

# 2/2-Way Motorised Control Valves with Electric Actuator

DATA SHEET  
MV-5512A/B

For On-Off and Control Application  
(Motorised to Open or Motorised to Close Type)

## SPECIFICATIONS

Sizes	: 15 mm (1/2") to 150 mm (6").
Unified Flanges	: As per ANSI Cl. 150/300 and PN 16.
Pressure Rating	: As per ANSI Cl. 150, Cl. 300, PN 16 & PN 25.
Pressure Temp. Rating.:	: As per ASME B16.34.
Gland Packing	: Carbon filled Teflon for temp. Upto 220°C.
Design Standard	: ASME B16.34.
Leakage	: As per ANSI-FCI-70-2 Cl. IV(0.01% of Kv) for 5512A Series and Class VI-Bubble tight for 5512B Series.
Face to Face	: As per DIN-3202.Part I Series F1. (All materials)
Testing Standard	: ANSI-FCI-70-2.
Type of Plug	: On-Off, Equal percentage or Linear.
Seat	: Screwed type replaceable.
Body & Bonnet Material:	: CS-ASTM A 216 WCB (DIN 1.0619 GS-C 25). SS-ASTM A351CF8M (DIN1.4408) (GX6 Cr.Ni MO1810) SS-ASTM A351CF8(DIN1.4301) SG Iron-IS 1865 Grade SG 400/15A.
Plug Material	: SS AISI 420/316.
Seat Ring	: SS AISI 420/316.
Spindle	: 410/316 Ground, Burnished and Hard Chromed.
Studs	: ASTM A193 Gr. B7.
Hex. Nuts	: ASTM A194 Gr. 2H.
Body Packing	: Cr. Ni Foil coated with graphite.
Range ability	: Equal Percentage 30:1 Linear 50:1.
Fluid	: Air, Water, Steam, Gas, etc.
Note	: 5512A are Metal Seated Valves. 5512B are Soft Seated Valves.



Electric Motor	: Single phase, permanent split phase capacitor type class 'F' insulated motor.
Electric Supply	: 220/240, 110, 24 Volts 50/60Hz, AC.
Switching cycles	: Upto 240 cys per hour for small size valves and for large size valves refer to AVCON. (Switching cycles is meant for duration of less than 0.1 second).
Actuator Yoke	: Steel rods with position indicator assembly or Cast Carbon Steel casting.
Stem Tension	: Through Belleville packed spring.
Valve Position on	: Stay put
Failure of Electricity.	
Control Suitability	: Actuator is suitable for On-Off, Anticipatory, PI, PID Control system.

For further details of Actuator refer to Actuator leaflet  
'KN' series.

## ACTUATOR

Electric Actuator	: Series KN
Housing	: Aluminium Silicon alloy heat treated.
Gears	: Steel, hobbed, toughened gears.

## SPECIFICATION TABLE

Catalogue Number	Size	Orifice Size	Flow Factor Kv	Safe Working Pressure	Actuator				Stroke (Approx)	Travel time (Approx)
					KN 05	KN 07	KN 10	KN 25		
	(mm)	(mm)	M3/hr.	Bar	Working pressure (Bar)				mm	Secs.
5512A155 x KN 05	15	18	4.0	40	40	-	-	-	20	48
5512A205 x KN 05	20	22	6.3	40	40	-	-	-	20	49
5512A255 x KN 05	25	25	10	40	35	-	-	-	20	48
5512A405 x KN 05	40	40	25	40	20	-	-	-	20/30	48
5512A505 x KN 05/07	50	50	40	40	10	40	-	-	30	80
5512A655 x KN 07	65	65	63	40	-	30	-	-	30	80
5512A805 x KN 07/10	80	80	100	40	-	10	20	-	30	60
5512A1005 x KN 10/25	100	100	160	40	-	-	12	14	30	60
5512A1505 x KN 10/25	150	150	400	40	-	-	4	7	50	100

Note: (1) When used with letter 'B' means Soft Seated, e.g. 5512B505 - not suitable for temperature above 180°C  
(2) For higher working temperature, please refer to leaflet 5512A/WCBF.