

Rack & Pinion Pneumatic Actuators

Series RP - Double Acting; Series RPS - Spring Return

Features:

- ▲ ISO 5211 mounting interface allows direct actuator mounting without using bracket & coupling.
- ▲ Air supply connections & top shaft comply with VDI/VDE 3845 (NAMUR) standard for good interchangeability.
- ▲ Hard anodized aluminum body & Electroless nickel coated steel drive-shaft give high corrosion-resistance & superior wear-resistance.
- ▲ Independent travel stops in both directions offer +/- 5° travel adjustment to ensure accurate valve alignment.
- ▲ One-piece blowout-proof shaft ensures safety, strength, and extended cycle life.
- ▲ Extruded aluminum body with precision machined internal surface guarantee low friction, high cycle life and precision piston fit.
- ▲ Precision machined gear teeth with extra fine tolerance reduce backlash on the system, ensure excellent tooth engagement, and maximize cycle life.

Minimum Output Torque in In.-lbs. & Nm

Series RPS - Spring Return																						
Fig. No.	No. of Spr.	Air supply pressure in P.S.I. & (Bar)																				
		60 (4.1)				80 (5.5)				100 (7.0)				120 (8.3)				Spring Stroke				
		Start		End		Start		End		Start		End		Start		End		Start		End		
		In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	
RPS-250	2	138	16	110	12	202	23	172	19	265	30	235	27	326	37	310	35	70	8	45	5	
	3	112	13	70	8	176	20	133	15	230	26	195	22	302	34	260	29	105	12	65	7	
	4	88	10	32	4	152	17	93	11	210	24	155	18	276	31	220	25	140	16	90	10	
	5					126	14	55	6	190	21	115	13	250	28	180	20	175	20	110	12	
	6									164	19	77	9	230	26	140	16	210	24	135	15	
RPS-450	2	250	28	196	22	362	41	310	35	470	53	420	47	585	66	532	60	125	14	80	9	
	3	202	23	125	14	316	36	240	27	430	49	350	40	540	61	462	52	190	21	120	14	
	4	160	18	55	6	270	31	168	19	380	43	280	32	496	56	392	44	255	29	160	18	
	5					226	26	96	11	340	38	210	24	450	51	320	36	315	36	200	23	
	6									295	33	135	15	405	46	250	28	380	43	240	27	
RPS-1000	2	550	62	435	49	800	90	682	77	1050	119	930	105	1297	147	1180	133	280	32	180	20	
	3	450	51	278	31	705	80	526	59	950	107	775	88	1196	135	1025	116	420	47	270	31	
	4	350	40	120	14	600	68	370	42	850	96	620	70	1100	124	867	98	560	63	360	41	
	5					500	56	212	24	750	85	465	53	1000	113	710	80	700	79	450	51	
	6									650	73	305	34	900	102	560	63	840	95	540	61	
RPS-2250	2	1255	142	958	108	1816	205	1520	172	2380	269	2085	236	2940	332	2650	299	659	74	395	45	
	3	1035	117	595	67	1600	181	1155	130	2160	244	1715	194	2722	307	2280	258	990	112	590	67	
	4	815	92	225	25	1380	156	792	89	2030	229	1350	153	2505	283	1915	216	1320	149	790	89	
	5					1160	131	425	48	1725	195	985	111	2290	259	1550	175	1650	186	984	111	
	6									1505	170	620	70	2070	234	1180	133	1980	224	1180	133	
RPS-3650	2	2060	233	1570	177	2975	336	2480	280	3890	439	3395	384	4800	542	4310	487	1050	119	605	68	
	3	1725	195	1000	113	2650	299	1905	215	3550	401	2820	319	4450	503	3750	424	1570	177	910	103	
	4	1390	157	425	48	2300	260	1335	151	3210	363	2245	254	4130	467	3150	356	2090	236	1220	138	
	5					1970	223	750	85	2880	325	1655	187	3790	428	2570	290	2625	297	1520	172	
	6									2540	287	1090	123	3450	390	1995	225	3150	356	1825	206	
RPS-5000	2	2780	314	1990	225	3970	448	3180	359	5160	583	4380	495	6350	717	5570	629	1560	176	785	89	
	3	2380	269	1200	136	3570	403	2400	271	4760	538	3590	406	5960	673	4780	540	2340	264	1180	133	
	4	1980	224	416	47	3180	359	1600	181	4370	494	2800	316	5560	628	3990	451	3130	354	1570	177	
	5					2780	314	815	92	3970	448	2010	227	5160	583	3200	361	3910	442	1960	221	
	6									3570	403	1220	138	4760	538	2410	272	4690	530	2360	267	
RPS-11000	2	6060	685	4360	493	8660	978	6960	786	11300	1277	9560	1080	13900	1570	12200	1378	3400	384	1720	194	
	3	5200	587	2650	299	7790	880	5240	592	10400	1175	7840	886	13000	1469	10400	1175	5100	576	2570	290	
	4	4330	489	932	105	6930	783	3530	399	9520	1075	6130	692	12100	1367	8730	986	6790	767	3430	387	
	5					6060	685	1810	204	8660	978	4410	498	11300	1277	7010	792	8490	959	4290	485	
	6																					

Series RP - Double Acting

Fig. No.	Air supply pressure in P.S.I. & (Bar)									
	40 (2.8)		60 (4.1)		80 (5.5)		100 (7.0)		120 (8.3)	
	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm
RP-125	63	7	94	10	125	14	156	17	188	21
RP-250	127	14	190	21	250	28	315	36	378	43
RP-450	225	25	335	38	450	51	562	63	675	76
RP-1000	505	57	750	85	1020	115	1250	141	1500	169
RP-2250	1130	128	1690	191	2250	254	2815	318	3380	382
RP-3650	1825	206	2750	311	3650	412	4560	515	5475	618
RP-5000	2500	282	3750	424	5000	565	6250	706	7500	847
RP-11000	5500	621	8250	932	11000	1243	13750	1553	16500	1864

