

P RANGE - SUPPLEMENTAL METRIC AND IMPERIAL TORQUE DATA

P RANGE PNEUMATIC QUARTER TURN ACTUATORS

A technical drawing of a pneumatic quarter turn actuator. The drawing shows a cross-section of the actuator with various internal components and dimensions. The drawing is on a blue background with white lines. The text 'P RANGE PNEUMATIC QUARTER TURN ACTUATORS' is written along the top curve of the drawing. There are two circular symbols with a cross inside, one at the top and one at the bottom, representing the actuator's ports. A large triangle is on the left side, pointing towards the center. The drawing includes various concentric circles and lines representing the internal structure of the actuator.

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P - Pneumatic

P Range Actuator

Supplemental Sizing Tables

Spring Return - Imperial & Metric

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KEY

MIN HOLD = MINIMUM HOLD PRESSURE

MIN HOLD is the minimum pressure which will maintain the spring in the fully compressed state.

MOP = MAXIMUM OPERATING PRESSURE

MOP is the maximum pressure that can be applied to the actuator for regular operation and will produce the maximum center body torque at the Hydraulic Break position.

MAWP = MAXIMUM ALLOWABLE WORKING PRESSURE

MAWP is the maximum pressure that may be applied to a fully stroked actuator against the travel stop.

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P25005 SR40	28	350	350	End	750
				Mid	743
				Break	1,825
P25005 SR60	41	350	350	End	1,610
				Mid	1,231
				Break	2,702
P25005 SR80	51	350	350	End	1,980
				Mid	1,476
				Break	3,388
P25005 SRI100	65	350	350	End	2,200
				Mid	1,792
				Break	4,281
P25005 SRI25	84	350	350	End	2,790
				Mid	2,374
				Break	5,572
P25005 SRI50	96	350	350	End	3,380
				Mid	2,686
				Break	6,378
P25006 SR40	29	300	350	End	1,510
				Mid	1,214
				Break	2,672
P25006 SR60	38	305	350	End	2,260
				Mid	1,577
				Break	3,569
P25006 SR80	54	315	350	End	2,850
				Mid	2,254
				Break	5,114
P25006 SRI100	66	320	350	End	3,610
				Mid	2,794
				Break	6,329
P25006 SRI25	81	330	350	End	4,670
				Mid	3,418
				Break	7,695
P25006 SRI50	96	335	350	End	5,250
				Mid	3,950
				Break	9,141

IMPERIAL

SR
Imperial

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	60	60	70	80	90	100	125	150	175	200
861	2,204	2,204	2,876	3,547	4,219					
749	1,495	1,495	1,868	2,242	2,615					
1,836	3,179	3,179	3,851	4,522	5,194					
	1,327	1,327	1,998	2,670	3,341	4,013				
	1,008	1,008	1,381	1,754	2,127	2,500				
	2,301	2,301	2,973	3,644	4,316	4,987				
		641	1,313	1,984	2,656	3,327	5,006			
		762	1,135	1,509	1,882	2,255	3,187			
		2,103	2,775	3,446	4,118	4,789	6,468			
			419	1,091	1,762	2,434	4,113	5,791		
			820	1,193	1,566	1,939	2,871	3,804		
			2,531	3,203	3,874	4,546	6,224	7,903		
					472	1,143	2,822	4,501	6,179	
					984	1,357	2,290	3,222	4,155	
					3,071	3,742	5,421	7,100	8,779	
						337	2,015	3,694	5,373	7,052
						1,044	1,977	2,910	3,842	4,775
						3,423	5,102	6,781	8,460	10,138
1,196	3,130	3,130	4,097	5,064	6,031					
935	2,010	2,010	2,547	3,084	3,621					
2,170	4,104	4,104	5,071	6,038	7,005					
	2,233	2,233	3,200	4,167	5,133	6,100				
	1,646	1,646	2,184	2,721	3,258	3,795				
	3,695	3,695	4,662	5,629	6,596	7,563				
		688	1,655	2,622	3,589	4,556	6,974			
		969	1,506	2,043	2,581	3,118	4,461			
		2,800	3,767	4,734	5,701	6,668	9,085			
			440	1,407	2,374	3,341	5,759	8,176		
			967	1,504	2,041	2,578	3,921	5,264		
			3,039	4,006	4,973	5,940	8,358	10,775		
					1,008	1,975	4,392	6,810	9,227	
					1,417	1,954	3,298	4,641	5,984	
					4,094	5,061	7,479	9,896	12,314	
						528	2,946	5,363	7,781	10,198
						1,422	2,765	4,108	5,451	6,794
						4,590	7,007	9,425	11,842	14,259

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P25007 SR40	28	220	280	End	1,920
				Mid	1,577
				Break	3,569
P25007 SR60	42	230	300	End	2,960
				Mid	2,380
				Break	5,341
P25007 SR80	55	235	310	End	3,670
				Mid	3,056
				Break	7,044
P25007 SRI100	66	240	320	End	4,390
				Mid	3,614
				Break	8,536
P25007 SRI25	81	250	340	End	6,020
				Mid	4,574
				Break	10,508
P25007 SRI50	95	260	350	End	7,480
				Mid	5,420
				Break	12,355
P25008 SR40	29	175	220	End	2,300
				Mid	2,044
				Break	4,735
P25008 SR60	41	180	240	End	3,540
				Mid	3,006
				Break	6,954
P25008 SR80	54	185	250	End	4,770
				Mid	3,950
				Break	9,141
P25008 SRI100	68	200	260	End	6,490
				Mid	5,121
				Break	11,491
P25008 SRI25	84	205	280	End	7,300
				Mid	6,136
				Break	14,293
P25008 SRI50	99	210	290	End	8,770
				Mid	7,163
				Break	16,792

IMPERIAL

SR
Imperial

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	60	60	70	80	90	100	125	150	175	200
1,695	4,328	4,328	5,644	6,960	8,276					
1,348	2,810	2,810	3,542	4,273	5,004					
3,157	5,790	5,790	7,106	8,422	9,738					
	2,556	2,556	3,873	5,189	6,505	7,821				
	2,007	2,007	2,738	3,469	4,200	4,932				
	4,668	4,668	5,984	7,301	8,617	9,933				
			2,169	3,485	4,801	6,117	9,408			
			2,062	2,794	3,525	4,256	6,084			
			5,255	6,572	7,888	9,204	12,494			
				1,993	3,309	4,626	7,916	11,206		
				2,235	2,967	3,698	5,526	7,354		
				6,054	7,371	8,687	11,977	15,268		
					1,338	2,654	5,944	9,235	12,525	
					2,007	2,738	4,566	6,394	8,222	
					5,886	7,203	10,493	13,783	17,074	
							4,097	7,388	10,678	13,969
							3,720	5,548	7,376	9,204
							9,296	12,586	15,877	19,167
2,141	5,579	5,579	7,298	9,017	10,736					
1,776	3,686	3,686	4,641	5,596	6,551					
4,253	7,691	7,691	9,410	11,129	12,848					
	3,361	3,361	5,080	6,799	8,518	10,237				
	2,725	2,725	3,680	4,635	5,590	6,545				
	6,447	6,447	8,167	9,886	11,605	13,324				
		1,173	2,892	4,611	6,330	8,049	12,347			
		1,780	2,735	3,690	4,645	5,600	7,988			
		5,234	6,953	8,672	10,392	12,111	16,408			
				2,261	3,980	5,699	9,997	14,295		
				2,520	3,475	4,430	6,817	9,205		
				6,810	8,529	10,248	14,546	18,843		
					1,178	2,897	7,195	11,493	15,791	
					2,460	3,415	5,802	8,190	10,578	
					7,676	9,395	13,693	17,991	22,289	
							4,697	8,994	13,292	17,590
							4,775	7,163	9,550	11,938
							12,494	16,792	21,090	25,387

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P25010 SR40	28	115	150	End	3,810
				Mid	3,207
				Break	7,317
P25010 SR60	40	120	160	End	5,800
				Mid	4,616
				Break	10,583
P25010 SR80	54	130	180	End	7,300
				Mid	6,144
				Break	14,308
P25010 SRI100	67	135	190	End	9,460
				Mid	7,625
				Break	17,624
P25010 SRI25	84	145	210	End	11,980
				Mid	9,730
				Break	22,306
P25010 SRI50	101	155	220	End	14,350
				Mid	11,642
				Break	26,730
P250012 SR40	27	85	110	End	5,600
				Mid	4,422
				Break	10,234
P250012 SR60	39	90	120	End	7,300
				Mid	6,318
				Break	14,621
P250012 SR80	55	100	140	End	11,000
				Mid	8,919
				Break	20,846
P250012 SRI100	68	105	150	End	14,000
				Mid	11,133
				Break	25,815

IMPERIAL

SR
Imperial

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	60	60	70	80	90	100	125	150	175	200
3,428	8,800	8,800	11,486	14,172	16,858					
2,762	5,746	5,746	7,238	8,731	10,223					
6,514	11,886	11,886	14,572	17,258	19,944					
	5,533	5,533	8,219	10,905	13,591	16,277				
	4,337	4,337	5,830	7,322	8,814	10,306				
	10,082	10,082	12,768	15,454	18,140	20,826				
		1,808	4,494	7,180	9,866	12,552	19,267			
		2,809	4,302	5,794	7,286	8,778	12,509			
		8,306	10,992	13,678	16,364	19,050	25,765			
			1,178	3,864	6,550	9,236	15,952			
			2,821	4,313	5,805	7,297	11,028			
			8,976	11,662	14,348	17,034	23,749			
					1,868	4,554	11,270	17,985		
					3,700	5,193	8,923	12,654		
					11,453	14,139	20,854	27,000		
							6,846	13,561		
							7,012	10,742		
							18,396	25,111		
5,237	12,973	12,973	16,841	20,709						
4,173	8,471	8,471	10,620	12,769						
9,786	17,522	17,522	21,390	25,258						
	8,587	8,587	12,455	16,323	20,191					
	6,576	6,576	8,724	10,873	13,022					
	15,085	15,085	18,953	22,821	26,689					
			6,229	10,097	13,965	17,833				
			6,123	8,272	10,421	12,570				
			15,814	19,682	23,550	27,417				
				5,129	8,997	12,865				
				6,058	8,207	10,355				
				16,679	20,547	24,415				

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
PP25005 SR40	1.9	24.1	24.1	End	85
				Mid	84
				Break	206
PP25005 SR60	2.8	24.1	24.1	End	182
				Mid	139
				Break	305
PP25005 SR80	3.5	24.1	24.1	End	224
				Mid	167
				Break	383
P25005 SRI100	4.5	24.1	24.1	End	249
				Mid	202
				Break	484
P25005 SRIP25	5.8	24.1	24.1	End	315
				Mid	268
				Break	630
P25005 SRI150	6.6	24.1	24.1	End	382
				Mid	303
				Break	721
P25006 SR40	2.0	20.7	24.1	End	171
				Mid	137
				Break	302
P25006 SR60	2.6	21.0	24.1	End	255
				Mid	178
				Break	403
P25006 SR80	3.7	21.7	24.1	End	322
				Mid	255
				Break	578
P25006 SRI100	4.6	22.1	24.1	End	408
				Mid	316
				Break	715
P25006 SRIP25	5.6	22.8	24.1	End	528
				Mid	386
				Break	869
P25006 SRI150	6.6	23.1	24.1	End	593
				Mid	446
				Break	1,033

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)										
3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
124	179	234	344	399	454					
99	130	161	222	252	283					
234	289	344	454	509	564					
	80	135	245	300	355	465				
	75	106	167	197	228	289				
	190	245	355	410	465	575				
		57	167	222	277	388	553			
		78	139	169	200	261	353			
		223	333	388	443	553	718			
			66	122	177	287	452	672		
			103	134	164	225	317	439		
			305	360	415	525	690	910		
						141	306	526	691	
						160	251	374	465	
						434	599	820	985	
							215	435	600	765
							216	338	430	522
							563	783	949	1,114
173	253	332	490	570	649					
127	171	215	303	347	391					
284	363	442	601	680	759					
	151	231	389	468	547	706				
	130	174	262	306	350	438				
	317	396	554	633	713	871				
		56	215	294	373	531	769			
		97	185	229	273	362	494			
		295	453	532	612	770	1,008			
			77	156	236	394	632	949		
			124	169	213	301	433	609		
			371	450	529	688	926	1,242		
					81	240	477	794	1,032	
					142	230	362	538	670	
					430	589	826	1,143	1,381	
						76	314	631	869	1,106
						170	302	478	610	742
						535	773	1,090	1,328	1,565

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
P25007 SR40	1.9	15.2	19.3	End	217
				Mid	178
				Break	403
P25007 SR60	2.9	15.9	20.7	End	334
				Mid	269
				Break	603
P25007 SR80	3.8	16.2	21.4	End	415
				Mid	345
				Break	796
P25007 SRI100	4.5	16.5	22.1	End	496
				Mid	408
				Break	964
P25007 SRIP25	5.6	17.2	23.4	End	680
				Mid	517
				Break	1,187
P25007 SRI150	6.5	17.9	24.1	End	845
				Mid	612
				Break	1,396
P25008 SR40	2.0	12.1	15.2	End	260
				Mid	231
				Break	535
P25008 SR60	2.9	12.4	16.5	End	400
				Mid	340
				Break	786
P25008 SR80	3.7	12.8	17.2	End	539
				Mid	446
				Break	1,033
P25008 SRI100	4.7	13.8	17.9	End	733
				Mid	579
				Break	1,298
P25008 SRIP25	5.8	14.1	19.3	End	825
				Mid	693
				Break	1,615
P25008 SRI150	6.8	14.5	20.0	End	991
				Mid	809
				Break	1,897

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)										
3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
244	352	459	675	783	891					
181	241	301	421	481	541					
409	517	625	840	948	1,056					
	151	259	475	583	691	906				
	150	210	330	390	450	570				
	390	498	714	821	929	1,145				
		67	283	390	498	714	1,037			
		134	254	314	374	493	673			
		416	631	739	847	1,063	1,386			
			114	222	330	545	869	1,300		
			191	251	311	430	610	850		
			573	681	788	1,004	1,328	1,759		
					107	323	646	1,077	1,401	
					202	322	502	741	921	
					621	836	1,160	1,591	1,915	
						114	437	869	1,192	1,516
						226	406	646	826	1,005
						701	1,025	1,456	1,780	2,103
310	451	592	874	1,014	1,155					
239	317	395	552	630	708					
549	690	830	1,112	1,253	1,394					
	200	341	623	764	905	1,186				
	208	286	443	521	599	756				
	549	690	972	1,112	1,253	1,535				
		94	376	517	657	939	1,362			
		180	336	414	493	649	884			
		553	835	975	1,116	1,398	1,821			
			110	251	392	674	1,096	1,660		
			204	282	360	517	752	1,065		
			624	765	906	1,188	1,610	2,173		
						357	780	1,343	1,766	
						402	637	950	1,185	
						1,091	1,514	2,077	2,500	
							497	1,061	1,483	1,906
							521	834	1,069	1,304
							1,378	1,942	2,364	2,787

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
P25010 SR40	1.9	7.9	10.3	End	431
				Mid	362
				Break	827
P25010 SR60	2.8	8.3	11.0	End	655
				Mid	522
				Break	1,196
P25010 SR80	3.7	9.0	12.4	End	825
				Mid	694
				Break	1,617
P25010 SRI100	4.6	9.3	13.1	End	1,069
				Mid	862
				Break	1,991
P25010 SRIP25	5.8	10.0	14.5	End	1,354
				Mid	1,099
				Break	2,520
P25010 SRI150	6.9	10.7	15.2	End	1,622
				Mid	1,315
				Break	3,020
P250012 SR40	1.9	5.9	7.6	End	655
				Mid	500
				Break	1,156
P250012 SR60	2.7	6.2	8.3	End	825
				Mid	714
				Break	1,652
P250012 SR80	3.8	6.9	9.7	End	1,248
				Mid	1,008
				Break	2,355
P250012 SRI100	4.7	7.2	10.3	End	1,621
				Mid	1,258
				Break	2,917

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)

3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
494	714	934	1,374	1,594	1,814	2,254				
371	493	616	860	983	1,105	1,349				
843	1,063	1,283	1,723	1,943	2,163	2,603				
	345	565	1,005	1,225	1,445	1,885				
	334	457	701	823	946	1,190				
	859	1,079	1,519	1,739	1,959	2,399				
		144	584	804	1,024	1,465	2,125			
		284	528	651	773	1,018	1,384			
		878	1,318	1,538	1,759	2,199	2,859			
			210	430	650	1,090	1,750			
			361	483	606	850	1,217			
			1,091	1,311	1,531	1,971	2,631			
						561	1,221			
						612	979			
						1,644	2,304			
							721	1,602		
							763	1,252		
							2,026	2,907		
745	1,062	1,379	2,013	2,330						
557	733	909	1,261	1,437						
1,259	1,576	1,893	2,527	2,844						
	567	883	1,517	1,834	2,151					
	519	695	1,047	1,223	1,399					
	1,301	1,618	2,251	2,568	2,885					
			814	1,131	1,448					
			753	929	1,105					
			1,897	2,214	2,531					
				569	886	1,520				
				679	855	1,207				
				1,874	2,191	2,825				

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P32510 SR40	29	245	310	End	5,540
				Mid	4,685
				Break	10,566
P32510 SR60	40	250	320	End	8,480
				Mid	6,484
				Break	14,787
P32510 SR80	54	260	340	End	11,420
				Mid	8,927
				Break	20,170
P32510 SRI100	67	265	350	End	14,030
				Mid	11,121
				Break	25,267
P32510 SRI25	82	275	350	End	17,530
				Mid	13,543
				Break	30,938
P32510 SRI50	100	285	350	End	21,040
				Mid	16,562
				Break	37,685
P32512 SR40	29	175	220	End	7,890
				Mid	6,711
				Break	15,196
P32512 SR60	41	180	230	End	12,000
				Mid	9,516
				Break	21,721
P32512 SR80	53	185	250	End	15,130
				Mid	12,348
				Break	28,788
P32512 SRI100	65	195	260	End	19,570
				Mid	15,236
				Break	35,298
P32512 SRI25	82	205	280	End	24,790
				Mid	13,672
				Break	31,420
P32512 SRI50	101	215	290	End	29,680
				Mid	16,859
				Break	38,542

IMPERIAL

SR
Imperial

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	50	60	70	80	90	100	125	150	175	200
4,703	8,520	12,337	16,154	19,971	23,788					
3,797	5,918	8,038	10,159	12,279	14,400					
8,967	12,784	16,601	20,418	24,235	28,052					
	4,298	8,115	11,932	15,749	19,566	23,383				
	4,119	6,240	8,360	10,481	12,602	14,722				
	10,531	14,348	18,165	21,982	25,799	29,616				
		2,733	6,550	10,367	14,184	18,001	27,543			
		3,796	5,917	8,037	10,158	12,279	17,580			
		10,934	14,751	18,568	22,385	26,202	35,745			
				5,270	9,087	12,904	22,446	31,989		
				5,844	7,964	10,085	15,386	20,688		
				15,767	19,584	23,401	32,944	42,486		
						7,232	16,775	26,317	35,860	
						7,663	12,964	18,266	23,567	
						20,354	29,897	39,439	48,982	
							10,028	19,571	29,113	38,656
							9,945	15,247	20,548	25,849
							25,774	35,317	44,860	54,402
6,791	12,287	17,784	23,280	28,777	34,273					
5,504	8,558	11,611	14,665	17,718	20,772					
13,023	18,520	24,017	29,513	35,010	40,506					
	5,761	11,258	16,754	22,251	27,748	33,244				
	5,752	8,806	11,860	14,913	17,967	21,020				
	14,947	20,443	25,940	31,436	36,933	42,429				
		4,191	9,688	15,185	20,681	26,178	39,919			
		5,974	9,027	12,081	15,134	18,188	25,822			
		17,313	22,810	28,307	33,803	39,300	53,041			
			3,178	8,674	14,171	19,667	33,409	47,150		
			6,139	9,193	12,247	15,300	22,934	30,568		
			18,924	24,421	29,917	35,414	49,155	62,896		
					4,819	10,315	24,057	37,798	51,539	
					8,053	11,107	18,741	26,375	34,009	
					24,174	29,670	43,412	57,153	70,894	
							13,937	27,678	41,419	55,161
							14,212	21,846	29,481	37,115
							37,228	50,969	64,711	78,452

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P32514 SR40	28	130	170	End	10,900
				Mid	8,624
				Break	20,116
P32514 SR60	40	135	180	End	16,400
				Mid	12,758
				Break	29,525
P32514 SR80	55	145	200	End	21,250
				Mid	17,204
				Break	40,645
P32514 SRI100	68	150	210	End	26,709
				Mid	21,415
				Break	50,193
P32514 SRI25	78	160	220	End	32,950
				Mid	24,877
				Break	57,573
P32514 SRI50	97	170	240	End	38,930
				Mid	30,887
				Break	71,573
P32517 SR40	29	95	120	End	15,230
				Mid	13,662
				Break	31,153
P32517 SR60	39	100	130	End	23,170
				Mid	18,115
				Break	42,284
P32517 SR80	54	105	150	End	31,110
				Mid	25,590
				Break	58,856
P32517 SRI100	66	115	160	End	38,930
				Mid	30,887
				Break	71,572
P32517 SRI25	83	125	180	End	48,580
				Mid	39,293
				Break	90,738
P32517 SRI50	98	130	190	End	58,430
				Mid	46,045
				Break	106,828

IMPERIAL

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	50	60	70	80	90	100	125	150	175	200
9,810	17,291	24,772	32,254	39,735	47,216					
8,001	12,158	16,314	20,470	24,627	28,783					
18,995	26,476	33,958	41,439	48,920	56,402					
	7,882	15,364	22,845	30,327	37,808	45,289				
	8,024	12,180	16,337	20,493	24,649	28,806				
	21,004	28,486	35,967	43,449	50,930	58,411				
		4,243	11,724	19,206	26,687	34,168	52,872			
		7,734	11,890	16,046	20,203	24,359	34,750			
		23,598	31,079	38,561	46,042	53,523	72,227			
				9,658	17,139	24,621	43,324	62,028		
				11,835	15,992	20,148	30,539	40,930		
				32,949	40,431	47,912	66,616	85,319		
					9,760	17,241	35,945	54,648		
					12,530	16,686	27,077	37,468		
					35,348	42,829	61,532	80,236		
						3,241	21,945	40,648		
						10,676	21,067	31,458		
						35,193	53,897	72,600		
12,972	24,003	35,034	46,065	57,097	68,128					
10,852	16,980	23,108	29,237	35,365	41,494					
26,094	37,125	48,156	59,187	70,219	81,250					
	12,872	23,903	34,934	45,965	56,997	68,028				
	12,527	18,656	24,784	30,913	37,041	43,170				
	32,227	43,258	54,289	65,320	76,352	87,383				
		7,331	18,362	29,393	40,425	51,456				
		11,181	17,309	23,437	29,566	35,694				
		32,919	43,950	54,981	66,013	77,044				
			5,646	16,678	27,709	38,740				
			12,012	18,141	24,269	30,398				
			37,598	48,630	59,661	70,692				
					8,543	19,574	47,152			
					15,863	21,992	37,313			
					48,565	59,596	87,175			
							31,063	58,641		
							30,561	45,882		
							78,958	88,000		

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (in.lbs)
P32519 SR40	28	70	100	End	20,300
				Mid	16,667
				Break	39,678
P32519 SR60	41	80	110	End	31,100
				Mid	24,877
				Break	57,573
P32519 SR80	50	85	120	End	38,930
				Mid	30,887
				Break	71,573
P32519 SRI100	63	95	130	End	48,580
				Mid	38,910
				Break	90,050
P32519 SRI25	75	100	140	End	58,430
				Mid	46,033
				Break	106,807

IMPERIAL

Pneumatic Stroke Torque (in.lbs) at Operating Pressure (psi)

40	50	60	70	80	90	100	125	150	175	200
18,379	32,894	47,408	61,922							
15,587	23,651	31,714	39,778							
37,734	52,249	66,763	81,277							
	14,999	29,513	44,027	58,541						
	15,440	23,504	31,567	39,631						
	40,587	55,101	69,615	84,129						
		15,513	30,027	44,542	59,056					
		17,494	25,557	33,621	41,684					
		47,465	61,979	76,494	88,000					
			11,550	26,064	40,579	55,093				
			17,534	25,598	33,661	41,724				
			51,572	66,087	80,601	88,000				
				9,308	23,822	38,336	74,622			
				18,475	26,539	34,602	54,761			
				57,203	71,717	86,232	88,000			

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
P32510 SR40	2.0	16.9	21.4	End	626
				Mid	529
				Break	1,194
P32510 SR60	2.7	17.2	22.1	End	958
				Mid	733
				Break	1,671
P32510 SR80	3.7	17.9	23.4	End	1,290
				Mid	1,009
				Break	2,279
P32510 SRI100	4.6	18.3	24.1	End	1,585
				Mid	1,256
				Break	2,855
P32510 SRI25	5.7	19.0	24.1	End	1,981
				Mid	1,530
				Break	3,495
P32510 SRI50	6.9	19.6	24.1	End	2,378
				Mid	1,871
				Break	4,258
P32512 SR40	2.0	12.1	15.2	End	892
				Mid	758
				Break	1,717
P32512 SR60	2.8	12.4	15.9	End	1,356
				Mid	1,075
				Break	2,454
P32512 SR80	3.7	12.8	17.2	End	1,710
				Mid	1,395
				Break	3,252
P32512 SRI100	4.5	13.4	17.9	End	2,211
				Mid	1,721
				Break	3,988
P32512 SRI25	5.7	14.1	19.3	End	2,801
				Mid	2,195
				Break	5,045
P32512 SRI50	6.9	14.8	20.0	End	3,354
				Mid	2,707
				Break	6,188

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)										
3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
683	995	1,308	1,934	2,246	2,559					
513	687	861	1,208	1,382	1,556					
1,165	1,477	1,790	2,416	2,728	3,041					
	519	831	1,457	1,770	2,082	2,708				
	484	657	1,005	1,179	1,352	1,700				
	1,223	1,536	2,161	2,474	2,786	3,412				
		223	849	1,161	1,474	2,100	3,038			
		381	729	903	1,076	1,424	1,945			
		1,150	1,775	2,088	2,401	3,026	3,964			
			273	586	898	1,524	2,462	3,713		
			481	655	829	1,176	1,697	2,392		
			1,459	1,772	2,084	2,710	3,648	4,899		
					258	883	1,821	3,072	4,010	
					555	902	1,424	2,119	2,640	
					1,740	2,366	3,304	4,555	5,493	
							1,059	2,310	3,248	4,186
							1,083	1,777	2,299	2,820
							2,838	4,089	5,027	5,965
985	1,436	1,886	2,787	3,237	3,687					
743	993	1,243	1,744	1,994	2,244					
1,690	2,140	2,590	3,491	3,941	4,392					
	698	1,149	2,049	2,500	2,950	3,851				
	676	926	1,427	1,677	1,927	2,428				
	1,736	2,187	3,087	3,538	3,988	4,889				
		350	1,251	1,701	2,152	3,052	4,404			
		606	1,107	1,357	1,607	2,108	2,858			
		1,833	2,734	3,184	3,634	4,535	5,886			
			516	966	1,416	2,317	3,668	5,469		
			781	1,031	1,281	1,781	2,532	3,533		
			2,295	2,745	3,195	4,096	5,447	7,248		
					360	1,260	2,611	4,413	5,764	
					807	1,308	2,058	3,059	3,810	
					2,546	3,447	4,798	6,600	7,951	
							1,468	3,269	4,620	5,972
							1,547	2,547	3,298	4,049
							4,100	5,901	7,252	8,603

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
P32514 SR40	1.9	9.0	11.7	End	1,356
				Mid	974
				Break	2,273
P32514 SR60	2.8	9.3	12.4	End	1,710
				Mid	1,441
				Break	3,336
P32514 SR80	3.8	10.0	13.8	End	2,414
				Mid	1,944
				Break	4,592
P32514 SRI100	4.7	10.3	14.5	End	3,018
				Mid	2,420
				Break	5,671
P32514 SRI25	5.4	11.0	15.2	End	3,772
				Mid	2,811
				Break	6,505
P32514 SRI50	6.7	11.7	16.5	End	4,337
				Mid	3,490
				Break	8,086
P32517 SR40	2.0	6.5	8.3	End	1,721
				Mid	1,544
				Break	3,520
P32517 SR60	2.7	6.9	9.0	End	2,618
				Mid	2,047
				Break	4,777
P32517 SR80	3.7	7.2	10.3	End	3,515
				Mid	2,891
				Break	6,650
P32517 SRI100	4.5	7.9	11.0	End	4,399
				Mid	3,490
				Break	8,086
P32517 SRI25	5.7	8.6	12.4	End	5,490
				Mid	4,439
				Break	10,252
P32517 SRI50	6.7	9.0	13.1	End	6,603
				Mid	5,202
				Break	12,070

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)										
3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
1,405	2,018	2,631	3,857	4,470	5,083	6,309	8,148			
1,069	1,409	1,750	2,431	2,772	3,112	3,793	4,815			
2,443	3,056	3,669	4,895	5,508	6,121	7,347	9,186			
	955	1,568	2,794	3,407	4,020	5,246	7,085			
	942	1,283	1,964	2,305	2,645	3,326	4,348			
	2,438	3,051	4,277	4,890	5,503	6,729	8,568			
		312	1,538	2,151	2,764	3,990	5,829			
		781	1,462	1,802	2,143	2,824	3,845			
		2,498	3,724	4,337	4,950	6,176	8,015			
				1,072	1,685	2,911	4,750	7,202		
				1,326	1,667	2,348	3,370	4,732		
				3,703	4,316	5,542	7,381	9,833		
					851	2,077	3,916	6,368		
					1,276	1,957	2,979	4,341		
					3,742	4,968	6,807	9,259		
						495	2,334	4,786		
						1,278	2,300	3,662		
						4,105	5,944	8,396		
1,903	2,807	3,711	5,519	6,422	7,326					
1,469	1,971	2,473	3,478	3,980	4,482					
3,386	4,290	5,193	7,001	7,905	8,809					
	1,549	2,453	4,261	5,165	6,069					
	1,468	1,970	2,975	3,477	3,979					
	3,736	4,640	6,448	7,352	8,255					
		581	2,389	3,293	4,196	6,004				
		1,126	2,130	2,632	3,134	4,139				
		3,472	5,280	6,183	7,087	8,895				
			952	1,856	2,760	4,567				
			1,532	2,034	2,536	3,540				
			4,562	5,466	6,370	8,177				
					594	2,402	5,113			
					1,586	2,590	4,097			
					5,116	6,924	9,635			
							3,296	6,911		
							3,334	5,343		
							8,707	9,950		

PNEUMATIC P SPRING RETURN

Supplemental Sizing Table

Model No.	Min Hold	MOP	MAWP	Position of stroke	Spring Torque (Nm)
P32519 SR40	2.0	4.8	6.9	End	2,211
				Mid	1,883
				Break	4,483
P32519 SR60	2.8	5.5	7.6	End	3,335
				Mid	2,811
				Break	6,505
P32519 SR80	3.5	5.9	8.3	End	4,446
				Mid	3,490
				Break	8,086
P32519 SRI100	4.3	6.5	9.0	End	5,558
				Mid	4,396
				Break	10,174
P32519 SRI25	5.1	6.9	9.7	End	6,602
				Mid	5,201
				Break	12,067

METRIC

Pneumatic Stroke Torque (Nm) at Operating Pressure (bar)

3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.5	10.5	12.0	13.5
2,652	3,842	5,031	7,409							
2,081	2,742	3,402	4,724							
4,839	6,028	7,218	9,596							
	1,820	3,009	5,387	6,577						
	1,814	2,475	3,796	4,457						
	4,711	5,900	8,278	9,468						
		1,427	3,806	4,995	6,184					
		1,796	3,117	3,778	4,438					
		5,037	7,416	8,605	9,794					
			1,718	2,907	4,097	6,475				
			2,211	2,871	3,532	4,853				
			6,240	7,429	8,618	9,950				
					2,203	4,582	8,150			
					2,727	4,049	6,031			
					7,615	9,993	9,950			

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