

AUTOMATIC BUTTERFLY VALVE

PROJECT SPECIFICATION

Number

E-H6280-241

Sheet : 5 of 15

By : F. Heyman

Rev.

3

R
E
V

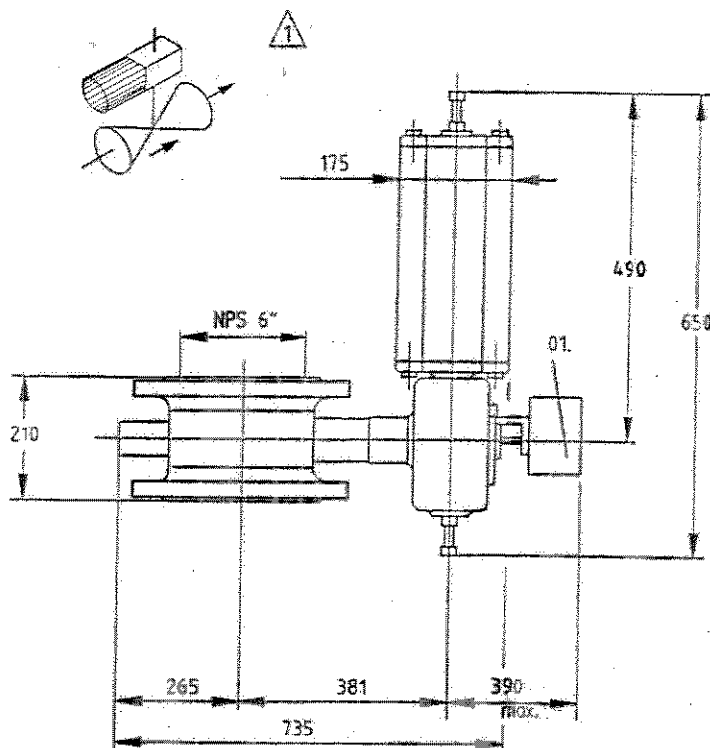
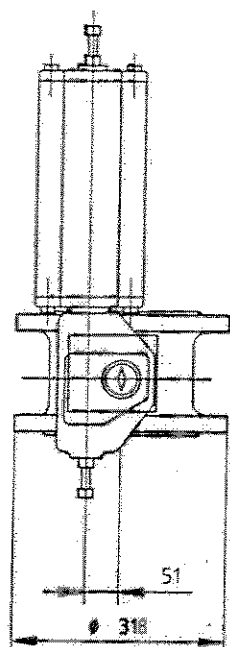
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|----|---|--|
| 1 | TAG NO. | |
| 2 | | U-XCV75014, 75024, 75034, 75044, 75054, 75064 |
| 3 | QUANTITY | U-XCV75074, 75084, 75094, 75104 |
| 4 | SERVICE | 10 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | DUMP / PURGE |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | OFF GAS / H ₂ , C ₁ -C ₆ , C ₁ , N ₂ , H ₂ O / 21,79 |
| 7 | MINIMUM DESIGN METAL TEMPERATURE | -46 / +36 °C ACTUATOR POSITIONER LIMIT SW (note 1) |
| 8 | OPERATING TEMPERATURE MIN. / MAX. | -34 °C FOR VALVE BODY AND SEALS |
| 9 | OPERATING FLOW COND. 1 / 2 / 3 | 30,0 / 30,0 °C |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | 2520 / 2930 / 6320 Nm ³ /h |
| 11 | DP COND. 1 / 2 / 3 | 5,66 / 1,56 / 5,65 kg/cm ² g |
| 12 | DP IN CLOSED POSITION | 4,028 / 0,010 / 3,895 kg/cm ² |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | 39,0 kg/cm ² |
| 14 | VALVE BODY SIZE RATING STYLE | 23,5 / 730 / 59 |
| 15 | SELECTED CV CHARACTERISTIC | DN 150 / 300 lbs / DOUBLE FLANGED |
| 16 | BODY MATERIAL | 920 / EQUAL PERCENTAGE |
| 17 | FLANGE RATING FLANGE FACE FINISH | ASTM 352 LCB (-34°C) |
| 18 | FACE TO FACE STD. FACE TO FACE LENGTH | 300 lbs / SMOOTH FINISH 3.2 - 6.3 µmRA |
| 19 | VALVE SERVICE STANDARD | LARGE FEMALE FACE ANSI B16.5a / 210MM |
| 20 | VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL | PSA HIGH CYCLING DUTY |
| 21 | VALVE INITIAL CONTROL POSITION | UNIDIRECTIONAL |
| 22 | SHAFT POSITION FLOW DOWN / UPSTREAM | 0 - 25% |
| 23 | BEARINGS AND EXCLUDER RING MATERIAL | FLOW SHAFT DOWNSTREAM |
| 24 | SHAFT PACKING TYPE MATERIAL | FOR HIGH CYCLE BUTTERFLY VALVE |
| 25 | DISC PINS SHAFT MATERIAL | LIFE LOADED / PTFE |
| 26 | SEAT TYPE MATERIAL | ASTM A487 CA 6 NM / MFR STD / ASME 420 |
| 27 | LEAKAGE RATE (CLASS TO B16.104) | SOFT SEAT / FKM (VITON) |
| 28 | ACTUATOR TYPE / MOUNTING POSITION | CLASS VI BUBBLE TIGHT |
| 29 | ACTUATOR SIZE / AIR CONNECTION SIZE | PISTON, SPRING RETURN / C-HU |
| 30 | ACTUATOR ACTION | B1JU10-40C / 3/8" NPT |
| 31 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | AIR TO OPEN |
| 32 | SPRING TYPE / ACTION | 3,5 / 4,5 / 6,0 kg/cm ² g |
| 33 | NUMBER OF CYCLES PER YEAR | SINGLE SPRING / SPRING TO CLOSE |
| 34 | VALVE DUTY ON/OFF or CONTROL | +/- 105120 |
| 35 | VALVE POSITIONER MODEL | HIGH CYCLE DUTY / CONTROL |
| 36 | POSITIONER TYPE | METSO, SMART ND8261XC EEx ia IIC T6 |
| 37 | CALIBRATED RANGE | SMART ELECTRO / PNEUMATIC |
| 38 | AIR SUPPLY PRESSURE / AIR CONNECTION | 4 - 20 mA |
| 39 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / NPTF |
| 40 | BOOSTER | NOT REQUIRED |
| 41 | VALVE POSITION TRANSMITTER | NOT REQUIRED |
| 42 | TRAVEL STOP | 0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6 |
| 43 | TUBING & FITTING MATERIAL / SIZE | STANDARD |
| 44 | VALVE SUPPLIER | FOR TUBE AND FITTINGS REFER TO E-H6280-241T |
| 45 | VALVE TYPE NO. | |
| 46 | REMARKS : | 6" CL300 AC25 B1JU12/55C NDB261/ CXTS1Y-L-I |
| 47 | | note 1: Electrical Certificate for -40°C. Functional operation shall be guaranteed for -46°C ambient |

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C.B. Hoxmatov

Dimensions are maximum values (given in millimeters). Weight is approximate value (given in kgs).

MOUNTING POSITION : C-HU



BUTTERFLY VALVE SIZE 150 (06")

RATING ACC. TO ANSI class 300

FLANGE DRILLING ACC. TO ANSI class 300

FACING : ASME B16.5 Large female (Ra 3.2-6.3)

ACTUATOR

TYPE : B1JU10/40C

ACCESSORIES

01. VALVE CONTROLLER/POSITION TRANSMITTER ND8261/CXT1S1Y-I, EExialICT6,

WITH SST GAUGES (HOUSING/INTERNAL) GRADUATED IN Kg/cm² /bar/psi

MOUNTED WITH ELBOWS TO HAVE VERTICAL READING SCALE, CABLE ENTRY M20x1.5 ⚠

PIPING AND FITTINGS : CU/PVC mm - Swagelok Brass

TOTAL WEIGHT : 150 kg

SO NO. : 113520-003

VENDOR / ORDER NO. :

/ OB-03114-P

CUSTOMER / ORDER NO. : UOP N.V. / H6280

TAG. NO. : U-XCV75014, U-XCV75024, U-XCV75034, U-XCV75044, U-XCV75054, U-XCV75064, U-XCV75074, U-XCV75084, U-XCV75094, U-XCV75104

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| 1 | 03.03.27 | CK |
| ORIG | 03.02.17 | CK |

Field Systems SA WITTENHEIM FRANCE

CERTIFIED DIMENSION DRAWING

CONTROL VALVE

DIM113520-003

6" CL300 MAPAG AC25-Z-B1JU10/40-ND8261/CXT1S1Y-I