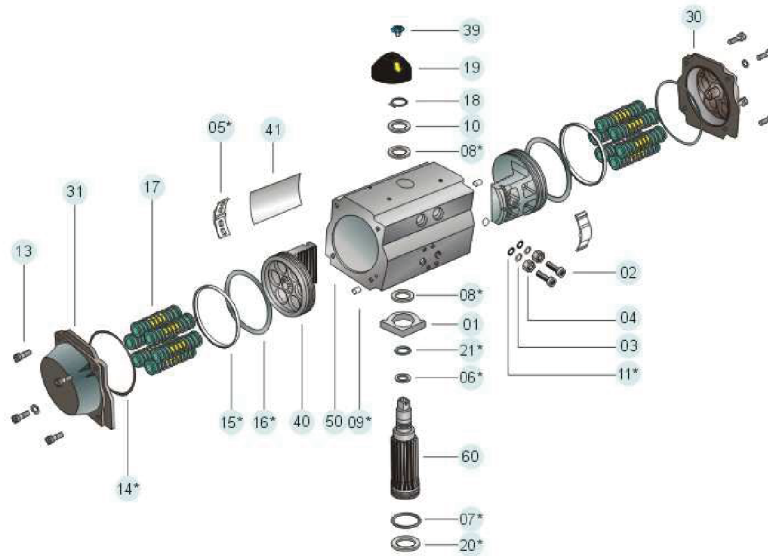




Materials

No.	Quantity	Name	Standard material	Protection	Optional material
01	1	Octi-cam(Brake gear)	Stainless steel	-	-
02	2	Stopper bolt	Stainless steel	-	-
03	2	Thrust washer	Stainless steel	-	-
04	2	Screw cap	Stainless steel	-	-
05*	2	Bearing(Piston back)	Composite materials	-	-
06*	1	Bearing(Gear's top)	Nylon 46	-	-
07*	1	Bearing(Gear's foot)	Nylon 46	-	-
08*	2	Thrust bearing(Gear)	Composite materials	-	-
09*	2	Plunger	NBR	-	Vion/Silicone
10	1	Thrust washer	Stainless steel	-	-
11*	2	O-ring(Stopper bolt)	NBR	-	Vion/Silicone
13	8◎	Cap screw	Stainless steel	-	-
14*		O-ring(End cap)	NBR	-	Vion/Silicone
15*	2	Bearing(Piston head)	Composite materials	-	-
16*		O-ring(Piston)	NBR	-	Vion/Silicone
17	5~12	Spring	Alloy spring steel	Epoxy coating	-
18		Circlip(Gear)	Alloy spring steel	Nickel plated	Stainless steel
19	1	Positon indicator	Composite materials	-	-
20*		Bearing(Gear's foot)	NBR	-	Vion/Silicone
21*	1	Bearing(Gear's top)	NBR	-	Vion/Silicone
30(D)		Right end cap	Cast aluminum alloy	Alkyd coating	-
31(D)	1	Left end cap	Cast aluminum alloy	Alkyd coating	-
39		Cap screw	Stainless steel	-	-
40	2	Piston	Cast aluminum alloy	Anodization	-
41		Label of the actuator	Polyster aluminum	-	-
50	1	Cylinder body	Cast aluminum alloy	Anode hardening	-
60		Output axis	Alloy steel	Nickel plated	Stainless steel



Pneumatic Actuator

Technical Data

Selection of actuator



1. Increase safety coefficient to the torque of choosing valve when selecting pneumatic actuator.
2. Suggest 25% safety coefficient for vapor or non-lubricating liquids.
3. Suggest 25% safety coefficient for non-lubricating slurry liquids.
4. Suggest 40% safety coefficient for non-lubricating dry gas.
5. Suggest 60% safety coefficient for non-lubricating powder and particles transported by air.
6. Suggest 20% safety coefficient for clean and low-friction lubricant

Model	Diameter	Rotation required for 1 stroke adjustment	Opening cylinder volume(L)	Closing cylinder volume(L)	Opening time(S)		Closing time(S)		Estimated weight(kg)	
Z052 D/S	50	1/6	0.1	3	0.2	0.3	0.3	0.3	1.1	1.2
Z063 D/S	63	1/6	0.2	0.3	0.3	0.3	0.3	0.4	1.6	1.8
Z075 D/S	75	1/5	0.3	0.5	0.3	0.4	0.4	0.5	2.8	3.3
Z083 D/S	85	1/5	0.51	0.78	0.4	0.5	0.5	0.6	3.13	3.60
Z092 D/S	90	1/5	0.5	0.8	0.4	0.5	0.5	0.6	4.0	4.7
Z100 D/S	100	1/5	0.7	1.1	0.5	0.6	0.7	0.9	5.4	6.5
Z125 D/S	125	1/5	1.5	2.3	0.9	1.1	1.2	1.4	11.0	13.4
Z140 D/S	145	1/4	2.4	3.8	1.2	1.4	1.5	1.8	15.5	19.1
Z160 D/S	160	1/4	3.1	4.9	1.5	1.7	2.1	2.4	20.2	24.4
Z190 D/S	190	1/4	4.3	6.9	2.0	2.2	2.8	3.5	33.0	39.6
Z210 D/S	210	1/4	5.9	9.5	2.7	3.2	3.5	4.0	35.5	45.1
Z240 D/S	240	1/4	10.0	15.2	3.5	4.0	4.1	4.6	61.5	72.5
Z270 D/S	270	1/4	14.5	21.4	4.0	4.5	4.5	5.0	86.0	104
Z300 D/S	300	1/4	25.0	40.0	6.0	7.5	7.0	8.5	110.0	130
Z400 D/S	400	1/4	52.6	66.2	14.1	16.2	15.7	17.3	289.0	360

