

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

DATA SHEET  
MV-5512A/WCBF

For Thermic Fluid Application (On-Off and Control duty)

(Motorised to Open or Motorised to Closed Type.)

## SPECIFICATIONS

Sizes	: 15mm (½ ") to 150mm (6").
Unified Flanges	: As per ANSI Cl. 150 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 380°C with Cooling Finned Bonnet.
Design Standard	: ASME B16.34.
Leakage	: As per ANSI-FCI-70-2 Cl.IV (0.01% of Kv) for 5512A 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 A351 CF8M (DIN1.4408) (GX6 Cr.Ni MO1810) SS-ASTM A351 CF8(DIN1.4301)
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.
Rangeability	: Linear 50:1.
Fluid	: Hot Thermic Fluid, Hot Water, Hot Steam, etc.
Note	: 5512A are Metal Seated Valves.



## ACTUATOR

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

Electric Motor	: Single phase, permanent split phase capacitor type class 'F' insulated motor.
Electric Supply	: 220/240, 110, 24 Volts 50/60 Hz, 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 Failure of Electricity.	: Stayput
Control Suitability	: Actuator is suitable for On-Off, Anticipatory, PI, PID Control system.

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

## SPECIFICATION TABLE

Catalogue Number	Size (mm)	Orifice Size (mm)	Flow Factor Kv M <sup>3</sup> /hr.	Safe Working Pressure. Bar	Actuator				Stroke (Approx.) mm	Travel time (Approx.) Secs.
					KN-05	KN-07	KN-10	KN-25		
					Working Pressure (Bar)					
5512A155/WCBF x KN 05	15	18	4.0	40	40	-	-	-	20	48
5512A205/WCBF x KN 05	20	22	6.3	40	40	-	-	-	20	49
5512A255/WCBF x KN 05	25	25	10	40	35	-	-	-	20	48
5512A405/WCBF x KN 05	40	40	25	40	20	-	-	-	20/30	48
5512A505/WCBF x KN 05/07	50	50	40	40	10	40	-	-	30	80
5512A655/WCBF x KN 07	65	65	63	40	-	30	-	-	30	80
5512A805/WCBF x KN 07/10	80	80	100	40	-	7	20	-	30	60
5512A1005/WCBF x KN10/25	100	100	160	40	-	-	12	14	30	60
*5512A1505/WCBF x KN10/25	150	150	400	40	-	-	4	7	50	100

\*Under development