

Quarter turn actuators DAPS

FESTO



Quarter turn actuators DAPS

Key features

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General DAPS		→ Page 11	
-T-	Size 0008 ... 8000	The quarter turn actuators DAPS are specially tailored to the requirements of the process industry. The torque is generated via a scotch yoke mechanism, which helps to overcome the valve's high breakaway torques. Given their robustness and graduated torques, the quarter turn actuators DAPS 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 adapted 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 in accordance with ATEX directive for potentially explosive atmospheres → www.festo.com/en/ex
Pressure	8 ... 8,000 Nm		
Swivel angle	0 ... 90°		



Stainless steel variant DAPS CR		→ Page 38	
-T-	Size 0015 ... 0480	Single-acting and double-acting quarter turn actuators DAPS in stainless steel are used for automating fittings with a 90° swivel angle. The single-acting variant comes in different spring strengths for different supply pressures.	• Low wearing thanks to the simple and robust mechanical system • Torque characteristics adapted to the process valves • Selected types in accordance with ATEX directive for potentially explosive atmospheres → www.festo.com/en/ex
Pressure	15 ... 480 Nm		
Swivel angle	0 ... 90°		



Quarter turn actuators DAPS, double-acting

Product range overview

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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	V11	V11	V11	V14	V11	V14	V17	V14	V17	
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	F12	F12	F14	F14	F16	F16	F25	Shaft height
Square	V22	V22	V27	V27	V36	V46	V36	V46	V46	V46	V55	
DAPS-0180-...-F0710	■	■	–	–	–	–	–	–	–	–	–	30
DAPS-0240-...-F0710	■	■	–	–	–	–	–	–	–	–	–	30
DAPS-0360-...-F0710	■	■	–	–	–	–	–	–	–	–	–	30
DAPS-0480-...-F1012	–	–	■	■	–	–	–	–	–	–	–	30
DAPS-0720-...-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	
	80	80	80	80	80	80	80	80	80	130	130	

Quarter turn actuators DAPS, single-acting

Product range overview

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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	F16	Shaft height
Square	V22	V22	V27	V27	V36	V46	V36	V46	V46	V46	
DAPS-0090-...-F0710	■	■	–	–	–	–	–	–	–	–	30
DAPS-0120-...-F0710	■	■	–	–	–	–	–	–	–	–	30
DAPS-0180-...-F0710	■	■	–	–	–	–	–	–	–	–	30
DAPS-0240-...-F1012	–	–	■	■	–	–	–	–	–	–	30
DAPS-0360-...-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	
	80	80	80	80	80	80	80	80	80	130	

Quarter turn actuators DAPS CR

Product range overview

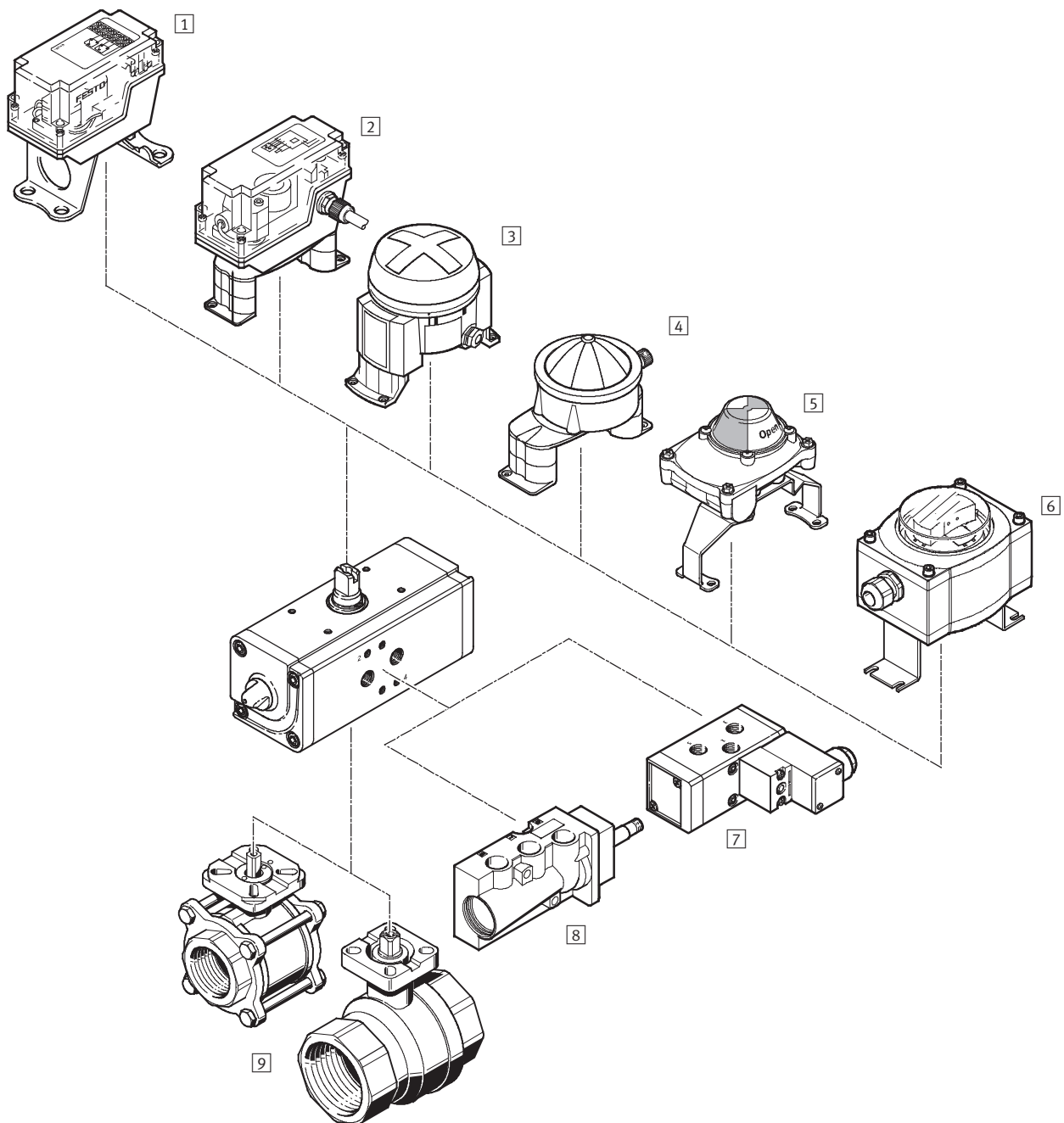
DAPS CR, double-acting											
Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845											
Connection	F03	F03	F05	F05	F05	F07	F07	F07	F10	F10	Shaft height
Square	V09	V11	V11	V14	V17	V14	V17	V22	V17	V22	
DAPS-0015-...-R-F03-CR	■	–	–	–	–	–	–	–	–	–	20 mm
DAPS-0030-...-R-F03-CR	■	–	–	–	–	–	–	–	–	–	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	V09	V11	V11	V14	V17	V14	V17	V22	V17	V22	
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	

Quarter turn actuators DAPS

Peripherals overview

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Quarter turn actuators DAPS

Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page/Internet
1 Limit switch attachment QH-DR-E	Square design, pneumatic, electrical or inductive sensing	qh-dr-e
2 Limit switch attachment DAPZ	Square design Electrical, electrical and explosion-proof or inductive sensing	dapz
3 Limit switch attachment DAPZ	Round design, variant AR Electrical, inductive or inductive and explosion-proof sensing	dapz
4 Limit switch attachment DAPZ	Round design, variant RO Electrical, inductive or inductive NAMUR sensing	dapz
5 Limit switch attachment SRBF	Square design, sensing via two mechanical switches	srbf
6 Sensor box SRBP, SRAP	SRBP, binary sensor box reports the open and closed position of the drive SRAP, analogue sensor box continuously senses the entire swivel range and reports this back to the controller	srbp, srap
7 Solenoid valve MFH ¹⁾	Basic valve with pilot control valve for F solenoid coil	mfh
Solenoid valve MN1H ¹⁾	Basic valve with pilot control valve for N1 solenoid coil	mn1h
Solenoid valve MGTBH ¹⁾	Basic valve with pilot control valve, solenoid coil and socket	mgtbh
8 Solenoid valve NVF3 ¹⁾	For F solenoid coil and explosion-proof F solenoid coil	nvf3
9 Ball valve VAPB	Brass or stainless steel, corrosion-resistant	vapb

1) Direct mounting of solenoid valves only possible from size 0015 onwards

Quarter turn actuators DAPS

Type codes

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		DAPS	–	0240	–	090	–	R	S	4	–	F10	–
Type													
DAPS	Quarter turn actuator												
Size													
0008	Nominal torque 8 Nm												
0015	Nominal torque 15 Nm												
0030	Nominal torque 30 Nm												
0053	Nominal torque 53 Nm												
0060	Nominal torque 60 Nm												
0090	Nominal torque 90 Nm												
0106	Nominal torque 106 Nm												
0120	Nominal torque 120 Nm												
0180	Nominal torque 180 Nm												
0240	Nominal torque 240 Nm												
0360	Nominal torque 360 Nm												
0480	Nominal torque 480 Nm												
0720	Nominal torque 720 Nm												
0960	Nominal torque 960 Nm												
1440	Nominal torque 1,440 Nm												
1920	Nominal torque 1,920 Nm												
2880	Nominal torque 2,880 Nm												
3840	Nominal torque 3,840 Nm												
4000	Nominal torque 4,000 Nm												
5760	Nominal torque 5,760 Nm												
8000	Nominal torque 8,000 Nm												
Swivel angle													
090	90°												
Closing direction													
R	Closes to right												
Mode of operation													
	Double-acting												
S	Single-acting												
Spring strength													
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												
F25	Flange hole pattern F25												

Quarter turn actuators DAPS

Type codes

		12	—	
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			
Temperature range				
—	Standard (–20 °C ... +80 °C)			
T6	–50 °C ... +60 °C			

Quarter turn actuators DAPS CR

Type codes

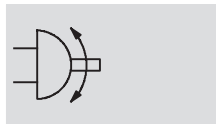
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		DAPS	-	0015	-	090	-	R	S	4	-	F03	-	05	-	CR															
Type																															
DAPS	Quarter turn actuator for process automation																														
Nominal torque in Nm																															
0015	15 Nm																														
0030	30 Nm																														
0060	60 Nm																														
0120	120 Nm																														
0240	240 Nm																														
0480	480 Nm																														
Swivel angle in degrees																															
90	90°																														
Closing direction																															
R	Closes to right																														
Mode of operation																															
S	Single-acting																														
Spring strength																															
1	Spring strength for connection pressure 2.8 bar																														
2	Spring strength for connection pressure 3.5 bar																														
3	Spring strength for connection pressure 4.2 bar																														
4	Spring strength for connection pressure 5.6 bar																														
1st flange hole pattern																															
F03	Flange hole pattern 03																														
F05	Flange hole pattern 05																														
F07	Flange hole pattern 07																														
2nd flange hole pattern																															
05	Flange hole pattern 05																														
07	Flange hole pattern 07																														
10	Flange hole pattern 10																														
Special design																															
CR	Stainless steel																														

Quarter turn actuators DAPS, double-acting

Technical data

Function



Swivel angle

0 ... 90°

Wearing parts kits

→ 21



-T-

Size

0008 ... 8000

Pressure

8 ... 8,000 Nm

General technical data					
Size	0008	0015 ... 0360	0480 ... 1920	2880 ... 5760	8000
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$
Design	Scotch yoke system				
Mode of operation	Double-acting				
Mounting position	Any				
Position sensing	None				
Cushioning	No cushioning				
Swivel angle	[°]	90			
End-position adjusting range at 0°	[°]	–	–	±5	±5
End-position adjusting range at 90°	[°]	–	±2	±2	±5
Closing direction	Closes to right				

Operating and environmental conditions						
Size		0008	0015 ... 0360	0480 ... 1920	2880 ... 5760	8000
Operating pressure	[bar]	1 ... 8.4				1 ... 7
Nominal operating pressure	[bar]	5.6				
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)				
Ambient temperature	[°C]	−20 ... +80				
Ambient temperature for variant T6	[°C]	–	−50 ... +60			–
Corrosion resistance class CRC ¹⁾		3				
Connection to process valve as per standard		ISO 5211				
Valve connection as per standard		VDI/VDE 3845 (NAMUR)				

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

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

ATEX	
ATEX category for gas	II 2G
Explosion ignition protection type for gas	c TX X
ATEX category for dust	II 2D
Explosion ignition protection type for dust	c TX X
Explosion-proof temperature rating	–20 °C ≤ Ta ≤ +60 °C
Explosion-proof temperature rating T6	–50 °C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Quarter turn actuators DAPS, double-acting

Technical data

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Air consumption [l/cycle] at 6 bar		Size	
Size		Size	
DAPS-0008	0.4	DAPS-0720	24.5
DAPS-0015	0.72	DAPS-0960	48
DAPS-0030	1.44	DAPS-1440	53.2
DAPS-0060	3	DAPS-1920	96
DAPS-0106	5.04	DAPS-2880	140
DAPS-0180	8.64	DAPS-3840	170.1
DAPS-0240	12	DAPS-5760	266
DAPS-0360	17.4	DAPS-8000	300
DAPS-0480	24		

Weight [g]		Size	
Size		Size	
DAPS-0008	300	DAPS-0720	12,000
DAPS-0015	750	DAPS-0960	17,400
DAPS-0030	1,000	DAPS-1440	23,000
DAPS-0060	1,600	DAPS-1920	32,000
DAPS-0106	2,500	DAPS-2880	56,000
DAPS-0180	4,600	DAPS-3840	49,000
DAPS-0240	5,400	DAPS-5760	86,000
DAPS-0360	6,500	DAPS-8000	106,000
DAPS-0480	9,600		

Materials		
Quarter turn actuators		Material number
Housing	Wrought aluminium alloy	–
Cover	Wrought aluminium alloy	–
Shaft	High-alloy steel	1.4305
External screws	High-alloy steel	–
Seals	FPM, NBR, PUR	–
Seals T6	FVMQ, PTFE-reinforced	–
Note on materials	Contains PWIS (paint-wetting impairment substances)	–

Quarter turn actuators DAPS, double-acting

Technical data

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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	1,027.2
	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	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-1440	0	642.8	768	1,027.2	1,286.4	1,440	1,545.6	1,804.8	2,057.4
	50	321.4	384	518.4	643.2	720	768	902.4	1,059.2
	90	482.1	576	777.6	969.9	1,080	1,161.6	1,353.6	1,545.6
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
DAPS-2880	0	1,285	1,542	2,057	2,571	2,880	3,085	3,600	4,114
	50	642	771	1,028	1,285	1,440	1,542	1,800	2,057
	90	856	1,028	1,371	1,741	1,920	2,056	2,400	2,742
DAPS-3840	0	1,714	2,057	2,743	3,428	3,840	4,114	4,800	5,485
	50	857	1,028	1,371	1,714	1,920	2,057	2,400	2,742
	90	1,285	1,543	2,057	2,571	2,880	3,085	3,600	4,114
DAPS-5760	0	2,571	3,085	4,114	5,142	5,760	6,171	7,200	8,228
	50	1,285	1,542	2,057	2,571	2,880	3,085	3,600	4,141
	90	1,928	2,313	3,085	3,856	4,320	4,628	5,400	6,171
DAPS-8000	0	3,571.4	4,285.7	5,714.3	7,142.9	8,000	8,571.4	10,000	–
	50	1,785.7	2,142.9	2,857.1	3,571.4	4,000	4,285.7	5,000	–
	90	2,678.6	3,214.3	4,285.7	5,357.1	6,000	6,428.6	7,500	–

Torque for size at 5.6 bar and swivel angle 0°

Quarter turn actuators DAPS, double-acting

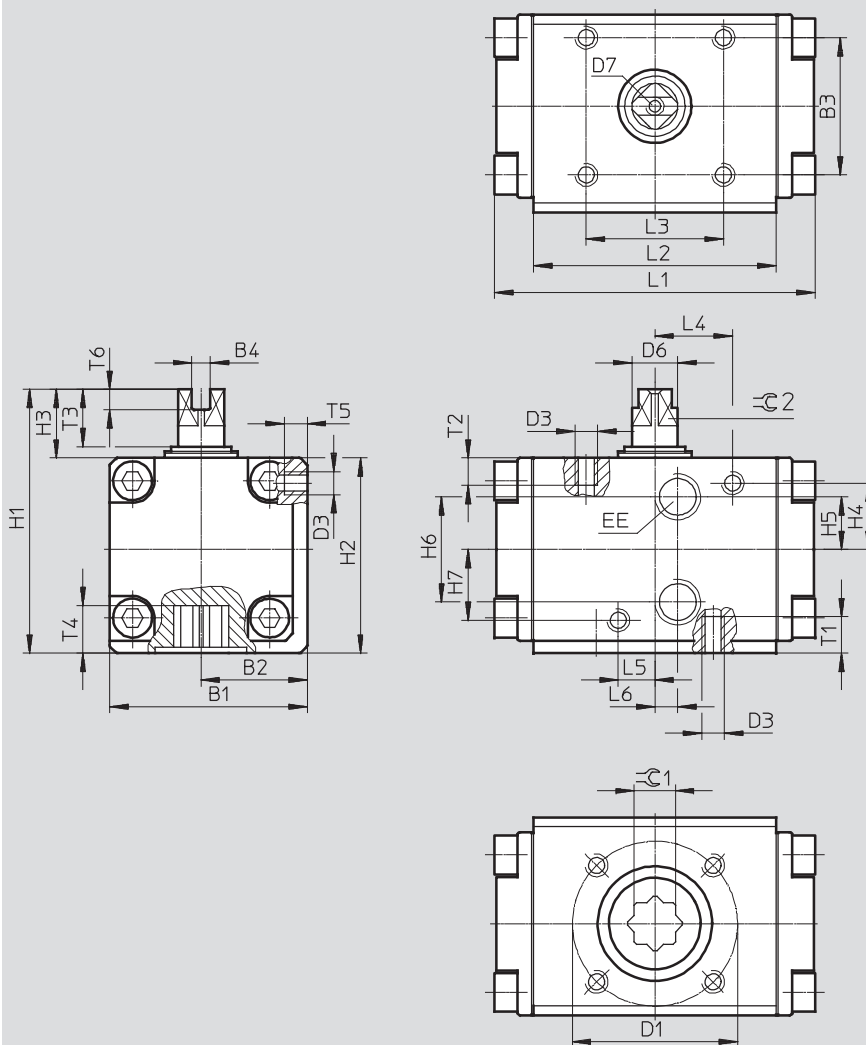
Technical data

FESTO

Dimensions

Size 0008

Download CAD Data → www.festo.com/us/cad



Size	B1	B2	B3	B4 +0.1	D1 Ø	D3	D6 Ø	D7	EE	H1	H2	H3	H4	H5	H6
DAPS-008-...	43.2	23.2	30	4	36	M5	10	M6	G1/8	57.7	42.7	15	14.5	11.5	23

Size	H7	L1	L2	L3	L4	L5	L6	T1	T2	T3	T4	T5	T6 +0.5	CG 1 H11	CG 2 h11
DAPS-008-...	15.5	70	53	30	17	8	5	8	6	12.4	10.1	5	4.5	9	8

Quarter turn actuators DAPS, double-acting

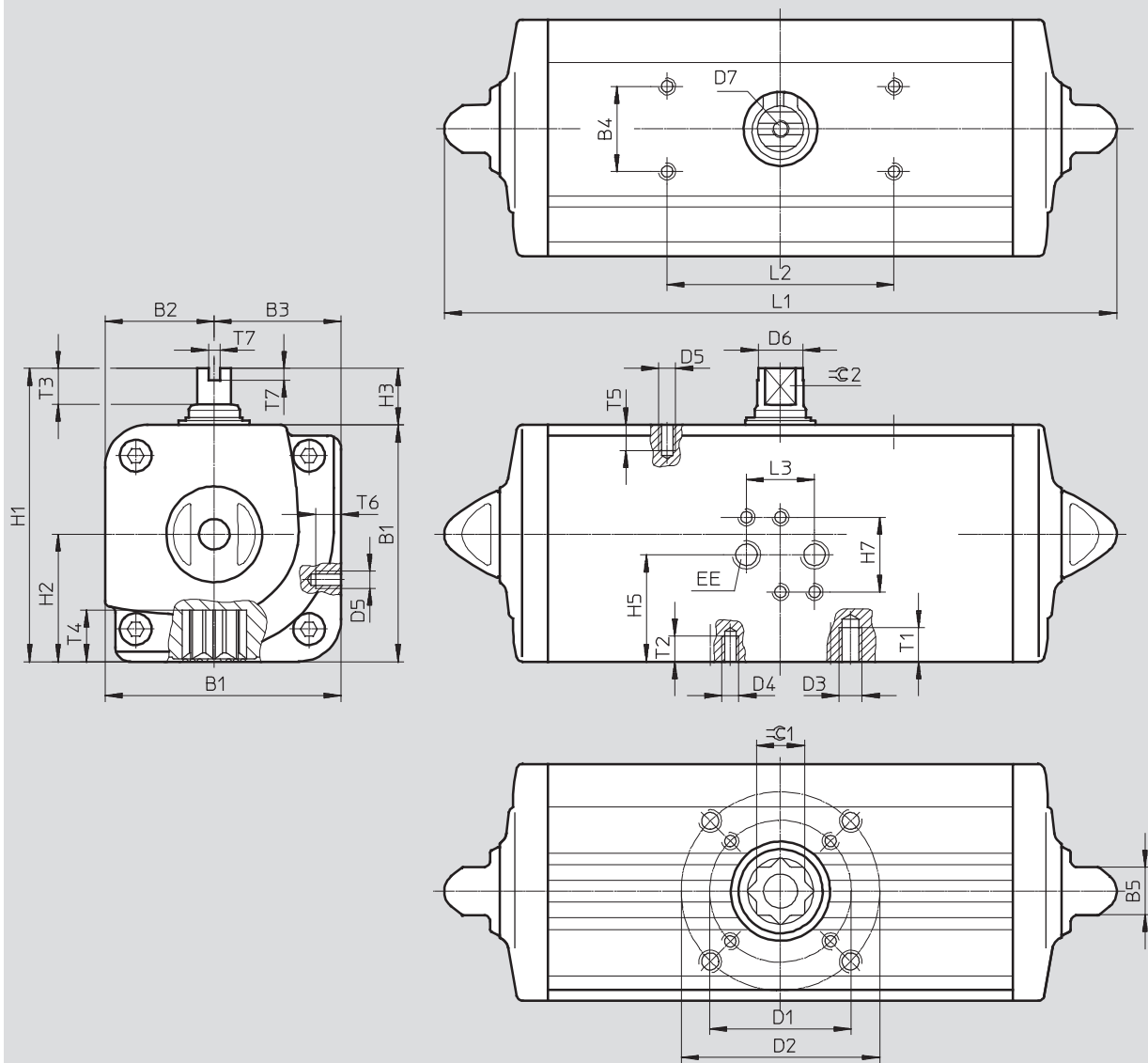
Technical data

FESTO

Dimensions

Size 0015 ... 1920

Download CAD Data → www.festo.com/us/cad



Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Size	B1	B2	B3	B4	B5	D1 Ø ±0.1	D2 Ø ±0.1	D3	D4	D5	D6 Ø	D7	EE	H1	H2
DAPS-0015-....-F03	52.2	24.2	28	30	13	36	–	–	M5	M5	9.2	M6	G1/8	72.2	28
DAPS-0015-....-F04						42			M5						
DAPS-0030-....-F0305	59.2	27.7	31.5		13	36	50	M6	M5		10.9			79.2	31.5
DAPS-0030-....-F04						42	–	–	M5						
DAPS-0060-....-F04	70.4	32.7	37.7		13	42	–	–	M5		14.5			90.4	37.7
DAPS-0060-....-F0507						50	70	M8	M6						
DAPS-0106-....-F0507	83.3	38.5	44.8		17	50	70	M8	M6		16.2			103.3	44.8
DAPS-0180-....-F0710	107.5	51	56.5		22	70	102	M10	M8		20.2			137.5	56.5
DAPS-0240-....-F0710	111.1	51	60.1		22	70	102	M10	M8		22.5			141.1	60.1
DAPS-0360-....-F0710	118	56	62		22	70	102	M10	M8		25.5			148	62

Size	H3	H5	H7	L1 ±2	L2	L3	T1	T2	T3	T4	T5	T6	T7	⊆ 1	⊆ 2
DAPS-0015-...-F03	20	28.8	32	159	80	24	–	8	10	13.2	6	7	4	11	8
DAPS-0015-...-F04							–	8							
DAPS-0030-...-F0305	20	32.3		174			9	8	10	13.2				11	9
DAPS-0030-...-F04							–	8							
DAPS-0060-...-F04	20	37.7		198			–	8	13	16.5				14	10
DAPS-0060-...-F0507							12	9							
DAPS-0106-...-F0507	20	44.8		237.1			12	9	13	19.3				17	12
DAPS-0180-...-F0710	30	56.5		289.9			15	12	16	24.8				22	15
DAPS-0240-...-F0710	30	60.1		313.6			15	12	17	24.8				22	15
DAPS-0360-...-F0710	30	62		339.3			15	12	19	24.3				22	19

Size	B1	B2	B3	B4	B5	D1 Ø ±0.1	D2 Ø ±0.1	D3	D4	D5	D6 Ø	D7	EE	H1	H2
DAPS-0480-...-F1012	134.9	62	72.9	30	27	102	125	M12	M10	M5	29	M6	G¼	164.9	72.9
DAPS-0720-...-F1012	148	69.5	78.5		27	102	125	M12	M10		31.8			178	78.5
DAPS-0960-...-F12	168	74.5	93.5		27	102	125	M12	M10		36.5			198	93.5
DAPS-0960-...-F14					27	140	–	–	M16						
DAPS-1440-...-F12	186	84.5	101.5		36	125	–	–	M12		41			216	101.5
DAPS-1440-...-F14					36	140			M16						
DAPS-1920-...-F14	207.7	93	114.7		36	140	–	–	M16		46			237.7	114.7
DAPS-1920-...-F1216					36	125	165	M20	M12						

Size	H3	H5	H7	L1	L2	L3	T1	T2	T3	T4	T5	T6	T7	≡ 1	≡ 2
DAPS-0480-...-F1012	30	57.4	32	387.7	80	24	18	15	19	29.5	6	7	4	27	19
DAPS-0720-...-F1012		61.5		433			18	15	19.5	29.5				27	22
DAPS-0960-...-F12		78		479.4			18	15	19.5	38.5				36	24
DAPS-0960-...-F14							—	24							
DAPS-1440-...-F12		86.5		567			—	18	19.5	38.5				36	27
DAPS-1440-...-F14							—	24							
DAPS-1920-...-F14		99.2		601			—	24	18.5	48.5				46	32
DAPS-1920-...-F1216							30	18							

Quarter turn actuators DAPS, double-acting

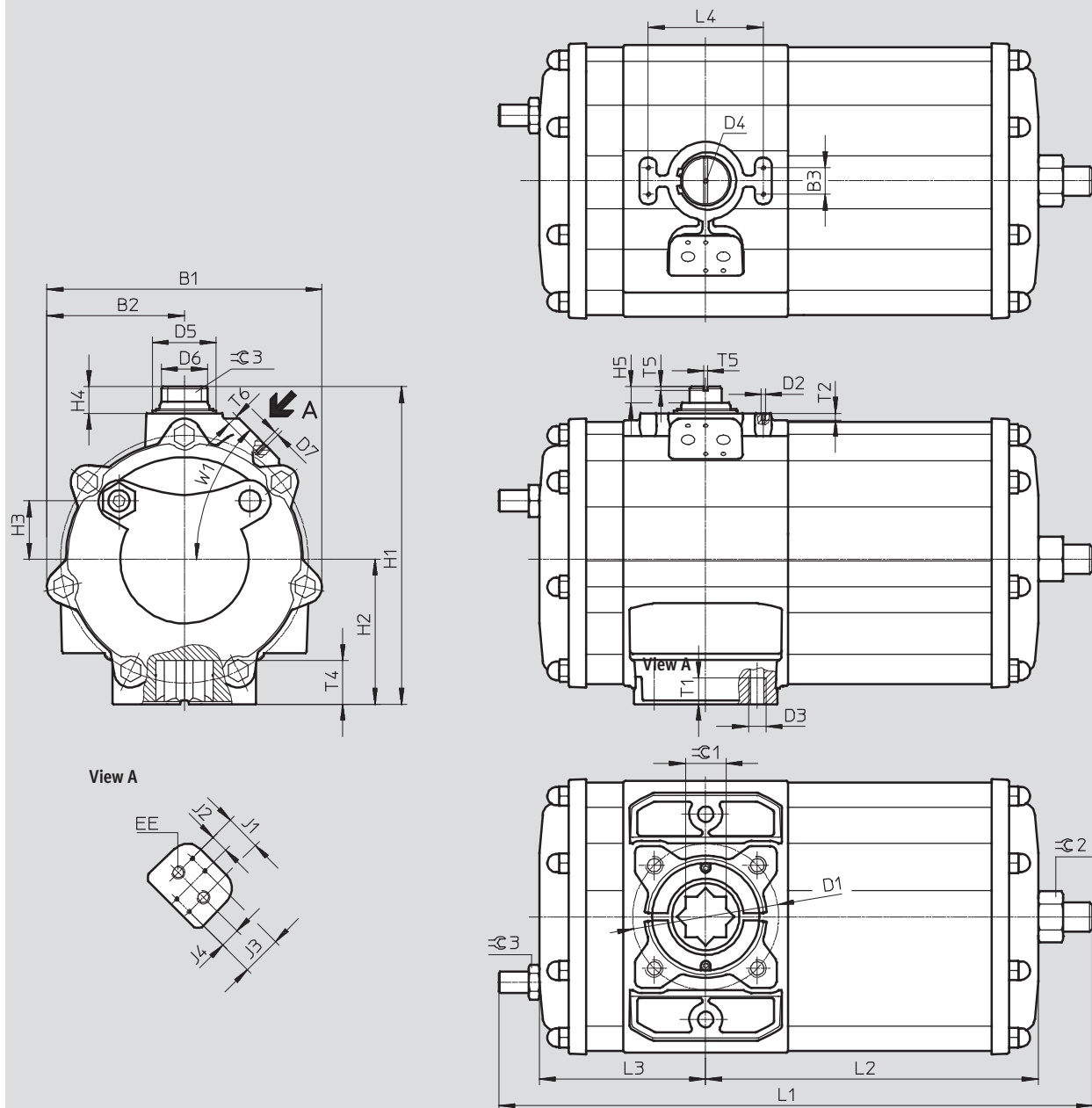
Technical data

FESTO

Dimensions

Size 2880

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	EE	H1	H2	H3	H4	H5	J1
DAPS-2880-...	311	155	30	165	M5	M20	M6	72	52	M6	G $\frac{3}{8}$	359	164	66	30	18	40

Size	J2	J3	J4	L1 ±2	L2	L3	L4	T1	T2	T4 ±0.8	T5	T6	W1	∅1	∅2	∅3
DAPS-2880-...	20	45	22.5	667	372	188	130	30	8	49.5	4	10	45°	46	50	36

Quarter turn actuators DAPS, double-acting

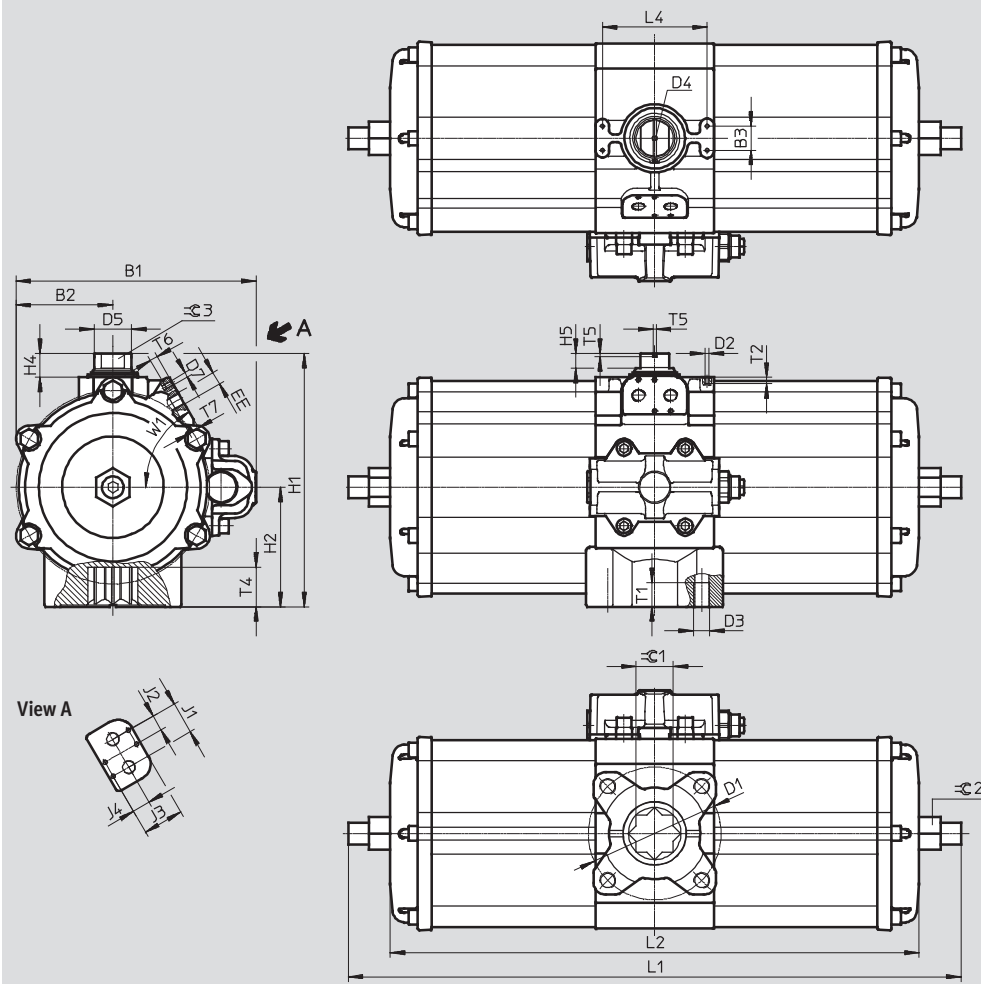
Technical data

FESTO

Dimensions

Size 3840

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D7	EE	H1	H2	H4	H5	J1	J2
DAPS-3840-...	298	120	30	165	M5	M20	M6	46	M6	G3/8	314	148.5	30	18.5	40	20

Size	J3	J4	L1 ±2	L2	L4	T1	T2	T4 ±1	T5	T6	T7	W1	≈C 1	≈C 2	≈C 3
DAPS-3840-...	45	22.5	765	614	130	30	8	49	4	10	13	60°	46	41	32

Quarter turn actuators DAPS, double-acting

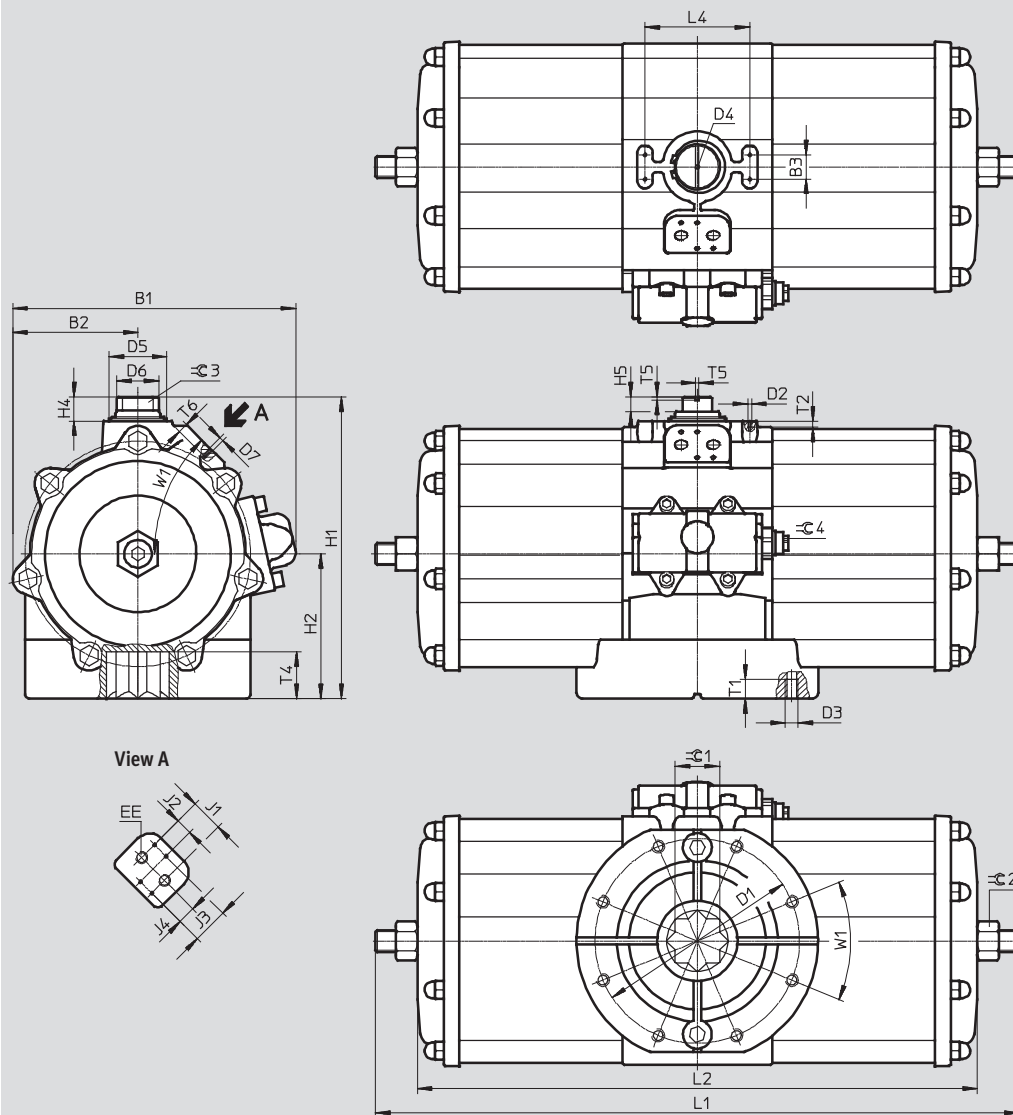
Technical data

FESTO

Dimensions

Size 5760

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6	D7	EE	H1	H2	H4	H5	J1
DAPS-5760-...	361	155	30	254	M5	M16	M6	72	52	M6	G $\frac{3}{8}$	374	179	30	18	40

Size	J2	J3	J4	L1 ±2	L2	L4	T1	T2	T4 ±0.8	T5	T6	W1	∠1	∠2	∠3	∠4
DAPS-5760-...	20	45	22.5	885	744	130	24	8	58	4	10	45°	55	50	36	15

Quarter turn actuators DAPS, double-acting

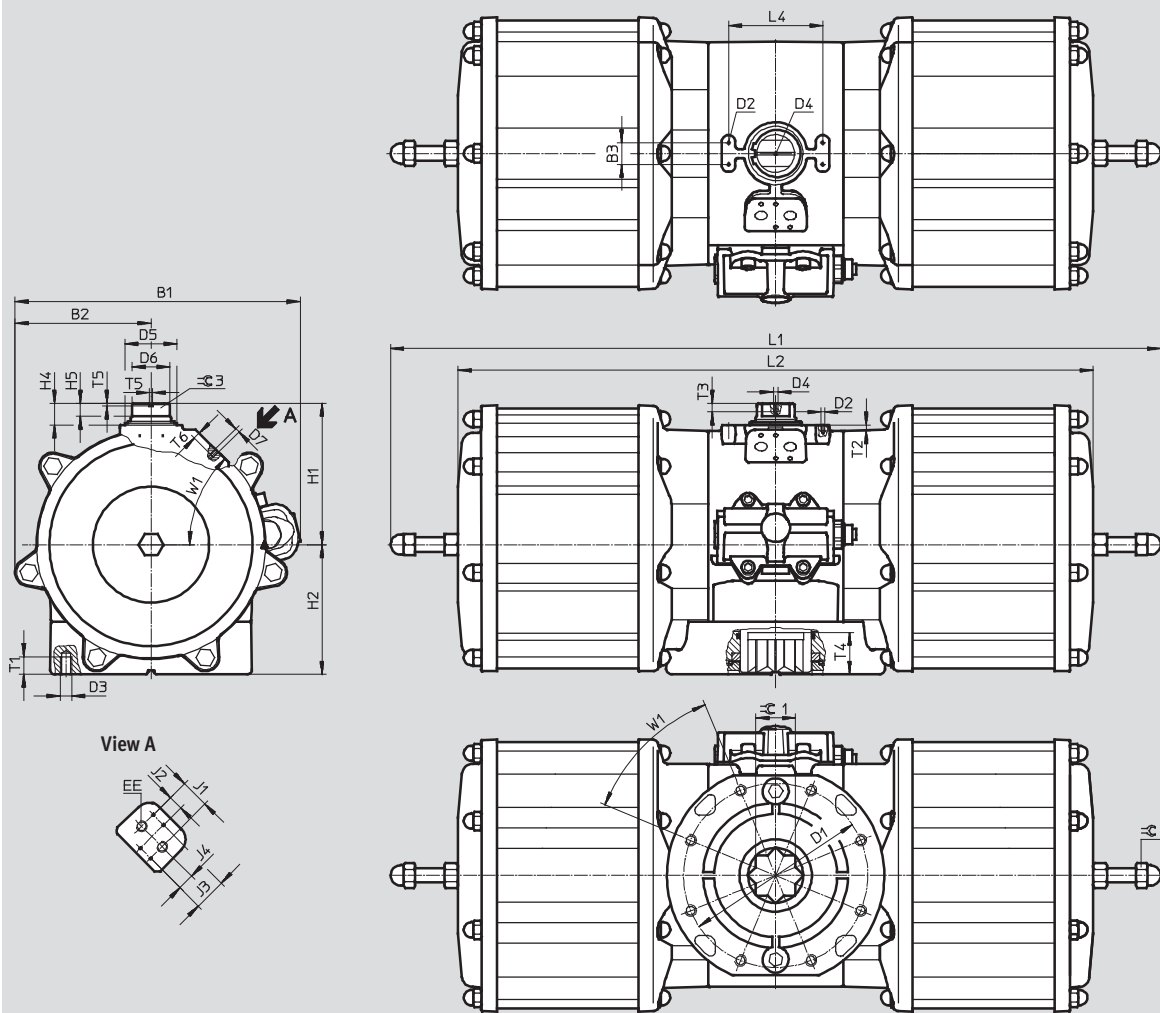
Technical data

FESTO

Dimensions

Size 8000

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	EE	H1	H2	H4	H5	J1
DAPS-8000-...	394	188	30	254	M5	M16	M6	72	52	M6	G $\frac{3}{8}$	195	179	30	18	40

Size	J2	J3	J4	L1	L2	L4	T1	T2	T3	T4	T5	T6	W1	≈C 1	≈C 2	≈C 3
DAPS-8000-...	20	45	22.5	1,044	877	130	24	8	12	58	4	10	45°	55	30	36

Quarter turn actuators DAPS, double-acting

Technical data

FESTO

Ordering data – Drives			
Part No.	Type	Part No.	Type
Size 0008		Size 0720	
549 666	DAPS-0008-090-R-F03	549 667	DAPS-0720-090-R-F1012
Size 0015		Size 0960	
533 417	DAPS-0015-090-R-F03	533 425	DAPS-0960-090-R-F1012
533 475	DAPS-0015-090-R-F04	533 478	DAPS-0960-090-R-F14
Size 0030		Size 1440	
533 418	DAPS-0030-090-R-F0305	549 668	DAPS-1440-090-R-F12
533 476	DAPS-0030-090-R-F04	549 669	DAPS-1440-090-R-F14
Size 0060		Size 1920	
533 419	DAPS-0060-090-R-F04	533 426	DAPS-1920-090-R-F14
533 477	DAPS-0060-090-R-F0507	533 479	DAPS-1920-090-R-F1216
Size 0106		Size 2880	
533 420	DAPS-0106-090-R-F0507	549 670	DAPS-2880-090-R-F16
Size 0180		Size 3840	
533 421	DAPS-0180-090-R-F0710	549 671	DAPS-3840-090-R-F16
Size 0240		Size 5760	
533 422	DAPS-0240-090-R-F0710	549 672	DAPS-5760-090-F25
Size 0360		Size 8000	
533 423	DAPS-0360-090-R-F0710	560 855	DAPS-8000-090-R-F25
Size 0480			
533 424	DAPS-0480-090-R-F1012		

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, double-acting

Technical data

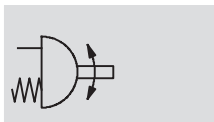
FESTO

Ordering data – Drives for variant T6		Part No.	Type
Size 0015		553170	DAPS-0015-090-R-F03-T6
		553171	DAPS-0015-090-R-F04-T6
Size 0030		553172	DAPS-0030-090-R-F0305-T6
		553173	DAPS-0030-090-R-F04-T6
Size 0060		553174	DAPS-0060-090-R-F04-T6
		553175	DAPS-0060-090-R-F0507-T6
Size 0106		553176	DAPS-0106-090-R-F0507-T6
Size 0180		553177	DAPS-0180-090-R-F0710-T6
Size 0240		553178	DAPS-0240-090-R-F0710-T6
Size 0360		553179	DAPS-0360-090-R-F0710-T6
Size 0480		553180	DAPS-0480-090-R-F1012-T6
Size 0720		553181	DAPS-0720-090-R-F1012-T6
Size 0960		553182	DAPS-0960-090-R-F12-T6
		553183	DAPS-0960-090-R-F14-T6
Size 1440		553184	DAPS-1440-090-R-F12-T6
		553185	DAPS-1440-090-R-F14-T6
Size 1920		553186	DAPS-1920-090-R-F14-T6
		553187	DAPS-1920-090-R-F1216-T6
Size 2880		553188	DAPS-2880-090-R-F16-T6
Size 3840		553189	DAPS-3840-090-R-F16-T6
Size 5760		553190	DAPS-5760-090-R-F25-T6

Quarter turn actuators DAPS, single-acting

Technical data

Function



-T- Size
0015 ... 4000

Pressure
15 ... 4000 Nm

Swivel angle

0 ... 90°

Wearing parts kits
→ 36



General technical data				
Size	0015 ... 0180	0240 ... 0960	1440 ... 1920	2880, 4000
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$
Design	Scotch yoke system			
Mode of operation	Single-acting			
Mounting position	Any			
Position sensing	None			
Cushioning	No cushioning			
Swivel angle	[°]	90		
End-position adjusting range at 0°	[°]	–	–	±5
End-position adjusting range at 90°	[°]	±2	±2	±5
Note regarding end-position adjusting range	One end position optionally adjustable			
Closing direction	Closes to the right			

Operating and environmental conditions		
Operating pressure ¹⁾	[bar]	2.8 ... 8.4
Nominal operating pressure	[bar]	5.6
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature	[°C]	–20 ... +80
Ambient temperature for variant T6	[°C]	–50 ... +60
Corrosion resistance class CRC ²⁾	3	
Connection to process valve as per standard	ISO 5211	
Valve connection as per standard	VDI/VDE 3845 (NAMUR)	

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

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

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

ATEX	
ATEX category for gas	II 2G
Explosion ignition protection type for gas	c TX X
ATEX category for dust	II 2D
Explosion ignition protection type for dust	c TX X
Explosion-proof temperature rating	–20 °C ≤ Ta ≤ +60 °C
Explosion-proof temperature rating T6	–50 °C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Air consumption [l/cycle] at 6 bar	
Size	
DAPS-0015	0.72
DAPS-0030	1.44
DAPS-0053	2.16
DAPS-0090	4.32
DAPS-0120	6
DAPS-0180	8.64
DAPS-0240	12
DAPS-0360	14
DAPS-0480	24
DAPS-0720	29.4
DAPS-0960	48
DAPS-1440	77
DAPS-1920	87.5
DAPS-2880	147
DAPS-4000	174.6

Weight [g]	
Size	
DAPS-0015	1,200
DAPS-0030	1,950
DAPS-0053	3,000
DAPS-0090	5,900
DAPS-0120	6,800
DAPS-0180	8,900
DAPS-0240	11,800
DAPS-0360	16,500
DAPS-0480	22,700
DAPS-0720	33,000
DAPS-0960	42,000
DAPS-1440	74,000
DAPS-1920	67,000
DAPS-2880	117,000
DAPS-4000	183,000

Materials		Material number
Housing	Wrought aluminium alloy	–
Cover	Wrought aluminium alloy	–
Shaft	High-alloy steel	1.4305
External screws	High-alloy steel	–
Seals	FPM, NBR, PUR	–
Seals T6	FVMQ, PTFE-reinforced	–
Note on materials	Contains PWIS (paint-wetting impairment substances)	–

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	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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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	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	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-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

Torque for size at 5.6 bar and swivel angle 0°

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-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	480	360	720	591	282	351	720	360	480	805	411	565	1,020	540	780	1,320	720	1,080
2	600	450	900	–	–	–	–	–	–	685	321	385	900	450	600	1,200	630	900
3	720	540	1,080	–	–	–	–	–	–	–	–	–	780	360	420	1,080	540	720
4	960	720	1,440	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-1920																		
1	640	480	960	778	377	468	960	480	640	1,074	548	754	1,360	720	1,040	1,760	960	1,440
2	800	600	1,200	–	–	–	–	–	–	914	428	514	1,200	600	800	1,600	840	1,200
3	960	720	1,440	–	–	–	–	–	–	–	–	–	1,040	480	560	1,440	720	960
4	1,280	960	1,920	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-2880																		
1	960	720	1,440	1,183	566	703	1,440	720	960	1,611	823	1,131	2,040	1,080	1,560	2,640	1,440	2,160
2	1,200	900	1,800	–	–	–	–	–	–	1,370	643	771	1,800	900	1,200	2,400	1,260	1,800
3	1,440	1,080	2,160	–	–	–	–	–	–	–	–	–	1,560	720	840	2,160	1,080	1,440
4	1,920	1,440	2,880	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DAPS-4000																		
1	1,333	1,000	2,000	1,524	714	857	2,000	1,000	1,333	2,238	1,143	1,571	2,833	1,500	2,166	3,666	2,000	2,999
2	1,666	1,250	2,500	–	–	–	–	–	–	1,905	893	1,071	2,500	1,250	1,666	3,333	1,750	2,499
3	1,999	1,500	3,000	–	–	–	–	–	–	–	–	–	2,167	1,000	1,166	3,000	1,500	1,999
4	2,666	2,000	4,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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	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	1,140	630	960	1,354	758.6	1,174
4	591.4	282.9	351.4	720	360	480	805.7	411.4	565.7	1,020	540	780	1,234	668.6	994.3
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
DAPS-1440															
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	1,542	835	1,242	1,800	990	1,500	–	–	–	–	–	–	–	–	–
3	1,422	745	1,062	1,680	900	1,320	1,851	1,002	1,491	2,280	1,260	1,920	2,708	1,517	2,348
4	1,182	565	702	1,440	720	960	1,611	822	1,131	2,040	1,080	1,560	2,468	1,337	1,988
DAPS-1920															
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	2,057	1,114	1,657	2,400	1,320	2,000	–	–	–	–	–	–	–	–	–
3	1,897	994	1,417	2,240	1,200	1,760	2,468	1,337	1,988	3,040	1,680	2,560	3,611	2,022	3,131
4	1,577	754	937	1,920	960	1,280	2,148	1,097	1,508	2,720	1,440	2,080	3,291	1,782	2,651
DAPS-2880															
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	3,085	1,671	2,485	3,600	1,980	3,000	–	–	–	–	–	–	–	–	–
3	2,845	1,491	2,125	3,360	1,800	2,640	3,702	2,006	2,982	4,560	2,520	3,840	5,417	3,034	4,697
4	2,365	1,131	1,405	2,880	1,440	1,920	3,222	1,645	2,262	4,080	2,160	3,120	4,937	2,674	3,977
DAPS-4000															
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	4,285	2,321	3,451	5,000	2,750	4,166	–	–	–	–	–	–	–	–	–
3	3,952	2,071	2,951	4,666	2,500	3,665	5,143	2,786	4,141	6,333	3,500	5,332	7,523	4,214	6,522
4	3,286	1,571	1,952	4,000	2,000	2,666	4,476	2,286	3,142	5,666	3,000	4,332	6,857	3,714	5,523

Torque for size at 5.6 bar and swivel angle 0°

Quarter turn actuators DAPS, single-acting

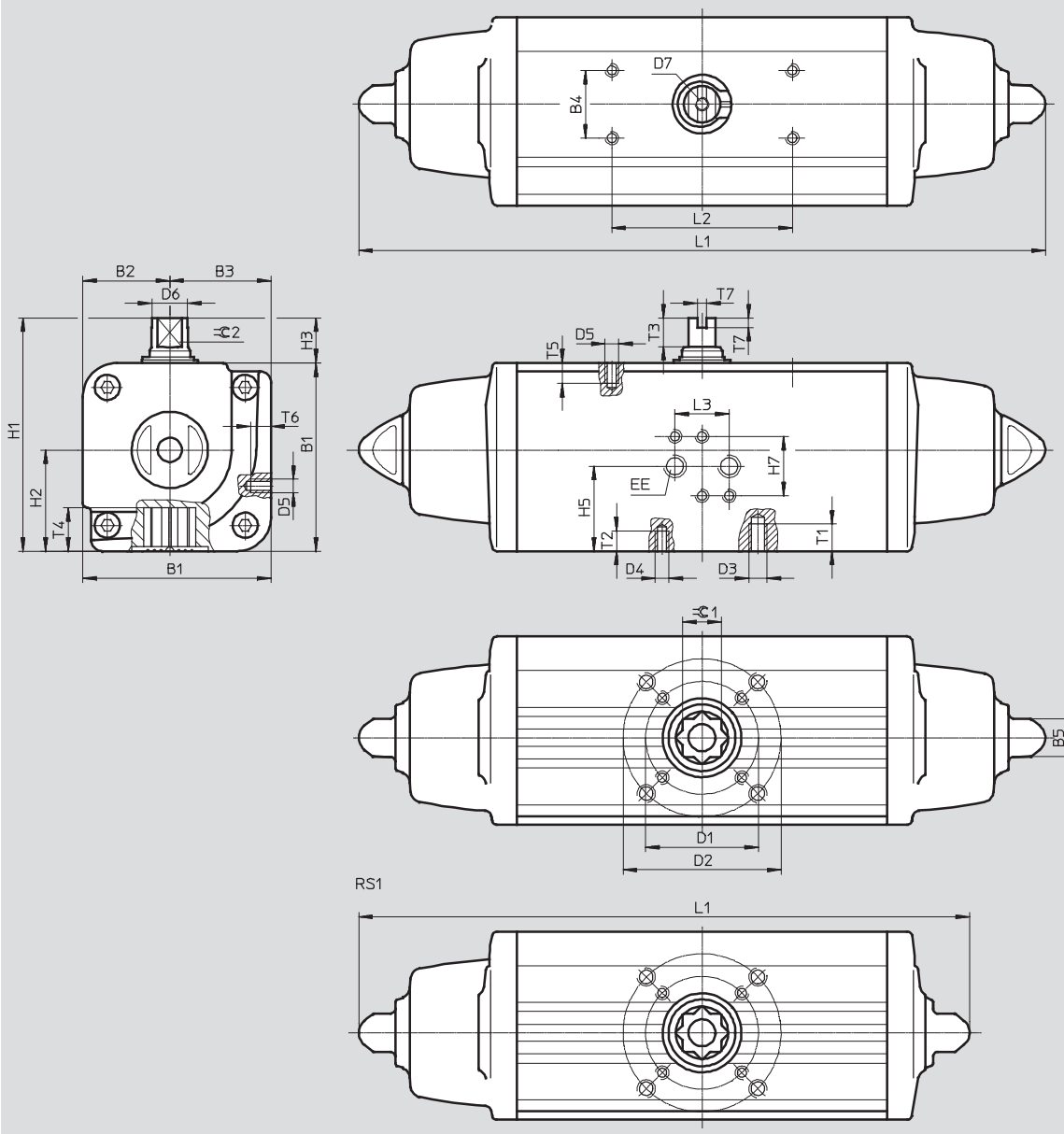
Technical data

FESTO

Dimensions

Size 0015 ... 0960

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Quarter turn actuators DAPS, single-acting

Technical data

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Size	B1	B2	B3	B4	B5	D1 Ø ±0.1	D2 Ø ±0.1	D3	D4	D5	D6 Ø	D7	EE	H1	H2	H3
DAPS-0015-....-F0305	59.2	27.7	31.5	30	13	36	50	M6	M5	M5	10.9	M6	G1/8	79.2	31.5	20
DAPS-0015-....-F04					13	42	–	–								
DAPS-0030-....-F04	70.4	32.7	37.7		13	42	–	–	M5		14.5					
DAPS-0030-....-F0507					13	50	70	M8	M6							
DAPS-0053-....-F0507	83.3	38.5	44.8		17	50	70	M8	M6		16.2			103.3	44.8	20
DAPS-0090-....-F0710	107.5	51	56.5		22	70	102	M10	M8		20.2			137.5	56.5	30
DAPS-0120-....-F0710	111.1	51	60.1		22	70	102	M10	M8		22.5			141.1	60.1	30
DAPS-0180-....-F0710	118	56	62		22	70	102	M10	M8		25.5			148	62	30

Size	H5	H7	L1		L2	L3	T1	T2	T3	T4	T5	T6	T7	≡C 1	≡C 2						
			RS1	RS ...																	
DAPS-0015-...-F0305	32.3	32	203.8	233.3	80	24	9	8	10	13.2	6	7	4	11	9						
DAPS-0015-...-F04							–														
DAPS-0030-...-F04	37.7		228.5	259			–	8	13	16.5				14	10						
DAPS-0030-...-F0507							12	9													
DAPS-0053-...-F0507	44.8		270.7	304.3			12	9	13	19.3				17	12						
DAPS-0090-...-F0710	56.5		341.8	393.7			15	12	16	24.8				22	15						
DAPS-0120-...-F0710	60.1		361.6	409.6			15	12	17	24.8				22	15						
DAPS-0180-...-F0710	62		406.6	474			15	12	19	24.3				22	19						

Size	B1	B2	B3	B4	B5	D1 Ø	D2 Ø	D3	D4	D5	D6 Ø	D7	EE	H1	H2	H3
DAPS-0240-...-F1012	134.9	62	72.9	30	27	102	125	M12	M10	M5	29	M6	G¼	164.9	72.9	30
DAPS-0360-...-F1012	148	69.5	78.5		27	102	125	M12	M10		31.8			178	78.5	
DAPS-0480-...-F1012	168	74.5	93.5		27	102	125	M12	M10		36.5			198	93.5	
DAPS-0480-...-F14					27	140	–	–	M16							
DAPS-0720-...-F12	186	84.5	101.5		36	125	–	–	M12		41			216	101.5	
DAPS-0720-...-F14					36	140	–	–	M16							
DAPS-0960-...-F14	207.7	93	114.7		36	140	–	–	M16		46			237.7	114.7	
DAPS-0960-...-F1216					36	125	165	M20	M12							

Size	H5	H7	L1		L2	L3	T1	T2	T3	T4	T5	T6	T7	≈C1	≈C2
			RS1	RS...											
DAPS-0240-...-F1012	57.4	32	454	520.5	80	24	18	15	19	29.5	6	7	4	27	19
DAPS-0360-...-F1012	61.5		523	613			18	15	19.5	29.5				27	22
DAPS-0480-...-F1012	78		563.8	648.2			18	15	19.5	38.5				36	24
DAPS-0480-...-F14							–	24							
DAPS-0720-...-F12	86.5		683	798			–	18	19.5	38.5				36	27
DAPS-0720-...-F14							–	24							
DAPS-0960-...-F14	99.2		714.4	828			–	24	18.5	48.5				46	32
DAPS-0960-...-F1216							30	18							

Quarter turn actuators DAPS, single-acting

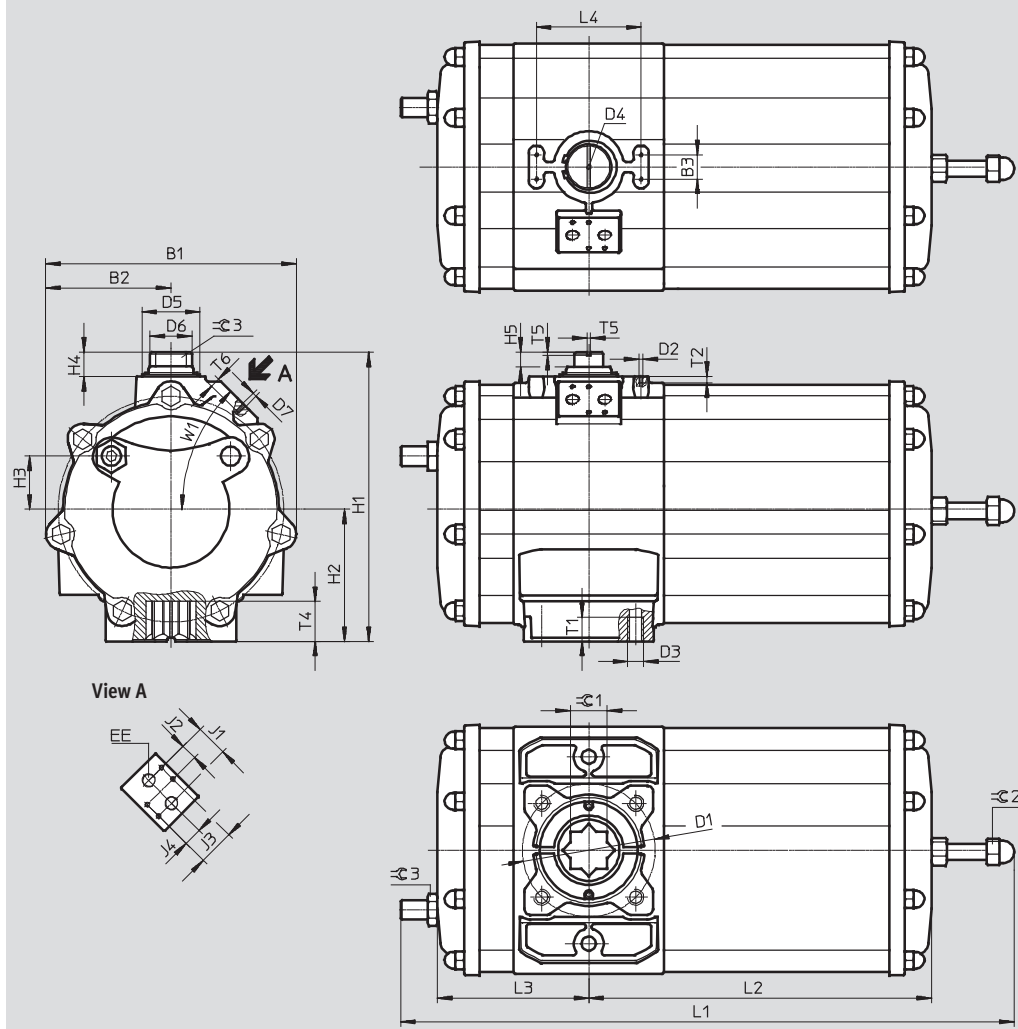
Technical data

FESTO

Dimensions

Size 1440

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	EE	H1	H2	H3	H4	H5	J1
DAPS-1440-...	311	155	30	165	M5	M20	M6	72	52	M6	G $\frac{3}{8}$	359	164	66	30	18	40

Size	J2	J3	J4	L1 ±3	L2	L3	L4	T1	T2	T4 ±0.8	T5	T6	W1	∠ 1	∠ 2	∠ 3
DAPS-1440-...	20	45	22.5	834	498	188	130	30	8	49.5	4	10	45°	46	30	36

Quarter turn actuators DAPS, single-acting

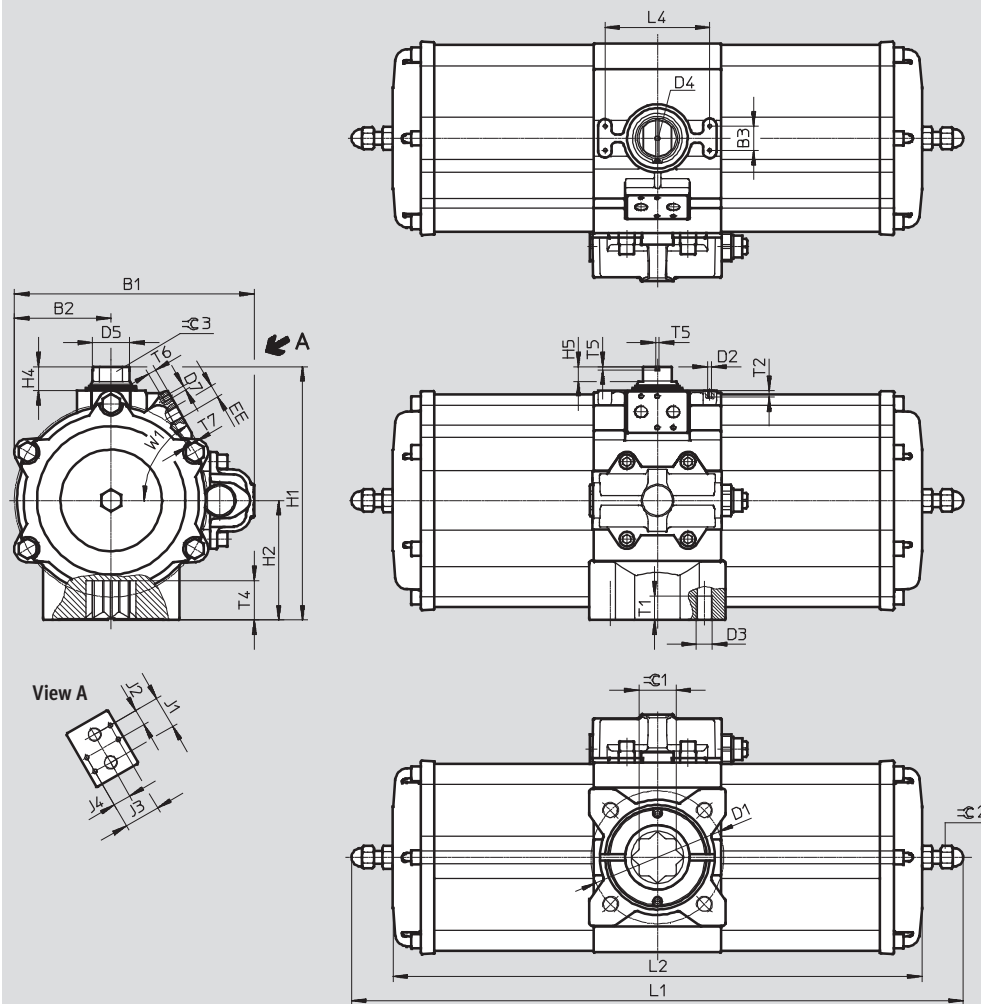
Technical data

FESTO

Dimensions

Size 1920

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D7	EE	H1	H2	H4	H5	J1	J2
DAPS-1920-...	298	120	30	165	M5	M20	M6	46	M6	G $\frac{3}{8}$	314	148.5	30	18.5	40	20

Size	J3	J4	L1 ±3	L2	L4	T1	T2	T4 ±1	T5	T6	T7	W1	∅ 1	∅ 2	∅ 3
DAPS-1920-...	45	22.5	1001	857	130	30	8	49	4	10	13	60°	46	24	32

Quarter turn actuators DAPS, single-acting

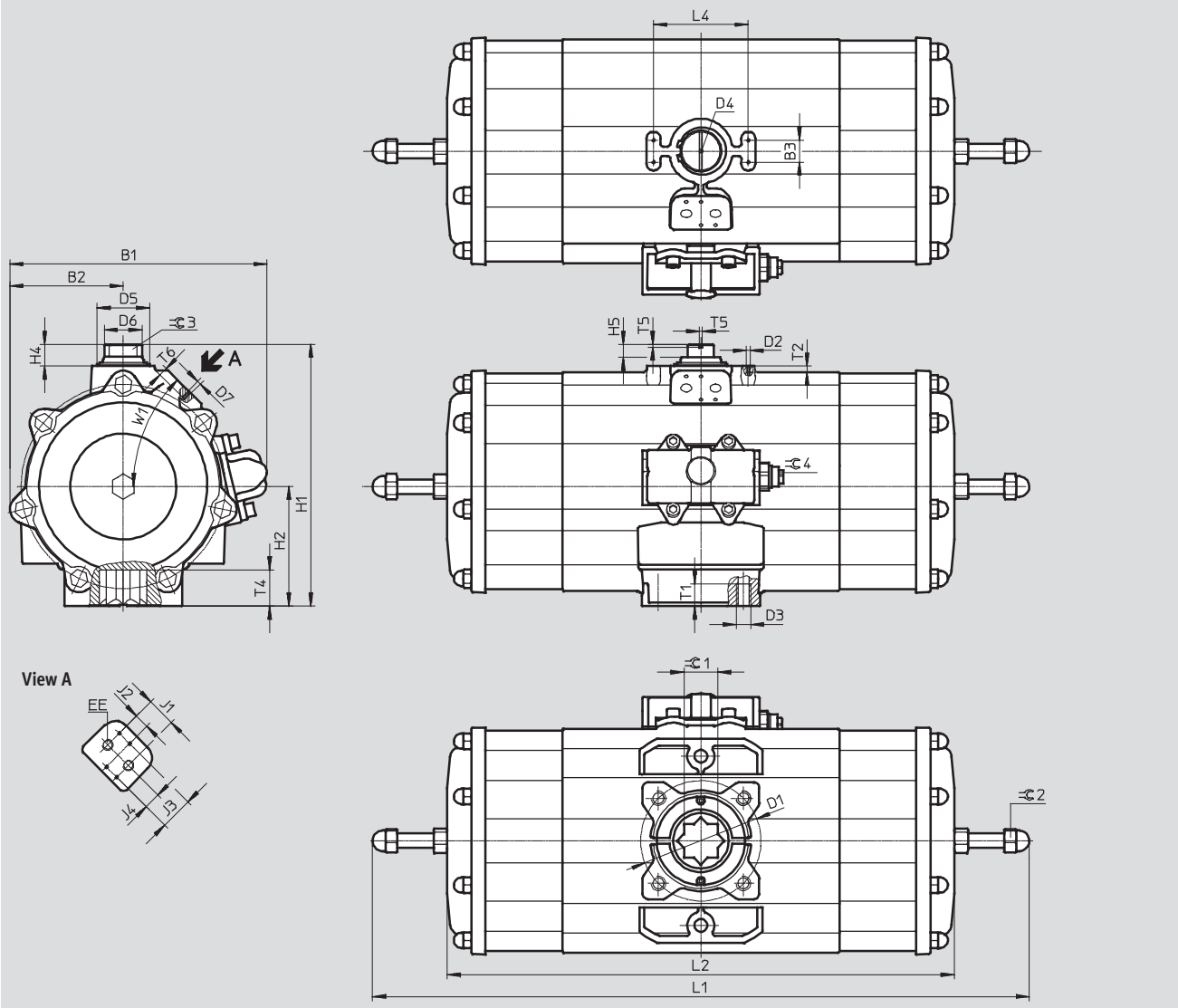
Technical data

FESTO

Dimensions

Size 2880

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	EE	H1	H2	H4	H5	J1
DAPS-2880-...	361	155	30	165	M5	M20	M6	72	52	M6	G $\frac{3}{8}$	359	164	30	18	40

Size	J2	J3	J4	L1 ±3	L2	L4	T1	T2	T4	T5	T6	W1	≈C 1	≈C 2	≈C 3	≈C 4
DAPS-2880-...	20	45	22.5	1,201	996	130	30	8	49.5	4	10	45°	46	30	36	15

Quarter turn actuators DAPS, single-acting

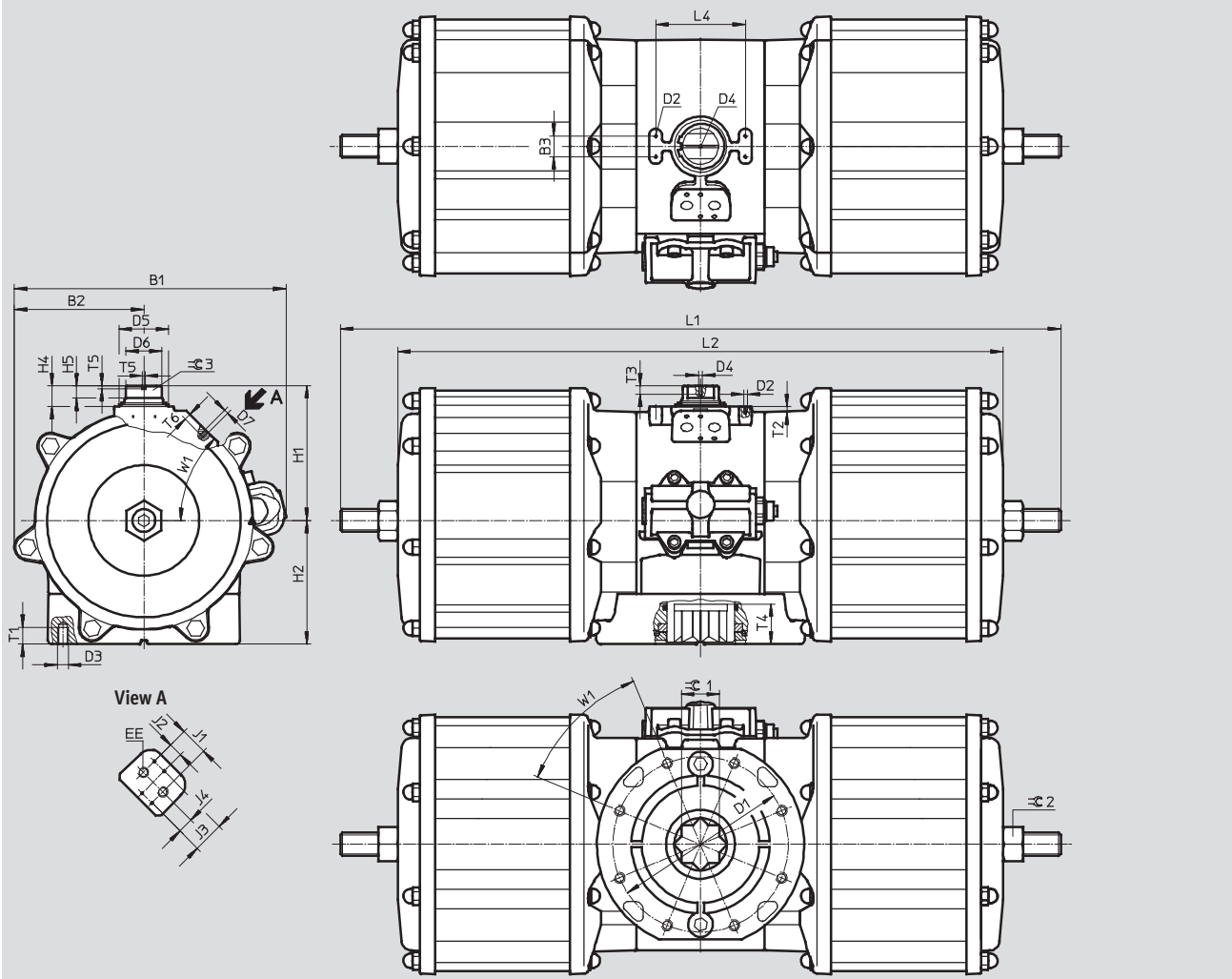
Technical data

FESTO

Dimensions

Size 4000

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Size	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	EE	H1	H2	H4	H5	J1
DAPS-4000-...	394	188	30	254	M5	M16	M6	72	52	M6	G $\frac{3}{8}$	195	179	30	18	40

Size	J2	J3	J4	L1	L2	L4	T1	T2	T3	T4	T5	T6	W1	≈ 1	≈ 2	≈ 3
DAPS-4000-...	20	45	22.5	1,370	1,184	130	24	8	12	58	4	10	45°	55	50	36

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

Ordering data		Part No.	Type
Size 0015			
533 427	DAPS-0015-090-RS1-F0305		
533 480	DAPS-0015-090-RS1-F04		
533 428	DAPS-0015-090-RS2-F0305		
533 481	DAPS-0015-090-RS2-F04		
533 429	DAPS-0015-090-RS3-F0305		
533 482	DAPS-0015-090-RS3-F04		
533 430	DAPS-0015-090-RS4-F0305		
533 483	DAPS-0015-090-RS4-F04		
Size 0030			
533 431	DAPS-0030-090-RS1-F04		
533 484	DAPS-0030-090-RS1-F0507		
533 432	DAPS-0030-090-RS2-F04		
533 485	DAPS-0030-090-RS2-F0507		
533 433	DAPS-0030-090-RS3-F04		
533 486	DAPS-0030-090-RS3-F0507		
533 434	DAPS-0030-090-RS4-F04		
533 487	DAPS-0030-090-RS4-F0507		
Size 0053			
533 435	DAPS-0053-090-RS1-F0507		
533 436	DAPS-0053-090-RS2-F0507		
533 437	DAPS-0053-090-RS3-F0507		
533 438	DAPS-0053-090-RS4-F0507		
Size 0090			
533 439	DAPS-0090-090-RS1-F0710		
533 440	DAPS-0090-090-RS2-F0710		
533 441	DAPS-0090-090-RS3-F0710		
533 442	DAPS-0090-090-RS4-F0710		
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		
Size 0180			
533 447	DAPS-0180-090-RS1-F0710		
533 448	DAPS-0180-090-RS2-F0710		
533 449	DAPS-0180-090-RS3-F0710		
533 450	DAPS-0180-090-RS4-F0710		
Size 0240			
533 451	DAPS-0240-090-RS1-F1012		
533 452	DAPS-0240-090-RS2-F1012		
533 453	DAPS-0240-090-RS3-F1012		
533 454	DAPS-0240-090-RS4-F1012		
Size 0360			
549 673	DAPS-0360-090-RS1-F1012		
549 674	DAPS-0360-090-RS2-F1012		
549 675	DAPS-0360-090-RS3-F1012		
549 676	DAPS-0360-090-RS4-F1012		
Size 0480			
533 455	DAPS-0480-090-RS1-F1012		
533 488	DAPS-0480-090-RS1-F14		
533 456	DAPS-0480-090-RS2-F1012		
533 489	DAPS-0480-090-RS2-F14		
533 457	DAPS-0480-090-RS3-F1012		
533 490	DAPS-0480-090-RS3-F14		
533 458	DAPS-0480-090-RS4-F1012		
533 491	DAPS-0480-090-RS4-F14		
Size 0720			
549 677	DAPS-0720-090-RS1-F12		
549 681	DAPS-0720-090-RS1-F14		
549 678	DAPS-0720-090-RS2-F12		
549 682	DAPS-0720-090-RS2-F14		
549 679	DAPS-0720-090-RS3-F12		
549 683	DAPS-0720-090-RS3-F14		
549 680	DAPS-0720-090-RS4-F12		
549 684	DAPS-0720-090-RS4-F14		
Size 0960			
533 459	DAPS-0960-090-RS1-F14		
533 492	DAPS-0960-090-RS1-F1216		
533 460	DAPS-0960-090-RS2-F14		
533 493	DAPS-0960-090-RS2-F1216		
533 461	DAPS-0960-090-RS3-F14		
533 494	DAPS-0960-090-RS3-F1216		
533 462	DAPS-0960-090-RS4-F14		
533 495	DAPS-0960-090-RS4-F1216		
Size 1440			
549 685	DAPS-1440-090-RS1-F16		
549 686	DAPS-1440-090-RS2-F16		
549 687	DAPS-1440-090-RS3-F16		
549 688	DAPS-1440-090-RS4-F16		
Size 1920			
549 689	DAPS-1920-090-RS1-F16		
549 690	DAPS-1920-090-RS2-F16		
549 691	DAPS-1920-090-RS3-F16		
549 692	DAPS-1920-090-RS4-F16		
Size 2880			
549 693	DAPS-2880-090-RS1-F16		
549 694	DAPS-2880-090-RS2-F16		
549 695	DAPS-2880-090-RS3-F16		
549 696	DAPS-2880-090-RS4-F16		
Size 4000			
560 856	DAPS-4000-090-RS1-F25		
561 694	DAPS-4000-090-RS2-F25		
561 695	DAPS-4000-090-RS3-F25		
561 696	DAPS-4000-090-RS4-F25		

Quarter turn actuators DAPS, single-acting

Technical data

FESTO

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		

Quarter turn actuators DAPS, single-acting

Technical data

Ordering data – Drives for variant T6		Part No.	Type
Size 0015			
553191	DAPS-0015-090-RS2-F0305-T6		
553192	DAPS-0015-090-RS2-F04-T6		
553210	DAPS-0015-090-RS3-F0305-T6		
553211	DAPS-0015-090-RS3-F04-T6		
553229	DAPS-0015-090-RS4-F0305-T6		
553230	DAPS-0015-090-RS4-F04-T6		
Size 0030			
553193	DAPS-0030-090-RS2-F04-T6		
553194	DAPS-0030-090-RS2-F0507-T6		
553212	DAPS-0030-090-RS3-F04-T6		
553213	DAPS-0030-090-RS3-F0507-T6		
553231	DAPS-0030-090-RS4-F04-T6		
553232	DAPS-0030-090-RS4-F0507-T6		
Size 0053			
553195	DAPS-0053-090-RS2-F0507-T6		
553214	DAPS-0053-090-RS3-F0507-T6		
553233	DAPS-0053-090-RS4-F0507-T6		
Size 0090			
553196	DAPS-0090-090-RS2-F0710-T6		
553215	DAPS-0090-090-RS3-F0710-T6		
553234	DAPS-0090-090-RS4-F0710-T6		
Size 0120			
553197	DAPS-0120-090-RS2-F0710-T6		
553216	DAPS-0120-090-RS3-F0710-T6		
553235	DAPS-0120-090-RS4-F0710-T6		
Size 0180			
553198	DAPS-0180-090-RS2-F0710-T6		
553217	DAPS-0180-090-RS3-F0710-T6		
553236	DAPS-0180-090-RS4-F0710-T6		
Size 0240			
553199	DAPS-0240-090-RS2-F1012-T6		
553218	DAPS-0240-090-RS3-F1012-T6		
553237	DAPS-0240-090-RS4-F1012-T6		
Size 0360			
553200	DAPS-0360-090-RS2-F1012-T6		
553219	DAPS-0360-090-RS3-F1012-T6		
553238	DAPS-0360-090-RS4-F1012-T6		
Size 0480			
553201	DAPS-0480-090-RS2-F12-T6		
553202	DAPS-0480-090-RS2-F14-T6		
553220	DAPS-0480-090-RS3-F12-T6		
553221	DAPS-0480-090-RS3-F14-T6		
553239	DAPS-0480-090-RS4-F12-T6		
553240	DAPS-0480-090-RS4-F14-T6		
Size 0720			
553203	DAPS-0720-090-RS2-F12-T6		
553204	DAPS-0720-090-RS2-F14-T6		
553222	DAPS-0720-090-RS3-F12-T6		
553223	DAPS-0720-090-RS3-F14-T6		
553241	DAPS-0720-090-RS4-F12-T6		
553242	DAPS-0720-090-RS4-F14-T6		
Size 0960			
553205	DAPS-0960-090-RS2-F14-T6		
553206	DAPS-0960-090-RS2-F1216-T6		
553224	DAPS-0960-090-RS3-F14-T6		
553225	DAPS-0960-090-RS3-F1216-T6		
553243	DAPS-0960-090-RS4-F14-T6		
553244	DAPS-0960-090-RS4-F1216-T6		
Size 1440			
553207	DAPS-1440-090-RS2-F16-T6		
553245	DAPS-1440-090-RS4-F16-T6		
Size 1920			
553208	DAPS-1920-090-RS2-F16-T6		
553227	DAPS-1920-090-RS3-F16-T6		
553246	DAPS-1920-090-RS4-F16-T6		
Size 2880			
553209	DAPS-2880-090-RS2-F16-T6		
553228	DAPS-2880-090-RS3-F16-T6		
553247	DAPS-2880-090-RS4-F16-T6		

Quarter turn actuators DAPS CR, double-acting

Technical data

FESTO

Function



Swivel angle

0 ... 90°

-T-

Size

0015 ... 0480

Pressure

15 ... 480 Nm



General technical data						
Size	0015	0030	0060	0120	0240	0480
Pneumatic connection	G1/8					
Design	Scotch yoke system					
Mode of operation	Double-acting					
Mounting position	Any					
Position sensing	None					
Cushioning	No cushioning					
Swivel angle [°]	90					
Closing direction	Closes to right					

Operating and environmental conditions						
Size	0015	0030	0060	0120	0240	0480
Operating pressure [bar]	2.5 ... 8.4					
Nominal operating pressure [bar]	5.6					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Ambient temperature [°C]	-20 ... +80					
Corrosion resistance class CRC ¹⁾	3					
Connection to process valve as per standard	-		ISO 5211			
Valve connection as per standard	-		VDI/VDE 3845 (NAMUR)			

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

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

ATEX	
ATEX category for gas	II 2G
Explosion ignition protection type for gas	c TX X
ATEX category for dust	II 2D
Explosion ignition protection type for dust	c TX X
Explosion-proof temperature rating	-20 °C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Quarter turn actuators DAPS CR, double-acting

Technical data

Air consumption [l/cycle 0°-90°-0°] at 6 bar		Size	
Size		Size	
DAPS-0015	0.5	DAPS-0720	3.6
DAPS-0030	0.9	DAPS-0960	7.1
DAPS-0060	1.7	DAPS-1440	14.3

Weight [g]		Size	
Size		Size	
DAPS-0015	800	DAPS-0120	3,300
DAPS-0030	1,200	DAPS-0240	5,600
DAPS-0060	1,800	DAPS-0480	9,500

Materials		
Quarter turn actuators		Material number
Housing	High-alloy stainless steel	1.4408
Cover	High-alloy stainless steel	1.4408
Shaft	High-alloy stainless steel	1.4301
External screws	High-alloy stainless steel	–
Seals	FPM, NBR, PUR	–
Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	–

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°

Quarter turn actuators DAPS CR, double-acting

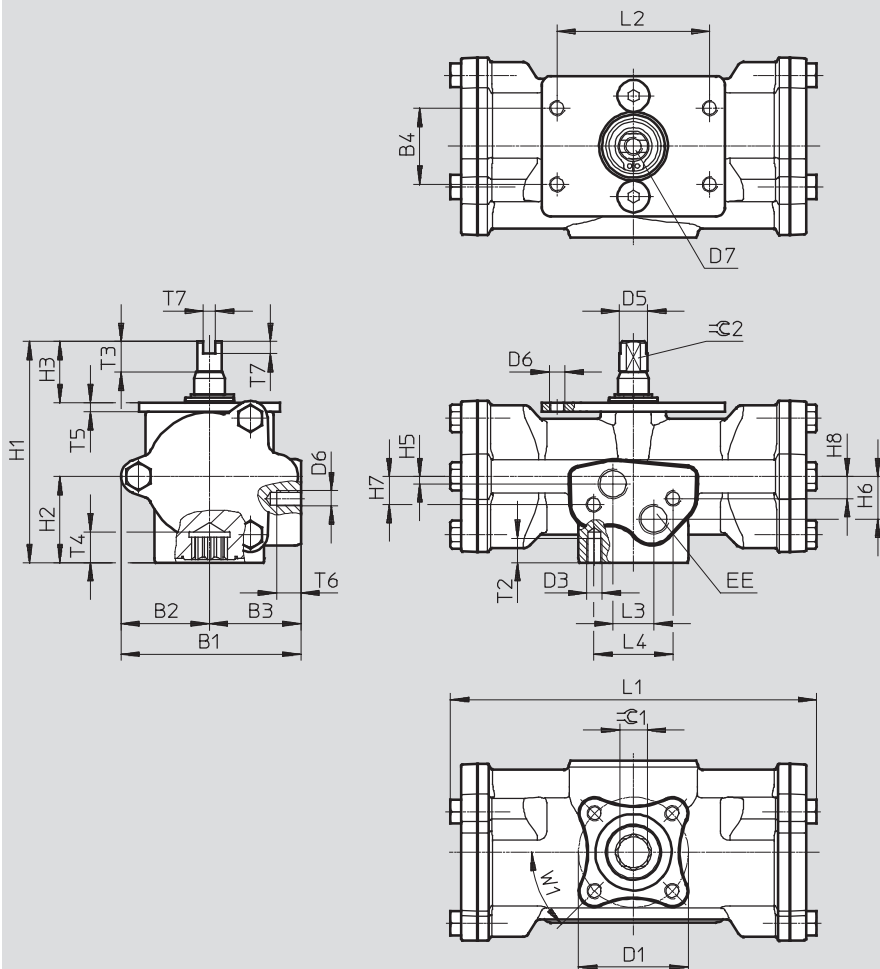
Technical data

FESTO

Dimensions

DAPS-...-090-R-F03-CR

Download CAD Data → www.festo.com/us/cad



Size	B1	B2	B3	B4	D1 Ø	D3	D5 Ø	D6	D7	EE	H1	H2	H3	H5	H6
DAPS-0015-090-R-F03-CR	59	29	30	25	36	M5	9.2	M5	M6	G $\frac{1}{8}$	72.4	28.2	20	2.4	14
DAPS-0030-090-R-F03-CR	68.1	34.1	34	25	36	M5	10.9	M5	M6	G $\frac{1}{8}$	80.4	32.7	20	3	16

Size	H7	H8	L1 ±2	L2	L3	L4	T2	T3	T4 ±0.4	T5	T6	T7	⌀1 H11	⌀2 h11	W1
DAPS-0015-090-R-F03-CR	9.2	7.2	120	50	13.4	26	8	10	10.1	3	8	4	9	8	45°
DAPS-0030-090-R-F03-CR	10.5	8.5	134.6	50	12	26	8	10	10.2	3	8	4	9	9	45°

Quarter turn actuators DAPS CR, double-acting

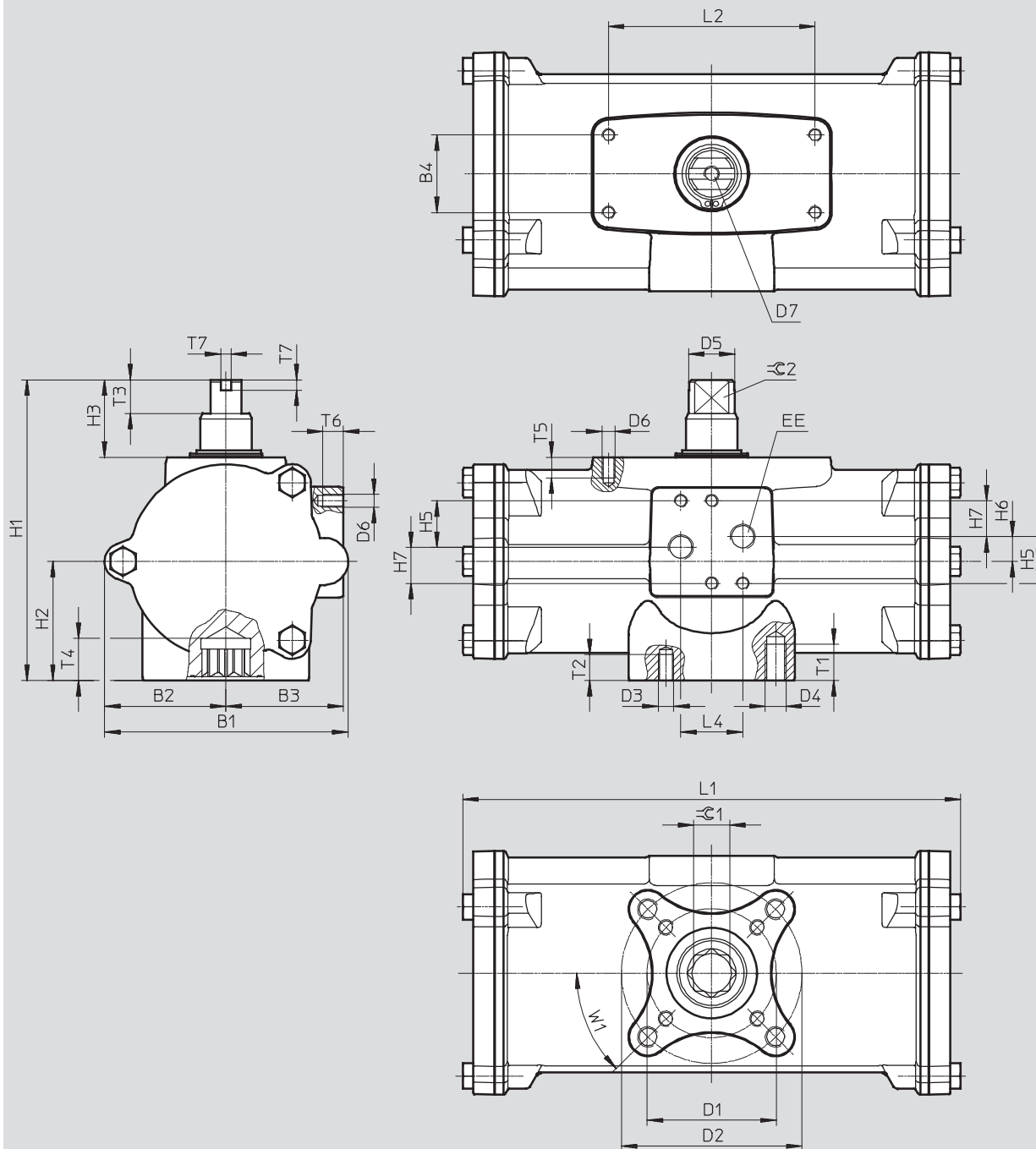
Technical data

FESTO

Dimensions

DAPS-...-090-R-...-CR

Download CAD Data → www.festo.com/us/cad



Quarter turn actuators DAPS CR, double-acting

Technical data

FESTO

Size	B1	B2	B3	B4	D1 ∅ ±0.1	D2 ∅ ±0.1	D3	D4	D5 ∅	D6	D7	EE	H1	H2	H3	H5
DAPS-0060-...-R-F0305-CR	80.3	41.1	39.2	25	36	50	M5	M6	14.5	M5	M6	G1/8	92.4	37.6	20	18
DAPS-0120-...-R-F0507-CR	94.4	47	45.5	30	50	70	M6	M8	18	M5	M6	G1/8	116.5	46.1	30	18
DAPS-240-...-R-F0507-CR	117	60.2	54.5	30	50	70	M6	M8	22.5	M5	M6	G1/8	136.4	56.1	30	18
DAPS-480-...-R-F0710-CR	139.7	71	67	30	70	102	M8	M10	29	M5	M6	G1/8	160	68	30	18

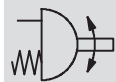
Size	H6	H7	L1 ±2	L2	L4	T1	T2	T3	T4 ±0.4	T5	T6	T7	≈C 1 H11	≈C 2 h11	W1
DAPS-0060-...-R-F0305-CR	9.6	14	158.4	50	24	10	8	13	12.1	8	8	4	11	10	45°
DAPS-0120-...-R-F0507-CR	9.6	14	192.9	80	24	14	10	13	16.3	8	8	4	14	12	45°
DAPS-240-...-R-F0507-CR	10	14	246.7	80	24	14	10	17	19.3	8	8	4	17	15	45°
DAPS-480-...-R-F0710-CR	10	14	298.4	80	24	16	14	19	24.3	8	8	4	22	19	45°

Ordering data			
Part No.	Type	Part No.	Type
Size 0015		Size 0120	
552869	DAPS-0015-090-R-F03-CR	552872	DAPS-0120-090-R-F0507-CR
Size 0030		Size 0240	
552870	DAPS-0030-090-R-F03-CR	552873	DAPS-0240-090-R-F0507-CR
Size 0060		Size 0480	
552871	DAPS-0060-090-R-F0305-CR	552874	DAPS-0480-090-R-F0710-CR

Quarter turn actuators DAPS CR, single-acting

Technical data

Function



Swivel angle

0 ... 90°

-T-

Size

0015 ... 0240

Pressure

15 ... 240 Nm



General technical data					
Size	0015	0030	0060	0120	0240
Pneumatic connection	G $\frac{1}{8}$				
Design	Scotch yoke system				
Mode of operation	Single-acting				
Mounting position	Any				
Position sensing	None				
Cushioning	No cushioning				
Swivel angle	[°] 90				
Closing direction	Closes to right				

Operating and environmental conditions					
Size	0015	0030	0060	0120	0240
Nominal operating pressure	[bar] 5.6				
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)				
Ambient temperature	[°C] -20 ... +80				
Corrosion resistance class CRC ¹⁾	3				
Connection to process valve as per standard	- ISO 5211				
Valve connection as per standard	- VDI/VDE 3845 (NAMUR)				

- 1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

ATEX	
ATEX category for gas	II 2G
Explosion ignition protection type for gas	c TX X
ATEX category for dust	II 2D
Explosion ignition protection type for dust	c TX X
Explosion-proof temperature rating	-20 °C ≤ Ta ≤ +60 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Quarter turn actuators DAPS CR, single-acting

Technical data

FESTO

Pressure ranges [bar]					
Type	Connection pressure	Operating pressure	Type	Connection pressure	Operating pressure
Size 0015			Size 0120		
DAPS-0015-090-RS1-F03-CR	2.8	2.8 ... 8.4	DAPS-0120-090-RS1-F0507-CR	2.8	2.8 ... 8.4
DAPS-0015-090-RS2-F03-CR	3.5	3.5 ... 8.4	DAPS-0120-090-RS2-F0507-CR	3.5	3.5 ... 8.4
DAPS-0015-090-RS3-F03-CR	4.2	4.2 ... 8.4	DAPS-0120-090-RS3-F0507-CR	4.2	4.2 ... 8.4
DAPS-0015-090-RS4-F03-CR	5.6	5.6 ... 8.4	DAPS-0120-090-RS4-F0507-CR	5.6	5.6 ... 8.4
Size 0030			Size 0240		
DAPS-0030-090-RS1-F0305-CR	2.8	2.8 ... 8.4	DAPS-0240-090-RS1-F0710-CR	2.8	2.8 ... 8.4
DAPS-0030-090-RS2-F0305-CR	3.5	3.5 ... 8.4	DAPS-0240-090-RS2-F0710-CR	3.5	3.5 ... 8.4
DAPS-0030-090-RS3-F0305-CR	4.2	4.2 ... 8.4	DAPS-0240-090-RS3-F0710-CR	4.2	4.2 ... 8.4
DAPS-0030-090-RS4-F0305-CR	5.6	5.6 ... 8.4	DAPS-0240-090-RS4-F0710-CR	5.6	5.6 ... 8.4
Size 0060					
DAPS-0060-090-RS1-F0507-CR	2.8	2.8 ... 8.4			
DAPS-0060-090-RS2-F0507-CR	3.5	3.5 ... 8.4			
DAPS-0060-090-RS3-F0507-CR	4.2	4.2 ... 8.4			
DAPS-0060-090-RS4-F0507-CR	5.6	5.6 ... 8.4			

Air consumption [l/cycle] at 6 bar			
Size		Size	
DAPS-0015	0.5	DAPS-0120	4.2
DAPS-0030	1	DAPS-0240	8.3
DAPS-0060	2		

Weight [g]			
Size		Size	
DAPS-0015	1,600	DAPS-0120	7,600
DAPS-0030	2,400	DAPS-0240	12,900
DAPS-0060	4,500		

Materials		
Quarter turn actuators		Material number
Housing	High-alloy stainless steel	1.4408
Cover	High-alloy stainless steel	1.4408
Shaft	High-alloy stainless steel	1.4301
External screws	High-alloy stainless steel	–
Seals	FPM, NBR, PUR	–
Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	–

Quarter turn actuators DAPS CR, 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-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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Quarter turn actuators DAPS CR, 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	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°

Quarter turn actuators DAPS CR, single-acting

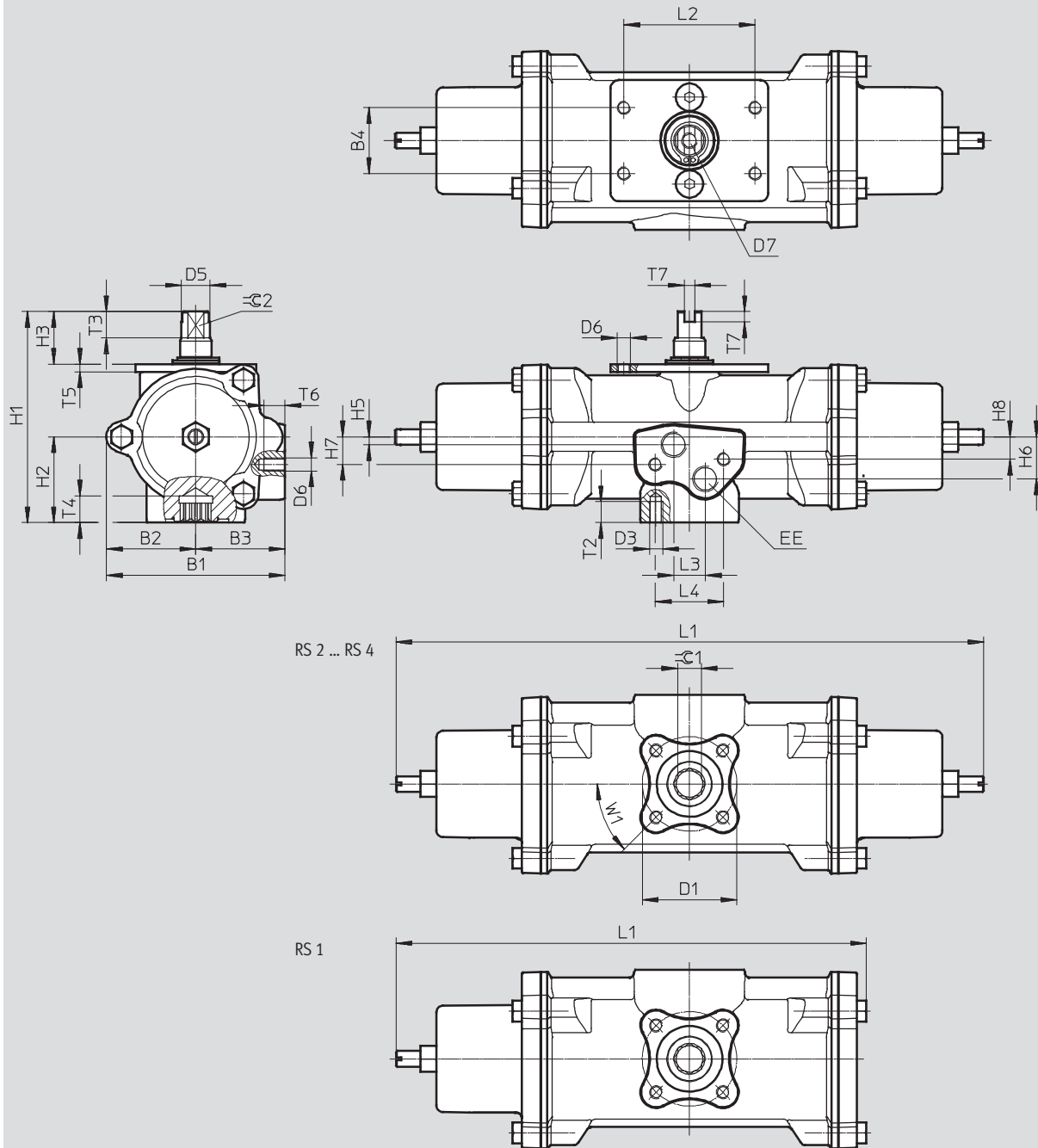
Technical data

FESTO

Dimensions

DAPS-0015-090-...-F03-CR

Download CAD Data → www.festo.com/us/cad



Size	B1	B2	B3	B4	D1 Ø	D3	D5 Ø	D6	D7	EE	H1	H2	H3	H5	H6	H7
DAPS-0015-090-RS-F03-CR	68.1	34.1	34	25	36	M5	10.9	M5	M6	G $\frac{3}{8}$	80.4	32.7	20	3	16	10.5

Size	H8	L1 ±2		L2	L3	L4	T2	T3	T4	T5	T6	T7	⌀ 1	⌀ 2	W1
		RS 1	RS 2 ... RS 4										H11	h11	
DAPS-0015-090-RS-F03-CR	8.5	179	224	50	12	26	8	10	10.2	3	8	4	9	9	45°

Quarter turn actuators DAPS CR, single-acting

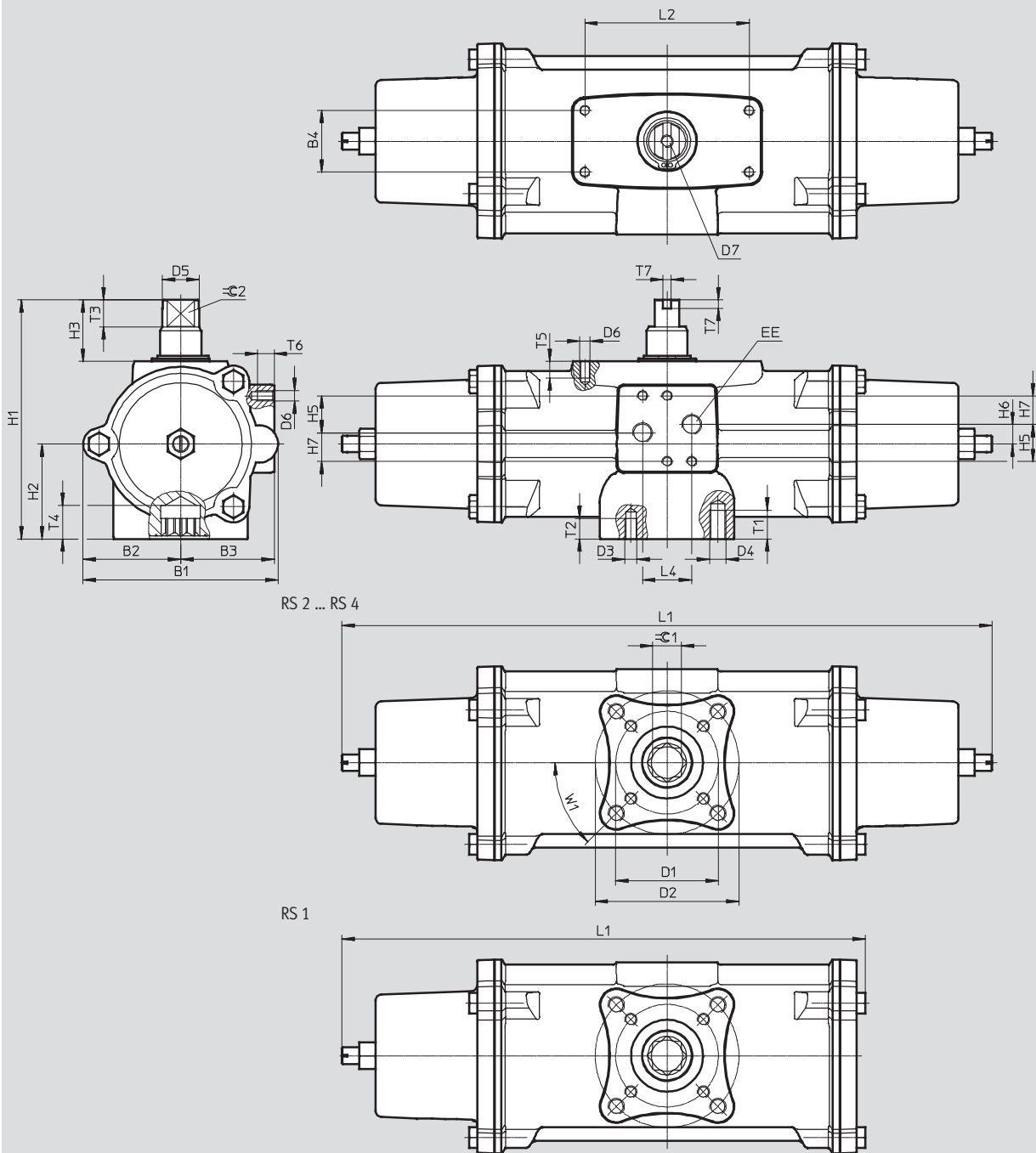
Technical data

FESTO

Dimensions

DAPS-...-090-...-CR

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



Quarter turn actuators DAPS CR, single-acting

Technical data

Size	B1	B2	B3	B4	D1 Ø	D2 Ø	D3	D4	D5 Ø	D6	D7	EE	H1	H2	H3	H5
DAPS-0030- ... -F0305-CR	80.3	41.1	39.2	25	36	50	M5	M6	14.5	M5	M6	G1/8	92.4	37.6	20	18
DAPS-0060- ... -F0507-CR	94.4	47	45.5	30	50	70	M6	M8	18	M5	M6	G1/8	116.4	46.2	30	18
DAPS-0120- ... -F0507-CR	117	60.2	54.5	30	50	70	M6	M8	22.5	M5	M6	G1/8	136.4	56.1	30	18
DAPS-0240- ... -F0710-CR	139.7	70.9	67	30	70	102	M8	M10	29	M5	M6	G1/8	160	67.9	30	18

Size	H6	H7	L1 ±2		L2	L4	T1	T2	T3	T4 ±0.4	T5	T6	T7	≈ 1	≈ 2	W1
			RS 1	RS 2 ... RS 4										H11	h11	
DAPS-0030- ... -F0305-CR	9.6	14	202.3	246.2	50	24	10	8	13	12.1	8	8	4	11	10	45°
DAPS-0060- ... -F0507-CR	9.5	14	254.7	316.5	80	24	14	10	13	16.3	8	8	4	14	12	45°
DAPS-0120- ... -F0507-CR	10	14	311.5	376.2	80	24	14	10	17	19.3	8	8	4	17	15	45°
DAPS-0240- ... -F0710-CR	10	14	381	464	80	24	16	14	19	24.3	8	8	4	22	19	45°

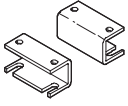
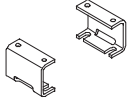
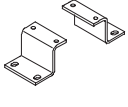
Ordering data	
Part No.	Type
Size 0015	
552875	DAPS-0015-090-RS1-F03-CR
552876	DAPS-0015-090-RS2-F03-CR
552877	DAPS-0015-090-RS3-F03-CR
552878	DAPS-0015-090-RS4-F03-CR
Size 0030	
552879	DAPS-0030-090-RS1-F0305-CR
552880	DAPS-0030-090-RS2-F0305-CR
552881	DAPS-0030-090-RS3-F0305-CR
552882	DAPS-0030-090-RS4-F0305-CR
Size 0060	
552883	DAPS-0060-090-RS1-F0507-CR
552884	DAPS-0060-090-RS2-F0507-CR
552885	DAPS-0060-090-RS3-F0507-CR
552886	DAPS-0060-090-RS4-F0507-CR

Part No.	Type
Size 0120	
552887	DAPS-0120-090-RS1-F0507-CR
552888	DAPS-0120-090-RS2-F0507-CR
552889	DAPS-0120-090-RS3-F0507-CR
552890	DAPS-0120-090-RS4-F0507-CR
Size 0240	
552891	DAPS-0240-090-RS1-F0710-CR
552892	DAPS-0240-090-RS2-F0710-CR
552893	DAPS-0240-090-RS3-F0710-CR
552894	DAPS-0240-090-RS4-F0710-CR

Quarter turn actuators DAPS

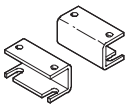
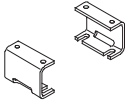
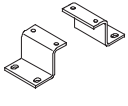
Accessories

FESTO

Ordering data – Adapter kits for mounting the sensor boxes SRBP, SRAP					
	Size	Dimensions [mm]	CRC ¹⁾	Part No.	Type
DAPS – Double-acting					
	DAPS-0015- ... -F03	20x30x80	3	568275	DASB-P1-HA-SB
	DAPS-0015- ... -F04				
	DAPS-0030- ... -F0305				
	DAPS-0030- ... -F04				
	DAPS-0060- ... -F04				
	DAPS-0060- ... -F0507				
	DAPS-0106- ... -F0507				
	DAPS-0180- ... -F0710	30x30x80		572418	DASB-P1-HB-SB
	DAPS-0240- ... -F0710				
	DAPS-0360- ... -F0710				
	DAPS-0480- ... -F1012				
	DAPS-0720- ... -F1012				
	DAPS-0960- ... -F12				
	DAPS-0960- ... -F14				
	DAPS-1440- ... -F12				
	DAPS-1440- ... -F14				
	DAPS-1920- ... -F14				
	DAPS-1920- ... -F1216				
	DAPS-2880- ... -F16	30x30x130		572419	DASB-P1-HC-SB
	DAPS-3840- ... -F16				
	DAPS-5760- ... -F25				
	DAPS-8000- ... -F25				

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

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

Ordering data – Adapter kits for mounting the sensor boxes SRBP, SRAP					
	Size	Dimensions [mm]	CRC ¹⁾	Part No.	Type
DAPS – Single-acting					
	DAPS-0015- ... -F0305	20x30x80	3	568275	DASB-P1-HA-SB
	DAPS-0015- ... -F04				
	DAPS-0030- ... -F04				
	DAPS-0030- ... -F0507				
	DAPS-0053- ... -F0507				
	DAPS-0090- ... -F0710	30x30x80		572418	DASB-P1-HB-SB
	DAPS-0120- ... -F0710				
	DAPS-0180- ... -F0710				
	DAPS-0240- ... -F1012				
	DAPS-0360- ... -F1012				
	DAPS-0480- ... -F12				
	DAPS-0480- ... -F14				
	DAPS-0720- ... -F12				
	DAPS-0720- ... -F14				
	DAPS-0960- ... -F14				
	DAPS-0960- ... -F1216				
	DAPS-1440- ... -F16	30x30x130		572419	DASB-P1-HC-SB
	DAPS-1920- ... -F16				
	DAPS-2880- ... -F16				
	DAPS-4000- ... -F25				

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

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

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