



RATIOS

1-Stage	2-Stage	3-Stage	4-Stage	5-Stage
4:1	14:1	51:1	189:1	531:1
5:1	16:1	59:1	218:1	556:1
	18:1	68:1	252:1	596:1
	19:1	71:1	264:1	626:1
	22:1	79:1	292:1	642:1
	25:1	93:1	305:1	672:1
	27:1	95:1	337:1	721:1
	29:1	100:1	344:1	724:1
	35:1	115:1	353:1	777:1
		124:1	369:1	837:1
		130:1	397:1	875:1
		139:1	408:1	939:1
		150:1	426:1	1012:1
		169:1	459:1	1140:1
		181:1	480:1	1223:1
		195:1	493:1	1318:1
		236:1	516:1	1594:1
			516:1	3329:1
			1594:1	3329:1
			1594:1	10757:1

Actual ratios are rounded to the nearest integer

PARAMETER	1-STAGE	2-STAGE	3-STAGE	4-STAGE
Perm. Output Torque oz-in	424.84	1062.090	2124.180	2124.180
Gearbox Efficiency, approx.	80%	75%	70%	65%
Max. Backlash in °Deg	1.30	.95	1.00	1.05
Operating temperature (Low Temp Special) °C	-15 to +65	-15 to +65	-15 to +65	-15 to +65
Output side with ball bearings (2RS)	yes	yes	yes	yes
Max. load, radial oz	576	828	1080	1296
Max. load, axial oz	180	288	396	504
Gearbox length p	1.933 ±.02	2.450 ±.02	2.964 ±.02	3.480 ±.02
Gearbox length q	2.858 ±.02	3.374 ±.02	3.90 ±.02	4.4055 ±.02
Ø x Total length (p + length from bearing flange)	1.65 x 2.917	1.65 x 3.433	1.65 x 2.953	1.65 x 4.465
Weight oz	14.12	17.64	21.16	24.69

Consult Factory for 5-Stage Specifications