature alloy steel e.g. 1.5419, 1.7357, 1.7379; austenitic stainless steel e.g. 1.4309, 1.4308, 1.4552, 1.4409, 1.4458.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES
 BASIC CONFIGURATION SECTIONAL DRAWING

[BACK TO THE TABLE OF CONTENTS](#)



Available body styles:



VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

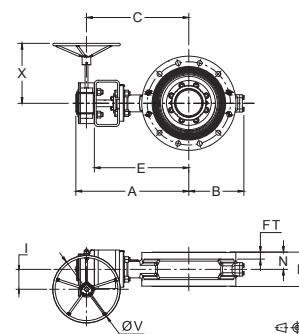
DIMENSIONS AND WEIGHTS / EN PN 10 / 16 / 25 / 40

[BACK TO THE TABLE OF CONTENTS](#)

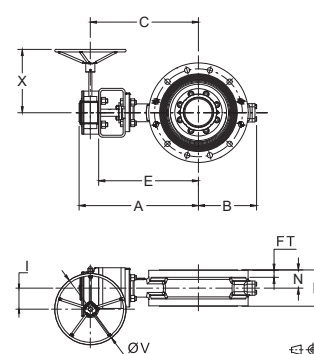
DOUBLE FLANGED SHORT - FACE-TO-FACE EN 558 BASIC SERIES 13 (METRIC) - PN 10

DN	NPS	A mm	B mm	C mm	E mm	FT mm	L mm	N mm	I mm	X mm	ØV mm	Valve mm	Total kg
80	3	335	125	296	260	24.0	114	57.0	55	221	200	30	35
100	4	365	141	326	290	24.0	127	63.5	55	221	200	45	50
150	6	405	165	366	330	25.5	140	70.0	55	221	200	55	60
200	8	482	214	433	385	30.0	152	76.0	84	344	500	90	102
250	10	522	243	473	425	30.0	165	82.5	84	344	500	125	137
300	12	590	286	544	490	32.0	178	89.0	100	356	600	165	182
350	14	625	312	579	525	35.0	190	95.0	100	356	600	200	217
400	16	673	350	616	545	37.0	216	108.0	154	447	700	260	300
450	18	708	383	651	580	40.0	222	111.0	154	447	700	315	355
500	20	768	407	711	640	48.0	229	114.5	154	447	700	395	437
600	24	865	484	812	690	58.0	267	133.5	217	456	600	570	638

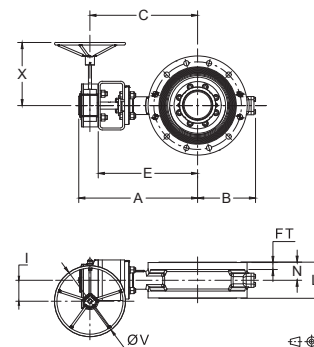
EN 1092-1 PN 10 - Trim B



EN 1092-1 PN 16 - Trim B



EN 1092-1 PN 25 - Trim B

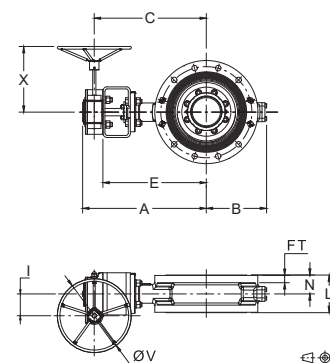


DOUBLE FLANGED SHORT - FACE-TO-FACE EN 558 BASIC SERIES 13 (METRIC) - PN 25

DN	NPS	A mm	B mm	C mm	E mm	FT mm	L mm	N mm	I mm	X mm	ØV mm	Valve mm	Total kg
200	8	482	214	433	385	30.0	152	76.0	84	344	500	90	102
250	10	522	243	473	425	32.0	165	82.5	84	344	500	125	137
300	12	590	286	544	490	34.0	178	89.0	100	356	600	165	182
350	14	625	312	579	525	38.0	190	95.0	100	356	600	228	245
400	16	673	350	616	545	40.0	216	108.0	154	447	700	283	323
450	18	708	383	651	580	46.0	222	111.0	154	447	700	350	390
500	20	768	407	711	640	48.0	229	114.5	154	447	700	420	462
600	24	865	484	812	690	58.0	267	133.5	217	456	600	700	768

NOTE: Diameters ranging from DN 80 to 150 are available in PN 40 only. However, please note that PN 40 valve bodies can be assembled to PN 25 pipe flanges.

EN 1092-1 PN 40 - Trim C



DOUBLE FLANGED SHORT - FACE-TO-FACE EN 558 BASIC SERIES 13 (METRIC) - PN 40

DN	NPS	A mm	B mm	C mm	E mm	FT mm	L mm	N mm	I mm	X mm	ØV mm	Valve mm	Total kg
80	3	335	125	296	260	28.5	114	57.0	55	221	200	35	40
100	4	365	141	326	290	32.0	127	63.5	55	221	200	45	50
150	6	447	189	398	350	37.0	140	70.0	84	344	500	80	92
200	8	515	236	469	415	41.5	152	76.0	100	356	600	120	137
250	10	555	272	509	455	47.5	165	82.5	100	356	600	175	192
300	12	618	310	561	490	51.0	178	89.0	154	447	700	235	275
350	14	673	335	616	545	54.0	190	95.0	154	447	700	320	362
400	16	750	389	697	575	57.0	216	108.0	217	456	600	420	488
450	18	820	422	747	660	60.0	222	111.0	261	535	700	495	575
500	20	860	461	787	700	64.0	229	114.5	261	535	700	605	685
600	24	959	531	880	785	72.0	267	133.5	340	567	700	905	1034

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

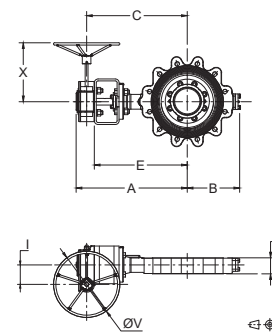
DIMENSIONS AND WEIGHTS / EN PN 10 / 16 / 25 / 40

[BACK TO THE TABLE OF CONTENTS](#)

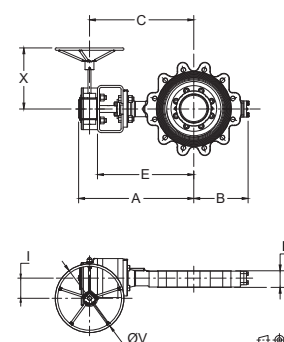
LUG - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 10 / 16

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	64	55	221	200	19	24
100	4	365	141	326	290	64	55	221	200	21	26
150	6	405	165	366	330	76	55	221	200	30	35
200	8	482	214	433	385	89	84	344	500	52	64
250	10	522	243	473	425	114	84	344	500	66	78
300	12	590	286	544	490	114	100	356	600	87	104
350	14	625	312	579	525	127	100	356	600	175	192
400	16	673	350	616	545	140	154	447	700	223	263
450	18	708	383	651	580	152	154	447	700	294	334
500	20	768	407	711	640	152	154	447	700	348	390
600	24	865	484	812	690	178	217	456	600	456	524

EN 1092-1 PN 10 / PN 16 - Trim B



EN 1092-1 PN 25 - Trim B

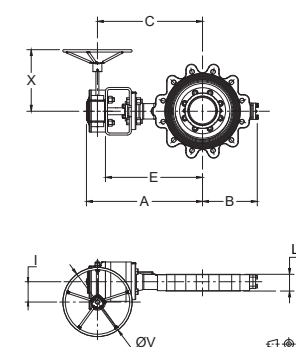


LUG - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 25

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
200	8	482	214	433	385	89	84	344	500	52	64
250	10	522	243	473	425	114	84	344	500	66	78
300	12	590	286	544	490	114	100	356	600	108	125
350	14	625	312	579	525	127	100	356	600	175	192
400	16	673	350	616	545	140	154	447	700	223	263
450	18	708	383	651	580	152	154	447	700	303	343
500	20	768	407	711	640	152	154	447	700	348	390
600	24	865	484	812	690	178	217	456	600	456	524

NOTE: Diameters ranging from DN 80 to 150 are available in PN 40 only. However, please note that PN 40 valve bodies can be assembled to PN 25 pipe flanges.

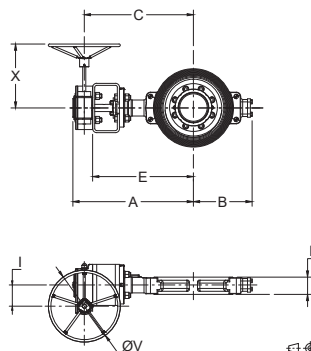
EN 1092-1 PN 40 - Trim C



LUG - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 40

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	64	55	221	200	19	24
100	4	365	141	326	290	64	55	221	200	21	26
150	6	447	189	398	350	76	84	344	500	40	52
200	8	515	236	469	415	89	100	356	600	60	77
250	10	555	272	509	455	114	100	356	600	91	108
300	12	618	310	561	490	114	154	447	700	132	172
350	14	673	335	616	545	127	154	447	700	251	293
400	16	750	389	697	575	140	217	456	600	310	378
450	18	820	422	747	660	152	261	535	700	420	500
500	20	860	461	787	700	152	261	535	700	441	521
600	24	959	531	880	785	178	340	567	700	675	804

EN 1092-1 PN 10 / PN 16 - Trim B



WAFER - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 10 / 16

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	64	55	221	200	16	21
100	4	365	141	326	290	64	55	221	200	17	22
150	6	405	165	366	330	76	55	221	200	21	26
200	8	482	214	433	385	89	84	344	500	40	52
250	10	522	243	473	425	114	84	344	500	53	65
300	12	590	286	544	490	114	100	356	600	77	94
350	14	625	312	579	525	127	100	356	600	119	136
400	16	673	350	616	545	140	154	447	700	139	179
450	18	708	383	651	580	152	154	447	700	181	221
500	20	768	407	711	640	152	154	447	700	256	298
600	24	865	484	812	690	178	217	456	600	364	432

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

DIMENSIONS AND WEIGHTS / EN PN 10 / 16 / 25 / 40

[BACK TO THE TABLE OF CONTENTS](#)

WAFER - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 25

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
200	8	482	214	433	385	89	84	344	500	40	52
250	10	522	243	473	425	114	84	344	500	53	65
300	12	590	286	544	490	114	100	356	600	77	94
350	14	625	312	579	525	127	100	356	600	119	136
400	16	673	350	616	545	140	154	447	700	139	179
450	18	708	383	651	580	152	154	447	700	181	221
500	20	768	407	711	640	152	154	447	700	256	298
600	24	865	484	812	690	178	217	456	600	364	432

NOTE: Diameters ranging from DN 80 to 150 are available in PN 40 only. However, please note that PN 40 valve bodies can be assembled to PN 25 pipe flanges.

WAFER - FACE-TO-FACE EN 558 BASIC SERIES 16 (METRIC) - PN 40

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	64	55	221	200	16	21
100	4	365	141	326	290	64	55	221	200	17	22
150	6	447	189	398	350	76	84	344	500	32	44
200	8	515	236	469	415	89	100	356	600	53	70
250	10	555	272	509	455	114	100	356	600	86	103
300	12	618	310	561	490	114	154	447	700	111	151
350	14	673	335	616	545	127	154	447	700	165	207
400	16	750	389	697	575	140	217	456	600	227	295
450	18	820	422	747	660	152	261	535	700	285	365
500	20	860	461	787	700	152	261	535	700	325	405
600	24	959	531	880	785	178	340	567	700	496	625

WAFER - FACE-TO-FACE API 609 CATEGORY B (METRIC) - PN 10 / 16

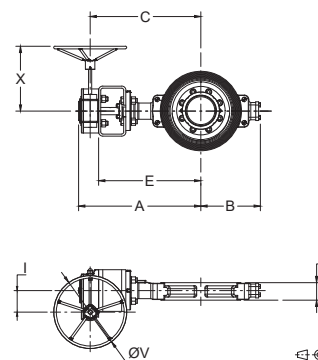
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	14	19
100	4	365	141	326	290	54	55	221	200	15	20
150	6	405	165	366	330	57	55	221	200	20	25
200	8	482	214	433	385	64	84	344	500	34	46
250	10	522	243	473	425	71	84	344	500	45	57
300	12	590	286	544	490	81	100	356	600	73	90
350	14	625	312	579	525	92	100	356	600	97	114
400	16	673	350	616	545	102	154	447	700	123	163
450	18	708	383	651	580	114	154	447	700	164	204
500	20	768	407	711	640	127	154	447	700	220	262
600	24	865	484	812	690	154	217	456	600	324	392

WAFER - FACE-TO-FACE API 609 CATEGORY B (METRIC) - PN 25

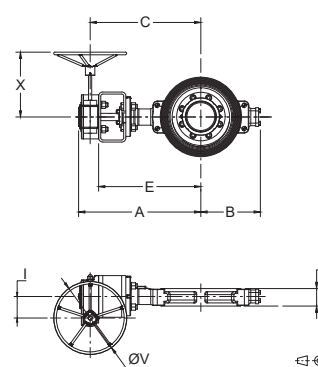
DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
200	8	482	214	433	385	64	84	344	500	34	46
250	10	522	243	473	425	71	84	344	500	45	57
300	12	590	286	544	490	81	100	356	600	73	90
350	14	625	312	579	525	92	100	356	600	97	114
400	16	673	350	616	545	102	154	447	700	123	163
450	18	708	383	651	580	114	154	447	700	164	204
500	20	768	407	711	640	127	154	447	700	220	262
600	24	865	484	812	690	154	217	456	600	324	392

NOTE: Diameters ranging from DN 80 to 150 are available in PN 40 only. However, please note that PN 40 valve bodies can be assembled to PN 25 pipe flanges.

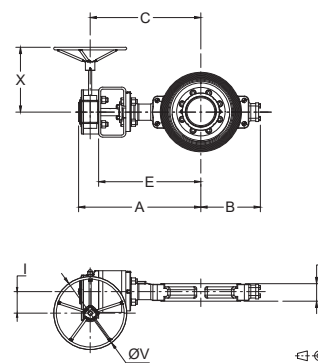
EN 1092-1 PN 25 - Trim B



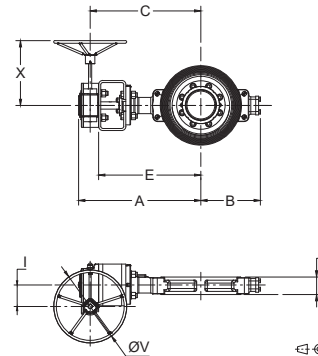
EN 1092-1 PN 40 - Trim C



EN 1092-1 PN 10 / PN 16 - Trim B



EN 1092-1 PN 25 - Trim B



Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

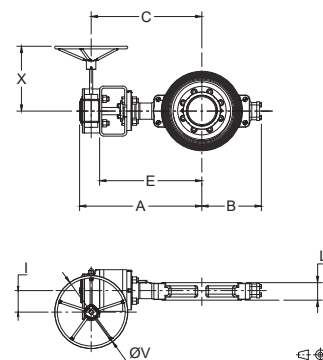
DIMENSIONS AND WEIGHTS / EN PN 10 / 16 / 25 / 40

[BACK TO THE TABLE OF CONTENTS](#)

WAFER - FACE-TO-FACE API 609 CATEGORY B (METRIC) - PN 40

DN	NPS	A mm	B mm	C mm	E mm	L mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	48	55	221	200	14	19
100	4	365	141	326	290	54	55	221	200	15	20
150	6	447	189	398	350	59	84	344	500	29	41
200	8	515	236	469	415	73	100	356	600	50	67
250	10	555	272	509	455	83	100	356	600	75	92
300	12	618	310	561	490	92	154	447	700	109	149
350	14	673	335	616	545	117	154	447	700	164	206
400	16	750	389	697	575	133	217	456	600	228	296
450	18	820	422	747	660	149	261	535	700	285	365
500	20	860	461	787	700	159	261	535	700	343	423
600	24	959	531	880	785	181	340	567	700	513	642

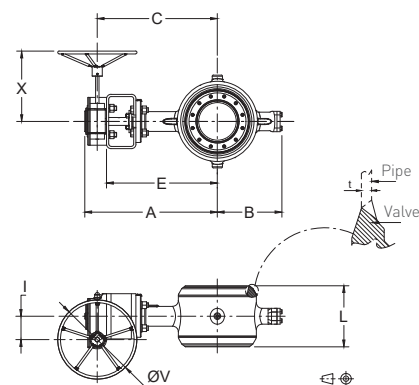
EN 1092-1 PN 40 - Trim C



BUTTWELD - END-TO-END EN 12982 BASIC SERIES 14 (METRIC) - PN 10 / 16 / 25

DN	NPS	A mm	B mm	C mm	E mm	L mm	t* mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	180	8.0	55	221	200	19	24
100	4	365	141	326	290	190	9.0	55	221	200	27	32
150	6	405	165	366	330	210	11.0	55	221	200	32	37
200	8	482	214	433	385	230	10.5	84	344	500	42	54
250	10	522	243	473	425	250	9.5	84	344	500	56	68
300	12	590	286	544	490	270	10.5	100	356	600	82	99
350	14	625	312	579	525	290	11.5	100	356	600	108	125
400	16	673	350	616	545	310	13.0	154	447	700	127	167
450	18	708	383	651	580	330	14.5	154	447	700	144	184
500	20	768	407	711	640	350	15.0	154	447	700	196	238
600	24	865	484	812	690	390	17.5	217	456	600	283	351

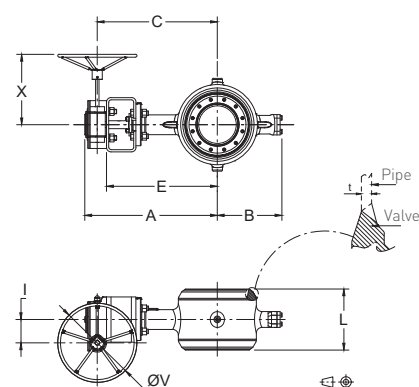
EN 12516 PN 10 / PN 16 / PN 25 - Trim B



BUTTWELD - END-TO-END EN 12982 BASIC SERIES 14 (METRIC) - PN 40

DN	NPS	A mm	B mm	C mm	E mm	L mm	t* mm	I mm	X mm	ØV mm	Valve kg	Total kg
80	3	335	125	296	260	180	8.0	55	221	200	21	26
100	4	365	141	326	290	190	9.0	55	221	200	30	35
150	6	447	189	398	350	210	11.0	84	344	500	34	46
200	8	515	236	469	415	230	13.0	100	356	600	56	73
250	10	555	272	509	455	250	16.0	100	356	600	74	91
300	12	618	310	561	490	270	18.0	154	447	700	109	149
350	14	673	335	616	545	290	16.0	154	447	700	168	210
400	16	750	389	697	575	310	12.7	217	456	600	196	264
450	18	820	422	747	660	330	14.5	261	535	700	313	393
500	20	860	461	787	700	350	15.5	261	535	700	355	435
600	24	959	531	880	785	390	17.5	340	567	700	503	632

EN 12516-1 PN 40 - Trim C



* Maximum allowable pipe schedule.

Please see notes on page 3.

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES

CERTIFICATION

[BACK TO THE TABLE OF CONTENTS](#)

CERTIFICATION TABLE

Quality management system	ISO 9001:2015 Pressure Equipment Directive (PED 2014/68/EU, Module H)	
Regional product certification	AD 2000 Merkblatt HP0 - AD 2000 Merkblatt A4 CRN - Canadian Registration Number (CSA B51 Standard) TR CU 010/2011 TR CU 012/2011 TR CU 032/2013 TSG D7002:2023 TSG 07-2019 KGS AA317	
Environmental management system	ISO 14001:2015	
Health and safety management system	ISO 45001:2018	
Energy management system	ISO 50001:2018	
Product	Welding	EN ISO 3834-2
	Fire safety	API 607
	Fugitive emission	ISO 15848-1 EPA Method 21 TÜV TA Luft / VDI 2440
	Performance	SIL 3 capable
Applicable product standards	Design	Design standards: API 609 and EN 593; ASME B16.34 and EN 12516 Flange standards: ASME B16.5; ASME B16.47; EN 1092-1; ISO 7005 Buttweld ends: ASME B16.25; EN 12627 Face-to-face: ISO 5752; EN 558; ASME B16.10; API 609 End to end: ISO 5752; EN 12982
	Testing	API 598 EN 12266-1

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