

REFERENCE DRAWINGS		
NO.	DRAWING TITLE	DRAWING NUMBER
1	GENERAL ARRANGEMENT PLAN	6094-6994-01
2	SANITARY FRESH WATER SYSTEM	6094-63000-02
3	BILGE DRAINAGE AND DEWATERING SYSTEM	6094-62000-01
4	COOLING WATER SYSTEM	6094-25000-01
5	BLACK, GREY AND SANITARY FLUSHING SYSTEM	6094-8994-02
6	WATER FIRE EXTINGUISHING SYSTEM	6094-55000-03

PIPE DIMENSIONS					
PIPE CODE	PIPE SIZE	STANDARD	MATERIAL	REMARKS	JOINTS
36	12 x 2.0	DN2391	STEEL	-	COMPRESSION FITTINGS
100	15 x 2.0	DN2391	STEEL	-	
150	18 x 2.0	DN2391	STEEL	-	
200	22 x 2.0	DN2391	STEEL	-	
250	28 x 2.0	DN2391	STEEL	-	
320	35 x 2.0	DN2391	STEEL	-	
400	42 x 2.0	DN2391	STEEL	-	
15	18 x 2.0	DN2462	ST STEEL	-	
20	22 x 2.0	DN2462	ST STEEL	-	
20	26.9 x 6.3	DN2448	STEEL	-	
25	33.7 x 8.0	DN2448	STEEL	-	FLANGED
NOTE- WALL THICKNESS ACC. TO: LRS for Special Out-Part 15, Chapter 1, Section 5					



VALVE MATERIALS							
NO	NP	TEMP	VALVE TYPE	MATERIAL			
				BODY	TRM		L.G. CERT.
8	10	50	PRESSURE GAUGE COCK	BRASS	BRASS		NO
8	10	50	NEEDLE VALVE	ST. STEEL	ST. STEEL STEM AND NEEDLE TP		NO
8	25	50	BALL VALVE	BRASS	BRASS		NO
16	16	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO
15	25	50	BALL VALVE	BRASS	BRASS		NO
15	16	50	BALL VALVE	ST. STEEL	BRASS		NO
15	40	50	CHECK VALVE	ST. STEEL	ST. STEEL		NO
15	16	50	GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO
15	16	50	GLOBE VALVE	ST. STEEL	ST. STEEL STEM, ST. STEEL DISC		NO
15	40	50	GLOBE VALVE-VALVE PATTERN	ST. STEEL	ST. STEEL STEM, ST. STEEL DISC		NO
10	10	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO
15	1016	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		YES
10	40	50	NEEDLE VALVE	ST. STEEL	ST. STEEL STEM AND NEEDLE TP		NO
303	-	50	SAFETY VALVE	Bronze	BRASS		NO
20	16	50	GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO
303	-	50	SAFETY VALVE	Bronze	BRASS		NO
25	1016	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		YES
25	40	50	CHECK VALVE	ST. STEEL	ST. STEEL		NO
25	40	50	GLOBE VALVE-VALVE PATTERN	ST. STEEL	ST. STEEL STEM, ST. STEEL DISC		NO
40	40	50	NEEDLE VALVE	BRASS	BRASS		NO
32	40	50	GLOBE VALVE-VALVE PATTERN	ST. STEEL	ST. STEEL STEM, ST. STEEL DISC		NO
32	16	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO
324	-	50	SAFETY VALVE	BRASS	BRASS		NO
40	40	50	CHECK VALVE	ST. STEEL	ST. STEEL		NO
40	16	50	SDNR GLOBE VALVE	Bronze	BRASS STEM, BRONZE DISC		NO

EQUIPMENT TABLE			
ITEM	DESCRIPTION	CHARACTERISTICS	REMARKS
E551101	STARTING AIR COMPRESSOR	Q=abt 13 m <sup>3</sup> /min, H=30 bar, P=3.1 kW	FLEXIBLE FASTENING
E551102	STARTING AIR COMPRESSOR		
E551103	STARTING AIR RECEIVER	V=0.3 m <sup>3</sup> , 30 bar	HORIZONTAL TYPE
E551104	STARTING AIR RECEIVER	V=0.3 m <sup>3</sup> , 30 bar	HORIZONTAL TYPE
E551105	STARTING AIR RECEIVER	V=0.125 m <sup>3</sup> , 30 bar	VERTICAL TYPE
E551106	COMPRESSED AIR HOSE	L=abt 15 m	-
E551111	COMPRESSED AIR HOSE	L=abt 15 m	-
E551113	COMPRESSED AIR HOSE	L=abt 15 m	-
1.0225	ELECTROMAGNETIC STARTING VALVE	ND 40 (M52x1.5)	MTU SUPPLY
E551114	SRV-100 - PILOT VALVE		DOOSE SUPPLY
E551116	COMPRESSED AIR HOSE	L=abt 3 m	
E551117	COMPRESSED AIR HOSE	L=abt 3 m	
E551118	HANDHELD INFLATORGUN	SUPPLIED WITH GAUGE AND FLEXIBLE HOSE	

TESTS TABLE			
ITEM	DESIGN PRESSURE (bar)	IN WORKSHOP (bar)	ON BOARD (bar)
SUPPLY & STARTING PIPELINE	33.0	49.5	49.5
WORKING PIPELINE - 7 bar	7.7	11.55	11.55
WORKING PIPELINE - 2 bar	2.2	3.3	3.3
DRAIN PIPELINE	2.2	-	WORKING CONDITION
VENTING PIPELINE	2.2	-	WORKING CONDITION
ME SUPPLY - 10 bar	10	15	15
DG SUPPLY - 10.3 bar	11.33	17	17
EDG SUPPLY - 8.2 bar	9	13.5	13.5

MTU CONNECTIONS			
ITEM	DESCRIPTION	SIZE	REMARKS
17.002	Connection compressed air starting engine	ND 40	-

CCGS PRIVATE ROBERTSON V.C

Rev	29/04/21	As Affixed	TK	FP	BF
Rev	Date	Description	Perform	Check	Appr.
Client:		Title:			
CANADIAN COAST GUARD		COMPRESSED AIR SYSTEM			
					
					
P.O. Box 9110, 3009 Bannington Street, Hamilton, N.Y.		Scale: HTS Size: A0 Project No: 6094			
Tel: 905-881-2200 Fax: 905-881-2201		Drawn by: Checked by: Dwg. Date: 22/06/21			
Contract No: F7410-10001002N2		Rev: AF6094-55-100-01			
Project No: 6094		Sheet: 1 of 1			