



Model	Gear Ratio	A	B	C	E	F	Dp1	F1	Dp2	F2	Dv1	M1	Dv2	M1	JxDeep	K	H2	Red. Option Actuator Model	G	H	H1	L	M	øS	Wt (kg)
970D-050	1:40	70	125	110	44.2	54	70	8.5	50	8.5	70	4-M8x12	50	4-M6x10	11x12	11	11	52	90	100	33	143	104	200	2.7
970D-102	1:36	115	185	160	65	70	125	13	102	11	125	4-M12x18	102	4-M10x15	22x24	22	22	105-127	140	124	45	190	140	300	6.8
															14x16	14	14	63-75							
															17x19	17	17	83-92							
970D-165	1:55	165	268	243	104.5	105	140	17	-	-	140	4-M16x24	-	-	36x39	36	36	190-210	230	181	58	395	214	600	25.8
							165	21	-	-	165	4-M20x30	-	-	36x39	46	46	240-270							

NO.	PARTS NAME	MATERIALS	Q'TY
1	Bolt	Stainless Steel	4
2	The limiting assembly	SS304	1
3	Bracketcap	Aluminium	1
4	O-Ring	NBR 70	2
5	Clip spring	Steel black	2
6	Connecting shaft	Carbon steel45#	1
7	Worm gear	Ductile iron	1
8	Wrench	SS304	1
9	Theset screws	SS304	1
10	Body	Aluminium	1
11	Adjusting Bolt	SS304	2
12	Adjusting Bolt Casket	SS304	2
13	Adjusting Nut	SS304	2
14	Adjusting Nut Cap	NBR 70	2
15	O-Ring	NBR 70	2
16	O-Ring	NBR 70	2
17	Eccentric Shaft	45#steel nickel plating	2
18	Bearing	Powder metallurgy	2
19	Worm	Carbon steel45#	1
20	Rotating Shaft	SS304	1
21	Pin	Spring Steel black	1
22	Hand wheel	Carbon steel polyester coating	1
23	Mechanical valve	Spring Steel black	1

Model	Actuator square	Valve square	ISO 5211 Flange Type	Hand Wheel ø	Output/Input Torque Ratio	Max. Output Torque(Nm)	Actuator Model	Butterfly Valve	Ball Valve	WT(KG)
970D-050	11/14/17	11/14/17	F05,F07	200	1:9.6	300	52-105	32-150	50	2.7
970D-102	22/27	22/27	F10,F12	300	1:12.5	810	105-160	200-300	80	6.8
970D-165	36/46	36	F14,F16	600	1:19	2800	240-270	350-400	150	25.8

NAME	Handwheel Gearbox	DWG.	Akira	DATE	Jun.19.2020
TYPE	970D	CHD.		DATE	
ZIPSON STEEL INDUSTRIAL CO., LTD.				DWG.NO.	970D-GEAR BOX-A1