

Sr.No.	Description	Quantity Required (Nos.)
1	2	3
1	<p>High performance Butterfly Capacity Control Valve with Manual Hand Wheel</p> <p>CCV-CM202, High Performance Butterfly control valve with manual Hand Wheel, Valve Size: 18", Flange Rating 300, With spring return pneumatic diaphragm actuator, Fail safe =Open, Electronic positioner 4-20mA DC input, pressure regulator, maximum supply 6Bar, minimum supply 4Bar. Face to Face distance 150mm, Flow rate:235000 Kg/Hr.</p>	1
2	<p>Double acting ON/OFF globe valve with cylinder type pneumatic Actuator</p> <p>E3-TR207, Double acting ON/OFF globe valve with pneumatic cylinder type actuator, Valve Size 6" #150,RF flanged, Flange to Flange distance 407mm, Solenoid supply 24 VDC, Protection class EE x d IIC T4. Air Pressure Regulator, supply 8 Bar Out put 4Bar. Flow Rate: 80320 Kg/min</p>	1
Detailed Specification are attached on separate sheets.		

SPECIFICATION FOR HIGH PERFORMANCE BUTTERFLY CONTROL VALVE

CONTROL VALVE:

QUANTITY: 01

P23/4

BODY SPECIFICATION

BUTTERFLY : HIGH PERFORMANCE, SS316L
SIZE : 18"x18"
RATING : ANSI 300
CONN : WAFER (SMOOTH)
TRIM FORM : CONCENTRIC
CHARACT : THROTTLING
BONNET : ST'D (DUST/SAND PROOF)
ACTION : AIR TO CLOSE / AIR FAIL OPEN
BODY TRIM : SUS316L
SHAFT : SS316L
BEARING : PTFE
LEAKAGE CLASS: TIGHT ANSI IV-V
SEAT : METAL SEATED (SUS316L)
SEAT & SEAL MATERIAL: STAINLESS STEEL SEAT,
GRAPHITE SEAL

FACE TO FACE DISTANCE (BODY WIDTH) = 150mm

ACTUATOR SPECIFICATION

MODEL : PNEUMATIC DIAPHRAGM SPRING RETURN
MIN. SUPPLY PRESSURE: 60PSIG (4.0Bar)
MAXIMUM DIAPHRAGM PRESSURE: 120PSIG (6Bar)
HAND WHEEL: WITH MANUAL HAND WHEEL

ACCESSORIES

AIR SET : SS TUBES
POSITIONER: ELETRO PNEUMATIC TYPE, INPUT 4-20 mA DC
(EExd ia IIC T4)

AIR REGULATOR WITH FILTER (INTEGRAL)

MAX. WORKING PRESSURE: 10 Bar
SET PRESSURE RANGE: 0.5 - 6.0 Bar
INLET/ OUTLET CONNECTION: 1/4" NPT
FILTER ELEMENT: BRASS
FILTER BOWL: METALLIC
DRAIN: MANUAL

ACCESSORIES

PRESSURE GAUGE
MOUNTING BRACKET

FLUID SPECIFICATION

FLUID : HUMID GAS

Ambient Temp. 0-55 °C

UNIT

NORMAL

MAXIMUM

FLOW RATE Kg/hour

230000

260000

TEMP. °C

30.00

50.00

Sp. Gr.

31.33

34.380

- Note:**
1. All wetted part must compliance with NACE MR-01-03
 2. Technical literature, maintenance & installation manuals are required in English.
 3. Recommended maintenance schedule [Preventive (PM), Predictive (PDM,)] by vendor in English is required.
 4. Material test certificate, pressure test certificate of valve body at 40 Bar and warranty Certificate is required.
 5. C&F value may also be mentioned in quotation.

BODY SPECIFICATION

Flange SIZE : 6" x 6"
RATING : ANSI 150
CONN : RF (SMOOTH)
TRIM FORM : UN- BALANCE
CHARACT : ON/OFF
BONNET : ST'D (DUST/SAND PROOF)
ACTION : AIR TO Open / **AIR FAIL STAY AT EXISTING POSITION.**
BODY TRIM : SUS316
TRIM T. : H. Cr PLATED
SEAT & Plug : SUS316
PACKING : GLAND (Graphite)
FLANGE TO 407 MM
FLANGE DISTANCE:

ACTUATOR SPECIFICATION

MODEL : DOUBLE ACTING CYLINDER TYPE PNEUMATIC ACTUATOR.
ACTION : DOUBLE ACTING (PRES. TO STEM, U³)
RE.ACT : 4.0(2~6) Kgf/cm²
Type : GLOBE

ACCESSORIES

AIR SET : SS316
Solenoid : ELECT. PNEUMATIC DOUBLE ACTING, WITH 24 VDC SUPPLY
Protection Class: EExd ia IIC T4

AIR REGULATOR WITH FILTER (INTEGRAL)

MAX. WORKING PRESSURE: 10 Bar
SET PRESSURE RANGE: 0.5 - 6.0 Bar
INLET/ OUTLET CONNECTION: 1/4" NPT
FILTER ELEMENT: BRASS
FILTER BOWL: METALLIC
DRAIN: MANUAL

ACCESSORIES

PRESSURE GAUGE
MOUNTING BRACKET

FLUID SPECIFICATION

FLUID : **Steam**

Ambient Temp. 0-55 °C

	UNIT	NORMAL	MAXIMUM
FLOW RATE	Kg/min	80	200
TEMP.	°C	160.00	200.00
PRESSURE	Kg/cm ²	4	6

Note:

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- Material test certificate, pressure test certificate of valve body at 40 Bar and warranty Certificate is required.
- All wetted part must compliance with NACE MR-01-03
- Recommended maintenance schedule [Preventive (PM), Predictive (PDM,)] by vendor in English is required.
- Technical literature, maintenance & installation manuals are required In English.