

Quarter turn actuators DAPS

FESTO



Product range overview

Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845										
Connection	F03	F03	F04	F04	F05	F05	F05	F07	F07	Shaft height
Square	T11	T11	T11	T14	T11	T14	T17	T14	T17	
DAPS-0008-...-F03	■	–	–	–	–	–	–	–	–	20
DAPS-0015-...-F03	–	■	–	–	–	–	–	–	–	20
DAPS-0015-...-F04	–	–	■	–	–	–	–	–	–	20
DAPS-0030-...-F0305	–	■	–	–	■	–	–	–	–	20
DAPS-0030-...-F04	–	–	■	–	–	–	–	–	–	20
DAPS-0060-...-F04	–	–	–	■	–	–	–	–	–	20
DAPS-0060-...-F0507	–	–	–	–	–	■	–	■	–	20
DAPS-0106-...-F0507	–	–	–	–	–	–	■	–	■	20
Hole pattern for NAMUR accessories	30	30	30	30	30	30	30	30	30	
	30	80	80	80	80	80	80	80	80	

Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845													
Connection	F07	F10	F10	F12	F10	F12	F12	F14	F14	F16	F16	F25	Shaft height
Square	T22	T22	T27	T27	T36	T36	T46	T36	T46	T46	T46	T55	
DAPS-0180-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0240-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0360-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0480-...-F1012	–	–	■	■	–	–	–	–	–	–	–	–	30
DAPS-0720-...-F1012	–	–	■	■	–	–	–	–	–	–	–	–	30
DAPS-0960-...-F1012	–	–	–	–	■	■	–	–	–	–	–	–	30
DAPS-0960-...-F12	–	–	–	–	–	■	–	–	–	–	–	–	30
DAPS-0960-...-F14	–	–	–	–	–	–	■	–	–	–	–	–	30
DAPS-1440-...-F12	–	–	–	–	–	■	–	–	–	–	–	–	30
DAPS-1440-...-F14	–	–	–	–	–	–	■	–	–	–	–	–	30
DAPS-1920-...-F14	–	–	–	–	–	–	–	■	–	–	–	–	30
DAPS-1920-...-F1216	–	–	–	–	–	–	■	–	–	■	–	–	30
DAPS-2880-...-F16	–	–	–	–	–	–	–	–	–	–	■	–	30
DAPS-3840-...-F16	–	–	–	–	–	–	–	–	–	–	■	–	30
DAPS-5760-...-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
DAPS-8000-...-R-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
Hole pattern for NAMUR accessories	30	30	30	30	30	30	30	30	30	30	30	30	
	80	80	80	80	80	80	80	80	80	80	130	130	

Product range overview

Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845									
Connection	F03	F04	F04	F05	F05	F05	F07	F07	Shaft height
Square	T11	T11	T14	T11	T14	T17	T14	T17	
DAPS-0015-...-F0305	■	–	–	■	–	–	–	–	20
DAPS-0015-...-F04	–	■	–	–	–	–	–	–	20
DAPS-0030-...-F04	–	–	■	–	–	–	–	–	20
DAPS-0030-...-F0507	–	–	–	–	■	–	■	–	20
DAPS-0053-...-F0507	–	–	–	–	–	■	–	■	20
Hole pattern for NAMUR accessories	30	30	30	30	30	30	30	30	
	80	80	80	80	80	80	80	80	

Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845													
Connection	F07	F10	F10	F12	F10	F12	F12	F14	F14	F16	F16	F25	Shaft height
Square	T22	T22	T27	T27	T36	T36	T46	T36	T46	T46	T46	T55	
DAPS-0090-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0120-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0180-...-F0710	■	■	–	–	–	–	–	–	–	–	–	–	30
DAPS-0240-...-F1012	–	–	■	■	–	–	–	–	–	–	–	–	30
DAPS-0360-...-F1012	–	–	■	■	–	–	–	–	–	–	–	–	30
DAPS-0480-...-F1012	–	–	–	–	■	■	–	–	–	–	–	–	30
DAPS-0480-...-F12	–	–	–	–	–	■	–	–	–	–	–	–	30
DAPS-0480-...-F14	–	–	–	–	–	–	–	■	–	–	–	–	30
DAPS-0720-...-F12	–	–	–	–	–	■	–	–	–	–	–	–	30
DAPS-0720-...-F14	–	–	–	–	–	–	–	■	–	–	–	–	30
DAPS-0960-...-F14	–	–	–	–	–	–	–	–	■	–	–	–	30
DAPS-0960-...-F1216	–	–	–	–	–	–	■	–	–	■	–	–	30
DAPS-1440-...-F16	–	–	–	–	–	–	–	–	–	–	■	–	30
DAPS-1920-...-F16	–	–	–	–	–	–	–	–	–	–	■	–	30
DAPS-2880-...-F16	–	–	–	–	–	–	–	–	–	–	■	–	30
DAPS-4000-...-RS1-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
DAPS-4000-...-RS2-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
DAPS-4000-...-RS3-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
DAPS-4000-...-RS4-F25	–	–	–	–	–	–	–	–	–	–	–	■	30
Hole pattern for NAMUR accessories	30	30	30	30	30	30	30	30	30	30	30	30	
	80	80	80	80	80	80	80	80	80	80	130	130	

Product range overview

DAPS CR, double-acting											
Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845											
Connection	F03	F03	F05	F05	F05	F07	F07	F07	F10	F10	Shaft height
Square	T09	T11	T11	T14	T17	T14	T17	T22	T17	T22	
DAPS-0015-...-R-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-R-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0060-...-R-F0305-CR	–	■	■	–	–	–	–	–	–	–	20 mm
DAPS-0120-...-R-F0507-CR	–	–	–	■	–	■	–	–	–	–	30 mm
DAPS-0240-...-R-F0507-CR	–	–	–	–	■	–	■	–	–	–	30 mm
DAPS-0480-...-R-F0710-CR	–	–	–	–	–	–	–	■	–	■	30 mm
Hole pattern for NAMUR accessories	25	25	25	30	30	30	30	30	30	30	
	50	50	50	80	80	80	80	80	80	80	

DAPS CR, single-acting											
Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845											
Connection	F03	F03	F05	F05	F05	F07	F07	F07	F10	F10	Shaft height
Square	T09	T11	T11	T14	T17	T14	T17	T22	T17	T22	
DAPS-0015-...-RS1-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0015-...-RS2-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0015-...-RS3-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0015-...-RS4-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-RS1-F03-CR	–	■	■	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-RS2-F03-CR	–	■	■	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-RS3-F03-CR	–	■	■	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-RS4-F03-CR	–	■	■	–	–	–	–	–	–	–	20 mm
DAPS-0060-...-RS1-F0305-CR	–	–	–	■	–	■	–	–	–	–	30 mm
DAPS-0060-...-RS2-F0305-CR	–	–	–	■	–	■	–	–	–	–	30 mm
DAPS-0060-...-RS3-F0305-CR	–	–	–	■	–	■	–	–	–	–	30 mm
DAPS-0060-...-RS4-F0305-CR	–	–	–	■	–	■	–	–	–	–	30 mm
DAPS-0120-...-RS1-F0507-CR	–	–	–	–	■	–	■	–	–	–	30 mm
DAPS-0120-...-RS2-F0507-CR	–	–	–	–	■	–	■	–	–	–	30 mm
DAPS-0120-...-RS3-F0507-CR	–	–	–	–	■	–	■	–	–	–	30 mm
DAPS-0120-...-RS4-F0507-CR	–	–	–	–	■	–	■	–	–	–	30 mm
DAPS-0240-...-RS1-F0507-CR	–	–	–	–	–	–	–	■	–	■	30 mm
DAPS-0240-...-RS1-F0507-CR	–	–	–	–	–	–	–	■	–	■	30 mm
DAPS-0240-...-RS1-F0507-CR	–	–	–	–	–	–	–	■	–	■	30 mm
DAPS-0240-...-RS1-F0507-CR	–	–	–	–	–	–	–	■	–	■	30 mm
Hole pattern for NAMUR accessories	25	25	25	30	30	30	30	30	30	30	
	50	50	50	80	80	80	80	80	80	80	

Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°]									
Size	Swivel angle [°]	Operating pressure [bar]							
		2.5	3	4	5	5.6	6	7	8
DAPS-0008	0	3.1	3.8	5	6.3	7	7.5	8.8	10
	50	1.6	1.9	2.5	3.1	3.5	3.8	4.4	5
	90	3.1	3.8	5	6.3	7	7.5	8.8	10
DAPS-0015	0	6.7	8	10.7	13.4	15	16.1	18.8	21.4
	50	3.3	4	5.4	6.7	7.5	8	9.4	10.7
	90	5	6	8.1	10.1	11.3	12.1	14.1	16.1
DAPS-0030	0	13.4	16.1	21.4	26.8	30	32.1	37.5	42.9
	50	6.7	8	10.7	13.4	15	16.1	18.8	21.4
	90	10	12	16.1	20.1	22.5	24.1	28.1	32.1
DAPS-0060	0	26.8	32.1	42.9	53.6	60	64.3	75	85.7
	50	13.4	16.1	21.4	26.8	30	32.1	37.5	42.9
	90	20.1	24.1	32.1	40.2	45	48.2	56.3	64.3
DAPS-0106	0	47.5	57	76	95	106	114	133	151
	50	23.5	28	38	47	53	57	66	76
	90	35.5	43	57	71	80	86	100	114
DAPS-0180	0	80.4	96	128.4	160.8	180	193.2	225.6	264.8
	50	40.2	48	64.8	80.4	90	96	112.8	128.4
	90	60.6	72	97.2	121.2	135	145.2	169.2	193.2
DAPS-0240	0	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	50	53.5	64.3	85.7	107.1	120	128.6	150	171.4
	90	80.3	96.4	128.6	160.7	180	192.9	225	257.1
DAPS-0360	0	160.8	192	256.8	321.6	360	386.4	451.2	513.6
	50	80.4	96	129.6	160.8	180	192	225.6	264.8
	90	121.2	144	194.4	242.4	270	290.4	338.4	386.4
DAPS-0480	0	214.3	257.1	342.9	428.6	480	514.3	600	685.7
	50	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	90	160.7	192.9	257.1	321.4	360	358.7	450	514.3
DAPS-0720	0	321.4	384	513.6	643.2	720	772.8	902.4	1027.2
	50	160.7	192	259.2	321.6	360	384	451.2	529.6
	90	241	288.1	388.8	484.8	540	580.8	676.8	772.8
DAPS-0960	0	428.6	514.3	685.7	857.1	960	1028.6	1200	1371.4
	50	214.3	257.1	342.9	428.6	480	514.3	600	685.7
	90	321.4	385.7	514.3	642.9	720	771.4	900	1028.6
DAPS-1440	0	642.8	768	1027.2	1286.4	1440	1545.6	1804.8	2057.4
	50	321.4	384	518.4	643.2	720	768	902.4	1059.2
	90	482.1	576	777.6	969.9	1080	1161.6	1353.6	1545.6
DAPS-1920	0	857.1	1028.6	1371.4	1714.3	1920	2057.1	2400	2742.9
	50	428.6	514.3	685.8	857.1	960	1028.6	1200	1371.4
	90	642.9	771.4	1028.6	1285.7	1440	1542.9	1800	2057.1
DAPS-2880	0	1285	1542	2057	2571	2880	3085	3600	4114
	50	642	771	1028	1285	1440	1542	1800	2057
	90	856	1028	1371	1741	1920	2056	2400	2742
DAPS-3840	0	1714	2057	2743	3428	3840	4114	4800	5485
	50	857	1028	1371	1714	1920	2057	2400	2742
	90	1285	1543	2057	2571	2880	3085	3600	4114
DAPS-5760	0	2571	3085	4114	5142	5760	6171	7200	8228
	50	1285	1542	2057	2571	2880	3085	3600	4141
	90	1928	2313	3085	3856	4320	4628	5400	6171
DAPS-8000	0	3571.4	4285.7	5714.3	7142.9	8000	8571.4	10000	–
	50	1785.7	2142.9	2857.1	3571.4	4000	4285.7	5000	–
	90	2678.6	3214.3	4285.7	5357.1	6000	6428.6	7500	–

Torque for size at 5.6 bar and swivel angle 0°



Note
The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				2.5			2.8			3			3.5			4.2		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0015																		
1	5.0	3.7	7.5	6.2	2.9	3.7	7.5	3.7	5	8.4	4.2	5.9	10.6	5.6	8.1	13.8	7.4	11.3
2	6.3	4.7	9.4	–			–			7.2	3.3	4	9.4	4.7	6.3	12.6	6.5	9.4
3	7.5	5.6	11.3	–			–			–			8.2	3.7	4.4	11.3	5.6	7.5
4	10.0	7.5	15	–			–			–			–			–		
DAPS-0030																		
1	10.0	7.5	15	12.3	5.9	7.3	15	7.5	10	16.8	8.6	11.8	21.3	11.3	16.3	27.5	15	22.5
2	12.5	9.4	18.8	–			–			14.3	6.7	8	18.8	9.4	12.5	25.1	13.2	18.8
3	15.0	11.3	22.5	–			–			–			16.3	7.5	8.8	22.5	11.3	15
4	20.0	15	30	–			–			–			–			–		
DAPS-0053																		
1	17.5	13	26.5	21.8	10.2	12.8	26.5	13	17.5	29.6	14.9	20.6	37.5	19.5	28.5	48.5	26	39.5
2	22	16.5	33	–			–			25.1	11.8	14.1	33	16.5	22	44	23.1	33
3	26	19.5	40	–			–			–			29	13	15	40	19.5	26
4	35	26	53	–			–			–			–			–		
DAPS-0090																		
1	30	22.5	45	37	17.7	22	45	22.5	30	50.4	25.7	35.4	63.8	33.8	48.8	82.5	45	67.5
2	37.5	28.1	56.3	–			–			42.9	20.1	24.1	56.3	28.1	37.5	75.1	39.4	56.3
3	45	33.9	67.5	–			–			–			48.8	22.6	26.3	67.5	33.9	45
4	60	45	90	–			–			–			–			–		
DAPS-0120																		
1	40	30	60	49.3	23.6	29.3	60	30	40	67.1	34.3	47.1	85	45	65	110	60	90
2	50	37.5	75	–			–			57.1	26.8	32.1	75	37.5	50	100	52.5	75
3	60	45	90	–			–			–			65	30	35	90	45	60
4	80	60	120	–			–			–			–			–		
DAPS-0180																		
1	60	45	90	73.9	35.4	43.9	90	45	60	100.7	51.4	70.7	127.5	67.5	97.5	165	90	135
2	75	56.3	112.5	–			–			85.7	40.2	48.2	112.5	56.3	75	150	78.8	112.5
3	90	67.5	135	–			–			–			97.5	45	52.5	135	67.5	90
4	120	90	180	–			–			–			–			–		
DAPS-0240																		
1	80	60	120	98.6	47.1	58.6	120	60	80	134.3	68.6	94.3	170	90	130	220	120	180
2	100	75	150	–			–			114.3	53.6	64.3	150	75	100	200	105	150
3	120	90	180	–			–			–			130	60	70	180	90	120
4	160	120	240	–			–			–			–			–		
DAPS-0360																		
1	120	90	180	147.9	70.7	87.9	180	90	120	201.4	102.9	141.1	255	135	195	330	180	270
2	150	112.5	225	–			–			171.4	80.4	96.4	225	112.5	150	300	157.5	225
3	180	135	270	–			–			–			195	90	105	270	135	180
4	240	180	360	–			–			–			–			–		



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																
Spring force	Operating pressure [bar]															
	5			5.6			6			7			8			
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	
DAPS-0015																
1	–			–			–			–			–			
2	16.1	8.7	13	18.8	10.3	15.7	–			–			–			
3	14.9	7.7	11.1	17.6	9.3	13.8	19.4	10.4	15.6	23.8	13.1	20	28.3	15.7	24.5	
4	12.3	5.9	7.3	15	7.5	10	16.8	8.6	11.8	21.3	11.3	16.3	25.7	13.9	20.7	
DAPS-0030																
1	–			–			–			–			–			
2	32.2	17.5	25.9	37.6	20.7	31.3	–			–			–			
3	29.6	15.6	22.1	35	18.8	27.5	38.6	21	31.1	47.5	26.4	40	56.4	31.7	48.9	
4	24.6	11.8	14.6	30	15	20	33.6	17.1	23.6	42.5	22.5	32.5	51.4	27.9	41.4	
DAPS-0053																
1	–			–			–			–			–			
2	56.6	30.6	45.6	66	36.3	55	–			–			–			
3	52.6	26.9	38.6	62	32.5	48	68.3	36.2	54.3	84	45.5	70	99.7	54.8	85.7	
4	43.6	20.4	25.6	53	26	35	59.3	29.7	41.3	75	39	57	90	48.3	72.7	
DAPS-0090																
1	–			–			–			–			–			
2	96.5	52.2	77.7	112.6	61.9	93.8	–			–			–			
3	88.9	46.8	66.4	105	56.5	82.5	115.7	63	93.2	142.5	79.1	120	169.3	95.2	146.8	
4	73.9	35.4	43.9	90	45	60	100.7	51.4	70.7	127.5	67.5	97.5	154.3	83.6	124.3	
DAPS-0120																
1	–			–			–			–			–			
2	128.6	69.6	103.6	150	82.5	125	–			–			–			
3	118.6	62.1	88.6	140	75	110	154.3	83.6	124.3	190	105	160	225.7	126.4	195.7	
4	98.6	47.1	58.6	120	60	80	134.4	68.6	94.3	170	90	130	205.7	111.4	165.7	
DAPS-0180																
1	–			–			–			–			–			
2	192.9	104.5	155.4	225	123.8	187.5	–			–			–			
3	177.9	93.2	132.9	210	112.5	165	231.4	125.4	186.4	285	157.5	240	338.6	189.6	293.6	
4	147.9	707.7	87.9	180	90	120	201.4	102.9	141.4	255	135	195	308.6	167.6	284.6	
DAPS-0240																
1	–			–			–			–			–			
2	257.1	139.3	207.1	300	165	250	–			–			–			
3	237.1	124.3	177.1	280	150	220	308.6	167.1	248.6	380	210	320	451.4	252.9	391.4	
4	197.1	94.3	117.1	240	120	160	268.6	137.1	188.6	340	180	260	411.4	222.9	331.4	
DAPS-0360																
1	–			–			–			–			–			
2	385.7	208.9	310.7	450	247.5	375	–			–			–			
3	355.7	186.4	265.7	420	225	330	462.9	250.7	372.9	570	315	480	677.1	379.3	587.1	
4	295.7	141.4	175.7	360	180	240	402.9	205.7	282.9	510	270	390	617.1	334.3	497.1	

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				2.5			2.8			3			3.5			4.2		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0480																		
1	160	120	240	197.1	94.3	117.1	240	120	160	268.6	137.1	188.6	340	180	260	440	240	360
2	200	150	300	–	–	–	–	–	–	228.6	107.1	128.6	300	150	200	400	210	300
3	240	180	360	–	–	–	–	–	–	–	–	–	260	120	140	360	180	240
4	320	240	480	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0720																		
1	240	180	360	295.7	141.4	175.7	360	180	240	402.9	205.7	282.9	510	270	390	660	360	540
2	300	225	450	–	–	–	–	–	–	342.9	160.7	192.9	450	225	300	600	315	450
3	360	270	540	–	–	–	–	–	–	–	–	–	390	180	210	540	270	360
4	480	360	720	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0960																		
1	320	240	480	394.3	188.6	234.3	480	240	320	537.1	274.3	377.1	680	360	520	880	480	720
2	400	300	600	–	–	–	–	–	–	457.1	214.3	257.1	600	300	400	800	420	600
3	480	360	720	–	–	–	–	–	–	–	–	–	520	240	280	720	360	480
4	640	480	960	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-1440																		
1	411	308	617	674	346	449	788	411	582	874	462	668	1088	590	882	1388	770	1182
2	600	450	900	–	–	–	–	–	–	685	321	385	900	450	600	1200	630	900
3	720	540	1080	–	–	–	–	–	–	–	–	–	780	360	420	1080	540	720
4	960	720	1440	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-1920																		
1	640	480	960	778	377	468	960	480	640	1074	548	754	1360	720	1040	1760	960	1440
2	800	600	1200	–	–	–	–	–	–	914	428	514	1200	600	800	1600	840	1200
3	960	720	1440	–	–	–	–	–	–	–	–	–	1040	480	560	1440	720	960
4	1280	960	1920	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-2880																		
1	960	720	1440	1183	566	703	1440	720	960	1611	823	1131	2040	1080	1560	2640	1440	2160
2	1200	900	1800	–	–	–	–	–	–	1370	643	771	1800	900	1200	2400	1260	1800
3	1440	1080	2160	–	–	–	–	–	–	–	–	–	1560	720	840	2160	1080	1440
4	1920	1440	2880	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-4000																		
1	1333	1000	2000	1524	714	857	2000	1000	1333	2238	1143	1571	2833	1500	2166	3666	2000	2999
2	1666	1250	2500	–	–	–	–	–	–	1905	893	1071	2500	1250	1666	3333	1750	2499
3	1999	1500	3000	–	–	–	–	–	–	–	–	–	2167	1000	1166	3000	1500	1999
4	2666	2000	4000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																
Spring force	Operating pressure [bar]															
	5			5.6			6			7			8			
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	
DAPS-0480																
1	–			–			–			–			–			
2	514.3	278.6	414.3	600	330	500	–			–			–			
3	474.3	248.6	354.3	560	300	440	617.1	334.3	497.1	760	420	640	902.9	505.7	782.9	
4	394.3	118.6	234.3	480	240	320	537.1	274.3	377.1	680	360	520	822.9	445.7	662.9	
DAPS-0720																
1	–			–			–			–			–			
2	771.4	417.9	621.4	900	495	750	–			–			–			
3	711.4	372.9	531.4	840	450	660	925.7	501.4	745.7	1140	630	960	1354	758.6	1174	
4	591.4	282.9	351.4	720	360	480	805.7	411.4	565.7	1020	540	780	1234	668.6	994.3	
DAPS-0960																
1	–			–			–			–			–			
2	1028.6	557.1	828.6	1200	660	1000	–			–			–			
3	948.6	497.1	708.6	1120	600	880	1234.3	668.6	994.3	1520	840	1280	1805.7	1011.4	1565.7	
4	788.6	377.1	468.6	960	480	640	1074.3	548.6	754.3	1360	720	1040	1645.7	891.4	1325.7	
DAPS-1440																
1	–			–			–			–			–			
2	1542	835	1242	1800	990	1500	–			–			–			
3	1422	745	1062	1680	900	1320	1851	1002	1491	2280	1260	1920	2708	1517	2348	
4	1182	565	702	1440	720	960	1611	822	1131	2040	1080	1560	2468	1337	1988	
DAPS-1920																
1	–			–			–			–			–			
2	2057	1114	1657	2400	1320	2000	–			–			–			
3	1897	994	1417	2240	1200	1760	2468	1337	1988	3040	1680	2560	3611	2022	3131	
4	1577	754	937	1920	960	1280	2148	1097	1508	2720	1440	2080	3291	1782	2651	
DAPS-2880																
1	–			–			–			–			–			
2	3085	1671	2485	3600	1980	3000	–			–			–			
3	2845	1491	2125	3360	1800	2640	3702	2006	2982	4560	2520	3840	5417	3034	4697	
4	2365	1131	1405	2880	1440	1920	3222	1645	2262	4080	2160	3120	4937	2674	3977	
DAPS-4000																
1	–			–			–			–			–			
2	4285	2321	3451	5000	2750	4166	–			–			–			
3	3952	2071	2951	4666	2500	3665	5143	2786	4141	6333	3500	5332	7523	4214	6522	
4	3286	1571	1952	4000	2000	2666	4476	2286	3142	5666	3000	4332	6857	3714	5523	

Torque for size at 5.6 bar and swivel angle 0°



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°]									
Size	Swivel angle [°]	Operating pressure [bar]							
		2.5	3	4	5	5.6	6	7	8
DAPS-0015	0	6.7	8	10.7	13.4	15	16.1	18.8	21.4
	50	3.3	4	5.4	6.7	7.5	8	9.4	10.7
	90	5	6.1	8.1	10.1	11.3	12.1	14.1	16.1
DAPS-0030	0	13.4	16.1	21.4	26.8	30	32.1	37.5	42.9
	50	6.7	8	10.7	13.4	15	16.1	18.8	21.4
	90	10	12.1	16.1	20.1	22.5	24.1	28.1	32.1
DAPS-0060	0	26.8	32.1	42.9	53.6	60	64.3	75	85.7
	50	13.4	16.1	21.4	26.8	30	32.1	37.5	42.9
	90	20.1	24.1	32.1	40.2	45	48.2	56.3	64.3
DAPS-0120	0	53.6	64.3	85.7	107.1	120	128.6	150	171.4
	50	26.8	32.1	42.9	53.6	60	64.3	75	85.7
	90	40.2	48.2	64.3	80.4	90	96.4	112.5	128.6
DAPS-0240	0	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	50	53.6	64.3	85.7	107.1	120	128.6	150	171.4
	90	80.4	96.4	128.6	160.7	180	192.9	225	257.1
DAPS-0480	0	214.3	257.1	342.9	428.6	480	514.3	600	685.7
	50	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	90	160.7	192.9	257.1	321.4	360	385.7	450	514.3

Torque for size at 5.6 bar and swivel angle 0°



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				2.5			2.8			3			3.5			4.2		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0015																		
1	5.0	3.7	7.5	6.2	2.9	3.7	7.5	3.7	5	8.4	4.2	5.9	10.6	5.6	8.1	13.8	7.4	11.3
2	6.3	4.7	9.4	–	–	–	–	–	–	7.2	3.3	4	9.4	4.7	6.3	12.6	6.5	9.4
3	7.5	5.6	11.3	–	–	–	–	–	–	–	–	–	8.2	3.7	4.4	11.3	5.6	7.5
4	10.0	7.5	15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0030																		
1	10.0	7.5	15	12.3	5.9	7.3	15	7.5	10	16.8	8.6	11.8	21.3	11.3	16.3	27.5	15	22.5
2	12.5	9.4	18.8	–	–	–	–	–	–	14.3	6.7	8	18.8	9.4	12.5	25.1	13.2	18.8
3	15.0	11.3	22.5	–	–	–	–	–	–	–	–	–	16.3	7.5	8.8	22.5	11.3	15
4	20.0	15	30	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0060																		
1	20	15	30	24.6	11.8	14.6	30	15	20	33.6	17.1	23.6	42.5	22.5	32.5	55	30	45
2	25	18.8	37.5	–	–	–	–	–	–	28.6	13.4	16.1	37.5	18.8	25	50	26.3	37.5
3	30	22.5	45	–	–	–	–	–	–	–	–	–	32.5	15	17.5	45	22.5	30
4	40	30	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0120																		
1	40	30	60	49.3	23.6	29.3	60	30	40	67.1	34.3	47.1	85	45	65	110	60	90
2	50	37.5	75	–	–	–	–	–	–	57.1	26.8	32.1	75	37.5	50	100	52.5	75
3	60	45	90	–	–	–	–	–	–	–	–	–	65	30	35	90	45	60
4	80	60	120	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-0240																		
1	80	60	120	98.6	47.1	58.6	120	60	80	134.3	68.6	94.3	170	90	130	220	120	180
2	100	75	150	–	–	–	–	–	–	114.3	53.6	64.3	150	75	100	200	105	150
3	120	90	180	–	–	–	–	–	–	–	–	–	130	60	70	180	90	120
4	160	120	240	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				5			5.6			6			7			8		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0015																		
1	5.0	3.7	7.5	–			–			–			–			–		
2	6.3	4.7	9.4	16.1	8.7	13	18.8	10.3	15.7	–			–			–		
3	7.5	5.6	11.3	14.9	7.7	11.1	17.6	9.3	13.8	19.4	10.4	15.6	23.8	13.1	20	28.3	15.7	24.5
4	10.0	7.5	15	12.3	5.9	7.3	15	7.5	10	16.8	8.6	11.8	21.3	11.3	16.3	25.7	13.9	20.7
DAPS-0030																		
1	10.0	7.5	15	–			–			–			–			–		
2	12.5	9.4	18.8	32.2	17.5	25.9	37.6	20.7	31.3	–			–			–		
3	15.0	11.3	22.5	29.6	15.6	22.1	35	18.8	27.5	38.6	21	31.1	47.5	26.4	40	56.4	31.7	48.9
4	20.0	15	30	24.6	11.8	14.6	30	15	20	33.6	17.1	23.6	42.5	22.5	32.5	51.4	27.9	41.4
DAPS-0060																		
1	20	15	30	–			–			–			–			–		
2	25	18.8	37.5	64.3	34.9	51.8	75	41.4	62.5	–			–			–		
3	30	22.5	45	59.3	31.1	44.3	70	37.5	55	77.1	41.8	62.1	95	52.5	80	112.9	63.2	97.9
4	40	30	60	49.3	23.6	29.3	60	30	40	67.1	34.3	47.1	85	45	65	102.9	55.7	82.9
DAPS-0120																		
1	40	30	60	–			–			–			–			–		
2	50	37.5	75	128.6	69.6	103.6	150	82.5	125	–			–			–		
3	60	45	90	118.6	62.1	88.6	140	75	110	154.3	83.6	124.3	190	105	160	225.7	126.4	195.7
4	80	60	120	98.6	47.1	58.6	120	60	80	134.3	68.6	94.3	170	90	130	205.7	111.4	165.7
DAPS-0240																		
1	80	60	120	–			–			–			–			–		
2	100	75	150	257.1	139.3	207.1	300	165	250	–			–			–		
3	120	90	180	237.1	124.3	177.1	280	150	220	308.6	167.1	248.6	380	210	320	451.4	252.9	391.4
4	160	120	240	197.1	94.3	117.1	240	120	160	268.6	137.1	188.6	340	180	260	411.4	222.9	331.4

Torque for size at 5.6 bar and swivel angle 0°

 **Note**

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°]									
Size	Swivel angle [°]	Operating pressure [bar]							
		2.5	3	4	5	5.6	6	7	8
DAPS-0106	0°	47.3	56.8	75.7	94.6	106	113.6	132.5	151.4
	50°	23.7	28.4	37.9	47.3	53	56.8	66.3	75.7
	90°	35.7	72.9	57.1	71.4	80	85.7	100	114.3
DAPS-0180	0°	80.4	96.4	128.6	160.7	180	192.9	225	257.1
	50°	40.2	48.2	64.3	80.4	90	96.4	112.5	128.6
	90°	60.3	72.3	96.4	120.5	135	144.6	168.8	192.9
DAPS-0240	0°	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	50°	53.6	64.3	85.7	107.1	120	128.6	150	171.4
	90°	80.4	96.4	128.6	160.7	180	192.9	225	257.1
DAPS-0360	0°	160.7	192.9	257.1	321.4	360	385.7	450	514.3
	50°	80.4	96.4	128.6	160.7	180	192.9	225	257.1
	90°	120.5	144.6	192.9	241.1	270	289.3	337.5	385.7
DAPS-0480	0°	214.3	257.1	342.9	428.6	480	514.3	600	685.7
	50°	107.1	128.6	171.4	214.3	240	257.1	300	342.9
	90°	160.7	192.9	257.1	321.4	360	385.7	450	514.3
DAPS-0720	0°	321.4	385.7	514.3	642.9	720	771.4	900	1028.6
	50°	160.7	192.9	257.1	321.4	360	385.7	450	514.3
	90°	241.1	289.3	385.7	482.1	540	578.6	675	771.4
DAPS-0960	0°	428.6	514.3	685.7	857.1	960	1028.6	1200	1371.4
	50°	214.3	257.1	342.9	428.6	480	514.3	600	685.7
	90°	321.4	385.7	514.3	642.9	720	771.4	900	1028.6
DAPS-1440	0°	642.9	771.4	1028.6	1285.7	1440	1542.9	1800	2057.1
	50°	321.4	385.7	514.3	642.9	720	771.4	900	1028.6
	90°	482.1	578.6	771.4	964.3	1080	1157.1	1350	1542.9
DAPS-1920	0°	857.1	1028.6	1371.4	1714.3	1920	2057.1	2400	2742.9
	50°	428.6	514.3	685.7	857.1	960	1028.6	1200	1371.4
	90°	642.9	771.4	1028.6	1285.7	1440	1542.9	1800	2057.1

Torque for size at 5.6 bar and swivel angle 0°

 **Note**

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				2.5			2.8			3			3.5			4.2		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0053																		
1	17.5	13	26.5	20.2	9.3	11.2	26.5	13	17.5	29.6	14.9	20.6	37.5	19.5	28.5	48.5	26	39.5
2	22	16.5	33	–			–			25.1	11.8	14.1	33	16.5	22	44	23.1	33
3	26	19.5	40	–			–			–			29	13	15	40	19.5	26
4	35	26	53	–			–			–			–			–		
DAPS-0090																		
1	30	22.5	45	34.3	16.1	19.3	45	22.5	30	50.4	25.7	35.4	63.8	33.8	48.8	82.5	45	67.5
2	37.5	28.1	56.3	–			–			42.9	20.1	24.1	56.3	28.1	37.5	75.1	39.4	56.3
3	45	33.9	67.5	–			–			–			48.8	22.6	26.3	67.5	33.9	45
4	60	45	90	–			–			–			–			–		
DAPS_0120																		
1	40	30	60	45.7	21.4	25.7	60	30	40	67.1	34.3	47.1	85	45	65	110	60	90
2	50	37.5	75	–			–			57.1	26.8	32.1	75	37.5	50	100	52.5	75
3	60	45	90	–			–			–			65	30	35	90	45	60
4	80	60	120	–			–			–			–			–		
DAPS_0180																		
1	60	45	90	68.6	32.1	38.6	90	45	60	100.7	51.4	70.7	127.5	67.5	97.5	165	90	135
2	75	56.3	112.5	–			–			85.7	40.2	48.2	112.5	56.3	75	150	78.8	112.5
3	90	67.5	135	–			–			–			97.5	45	52.5	135	67.5	90
4	120	90	180	–			–			–			–			–		
DAPS_0240																		
1	80	60	120	91.4	42.9	51.4	120	60	80	134.3	68.6	94.3	170	90	130	220	120	180
2	100	75	150	–			–			114.3	53.6	64.3	150	75	100	200	105	150
3	120	90	180	–			–			–			130	60	70	180	90	120
4	160	120	240	–			–			–			–			–		



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				5			5.6			6			7			8		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0053																		
1	17.5	13	26.5	–			–			–			–			–		
2	22	16.5	33	56.6	30.6	45.6	66	36.3	55	–			–			–		
3	26	19.5	40	52.6	26.9	38.6	62	32.5	48	68.3	36.2	54.3	84	45.5	70	99.7	54.8	85.7
4	35	26	53	43.6	20.4	25.6	53	26	35	59.3	29.7	41.3	75	39	57	90.7	48.3	72.7
DAPS-0090																		
1	30	22.5	45	–			–			–			–			–		
2	37.5	28.1	56.3	96.5	52.2	77.7	112.6	61.9	93.8	–			–			–		
3	45	33.9	67.5	88.9	46.8	66.4	105	56.5	82.5	115.7	63	93.2	142.5	79.1	120	169.3	95.2	146.8
4	60	45	90	73.9	35.4	43.9	90	45	60	100.7	51.4	70.7	127.5	67.5	97.5	154.3	83.6	124.3
DAPS-0120																		
1	40	30	60	–			–			–			–			–		
2	50	37.5	75	128.6	69.6	103.6	150	82.5	125	–			–			–		
3	60	45	90	118.6	62.1	88.6	140	75	110	154.3	83.6	124.3	190	105	160	225.7	126.4	195.7
4	80	60	120	98.6	47.1	58.6	120	60	80	134.3	68.6	94.3	170	90	130	205.7	111.4	165.7
DAPS_0180																		
1	60	45	90	–			–			–			–			–		
2	75	56.3	112.5	192.9	104.5	155.4	225	123.8	187.5	–			–			–		
3	90	67.5	135	177.9	93.2	132.9	210	112.5	165	231.4	125.4	186.4	285	157.5	240	338.6	189.6	293.6
4	120	90	180	147.9	70.7	87.9	180	90	120	201.4	102.9	141.4	255	135	195	308.6	167.1	248.6
DAPS_0240																		
1	80	60	120	–			–			–			–			–		
2	100	75	150	257.1	139.3	207.1	300	165	250	–			–			–		
3	120	90	180	237.1	124.3	177.1	280	150	220	308.6	167.1	248.6	380	210	320	451.4	252.9	391.4
4	160	120	240	197.1	94.3	117.1	240	120	160	268.6	137.1	188.6	340	180	260	411.4	222.9	331.4

Torque for size at 5.6 bar and swivel angle 0°



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				2.5			2.8			3			3.5			4.2		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0360																		
1	120	90	180	137.1	64.3	77.1	180	90	120	201.4	102.9	141.4	255	135	195	330	180	270
2	150	112.5	225	–			–			171.4	80.4	96.4	225	112.5	150	300	157.5	225
3	180	135	270	–			–			–			195	90	105	270	135	180
4	240	180	360	–			–			–			–			–		
DAPS-0480																		
1	160	120	240	182.9	85.7	102.9	240	120	160	268.6	137.1	188.6	340	180	260	440	240	360
2	200	150	300	–			–			228.6	107.1	128.6	300	150	200	400	210	300
3	240	180	360	–			–			–			260	120	140	360	180	240
4	320	240	480	–			–			–			–			–		
DAPS_0720																		
1	240	180	360	274.3	128.6	154.3	360	180	240	402.9	205.7	282.9	510	270	390	660	360	540
2	300	225	450	–			–			342.9	160.7	192.9	450	225	300	600	315	450
3	360	270	540	–			–			–			390	180	210	540	270	360
4	480	360	720	–			–			–			–			–		
DAPS_0960																		
1	320	240	480	366	171	206	480	240	320	537	274	377	680	360	520	880	480	720
2	400	300	600	–			–			457	214	257	600	300	400	800	420	600
3	480	360	720	–			–			–			520	240	280	720	360	480
4	640	480	960	–			–			–			–			–		



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.

Actual torque [Nm] as a function of operating pressure [bar], spring force and swivel angle [°]																		
Spring force	Spring torque [Nm]			Operating pressure [bar]														
				5			5.6			6			7			8		
	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°	0°	50°	90°
DAPS-0360																		
1	120	90	180	–			–			–			–			–		
2	150	112.5	225	385.7	208.9	310.7	450	247.5	375	–			–			–		
3	180	135	270	355.7	186.4	265.7	420	225	330	462.9	250.7	372.9	570	315	480	677.1	379.3	587.1
4	240	180	360	295.7	141.4	175.7	360	180	240	402.9	205.7	282.9	510	270	390	617.1	334.3	497.1
DAPS-0480																		
1	160	120	240	–			–			–			–			–		
2	200	150	300	514.3	278.6	414.3	600	330	500	–			–			–		
3	240	180	360	474.3	248.6	354.3	560	300	440	617.1	334.3	497.1	760	420	640	902.9	505.7	782.9
4	320	240	480	394.3	188.6	234.3	480	240	320	537.1	274.3	377.1	680	360	520	822.9	445.7	662.9
DAPS-0720																		
1	240	180	360	–			–			–			–			–		
2	300	225	450	771.4	417.9	621.4	900	495	750	–			–			–		
3	360	270	540	711.4	372.9	531.4	840	450	660	925.7	501.4	745.7	1140	630	960	1354	758.6	1174
4	480	360	720	591.4	282.9	351.4	720	360	480	805.7	411.4	565.7	1020	540	780	1234	668.6	994.3
DAPS_0960																		
1	320	240	480	–			–			–			–			–		
2	400	300	600	1029	557	829	1200	660	1000	–			–			–		
3	480	360	720	949	497	709	1120	600	880	1234	669	994	1520	840	1280	1806	1011	1566
4	640	480	960	789	377	469	960	480	640	1074	549	754	1360	720	1040	1646	891	1326



Torque for size at 5.6 bar and swivel angle 0°



Note

The operating torque of the actuator must not be greater than the maximum permissible torque listed in ISO 5211 in relation to the size of the mounting flange and of the coupling.