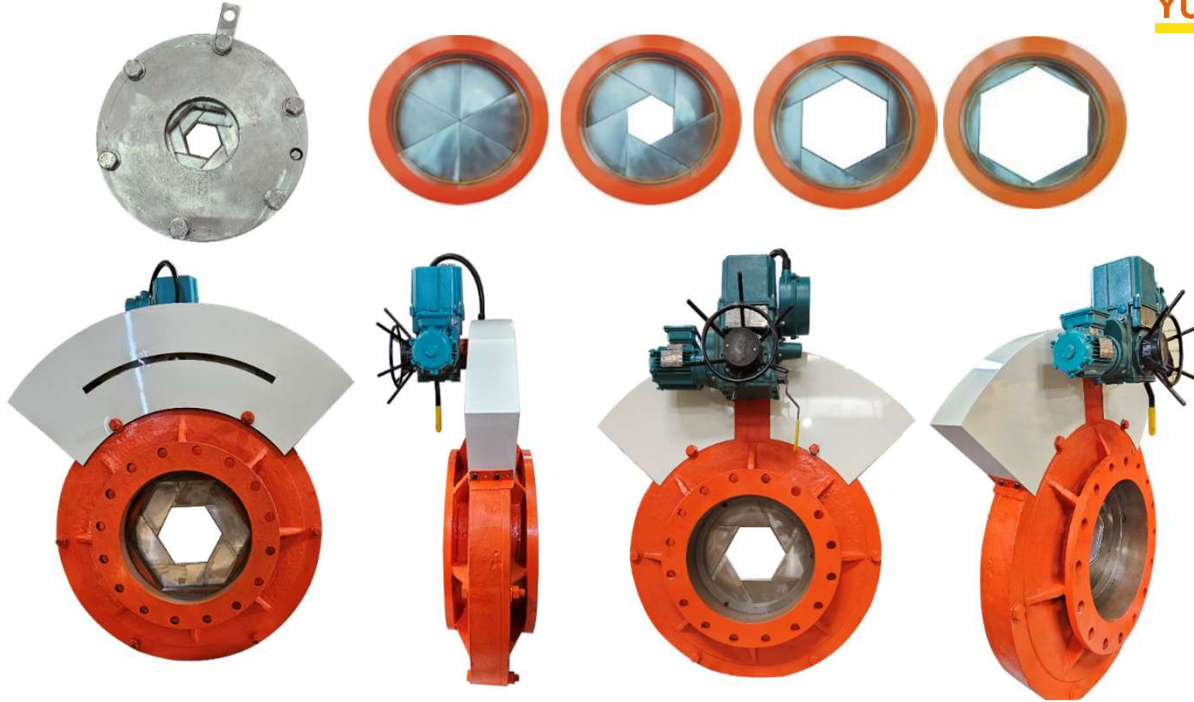


IRIS VALVE OR CONCENTRIC SPLIT DIAPHRAGM (CSD) VALVE ELECTRIC, OR PNEUMATIC ACTUATION WITH POSITIONER



CONCENTRIC SPLIT DIAPHRAGM VALVE OPENS THROUGH THE CENTRE



CSD CONTROL VALVE (450mm / 18"), WITH MOTORIZED 3-PHASE ELECTRIC ACTUATOR



PNEUMATICALLY ACTUATED IRIS VALVE WITH ELECTRO-PNEUMATIC POSITIONER

FLOW CONTROL APPLICATIONS:

SUGAR INDUSTRY: SUGAR SYRUPS, MOLASSES, MASSECUITES, LIME (CAOH) SLURRY, ETC.

PHARMA AND CHEMICAL: SLURRIES, MULTIPLE KINDS OF VISCOUS FLUIDS, AND FREE-FLOWING MATERIALS OR POWDERS OR GRANULES

WASTEWATER TREATMENT PLANTS: WASTEWATER FROM MUNICIPALITIES AND INDUSTRIES, AIR FLOW REGULATION FOR AERATION CONTROL APPLICATION

PULP AND PAPER INDUSTRY: PAPER PULP AND FLUIDS WITH FIBROUS SUSPENSIONS

FREE-FLOWING GRAIN, GRANULES OR PELLETS: SALT, POWDERS, GRAIN, POLYMER GRANULES WITH A PARTICLE SIZE BETWEEN 0.5mm AND 10mm

AIR AND GAS: INDUSTRIAL HOT AND COLD AIR, NON-CORROSIVE GASES

OTHER APPLICATIONS:

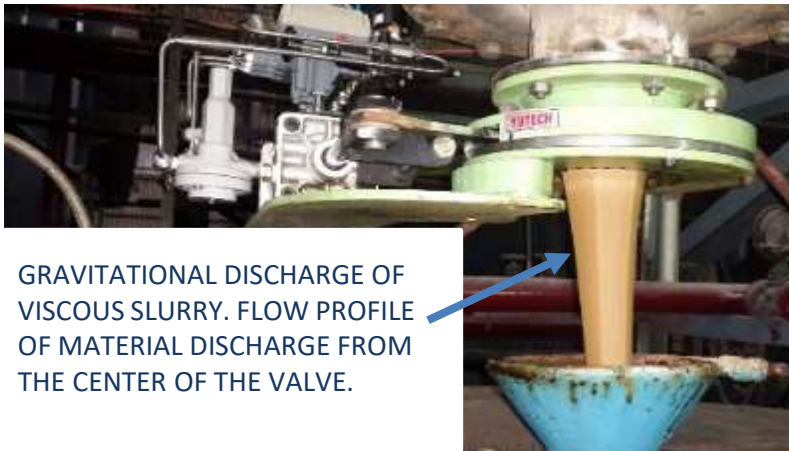
- CONTROLLED GRAVITY FLOW OF GRAINS OR PELLETS OR POWDERS WITH A PARTICLE SIZE BETWEEN 0.5 MM AND 10 MM IN ANY INDUSTRY OR GRAIN IRRADIATION FACILITY
- IDEAL FOR CONTROLLING GRAVITY FLOW CONTROL OF FLOW OF SLURRIES / SEMI-SOLIDS / CONCRETE AND OTHER FLUIDS
- IDEAL FOR RATIO CONTROL OF TWO OR MORE INGREDIENTS FALLING IN A VESSEL
- HOT AND COLD AIRFLOW CONTROL

IRIS VALVE OR CONCENTRIC SPLIT DIAPHRAGM VALVE



FLOW PROFILE OF CONCENTRIC SPLIT DIAPHRAGM VALVE:

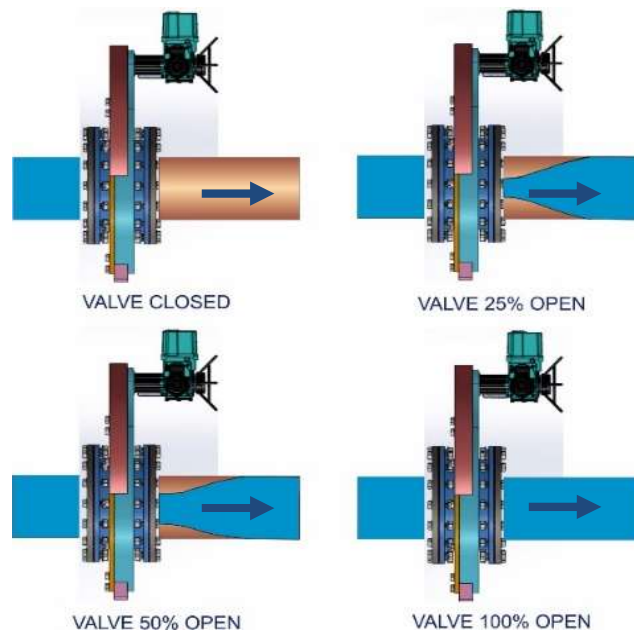
GRAVITY DISCHARGE INSTALLATION:



GRAVITATIONAL DISCHARGE OF VISCOUS SLURRY. FLOW PROFILE OF MATERIAL DISCHARGE FROM THE CENTER OF THE VALVE.

GRAVITY DISCHARGE INSTALLATION IS USED FOR SUGAR MASSECUTE FLOW CONTROL FOR LOW GRADE SUGAR BASKET FEED CONTROL USING CSD OR IRIS VALVE. THIS ELIMINATES BASKET UNBALANCE, IMPROVES PURGING, STABILIZES DRIVE LOADS, ELIMINATES OVERFLOWS AND GENERATES IMMENSE PROFITS.

INLINE INSTALLATION: THE FLOW PROFILE THROUGH THE SPLIT DIAPHRAGM'S CENTER, MINIMIZES PRESSURE DROP, NOISE, AND FLOW TURBULENCE THROUGHOUT THE ENTIRE FLOW REGULATION RANGE



IRIS VALVE INLINE FLOW PROFILE

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
- HOT AND COLD AIRFLOW CONTROL

CHARACTERISTICS AND ADVANTAGES OF IRIS OR CSD VALVE:

- RUGGED BUILD QUALITY FOR LONG LIFE AND FREQUENT THROTTLING AND ON / OFF OPERATIONS.
- HEAVY-DUTY RUGGED VALVE CONSTRUCTION ABSORBS ALL SHOCKS AND VIBRATIONS.
- VALVE INTERNALS DESIGNED TO OPERATE UNDER HEAVY MEDIA LOADS.
- VERY LOW MAINTENANCE.
- PRECISE FLOW CONTROL WITHOUT HYSTERESIS DUE TO THE CONCENTRIC OPENING OF THE SPLIT DIAPHRAGM.
- LOW NOISE AND LOW FLOW TURBULENCE THROUGHOUT THE FULL FLOW CONTROL RANGE.
- HIGH FLOW CAPACITY
- LOWER PRESSURE DROP THAN OTHER VALVE TYPES DUE TO FREE PASSAGE THROUGH CONCENTRIC OPENING.
- REDUCED PRESSURE DROP ALLOWS LOWER POWER PUMP DRIVES, THUS, ENERGY SAVING, WHILE FLOW CONTROL DUE TO FREE PASSAGE THROUGH CONCENTRIC OPENING.

VALVE CONTROLLER WITH THE FOLLOWING FEATURES:

COMMON FEATURES FOR PNEUMATIC AND ELECTRIC ACTUATOR CONTROL PANEL:

- PID CONTROL ACTION FOR FLOW CONTROL
- REMOTE SET VARIABLE FACILITY FOR FLOW CONTROL AS PER ANOTHER PROCESS PARAMETER
- BUILT-IN AUTO-MANUAL STATION
- DCS INPUT FACILITY (4-20mA DCS CONTROL OUTPUT FOR VALVE CONTROL GIVEN THROUGH TOGGLE SWITCH. THIS AVOIDS THE NEED FOR AN ADDITIONAL JUNCTION BOX ON FIELD)
- OPTIONAL VALVE POSITION FEEDBACK AS 4-20mA

ADDITIONAL FEATURES FOR ELECTRIC ACTUATOR CONTROL PANEL:

- SINGLE OR 3-PHASE MOTOR ACTUATOR PANEL
- TIME-PROPORTIONATE PID OUTPUT FOLLOWING EITHER LOCAL PID ACTION OR REMOTE 4-20mA INPUT FROM A CENTRALIZED PLC / DCS SYSTEM
- BUILT-IN ACTUATOR PROTECTION MOTOR STALLING FUNCTION
- BUILT IN VALVE OPENING MINIMUM AND MAXIMUM RANGE SELECTION



3-PHASE ELECTRIC ACTUATOR CONTROL PANEL WITH BUILT-IN PID CONTROLLER



PROCESS AUTOMATION CONTROL PANEL WITH BUILT-IN PID CONTROLLER

IRIS VALVE OR CONCENTRIC SPLIT DIAPHRAGM VALVE



PNEUMATIC ACTUATION:

PRODUCT CODE: PNEUMATIC WITH ELECTRO-PNEUMATIC POSITIONER: PCAEPP

PNEUMATIC CYLINDER WITHOUT POSITIONER: PCA

PNEUMATIC CYLINDER 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:

PRODUCT CODE: 3-PHASE ELECTRIC: MEA3PEP OR, 1-PHASE ELECTRIC: MEA1PEP

ELECTRIC ACTUATOR GEARED AC INDUCTION MOTOR WITH ELECTRONIC POSITIONER

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 OPERATED

GEARED HAND-WHEEL: PRODUCT CODE: GHW

HAND LEVER: PRODUCT CODE: HLO

IRIS OR CSD VALVE PRODUCT CODE:

CSDV24S####. WHERE, ### IS THE 3-DIGIT VAVE SIZE IN mm.

E.G.: CSDV24S150 MEANS CSD OR IRIS VALVE OF 150mm INTERNAL DIAMETER OF THE VALVE OPENING.

IRIS VALVE WITH ELECTRIC ACTUATION: CSDV24S#### + MEA3P OR CSDV24S#### + MEA1P

IRIS VALVE WITH PNEUMATIC ACTUATION: CSDV24S#### + PCAEPP OR CSDV24S#### + PCA

IRIS VALVE WITH HAND ACTUATION: CSDV24S#### + GHW OR CSDV24S#### + HLO

IRIS OR CSD VALVE SPECIFICATIONS:

VALVE TYPE	: IRIS OR CONCENTRIC SPLIT DIAPHRAGM VALVE
ACTUATION	: PNEUMATIC, ELECTRIC, OR HAND OPERATED
SIZES	: 2" (50mm), 3" (75mm), 4" (100mm), 6" (150mm), 8" (200mm), 10" (250mm), 12" (300mm), 16" (400mm), 18" (450mm)
BODY MATERIAL	: STANDARD: MS FABRICATED ON REQUEST: SS 316L / SS 304 / LCB
PETAL SEGMENTS	: STANDARD: SS 304. ON REQUEST: SS 316L, DUPLEX STEEL 2205 / OTHER SPECIAL MATERIAL
BEARINGS AND WEDGES MATERIAL	: STANDARD: SS 304. ON REQUEST: SS 316L, DUPLEX STEEL 2205 / OTHER SPECIAL MATERIAL
SHEATHING	: PTFE / PU
ACTUATION	: PNEUMATIC LINEAR / ELECTRIC - MOTORIZED / HAND - WHEEL
ACTUATOR STROKE / TORQUE	: AS PER VALVE SIZE AND LINE PRESSURE
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
MEDIA TEMPERATURE AND PRESSURE	: -45 TO 160°C, 0-10Kg/cm ²

PLEASE VISIT OUR WEBSITE www.yutechautomation.com.

YU Technologies Pvt. Ltd.

HO & Works: B 8/5, MIDC, Miraj, 416 410, Distt: Sangli, Maharashtra, India.

T: +91 916 832 4851, +91 911 224 9727 / 8 / 9.

E: info@yutech.in; sale@yutech.in

W: www.yutech.in; www.yutechautomation.com

CHANNEL PARTNER: