



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 47034

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Own Experience

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SUPERSEDES INVENTORY No.

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TECHNICAL SPECIFICATION OF NON-RETURN VALVES FOR LUBE OIL AND FIRE RESISTANT FLUID VAPOUR EXHAUST LINE.

1.0 SCOPE

This specification covers design, manufacturing assembly, testing and supply of Non-return valves as per sketch 1.0 to be installed in turbine lube oil and FRF vapour exhaust line with identification number as tabulated below:

SL. NO.	Identification Number.	Size No	Flow medium	Working Para-meters	End connection
1	MAV82AA001	125	Sorvo- -prime 46 of 10C	Pressure 2 kg/cm ² abs. Temp. 70°C	To be fitted between flanges as per DIN 2633
2	MAV82AA002	125			
3	MAX82AA002	80	Fire resistant Fluid (Phosphoric ester)		
4	MAX82AA003	80			

2.0 FUNCTION

These valves are to be installed on main oil tank and FRF tank after each vapour exhausters to prevent back flow of vapours in case one vapour exhauster is under maintenance.

SIGN & DATE	AGREED:	NAME		SIGN. & DATE								
		TSX	B.M. BANSAL	DRAWN								
15/5/04		QAX	H.C. UPADHYA	WORKED	A. K. JAIN							
		DEPT	NAME	CHECKED	K.C. SACHAN							
				SUPERVISED	S.S. KULKARNI							
P-55/5	REVISION: 02	Distribution Qty		Approved: <i>[Signature]</i>								
	<table border="1"> <tr> <th>Name</th> <th>Sign</th> <th>Date</th> </tr> <tr> <td>S.K. Gupta</td> <td><i>[Signature]</i></td> <td>12.2.08</td> </tr> </table>	Name	Sign	Date	S.K. Gupta	<i>[Signature]</i>	12.2.08	<table border="1"> <tr> <td>ENG. DEV. MANAGER</td> <td>ST</td> </tr> <tr> <td>8.20</td> <td></td> </tr> </table>		ENG. DEV. MANAGER	ST	8.20
Name	Sign	Date										
S.K. Gupta	<i>[Signature]</i>	12.2.08										
ENG. DEV. MANAGER	ST											
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		Prepared	Issued	Date								
		STE	STE (TL) HARDWARE	26.3.84								



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INVENTORY No. P-5515

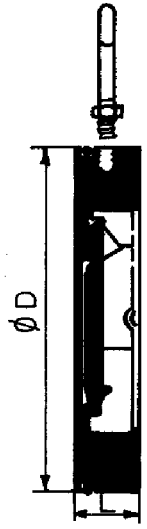
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- 3.0 **RATING** : Nominal pressure rating = 16 kg/cm²
- 4.0 **MATERIAL** *flap of Aluminium* ^{other}
Body of Carbonsteel, Material of ^{other}internals to be selected by supplier and to be informed to purchaser for their comments, if any. Also refer clause 4.0 of ST 47025.
All gaskets shall be of VITON.
- 2.0 **END CONNECTIONS**
Valves are to be fitted between flanges as per DIN 2633.
- 6.0 **SPECIAL FEATURE:**
Maximum permissible pressure drop across the valve at sl.Nos. 1 & 2 with 0.11 m³/sec flow of air shall be 60 mmwc and across the valve at sl.Nos. 3 & 4 with 0.02 m³/sec flow of air shall be 20 mmwc.
- 7.0 For completion of this specification, read this specification alongwith general purchase specification of valves ST 47025.



SKETCH-1

NOM. DIA.	DIM. IN MM		WT. APPX. IN KG.
MM.	L	D	K.G.
80	24	134	1.80
100	27	154	2.50

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8.0 In continuation to clause 15.0 of Specification ST 47025, the min. test requirement envisaged by BHEL are as follows:-

8.1 Testing of Materials: The material of components of valve such as body, ~~disc~~ shall be tested as per relevant specification for its chemical composition and mechanical properties. For remaining components compliance certificate shall be furnished.

8.2 DPT on seat.

8.3 Functional test. *smooth movement of the flap.* b

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