# CONTROL VALVE SPECIFICATIONS

DRESSER
**Masoneilan**

Item No. 8- 2

Customer THE PEOPLE'S REPUBLIC OF CHINA
THE PEOPLE'S REPUBLIC OF CHINA

Date 2011/03/22
Serial No. ME12A0084-20

Tag No. PV-5403-2

Quantity 1

## BODY

| | |
|---|---|
| Model No. | 51-75683 |
| Body Type | ANGLE |
| Rating | ASME CLASS 1500 |
| End Connection | LARGE FEMALE |
| Flange Face Finish | AS PER STANDARD |
| Bonnet Type | STANDARD |
| Body Size | In. 10" Out. 20" |
| Trim Size | 6" |
| Trim Form | SINGLE |
| Characteristic | LINEAR |
| Rated Cv * | 700 |
| Leakage Spec. | CLASS 4 |

## MATERIAL

| | |
|---|---|
| Body | A494 Gr.CW-2M |
| Plug | Titanium Gr 5 |
| Seat Ring | Titanium Gr 5 |
| Retainer or Cage | - |
| Guide Bushing | Titanium Gr 5 |
| Stem | Titanium Gr 5 |
| Gasket | T#1838R-GR-TTE |
| Gland Packing | P#SS10CL/P#SS2UR |
| Gland Crimp | - |
| Seal Ring | - |

## ACTUATOR

| | |
|---|---|
| Conical Spring | - |
| Flow to | OPEN |
| Signal Increase to | - |
| Fail Position | CLOSE |
| Actuator Type | CYLINDER |
| Size | #32 |
| Spring Range | - |
| Supply Pressure | 4.5 kgf/cm2 |
| Rated Travel | 88.9mm (3-1/2") |
| Handwheel | D(SIDE) |

## POSITIONER

| | |
|---|---|
| Positioner Type | FOUNDATION FIELDBUS |
| Model No. | SEE BELOW |
| Input Signal Open | 100 % |
| Input Signal Close | 0 % |
| Elec.Conn. | 1/2"NPT |
| Elec.Class | II2G EEx d IIC T5 |
| Model | - |

## TRANSDUCER

| | |
|---|---|
| In./Out.Signal | - |
| Elec.Conn. | - |
| Elec.Class | - |
| Air Set | - |
| Mounting | - |

## ACCESS.

| | |
|---|---|
| Lube/Isol.Valve | Yes |
| Grease No. | CLIMAX #400 |
| Travel Stopper | - |
| ☐Max ☐Min | - |

## ACCESSORIES

| | |
|---|---|
| Air Set | 78-40 x 1 |
| | 78-40 W/GAUGE x 1 |
| Booster Relay | BR200 x 2 |
| Transfer Valve or Lock Up Valve | 78-80S x 1 |
| Set Press. | 4.5 kgf/cm2 |
| Volume Tank | 0.3m3 (80gal.) x 1 |
| Air Set | ARU3A-0415NG4510 W/G x 1 |

### Solenoid Valve

| | |
|---|---|
| Model No. | - |
| Energized | - |
| De-Energized | - |
| Manual Reset | - |
| Terminal Box | - |
| Elec.Supply | - |
| Elec.Conn. | - |
| Elec.Class | - |

### Limit Switch

| | |
|---|---|
| Model No. | 496-257 x 1 |
| Position | Close x 1 Open x 1 |
| Elec.Conn. | 3/4"NPT |
| Elec.Class | II2GD Ex d IIC T6 |

## OTHERS

### Air Piping

| | |
|---|---|
| Sig./Supply | - /1/2"NPT |
| Tube Mat'l | 316L ST.ST.TUBE |
| Fittings | DOUBLE-FERRULES |

### Copr

| | |
|---|---|
| Body | - |
| Yoke | RED |
| Act'r Case | RED |
| Handwheel | RED |

| | |
|---|---|
| Fluid | PT1 |
| Case | MAX |

## SERVICE CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Flow Rate | kg/h | 951991 | | | |
| In.Press. | kgf/cm2G | 85 | | | |
| Out.Press. | kgf/cm2G | 50 | | | |
| Diff.Press | kgf/cm2 | 35 | | | |
| Temp. | °C | 285 | | | |
| Density | (Sp.Gr.) | 0.833 | | | |
| Calculated Cv | | 247 | | | |
| Cv%/Signal% | | 35 / 34 | / | / | |
| Predicted SPL (dBA) | | | | | |
| Shutoff Pr. | kgf/cm2G | P1 115 | P2 - 0 | | |
| Des.Press. | kgf/cm2G | 120 | | | |
| Des.Temp. | °C | - | Max 285 | | |

Note

+ ·Body Angle : 135 deg.
+ ·With Flushing Connection : 1/2" ASME Class 1500 LF (GLAND & PORT)
* ·Positioner is supplied by Customer
= ·Volume Tank is supplied by Costomer
- ·Max. Shut-off Pressure = 115 kgf/cm2