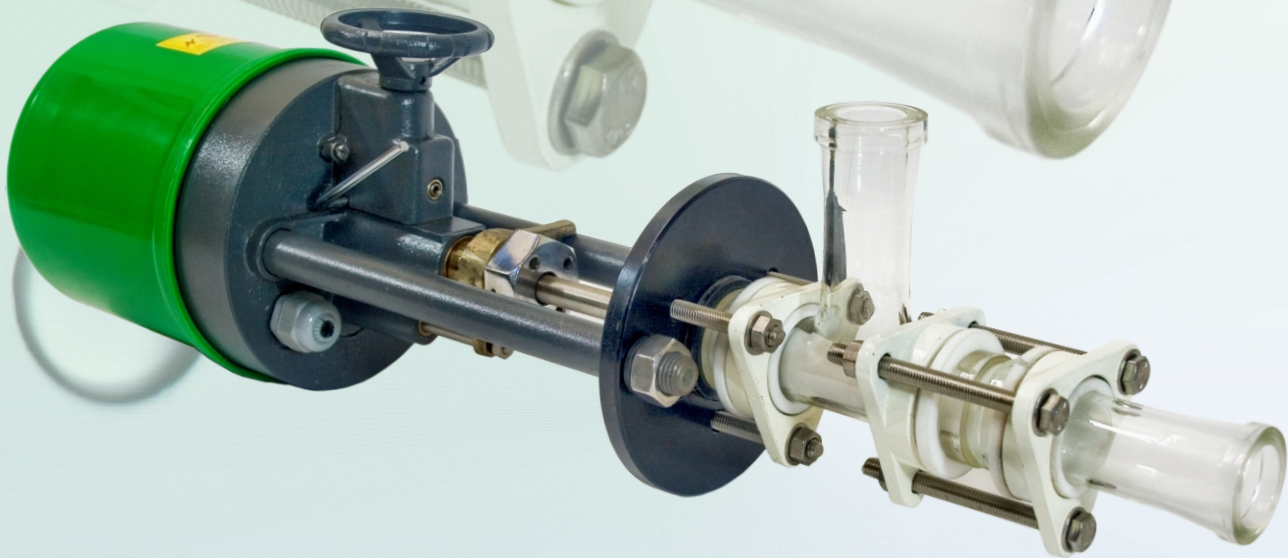




GERMAN TECHNOLOGY

# Motorized Glass Control Valves

**Application : Pickling Plant.  
Sector : Steel.**



'Marsh' introduces new range of Motorized Glass Valves for controlling flow of Acid in an Acid Regeneration Plant specially used in Pickling Plant to recycle waste Acid.



## THE PACKAGE MAINLY CONSISTS OF

- Glass Valve
- High Resolution Electrical Actuator
- Accessories

### ● Brief Description

Waste from pickling process which mainly consists of Hydrochloric Acid, Suspended Iron Particles & Water along with CNG and Air is feed to a reactor in controlled manner through motorized Glass Valve. This acid gets converted to gaseous form in the reactor which is again converted to acid in an absorption column.

The Glass Valve is made of Borosilicate glass and PTFE plugs. Glass Valve allows visual checking to monitor flow of acid and see that crystallization does not take place. The Valve has to be washed periodically with water to remove iron particles if any.



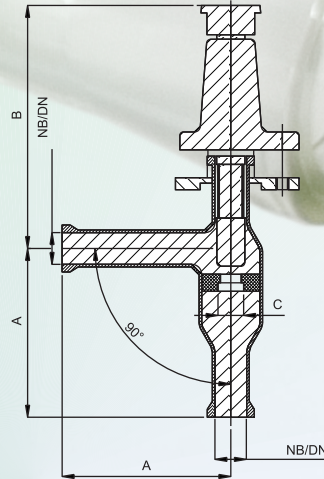
## Glass Valve Specification

Valve Size in NB	25, 40, 50
End Connections	Flanged
Material	Borosilicate Glass.
Plug	PTFE.
Max. Temperature	200°C.
Media	Hydrochloric Acid.
Valve Types	Straight Through Valves, Drain Valves, Angle Valves, Vent /Vacuum Valves, Bottom Outlet Valves etc.

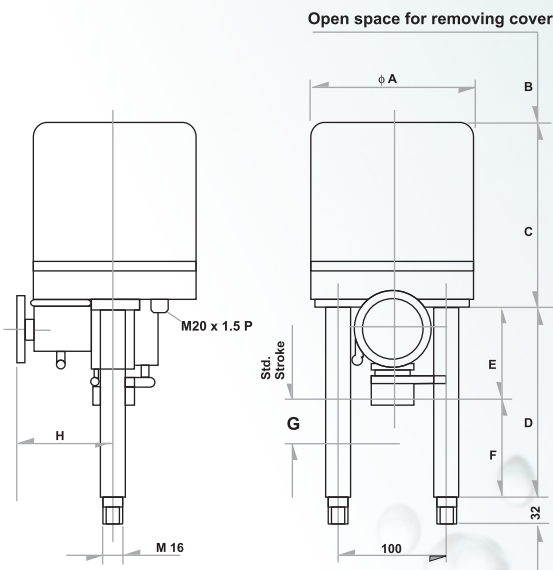
## Dimensional Drawing

A Typical Dimensional Details of an Angle Valve is shown below:

Valve Ref. No	NB / DN	A	B	C
RP 1	25	100	175	18
RP 1.5	40	150	200	26
RP 2	50	150	220	38



## Dimensional Drawing



## HIGH RESOLUTION ELECTRICAL ACTUATOR SPECIFICATION

Description	Specification of an Electrical Actuator	Standard Accessories
Model	ST 5102 - G	1. Travel Limit Switches
Glass Valve - Size NB	25, 40, 50	1NO+1NC – 2 Nos.
Operation time in sec	18 – 20 approx.	2. Hand Wheel for Manual Operation
Linear Speed mm/sec	0.26 / 0.52	3. Local Position Indicator
Rated Thrust Kg's	200	
Maximum Closing Thrust in Kg's	350	
Degree Of Protection	IP – 55 / 65	<b>Optional Accessories</b>
Switching frequency Short Time / Normal	7000 / 1800	Auxiliary Switches
Input Signal	4-20 mA, 230 / 110 VAC relay signal	Space Heater
Motor Type	Non blocking - Step Synchronous Motor	Feedback Potentiometer
Supply Voltage V AC	220 / 110	2/4 Wire Position Transmitter
Frequency	50 Hz	Digital Indicator
Motor Rating – Watts	4.7	Panel Mounted Positioner to accept 4-20mA / 0 – 10 V DC
Class of Insulation	F	

## Dimensional Details

Model	Dimensions							
	A	B	C	D	E	F	G	H
ST-5102-G	150	120	162	200	98	102	40	90



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