

3 WAY 4 SEATS BALL VALVES



TYPE

MODEL H43 MANUAL OPERATION TYPE

MODEL H43-AC

WITH DOUBLE ACTING PNEUMATIC ACTUATOR

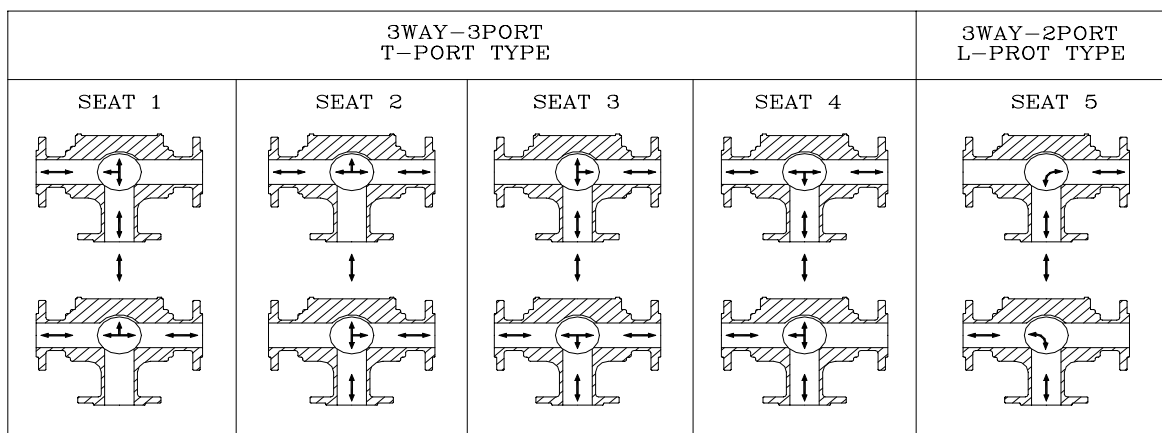
MODEL H43-ACS

WITH SINGLE ACTING PNEUMATIC ACTUATOR

PORT FROM T PORT , L PORT

- 90° - Operation positioning stopper is applicable.
choose a proper operating from , referring to the illustration below.
- Hisaka's 3-way 4-seat type ball valves , inheriting the Outstanding features of ball valves , are most suited to Fluid flow change-over , flow mixing and shutting-off.
- Model H43-AC and model H43-ACS are provided with highly recognized Hisaka's " Pneumatic " actuator.
- Owing to 4-seat design it is possible to let in fluid in any direction

FLOW DIRECTION



STANDARD MANUFACTURING RANGE

JIS , ANSI , DIN , BS STANDARD

STAINLESS STEEL (CF 8/304 , CF 8M/316 , CF 3M/316L)

CAST IRON

MAIN MATERIAL

No.	PARTS NAME	Q'ty	MATERIAL		
1	Body	1	CF-8	CF-8M	Cast iron
2	Body Cap	2	CF-8	CF-8M	Cast iron
3	Side Cover	1	CF-8	CF-8M	Cast iron
4	Ball	1	CF-8	CF-8M	CF-8
			S.S.304	S.S.316	S.S.304
5	Ball Seat	4	Teflon	Teflon	Teflon
6	Stem	1	S.S.304	S.S.316	S.S.403
7	Body Gasket	1	Teflon	Teflon	Teflon
8	Stem Packing	2	Teflon	Teflon	Teflon
9	Trunnion	1	S.S.304	S.S.316	S.S.304

ACTUATOR SPECIFICATION

Applicable fluid : Air

Max . operating pressure : 7 kg/cm² G

Allowable ambient temperature : -15°C to +80° C

Lubricant : Not required

Rotating angle : 90°

Guaranteed working cycle : 100,000 cycle

Rotating angle : 90°

Air connection : PT1/4 , 3/8

TEST PRESSURE

CLASS	BODY(A.T.P)	SEAT(A.T.P)
JIS 10K	15 kg/cm ² G	6 kg/cm ² G
ANSI 125	17.5 kg/cm ² G	
ANSI 150	21 kg/cm ² G	
NP 10	15 kg/cm ² G	

MANUAL 3WAY BALL VALVE

STANDARD PORT

3-WAY BALL VALVES.(; or T-position)

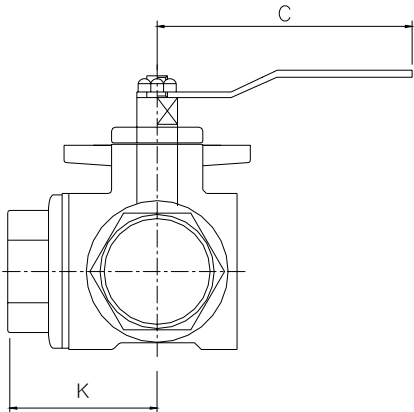
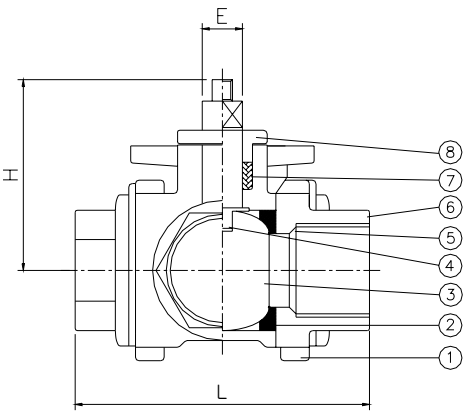
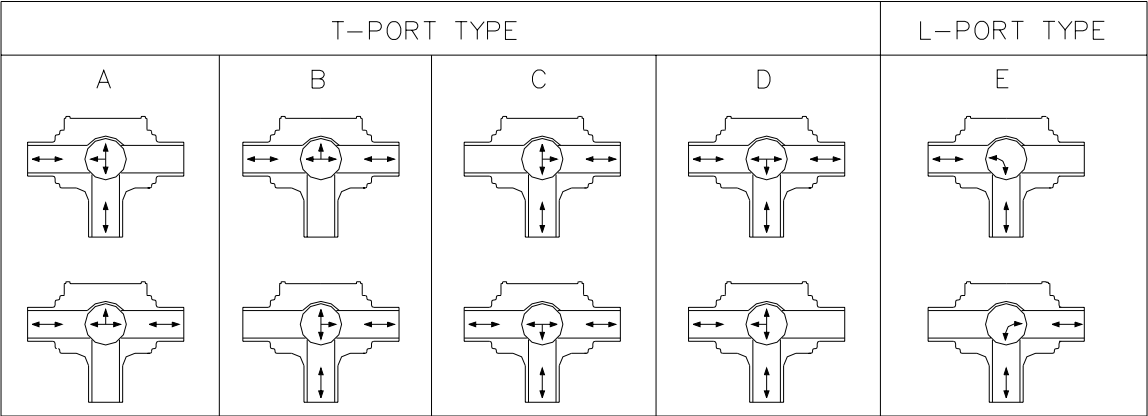
STANDARD PORT , 1000 WOG

Thread End : BSPT,BSPF,NPT,DIN259,DIN2999

Materials : ASTM A351-CF8M(DIN 1.4408)Stainless Steel

ASTM A216-WCB(DIN 1.0619)Carbon Steel

- * High Quality Investment Casting Body and Caps.
- * ISO-5211 Mounting Top Flange for Actuator & Square Starr.
- * Pressure temperature Rating-1000 PSI (PN63)/232 deg. C
- * 15% Reinforced Glass fiber Teflon seats.
- * Blow-out proof stem SS316 , Adjustable Stem Packing.
- * 100% tested air-under water at 100 PSI96 Ba” s)open & Close position.
- * Locking Device ,Teflon 4 Seats Design



MATERIAL LIST

NO	PART NAME	MATERIAL
1	BODY	ASTM A351 CF8M
2	SEAT RING	REINFORCED PTFE
3	BALL	ASTM A351 CF8M
4	STEM	AISI 316
5	END SEALS	REINFORCED PTFE
6	END CAP	ASTM A351 CF8M
7	STEM PACKING	REINFORCED PTFE
8	WASHER	AISI 316

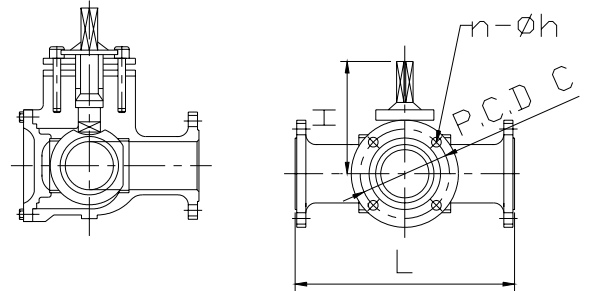
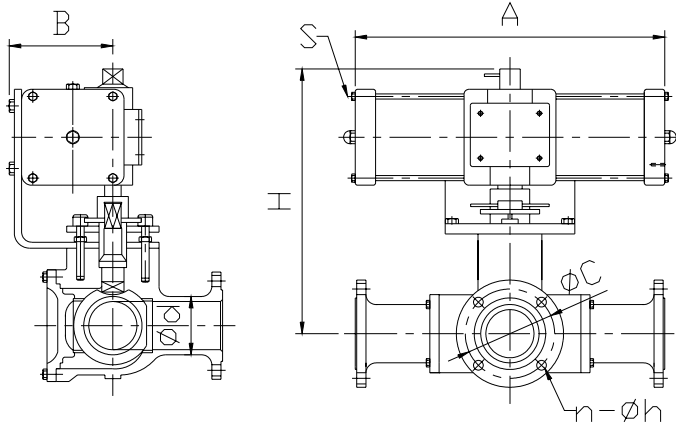
DIMENSIONS (MM)

SIZE	H	C	L	K	E
1/4"	41.5	130	72	36	9
3/8"	41.5	130	72	36	9
1/2"	44	130	83	41.5	9
3/4"	52	165	99	49.5	11
1"	58	165	112	56	11
1-1/4"	67	205	125	62.5	14
1-1/2"	78	205	149	74.5	14
2"	97	325	174	87	17

1/2B ~ 4B

H43-AC

H 43



VALVE SIZE	L	H23-AC					H23		FLANGE
		H	A	B	S	ACTUATOR	H	HANDLE	STANDARD
1/2B, 15A	180	176	239	75	PT 1/4	H200	72	120	JIS 10 K
3/4B, 20A	190	184	239	75	PT 1/4	H200	80	150	JIS 10 K
1B, 25A	200	188	239	75	PT 1/4	H200	84	150	JIS 10 K
1 1/2, 40A	240	262	354	103	PT 1/4	H275	117	200	JIS 10 K
2B, 50A	260	281	354	103	PT 1/4	H275	136	220	JIS 10 K
2 1/2B, 60A	320	335	410	119	PT 1/4	H375	159	300	JIS 10 K
3B, 80A	360	441	560	131	PT 1/4	H500	182	350	JIS 10 K
4B, 100A	430	527	721	166	PT 1/4	H600	222	600	JIS 10 K

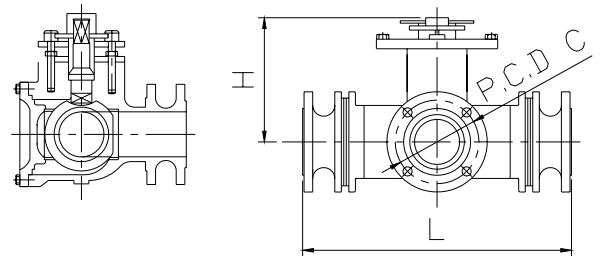
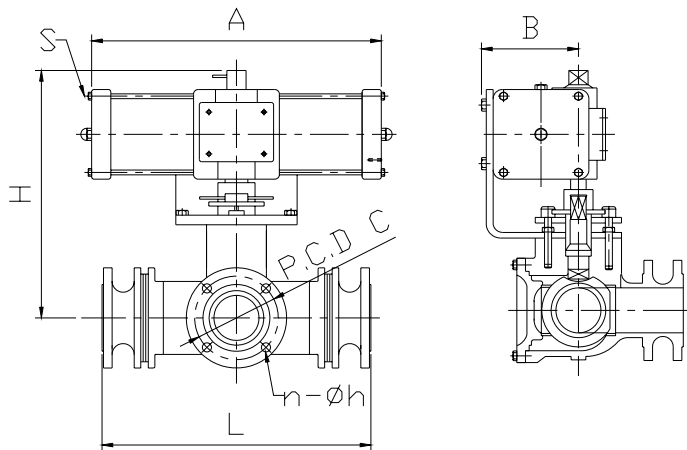
5B ~ 6B

*Brown Figures : JIS 10K Cast iron flat face.

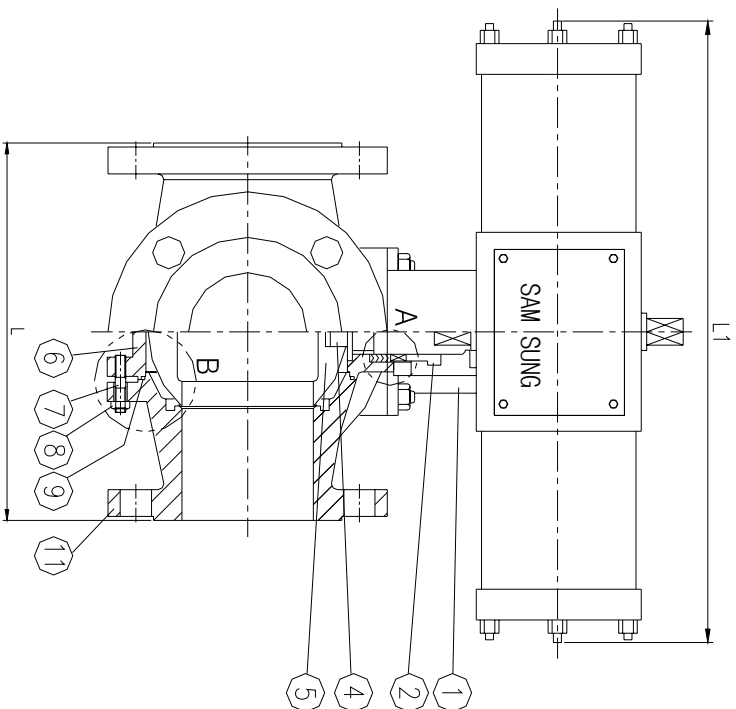
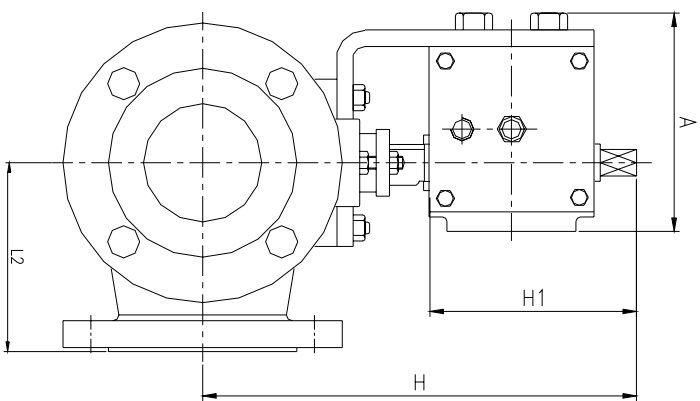
*The Figures in the parenthesis show the Weight of H43-AC

H43-AC

H 43



VALVE SIZE	L	H43-AC					H43		FLANGE
		H	A	B	S	ACTUATOR	H	HANDLE	STANDARD
5B, 125A	500	551	721	166	PT 1/4	H500	263	800	JIS 10 K
6B, 150A	560	633	899	206	PT 3/8	H500	275	1000	JIS 10 K
8B, 150A	660	716	1015	241	PT 3/8	H500	Worm Gear		JIS 10 K
10B, 150A	740	790	1385	241	PT 3/8	H500			JIS 10 K

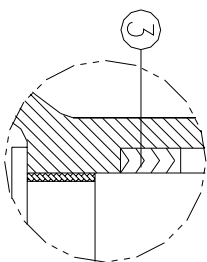


T-PORT TYPE				L-PORT TYPE
A	B	C	D	E

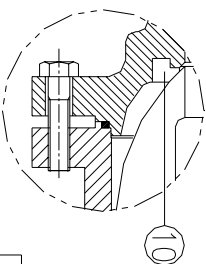
PART

FLANGE CODE : JIS 10K RF

11	BONNET	SCS13	1
10	SEAT RING	TEFLON(GLASS15%)	1
9	GASKET	TEFLON	1
8	HEX'NUT	STAINLESS STEEL	1
7	STUD BOLT	STAINLESS STEEL	1
6	BODY	SCS13	1
5	BALL	SCS13	1
4	STEM	SUS304	1
3	PACKING	TEFLON	1
2	SNAP RING	CARBON STEEL	1
1	BRACKET	Al. Alloy	1
NO.	PART NAME	MATERIAL (Standard)	Q'TY



DETAIL A



DETAIL B

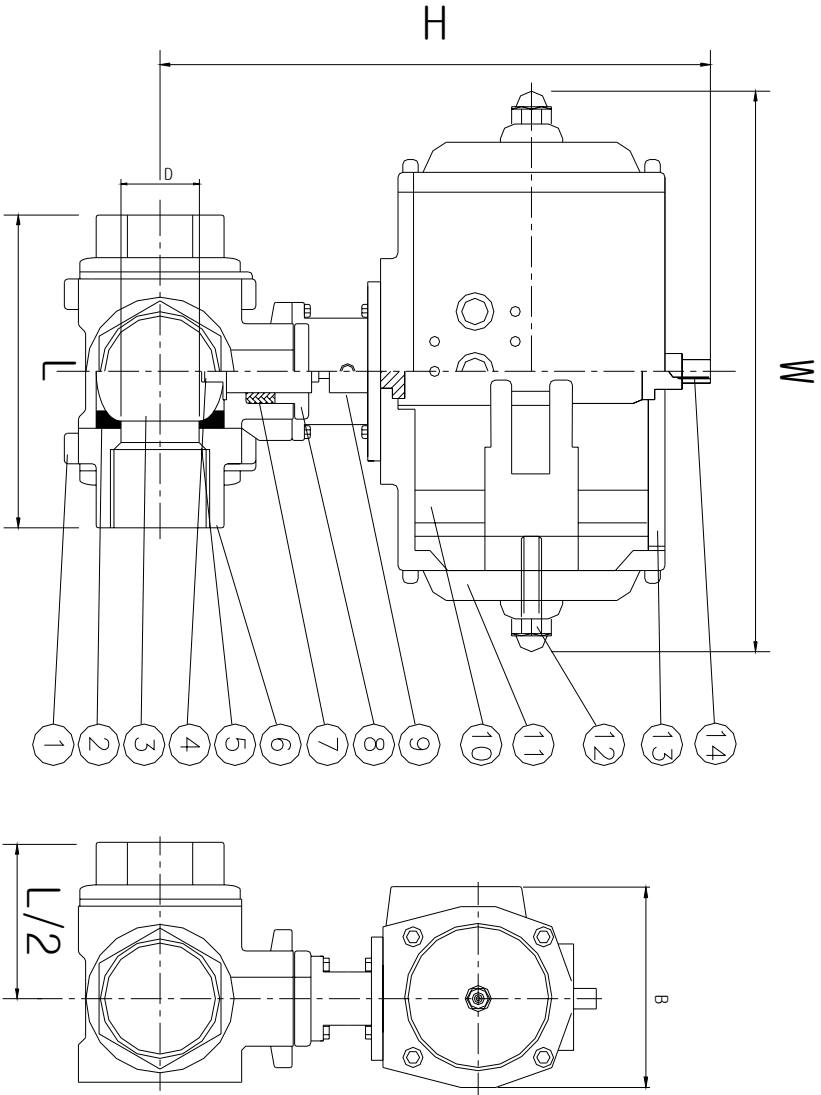
DIMENSIONS

UNIT : mm

SIZE	L	L1	L2	A	H	PT
20A	185	290	92.5	93	212	1/4"
25A	190	290	95	93	215	1/4"
40A	240	332	120	115	283	1/4"
50A	260	332	130	115	288	1/4"
65A	300	420	150	134	370	1/4"
80A	360	420	180	134	385	1/4"
100A	430	560	215	165	450	1/4"
125A	480	695	240	210	563	3/8"
150A	560	695	280	210	582	3/8"
200A	660	980	330	241	716	3/8"

PNEUMATIC ACTUATOR 3-WAY BALL VALVE			MODEL NO.
SAM SUNG CONTROL VALVE			SB-3000
DATE	1999. 09. 06.	DRAWING NO.	
REF	A		SAM-B3000-010

1. BODY STYLE



2. DIMENSIONS

SIZE	B	D	H	L	W
15A	117	12	128	75	173
20A	117	16	130	86	173
25A	117	20	135	103	173
32A	130	25	227	115	254
40A	130	32	248	125	254
50A	130	38	254	146	254

3. PORT TYPE

T-PORT TYPE				L-PORT TYPE
A	B	C	D	E

4. PART NAME

14	ACTUATOR SHAFT	S45C	1
13	CYLINDER	AL.ALLOY	1
12	SETTING SCREW	SS41	2
11	CYLINDER COVER	AL.ALLOY	2
10	PISTON	AL.ALLOY	2
9	BRACKET	AL.ALLOY	1
8	WASHER	AISI304	1
7	STEM PACKING	V-VITON	1
6	END CAP	ASTM A351 CF8M	1
5	END SEALS	REINFORCED PTFE	3
4	STEM	AISI316	1
3	BALL	ASTM A351 CF8M	1
2	SEAT RING	VITON	3
1	BODY	ASTM A351 CF8M	1
NO.	PART NAME	MATERIAL	Q'TY

SAM SUNG CONTROL VALVE				MODEL NO.	SB-210
SCALE	N/S	DRAWN	DES.	CHECK	APPR.
UNIT	mm				
DATE	1999. 10. 18.				
				DRAWN NO.	SAS32012
				DRAWN NAME	PNEUMATIC 3WAY BALL VALVE