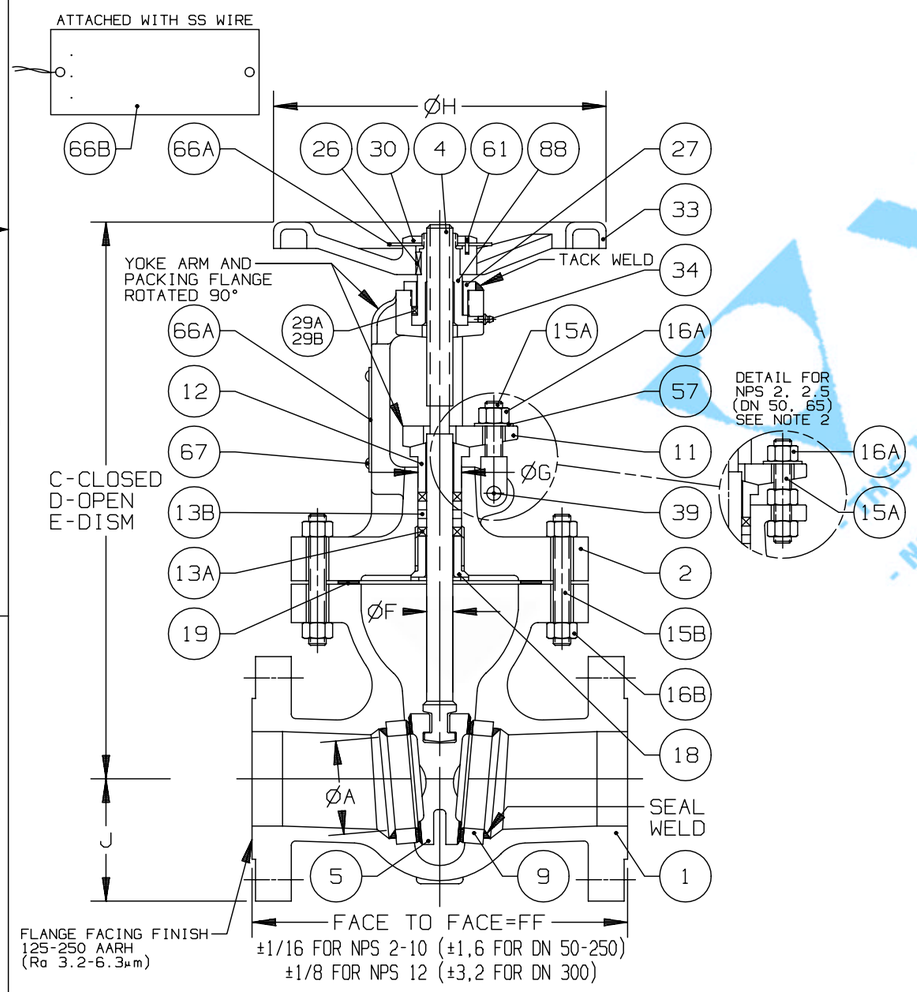
CLASS 150

NPS	ØA	FF	C	D	E	ØF	ØG	ØH	J	Cv	WEIGHT Lb
2	2.00	7.00	13.19	15.63	20.38	0.75	1.25	8	3.00	260	48
2 1/2	2.50	7.50	14.00	16.88	22.14	0.75	1.25	8	3.50	420	59
3	3.00	8.00	14.78	18.56	24.26	0.87	1.37	10	3.75	625	78
4	4.00	9.00	17.81	22.25	28.32	1.00	1.50	10	4.50	1150	117
6	6.00	10.50	24.25	31.19	38.00	1.12	1.75	14	5.50	2650	198
8	8.00	11.50	29.47	38.19	46.13	1.25	1.87	18	6.75	4850	319
10	10.00	13.00	36.09	47.16	56.28	1.37	2.00	20	8.00	7750	515
12	12.00	14.00	42.94	55.91	66.75	1.50	2.25	20	9.50	11500	738
DN										Kv	Kg
50	50.8	177.8	335	397	518	19.0	31.7	203	76.2	224	22
65	63.5	190.5	356	429	562	19.0	31.7	203	88.9	361	27
80	76.2	203.2	375	471	616	22.2	34.9	254	95.3	538	35
100	101.6	228.6	452	565	719	25.4	38.1	254	114.3	989	53
150	152.4	266.7	616	792	965	28.6	44.4	356	139.7	2279	90
200	203.2	292.1	749	970	1172	31.7	47.5	457	171.5	4171	145
250	254.0	330.2	917	1198	1430	34.9	50.8	508	203.2	6665	234
300	304.8	355.6	1091	1420	1695	38.1	57.1	508	241.3	9890	335



MATERIAL LIST (02TY-150)

PART	DESCRIPTION	QTY	MATERIAL	MATL SPEC	REMARKS
1	BODY	1	WCB	ASTM A216	
2	BONNET	1	WCB	ASTM A216	
4	STEM	1	410	ASTM A479	HARDENED
5	WEDGE	1	CA-15	ASTM A217	
			WCB	ASTM A216	13%Cr. FACE
9	SEAT	2	CS	ASTM A105	STLT 6 FACE
11	PACKING FLANGE	1	CS	ASTM A105	
12	GLAND BUSHING	1	CS	ASTM A108	
13A	PACKING RING	2	BRAID. GRAPH.	GARLOCK 1303 FEP	
13B	PACKING RING	3	GRAPH RIBBON	JC 237	OR EQUAL.
15A	GLAND STUD	2	GR B	ASTM A307	NOTE 2
15B	BODY/BONNET STUD	-	GR B7	ASTM A193	
16A	GLAND NUT	2	GR 2H	ASTM A194	NPS 2, 2.5(DN50,65)QTY.6
16B	BODY/BONNET NUT	-	GR 2H	ASTM A194	
18	BACKSEAT	1	410	ASTM A479	HARDENED
19	GASKET	1	CS/GRAPHITE	CORRUGATED	NOTE 3
26	KEY	1	CS	ASTM A108	
27	YOKE BUSHING	1	CS	ASTM A108	
29A	BEARING	1	TORRINGTON	NTA-4458	NPS 10-12 (DN 250-300)
29B	THRUST RACE	2	TORRINGTON	TRA-4458	
30	HANDWHEEL NUT	1	MALL. IRON	ASTM A47	
33	HANDWHEEL	1	MALL. IRON	ASTM A47	
34	GREASE FITTING	1	STEEL	COMMERCIAL	
39	GROOVE PIN	2	CS	ASTM A108	NPS 2, 2.5(DN50,65)NONE
57	WASHER	2	CS	SAE TYPE	
61	SPRING PIN	1	CS	COMMERCIAL	1/8"DIA.x3/4"LG
66A	NAMEPLATE	1	SS☐ or ALUM.O	COMMERCIAL	MFG. OPTION
66B	TAG PLATE	1	SS	COMMERCIAL	OPTIONAL
67	RIVET	2	SS	COMMERCIAL	ALT. SPOTWELDED
88	STEM NUT	1	TYPE D-2C	ASTM A439	

NOTES:
1) VALVES DESIGN IN ACCORDANCE WITH ASME B16.34 AND API 600(MIN WALL THICKNESS IS TO API 600).
2) NPS 2, 2.5 (DN 50,65) STUD GR B7 ASTM A193.
3) NPS 2, 2.5 (DN 50,65) MAT'L 316L or 347/GRAPHITE/SPIRAL WOUND.

VELAN
- THIS IS A GENERIC DRAWING / REFERENCE ONLY
- NOT FOR MANUFACTURING / SIZING
- DUE TO THE POSSIBILITY OF DESIGN MODIFICATIONS THIS DRAWING IS TO BE USED AS A GUIDELINE ONLY
- VELAN WILL NOT ACCEPT ANY LIABILITY FOR DIFFERENCES BETWEEN THIS DRAWING AND THE PRODUCT SPECIFIC
- CONSULT ENGINEERING DEPARTMENT FOR SPECIFIC APPLICATIONS

REV	DESCRIPTION	DATE	DWN	APVD	IR CERT

VELAN ORDER NO: .
CUSTOMER: . ORDER NO: .
PROJECT: . JOB NO: .

VELAN

NPS 2-12 / DN 50-300
(FLANGED ENDS)
CAST STEEL GATE VALVES

CLASS 150 / PN 20

DRAWN : Y.AUDET 93-09-20
APVD : C.BERUBE 01-09-19
IND REV CERTIFIED : J.DESLANDES 01-09-19
DWG NO : 4F-0064C-02TY-01
SHEET 1 OF 1
REV.E DATE:01-09-19

MASTER DWG:4F-0064C-02TY-01

REF NO			
			9937-001
	9955-001	9928-000	9910-001
	9946-000	9919-000	9901-001