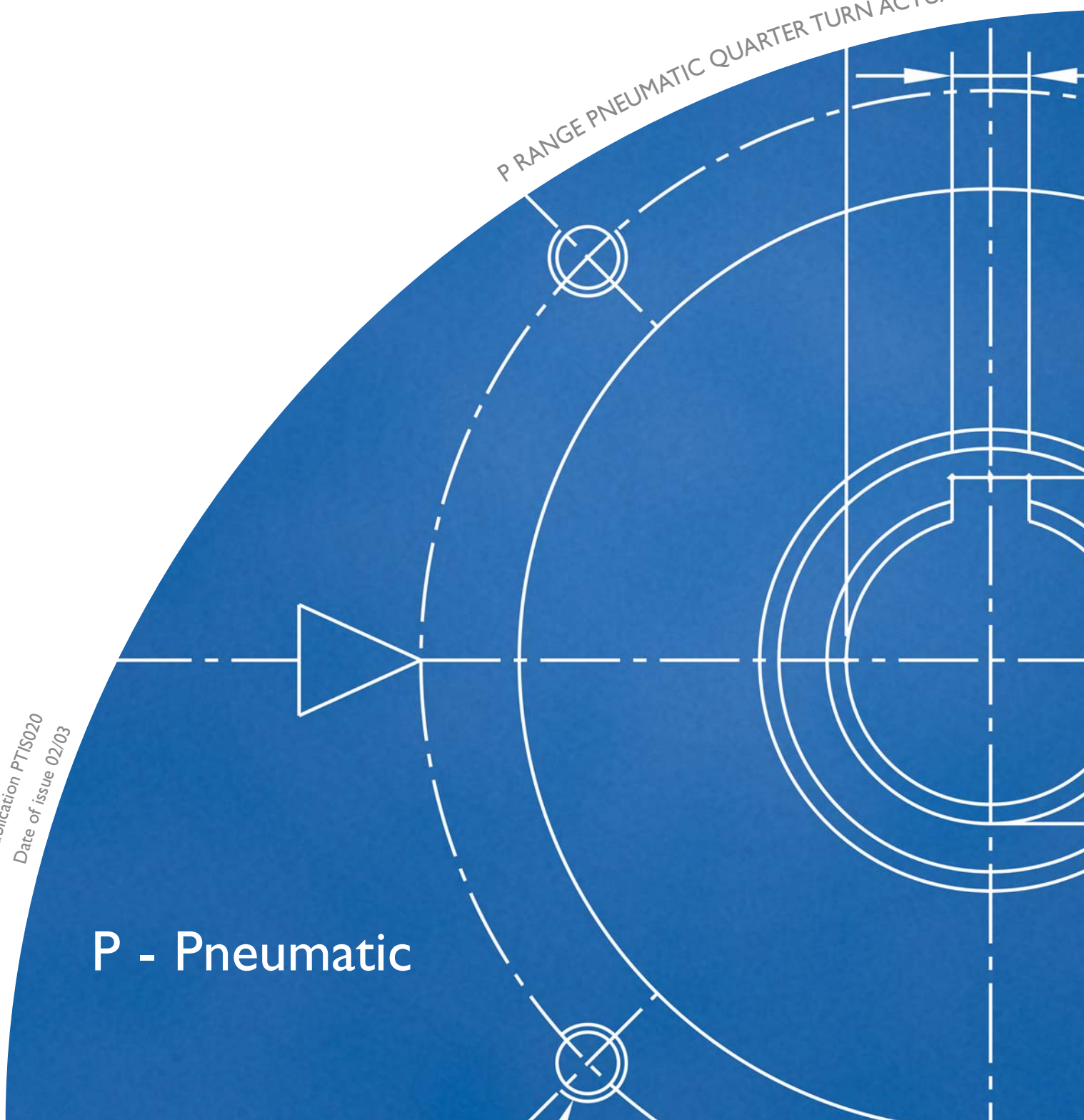
rotork
fluid system

P RANGE - METRIC AND IMPERIAL TORQUE DATA

P RANGE PNEUMATIC QUARTER TURN ACTUATORS



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P - Pneumatic

P Range Actuator

Double Acting and Spring Return
Torque Output Tables

KEY

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 DOUBLE ACTING

Model No.	MOP	MAWP	Position of stroke	40	50	60
P25005	350	350	Break Run	2680 1490	3370 1874	4030 2240
P25006	280	350	Break Run	3950 2198	4870 2710	5850 3252
P25007	210	260	Break Run	5270 2930	6580 3660	7900 4390
P25008	160	200	Break Run	6870 3820	8580 4770	10310 5730
P25010	100	130	Break Run	10700 5970	13400 7460	16100 8950
P25012	70	90	Break Run	15472 8595	19340 10744	23208 12893
P25008-2*	80	100	Break Run	13800 7640	17200 9550	30600 11500
P32508	350	350	Break Run	9820 5456	12270 6820	14720 8180
P32510	230	280	Break Run	15280 8492	19090 10610	22910 12730
P32512	160	200	Break Run	22010 12230	27520 15290	33010 18340
P32514	120	150	Break Run	29926 16626	37407 20782	44889 24938
P32510-2*	120	150	Break Run	30500 17000	38200 21200	45800 25500
P32512-2*	80	100	Break Run	44000 24400	55000 30500	66000 36600

IMPERIAL

Torque Output (in.lbs) at Operating Pressure (psi)

70	80	90	100	125	150	175	200	225	250
4710 2620	5380 2990	6070 3373	6740 3748	8420 4680	10110 5620	11790 6550	13480 7490	15160 8430	16850 9370
6820 3794	7794 4330	8760 4870	9750 5420	12180 6770	14630 8130	17060 9481	19500 10840	21930 12195	24370 13550
9210 5120	10540 5860	11860 6950	13180 7327	16470 9150	19780 10990	23060 12820			
12030 6685	13750 7640	15460 8590	17190 9550	21470 13930	25770 14320				
18800 10500	21500 11900	24200 13400	26900 14900						
27076 15042									
24100 13400	27500 15300								
17170 9540	19630 10910	22080 12270	24550 13640	30690 17050	36820 20460	42960 23870	49100 27280	55230 30690	61370 34100
26740 14860	30560 16980	34380 19100	38210 21230	47750 26530	57310 31840	66860 37150	76420 42460	85973 47768	
38520 21400	44020 24460	49536 27520	55040 30580	68790 38220	82560 45870				
52370 29095	59852 33251	67333 37407	74815 41564						
53400 29700	61100 33900	68700 38200	76300 42400						
77000 42800	88000 48900								

PNEUMATIC P DOUBLE ACTING

Model No.	MOP	MAWP	Position of stroke	3.0	3.5	4.0
P25005	24.1	24.1	Break	330	385	440
			Run	183	214	245
P25006	19.3	24.1	Break	475	555	634
			Run	264	308	352
P25007	14.5	17.9	Break	647	755	863
			Run	359	419	479
P25008	11.0	13.8	Break	845	986	1127
			Run	470	548	626
P25010	6.9	9.0	Break	1320	1541	1761
			Run	734	856	978
P25012	4.8	6.2	Break	1902	2218	2535
			Run	1056	1232	1409
P25008-2*	5.5	6.9	Break	1670	1948	2226
			Run	928	1082	1237
P32508	24.1	24.1	Break	1201	1401	1601
			Run	667	778	890
P32510	15.9	19.3	Break	1876	2189	2502
			Run	1042	1216	1390
P32512	11.0	13.8	Break	2702	3152	3603
			Run	1501	1751	2002
P32514	8.3	10.3	Break	3678	4291	4904
			Run	2043	2384	2724
P32510-2*	8.3	10.3	Break	3678	4291	4904
			Run	2043	2384	2724
P32512-2*	5.5	6.9	Break	5329	6217	7106
			Run	2961	3454	3948

METRIC

Torque Output (Nm) at Operating Pressure (bar)

5.0	6	6.0	7.0	8.5	10.5	12.0	14.0	15.1	17.0
550 306	605 336	660 367	770 428	935 520	1155 642	1320 734	1541 856	1662 923	1871 1039
792 440	872 484	951 528	1109 616	1347 748	1664 924	1901 1056	2218 1232	2393 1329	2694 1497
1078 599	1186 659	1294 719	1510 839	1833 1018	2265 1258	2588 1438			
1409 783	1549 861	1690 939	1972 1096	2394 1330	2958 1643				
2201 1223	2421 1345	2641 1467	3081 1712						
3169 1761									
2783 1546	3061 1701								
2002 1112	2202 1223	2402 1334	2802 1557	3403 1890	4203 2335	4804 2669	5604 3114	6045 3358	6805 3781
3127 1737	3440 1911	3753 2085	4378 2432	5317 2954	6568 3649	7506 4170	8757 4865	9445 5247	
4504 2502	4954 2752	5404 3002	6305 3503	7656 4253	9457 5254				
6130 3405	6743 3746	7356 4087	8582 4768						
6130 3405	6743 3746	7356 4087	8582 4768						
8882 4934	9770 5428								

PNEUMATIC P SPRING RETURN

Model No.	Output Torque (in.lbs, *Nm*) at Operating Pressure (psi, *bar*)							
	40	***3.0***	**50**	***3.5***	**60**	***4.0***	**70**	***5.0***
P25005SR	750	*85*	750	*85*	1,610	*182*	1,610	*182*
P25006SR	1,510	*171*	1,510	*171*	2,260	*255*	2,260	*255*
P25007SR	1,920	*217*	1,920	*217*	2,960	*334*	2,960	*334*
P25008SR	2,300	*260*	2,300	*260*	3,540	*400*	3,540	*400*
P25010SR	3,810	*431*	3,810	*431*	5,800	*644*	5,800	*644*
P25012SR	5,600	*633*	5,600	*633*	7,300	*825*	7,300	*825*
P32510SR	5,540	*626*	5,540	*626*	8,480	*958*	8,480	*958*
P32512SR	7,890	*892*	7,890	*892*	12,000	*1,356*	12,000	*1,356*
P32514SR	10,900	*1,231*	10,900	*1,231*	16,400	*1,853*	16,400	*1,853*
P32517SR	15,230	*1,721*	15,230	*1,721*	23,170	*2,618*	23,170	*2,618*
P32519SR	20,300	*2,294*	20,300	*2,294*	31,100	*3,514*	31,100	*3,514*

IMPERIAL / METRIC

80	*5.5*	90	*6.0*	100	*7.0*	125	*8.5*	150	*10.5*
1,980	*224*	1,980	*224*	2,200	*249*	2,790	*315*	3,380	*382*
2,850	*322*	2,850	*322*	3,610	*408*	4,670	*528*	5,250	*593*
3,670	*415*	3,670	*415*	4,390	*496*	6,020	*680*	7,480	*845*
4,770	*539*	4,770	*539*	6,490	*733*	7,300	*825*	8,770	*991*
7,300	*825*	7,300	*825*	9,460	*1,069*	11,890	*1,354*	14,350	*1,622*
11,000	*1,243*	11,000	*1,243*	14,000	*1,582*	-	-	-	-
11,420	*1,290*	11,420	*1,290*	14,030	*1,585*	17,530	*1,981*	21,040	*2,378*
15,130	*1,710*	15,130	*1,710*	19,570	*2,211*	24,790	*2,801*	29,860	*3,354*
21,250	*2,401*	21,250	*2,401*	26,709	*3,018*	32,950	*3,723*	38,930	*4,398*
31,110	*3,515*	31,110	*3,515*	38,930	*4,399*	48,580	*5,490*	58,430	*6,603*
38,930	*4,398*	38,930	*4,398*	48,580	*5,489*	58,430	*6,602*	-	-

Rotork Fluid System Centres of Excellence

Rotork Fluid System
Fluid System s.r.l
Via di Coselli 13/15
55060 Coselli, Lucca
Italy
Tel: +39 0583 94811
Fax: +39 0583 403482
Email: fluid@fluidsystem.it

Rotork Fluid System
Rotork Controls Inc
675 Mile Crossing Blvd.
Rochester. NY 14624
USA
Tel: +1 585 328 1550
Fax: +1 585 328 5848
Email: info@rotork.com

Rotork Fluid System
Rotork Controls (Singapore) Pte Ltd
426 Tagore Industrial Avenue
Singapore 787808
Tel: +65 457 1233
Fax: +65 457 6011
Email: mail@rotork.com.sg

Rotork Fluid System
Regina House, Ring Road
Bramley, Leeds LS13 4ET
UK
Tel: +44 113 236 3312
Fax: +44 113 236 3310
Email: sales@rotorkfluidsystem.co.uk

Rotork Fluid System
Rotork Controls (Canada) Ltd
#9, 820-28th Street NE
Calgary, Alberta T2A 6K1
Canada
Tel: +1 403 569 9455
Fax: +1 403 569 9414
Email: info@rotork.ca

Rotork Fluid System
Rotork Controls (Canada) Ltd
2850 Argentina Rd, Unit: #4
Mississauga, Ontario L4W 3L8
Canada
Tel: +1 905 363 0313
Fax: +1 905 363 0320
Email: info@rotork.ca

Rotork Fluid System
Rotork Controls Inc.
9777 West Gulf Bank
Suite 15A
Houston, Texas 77040
USA
Tel: +1 713 856 5640
Fax: +1 713 856 8127
Email: info@rotork.com

Rotork Fluid System
Rotork Controls Inc
2180 South McDowell Blvd.
Petaluma, CA 94954
USA
Tel: +1 707 769 4880
Fax: +1 707 769 4888
Email: info@rotork.com

All Rotork Fluid System actuators are manufactured under a third party accredited ISO9001 quality assurance program