

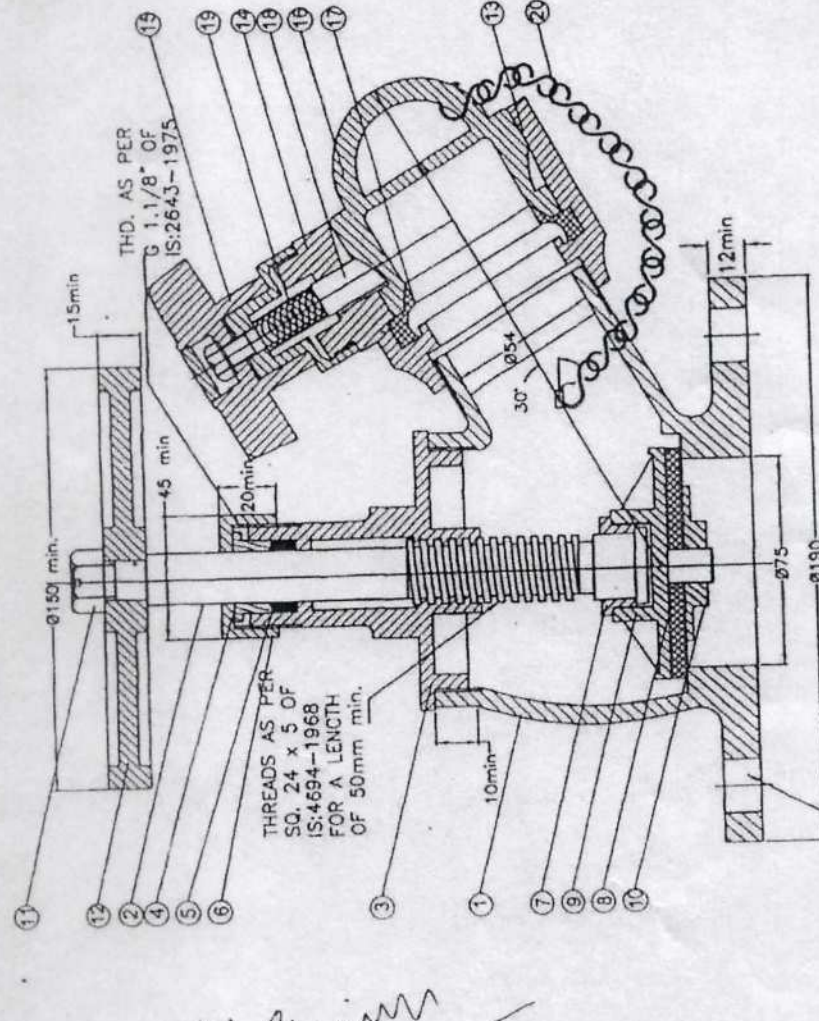
Title	Data Sheet for Hydrant Valve
Project	Fire Detection & Protection System for 2 x 750 MW Pragati III, CCP

1	EQUIPMENT PARTICULARS	
a)	Make	Shah Bhogilal Jethalal & Bros.
b)	Name of Equipment	Hydrant valve
c)	Size & Quantity	75 mm Flanged Inlet & 63mm Inst. Outlet 3" ANSI B 16.5 150# FF & As per system requirement
2	Reference Standards	IS : 5290 – 1993 Type 'A'
3	MATERIAL OF CONSTRUCTION	
	Body, Bonnet, Stop(Seat) Valve, Check Nut, Gland Nut, Female Inst. outlet	SS 304, IS:3444 Gr.-I
a)	Spindle	SS 304, IS:6603
b)	Hand wheel	Cast Iron IS: 210 FG 200
c)	Spring	SS : 304 / IS : 6528
d)	Washer	Rubber IS : 937 Type A
3.1	Stem	Rising type
4	Performance Requirements	
a)	Water Tightness	14 kgf/cm ² (For 2.5 minutes) ,there should not be any Leakage or Sweating
b)	Hydraulic Pressure Test	21 kgf/cm ² , (For 2.5 minutes) ,there should not be any Leakage or Sweating
c)	Flow test	900LPM minimum at 7 kgf/cm ²
5	GA Drawing & Dimensions	As per Drg. SBJ/104/SS-ASA, Rev.00 (Enclosed)
6	Painting	Three Coats of Chlorinated Rubber Paint over a coat of suitable primer with 40 micron total DFT (200 Micron)
7	Approval	ISI Marked & TAC
8	Test and Inspection	As per approved QAP
9	Operating direction	Anti clockwise to open and Clockwise to close.

Client	BHEL Doc. No.
BHEL	PE-VO-314-552-A074

Rev.	Date of Submission	Sheet No.
01	10.12.2009	2 of 2

P.O. NO. : P-269/B/2/15310 Dtd. 10-09-2012
 PROJECT : 2x750 MW Pragati Power, Delhi
 QTY. : 102 + 43 Nos



4 HOLES Ø19mm
 ON 152mm PCD.

HYDRAULIC TEST :

SEAT TIGHTNESS : 14KGf/cm². (FOR 2.5 MINUTES)
 BODY : 21KGf/cm². (FOR 2.5 MINUTES)
 FLOW TEST : 900 LPM MIN @ 7KGf/cm².

TOL. WHERE NOT SPECIFIED ±0.5mm.

ALL DIM. ARE IN M.M.

DRAWN BY: M.R. GAJJAR
 CHECKED BY: M.M. SHAH
 SCALE: 1/2

TITLE: 63mm OBLIQUE TYPE LANDING VALVE

Shah Bhogilal
Jethalal & Bros.
 SINDH 1933, 101, WARDHAWA, CHANDANPURA ROAD, AHMEDABAD-380 015, INDIA

DRG. NO. SBJ/104/SS-ASA
 DATE: 09.09.2009
 REV. 0
 SPECN. IS-5196
 Type-A

NOTE : DUE TO OUR POLICY OF CONTINUOUS IMPROVEMENT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

NO.	DESCRIPTION	MATERIAL
20	CHAIN	GALVANIZED
19	SPRING	SS IS 5528
18	CAM TOOTH	SS IS 3444 Gr. 1
17	RUBBER RING	RUBBER IS 937
16	BLANK CAP	PVC
15	UPPER LUG	SS IS 3444 Gr. 1
14	LOWER LUG	SS IS 3444 Gr. 1
13	FEMALE OUTLET	SS IS 3444 Gr. 1
12	HAND WHEEL	CI IS 210
11	HEX NUT	M.S.
10	SEAT CHECK NUT	SS IS 3444 Gr. 1
9	STOP VALVE	SS IS 3444 Gr. 1
8	SEAT WASHER	RUBBER IS 937
7	CHECK NUT (SPINDLE)	SS IS 3444 Gr. 1
6	GLAND NUT	SS IS 3444 Gr. 1
5	GLAND PACKING	ASBESTOSE ROPE
4	GLAND BUSH	SS IS 3444 Gr. 1
3	BONNET	SS IS 3444 Gr. 1
2	SPINDLE	SS IS 5803
1	BODY	SS IS 3444 Gr. 1

PART LIST

	ITEM (MATERIAL, CLASS, GRADE, RATING, RANGE, SIZE ETC.) SS HYDRANT VALVE (LANDING VALVE)		STANDARD QUALITY PLAN CONFORMING TO CODE: IS: 5290 -1993		QF NO.: 0000-999-QOM-S-017 REV. NO: 01 DATE: 02/06/09 PAGE 1 OF 2 VALID UPTO: 01/06/2009		REVIEWED BY: U. SUDEEP S. SIMLAJ O.P. NIRANJAN		APPROVED BY:  ANTHONY A			
	Sl. No	Components & Operation	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Format of Records	Agency	Remarks
						M	C/N					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		

N^o SS Castings from NTPC approved sources only.

Raw Material

1	Body, check nut, bonnet, stop valve, gland nut, female outlet, gland bush, blank cap	Chemical	Major	Analysis test	1/Heat	IS:3444 - 1999, Gr.1 & 4 /Approved data sheet -- Do --	IS:3444 - 1999, Gr.1 & 4 /Approved data sheet -- Do --	Lab/ supplier certificate	✓	P	V	V
		Heat treatment	Major	Review of heat treatment	1/Heat			HT chart	✓	P	V	V
		Physical	Major	Physical Test	1/Heat/ HT			Lab/ Supplier certificate	✓	P	V	V
2	Spindle	Chemical, physical	Major	Analysis test	One lot	IS:6603 - 2001/ approved data sheet	IS:6603 - 2001/ approved data sheet	Lab/ supplier certificate	✓	P	V	V
3	Spring	Chemical, physical	Major	Analysis test	One lot	IS:6528 - 1995/ approved data sheet	IS:6528 - 1995/ approved data sheet	Lab/ supplier certificate		P		
4	Hand Wheel	Dimensional, Finish Mechanical Test	Minor	Measurement, Visual Mech. test	10%	IS:210 - 1993/ approved data sheet	IS:210 - 1993/ approved data sheet	Lab/ supplier certificate		P		
5	Cup washer, seat washer	Finish	Minor	Visual	10%	IS:937 - 1981/ approved data sheet	IS:937 - 1981/ approved data sheet	Lab/ supplier certificate		P		

LEGEND:

* RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION
 ** M: MANUFACTURER / SUB-SUPPLIER C: MAIN SUPPLIER, N: NTPC P: PERFORM W: WITNESS AND V: VERIFICATION
 AS APPROPRIATE, CHP: NTPC SHALL IDENTIFY IN COLUMN "N" AS "W".

FORMAT NO.: QS-01-QAI-P-10/F3-R1

ENGG. DIV./QA&I

		ITEM (MATERIAL, CLASS, GRADE, RATING, RANGE, SIZE ETC.) SS HYDRANT VALVE (LANDING VALVE)		STANDARD QUALITY PLAN CONFORMING TO CODE: IS: 5290 -1993		QP NO.: 0000-999-QQM-S-017 REV. NO: 01 DATE: 01/06/06 PAGE 2 OF 2 VALID UPTO: 01/06/2009		REVIEWED BY: U. SUDEEP S. SIMAL O.P. NIRANJAN			
Sl. No	Components & Operation	Characteristics	Class	Type of check	Quantum of check	Reference Document	Acceptance Norms	Format of Records	Agency	Remarks	
					M C/N				M C N		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	

<u>In-process Inspection</u>										
1.	Machining of components & Assembly	Dimension, Finish & Fitment	Major	Measurement, Visual	100%	IS: 5290 -1993	IS: 5290 -1993	Internal inspection Report.	P	
<u>Final Inspection</u>										
1	Complete valve	Final dimension including PCD, thickness, end dimension, Marking & ISI Mark	Major	Measurement	100%	IS: 5290 -1993/ approved data sheet	IS: 5290 -1993/ approved data sheet	Inspection Report.	✓	P W W
2	Complete valve	Function, Wheel Movement direction	Major	Operation, Visual	100%	Approved Drawing / Manf's Drawing	Smooth Movement	Inspection Report.	✓	P W W
3	Hydrostatic pressure test for seat	Leakage	Major	Hydraulic Pressure at 14Kg/cm2	100%	IS: 5290 -1993 approved data sheet	No leakage	Inspection Report.	✓	P W W
4	Hydrostatic pressure test for body	Leakage	Major	Hydraulic Pressure at 21Kg/cm2 for 2.5 minutes	100%	IS: 5290 -1993 approved data sheet	No leakage	Inspection Report.	✓	P W W
5	Flow Test	Flow	Major	Flow at 7kg/cm2	1/lot offered	IS: 5290 -1993	IS: 5290 -1993	Inspection Report	✓	P W W
6	Painting, Preservation & Packing	Appearance & Finish	Minor	Visual	100%	Approved Drawing / Data Sheet / IS: 5290 -1993	Approved Drawing / Data Sheet / IS: 5290 -1993	Inspection Report	✓	P V

Note : Material shall be as per Approved Drawing / Data Sheet

LEGEND:

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