



**PRODUCT STANDARD  
STEAM TURBINE ENGINEERING**

ST 47027

PAGE 1 OF 2

Own Experience

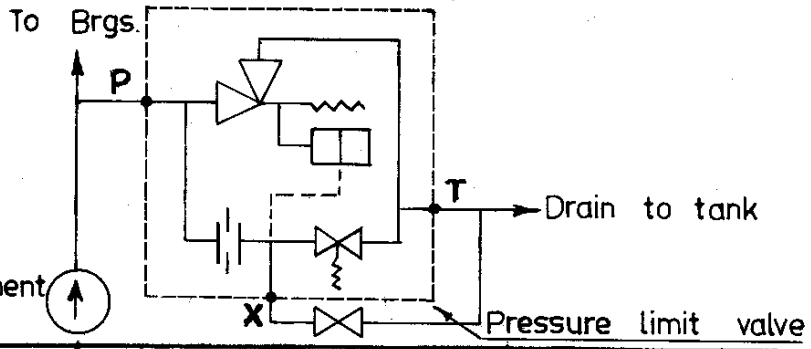
TECHNICAL SPECIFICATION OF PRESSURE LIMIT VALVE

**1.0 SCOPE:** This Specification covers design manufacturing assembly, testing and supply of pressure limit valve alongwith adapting flanges as per details given below:

Var.	Identifi- cation No.	Design Parameter	Medium of flow	Set Pr.	Line flow
01	MAV35AA001	225 bar	Servoprime 46 of IOC KIM Viscosity 25 cs at 50°C and density 860 Kg/m <sup>3</sup> . or <b>equivalent.</b>	120 bar	1.26 Lit/sec
02	-"-	-"-		130 bar	1.90 Lit/sec.
03	-"-	-"-		189 bar	1.68 Lit/sec
04	-"-	-"-		175 bar	0.91 Lit/sec
05	-"-	-"-		182 bar	2.25 Lit/sec.
06	-"-	-"-		180 bar	1.30 Lit/sec

**2.0 FUNCTION :** The valve is employed to maintain a constant pressure in Jacking oil line to bearings. The valve should be a pilot operated relief valve. The function is explained hereunder with the help of a diagram.

The valve shall have three connection one for pressure oil inlet (P), one for draining excess oil to main oil tank and one for quick pressure dropping (X). It should be possible to set the pressure at site.



**SUPERSEDES OLD SHEET UNDER SAME PAGE NO. STE-87-131**

COPYRIGHT AND CONFIDENTIAL  
The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.

AGREED.	NAME	SIGN. & DATE
	DRAWN	M. SINGH 13-12-83
TSX	B.M. BANSAI	R. PANJA 13-12-83
QAX	S.S. Chauhan	A.B. GUPTA 13-12-83
DEPTT	NAME	SIGN. & DATE
	SUPERVISED	K.C. SACHAN 19-3-84

Revision : 03	Distribution	Qty.	Approved :	ST
Name	SIGN	Date	<b>ENGG. DEV. MANAGER</b>	8-2
S.R. Gupta	[Signature]	12-2-08		
Reaffirmed Feb., 2008			Prepared STE	Issued STE (TL) HARDWAR
				Date 26.3.84

INVENTORY NO. P-5520  
SIGN & DATE B. S. 13/7/87



PRODUCT STANDARD  
STEAM TURBINE ENGINEERING

ST 47027

PAGE 2 OF 2

SIGN & DATE

SUPERSEDES INVENTORY No.

COPYRIGHT AND CONFIDENTIAL  
The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.

SIGN & DATE

INVENTORY No.

15/5/84  
P-5520

3.0 RATING :- Rating of the valve to be decided by supplier as per working parameters, mentioned in clause 1.0 + clause 2.0 of Specification ST47025.

4.0 MATERIAL :- Material to be selected by supplier and to be informed to purchaser for their comments, if any. Also refer clause 4.0 of ST 47025.

5.0 END CONNECTION: P & T <sup>shall be of</sup> Weld neck type suitable to weld with pipe  $\varnothing$  33.7 x 4.0. and Connection x  $R\frac{1}{4}$ ".

6.0 For completion of this specification, read this specification alongwith general purchase specification of valves ST 47025.

7.0 In continuation to clause 15.0 of Spencification ST47025, the minimum test requirements envisaged by follows:-

7.1 Test  
The material of components of valve such as body bonnet stem and fastners shall be tested as per relevant specification for the chemical composition and mechanical properties. For remaining components compliance certificates shall be furnished.

7.2 RT/UT on all pressure retaining parts. DPT on Steam, seat and weld ends.

7.3 Colour matching of valve seat and plug in case of metal to metal contact.

7.4 Functional test including 3 poppings at set pressure.

REVISION: 03

WORKED BY	A. K. JAIN	<i>A.K. Jain</i>	24.3.84
CHECKED BY	K.C. SACHAN	<i>K.C. Sachan</i>	24.3.84