

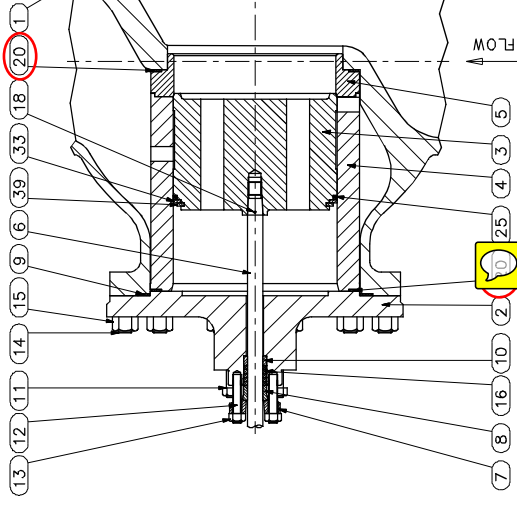
RECOMMENDED SPARES LIST

| CUSTOMER NAME PROJECT NAME CUSTOMER PO N° | | ALSTOM POWER GENERATION AG MARTIZA EAST 1, BULGARIA D61-4500057376 | | VENDOR CONTRACT N° DOCUMENT N° REV STATUS | | WG00799 RSL CWG2608/01 0 | | DATE AFTERMARKET REF CONTACT | | 04-Jun-07 WB/07011/RSL8 W. BAKER | |
|--|------------|--|-----------------|---|---|--------------------------------|-------|------------------------------------|----------|--|---------------------|
| Qty Of Valves | | 1 | | Description | | GLOBE 10" ANSI 150 | | | | | |
| Tag N° | Serial N° | Qty Installed Per Valve | CD Drawing N° | Drawing Item | Description | Part N° | Notes | Recommended 2 Yrs Operation | Delivery | Unit Price | Total Ex-Works |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 3,4-5,25-33,39 | Asy Trim, 10" B SSH 3S 420 Consisting of # | TRIM510012412502 | | 1 | 8 weeks | € 21,450.00 | € 21,450.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 3+ | Plug # | PLG310030102 | ⑥ | 1 | 8 weeks | € 4,312.50 | |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 4+ | Cage # | CAG31001022502 | | 1 | 8 weeks | € 11,737.50 | |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 5+ | Seat # | SRG31011002 | ⑥ | 1 | 8 weeks | € 3,187.50 | |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 25++ | U Cup Seal # | VAS100101 | ① | 1 | 8 weeks | € 1,125.00 | € 1,125.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 33+ | Seal Retainer # | RET3100101 | | 1 | 8 weeks | € 675.00 | |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 39++ | Retaining Ring # | 352553 | ① | 1 | 8 weeks | € 412.50 | € 412.50 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 6+ | Stem | STM320320502 | ① | 1 | 8 weeks | € 225.00 | € 225.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 9++ | Bonnet Gasket | 286657 | ① | 2 | 8 weeks | € 135.00 | € 270.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 10+ | Gland Washer | 373408 | | 1 | 8 weeks | € 82.50 | € 82.50 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 16++ | Gland Packing | 368493 | ① | 2 | 8 weeks | € 82.50 | € 165.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 18+ | Spiral Pin # | U20-163 | | 1 | 8 weeks | € 3.00 | € 3.00 |
| 01MAW15AA012 | CW32608/01 | 1 | CD32608 | 20 | Trim Gasket Consisting # | GSK5101001061 | ① | 2 | 8 weeks | € 210.00 | € 420.00 |
| 01MAW15AA012 | CW32608/01 | 2 | CD32608 | 20++ | Trim Gasket # | 267469Q | ① | 4 | 8 weeks | € 105.00 | € 420.00 |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 14,30,32,33,35,36 | Actuator Spares KIT 160K-L 1" Consisting of # # # | C80141-AQA | | 1 | 8 weeks | € 589.50 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 14+ | Diaphragm # # | 195964BPP | | 1 | 8 weeks | € 525.00 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 32++ | Gasket # # | 356909 | | 1 | 8 weeks | € 37.50 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 33+ | U Cup Seal # # | 357800 | | 1 | 8 weeks | € 15.00 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 35+ | O Ring (Inner) # # | 357801 | | 1 | 8 weeks | € 6.00 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 36+ | O Ring (Outer) # # | 357802 | | 1 | 8 weeks | € 6.00 | |
| 01MAW15AA012 | CW32608/01 | 1 | REFER TO MANUAL | 30+ | Bushing | 356093 | | 1 | 8 weeks | € 502.50 | € 502.50 |
| Total Ex-Works Value Sheet | | | | | | | | | | € 25,075.50 | € 25,075.50 |
| Packing | | | | | | | | | | See Summary Sheet | See Summary Sheet |
| Carriage CPT Job Site Galabovo Romania | | | | | | | | | | See Summary Sheet | See Summary Sheet |
| Total Price Packed and Delivered CPT Job Site Galabovo Romania | | | | | | | | | | € | € 25,075.50 |
| For And On Behalf Of SPX Flow Control | | | | | | | | | | Compiled By | Mr D.G.Edwards |
| | | | | | | | | | | Title/Position | Aftermarket Manager |
| | | | | | | | | | | Date | |

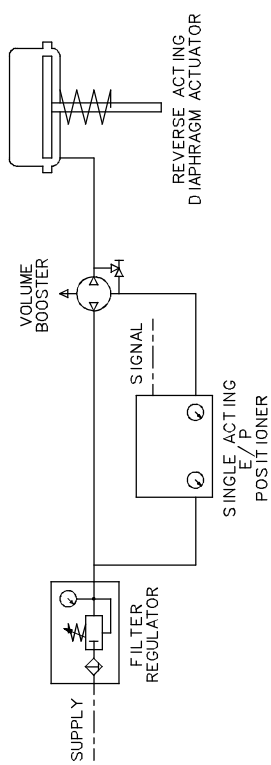
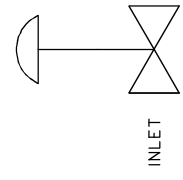
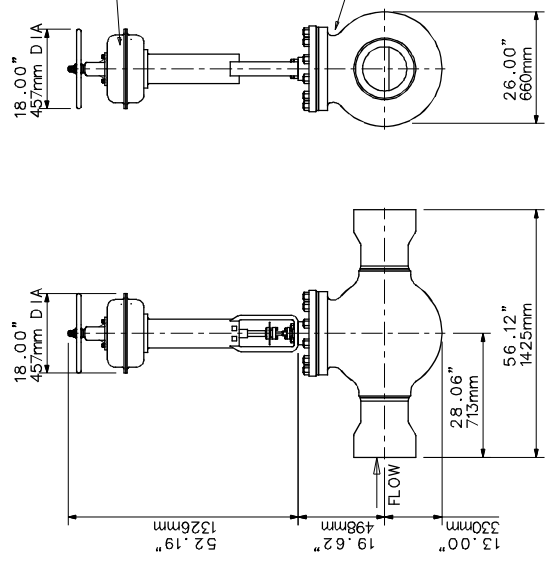
① Please note that items marked ① must be changed during an inspection or maintenance overhaul it should be ensured that these items are available before commencing the inspection.
Do Not Re-Use

⑥ Please note that items marked ⑥ are operational spares
Please note that these items require factory mating prior to shipment and form a unique matched set that must not be separated in storage or during valve rebuild
We will lap the plug with the seat prior to shipment
Plug and seat cannot be purchased as individual components

| | | | | | | | | | | |
|--|------------------|---------------------------|---------------|------------------|---|-----------|--|---|------------------|-------------|
| COPES-VULCAN, SPX Valves & Controls Road Two, Winsford Industrial Estate, Cheshire. CW7 3QL Phone: 0044 1606 552041 Fax: 0044 1606 558275 | | | | | CONTROL VALVE SPECIFICATION SHEET | | | | | |
| Customer Name: ALSTOM POWER GENERATION AG Customer Inquiry: EMAIL Customer PO: D61-4500057376 Ultimate User: MARITZA EAST 1, BULGARIA Tag: 01MAW15AA012 Application: GLAND STEAM EXHAUST VALVE | | | | | CV Inquiry: DMS/060112/RK1 CV Job: WG/00799 CV Job Ref: CW32608 CV Serial #: 07CW32608/01 Item: 2 Quantity: 1 | | | | | |
| Description: 10" (250 mm), CL150, WCB , BW, SD-700-160L RA | | | | | | | | | | |
| FLUID: Steam | | SERVICE CONDITIONS | | | | | | | | |
| | FLOW (kg/sec) | P1 (bar a) | P2 (bar a) | Temp. (deg C) | Cv | CV (%) | Travel (%) | Valve Outlet Vel. (ft/min) | Noise * (dBA) | Remarks |
| COND 1 | 2.5 | 1.03 | 0.341 | 200 | 885 | 84% | 73% | 61943 | 79 | |
| COND 2 | | | | | | | | | | |
| COND 3 | | | | | | | | | | |
| COND 4 | | | | | | | | | | |
| COND 5 | | | | | | | | | | |
| SHUTOFF | | 10 | 1 | | Allowable Leakage: | | | * Estimated Noise Level with 3.5" of Insulation | | |
| DESIGN | | 10 | | 250 | Class IV | | | | | |
| BODY AND BONNET | | | | | | | | | | |
| Style: SD - Severe Duty, Globe Size: 10 inch ASME Class: 150 Standard Body Inlet: Butt Weld, Sch STD per ANSI B16.25, Fig. 2b Body Outlet: Butt Weld, Sch STD per ANSI B16.25, Fig. 2b Material: A-216 WCB Inlet Pipe: 14 In. (350 mm), Sch STD Outlet Pipe: 14 In. (350 mm), Sch STD | | | | | Bonnet Type: Bolted Packing Material: Grafoil Packing Hardware: Stainless Steel Packing Nut Torque: 7 ft-lbs. Options: Single Packed Inlet Reducer: 10" X 14" Sch STD, Length: 13.00 In., Material: A-234 WPB Outlet Expander: 10" X 14" Sch STD, Length: 13.00 In., Material: A-234 WPB | | | | | |
| TRIM | | | | | | | | | | |
| Size: 10 inch with 5 Starts Style: ONE STAGE HUSH (Balanced w/U-Cup Seals) Flow Direction: UNDER THE WEB Stem Diameter: 1.00 in. Characteristic: ONE STAGE HUSH | | | | | Seat Type: METAL Trim Material: 400/47 SST Max. Cv Available: 1058 @Max. Trim Travel of 4" (±1/8) Min. Controllable Cv of Trim: 9.5 | | | | | |
| ACTUATOR | | | | | | | | | | |
| Style: 700 DIAPHRAGM Size: 160L (Square Inch) Action: Spring Closing (Reverse) Handwheel: Top Mounted Frame Material: Ductile Iron Air Pressure Available: 5.0 bar g (73 psig) Air Pressure Required: 2.7 bar g (39 psig) | | | | | Actuator Mounting Style: 4x Studded Actuator Spring: 357580 Spring Rate: 768 (lbs/inch) Max. Stem Thrust Required to Close: 1264 (lbs) Max. Stem Thrust Required to Open: 463 (lbs) Spring Precompression (Diaphragm Air Pressure): 13 (psig) Pressure @ Full Valve Travel (With No Internal Valve Pres.): 32 (psig) | | | | | |
| ACCESSORIES | | | | | | | | | | |
| Positioner: Copes SIPART PS2, Single Acting Positioner Input Range: 4-20 mA Position FeedBack Module (4-20ma) : YES Alarm Module : NO HART Module : NO | | | | | Airlock: None Filter/Regulator: Bellofram 51FR w/Gauges Qty: 1 Solenoid Valve: None Booster Relay: SMC IL100-03 Qty: 1 Additional Acc'y: | | | | | |
| Piping: Copper Tubing Limit Switches: None | | | | | | | | | | |
| COMMENTS | | | | | | | | | | Review: 11. |
| Valve open / closed 10 seconds or less | | | | | | | | | | |
| Model = SD10 Body Option: BDY510080201 Bonnet Option: BNT510380201 Trim Option: TRM510012412502 Hardware Pack Option: HDP5215112 Actuator Option: ACT51016**21 Stem Option: STM53010011212 Gasket Option: GSK5101001061 Accessory Kit Option: AC7A25100*12020 I.D. Plate: OPT264515 | | | | | | | | | | |
| | | | | | 03 | CMR | Issued for contract use | | | Mar-24-2007 |
| | | | | | 02 | IJW | Revised Per Client Specification Rev A | | | Jul-25-2006 |
| | | | | | 01 | DMS | REVISED PER CUSTOMER COMMENTS | | | Jan-24-2006 |
| | | | | | 00 | DMS | INITIAL BID | | | Jan-18-2006 |
| | | | | | Rev | Initials | Description | | | Date |
| Program Rev Level: 9.2.11 S File Name: K:\...\Technical\Contract Docs\Data Sheets\DS-CW32608.VS3 (9.2.11) | | | | | | | | | | |

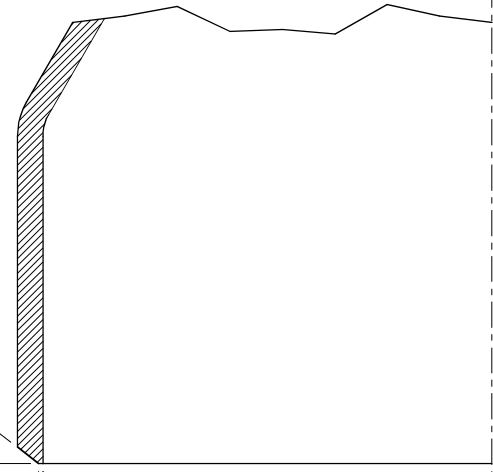


10" ANSI 150 GLOBE VALVE
BUTTWELD END CONNECTION



SUPPLY - 0.250" NPT FEMALE
SIGNAL - ELECTRICAL

3
—
ww
„60“



| ITEM | DESCRIPTION |
|------|------------------|
| 1 | BODY |
| 2 | BONNET |
| 3+ | PLUG |
| 4+ | CAGE |
| 5+ | SEAT |
| 6+ | STEM |
| 7 | LAND BRIDGE |
| 8 | LAND FOLLOWER |
| 9++ | BONNET GASKET |
| 10 | LAND WASHER |
| 11 | ACTUATOR BOLLING |
| 12 | LAND STUD |
| 13 | LAND NUT |
| 14 | BONNET STUD |
| 15 | BONNET NUT |
| 16++ | LAND PACKING |
| 18++ | SPRINT PIN |
| 20++ | TRIM GASKET |
| 25+ | "U" CUP SEAL |
| 33+ | SEAL RETAINER |
| 39+ | KEEPING RING |

RECOMMENDED SPARES
+ OPERATIONAL SPARES
++ COMMISSIONING SPARES

[illegible]