

UOP

UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC BUTTERFLY VALVE

17.12.10.19

PROJECT SPECIFICATION

Number

E-H6279-241

Sheet : 7 of 15

By : F. Heyman

Rev.

3

REV

| | | | |
|----|---|-------------|---|
| 1 | TAG NO. | | U-XV55016, 55026, 55036, 55046, 55056, 55066 |
| 2 | | | |
| 3 | QUANTITY | | |
| 4 | SERVICE | | 6 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | | EQUALISATION 3 |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | | HYDROGEN / H2 / 2,02 |
| 7 | MINIMUM DESIGN METAL TEMPERATURE | | - 48 / + 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 | | 38.0 / 43.0 °C |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | xxx / xxx / | 21070 Nm²/h |
| 11 | DP COND. 1 / 2 / 3 | xxx / xxx / | 6,65 kg/cm²g |
| 12 | DP IN CLOSED POSITION | xxx / xxx / | 0,34 kg/cm² |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | | 20,0 kg/cm² |
| 14 | VALVE BODY SIZE RATING STYLE | xxx / xxx / | 162 |
| 15 | SELECTED CV CHARACTERISTIC | | DN 80 / 300 lbs / DOUBLE FLANGED |
| 16 | BODY MATERIAL | | 180 / ON-OFF |
| 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 / 180MM |
| 20 | VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL | | PSA HIGH CYCLING DUTY |
| 21 | VALVE INITIAL CONTROL POSITION | | BI-DIRECTIONAL |
| 22 | SHAFT POSITION FLOW DOWN / UPSTREAM | | FLOW SHAFT DOWNSTREAM |
| 23 | BEARINGS AND EXCLUDER RING MATERIAL | | HIGH CYCLE UPGRADE KIT |
| 24 | SHAFT PACKING TYPE MATERIAL | | LIFE LOADED / PTFE |
| 25 | DISC PINS SHAFT MATERIAL | | ASTM A487 CA 6 NM / MFR STD / ASME 420 |
| 26 | SEAT TYPE MATERIAL | | SOFT SEAT / FKM (VITON) |
| 27 | LEAKAGE RATE (CLASS TO B16.104) | | CLASS VI BUBBLE TIGHT |
| 28 | ACTUATOR TYPE / MOUNTING POSITION | | PISTON, SPRING RETURN / A-HU |
| 29 | ACTUATOR SIZE / AIR CONNECTION SIZE | | B1JU10/40C / 3/8" NPT |
| 30 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | | 3,5 / 4,5 / 6,0 kg/cm²g |
| 31 | SPRING TYPE / ACTION | | SINGLE SPRING / SPRING TO CLOSE |
| 32 | NUMBER OF CYCLES PER YEAR | | + / - 200000 |
| 33 | VALVE DUTY ON/OFF or CONTROL | | HIGH CYCLE DUTY / ON-OFF |
| 34 | VALVE POSITIONER MODEL | | NOT REQUIRED |
| 35 | POSITIONER TYPE | | |
| 36 | CALIBRATED RANGE | | |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | | 4,5 kg/cm²g / NPTF |
| 38 | AIR FILTER / REGULATOR | | NOT REQUIRED |
| 39 | SOLENOID | | SOLENOID INSTALLED BY OTHERS |
| 40 | PROXIMITY SWITCH / POSITION | | SolaR, EEx ia IIC T6 / CLOSED |
| 41 | TRAVEL STOP | | STONEL |
| 42 | TUBING & FITTING MATERIAL / SIZE | | STANDARD |
| 43 | VALVE SUPPLIER | | NOT REQUIRED |
| 44 | VALVE TYPE NO | | METSO AUTOMATION |
| 45 | REMARKS : | | 3" CL300 AC25 B1JU10/40LS / |
| 46 | | | |
| 47 | | | |

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C.B. Лохматов

UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC BUTTERFLY VALVE

PROJECT SPECIFICATION

Number

E-H6279-241

Rev.

3

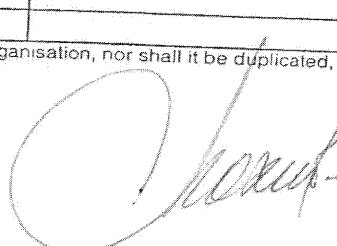
Sheet : 6 of 15

By : F. Heyman

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|----|---|---|
| 1 | TAG NO. | |
| 2 | | U-XV55015, 55025, 55035, 55045, 55055, 55065 |
| 3 | QUANTITY | U-XV55075, 55085, 55095, 55105, 55115, 55125 |
| 4 | SERVICE | 12 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | EQUALISATION 1 & 2 |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | HYDROGEN / H ₂ / 2,02 |
| 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 | 43,0 / 43,0 °C |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | 43920 / xxxx / 53980 Nm ² /h |
| 11 | DP COND. 1 / 2 / 3 | 10,55 / xxx / 14,82 kg/cm ² g |
| 12 | DP IN CLOSED POSITION | 0,35 / xxx / 0,38 kg/cm ² |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | 20,0 kg/cm ² |
| 14 | VALVE BODY SIZE RATING STYLE | 272 / xxx / 272 |
| 15 | SELECTED CV CHARACTERISTIC | DN 100 / 300 lbs / DOUBLE FLANGED |
| 16 | BODY MATERIAL | 400 / ON - OFF |
| 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 / 190MM |
| 20 | VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL | PSA HIGH CYCLING DUTY |
| 21 | VALVE INITIAL CONTROL POSITION | BI-DIRECTIONAL |
| 22 | SHAFT POSITION FLOW DOWN / UPSTREAM | FLOW SHAFT DOWNSTREAM |
| 23 | BEARINGS AND EXCLUDER RING MATERIAL | HIGH CYCLE UPGRADE KIT |
| 24 | SHAFT PACKING TYPE MATERIAL | LIFE LOADED / PTFE |
| 25 | DISC PINS SHAFT MATERIAL | ASTM A487 CA 6 NM / MFR STD / ASME 420 |
| 26 | SEAT TYPE MATERIAL | SOFT SEAT / FKM (VITON) |
| 27 | LEAKAGE RATE (CLASS TO B16.104) | CLASS VI BUBBLE TIGHT |
| 28 | ACTUATOR TYPE / MOUNTING POSITION | PISTON, SPRING RETURN / A-HU |
| 29 | ACTUATOR SIZE / AIR CONNECTION SIZE | B1JU10/40C / 3/8" NPT |
| 30 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | 3,5 / 4,5 / 6,0 kg/cm ² g |
| 31 | SPRING TYPE / ACTION | SINGLE SPRING / SPRING TO CLOSE |
| 32 | NUMBER OF CYCLES PER YEAR | + / - 400000 |
| 33 | VALVE DUTY ON/OFF or CONTROL | HIGH CYCLE DUTY / ON/OFF |
| 34 | VALVE POSITIONER MODEL | NOT REQUIRED |
| 35 | POSITIONER TYPE | |
| 36 | CALIBRATED RANGE | |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | |
| 38 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / NPTF |
| 39 | SOLENOID | NOT REQUIRED |
| 40 | PROXIMITY SWITCH / POSITION | SOLENOID INSTALLED BY OTHERS |
| 41 | TRAVEL STOP | STONEL SR44B2MDS, EEx ia IIC T6 / CLOSED |
| 42 | TUBING & FITTING MATERIAL / SIZE | STANDARD |
| 43 | VALVE SUPPLIER | NOT REQUIRED |
| 44 | VALVE TYPE NO | METSO |
| 45 | REMARKS : | 4" CL300 MAPAG AC 25 B1JU10/40C -LS / |
| 46 | | |
| 47 | | |

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 C.B. Joxma

UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC BUTTERFLY VALVE

PROJECT SPECIFICATION

Number

E-H6279-241

Rev.

3

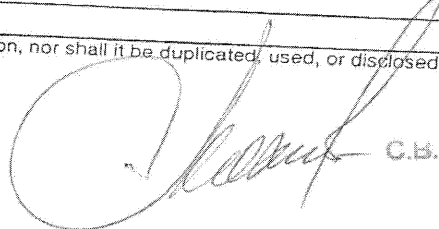
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By : F. Heyman

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|----|---|---|
| 1 | TAG NO. | |
| 2 | | U-XCV55014, 55024, 55034, 55044, 55054, 55064 |
| 3 | QUANTITY | U-XCV55074, 55084, 55094, 55104, 55114, 55124 |
| 4 | SERVICE | 12 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | DUMP / PURGE |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | OFF GAS / H ₂ , CO, CH ₄ , CO ₂ , H ₂ O / 28,75 |
| 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 | 28,0 / 28,0 °C |
| 10 | PRESSURE UPSTREAM COND. 1/2/3 | 2418 / 4610 / 8060 Nm ² /h |
| 11 | DP COND. 1/2/3 | 1,95 / 0,50 / 1,95 kg/cm ² g |
| 12 | DP IN CLOSED POSITION | 1,6 / 0,008 / 1,6 kg/cm ² |
| 13 | REQUIRED C _v COND. 1/2/3 | 20,0 kg/cm ² |
| 14 | VALVE BODY SIZE RATING STYLE | 66.1 / 1819 / 221,7 |
| 15 | SELECTED CV CHARACTERISTIC | DN 200 / 300 lbs / DOUBLE FLANGED |
| 16 | BODY MATERIAL | 1920 / 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 / 230MM |
| 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 GLANDPACKING / 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 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | B1JU16/55C / 1/2" NPT |
| 31 | SPRING TYPE / ACTION | 3,5 / 4,5 / 6,0 kg/cm ² g |
| 32 | NUMBER OF CYCLES PER YEAR | SINGLE SPRING / SPRING TO CLOSE |
| 33 | VALVE DUTY ON/OFF or CONTROL | +/- 100000 |
| 34 | VALVE POSITIONER MODEL | HIGH CYCLE DUTY / CONTROL |
| 35 | POSITIONER TYPE | METSO, SMART ND8221/CXT EEx ia IIC T6 |
| 36 | CALIBRATED RANGE | SMART ELECTRO / PNEUMATIC |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | 4 - 20 mA |
| 38 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / NPTF |
| 39 | BOOSTER | NOT REQUIRED |
| 40 | VALVE POSITION TRANSMITTER | YES VALTEK 76404-999 |
| 41 | TRAVEL STOP | 0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6 |
| 42 | TUBING & FITTING MATERIAL / SIZE | STANDARD |
| 43 | VALVE SUPPLIER | FOR TUBE AND FITTINGS REFER TO E-H6279-241T |
| 44 | VALVE TYPE NO. | METSO |
| 45 | REMARKS : | 8" CL300 MAPAG AC25 B1JU16/55C ND8221/ CXT1S1Y-I-Instg |
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C.B. Iloxmatov

UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC BUTTERFLY VALVE

PROJECT SPECIFICATION

Number

E-H6279-241

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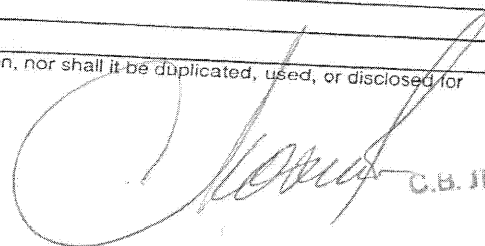
By : F. Heyman

Rev.
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|----|---|--|
| 1 | TAG NO. | |
| 2 | | U-XV55012, 55022, 55032, 55042, 55052, 55062 |
| 3 | QUANTITY | U-XV55072, 55082, 55092, 55102, 55112, 55122 |
| 4 | SERVICE | 12 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | PRODUCT |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | HYDROGEN / H ₂ / 2,02 |
| 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 | 43,0 / 43,0 °C |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | 15105 / xxxx / 22400 Nm ³ /h |
| 11 | DP COND. 1 / 2 / 3 | 19,1 / xxx / 19,1 kg/cm ² g |
| 12 | DP IN CLOSED POSITION | 0,056 / xxx / 0,121 kg/cm ² |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | 20,0 kg/cm ² |
| 14 | VALVE BODY SIZE RATING STYLE | 162 / xxx / 162 |
| 15 | SELECTED CV CHARACTERISTIC | DN 80 / 300 lbs / DOUBLE FLANGED |
| 16 | BODY MATERIAL | 180 / ON-OFF |
| 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 / 180MM |
| 20 | VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL | PSA HIGH CYCLING DUTY |
| 21 | VALVE INITIAL CONTROL POSITION | UNIDIRECTIONAL |
| 22 | SHAFT POSITION FLOW DOWN / UPSTREAM | FLOW SHAFT DOWNSTREAM |
| 23 | BEARINGS AND EXCLUDER RING MATERIAL | FOR HIGH CYCLE BUTTERFLY VALVE |
| 24 | SHAFT PACKING TYPE MATERIAL | LIFE LOADED / PTFE |
| 25 | DISC PINS SHAFT MATERIAL | ASTM A487 CA 6 NM / MFR STD / ASME 420 |
| 26 | SEAT TYPE MATERIAL | SOFT SEAT / FKM (VITON) |
| 27 | LEAKAGE RATE (CLASS TO B16.104) | CLASS VI BUBBLE TIGHT |
| 28 | ACTUATOR TYPE / MOUNTING POSITION | PISTON, SPRING RETURN / A-HU |
| 29 | ACTUATOR SIZE / AIR CONNECTION SIZE | B1JU10/40C / 3/8" NPT |
| 30 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | 3,5 / 4,5 / 6,0 kg/cm ² g |
| 31 | SPRING TYPE / ACTION | SINGLE SPRING / SPRING TO CLOSE |
| 32 | NUMBER OF CYCLES PER YEAR | + / - 100000 |
| 33 | VALVE DUTY ON/OFF or CONTROL | HIGH CYCLE DUTY / ON-OFF |
| 34 | VALVE POSITIONER MODEL | NOT REQUIRED |
| 35 | POSITIONER TYPE | |
| 36 | CALIBRATED RANGE | |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | |
| 38 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / NPTF |
| 39 | SOLENOID | NOT REQUIRED |
| 40 | PROXIMITY SWITCH / POSITION | SOLENOID INSTALLED BY OTHERS |
| 41 | TRAVEL STOP | STONEL SR44B2MDS, EEx ia IIC T6 / CLOSED |
| 42 | TUBING & FITTING MATERIAL / SIZE | STANDARD |
| 43 | VALVE SUPPLIER | NOT REQUIRED |
| 44 | VALVE TYPE NO | METSO |
| 45 | REMARKS : | 3" CL300 MAPAG AC 25-Z- B1JU10/40C-LS |
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UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC BUTTERFLY VALVE

PROJECT SPECIFICATION

Number

E-H6279-241

Sheet : 3 of 15

By : F. Heyman

Rev.

3

| | | |
|----|---|--|
| 1 | TAG NO. | |
| 2 | | U-XCV55011, 55021, 55031, 55041, 55051, 55061 |
| 3 | QUANTITY | U-XCV55071, 55081, 55091, 55101, 55111, 55121 |
| 4 | SERVICE | 12 |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | FEED / REPRESSURISATION |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | FEED GAS / H ₂ , CO, CH ₄ , CO ₂ , H ₂ O / 12,03 |
| 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 | 38,0 / 38,0 °C |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | 4989 / 16630 / 27738 Nm ³ /h |
| 11 | DP COND. 1 / 2 / 3 | 19.8 / 19.8 / 19.8 kg/cm ² g |
| 12 | DP IN CLOSED POSITION | 5,02 / 5,02 / 0,053 kg/cm ² |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | 20,0 kg/cm ² |
| 14 | VALVE BODY SIZE RATING STYLE | 15,4 / 51,4 / 730 |
| 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 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. | B1JU12/55C / 1/2" NPT |
| 31 | SPRING TYPE / ACTION | 3,5 / 4,5 / 6,0 kg/cm ² g |
| 32 | NUMBER OF CYCLES PER YEAR | SINGLE SPRING / SPRING TO CLOSE |
| 33 | VALVE DUTY ON/OFF or CONTROL | +/- 100000 |
| 34 | VALVE POSITIONER MODEL | HIGH CYCLE DUTY / CONTROL |
| 35 | POSITIONER TYPE | METSO, SMART ND8221/CXT EEx ia IIC T6 |
| 36 | CALIBRATED RANGE | SMART ELECTRO / PNEUMATIC |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | 4 - 20 mA |
| 38 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / NPTF |
| 39 | BOOSTER | NOT REQUIRED |
| 40 | VALVE POSITION TRANSMITTER | YES MOORE 61H 1/4" NPT |
| 41 | TRAVEL STOP | 0-100 % INCORPORATED IN POSITIONER EEx ia IIC T6 |
| 42 | TUBING & FITTING MATERIAL / SIZE | STANDARD |
| 43 | VALVE SUPPLIER | FOR TUBE AND FITTINGS REFER TO E-H6279-241T |
| 44 | VALVE TYPE NO. | METSO |
| 45 | REMARKS : | 6" CL300 MAPAG AC25 B1JU12/5C ND8221/ CXT1S1Y-J-Inst |
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C.B. Лохматов



UOP N.V. Noorderlaan 147, B-2030 Antwerp, Belgium

AUTOMATIC GLOBE VALVE

PROJECT SPECIFICATION

Number

E-H6279-240

Sheet : 3 of 5

By : F. Heyman

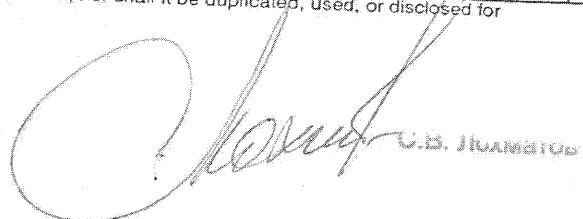
Rev.

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|----|--|--|---|
| 1 | TAG NO. | | |
| 2 | | U-XCV55013, 55023, 55033, 55043, 55053, 55063 | |
| 3 | QUANTITY | U-XCV55073, 55083, 55093, 55103, 55113, 55123 | |
| 4 | SERVICE | 12 | |
| 5 | MEDIUM COMPOSITION MOLECULAR WEIGHT | PROVIDING PURGE | |
| 6 | AMBIENT TEMPERATURE MIN. / MAX. | HYDROGEN / H ₂ / 2,02 | |
| 7 | MINIMUM DESIGN METAL TEMPERATURE | - 46 / + 36 °C ACTUATOR POSITIONER LIMIT SW (note 1) | ① |
| 8 | OPERATING TEMPERATURE MIN. / MAX. | -34 °C FOR VALVE BODY AND SEALS | ① |
| 9 | OPERATING FLOW COND. 1 / 2 / 3 | 38,0 / 43,0 °C | |
| 10 | PRESSURE UPSTREAM COND. 1 / 2 / 3 | 2082 / xxx / 6940 Nm ³ /h | |
| 11 | DP COND. 1 / 2 / 3 | 4,1 / xxx / 1,95 kg/cm ² g | |
| 12 | DP IN CLOSED POSITION | 3,75 / xxx / 1,6 kg/cm ² | |
| 13 | REQUIRED C _v COND. 1 / 2 / 3 | 20,0 kg/cm ² | |
| 14 | VALVE BODY SIZE RATING STYLE | 8,3 / xxx / 57,2 (REDUCED TRIM) | |
| 15 | SELECTED CV CHARACTERISTIC | DN 80 / 300 lbs / FLANGED | ① |
| 16 | BODY MATERIAL | TRIM 2,00 CV 78 / 82 / EQUAL PERCENTAGE | |
| 17 | FLANGE RATING FLANGE FACE FINISH | ASTM A 352 LCC (-34°C) | ① |
| 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 / BY MFR | |
| 20 | VALVE CYCLIC SERVICE UNI / BI-DIRECTIONAL | PSA HIGH CYCLING DUTY | |
| 21 | VALVE INITIAL CONTROL POSITION | BI-DIRECTIONAL | |
| 22 | FLOW OVER / UNDER PLUG | 0 - 25% | |
| 23 | SHAFT PACKING TYPE MATERIAL | HEADER OVER PLUG | |
| 24 | PLUG AND SHAFT MATERIAL | STANDARD TWIN V-RINGS PTFE | |
| 25 | SEAT TYPE MATERIAL | 316 STAINLESS STEEL | |
| 26 | LEAKAGE RATE (CLASS TO ANSI/FCI-70-2) | SOFT PTFE | |
| 27 | ACTUATOR TYPE / MOUNTING POSITION | CLASS VI BUBBLE TIGHT | |
| 28 | ACTUATOR SIZE / AIR CONNECTION SIZE | PISTON, SPRING RETURN / TOP MOUNTED | |
| 29 | ACTUATOR ACTION | 50 SQIN | ① |
| 30 | AIR SUPPLY PRESSURE MIN. / NORM. / MAX. kg/cm ² g | AIR TO OPEN | |
| 31 | SPRING TYPE ACTION | 3,5 / 4,5 / 6,0 kg/cm ² g | |
| 32 | NUMBER OF CYCLES PER YEAR | DUAL SPRING/ SPRING TO CLOSE | ① |
| 33 | VALVE DUTY ON/OFF or CONTROL | + / - 100000 | |
| 34 | VALVE POSITIONER MODEL | HIGH CYCLE DUTY / CONTROL | |
| 35 | POSITIONER TYPE | METSO, SMART ND822, EEx ia IIC T6 | ① |
| 36 | CALIBRATED RANGE | SMART ELECTRO / PNEUMATIC | |
| 37 | AIR SUPPLY PRESSURE / AIR CONNECTION | 4 - 20 mA | |
| 38 | AIR FILTER / REGULATOR | 4,5 kg/cm ² g / 1/4" NPTF | ① |
| 39 | BOOSTER | NOT REQUIRED | |
| 40 | PROXIMITY SWITCH / POSITION | SMC Low temperature | ① |
| 41 | TRAVEL STOP | INCORPORATED IN POSITIONER EEx ia IIC T6 | ① |
| 42 | TUBING & FITTING MATERIAL / SIZE | STANDARD | |
| 43 | VALVE SUPPLIER | FOR TUBE AND FITTINGS REFER TO E-H6279-241T | |
| 44 | VALVE TYPE NO | FLOWERVE | ① |
| 45 | REMARKS : | VALTEK MARK ONE ND822 / -XT 1-AL | ① |
| 46 | | | |
| 47 | | note 1: Electrical Certificate for -40°C. Functional operation shall be guaranteed for -46°C ambient | |

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