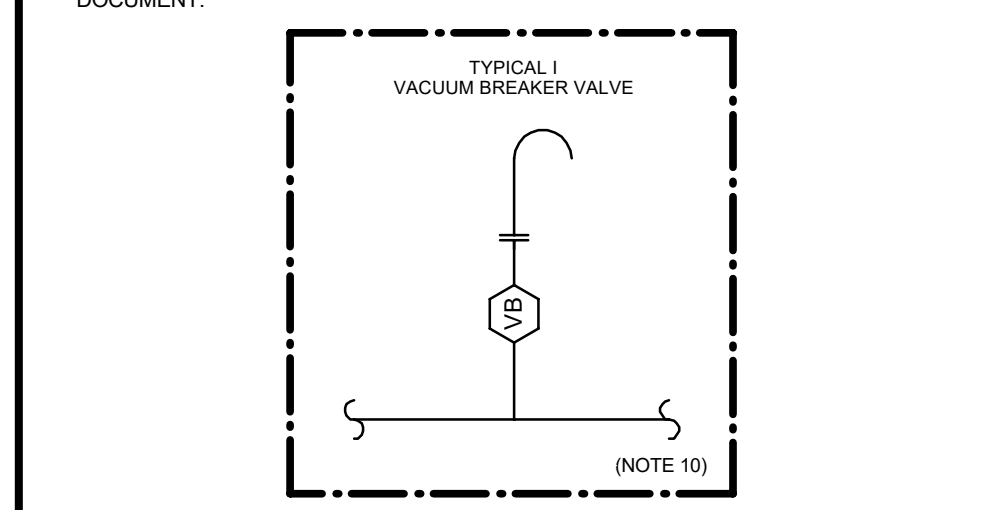


REFERENCE DOCUMENTS

- LET-3000-00-0000-944-P4X-002-0 - SYMBOLS FOR PRODUCTION UNITS DESIGN
- LET-3010-2Q-5423-944-P4X-001-0 - FIRE WATER SUPPLY SYSTEM
- LET-3010-2Q-5423-944-P4X-001-0 - WATER/FOAM FIRE-FIGHTING SYSTEMS
- LET-3010-2Q-5423-944-P4X-001-0 - FOAM DEMAND
- LET-3010-2Q-1200-944-P4X-001-0 - GENERAL NOTES
- LET-3010-2Q-1200-944-P4X-001-0 - GENERAL ARRANGEMENT
- LET-3010-2Q-5423-944-P4X-001-0 - JFD - FIRE WATER SUPPLY SYSTEM
- LET-3010-2Q-5423-944-P4X-001-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM SUPPLY SYSTEM - TOPSIDES
- LET-3010-2Q-5423-944-P4X-002-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM DISTRIBUTION - TOPSIDES
- LET-3010-2Q-5423-944-P4X-002-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM DISTRIBUTION - COASTING AREAS
- LET-3010-2Q-5423-944-P4X-002-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM SUPPLY SYSTEM - HELDECK
- LET-3010-2Q-5423-944-P4X-003-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM SUPPLY SYSTEM - HULL
- LET-3010-2Q-5423-944-P4X-006-0 - PIPING AND INSTRUMENT DIAGRAM - FOAM DISTRIBUTION - HULL

GENERAL NOTES

1. MANUAL ISOLATION VALVES ON DISTRIBUTION LINE TO CONSUMERS SHALL BE INSTALLED CLOSE TO THE HEADER BRANCH-OFF DURING DETAILING DESIGN.
2. THE BRANCH LINES THAT SUPPLY FIRE WATER TO THE CONSUMERS LOCATED AT HIGH POINTS SHALL BE PROVIDED WITH DEVICES IN ORDER TO AVOID WATER HAMMER WHEN THE FIRE PUMPS START.
3. DURING THE DETAILING DESIGN, INTERNATIONAL SHORE CONNECTIONS SHALL BE FORESEEN FOR FIRE WATER SUPPLY ACCORDING TO SOLAS CHAPTER 10 REGULATION 10 AND FSS CODE. ONE LOCATED AT PORTSIDE AND ANOTHER AT STARBOARD.
4. DURING THE DETAILING DESIGN, LOW POINT BRAINS SHALL BE FORESEEN AT THE MAIN RING, TRAVELING LINES, AND THE BRANCH LINES. THE BRAINS/FIRES SHALL NOT BE CONNECTED TO ANY OTHER SYSTEM.
5. ALL FIRE RING BLOCK VALVES, INCLUDING THOSE AT THE BRANCH LINES, SHALL BE PROPERLY IDENTIFIED WITH TAG SO THAT THEY ARE EASILY VISUALIZED.
6. THE MAIN FIRE BLOCK VALVES SHALL BE MOTORIZED AND ALSO MANUALLY OPERATED. THE ESTIMATED POWER OF THE MOTORIZED VALVES IS 800 W AND SHALL BE CONSIDERED IN THE DETAILING DESIGN.
7. THE BLOCK VALVES INSTALLED AT THE BRANCH LINES SHALL HAVE EASY ACCESS TO GUARANTEE MANUAL OPERATION, WHICH SHALL BE DONE AT THE SAME LEVEL OF THE UNIT FOR ALL VALVES. THOSE THAT CANNOT BE OPERATED MANUALLY DUE TO THE DIFFICULTY OF ACCESS, SHALL BE ALSO MOTORIZED.
8. DURING THE DETAILING DESIGN, THE QUANTITY AND LOCATION OF THESE VALVES SHALL BE OPTIMIZED.
9. THE FIRE WATER MAIN RING SHALL HAVE THE EXPANSION AND PIPING MOVEMENT PERFORMED BY LOOPS. EXPANSION LOOP QUANTITY AND LOCATION TO BE SPACED SHALL BE DEFINED IN THE DETAILED ENGINEERING DESIGN, ACCORDING TO PIPING STRESS ANALYSIS.
10. VACUUM BREAKER VALVE SHALL BE PROVIDED AT THE HIGH POINTS OF THE FIRE FIGHTING NETWORK. SEE TYPICAL. THE QUANTITY AND EXACT LOCATIONS SHALL BE DEFINED BY THE DETAILING DESIGN AND FOLLOWED, AT LEAST, AS INDICATED IN THIS DOCUMENT.



REV	DATE	DESCR	BY	CHK	APP	100
1		ORIGINAL ISSUE				

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AREA	MARLIM LESTE E SUL
TITLE	PIPING AND INSTRUMENT DIAGRAM FIRE WATER DISTRIBUTION - FIRE WATER RING MAIN
DESIGN	ESUP
SCALE	NO SCALE
DRAWING	DRAWING
CHECK	LSX6
APPROV	EKSU
INTERNAL	
DATE	Dec27/23
SHEET	01 of 01
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