

Concentric Split Diaphragm Control Valve also called Iris Type Valve



YUTECH

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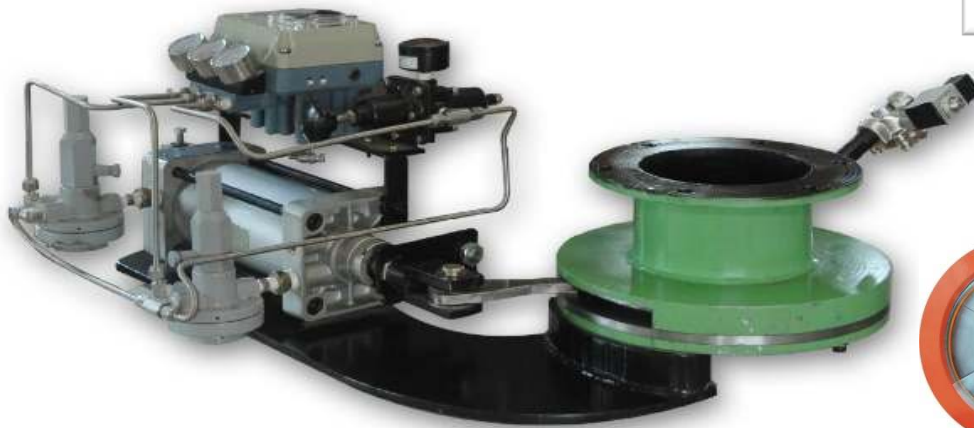
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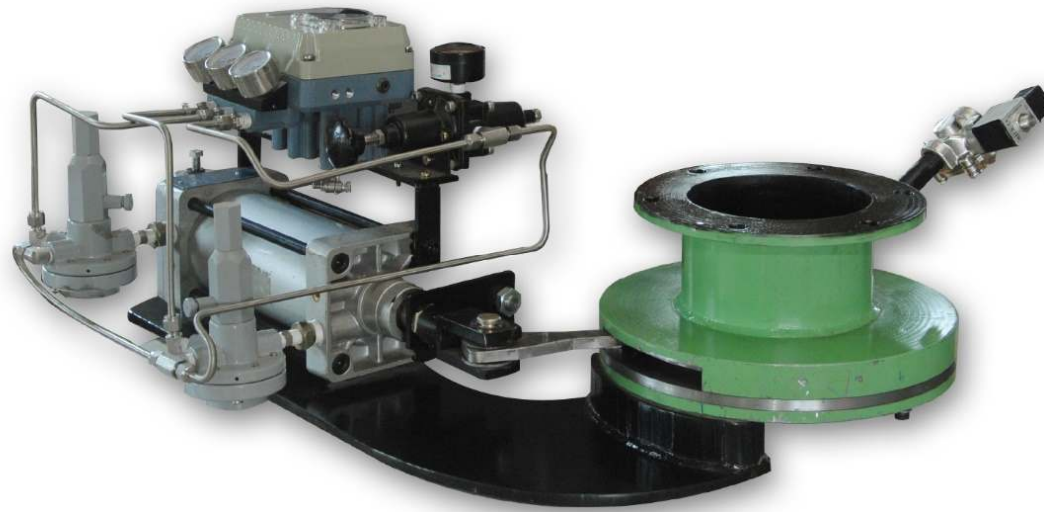


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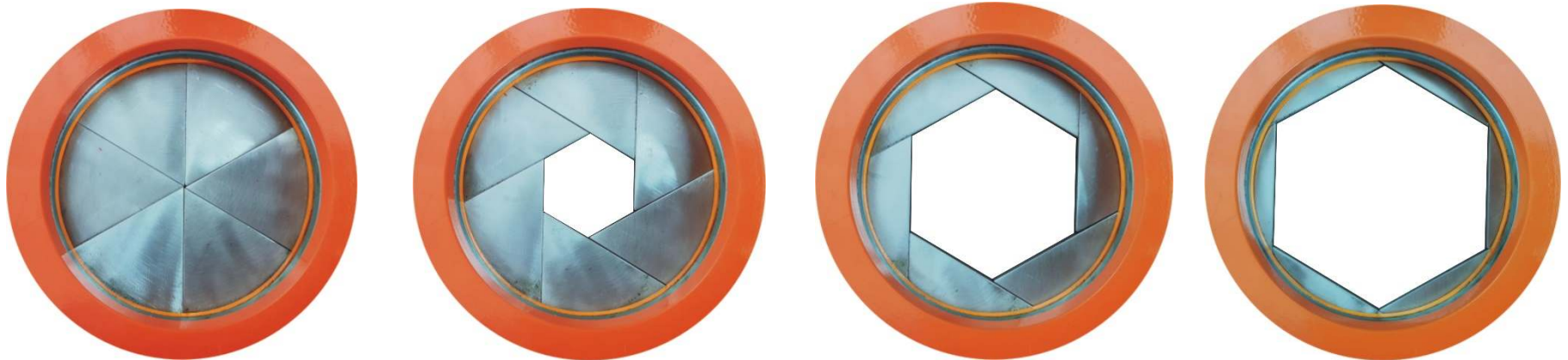


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Concentric Split Diaphragm Control Valve also called Iris Type Valve: Product Code: CV-IR-1005-6-EP



Concentric Opening of Split Diaphragm Controlled by Electro-Pneumatic Positioner



Concentric Split Diaphragm Control Valve



FACTS:

- Rugged Build Quality for Long Life.
- Heavy Duty Rugged Valve Construction absorbs all shocks and Vibrations.
- Valve Internals are of Heavy Gauge SS Construction and designed to operate under heavy Masecuite loads without bending or deformation.
- Precise Flow Control due to Concentric Opening of Split Diaphragm (similar to a camera aperture).
- Energy saving whilst Flow Control due to Free Passage through Concentric Opening
- Low-noise due to Easy Passage
- Maintenance free
- Pneumatic Actuation with Electro-Pneumatic Positioner for smooth Linear Control Action
- Operating Air Pressure 2 – 7 Kg/cm²
- Input 4-20mA from any external source

Concentric Split Diaphragm Control Valve



FACTS:

Pneumatic Actuation:

- Pneumatic Actuation with Electro-Pneumatic Positioner for smooth Linear Control Action
- Operating Air Pressure 2 – 7 Kg/cm²
- Input 4-20mA from any external source

Electric Motorized Actuation:

- Electric Actuator Geared AC Induction Motor
- Operating Voltage: Single Phase 110 VAC 60Hz / 230 VAC 50 Hz or Three Phase 440 VAC 50 / 60Hz
- Input 4-20mA from any external source or Push Buttons

Hand Wheel:

- Geared Hand-Wheel

Hand Lever:

- Hand Level Operated

Concentric Split Diaphragm Control Valve



Applications:

Flow Control of:

- Sugar Syrups, Masecutes and Solutions
- Various types of Slurries
- Various types of Viscous Fluids and Free Flowing Materials
- Wastewaters from Municipalities and Industries
- Paper Pulp and Fluids with Fibrous Suspensions
- Lime (CaOH) Slurry / Cement Slurry

Other Applications:

- Controlled Gravity Flow of Grains or Pellets or Powders with a particle size between 0.5 mm and 10 mm
- Ideal for Controlling Gravity Flow Control of Flow of Slurries / Semi Solids Concrete and other Fluids
- Ideal for Ratio Control of Two or More Ingredients falling in a Vessel

Concentric Split Diaphragm Control Valve Specifications:



Valve Type	: Concentric Split Diaphragm Type Central Opening Valve with Camera Aperture like Action
Sizes	: 2" (50mm) 3" (75mm) / 4" (100mm) / 6" (150mm) / 8" (200mm) / 10" (250mm)
Body material	: MS Fabricated / Other Material on Request
Valve Internals	: SS 410 / 304 / 316L - On request
Bearings and wedges material	: SS
Sheathing	: PTFE / PU
Actuation	: Pneumatic Linear / Electric - Motorized / Hand - Wheel
Actuator Stroke	: As per Valve Size
Positioner	: Electro-Pneumatic / Electronic
Position Feedback (Optional)	: 4 – 20 mA / 0 – 5 VDC
Input (for Actuated Valves only)	: 4 – 20 mA from any external source Or Push Buttons for Open and Close

Concentric Split Diaphragm Valve

Product Code:



Description

Concentric Split Diaphragm Control Valve:
With Pneumatic Actuation and Electro-
Pneumatic Positioner

Concentric Split Diaphragm Control Valve:
With Pneumatic Actuation with Push
Buttons for Open and Close

Concentric Split Diaphragm Control Valve:
With Electric Motorized Actuation with
Motor Position Controller

Concentric Split Diaphragm Control Valve:
With Electric Motorized Actuation with
Push Buttons for Open and Close

Concentric Split Diaphragm Control Valve:
With Hand Wheel for Open and Close

Product Code (PC)

CCV-1005-3-PN-EP
CCV-1005-4-PN-EP
CCV-1005-6-PN-EP
CCV-1005-8-PN-EP
CCV-1005-10-PN-EP
CCV-1005-3-PN-PB
CCV-1005-4-PN-PB
CCV-1005-6-PN-PB
CCV-1005-8-PN-PB
CCV-1005-10-PN-PB
CCV-1005-3-EM-MPC-XX
CCV-1005-4-EM-MPC-XX
CCV-1005-6-EM-MPC-XX
CCV-1005-8-EM-MPC-XX
CCV-1005-10-EM-MPC-XX
CCV-1005-3-EM-PB-XX
CCV-1005-4-EM-PB-XX
CCV-1005-6-EM-PB-XX
CCV-1005-8-EM-PB-XX
CCV-1005-10-EM-PB-XX
CCV-1005-3-HW
CCV-1005-4-HW
CCV-1005-6-HW
CCV-1005-8-HW
CCV-1005-10-HW

De-Codification

CCV: Concentric Split Diaphragm Control Valve

1005: Model Number

Valve Opening Size: 2 / 3 / 4 / 6 / 8 / 10 (use this number for size in PC)

PN: Pneumatically Actuated

EP: Electro Pneumatic Positioner (4-20mA Input)

EM: Electric Motorized Actuator. XX is the space for suffix.

Always use suffix 1P or 3P in place of XX to specify single or three phase motor, for example Model CCV-1005-3-EM-MPC-XX can be ordered as:

CCV-1005-3-EM-MPC-1P will mean Single Phase Motor Drive Actuator

CCV-1005-3-EM-MPC-3P will mean Three Phase Motor Drive Actuator

MPC: Motor Position Controller (4-20mA Input)

PB: Push Buttons for Open and Close

HW: Hand Wheel

Concentric Split Diaphragm Control Valve

Control Application Example:



Concentric Split Diaphragm Control Valve for Continuous Centrifugal Machine Automation in a Sugar Factory:

Control of Sugar Masecuite Intake into the Continuous Centrifugal Machine.

Sugar Masecuite is a very thick Slurry formed of Sugar Crystals and Molasses and is very Sticky and Viscous Mass.

IRIS Type Valve provides perfect solution for dropping Sugar Masecuite into Centrifugal Machine as the Masecuite falls in the center of the Machine, it thus avoids spilling and splattering and so facilitating a perfect Machine Operation.

Concentric Split Diaphragm Pneumatic Control Valve for Continuous Centrifugal Machine Automation:



Controlled Quantity of Masseccite drops
from the Concentric Opening (Split
opening from the Centre of the Valve)
Hence No Spilling or Splattering

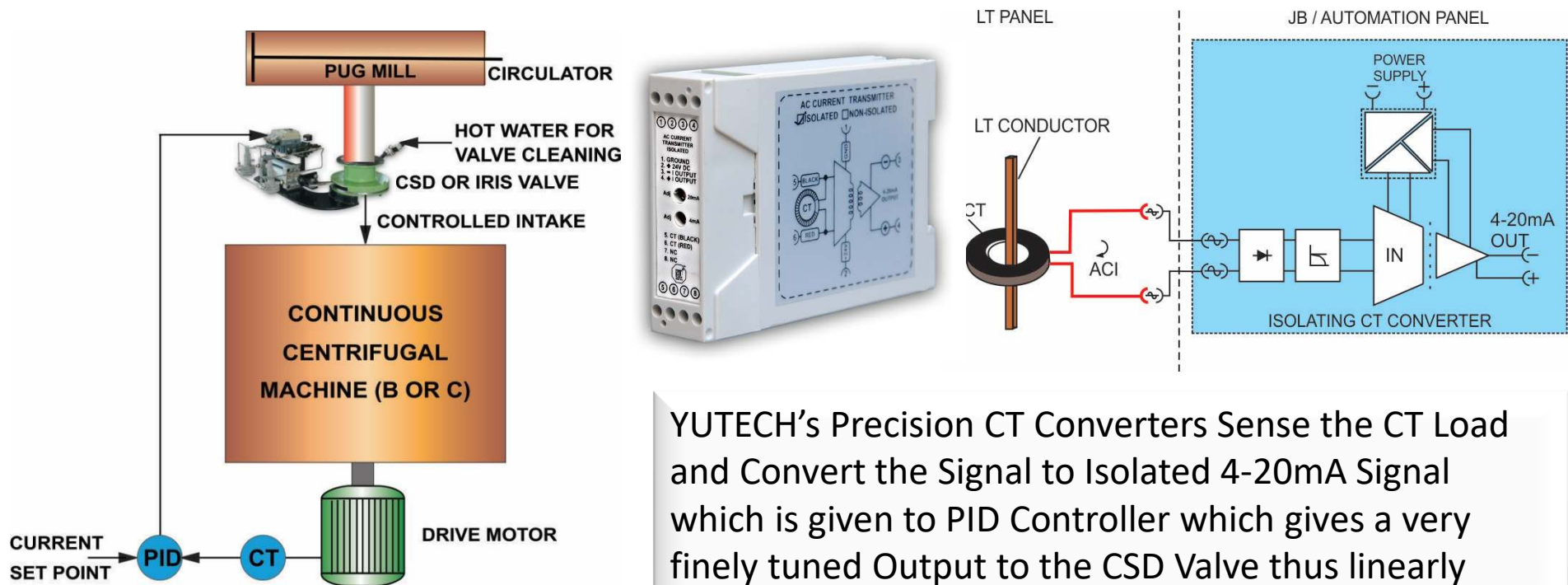
Typical Concentric Opening Split
Diaphragm
Pneumatic Control Valve
Installation



Concentric Split Diaphragm Pneumatic Control Valve for Continuous Centrifugal Machine Automation:

Continuous Centrifugal Machine's Drive Motor Current Load is sensed.

The Current is maintained by taking exact amount of Feed by Controlling the CSD Valve opening in a PID Loop.



YUTECH's Precision CT Converters Sense the CT Load and Convert the Signal to Isolated 4-20mA Signal which is given to PID Controller which gives a very finely tuned Output to the CSD Valve thus linearly controlling the Masecuite Intake to Centrifuge.

YUTECH Products:



- **RPM Transmitters and Indicators for All Types of Drives**
- **Brix Analyzers**
- **Conductivity Analyzers**
- **pH Analyzers**
- **Draft Range Pressure Transmitters**
- **Vacuum Transmitters**
- **Draft Range Negative & Positive Composite Pressure Transmitters**
- **Iris Type Control Valve**
- **3 Way Valve for Bypass / Mixing**
- **Butterfly Type Control Valves**
- **Automated Gate / Sluice / Pulp Valves**
- **RTD Temperature Transmitters (Head Mounted and Din Rail Mounted)**
- **Thermo-couple Temperature Transmitters**
- **Pneumatic Linear Position Controllers**
- **Large Over Dead Displays**
- **Universal Process Indicators**
- **Isolation Products**
- **Modbus I / O Cards**

THANK YOU!
For your Time and Presence



SAVE FUEL
REDUCE CARBON FOOTPRINT
MAKE THE WORLD GREENER
AND YET, MAKE MONEY