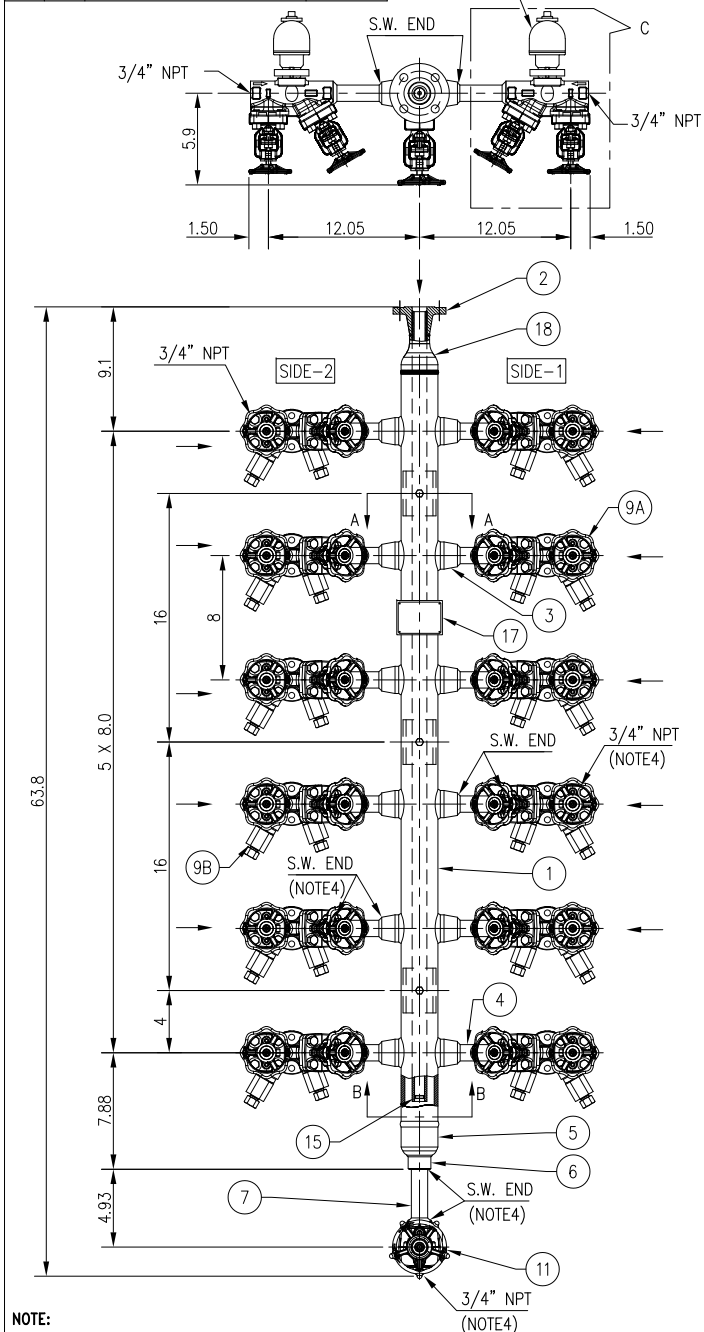


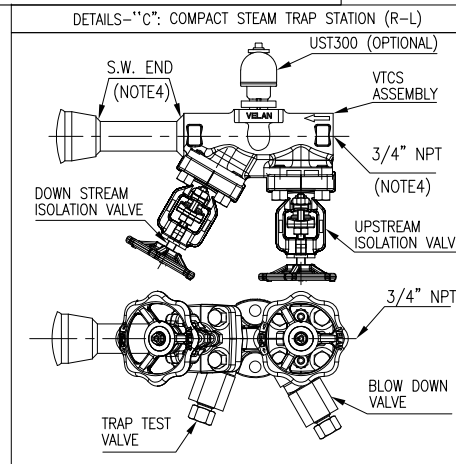
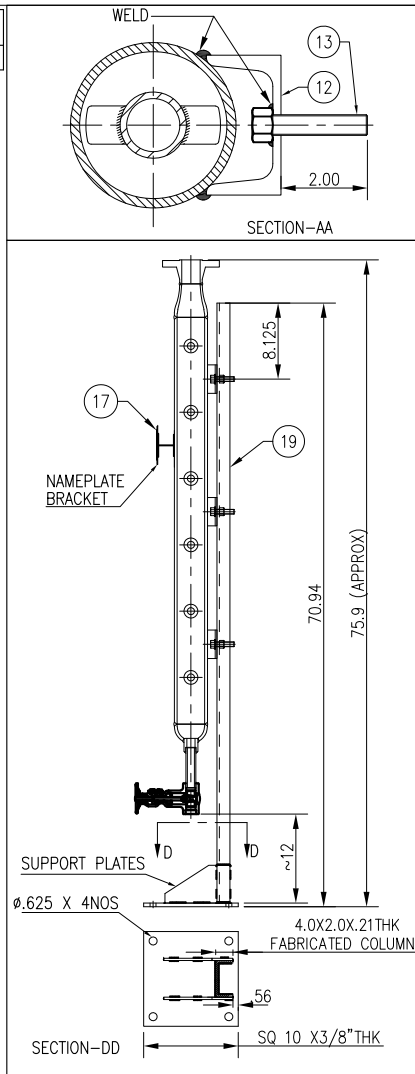
PO Sr No.	SO Sr No.	FIG NO	QTY
1	5	CM12-FF0G1P-SB14-SB15-01-W410	4+5+5+1

MANI. WEIGHT* (Kg)	STAND WEIGHT (APPROX) (Kg)
~94	~16
* WITHOUT UST TRAP.	

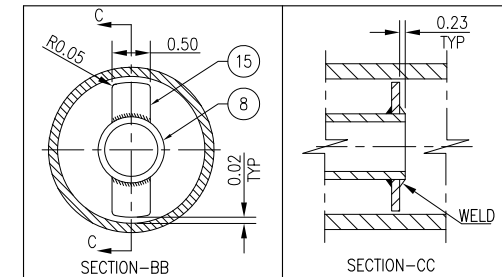


NOTE:

- *IN ACCORDANCE WITH ASME B 16.34 CL150
- FLANGED DETAILS IN ACCORDANCE WITH ASME B16.5 CL150
- SOCKET WELD & THREADED END DETAILS IN ACCORDANCE WITH ASME B16.11
- VALVE/VTCS SOCKET WELDED TO MANIFOLD & THREADED END FOR SITE CONNECTION.
- PAINTING : AS PER VVI-P-081 (INTERTHERM 228 HS-GREY)
- FOR ITEM 11: REFER GAD P410-0001477-000/GTV & FOR ITEM 9A & 9B: P410-0001477-000/VTCS



PART No	QTY.	DESCRIPTION	MATERIAL
1	1	MANIFOLD PIPE – 3.0" SCH 80	ASTM A106 GR B
2	1	WELD NECK RAISED FACE FLANGE – 2.0" CL 150 (ASME B16.5)	ASTM A105N
3	12	SOCKOLET – 3/4" CL 3000	ASTM A105N
4	12	BRANCH PIPE 3/4" SCH 80, F/F L4.74" SQUARE END (FOR VTCS SOCKET END)	ASTM A106 GR B
5	1	END CAP – 3.0" SCH 80	ASTM A234 Gr WPB
6	1	COUPLER / BOSS – 3/4" CL 3000 (SOCKET TYPE) (NOTE3)	ASTM A105N
7	1	DRAIN PIPE 3/4" SCH 80, F/F L3.31; SQUARE END FOR VALVE SOCKET END	ASTM A106 GR B
8	1	SIPHON TUBE 1.50" SCH 80 L53.5" (APPROX)	ASTM A106 GR B
9A	6	TRAP STATION (VTCS-B) 3/4" CL800 NPT(IN) X SWE(OUT) R-L (SIDE-1) NOTE4 (NON ROTATING STEM)	ASTM A351 GR. CF8M
9B	6	TRAP STATION (VTCS-B) 3/4" CL 800 NPT(IN) X SWE(OUT) L-R (SIDE-2) NOTE4 (NON ROTATING STEM)	ASTM A351 GR. CF8M
11	1	GATE VALVE – 3/4" CL800 SW (IN) X NPT (OUT) (DRAIN) (C04-2054B-02TS) NOTE4	ASTM A105N
12	3	FABRICATED BRACKET	COMMERCIAL
13	3	BOLT & NUT – 1/2" UNC	ASTM A193 GR B7/2H
15	1	STIFFENER	COMMERCIAL
17	1	NAME PLATE	COMMERCIAL
18	1	REDUCER (3.0"x2.0"-SH80)	COMMERCIAL
19	1	STAND ARRANGEMENT	COMMERCIAL
20	12	UNIVERSAL STEAM TRAP (UST300) (OPTIONAL)	ASTM A351 Gr CF8M



CCM	
MAXIMUM OPERATING PRESSURE (PSI/barg)	285 (19.6 bar)
MAXIMUM ALLOWABLE PRESSURE (PSI/barg)	*285@100°F (19.6@38°C)
MAXIMUM ALLOWABLE TEMPERATURE (°F/°C)	800°F (425°C)
HYDROSTATIC TEST PRESSURE (PSI/barg)	*430 (29.5 bar)

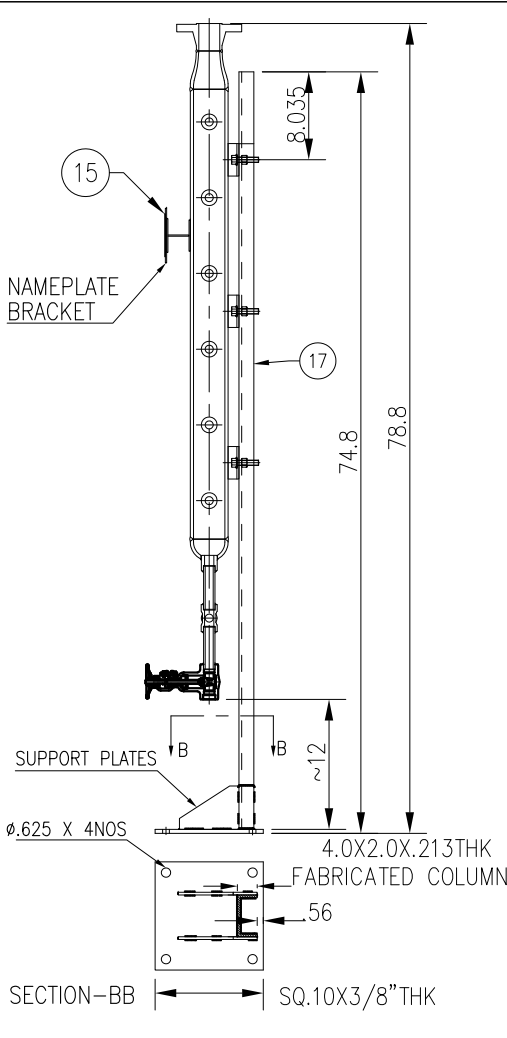
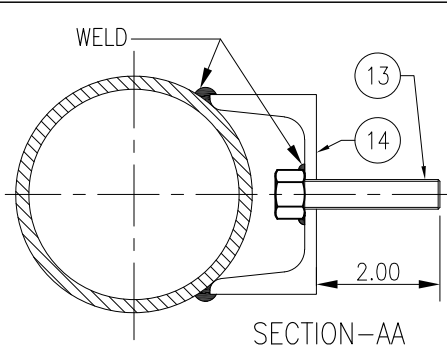
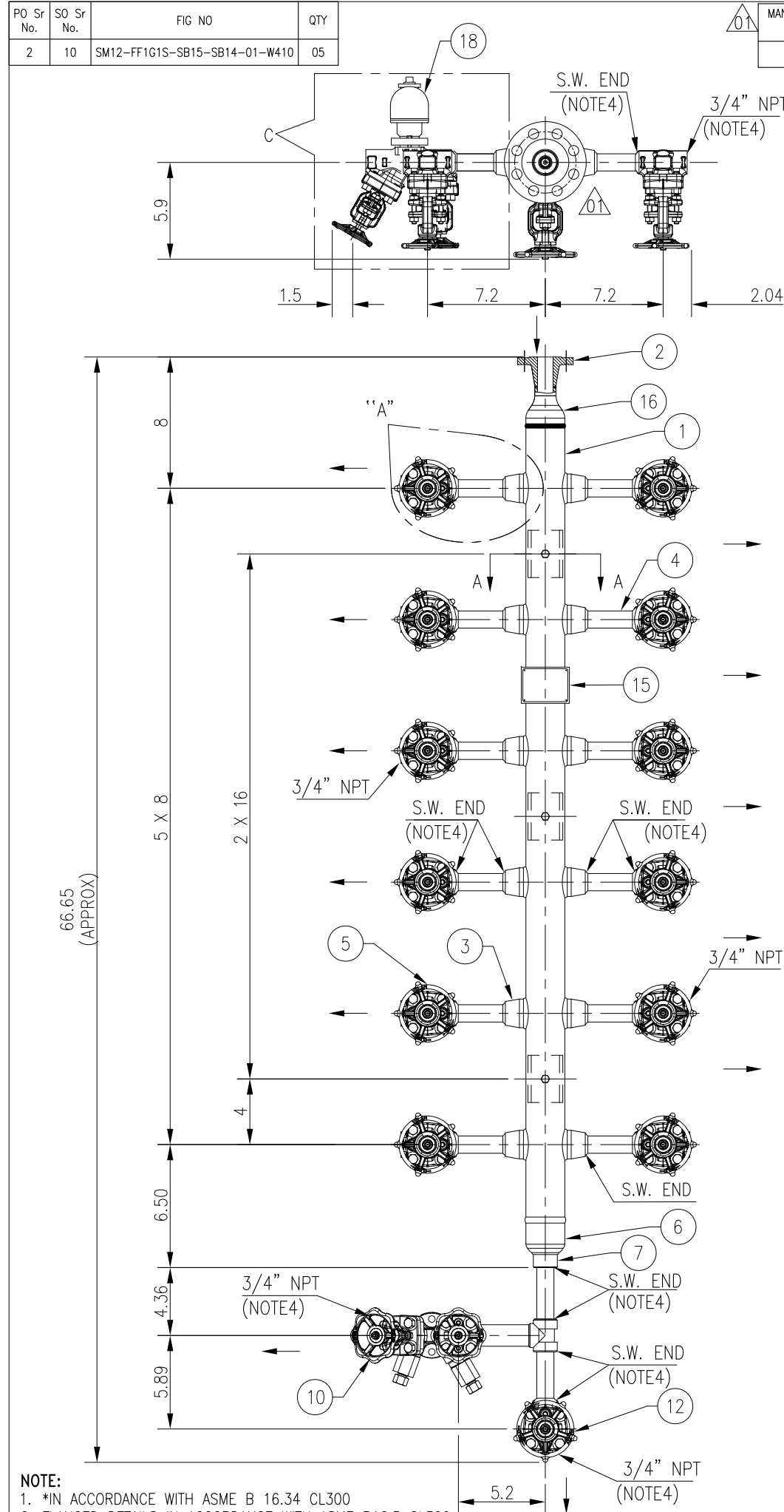
02	QTY & ORDER DETAILS UPDATED.	03.06.2024	AT	KS	-
01	WEIGHT ADDED.	24.04.2024	AT	KS	-
00	INITIAL ISSUE. [OLD DWG REF: P410-0001063-001]	11.01.2024	AT	KS	-
REV	DESCRIPTION	DATE	DWN	APVD	IR CERT
VELAN SO NO: P410-S00001477; S00001230; S00001179 & S00001063					
CUSTOMER: JAMES D. ACERS COMPANY, INC CUSTOMER PO No:76715; 11971; 11947 & 11872					
PROJECT: -					

VELAN NPS: 2.0" DN: 50		DRAWN : AT 11 JAN 2024	
		APVD : KS 11 JAN 2024	
CONDENSATE COLLECTION MANIFOLD WITH SIPHON TUBE (12 TAKE OFF) CLASS:150		IND REV CERTIFIED : KS 11 JAN 2024 DWG NO.: P410-0001477-001 SHEET 1 OF 1 REV:02	

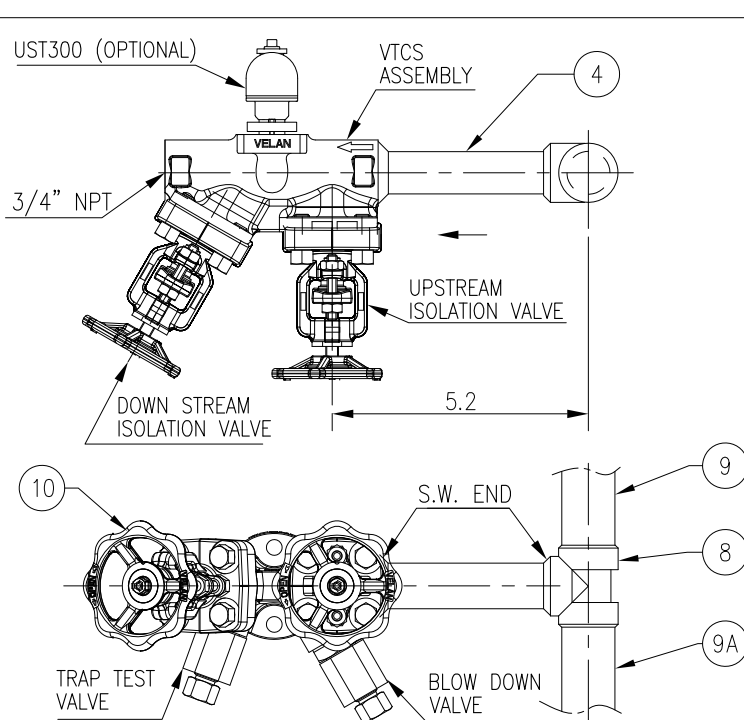
PO Sr No.	SO Sr No.	FIG NO	QTY
2	10	SM12-FF1G1S-SB15-SB14-01-W410	05

MANI. WEIGHT *(Kg)	STAND WEIGHT (APPROX) (Kg)
~65	~17

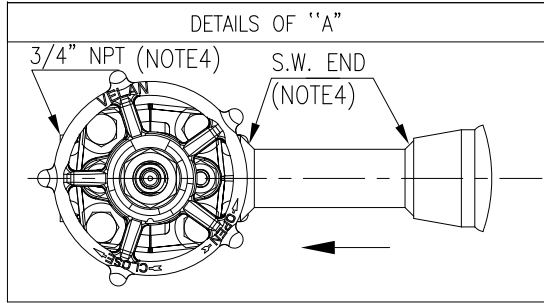
* WITHOUT UST TRAP.



DETAILS-"C": COMPACT STEAM TRAP STATION (R-L)



PART No	QTY.	DESCRIPTION	MATERIAL
1	1	MANIFOLD PIPE – 3.0" SCH 80	ASTM A106 Gr B
2	1	WNRFLANGE – 2.0" CL 300	ASTM A105N
3	12	SOCKOLET – 3/4" CL 3000	ASTM A105N
4	13	BRANCH PIPE 3/4" SCH 80, (SQUARE END)	ASTM A106 Gr B
5	12	GATE VALVE (BRANCH)– 3/4" CL 800 SW X NPT(F) (C04-2054B-02TS)	ASTM A105N
6	1	END CAP – 3.0" SCH 80	ASTM A234 Gr WPB
7	1	COUPLET / BOSS – 3/4" CL 3000 (SOCKET TYPE) (NOTE3)	ASTM A105N
8	1	TEE FITTING – 3/4" X 3/4" CL 3000 (SOCKET TYPE)	A105N / ASTM A234 Gr WPB
9	1	DRAIN PIPE 3/4" SCH 80, (SQUARE END)	ASTM A106 Gr B
9A	1	DRAIN PIPE 3/4" SCH 80, (SQUARE END)	ASTM A106 Gr B
10	1	TRAP STATION (VTCS-B) 3/4" CL 800 SWE(F) X NPT(F) R-L (VTCS-NON ROTATING STEM)	ASTM A351 GR. CF8M
12	1	GATE VALVE (DRAIN) – 3/4" CL 800 SW X NPT(F) (C04-2054B-02TS)	ASTM A105N
13	3	BOLT & NUT – 1/2"UNC	ASTM A193 GR B7& 2H
14	3	FABRICATED BRACKET	COMMERCIAL
15	1	NAMEPLATE	COMMERCIAL
16	1	REDUCER (3"x2")-SH80)	COMMERCIAL
17	1	MANIFOLD STAND	COMMERCIAL
18	1	UNIVERSAL STEAM TRAP (UST300) (OPTIONAL)	ASTM A351 Gr CF8M



	SDM
MAXIMUM OPERATING PRESSURE (PSI/barg)	#300 (21 bar)
MAXIMUM ALLOWABLE PRESSURE (PSI/barg)	*740@100°F (51.1@38°C)
MAXIMUM ALLOWABLE TEMPERATURE (°F/°C)	800°F (425°C)
HYDROSTATIC TEST PRESSURE (PSI/barg)	*1110 (77 bar)

01	FLGE TEMPLATE WAS WITH 4 HOLES IN ERROR. WEIGHT ADDED.	24.04.2024	AT	KS	–
00	INITIAL ISSUE. [OLD DWG REF: P410-0001063-002]	11.01.2024	AT	KS	–
REV	DESCRIPTION	DATE	DWN	APVD	IR CERT

VELAN SO NO: P410-SO0001477

CUSTOMER: JAMES D. ACERS COMPANY, INC

CUSTOMER PO No: 76715

PROJECT: ADVANSIX

VELAN		DRAWN : AT 11 JAN 2024	
NPS: 2.0" DN: 50		APVD : KS 11 JAN 2024	
L.P. STEAM DISTRIBUTION MANIFOLD (STEAM TOP INLET-12 TAKE OFF)		IND REV CERTIFIED: KS 11 JAN 2024 DWG NO.: P410-0001477-002 SHEET 1 OF 1	
CLASS:300		REV:01	

NOTE:
1. *IN ACCORDANCE WITH ASME B 16.34 CL300
2. FLANGED DETAILS IN ACCORDANCE WITH ASME B16.5 CL300
3. SOCKET WELD & THREADED END DETAILS IN ACCORDANCE WITH ASME B16.11
4. VALVE/VTCS SOCKET WELDED TO MANIFOLD & THREADED END FOR SITE CONNECTION.
5. PAINTING : AS PER VI-P-081 (INTERTERM 228-HS-GREY)
6. # FOR UST300 ITEM18 (OPTIONAL)
7. FOR DETAILS OF ITEM 5, 12 REFER: P410-0001477-000/GTV & FOR 10: P410-0001477-000/VTCS

NPS	REF. No	B±.06	C	D	E	øF1±.000.000	G	øF2	øH	P	V	W	~lb* max
3/4	3330-202	5.63	5.34	5.54	6.5	1.065	.5	3/4"NPT	3.0	5.28	3.56	1.69	13.4

DN	REF. No	B±1.5	C	D	E	øF1±.51.00	G	øF2	øH	P	V	W	~kg* max
20	3330-202	143	132	140	165	27.1	13	3/4"NPT	76	134	90.4	43	6.0

* WEIGHT WITH UST TRAP

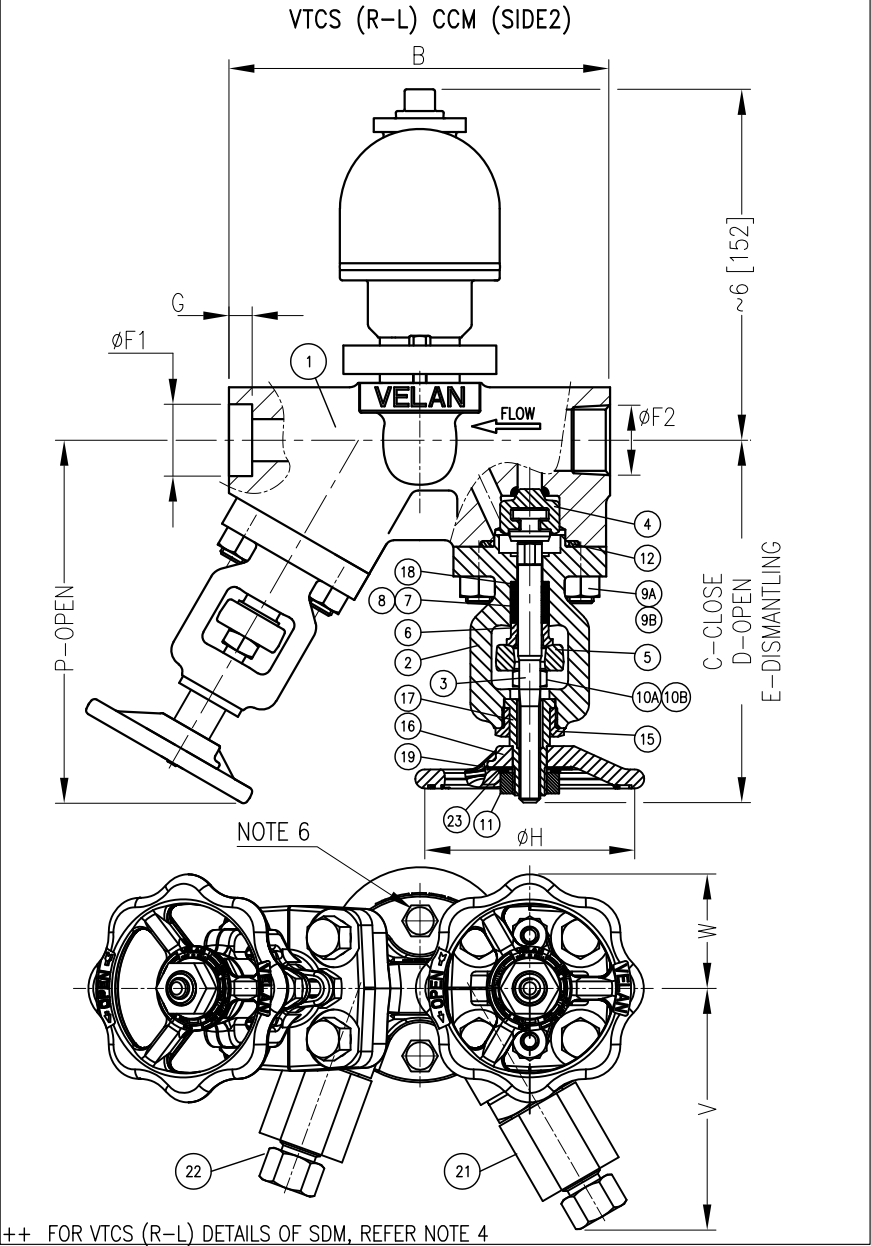
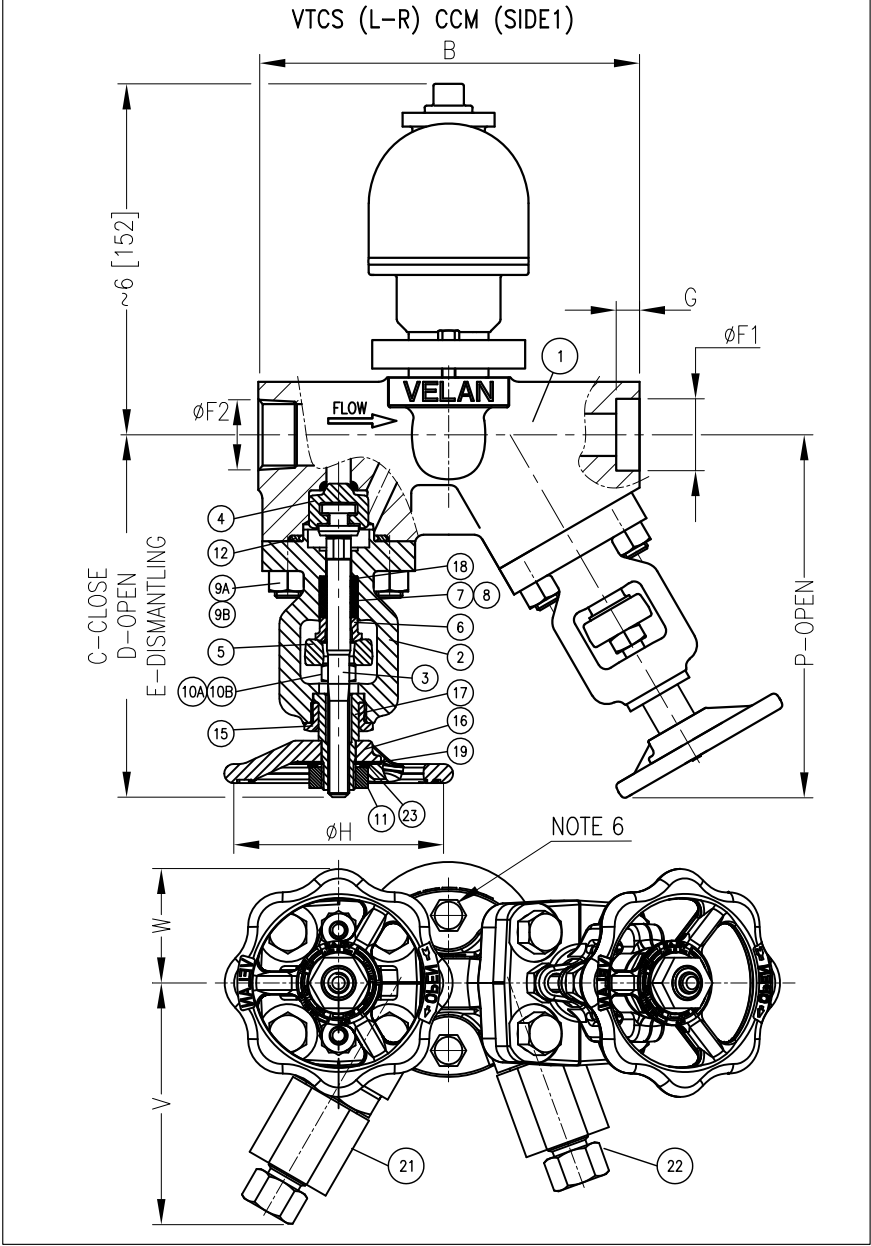
MANIFOLD TYPE	**PART No. [NOTE6]	VTCS FIGURE No.
CCM (SIDE1)	9A	C04-2464B-13MSB-W4109
CCM (SIDE2)	9B	C04-2444B-13MSB-W4109
++SDM	10	C04-2464B-13MSB-W4109

MATERIAL LIST				
PART	DESCRIPTION	QTY	MATERIAL	MATL. SPEC.
1	BODY	1	CAST STAINLESS STEEL + CoCr	ASTM A351 Gr CF8M
2	BONNET	2	FORGED STAINLESS STEEL	ASTM A182 Gr F316
3	STEM	2	STAINLESS STEEL	ASTM A479 TP 316
4	DISC	2	Co. Cr. ALLOY	AMS5387
5	PACKING FLANGE	2	FORGED STEEL	ASTM A182 Gr F304/ ASTM A351 Gr CF8
6	GLAND BUSHING	2	STEEL	ASTM A479 TP 304
7	PACKING RING	4	BRAIDED GRAPHITE	
8	PACKING RING	6	DIE FORMED FLEXIBLE GRAPHITE	
9A	STUD (BONNET BOLTING)	8	S.S.	ASTM A193 Gr B8M CL2
9B	NUT	8	S.S.	ASTM A194 Gr 8M
10A	STUD (GLAND FLANGE BOLTING)	4	S.S.	ASTM A193 Gr B8M CL2
10B	NUT	4	S.S.	ASTM A194 Gr 8M
11	HAND WHEEL NUT	2	C.S. NICKEL PLATED	ASTM A108
12	GASKET	2	S.S. GRAPHITE WITH CORROSION INHIBITOR	
13	GASKET	2	GRAPHITE	
14	GASKET	1	GRAPHITE	
15	YOKE BUSHING	2	C.S. NICKEL PLTD	ASTM A108
16	HANDWHEEL	2	MALLEABLE / DUCTILE IRON	ASTM A47
17	YOKE NUT	2	S.S. + ENP	ASTM A582 TP 416
18	JUNK RING	2	STAINLESS STEEL	ASTM A479 TP304/A240
19	NAME PLATE	2	STAINLESS STEEL	ASTM A240 TP 302/304
20	RETAINER BUSHING	1	STAINLESS STEEL	ASTM A479 TP 304
21	BLOW DOWN VALVE SUB ASSLY	1	FOR STRAINER PORT	
21A	BODY – BDV STRAINER PORT	1	STAINLESS STEEL	ASTM A479 TP 304
21B	STEM – BDV (STRAINER PORT)	1	STAINLESS STEEL+CO.Cr.	ASTM A582 TP 416
21C	SPRING PIN – BDV (STRAINER PORT)	1	SPRING STEEL	COMMERCIAL
21D	STRAINER	1	STAINLESS STEEL	ASTM A240 TP 304
22	BLOWDOWN VALVE– SUB ASSY	1	FOR STRAINER PORT	
22A	BODY– BDV (TEST PORT)	1	STAINLESS STEEL	ASTM A479 TP 304
22B	STEM – BDV (TEST PORT)	1	STAINLESS STEEL+CO.Cr.	ASTM A582 TP 416
22C	SPRING PIN – BDV (TEST PORT)	1	SPRING STEEL	COMMERCIAL
23	WASHER	2	CARBON STEEL	COMMERCIAL
*24	BIMETALLIC STEAM TRAP, MODEL:UST300	1	STAINLESS STEEL	ASTM A351 Gr CF8M

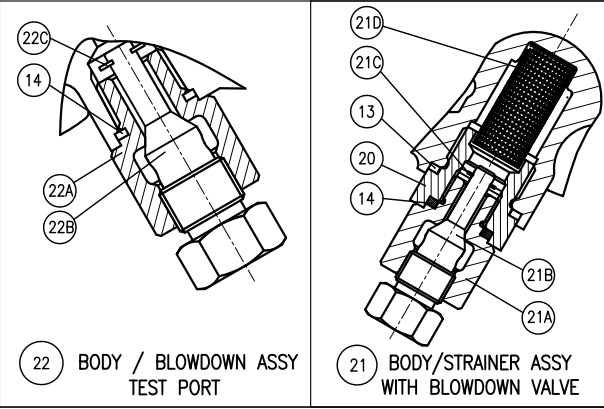
01	WEIGHT CORRECTED.	24.04.2024	AT	KS	–
00	INITIAL ISSUE.	11.01.2024	AT	KS	–
REV	DESCRIPTION	DATE	DWN	APVD	IR CERT

VELAN ORDER NO: X-410-0001477	
CUSTOMER: JAMES D. ACERS COMPANY, INC	CUSTOMER PO No: 76715
PROJECT: ADVANSIX	

VELAN NPS: 3/4" DN: 20 TRAP CONNECTOR STATION WITH UST (VTCS NON-ROTATING STEM + UST300 – COMBINATION ENDS) CLASS:800 (VTCS)	DRAWN : AT 11 JAN 2024
	APVD : KS 11 JAN 2024
	IND REV CERTIFIED : KS 11 JAN 2024
	DWG NO.: P410-0001477-000/VTCS SHEET 1 OF 1 REV:01



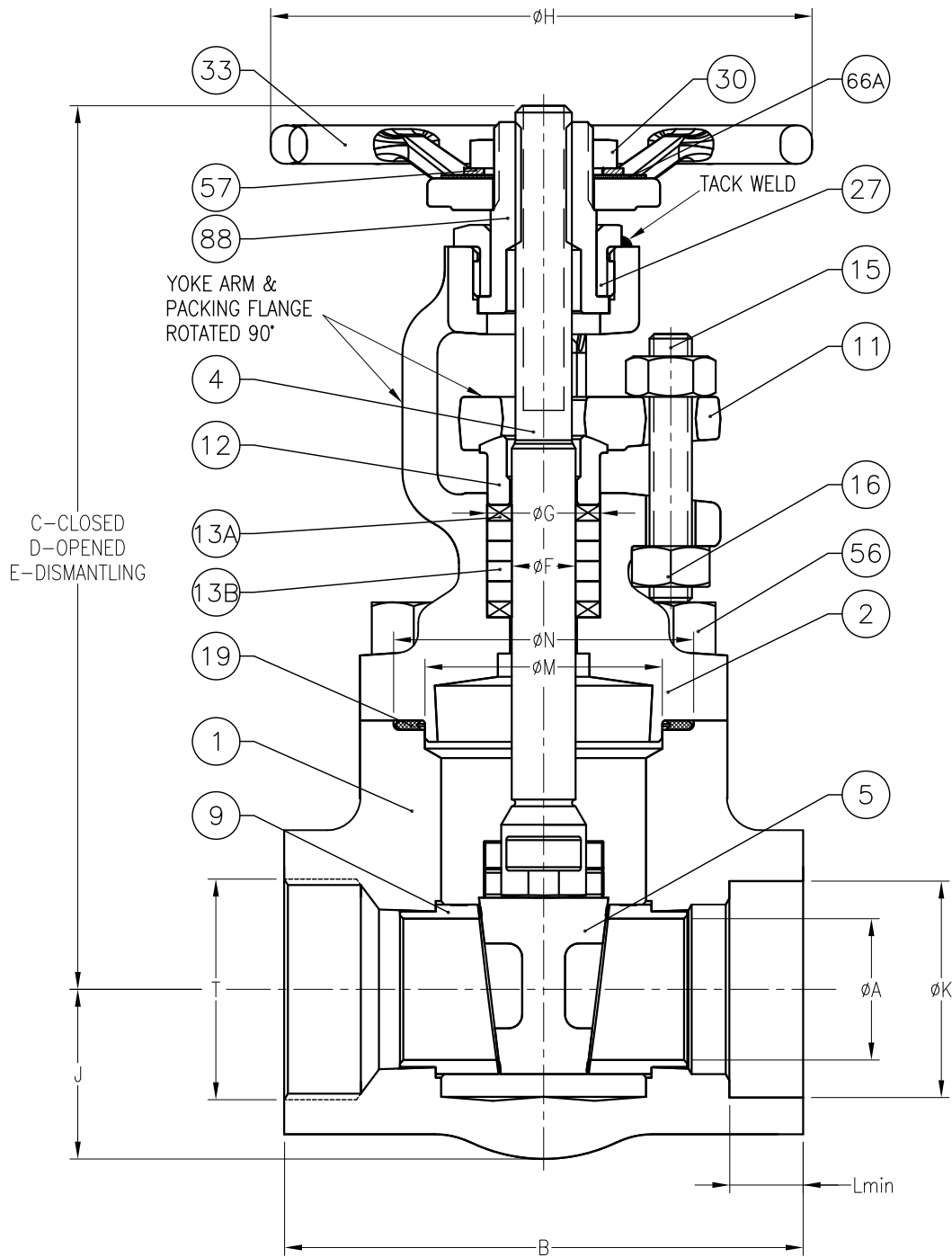
++ FOR VTCS (R-L) DETAILS OF SDM, REFER NOTE 4



- NOTES:-
1. SOCKET WELD & THREADED END DETAILS IN ACCORDANCE WITH ASME B16.11
 2. VTCS ASSEMBLY WELDED TO MANIFOLD [SOCKET END] & THREADED END FOR SITE CONNECTION.
 3. VALVE LEAKAGE AS PER API 598
 4. ++ FOR SDM, VTCS (R-L) : INLET SIDE SHALL BE SOCKET WELD
 5. * UST300 IS OPTIONAL.
 6. ** TO BE READ IN REFERENCE WITH DWG NO: FOR CCM : P410-0001477-001 & FOR SDM : P410-0001477-002

NPS	REF. No	A	B±0.06	C	D	E	F	G	H	J	K± ^{0.020} _{-.000}	L	M	N	R	T-NPT	Cv	lb _{max}
3/4	2330-137	0.50	3.25	5.9	6.8	10	0.41	0.75	3.5	0.8	1.065	0.50	1.5	2.0	2	3/4-14	14	5.3

DN	REF. No	A	B±2	C	D	E	F	G	H	J	K± ⁵¹ _{-.00}	L	M	N	R	T-NPT	Kv	kg _{max}
20	2330-137	13	83	150	173	254	10	19	89	20	27.05	13	38	51	2	3/4-14	12.0	2.4



NOTES:-

1. VALVE DESIGNED IN ACCORDANCE WITH API 602.
2. VALVE SHALL BE TESTED AS PER API 598.
3. SOCKET WELD END AT MANIFOLD SIDE & THREADED END FOR SITE CONNECTION.
4. SOCKET WELD & THREADED END DETAILS IN ACCORDANCE WITH ASME B16.11

MATERIAL LIST					
PART	DESCRIPTION	QTY	MATERIAL	MATL. SPEC.	REMARKS
1	BODY	1	A105N	ASTM A105	
2	BONNET	1	A105N	ASTM A105	
4	STEM	1	410	ASTM A479	HARDENED
5	WEDGE	1	STL 6	AMS 5387	
9	SEAT	2	410 + STL 6	ASTM A479	STL 6 FACE
11	PACKING FLANGE	1	CS	ASTM A105N	
12	GLAND BUSHING	1	416	ASTM A582	
13A	PACKING RING	2	BRAIDED GRAPHITE		
13B	PACKING RING	R	DIE FORMED FLEXIBLE GRAPHITE		
15	STUD	2	GR B6	ASTM A193	
16	NUT	4	GR 2H	ASTM A194	
19	GASKET	1	304 + GRAPHITE		COMMERCIAL
27	YOKE BUSHING	1	CS		COMMERCIAL
30	HANDWHEEL NUT	1	CS		COMMERCIAL
33	HANDWHEEL	1	DUCTILE IRON	ASTM A536	OR MALL. IRON, A47
56	CAP SCREW	4	GR B7	ASTM A193	
57	WASHER	1	CS ZINC PLD		COMMERCIAL
66A	NAME PLATE	1	302-304	ASTM A240	OR A167
88	YOKE NUT	1	416	ASTM A582	

VALVE SIZE DN(NPS)	VALVE FIGURE No.
3/4 (20)	C04-2054B-02TS

* TO BE READ IN REFERENCE WITH DWG NO:

CCM : P410-0001477-001

SDM : P410-0001477-002;

00	INITIAL ISSUE	11.01.2024	AT	KS	—
REV	DESCRIPTION	DATE	DWN	APVD	IR CERT
VELAN ORDER NO: X-410-0001477					
CUSTOMER: JAMES D. ACERS COMPANY, INC			ORDER No: 76715		
PROJECT: ADVANSIX					
		DRAWN : AT 11 JAN 2024			
		APVD : KS 11 JAN 2024			
NPS:3/4		DN:20		IND REV CERTIFIED : KS 11 JAN 2024	
FORGED STEEL GATE VALVE (BOLTED BONNET – SOCKET X THREADED WELD ENDS)		DWG NO.:			
		P410-0001477-000/GTV			
		SHEET 1 OF 1			
CLASS:800		REV:00			