

				<u>PNEUMATIC GLOBE VALVE</u> LIST OF DOCUMENTS AND DRAWINGS MAT. CODE – W90313726159		4-13137-95003																			
						Rev.01																			
						Page 1 of 1																			
		A. <u>SCOPE OF THE DOCUMENT:</u> This document lists down the drawings and documents to be followed for executing the order of one no. (1 no.) of Pneumatic Globe valve(DN40) having TAG No. MAC01AA051.																							
		B. <u>LIST OF DOCUMENTS AND DRAWINGS:</u> <table border="1"> <thead> <tr> <th>Sl.no.</th> <th>Item description</th> <th>Drg./Doc. no</th> <th>Rev/ Index</th> <th>No. of sheets</th> <th>Quantity of item</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Technical Purchase Specification: Valves</td> <td>413137U8103</td> <td>01</td> <td>2</td> <td></td> </tr> <tr> <td>2</td> <td>Technical Requirements (Pneumatic Globe Valve – Actuator & Accessories)</td> <td>41812870012</td> <td>05</td> <td>1</td> <td></td> </tr> </tbody> </table>						Sl.no.	Item description	Drg./Doc. no	Rev/ Index	No. of sheets	Quantity of item	1	Technical Purchase Specification: Valves	413137U8103	01	2		2	Technical Requirements (Pneumatic Globe Valve – Actuator & Accessories)	41812870012	05	1	
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SIGN & DATE	SUNIL 12.02.19					NAME	SIGNATURE & DATE																		
				WORKED BY	ANUPAM		-Sd- 02.09.2011																		
REV. NO.	01	CIE	SASWATI	21.04.17	CHECKED BY	S K GUPTA	-Sd- 02.09.2011																		
		AGREED DEPTT.	NAME	DATE & SIGNATURE	APPROVED BY	S C AGARWAL	-Sd- 02.09.2011																		



PNEUMATIC GLOBE VALVE

413137U8103

REV-01

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1-Scope:

This Technical Purchasing Specification covers supply of Pneumatic Glove valve with limit switch for 100% open indication.

The requirements of this specification are valid as far as no other requirements are given in the enquiry.

2-Technical Data and Design:

The criteria, e.g. fluid, pressure, temperature, material of the casing, etc., are as below.

Valve Type	2/2-way Coaxial Valve , Externally Control
Valve Size	DN40
Design Pressure	64 bar
Design Temperature	65°C
End Connection	Flange RF 1.5" ANSI B16.5 CLASS 300
Function	Valve Normally Closed
Pressure range of control air	5-10 bar
Flow Medium	Condensate
Valve Material	Carbon Steel
Duty	Isolation
Valve Rating	CL300

3- Function:

This valve is ON/OFF valve and is used for isolation purpose in Condensate line.

4- Material:

Body carbon steel, material of internals to be selected by supplier and to be informed to purchaser for their comments, if any. Also refer clause 4.0 of ST47025.

				NAME	SIGNATURE & DATE
			WORKED BY	SUNIL KR. SHARMA	<i>Sunil Sharma</i> 07/02/19
			CHECKED BY	ANIL KUMAR	<i>Anil Kumar</i> 7/2/19
AGREED DEPTT.	NAME	DATE & SIGNATURE	APPROVED BY	S.K.GUPTA	<i>S.K. Gupta</i> 7/2/19

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5.0 For completion of this specification, read this specification along with purchase specification of valve ST47025 & its addendum.

6.0 in continuation to the clause 15.0 of specification ST47025, the min. test requirement envisaged by BHEL are as follows.

6.1 **Testing of materials:** The material of components of valve such as body, bonnet, stem & fasteners shall be tested as per relevant specification for its chemical composition and mechanical properties. For remaining components compliance certificate shall be furnished.

6.2 **Functional Test:** Smooth operation for opening/closing.

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					NAME	SIGNATURE & DATE
					WORKED BY	SUNIL KR. SHARMA
					CHECKED BY	ANIL KUMAR
AGREED DEPTT.	NAME	DATE & SIGNATURE	APPROVED BY	S.K.GUPTA		

TECHNICAL REQUIREMENTS (PNEUMATIC GLOBE Valve-Actuator & accessories)

- 1) General : 24V DC for on-off action.
Tolerance : (+10 & -15%)
Enclosure : IP 65
- 2) Solenoid valve
Connection : Plug and socket type
Energised time : constant rated
coil isolation : class F
Nominal current : $\leq 1A$
TYPE : BOSCH make, model 0 820 022 987, namur interface or equivalent
- 3) Proximity switch : - inductive
switching element
function : PNP close (normal open)
Connection : 3 pole
Connection : Plug and socket type
Shield : wired if available
Qty : 2 nos
TYPE : BALLUFF make, model BES-516 300 S321 NEX S4 D or equivalent
- 4) Pneumatic actuation : Pressure range 3-10 bar, G1/8"
 - a) Adaptor (with ferrule fitting for converting G1/2" air supply line to G1/8": One no to be provided
 - b) Impulse line (G1/8") : Two meters to be provided along with adaptor G1/8" for connection to this valve.
- 5) Normal operation : Valve close
- 6) Fail safe position : Valve close
- 7) Hook up diagram : To be provided
- 8) Write up on operation of valve: To be provided
- 9) The Limit Switches and Solenoid Valve of each globe valve are to be loosely supplied in the main package along with all cables/fittings for termination to the Junction Box.
- 10) The Limit Switches and Solenoid Valve shall be packed in separate wooden box/compartments to avoid breakage.
- 11) Proper Labeling such as 'item name', "P.O." etc. shall be clearly indicated on the loose package Box for identification in case of misplacement.