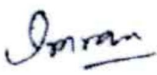


Form No:	 PE&SD	BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION	PY 52267
		PURCHASE SPECIFICATION	Rev. No. 00
		DUAL PLATE CHECK VALVE, CARBON STEEL CLASS ASME 600	Page 1 of 3

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.	DUAL PLATE CHECK VALVE, CARBON STEEL CLASS ASME 600		
	1.0 GENERAL		
	1.1 Scope: This standard specifies the requirements of Cast Dual plate check valves, Carbon Steel body material, and pressure class ASME 600, with flanged end connections. 1.2 This standard shall be supplemented by AA0851403 for technical delivery conditions. 1.3 Application: These valves shall be suitable for Gas service.		
	2.0 DESIGNATION: Dual plate check valve of CS body material, 16" size, 600#, double flanged, flat face shall be indicated as: DPCV CS 16" CL600 FL FF Dual plate check valve of CS body material, 16" size, 600#, wafer type, flat face shall be indicated as: DPCV CS 16" CL600 WAF FF Dual plate check valve of CS body material, 16" size, 600#, wafer lug type, flat face shall be indicated as: DPCV CS 16" CL600 WAF-LUG FF		
	3.0 TECHNICAL REQUIREMENTS:		
	CL	REQUIREMENTS	COMPLIANCE
	3.1		
	3.1.1	Pressure temperature ratings	As per ASME B16.34
	3.2	Materials:	
	3.2.1	Valve Body	ASTM A216 Gr WCB
3.2.2	Plate / Disc	13% Cr SS, AISI 410	
3.2.3	Seat	Buna-N / EPDM	
3.2.4	Spring	SS 316	
3.2.5	Internals	SS 316	
3.2.6	Other parts	Manufacturing standard	
3.2.7	Gasket	Non Asbestos material	
3.3	Construction & Design std	API 594	
3.4	End Connections: <u>Shall be as indicated in variant table</u>		
3.4.1	WAFER/WAFERLUG/DOUBLE FLANGED	For NPS <= 24" flanged ends as per ASME B 16.5	
3.4.2	Flat face(FF)/ Raised Face (RF)	For NPS > 24" flanged ends as per ASME B 16.47 / AWWAC207 CL D (as indicated in variant table)	
3.5	Face to Face and end to end dimensions	API 594	
3.6	Testing Standard	API 598	
3.6.1	Hydraulic Testing Pressure (as per API 598)	2160 psig	
3.6.2	Pneumatic Testing Pressure (as per API 598)	1628 psig	

Refer Doc	LAYOUTS & PIPING ENGINEERING PROJECT ENGINEERING & SYSTEMS DIVISION	PREPARED	CHECKED	APPROVED	DATE
		 IMRAN	 G KALYAN	 G SRIKANTH	31.01.19

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4.0 PAINTING:

Painting shall be strictly as per project specific painting specification provided along with inquiry, unless otherwise indicated in the inquiry.

In case of non-availability of project specific painting specification, the painting and marking shall be as per Technical delivery conditions for valves - **AA0851403**

5.0 TECHNICAL DELIVERY CONDITIONS:

All other requirements including testing not mentioned in this specification shall be as per BHEL corporate standard "Technical delivery conditions for valves - **AA0851403**"

6.0 DOCUMENTATION:

6.1 Along with the offer:

One copy each of the following documents shall be submitted along with offer:

- i. G.A. Drawings / leaflets / catalogues for the offered item with binding dimensions, material specification details, weight etc.
- ii. GA drawing shall indicate all the relevant details including:
 - a) Check valve diameter in meters
 - b) Flap/plate weight in Kgf (mass * g)
 - c) Distance from Hinge to each flap/plate center in meters
 - d) Distance of Centre of Pressure from Hinge in meters
 - e) Spring stiffness in Newton.m/rad
 - f) Coefficient of Restitution between flap/plate material and the valve seat material
- iii. **Signed and stamped copies of this specification accepting the scope of supply as indicated in the specification.**

6.2 After placement of order:

Four copies each of the following documents shall be submitted for approval
 G.A. Drawings for the offered item with binding dimensions, material specification details, tests to be conducted, weight etc.

Schedule for document submissions:

S.no	Description	Schedule
1	Submission of GA drawing by vendor	7 days from the date of P.O.
2	Approval GA drawing by BHEL	14 days from drawing submission *

* The GA drawing submitted by vendor shall be strictly in compliance to all applicable standards and specification. The approval of GA drawing in no way absolves the supplier from meeting this specification requirement.

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VARIANT TABLE:

Var No	Size	End conn	Counter flanges	Item Description	Material Code
01	16"	FL-RF	FLGD, CL 600, B-16.5, RF/125AARH	DPCV CS 16" CL600 FL RF	PY97522267017
02	12"	FL-RF	FLGD, CL 600, B-16.5, RF/125AARH	DPCV CS 12" CL600 FL RF	PY9752267025

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RECORD OF REVISIONS:

Rev No	Date	Revision Detail	Revised by	Approved by
00	18.01.19	FIRST ISSUE	IMRAN	GS