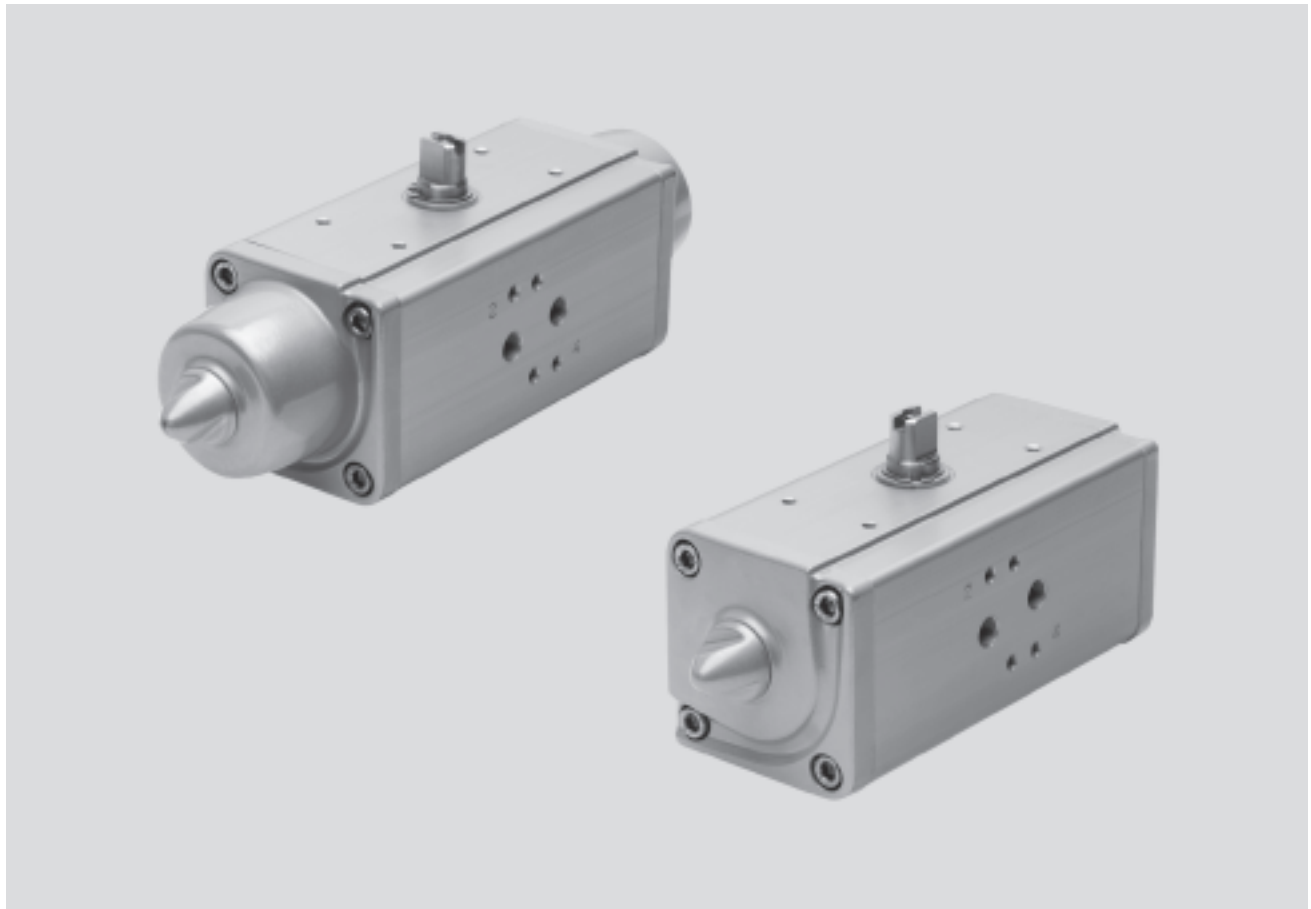


Quarter turn actuators DAPS

Key features

FESTO



Actuators
Quarter turn actuators

1.2

-  - Size
0015 ... 1920

-  - Torque
15 ... 1,920 Nm

-  - Swivel angle
0 ... 90°

The quarter turn actuators DAPS are specially tailored to the requirements of the process industry. The torque is generated via a scotch-yoke mechanism. This is advantageous for overcoming the valve's high break-away torques. Given their robustness and graduated torques, the DAPS quarter turn actuators are predominantly used to control valves through which various media flow and whose angle of rotation is limited to 90°, e.g. ball valves and butterfly valves.

- Compact design
- Torque characteristics adjusted to the process valves
- For the same housing size, the single-acting drive has half the torque of the double-acting drive
- Low wearing thanks to the simple and robust mechanical system
- Adjustable swivel angle
- Selected types according to ATEX directive for explosive atmospheres
→ www.festo.com/en/ex

- Port pattern to Namur VDI/VDE 3845 for attaching solenoid valves



Quarter turn actuators DAPS, double-acting

Product range overview

FESTO

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	V11	V11	V14	V11	V14	V17	V14	V17	
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	
	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	F12	F12	F14	F14	F16	Shaft height
Square	V22	V22	V27	V27	V36	V46	V36	V46	V46	
DAPS-0180-...-F0710	■	■	—	—	—	—	—	—	—	30
DAPS-0240-...-F0710	■	■	—	—	—	—	—	—	—	30
DAPS-0360-...-F0710	■	■	—	—	—	—	—	—	—	30
DAPS-0480-...-F1012	—	—	■	■	—	—	—	—	—	30
DAPS-0960-...-F12	—	—	—	—	■	—	—	—	—	30
DAPS-0960-...-F14	—	—	—	—	—	—	■	—	—	30
DAPS-1920-...-F14	—	—	—	—	—	—	—	■	—	30
DAPS-1920-...-F1216	—	—	—	—	—	■	—	—	■	30
Hole pattern for Namur accessories	30	30	30	30	30	30	30	30	30	
	80	80	80	80	80	80	80	80	80	

Quarter turn actuators DAPS, single-acting

Product range overview

FESTO

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	V11	V11	V14	V11	V14	V17	V14	V17	
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	F12	F12	F14	F14	F16	Shaft height
Square	V22	V22	V27	V27	V36	V46	V36	V46	V46	
DAPS-0090-...-F0710	■	■	–	–	–	–	–	–	–	30
DAPS-0120-...-F0710	■	■	–	–	–	–	–	–	–	30
DAPS-0180-...-F0710	■	■	–	–	–	–	–	–	–	30
DAPS-0240-...-F1012	–	–	■	■	–	–	–	–	–	30
DAPS-0480-...-F12	–	–	–	–	■	–	–	–	–	30
DAPS-0480-...-F14	–	–	–	–	–	–	■	–	–	30
DAPS-0960-...-F14	–	–	–	–	–	–	–	■	–	30
DAPS-0960-...-F1216	–	–	–	–	–	■	–	–	■	30
Hole pattern for Namur accessories	30	30	30	30	30	30	30	30	30	
	80	80	80	80	80	80	80	80	80	

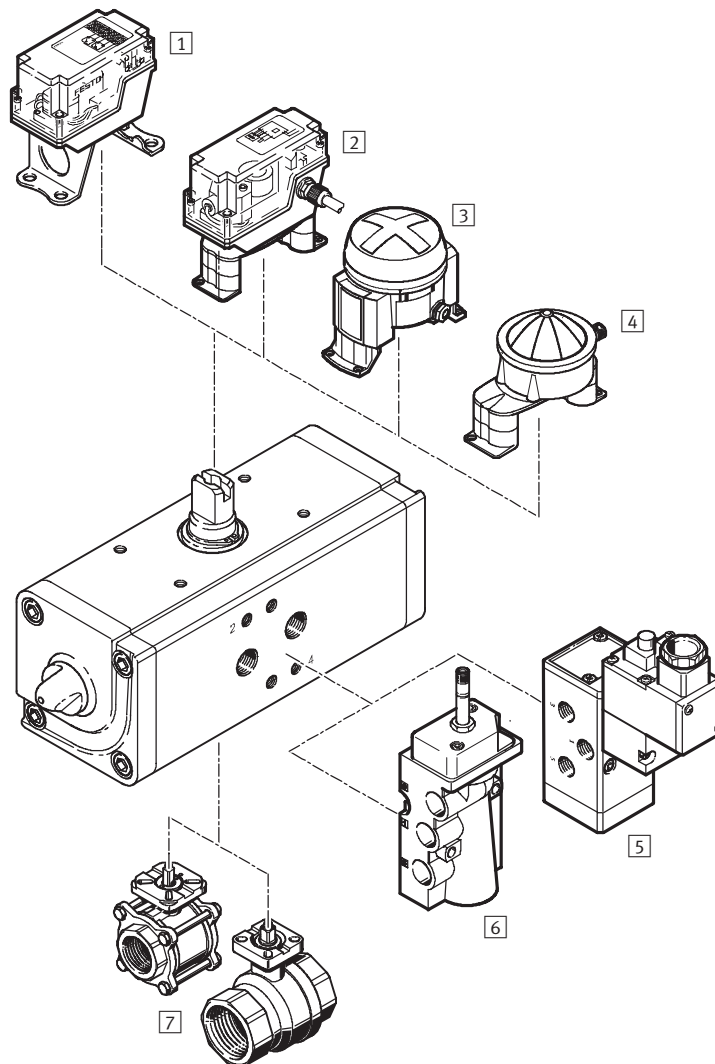
Actuators
Quarter turn actuators

1.2

Quarter turn actuators DAPS

Peripherals overview

FESTO



Mounting attachments and accessories		
	Brief description	→ Page
1	Limit switch attachment QH-DR-E	7 / 1.0-95
2	Limit switch attachment DAPZ	7 / 1.0-88
3	Limit switch attachment DAPZ	7 / 1.0-92
4	Limit switch attachment DAPZ	7 / 1.0-90
5	Solenoid valve MFH	7 / 2.1-10
	Solenoid valve MN1H	7 / 2.1-10
	Solenoid valve MGTBH	7 / 2.1-10
6	Solenoid valve NVF3	7 / 2.1-4
7	Ball valve VAPB	7 / 2.2-2

Quarter turn actuators DAPS

Type codes

FESTO

DAPS – 0240 – 090 – R S 4 – F10 12

Type	
DAPS	Quarter turn actuator

Size	
0015	Nominal torque 15 Nm
0030	Nominal torque 30 Nm
0053	Nominal torque 53 Nm
0060	Nominal torque 60 Nm
0106	Nominal torque 106 Nm
0180	Nominal torque 180 Nm
0240	Nominal torque 240 Nm
0360	Nominal torque 360 Nm
0480	Nominal torque 480 Nm
0960	Nominal torque 960 Nm
1920	Nominal torque 1,920 Nm

Swivel angle	
090	90°

Closing direction	
R	Closes to right

Mode of operation	
	Double-acting
S	Single-acting

Spring strength	
	Omitted for double-acting
1	For connection pressure 2.8 bar
2	For connection pressure 3.5 bar
3	For connection pressure 4.2 bar
4	For connection pressure 5.6 bar

1st flange hole pattern	
F03	Flange hole pattern F03
F04	Flange hole pattern F04
F05	Flange hole pattern F05
F07	Flange hole pattern F07
F10	Flange hole pattern F10
F12	Flange hole pattern F12
F14	Flange hole pattern F14
F16	Flange hole pattern F16

2nd flange hole pattern	
05	Flange hole pattern F05
07	Flange hole pattern F07
10	Flange hole pattern F10
12	Flange hole pattern F12
16	Flange hole pattern F16

Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Function



-  - Swivel angle
0 ... 90°

Wearing parts kits
→ 7 / 1.2-44

-  - Size
0015 ... 1920

-  - Torque
15 ... 1,920 Nm



General technical data		
Size	0015 ... 0360	0480 ... 1920
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Design	Scotch yoke system, double-acting	
Assembly position	Any	
Swivel angle [°]	90	
End-position adjusting range at 90 ° [°]	±5	
Closing direction	Closes to right	

Operating and environmental conditions		
Operating pressure ¹⁾ [bar]	1 ... 8.4	
Operating medium	Dried compressed air, lubricated or unlubricated	
Ambient temperature [°C]	-20 ... +80	
ATEX symbol	II 2 GD c X	
ATEX ambient temperature	-20°C ≤ Ta ≤ +60°C	
Corrosion resistance class CRC ²⁾	3	

1) Minimum operating pressures vary for single-acting quarter turn actuators depending upon spring quantity

2) Corrosion resistance class 3 according to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Air consumption [l/cycle] at 6 bar			
Size		Size	
DAPS-0015	0.72	DAPS-0240	12
DAPS-0030	1.44	DAPS-0360	17.4
DAPS-0060	3	DAPS-0480	24
DAPS-0106	5.04	DAPS-0960	48
DAPS-0180	8.64	DAPS-1920	96

Weight [g]			
Size		Size	
DAPS-0015	750	DAPS-0240	5,200
DAPS-0030	1,000	DAPS-0360	6,200
DAPS-0060	1,900	DAPS-0480	8,200
DAPS-0106	2,300	DAPS-0960	17,400
DAPS-0180	4,100	DAPS-1920	30,700

Quarter turn actuators DAPS, double-acting

Technical data

FESTO

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	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-0960	0	428.6	514.3	685.7	857.1	960	1,028.6	1,200	1,371.4
	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	1,028.6
DAPS-1920	0	857.1	1,028.6	1,371.4	1,714.3	1,920	2,057.1	2,400	2,742.9
	50	428.6	514.3	685.8	857.1	960	1,028.6	1,200	1,371.4
	90	642.9	771.4	1,028.6	1,285.7	1,440	1,542.9	1,800	2,057.1

Torque for size at 5.6 bar and swivel angle 0°

Materials	
Quarter turn actuators	
Housing	Wrought aluminium alloy
Cover	Wrought aluminium alloy
Shaft	Stainless steel
External screws	Stainless steel
Seals	Nitrile rubber

Quarter turn actuators DAPS, double-acting

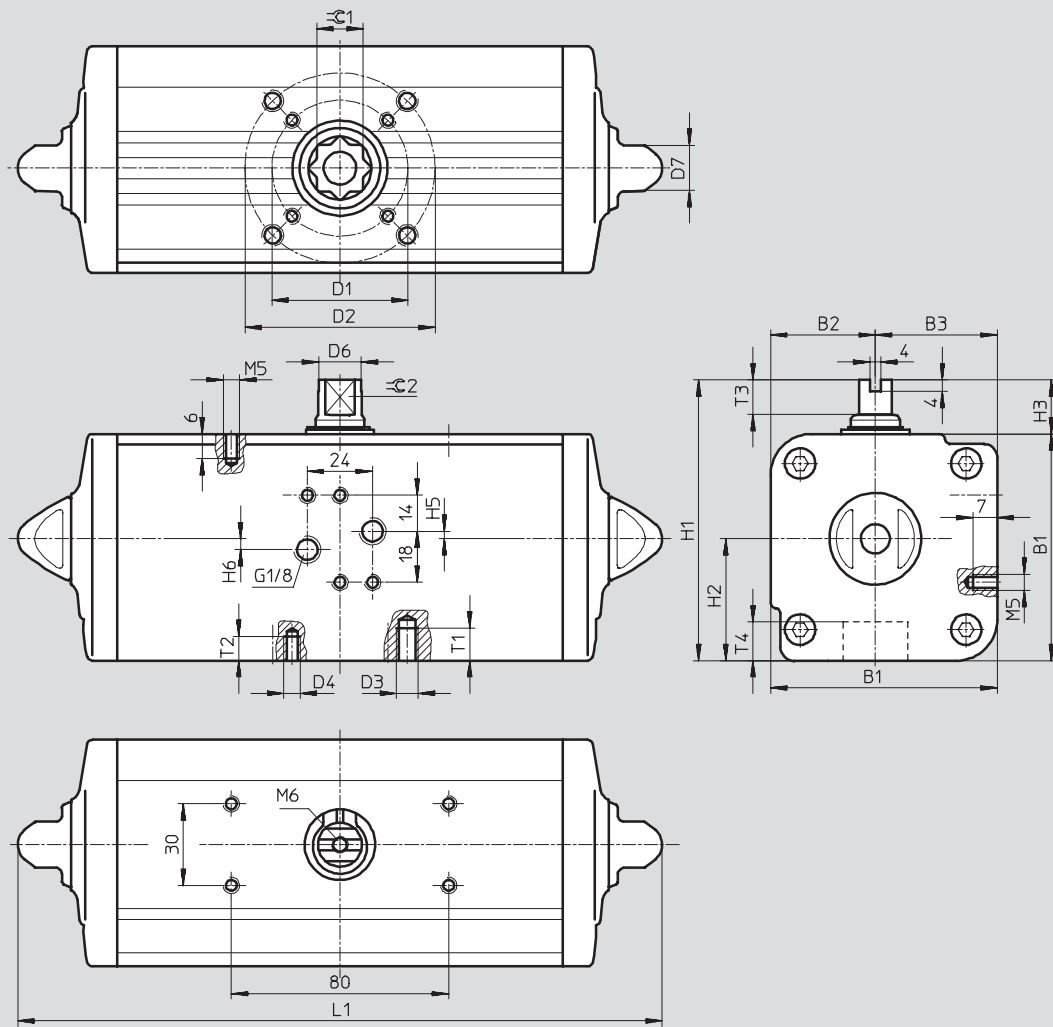
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com/en/engineering

Size 0015 ... 0360



Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Size	B1	B2	B3	D1 Ø ±0,1	D2 Ø ±0,1	D3	D4	D6 Ø	D7 Ø	H1	H2
DAPS-0015-...-F03	52.2	24.2	28	36	–	–	M5	9.2	13	72.2	28
DAPS-0015-...-F04				42			M5				
DAPS-0030-...-F0305	59.2	27.7	31.5	36	50	M6	M5	10.9	13	79.2	31.5
DAPS-0030-...-F04				42	–	–	M5				
DAPS-0060-...-F04	70.4	32.7	37.7	42	–	–	M5	14.5	13	90.4	37.7
DAPS-0060-...-F0507				50	70	M8	M6				
DAPS-0106-...-F0507	83.3	38.5	44.8	50	70	M8	M6	16.2	17	103.3	44.8
DAPS-0180-...-F0710	107.5	51	56.5	70	102	M10	M8	20.2	22	137.5	56.5
DAPS-0240-...-F0710	111.1	51	60.1	70	102	M10	M8	22.5	22	141.1	60.1
DAPS-0360-...-F0710	118	56	62	70	102	M10	M8	25.5	22	148	62

Size	H3	H5	H6	L1	T1	T2	T3	T4	≈ 1	≈ 2
DAPS-0015-...-F03	20	0.8	3.2	159	–	8	10	13.2	11	8
DAPS-0015-...-F04						8				
DAPS-0030-...-F0305	20	0.8	3.2	174	9	8	10	13.2	11	9
DAPS-0030-...-F04					–	8				
DAPS-0060-...-F04	20	–	4	198	–	8	13	16.5	14	10
DAPS-0060-...-F0507					12	9				
DAPS-0106-...-F0507	20	–	4	236.5	9	12	13	19.3	17	12
DAPS-0180-...-F0710	30	–	4	289.9	12	15	16	24.8	22	15
DAPS-0240-...-F0710	30	–	4	313.6	12	15	17	24.8	22	15
DAPS-0360-...-F0710	30	–	4	339.3	12	15	19	24.3	22	19

Quarter turn actuators DAPS, double-acting

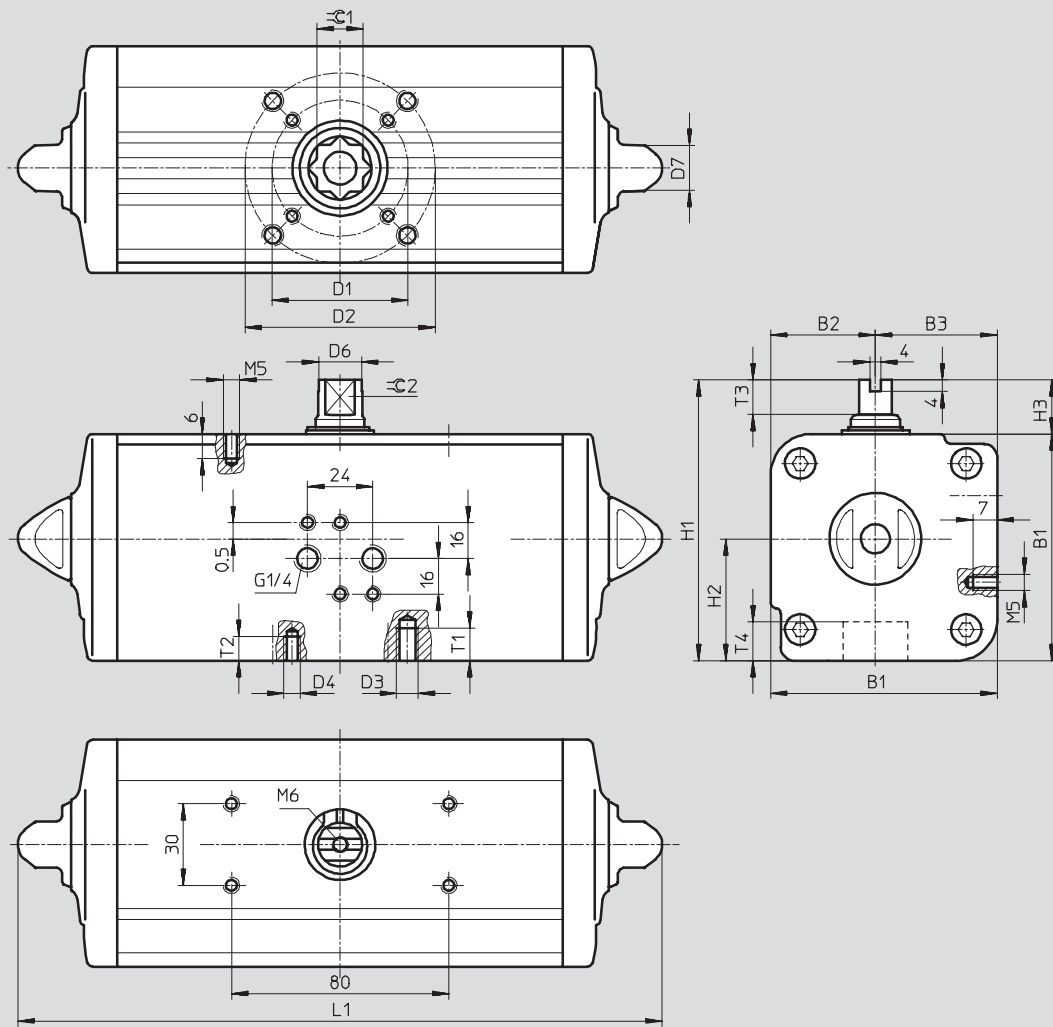
Technical data

FESTO

Dimensions

Size 0480 ... 1920

Download CAD data → www.festo.com/en/engineering



Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Size	B1	B2	B3	D1 Ø ±0,1	D2 Ø ±0,1	D3	D4	D6 Ø	D7 Ø	H1
DAPS-0480-...-F1012	134.9	62	72.9	102	125	M12	M10	29	27	164.9
DAPS-0960-...-F12	168	74.5	93.5	125	–	–	M12	36.5	27	198
DAPS-0960-...-F14				140			M16			
DAPS-1920-...-F14	207.7	93	114.7	140	–	–	M16	46	36	237.7
DAPS-1920-...-F1216				165			M20			

Size	H2	H3	L1	T1	T2	T3	T4	≈ 1	≈ 2
DAPS-0480-...-F1012	72.9	30	387.7	15	18	19	29.5	27	19
DAPS-0960-...-F12	93.5	30	479.4	–	18	19.5	38.5	36	24
DAPS-0960-...-F14					24				
DAPS-1920-...-F14	114.7	30	601	–	24	18.5	48.5	46	32
DAPS-1920-...-F1216					30				

Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Actuators
Quarter turn actuators

1.2

Ordering data – Actuators			
Part No.	Type	Part No.	Type
Size 0015		Size 0240	
533 417	DAPS-0015-090-R-F03	533 422	DAPS-0240-090-R-F0710
533 475	DAPS-0015-090-R-F04		
		Size 0360	
Size 0030		533 423	DAPS-0360-090-R-F0710
533 418	DAPS-0030-090-R-F0305		
533 476	DAPS-0030-090-R-F04	Size 0480	
		533 424	DAPS-0480-090-R-F1012
Size 0060			
533 419	DAPS-0060-090-R-F04	Size 0960	
533 477	DAPS-0060-090-R-F0507	533 425	DAPS-0960-090-R-F12
		533 478	DAPS-0960-090-R-F14
Size 0106			
533 420	DAPS-0106-090-R-F0507	Size 1920	
		533 426	DAPS-1920-090-R-F14
Size 0180		533 479	DAPS-1920-090-R-F1216
533 421	DAPS-0180-090-R-F0710		

Ordering data – Wearing parts kits			
Part No.	Type	Part No.	Type
Size 0015		Size 0240	
397 470	DAPS-0015	397 475	DAPS-0240/S0120
Size 0030		Size 0360	
397 471	DAPS-0030/S0015	397 476	DAPS-0360/S0180
Size 0060		Size 0480	
397 472	DAPS-0060/S0030	397 477	DAPS-0480/S0240
Size 0106		Size 0960	
397 473	DAPS-0106/S0053	397 478	DAPS-0960/S0480
Size 0180		Size 1920	
397 474	DAPS-0180/S0090	397 479	DAPS-1920/S0960

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Function



-  - Swivel angle
0 ... 90°

Wearing parts kits

→ 7 / 1.2-52

-  - Size
0015 ... 0960

-  - Torque
15 ... 960 Nm



General technical data		
Size	0015 ... 0180	0240 ... 0960
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Design	Scotch yoke system, single-acting	
Assembly position	Any	
Swivel angle [°]	90	
End position adjusting range at 90 ° [°]	±5	
Closing direction	Closes to right	

Operating and environmental conditions		
Operating pressure ¹⁾ [bar]	1 ... 8.4	
Operating medium	Dried compressed air, lubricated or unlubricated	
Ambient temperature [°C]	-20 ... +80	
ATEX symbol	II 2 GD c X	
ATEX ambient temperature	-20°C ≤ Ta ≤ +60°C	
Corrosion resistance class CRC ²⁾	3	

1) Minimum operating pressures vary for single-acting quarter turn actuators depending upon spring quantity

2) Corrosion resistance class 3 according to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Air consumption [l/cycle] at 6 bar			
Size		Size	
DAPS-0015	0.36	DAPS-0180	4.32
DAPS-0030	0.72	DAPS-0240	6
DAPS-0053	1.08	DAPS-0480	12
DAPS-0090	2.16	DAPS-0960	24
DAPS-0120	3		

Weight [g]			
Size		Size	
DAPS-0015	1,300	DAPS-0180	8,700
DAPS-0030	2,200	DAPS-0240	11,000
DAPS-0053	3,200	DAPS-0480	23,300
DAPS-0090	5,400	DAPS-0960	41,400
DAPS-0120	6,900		

Materials	
Housing	Wrought aluminium alloy
Cover	Wrought aluminium alloy
Shaft	Stainless steel
External screws	Stainless steel
Seals	Nitrile rubber

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°]																		
Spring strength	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	105
3	120	90	180	–	–	–	–	–	–	–	–	–	130	60	70	180	90	120
4	160	120	240	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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-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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Quarter turn actuators DAPS, single-acting

Technical data

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Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°]															
Spring strength	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	130.6	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	86.7	40	46.7	106.7	52	66.7	120	60	80	153.3	80	113.3	186.7	100	146.7
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	70.7	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-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	250	822.9	445.7	662.9
DAPS-0960															
1	–			–			–			–			–		
2	1,028.6	557.1	828.6	1,200	660	1,000	–			–			–		
3	948.6	497.1	708.6	1,120	600	880	1,234.3	668.6	994.3	1,520	840	1,280	1,805.7	1,011.4	1,565.7
4	788.6	377.1	468.6	960	480	640	1,074.3	548.6	754.3	1,360	720	1,040	1,645.7	891.4	1,325.7

Torque for size at 5.6 bar and swivel angle 0°

Quarter turn actuators DAPS, single-acting

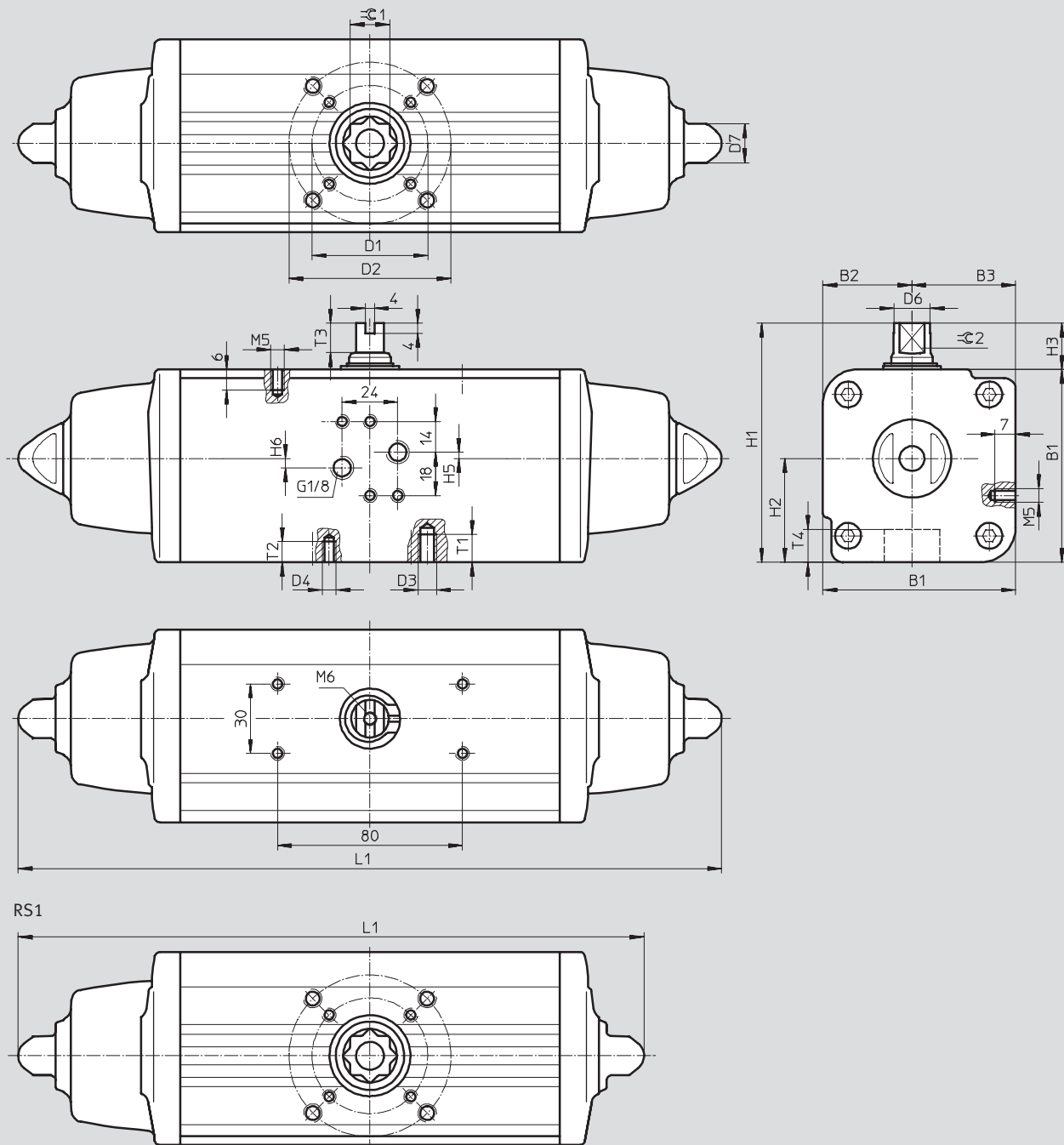
Technical data

FESTO

Dimensions

Size 0015 ... 0180

Download CAD data → www.festo.com/en/engineering



Quarter turn actuators DAPS, single-acting

Technical data

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Size	B1	B2	B3	D1 Ø ±0,1	D2 Ø ±0,1	D3	D4	D6 Ø	D7 Ø	H1	H2
DAPS-0015-...-F0305	59.2	27.7	31.5	36	50	M6	M5	10.9	13	79.2	31.5
DAPS-0015-...-F04				42	–	–	M5				
DAPS-0030-...-F04	70.4	32.7	37.7	42	–	–	M5	14.5	13	90.4	37.7
DAPS-0030-...-F0507				50	70	M8	M6				
DAPS-0053-...-F0507	83.3	38.5	44.8	50	70	M8	M6	16.2	17	103.3	44.8
DAPS-0090-...-F0710	107.5	51	56.5	70	102	M10	M8	20.2	22	137.5	56.5
DAPS-0120-...-F0710	111.1	51	60.1	70	102	M10	M8	22.5	22	141.1	60.1
DAPS-0180-...-F0710	118	56	62	70	102	M10	M8	25.5	22	148	62

Size	H3	H5	H6	L1		T1	T2	T3	T4	≙ 1	≙ 2
				RS1	RS...						
DAPS-0015-...-F0305	20	0.8	3.2	203,8	233.3	9	8	10	13.2	11	9
DAPS-0015-...-F04						–	8				
DAPS-0030-...-F04	20	–	4	228,5	259	–	8	13	16.5	14	10
DAPS-0030-...-F0507						12	9				
DAPS-0053-...-F0507	20	–	4	270,7	303.5	12	9	13	19.3	17	12
DAPS-0090-...-F0710	30	–	4	341,8	393.7	15	12	16	24.8	22	15
DAPS-0120-...-F0710	30	–	4	361,6	409.6	15	12	17	24.8	22	15
DAPS-0180-...-F0710	30	–	4	406,6	474	15	12	19	24.3	22	19

Quarter turn actuators DAPS, single-acting

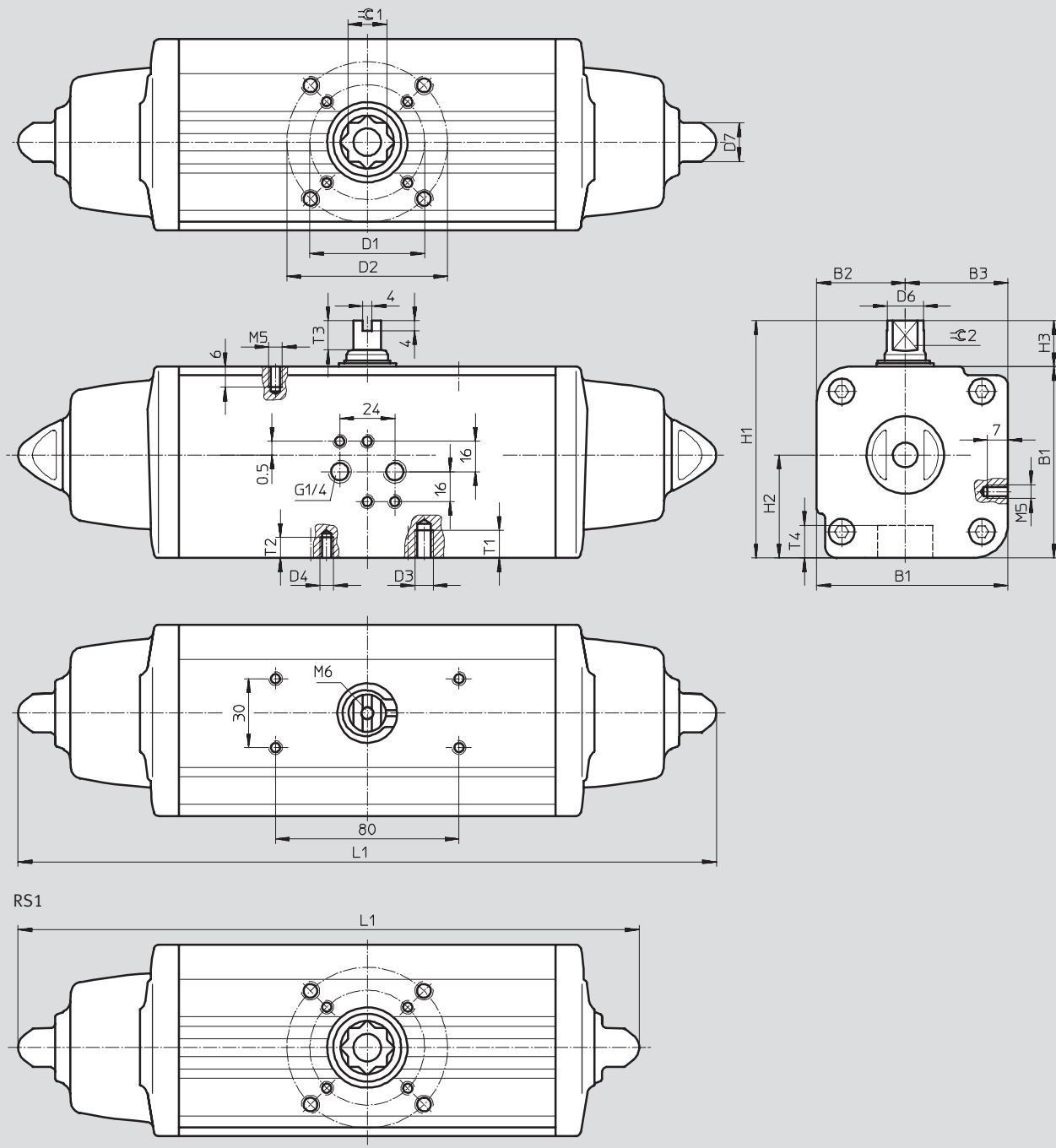
Technical data

FESTO

Dimensions

Size 0240 ... 0960

Download CAD data → www.festo.com/en/engineering



Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Size	B1	B2	B3	D1 Ø ±0,1	D2 Ø ±0,1	D3	D4	D6 Ø	D7 Ø	H1
DAPS-0240-...-F1012	134.9	62	72.9	102	125	M12	M10	29	27	164.9
DAPS-0480-...-F12	168	74.5	93.5	125	–	–	M12	36.5	27	198
DAPS-0480-...-F14				140			M16			
DAPS-0960-...-F14	207.7	93	114.7	140	–	–	M16	46	36	237.7
DAPS-0960-...-F1216				165			M20			

Size	H2	H3	L1		T1	T2	T3	T4	=C1	=C2
			RS1	RS...						
DAPS-0240-...-F1012	72.9	30	454,1	520.5	15	18	19	29.5	27	19
DAPS-0480-...-F12	93.5	30	563,8	648.2	–	18	19.5	38.5	36	24
DAPS-0480-...-F14						24				
DAPS-0960-...-F14	114.7	30	714,4	828	–	24	18.5	48.5	46	32
DAPS-0960-...-F1216					30	18				

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Actuators
Quarter turn actuators

1.2

Ordering data			
Part No.	Type	Part No.	Type
Size 0015		Size 0180	
533 427	DAPS-0015-090-RS1-F0305	533 447	DAPS-0180-090-RS1-F0710
533 480	DAPS-0015-090-RS1-F04	533 448	DAPS-0180-090-RS2-F0710
533 428	DAPS-0015-090-RS2-F0305	533 449	DAPS-0180-090-RS3-F0710
533 481	DAPS-0015-090-RS2-F04	533 450	DAPS-0180-090-RS4-F0710
533 429	DAPS-0015-090-RS3-F0305		
533 482	DAPS-0015-090-RS3-F04	Size 0240	
533 430	DAPS-0015-090-RS4-F0305	533 451	DAPS-0240-090-RS1-F1012
533 483	DAPS-0015-090-RS4-F04	533 452	DAPS-0240-090-RS2-F1012
		533 453	DAPS-0240-090-RS3-F1012
Size 0030		533 454	DAPS-0240-090-RS4-F1012
533 431	DAPS-0030-090-RS1-F04		
533 484	DAPS-0030-090-RS1-F0507	Size 0480	
533 432	DAPS-0030-090-RS2-F04	533 455	DAPS-0480-090-RS1-F12
533 485	DAPS-0030-090-RS2-F0507	533 488	DAPS-0480-090-RS1-F14
533 433	DAPS-0030-090-RS3-F04	533 456	DAPS-0480-090-RS2-F12
533 486	DAPS-0030-090-RS3-F0507	533 489	DAPS-0480-090-RS2-F14
533 434	DAPS-0030-090-RS4-F04	533 457	DAPS-0480-090-RS3-F12
533 487	DAPS-0030-090-RS4-F0507	533 490	DAPS-0480-090-RS3-F14
		533 458	DAPS-0480-090-RS4-F12
Size 0053		533 491	DAPS-0480-090-RS4-F14
533 435	DAPS-0053-090-RS1-F0507		
533 436	DAPS-0053-090-RS2-F0507	Size 0960	
533 437	DAPS-0053-090-RS3-F0507	533 459	DAPS-0960-090-RS1-F14
533 438	DAPS-0053-090-RS4-F0507	533 492	DAPS-0960-090-RS1-F1216
		533 460	DAPS-0960-090-RS2-F14
Size 0090		533 493	DAPS-0960-090-RS2-F1216
533 439	DAPS-0090-090-RS1-F0710	533 461	DAPS-0960-090-RS3-F14
533 440	DAPS-0090-090-RS2-F0710	533 494	DAPS-0960-090-RS3-F1216
533 441	DAPS-0090-090-RS3-F0710	533 462	DAPS-0960-090-RS4-F14
533 442	DAPS-0090-090-RS4-F0710	533 495	DAPS-0960-090-RS4-F1216
Size 0120			
533 443	DAPS-0120-090-RS1-F0710		
533 444	DAPS-0120-090-RS2-F0710		
533 445	DAPS-0120-090-RS3-F0710		
533 446	DAPS-0120-090-RS4-F0710		

Ordering data – Wearing parts kits			
Part No.	Type	Part No.	Type
Size 0015		Size 0180	
397 471	DAPS-0030/S0015	397 476	DAPS-0360/S0180
Size 0030		Size 0240	
397 472	DAPS-0060/S0030	397 477	DAPS-0480/S0240
Size 0053		Size 0480	
397 473	DAPS-0106/S0053	397 478	DAPS-0960/S0480
Size 0090		Size 0960	
397 474	DAPS-0180/S0090	397 479	DAPS-1920/S0960
Size 0120			
397 475	DAPS-0240/S0120		