

2/2-Way Motorised Control Valves with Electric Actuator

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

DATA SHEET
MV-5512A/B

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.

ACTUATOR

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



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.

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

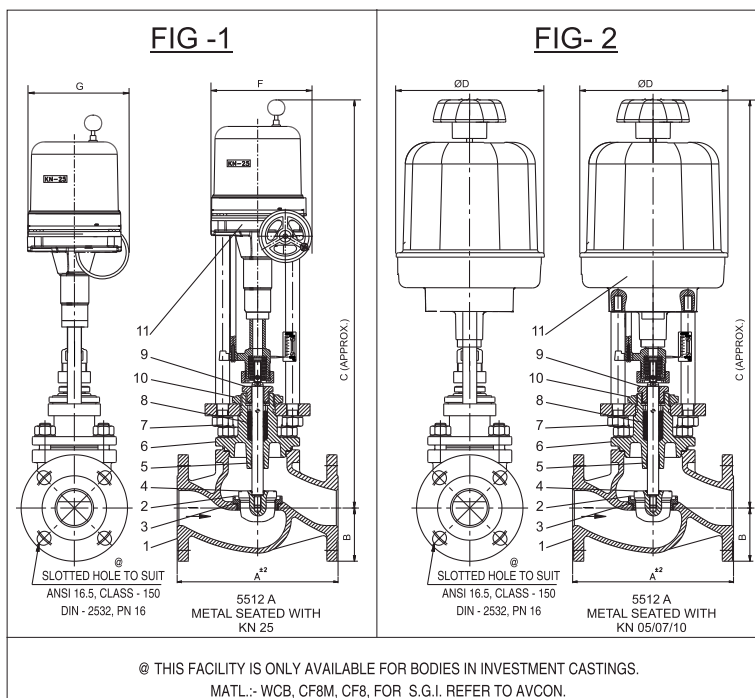
Note: (1) When used with letter 'B' means Soft Seated, e.g. 5512B505 - not suitable for temperature above 180°C
(2) For higher working temperature, please refer to leaflet 5512A/WCBF.

2/2 WAY CONTROL VALVES WITH ELECTRIC ACTUATOR.

BILL OF MATERIAL

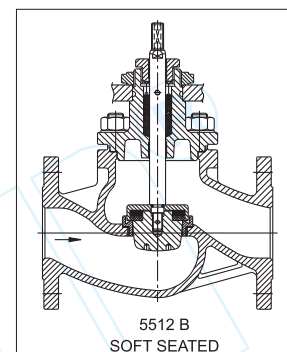
Item	Parts	Material
1	Body	SS ASTM A351CF8/CF8M
		CS ASTM A216, Gr. WCB
		SGHS 1865 Grade SG 400/15A
2	Seat	SS AISI 420/ SS AISI 316
3	Gasket	Cr.Ni Foil coated with graphite
4	Plug	SS AISI 420/ SS AISI 316
5	Duro Bush	PTFE Lined & coated, SS backed.
6	Bonnet	SS ASTM A351CF8/CF8M
		CS ASTM A 216, Gr. WCB
		SGI-IS 1865 Grade SG 400/15A
7	Studs/ Nuts	IS 1363, ASTM A193, Gr.B7
		IS 1363, ASTM A 194, Gr.2H
8	Gland Packing	Graphited PTFE
9	Gland Nut	SS AISI 304
10	Yoke Nut	CS ASTM A216, Gr. WCB
11	Actuator	Electric Actuator

◆ Refer to actuator leaflet for details of components.



TECHNICAL DATA TABLE

Valve Size MM	15	15	15	15	20	20	20	20	25	40	40	50	65	80	100	150
Port Sizes 2-way	3	5	12	18	5	7	12	22	25	25	40	50	65	80	100	150
Kv. M ³ /hr.	0.1	0.16	0.25	4.0	0.4	1.0	1.5	6.3	10	10	25	40	63	100	160	400
Travel	20	20	20	20	20	20	20	20	20	30	30	30	30	30	30	50
Electric Actuator	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN05	KN07	KN07	KN10	KN10



DIMENSIONS (IN MM)

Catalogue Number	Size Inch	Constr. Ref. Fig.	A	B	C	FxG	Wt. Kg. (Approx.)	Envelope Size LxHxW (Approx.)	Box Wt. Kg. (Approx.)
5512A/B155 x KN 05	1/2	FIG 2	130	45	503	178x178	8.5	598 x 150 x 205	11.5*
5512A/B205 x KN 05	3/4	FIG 2	150	49	503	178x178	9.5	602 x 170 x 205	12.5*
5512A/B255 x KN 05	1	FIG 2	160	54	535	178x178	11.5	639 x 180 x 205	16.5*
5512A/B405 x KN 05	1 1/2	FIG 2	200	64	550	178x178	15.0	664 x 220 x 205	22.0*
5512A/B505 x KN 05	2	FIG 2	230	76	582	178x178	20.0	708 x 250 x 205	28.7*
5512A/B501 x KN 07					685	178x178	28.0	811 x 250 x 205	37.0*
5512A/B655 x KN 07	2 1/2	FIG 2	290	89	602	178x178	30.0	741 x 310 x 205	40.0**
5512A/B805 x KN 07	3	FIG 2	310	96	712	225x225	36.0	844 x 325 x 250	45.0**
5512A/B801 x KN 10					725	225x225	49.0	871 x 325 x 250	60.0**
5512A/B1005 x KN 10	4	FIG 2	350	115	730	225x225	65.0	895 x 370 x 250	74.0**
5512A/B1001 x KN 25		FIG 1			812	260x300	69.0	977 x 370 x 285	80.0**
5512A/B1505 x KN10	6	FIG 2	480	140	788	225x225	81.0	978 x 500 x 250	90.0**
5512A/B1501 x KN25		FIG 1			870	260x300	85.0	1060 x 500 x 320	96.0**

Note: * Weight of cardboard + PUF Box Packing. Which may change for Export when packed in wooden box. ** Weight of Wooden Box Packing.

Note:

Technical specifications, details & dimensions are subject to change without prior notice. Dimensions in the table are approximate subject to final confirmation by AVCON.

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