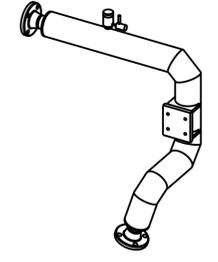


NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER, OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

EAR 99 - NO LICENSE REQUIRED
THE INFORMATION CONTAINED IN THIS DOCUMENT IS TECHNICAL IN CONTENT, BUT NOT TECHNICAL DATA AS DEFINED BY THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR) OR THE EXPORT ADMINISTRATION REGULATIONS (EAR), AND THEREFORE IS EAR 99 NLR, NO EXPORT LICENSE REQUIRED. (GENERAL PROHIBITION SIX (EMBARGO) APPLIES TO ALL ITEMS SUBJECT TO THE EAR, I.E. ITEMS ON THE CCL AND WITHIN EAR 99 NLR). YOU MAY NOT MAKE AN EXPORT OR RE-EXPORT CONTRARY TO THE PROVISIONS OF PART 768 (EMBARGOS AND OTHER SPECIAL CONTROLS) OF THE EAR AND 22 CFR PART 126.1 OF THE ITAR.
REFERENCE EODR 131981
NASA KSC EXPORT CONTROL OFFICE - 321-867-9209

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL

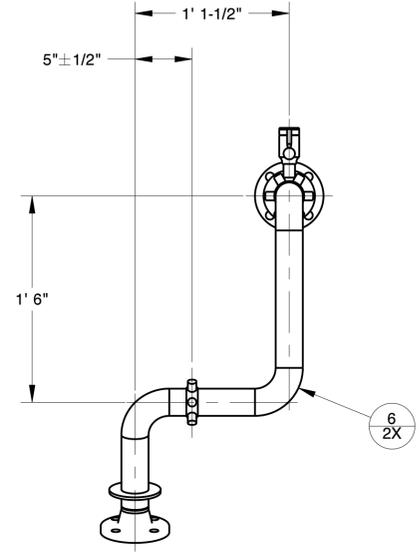
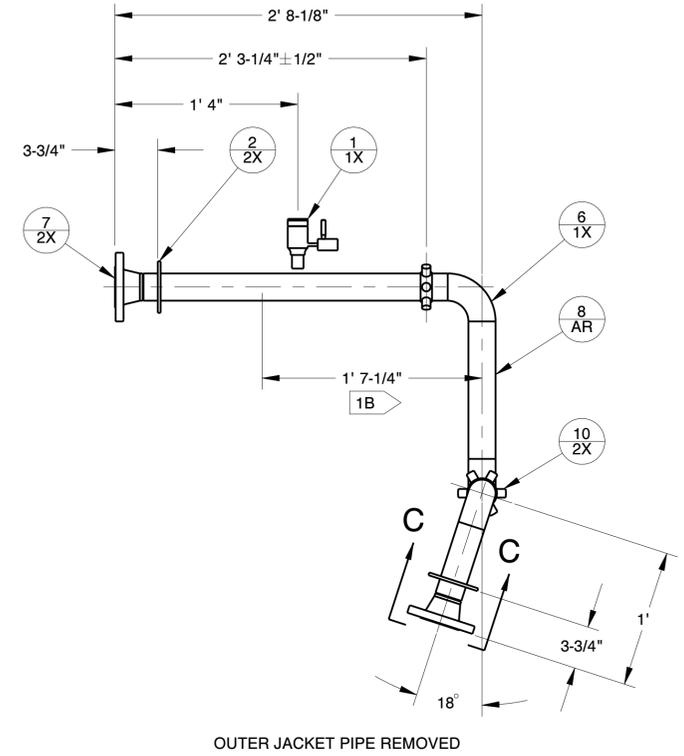
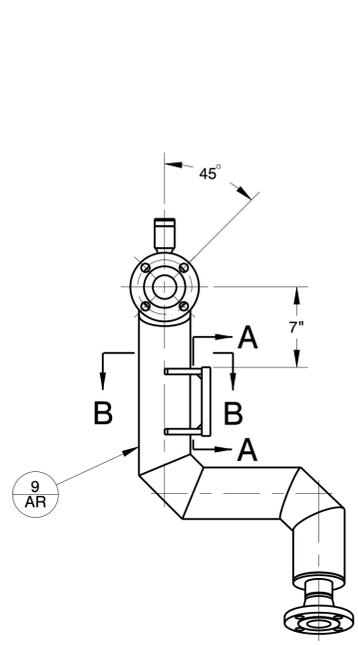


ISOMETRIC
SCALE .063

NOTES:

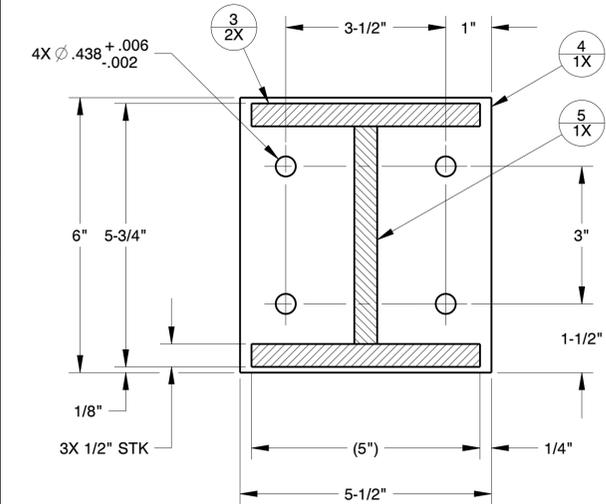
GENERAL

- 1A. THIS DRAWING PROVIDES THE PHYSICAL DIMENSIONS AND PARTS LIST FOR PIPE SPOOL ASSEMBLY. REFER TO PROCUREMENT SPECIFICATION K0000131582-SPC FOR TECHNICAL, FABRICATION, TEST AND INSPECTION REQUIREMENTS.
- 1B. NOTED DIMENSION INDICATES CENTER LINE LOCATION FOR EXTERNAL SUPPORTS OF PIPE SPOOL ASSEMBLY. SUPPORT CONTACTS PIPE SPOOL FOR 5.0 INCHES ON EACH SIDE OF NOTED DIMENSION. WELDS ON EXTERNAL PIPE (EXCEPT PIPE SEAM WELD IF APPLICABLE) SHALL BE AVOIDED IN THIS AREA.
- 1C. PIPE SPOOL REFERENCE DESIGNATOR NUMBER IS 5075.
- 1D. MITER BENDS ON EXTERNAL JACKET PIPE REQUIRE TWO MITERED CUTS.

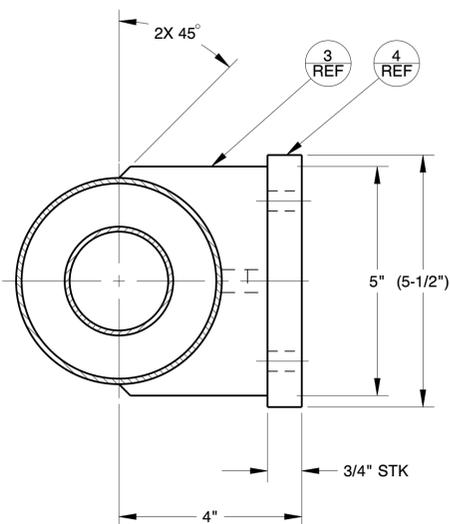


OUTER JACKET PIPE REMOVED

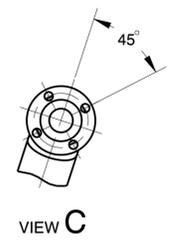
OUTER JACKET PIPE REMOVED



SECTION A-A
SCALE .500



SECTION B-B
SCALE .500



VIEW C

QTY	ZONE	FIND NO OR ITEM NO	MFR CODE	PART OR STOCK NO	DESCRIPTION
2	10	22264	KT00386-02D0004D00	CRYOGENIC INTERNAL SUPPORT SPACER 2X4	
AR	9	22264	KT00378-04D00010S4	PIPE	
AR	8	22264	KT00378-02D00010S4	PIPE	
2	7	22264	KT00120-150SS02D00	FLANGE, WELD NECK, B16.5, CLASS 150	
3	6	22264	KT00104-10SS02D00	ELBOW, 90 DEG, LONG, B16.9, SCHED 10	
1	5	22264	K0000068035-P004	PLATE	
1	4	22264	K0000068035-P003	PLATE	
2	3	22264	K0000068035-P002	PLATE	
2	2	22264	K0000068035-P001	PLATE	
1	1	22264	79K14672-3	ASSEMBLY, VACUUM VALVE	

PARTS LIST

PROCUREMENT CONTROL DRAWING

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED ONLY BY THE DESIGN ACTIVITY.			UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES. INTERPRET DIM AND TOL PER ASME Y14.5-2009. TOLERANCES ON: FRACTIONS ± 1/16 DECIMALS 1 PL ± .1 2 PL ± .03 3 PL ± .010
SOFTWARE CREO PARAMETRIC 2.0			ORIGINAL DATE OF DRAWING (YYYY/MM/DD) 2013/08/16
FILENAME K0000068035D			DRAFTSMAN S. A. BRYANT
MATERIAL NOTED	K0000065439	SLS ML	CHECKER J. A. STAGI
HEAT TREATMENT NONE	NEXT ASSY	USED ON	ENGINEER J. R. WILLIAMS
FINAL PROTECTIVE FINISH NONE			CHECKER L. C. KAYLOR
			ENGINEER V. J. WARD
			ENGINEER S. A. SHELLEY
			ENGINEER C. T. O'CONNOR
			SUBMITTED T. O. ADAMS
			APPROVED A. C. LITTLEFIELD

JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA			
PIPE SPOOL 2 X 4, VACUUM JACKETED, LIQUID OXYGEN VENT			
SIZE D	CAGE CODE 22264	DWG NO K000068035	REV -
SCALE .125	UNIT WEIGHT 66.76	SHEET 1 OF	1