



METAL SPECIFICATIONS FOR ACTUATORS (045-200)

Parts	Material Description	Specification	Chemical Composition (%)									Tensile strength (PSI / Mpa)	Yield strength (PSI / Mpa)	Elongation (%)
			Aluminum	Carbon	Chromium	Copper	Iron	Manganese	Magnesium	Nickel	Silicon			
Body	Aluminum Alloy	ASTM B 221, 6063-T6.	Bal	-	0.1	0.1	0.35	0.1	0.75	-	0.4	29725 / 205	24650 / 170	8
End Cap	Aluminum Alloy	BS : 1490 Gr-LM24	Bal	-	-	3.5	1.3	0.5	0.3	0.5	8.0	26100 / 180	15660 / 108	1.5
Piston	Aluminum Alloy	BS : 1490 Gr-LM24	Bal	-	-	3.5	1.3	0.5	0.3	0.5	8.0	26100 / 180	15660 / 108	1.5
Pinion	Nickel Plated Steel	BS : 970 Gr-En8 + ENP	-	0.4	-	-	Bal	0.8	-	-	0.2	121105 / 835	79770 / 550	22
Cam	Chromium Molybdenum Steel	ASTM A732 Gr. 8Q	-	0.4	0.95	0.5	Bal	0.85	-	0.5	0.5	121105 / 835	79770 / 550	13
Bolt / Nut	A2 - 70	IS 1367 Part - 14	-	0.08	18	-	Bal	2	-	10	1	101500/700	65250/450	-
Spring	Spring Steel	IS 4454 Part-III Gr-2D or DIN17223 VD SiCr	-	0.55	0.6	-	Bal	0.6	-	-	1.4	-	-	-

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