

2/3-Way Motorised Control Valves with Electric Actuator

DATA SHEET
MV-5516A/WCBF

For Thermic Fluid Application-Mixing or Diverting Type
(On-Off and Control Application.)

SPECIFICATIONS

Sizes	: 20mm (3/4") to 150mm (6").
Unified Flanges	: As per ANSI Cl. 150 and PN 16.
Pressure Rating	: As per ANSI Cl. 150, CI.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)
Face to Face	: As per DIN-3202. Part I Series F1 (All materials).
Testing Standard	: ANSI-FCI-70-2.
Type of Plug	: On-Off 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 MO 1810) 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	: 5516A are Metal Seated Valves.



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. Control Suitability	: Stayput : Actuator is suitable for On-Off, Anticipatory, PI, PID Control system.

ACTUATOR

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

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

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)	M ³ /hr.	Bar	Working Pressure (Bar)				mm	Secs.
5516A205/WCBF x KN 05	20	22	6.3	40	40	-	-	-	20	49
5516A255/WCBF x KN 05	25	25	10	40	35	-	-	-	20	48
5516A405/WCBF x KN 05	40	40	25	40	20	-	-	-	20/30	48
5516A505/WCBF x KN 05/07	50	50	40	40	15	40	-	-	30	80
5516A655/WCBF x KN 07	65	65	63	40	-	30	-	-	30	80
5516A805/WCBF x KN 07/10	80	80	100	40	-	7	20	-	30	60
5516A1005/WCBF x KN 10/25	100	100	160	40	-	-	12	20	30	60
*5516A1505/WCBF x KN 10/25	150	150	320	40	-	-	5	10	50	100

*Under development