

VALVE AUTOMATION



— GLOBE CONTROL VALVE

— V-NOTCH BALL VALVE

— BUTTERFLY VALVE

— KNIFE GATE VALVE

2 WAY/3 WAY GLOBE TYPE CONTROL VALVE

Globe valves have sphere-shaped bodies. Inside the valve, a baffle separates two halves. This internal structure creates a different flow path than ball valves and other rotary-type valves. Globe valves actuate in a linear movement.

Oil and gas producers use globe valves to control the flow, pressure and temperature of process fluid, water, or gas. Producers can control globe valves with mechanical, pneumatic, or electric power. Depending on the type, the valve can provide either on/off or throttling service.



-: Specifications :-

SIZE	15 MM TO 300 MM (1/2" TO 12")
BODY MOC	CAST STEEL, STAINLESS STEEL, MONEL, ALLOY 20, HASTALLOY B/C, PP, TEFLON
RATINGS	#150 TO #600 EQUIVALENTS IN BS10, DIN, IS, JIS
END CONNECTION	FLANGED, SCREWED, BUTT WELD, SOCKET WELD
TRIM MATERIAL	STAINLESS STEEL, ALLOY 20, MONEL, HASTALLOY B/C, STELLITED
FLOW CHARACTERISTICS	EQUAL PERCENTAGE, LINEAR, QUICK OPENING
ACTUATOR	PNEUMATIC SPRING RETURN DIAPHRAGM TYPE, DOUBLE ACTING PNEUMATIC CYLINDER SINGLE ACTING PNEUMATIC CYLINDER WITH SPRING

V-NOTCH BALL CONTROL VALVE

The V-Notch Ball Valve gives non-clogging, high capacity, straight through flow control of fluids containing pulp and paper stock or slurries and fluids containing suspended solids or fibrous materials.

V-Notch Ball Valve is quarter turn valve with a segment Ball. The V-Ball create a wedging and shearing effect prevent the dragging of stock or slurry between the ball and its seal.

The V- Notch Ball Valves are offered squared and clamped driven shaft plus ball shaft with splined connection designed for zero lost motion for highly accurate positioning and precise control.



-: Specifications :-

SIZE	15 MM TO 200 MM (1/2" TO 8")
BODY MOC	CAST STEEL ASTM A Gr. 216 WCB, STAINLESS STEEL ASTM A351 CF8 (SS-304) & CF8M (SS-316), MONEL, ALLOY 20, HASTALLOY
RATINGS	#150 TO #600 EQUIVALENTS IN BS10, DIN, IS, JIS
END CONNECTION	FLANGED TO ANSI B16.5 CLASS 300/600
BALL	STAINLESS STEEL AISI 316
STEM AND STEM NUT	STAINLESS STEEL AISI 316
BALL SEAT	REINFORCED PTFE
STEM SEALS	REINFORCED PTFE
BODY GASKET	PTFE
ANTISTATIC DEVICE	STAINLESS STEEL SS 316
PRESSURE TEMP. RATING	AS PER BS 5351 CLASS 300/600
BODY PRESSURE RATING	ANSI B16.5 CLASS 3000/600
LEAKAGE CLASS	AS PER ANSI B16.104 1976 TEFLON SEATING CLASS VI
ACTUATOR	PNEUMATIC ROTARY (RACK & PINION TYPE)

BUTTERFLY CONTROL VALVE

Globe valves have sphere-shaped bodies. Inside the valve, a baffle separates two halves. This internal structure creates a different flow path than ball valves and other rotary-type valves. Globe valves actuate in a linear movement.

Oil and gas producers use globe valves to control the flow, pressure and temperature of process fluid, water, or gas. Producers can control globe valves with mechanical, pneumatic, or electric power. Depending on the type, the valve can provide either on/off or throttling service.



-: Specifications :-

SIZE	50 MM TO 1200 MM (2" TO 48")
BODY MOC	CAST STEEL, STAINLESS STEEL, WCB
DISC	SS 304, SS 316, SS 316L, SS 317
SOFT SEATING	EPDM, PTFE, SILICON, VITON, GPTFE
STEM	AISI 410 / AISI 304 / AISI 316
STEM & SEALS	REPLACABLE NITRILE/EPDM (SILICON, VITON, TEFLON ON REQUEST)
RATINGS	#150 TO #600 EQUIVALENTS IN BS10, DIN, IS, JIS
END CONNECTION	WAFER TYPE
ACTUATOR	PNEUMATIC SPRING RETURN DIAPHRAGM, PNEUMATIC PISTON CYLINDER DOUBLE ACTING, SINGLE ACTING WITH SPRING, PNEUMATIC (ROTARY) RACK & PINION TYPE SINGLE ACTING WITH SPRING, DOUBLE ACTING

KNIFE GATE VALVE

Knife gate valves are designed mainly for on-off and isolation services in systems with high content of suspended solids. Knife gate valves are especially beneficial for handling slurry in addition to viscous, corrosive and abrasive media. The valves have a minimised pressure drop in fully open position, they are easy to actuate, they have a relatively low weight and are cost-effective.

Knife gate valves are designed to work in some of the harshest environments, typically having a sharpened blade to cut through heavy liquids.

They are especially useful in wastewater applications where corrosion is an important issue. So, in addition to the valve design optimised for slurry media, it is beneficial to have a knife made of acid-proof stainless steel as this makes it less susceptible to damages caused by corrosion and as a consequence it needs less frequent maintenance or even replacement.



-: Specifications :-

SIZE	50 MM TO 500 MM (2" TO 20")
BODY & END PIECE	CAST STEEL, STAINLESS STEEL, WCB
GATE	STAINLESS STEEL
SEAT	STAINLESS STEEL, METAL TO METAL
ACTUATOR	PNEUMATIC CYLINDER - DOUBLE ACTING, SINGLE ACTING WITH SPRING

VALVE ACCESSORIES

LIMIT SWITCH

Model No.	LS-300
Type	Potential Free DPDT Type
Contacts	(2 NO + 2 NC) Contacts
Current Rating	5 Amp
Cable Entry	1/2"
Enclosure	Aluminium



Model No.	-
Pnu. Conn.	1/4" BSP
Gauge	1.5" Dial (1 No.)
Body MOC	Poly Carbonate
Filter Size	25 Micron
Enclosure	Aluminium + PVC

AIR FILTER REGULATOR

SOLENOID VALVE (DOUBLE ACTING)

Model No.	5P-2M13N
Pnu. Conn.	1/4" BSP
Body MOC	Aluminium
Voltage	24 V DC
Ins. Class	
Man Override	Yes



Model No.	3PC2M13
Pnu. Conn.	1/4" BSP
Body MOC	Aluminium
Voltage	24 V DC
Ins. Class	
Man Override	Yes

SOLENOID VALVE (SINGLE ACTING)

AIR LOCK RELAY



AIR BOOSTER

Company Profile

Instruments & Systems was started in 1985 with view to provide automation solutions to sugar industries, where the automation was still in its nascent stage at that time.

In the year 2000, company decided to diversify in the manufacturing of control valves. Over the period time company has invested in various dies, molds and patterns of various valves and its components.

Computerized order processing and production quality control systems, latest manufacturing technique by using CAD/CAM, VMC/CNC machining and assembling systems, ensures high precision product completely interchangeable and suiting to aesthetic of modern times, yet economically produced.

The company has an engineering and technical expertise together with the facilities to address the diverse automation demands of the modern process industries standard, special and customized control valves are all available on demand for use in a wide range of applications and industries.

"As per Manufacturing and Quality Standards-CE/19408/1120 and ISO 9001:2015"



Instruments & Systems
Valve Automation & Control Technology

INSTRUMENTS & SYSTEMS

30 I & S Building
Mohabbewala Industrial Area
Dehradun (Uttarakhand) - 248 002

Email :
sales@instruments-systems.com
info@instruments-systems.com

Web:
www.instruments-systems.in

FOLLOW US ON :  

