

09210-002-47-200-01750
DRAWING NO.:

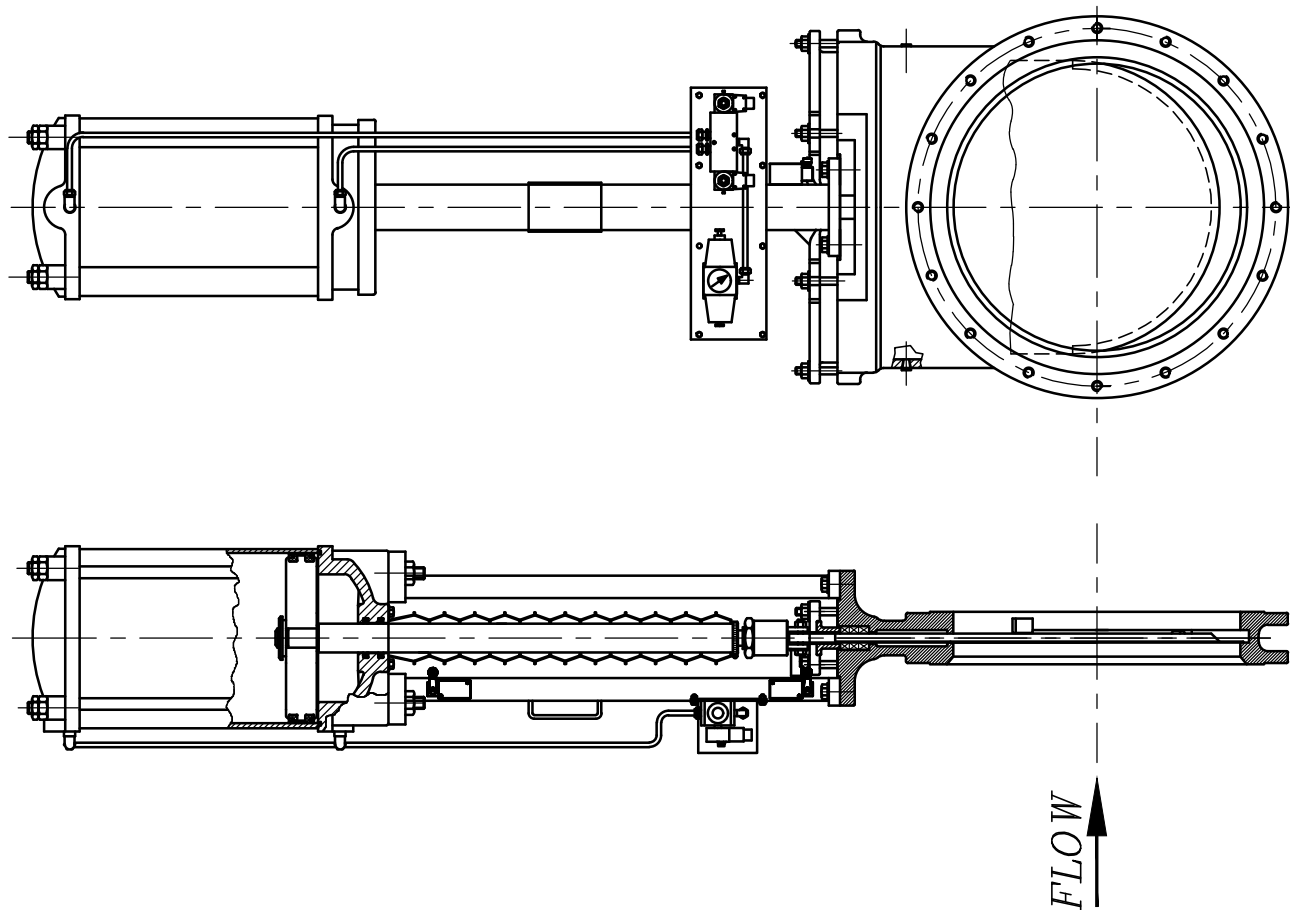
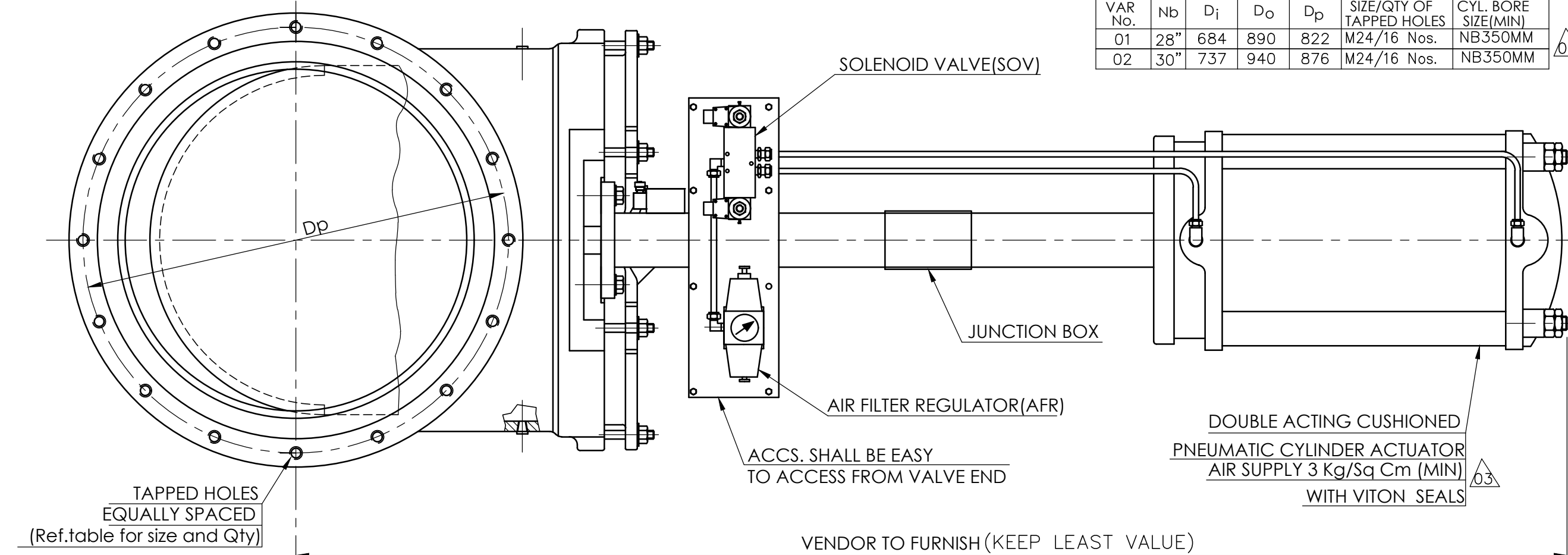
ARRANGEMENT-P

SELECTION TABLE						
VAR No.	Nb	D _i	D _o	D _p	SIZE/QTY OF TAPPED HOLES	CYL. BORE SIZE(MIN)
01	28"	684	890	822	M24/16 Nos.	NB350MM
02	30"	737	940	876	M24/16 Nos.	NB350MM

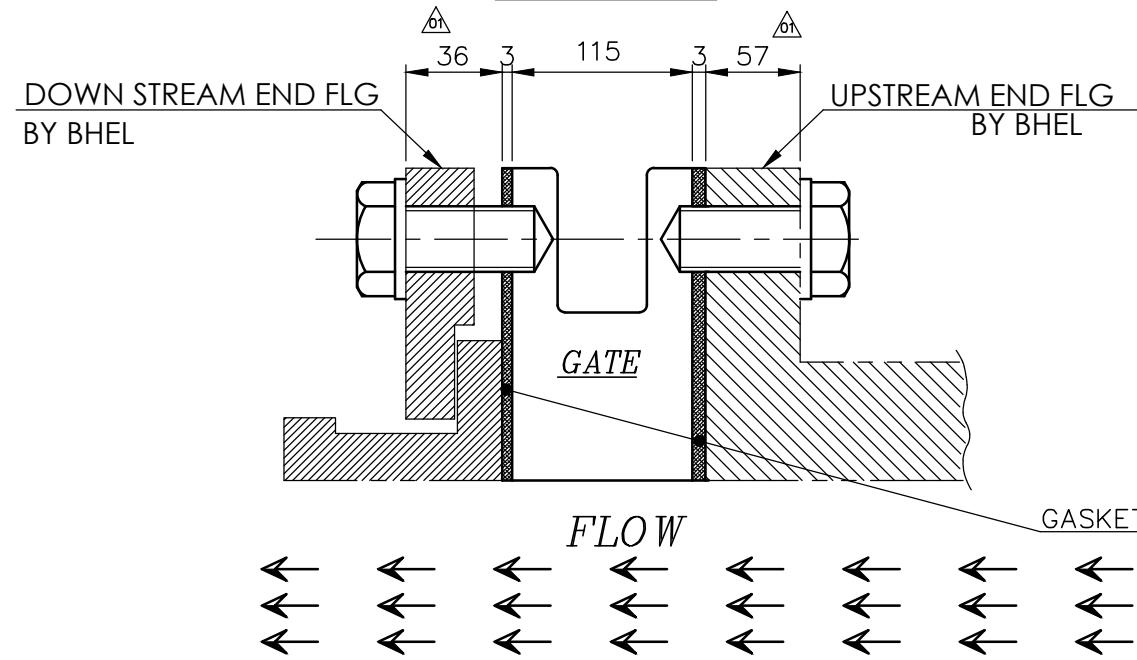
SPECIAL NOTE

- FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 023 0299
- AS THE PUL COAL PARTICLES ARE OF HIGHLY EROSION, THE VENDOR HAS TO PROVIDE SUITABLE MEASURES TO COMBAT EROSION OF VALVE INTERNALS OF 350BHN HARDNESS MIN. $\Delta 0.3$ VENDOR TO INDICATE / CONFIRM IN THE OFFER.
 - VENDOR TO SHOW PNEUMATIC HOOD UP (SCHEMATIC) DIAGRAM.
 - VENDOR TO MAKE 50% QTY AS PER "ARRANGEMENT-P"; TO MAKE 50% QTY AS PER "ARRANGEMENT-Q";

ARRANGEMENT-Q



DETAIL-R



VALVE DESIGN DATA:

- | | |
|-----------------------------|---------------------|
| 1. FLOW MEDIUM | HOT AIR + PUL. COAL |
| 2. FLOW TEMPERATURE | 90 DEG C |
| 3. DESIGN TEMPERATURE | 120 DEG C |
| 4. FLOW MEDIUM VELOCITY | 25 M / SEC |
| 5. SERVICE | COAL PIPE SHUT-OFF |
| 6. CODE REQUIREMENT TO MEET | NFPA 85 |

TERMINAL POINTS OF THE VALVE:

- UPSTREAM END FLANGE t=57 mm Δ
- DOWN STREAM END FLANGE t= 36 mm Δ
- ELECTRICAL TERMINAL POINT AT JUNCTION BOX. (LS & SOV TO BE INTERNALLY WIRED BY VENDOR)
- SINGLE INSTRUMENT AIR CONNECTION TO AFR. (INTER CONNECTING PIPES BY VENDOR)

ACCESSORIES DATA: (VENDOR SCOPE)

- | | |
|----------------------------|---|
| SOLENOID VALVE (SOV) | DUAL COIL, HEAVY DUTY, 5 PORT, 2 WAY CURRENT RATING, REFER BHEL TECH SPECN. ASCO/ROTEX |
| AIR FILTER REGULATOR (AFR) | 3/8" SIZE METALIC BOWL,AIR SUPPLY: 0-7 BAR, |
| LIMIT SWITCH (LS) | 2NO+2NC, 240V AC-5A, / 0.5A 220V DC IP 65 / IP 55, 3/4" NPT(F) CABLE ENTRY, MAKE- HONEYWELL , OMRON; QTY=2 Nos. |
| JUNCTION BOX (JB) | ELECTRICAL TERMINAL FOR LS & SOV. |
| TUBING | 3/8" PVC COVERED COPPER |
| FASTENERS | SUITABLE FOR COMPANION FLANGES SHOWN IN "DETAIL-R". FASTENERS TO BE SA193 GR-B7 OR HIGHER STRENGTH (ref: spec 1041/02). |
| GASKETS | FOR COMPANION FLANGES - t=3 mm |
| GASKETS MATERIAL | SILICONE RUBBER 60/70A SHORE A DUROMETER OR NON-ASBESTOS GASKET OF ARAMID FIBRE WITH NBR BINDER OR HIGHER GRADE MEETING THE DESIGN REQUIREMENT. |

REV	DATE	ALTERED : M. VENKATESWARLU
04	02/08/17	CHK/APP: G SARAVANAKUMAR
ZONE	VAR 01 & 02 TABLE ADDED	

REV	DATE	ALTERED : M. VENKATESWARLU
03	01/08/17	CHK/APP: G SARAVANAKUMAR
ZONE	CYLINDER BORE SIZE & HARDNESS VALUE OF VALVE SEAT ADDED.	

REV	DATE	ALTERED : N. SAIRAM
02	09/07/15	CHK/APP: M. VENKATESWARLU
ZONE	GASKET MATERIAL OPTIONS REVISED.	

REV	DATE	ALTERED : RAVISHANKAR
01	28/10/14	CHK/APP: GANGADHAR
ZONE	CONNECTING FLANGE DIMENSIONS CHANGED BASED ON ALSTOM'S RECOMMENDATIONS(ZONE E-2&D-7).	

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TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME	SIGNATURE	DATE
CHD	RAVI SHANKAR PRASAD	-sd-	16.06.2014
APPD	GANGADHAR M.CH.S	-sd-	16.06.2014
	SARAVANA KUMAR G	-sd-	16.06.2014

DEPT
FS
CODE
129

ALL DIMENSIONS
ARE IN MM

PROJECTION
SCALE
NTS

WEIGHT (Kg)

REF TO ASSY / OLD DWG

2-47-003-01439

COAL SHUT-OFF GATE
(PNEUMATIC OPERATED)

DRAWING NO :
2-47-200-01750 04