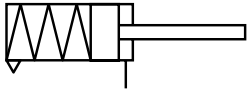
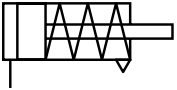
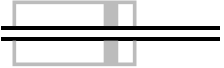


Compact cylinders DPCA

FESTO



Key features

At a glance	
• Compact design permits use in tight spaces • Double- and single-acting versions • Piston rod with male and female thread • With and without protection against rotation • With and without cushioning • Easy to mount with suitable mounting options	
System of units [] Metric	System of units [N] Imperial
Protection against rotation [Q] With protection against rotation	Running characteristics [L4] Additional piston guide
• Protection against rotation prevents the piston rod from turning during the movement • Application example: position-oriented feeding	• The piston guide is designed to absorb higher transverse loads
Stroke adjustment [E] Exiting/Front	Function [] Double-acting
• By adjusting the stroke, the piston rod's advanced end position can be precisely adjusted	 • The cylinder has two pneumatic connections which can be pressurised with compressed air one after the other • When the rear connection is pressurised with compressed air, the cylinder advances. For the cylinder to retract, the front connection is pressurised with compressed air
Function [P] Single-acting, pulling (piston rod advanced by spring force)	Function [S] Single-acting, pushing (piston rod retracted by spring force)
 • The cylinder has one pneumatic connection. The piston rod is advanced in its initial position • When the connection is pressurised with compressed air, the cylinder retracts. It is advanced by a spring	 • The cylinder has one pneumatic connection. The piston rod is retracted in its initial position • When the connection is pressurised with compressed air, the cylinder advances. It is retracted by a spring
Piston rod type [] At one end	Piston rod type [H] Through, hollow piston rod
 • The piston rod can be used for connection at one end of the cylinder	 • The piston rod can be used for connection at both ends of the cylinder • The piston rod is hollow inside, so it can be used to carry vacuum or compressed air • Identical forces in the forward and return stroke

Key features

Piston rod type

[T] Through piston rod



- The piston rod can be used for connection at both ends of the cylinder
- The piston rod has a female thread on the side of the end cap and a male thread on the other side
- Identical forces in the forward and return stroke

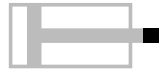
Piston rod thread type

[F] Female thread



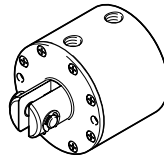
Piston rod thread type

[] Male thread



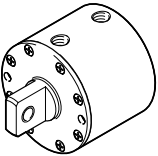
Type of mounting

[D] With swivel clevis



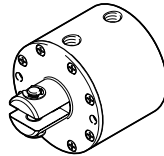
Type of mounting

[U] With swivelling rod eye



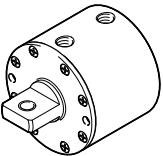
Type of mounting

[D90] With swivel clevis, rotated 90°



Type of mounting

[U90] With swivelling rod eye, rotated 90°



Cushioning

[P]/[P2]/[P3] Elastic cushioning ring/pads

- The drive is fitted with rubber-elastic end-position cushioning for greater absorption of impact energy.
- No adjustment required
- Saves time

Noise reduction

[SL]/[SL2]/[SL3] both sides/front/rear

- Noise can be reduced with the noise reduction feature

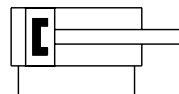
Wiper variant

[A1] Increased chemical resistance

- FKM seals ensure a longer service life, e.g. with the use of cooling lubricants

Position sensing

[A] For proximity switch



Type codes

001	Series	
DPCA	Pancake cylinder	

002	System of units	
	Metric	
N	Imperial	

003	Protection against rotation	
	None	
Q	With protection against rotation	

004	Running characteristics	
	Standard	
L4	Additional PTFE piston guide	

005	Piston diameter ["]	
1/2"	1/2"	
3/4"	3/4"	
1 1/8"	1 1/8"	
1 5/8"	1 5/8"	
2"	2"	
2 1/2"	2 1/2"	
3"	3"	
4"	4"	

006	Stroke ["]	
1/16"	1/16"	
1/8"	1/8"	
3/16"	3/16"	
1/4"	1/4"	
5/16"	5/16"	
3/8"	3/8"	
1/2"	1/2"	
5/8"	5/8"	
3/4"	3/4"	
13/16"	13/16"	
7/8"	7/8"	
1"	1"	
1 1/8"	1 1/8"	
1 1/4"	1 1/4"	
1 5/16"	1 5/16"	
1 3/8"	1 3/8"	
1 1/2"	1 1/2"	
1 5/8"	1 5/8"	
1 3/4"	1 3/4"	
1 13/16"	1 13/16"	
1 7/8"	1 7/8"	
2"	2"	
2 3/4"	2 3/4"	
2 13/16"	2 13/16"	
2 7/8"	2 7/8"	
3"	3"	
3 3/4"	3 3/4"	
3 13/16"	3 13/16"	
3 7/8"	3 7/8"	
4"	4"	

Type codes

007	Stroke adjustment	
	Without	
E	Advancing/front	

008	Function	
	Double-acting	
P	Single-acting, pulling	
S	Single-acting, pushing	

009	Piston rod type	
	At one end	
H	Through, hollow piston rod	
T	Through piston rod	

010	Piston rod thread type	
	Male thread	
F	Female thread	

011	Type of mounting	
	Standard	
U	With swivelling rod eye	
D	With swivel clevis	
D90	With swivel clevis, rotated 90°	
U90	With swivelling rod eye, rotated 90°	

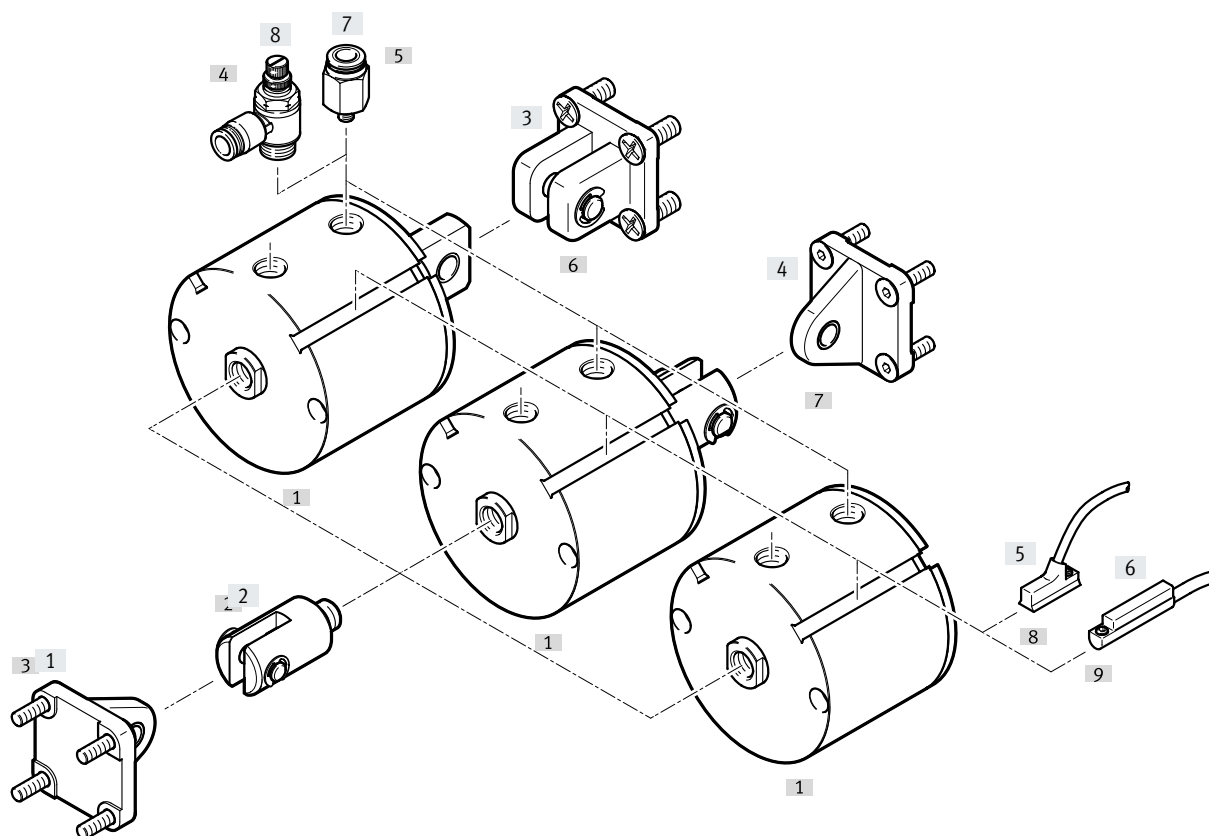
012	Cushioning	
	No cushioning	
P	Elastic cushioning rings/plates on both sides	
P2	Elastic cushioning rings/plates, front	
P3	Elastic cushioning rings/plates, rear	

013	Noise reduction	
	Without	
SL	Both sides	
SL2	Front	
SL3	Rear	

014	Position sensing	
	None	
A	For proximity sensor	

015	Scraper variant	
	None	
A1	Increased chemical resistance	

Peripherals overview

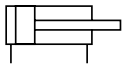


Accessories		Description	→ Page/Internet
[1]	Swivel flange DAMS-C4-...-C	For connection to swivel clevis DARC	160
[2]	Swivel clevis DARC-C4-...-M	Permits a swivelling movement in one plane	162
[3]	Swivel flange DAMS-C4-...-D	Counterpart for the swivelling rod eye on the cylinder	164
[4]	Swivel flange DAMS-C4-...-C	For connecting to compact cylinder DPCA	160
[5]	Proximity switch SDBF-FBS	For dovetail slot For piston $\varnothing 3/4 \dots 4$	165
[6]	Proximity switch SDBF-FAS	For round slot For piston $\varnothing 1/2$	165
[7]	Push-in fitting QB/QBM/QBML/QBL	For connecting tubing with standard O.D.	165
[8]	One-way flow control valve GRLA	For regulating speed	165

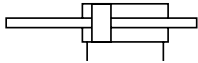
Datasheet

Function

DPCA



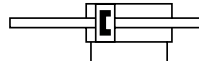
DPCA-...-T



DPCA-...-A



DPCA-...-T-...-A



-  - Diameter
1/2 ... 4 inch
-  - Stroke length
1/16 ... 4 inch



General technical data								
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4
Design	Piston							
	Piston rod							
	Cylinder barrel							
Operating mode	Double-acting							
Piston rod end	Male thread							
	Female thread							
Protection against rotation/guide	–	Piston guide pin						
Pneumatic connection	Double-acting							
[]	M5		G1/8					
[N]	10-32 UNF-2B		1/8 NPT					
Piston rod thread								
[]	8-32 UNC-2A	10-32 UNF-2A	5/16-24 UNF-2A	3/8-24 UNF-2A	1/2-20 UNF-2A		5/8-18 UNF-2A	
[F]	8-32 UNC-2B	10-32 UNF-2B	5/16-24 UNF-2B	3/8-24 UNF-2B	1/2-20 UNF-2B		5/8-18 UNF-2B	
Stroke	[in]	1/16 ... 4			1/8 ... 4			
Cushioning								
[P]	Elastic cushioning rings/plates at both ends							
[P2]	Elastic cushioning rings/plates, front							
[P3]	Elastic cushioning rings/plates, rear							
Position sensing	Via proximity switch							
Type of mounting								
	With through-hole							
	With accessories							
[U]	With swivelling rod eye on the end cap					–		
[D]	With swivel clevis on the end cap							
[U90]	With swivelling rod eye on the end cap rotated 90°					–		
[D90]	With swivel clevis on the end cap rotated 90°							
Mounting position	Any							

Datasheet

Operating and environmental conditions								
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4
Operating pressure [psi]	15 ... 150							
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]							
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)							
Ambient temperature1) [°F]	-25 ... +250							

1) Note operating range of proximity switches

Forces [lb] at 80 psi								
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4
Theoretical force, advancing	16	35.2	79.2	165.6	251.2	392.8	565.6	1005.6
Theoretical force, retracting	12	28.8	64	136	216	357.6	530.4	957.6

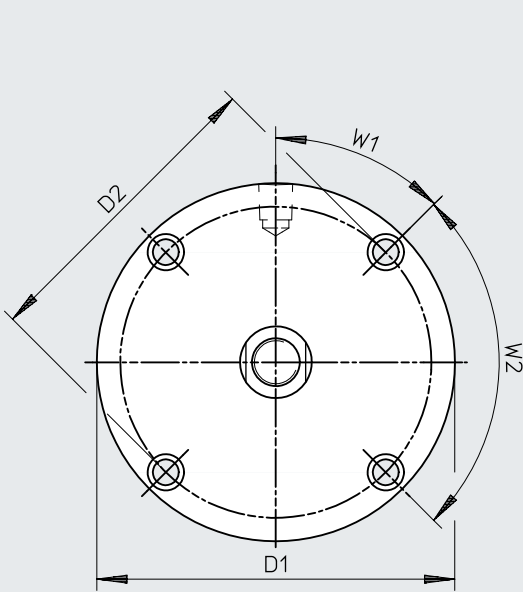
Weight [lb]								
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4
Product weight	0.08 ...	0.14 ...	0.28 ...	0.6 ...	0.89 ...	1.43 ...	1.89 ...	3.88 ...
	0.46	0.81	1.39	3.8	3.95	4.73	5.72	10.08

Materials	
Cover	Wrought aluminium alloy
Dynamic seals	NBR
	FPM
Piston rod	High-alloy steel
Cylinder barrel	Wrought aluminium alloy
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

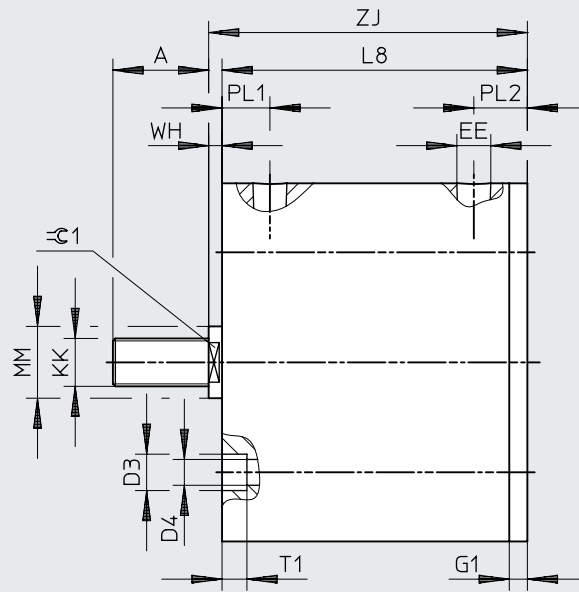
Datasheet

Dimensions – piston Ø 1/2

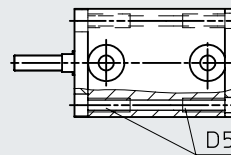
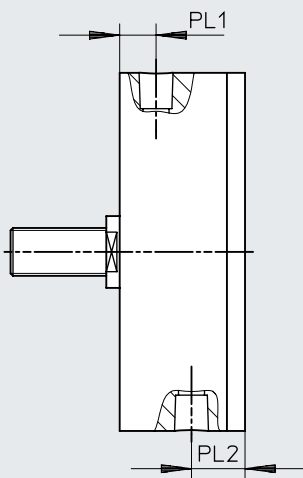
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DPCA-...-1/16" ... 3/8"
DPCA-...-L4-...-1/8" ... 1/4"



DPCA-...-1" ... 4"
DPCA-...-L4-...-1" ... 1"



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
1/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
1/4	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
3/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
1/2	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
5/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
3/4	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.13	M4	8-32 UNC-2A
1	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A
1 1/4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A
1 1/2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A
2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A
3	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A
4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.13	M4	8-32 UNC-2A

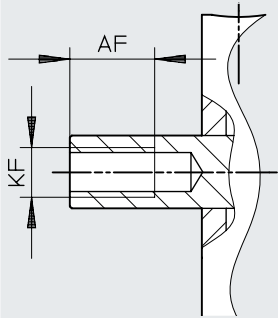
L ¹⁾	L8		MM ø	PL1	PL2	T1	W1	W2	WH	Z)		≈ 1
		[L4]									[L4]	
1/16	0.7	–	0.25	0.33	0.31	0.14	90°	–	0.13	0.83	–	0.19
1/8	0.7	0.83	0.25	0.33	0.31	0.14	90°	–	0.13	0.83	0.96	0.19
1/4	0.83	0.95	0.25	0.33	0.31	0.14	90°	–	0.13	0.96	1.08	0.19
3/8	0.95	1.08	0.25	0.33	0.31	0.14	90°	–	0.13	1.08	1.21	0.19
1/2	1.08	1.23	0.25	0.33	0.31	0.14	90°	–	0.13	1.21	1.36	0.19
5/8	1.23	1.36	0.25	0.33	0.31	0.14	90°	–	0.13	1.36	1.49	0.19
3/4	1.36	–	0.25	0.33	0.31	0.14	90°	–	0.13	1.49	–	0.19
1	1.7		0.25	0.33	0.31	–	90°	–	0.13	1.83		0.19
1 1/4	1.95		0.25	0.33	0.31	–	90°	–	0.13	2.08		0.19
1 1/2	2.2		0.25	0.33	0.31	–	90°	–	0.13	2.33		0.19
2	2.83		0.25	0.42	0.31	–	90°	–	0.13	2.96		0.19
3	3.83		0.25	0.42	0.31	–	90°	–	0.13	3.96		0.19
4	4.83		0.25	0.42	0.31	–	90°	–	0.13	4.96		0.19

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$ Download CAD data → www.festo.com

[F] Female thread



L ¹⁾	AF	AF	KF	
		[L4]		[N]
1/16	0.25	–	M4	8-32 UNC-2B
1/8	0.25	0.25	M4	8-32 UNC-2B
1/4	0.25	0.38	M4	8-32 UNC-2B
3/8	0.38	0.38	M4	8-32 UNC-2B
1/2	0.38	0.38	M4	8-32 UNC-2B
5/8	0.38	0.38	M4	8-32 UNC-2B
3/4	0.38	–	M4	8-32 UNC-2B
1	0.38	0.38	M4	8-32 UNC-2B
1 1/4	0.38	0.38	M4	8-32 UNC-2B
1 1/2	0.38	0.38	M4	8-32 UNC-2B
2	0.38	0.38	M4	8-32 UNC-2B
3	0.38	0.38	M4	8-32 UNC-2B
4	0.38	0.38	M4	8-32 UNC-2B

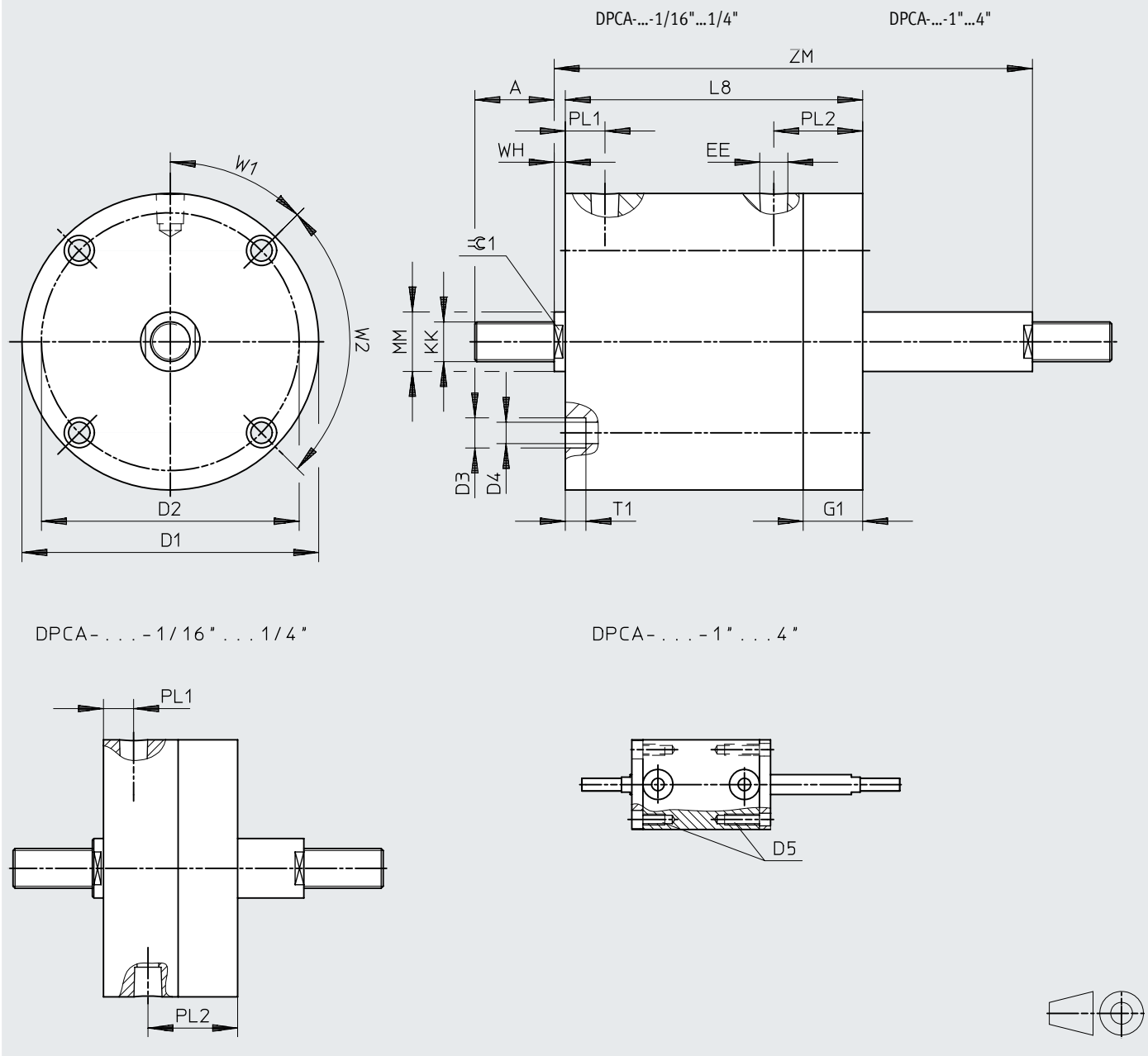
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$

Download CAD data → www.festo.com

[T] Through piston rod



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/4	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
3/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/2	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
5/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
3/4	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
1 1/4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
1 1/2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
3	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A

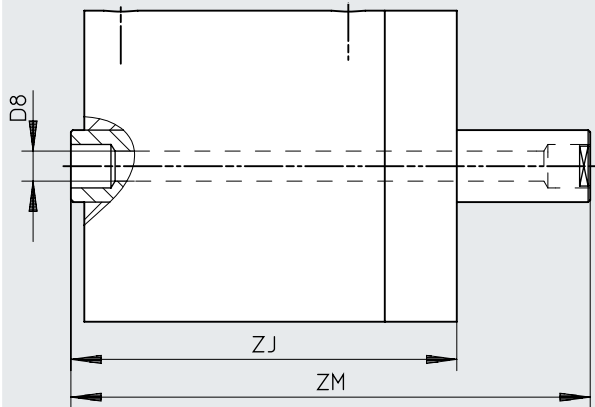
L ¹⁾	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/16	0.87	0.25	0.33	0.33	0.14	90°	–	0.13	1.1925	0.19
1/8	0.87	0.25	0.33	0.33	0.14	90°	–	0.13	1.255	0.19
1/4	1	0.25	0.33	0.33	0.14	90°	–	0.13	1.51	0.19
3/8	1.12	0.25	0.33	0.33	0.14	90°	–	0.13	1.755	0.19
1/2	1.25	0.25	0.33	0.33	0.14	90°	–	0.13	2.01	0.19
5/8	1.37	0.25	0.33	0.33	0.14	90°	–	0.13	2.255	0.19
3/4	1.5	0.25	0.33	0.33	0.14	90°	–	0.13	2.51	0.19
1	1.75	0.25	0.33	0.33	–	90°	–	0.13	3.01	0.19
1 1/4	2	0.25	0.33	0.33	–	90°	–	0.13	3.51	0.19
1 1/2	2.25	0.25	0.33	0.33	–	90°	–	0.13	4.01	0.19
2	2.75	0.25	0.33	0.33	–	90°	–	0.13	5.01	0.19
3	3.75	0.25	0.33	0.33	–	90°	–	0.13	7.01	0.19
4	4.75	0.25	0.33	0.33	–	90°	–	0.13	9.01	0.19

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing$ 1/2 Download CAD data → www.festo.com

[H] Through, hollow piston rod



L ¹⁾	D8 ø	ZJ	ZM
1/16	1/16	1	1.925
1/8	1/16	1	1.255
1/4	1/16	1.13	1.51
3/8	1/16	1.25	1.755
1/2	1/16	1.38	2.01
5/8	1/16	1.5	2.255
3/4	1/16	1.63	2.51
1	1/16	1.88	3.01
1 1/4	1/16	2.13	3.51
1 1/2	1/16	2.38	4.01
2	1/16	2.88	5.01
3	1/16	3.88	7.01
4	1/16	4.88	9.01

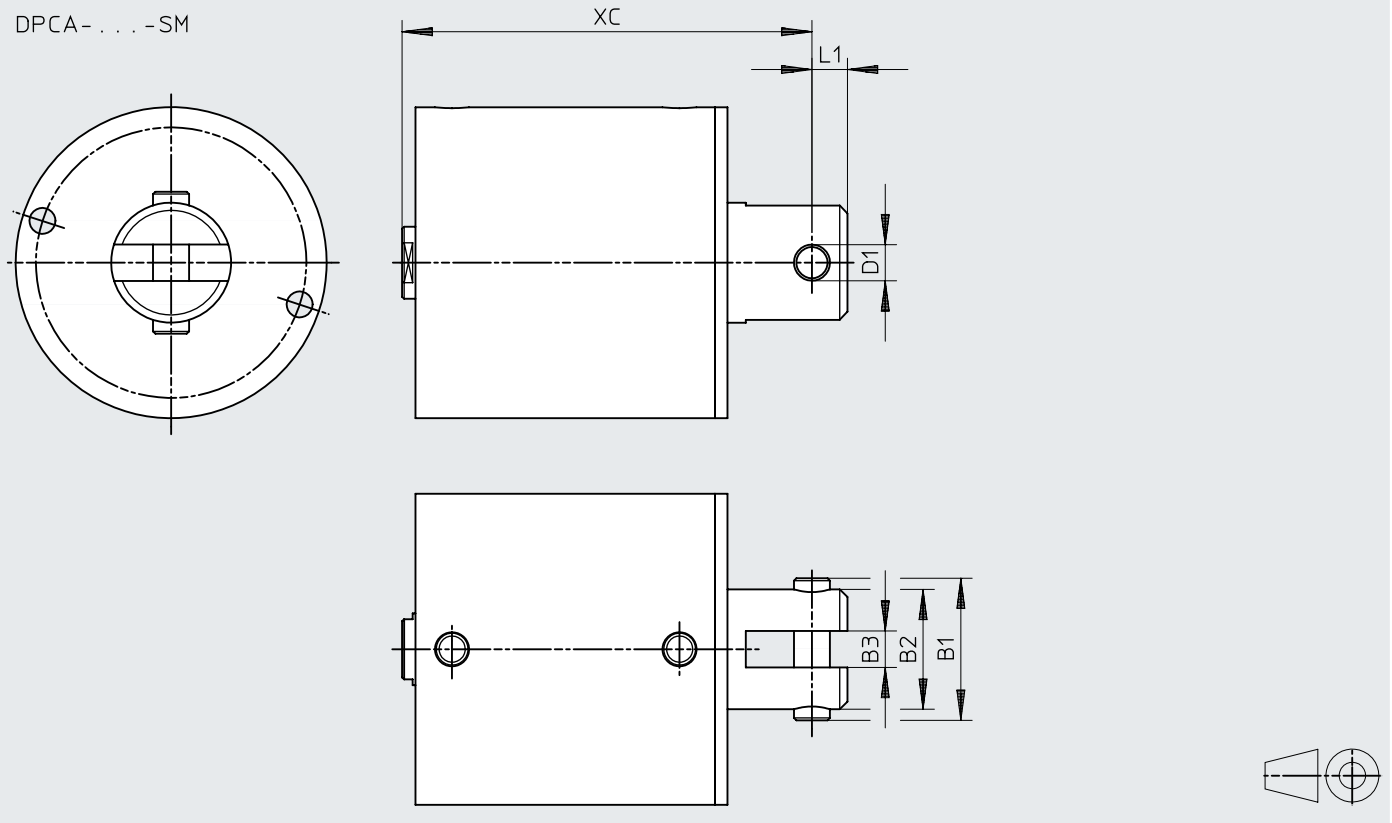
Datasheet

Dimensions – piston $\varnothing 1/2$ Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA-...-SM

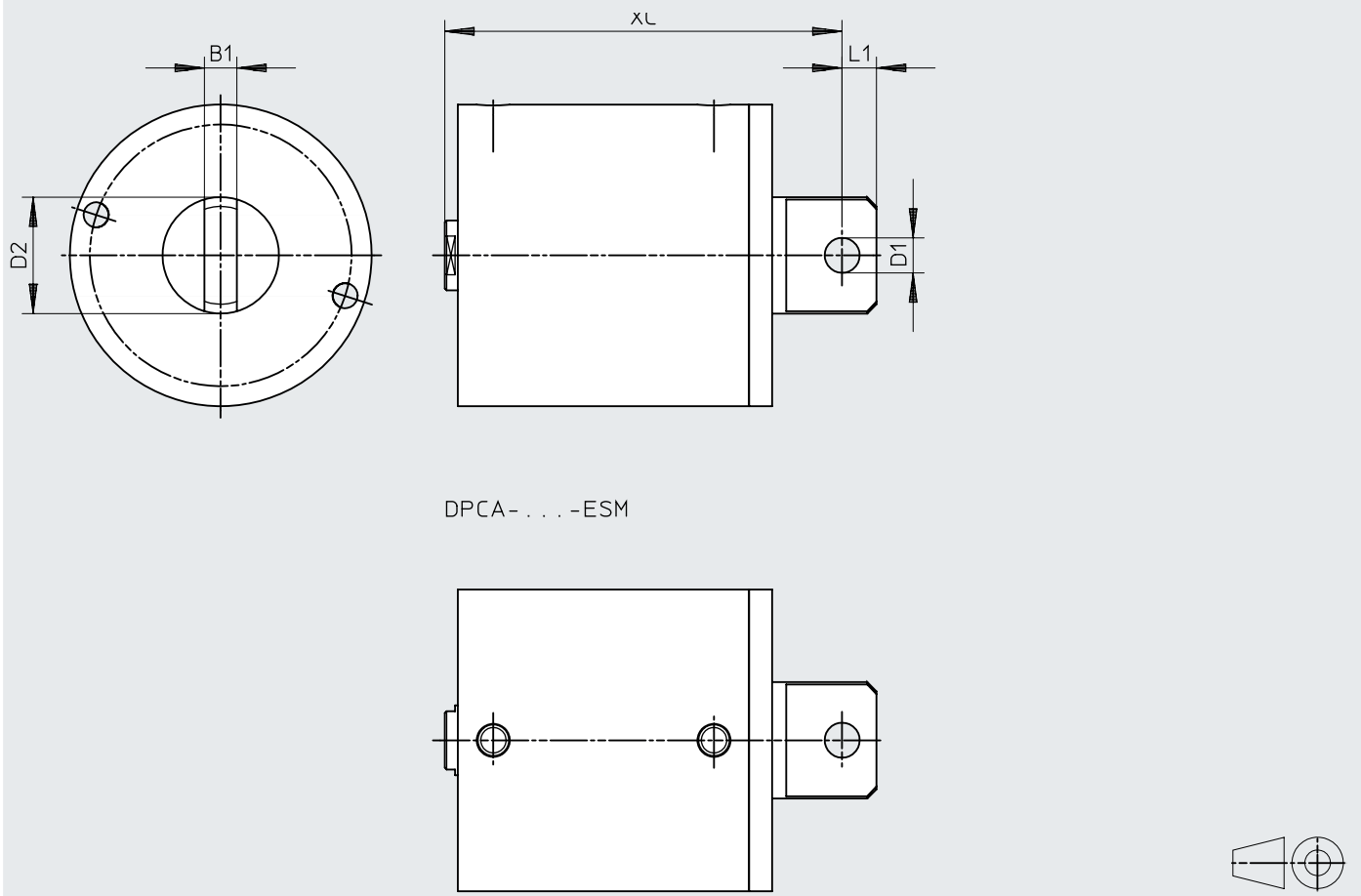


L ¹⁾	B1	B2	B3	D1 Ø	D2 Ø	L1	XC	
								[L4]
1/16	0.83	0.63	0.25	0.25	0.63	0.25	1.27	–
1/8	0.83	0.63	0.25	0.25	0.63	0.25	1.27	1.4
1/4	0.83	0.63	0.25	0.25	0.63	0.25	1.4	1.52
3/8	0.83	0.63	0.25	0.25	0.63	0.25	1.52	1.65
1/2	0.83	0.63	0.25	0.25	0.63	0.25	1.65	1.8
5/8	0.83	0.63	0.25	0.25	0.63	0.25	1.8	1.93
3/4	0.83	0.63	0.25	0.25	0.63	0.25	1.93	–
1	0.83	0.63	0.25	0.25	0.63	0.25	2.27	
1 1/4	0.83	0.63	0.25	0.25	0.63	0.25	2.52	
1 1/2	0.83	0.63	0.25	0.25	0.63	0.25	2.77	
2	0.83	0.63	0.25	0.25	0.63	0.25	3.4	
3	0.83	0.63	0.25	0.25	0.63	0.25	4.4	
4	0.83	0.63	0.25	0.25	0.63	0.25	5.4	

1) L = Stroke

Datasheet

- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



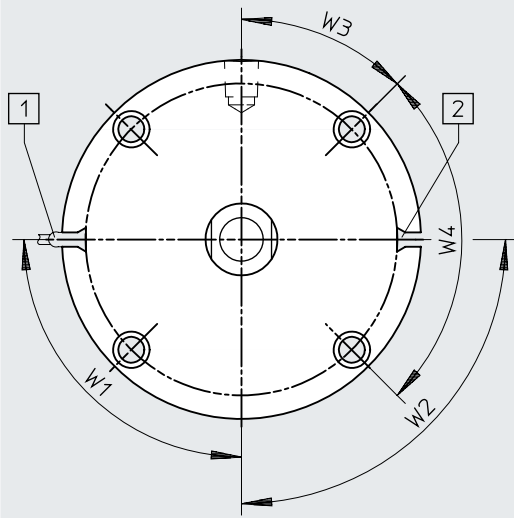
L ¹⁾	B1	B2	B3	D1 ø	D2 ø	L1	XC	
								[L4]
1/16	0.83	0.63	0.25	0.251	0.63	0.25	1.27	–
1/8	0.83	0.63	0.25	0.251	0.63	0.25	1.27	1.4
1/4	0.83	0.63	0.25	0.251	0.63	0.25	1.4	1.52
3/8	0.83	0.63	0.25	0.251	0.63	0.25	1.52	1.65
1/2	0.83	0.63	0.25	0.251	0.63	0.25	1.65	1.8
5/8	0.83	0.63	0.25	0.251	0.63	0.25	1.8	1.93
3/4	0.83	0.63	0.25	0.251	0.63	0.25	1.93	–
1	0.83	0.63	0.25	0.251	0.63	0.25	2.27	
1 1/4	0.83	0.63	0.25	0.251	0.63	0.25	2.52	
1 1/2	0.83	0.63	0.25	0.251	0.63	0.25	2.77	
2	0.83	0.63	0.25	0.251	0.63	0.25	3.4	
3	0.83	0.63	0.25	0.251	0.63	0.25	4.4	
4	0.83	0.63	0.25	0.251	0.63	0.25	5.4	

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$ Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹⁾	2)	W1	W2	W3	W4
1/4	2	60°	60°	90°	–
3/8	2	60°	60°	90°	–
1/2	2	60°	60°	90°	–
5/8	2	60°	60°	90°	–
3/4	2	60°	60°	90°	–
1	2	60°	60°	90°	–
1 1/4	2	60°	60°	90°	–
1 1/2	2	60°	60°	90°	–
2	1	60°	–	90°	–
3	1	60°	–	90°	–
4	1	60°	–	90°	–

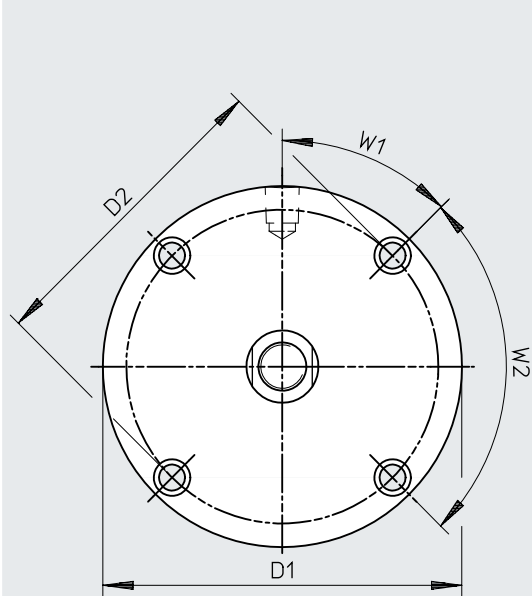
1) L = Stroke

2) Sensor slot number

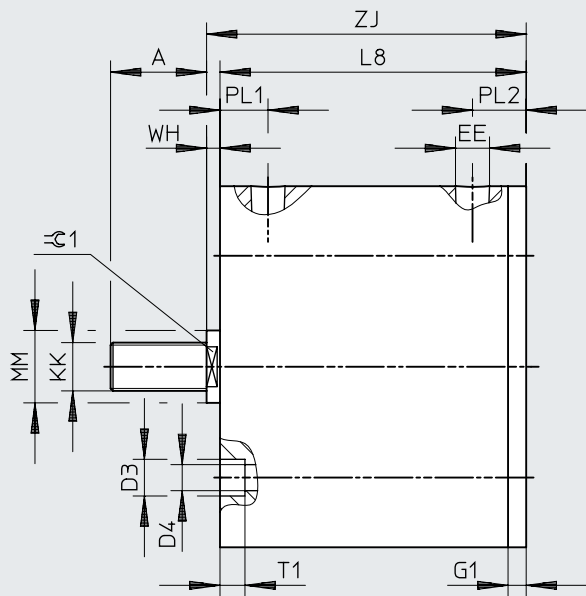
Datasheet

Dimensions – piston Ø 3/4

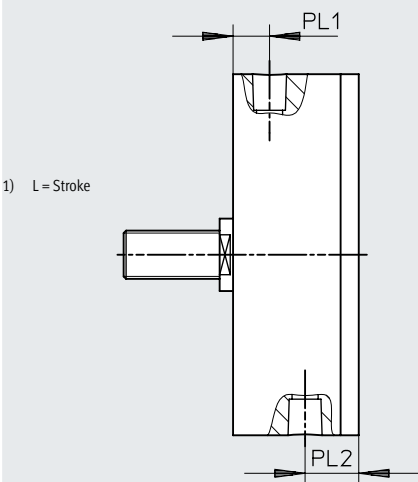
Download CAD data → www.festo.com



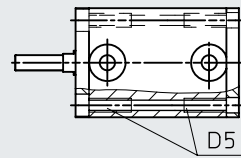
DPCA-...-1/16" ... 3/8"
DPCA-...-L4-...-1/8" ... 1/4"



DPCA-...-1" ... 4"
DPCA-...-L4-...-1" ... 1"



1) L = Stroke



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/8	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/4	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
3/8	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/2	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
5/8	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
3/4	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.13	M5	10-32 UNF-2A
1	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
1 1/4	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
1 1/2	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
2	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
3	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
4	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A

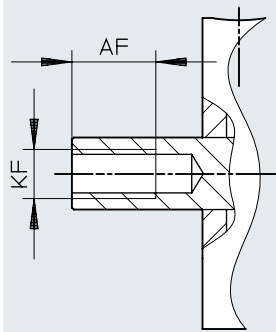
L ¹⁾	L8				MM ø	PL1	PL2	T1	W1	W2	WH	ZJ				±0.1
		[L4]	[Q]	[Q-L4]									[L4]	[Q]	[Q-L4]	
1/16	0.7	–	–	–	0.31	0.33	0.31	0.14	90°	–	0.13	0.83	–	–	–	0.25
1/8	0.7	0.83	0.83	0.83	0.31	0.33	0.31	0.14	90°	–	0.13	0.83	0.96	0.96	0.96	0.25
1/4	0.83	0.95	0.95	0.95	0.31	0.33	0.31	0.14	90°	–	0.13	0.96	1.08	1.08	1.08	0.25
3/8	0.95	1.08	1.08	1.08	0.31	0.33	0.31	0.14	90°	–	0.13	1.08	1.21	1.21	1.21	0.25
1/2	1.08	1.23	1.23	1.23	0.31	0.33	0.31	0.14	90°	–	0.13	1.21	1.36	1.36	1.36	0.25
5/8	1.23	1.36	1.36	1.36	0.31	0.33	0.31	0.14	90°	–	0.13	1.36	1.49	1.49	1.49	0.25
3/4	1.36	–	–	–	0.31	0.33	0.31	0.14	90°	–	0.13	1.49	–	–	–	0.25
1	1.7				0.31	0.33	0.31	–	90°	–	0.13	1.83				0.25
1 1/4	1.95				0.31	0.33	0.31	–	90°	–	0.13	2.08				0.25
1 1/2	2.2				0.31	0.33	0.31	–	90°	–	0.13	2.33				0.25
2	2.83				0.31	0.42	0.31	–	90°	–	0.13	2.96				0.25
3	3.83				0.31	0.42	0.31	–	90°	–	0.13	3.96				0.25
4	4.83				0.31	0.42	0.31	–	90°	–	0.13	4.96				0.25

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$ Download CAD data → www.festo.com

[F] Female thread



L ¹⁾	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/16	0.25	–	–	–	M5	10-32 UNF-2B
1/8	0.25	0.25	0.25	0.25	M5	10-32 UNF-2B
1/4	0.25	0.38	0.38	0.38	M5	10-32 UNF-2B
3/8	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
1/2	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
5/8	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
3/4	0.38	–	–	–	M5	10-32 UNF-2B
1	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
1 1/4	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
1 1/2	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
2	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
3	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B
4	0.38	0.38	0.38	0.38	M5	10-32 UNF-2B

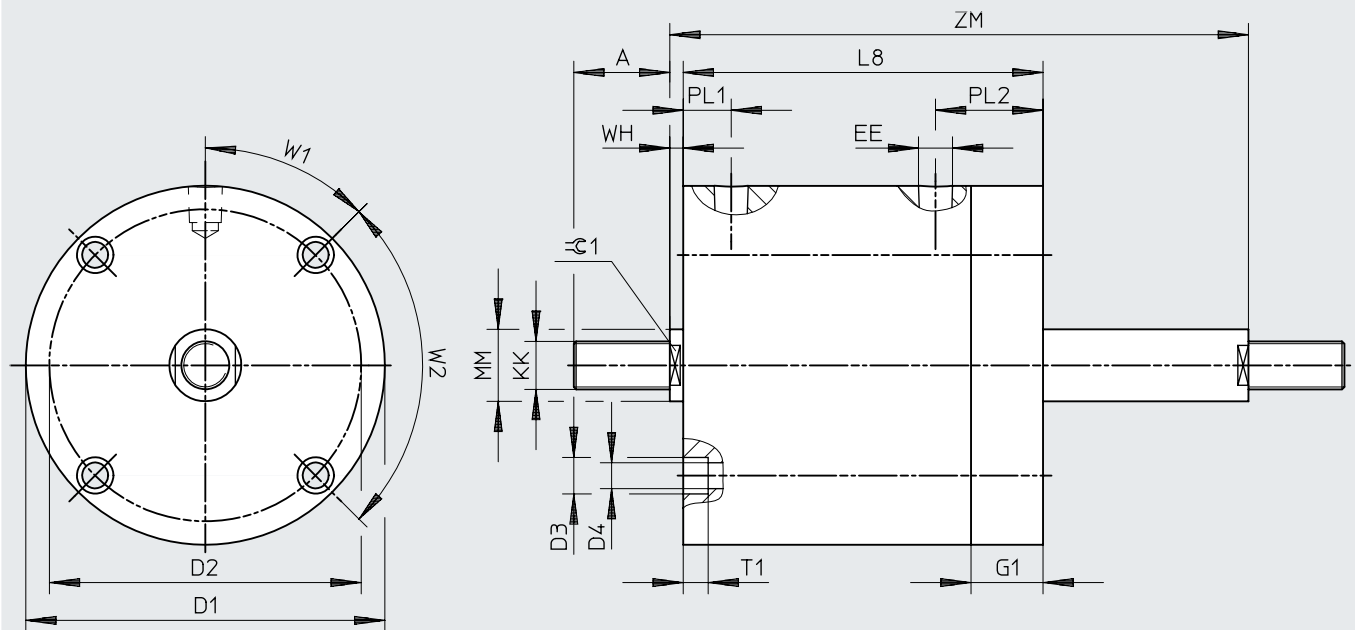
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$

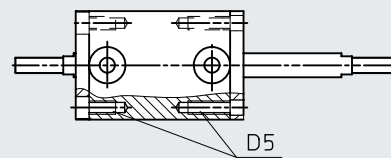
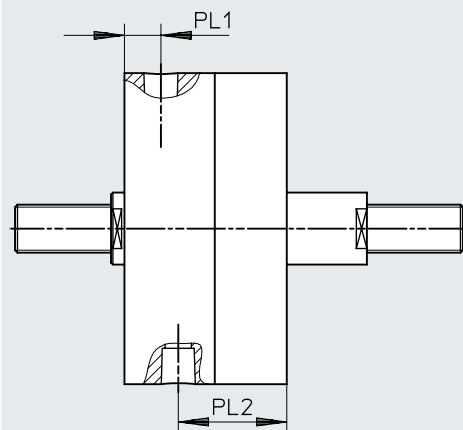
Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/16" ... 1/4"

DPCA-...-1" ... 4"



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø		D4 ø		D5		EE		G1	KK	
					[Q]		[Q]		[Q]		[N]			[N]
1/16	0.5	1.5	1.19	0.23	–	0.14	–	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/8	0.5	1.5	1.19	0.23	0.23	0.14	0.14	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/4	0.5	1.5	1.19	0.23	0.23	0.14	0.14	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
3/8	0.5	1.5	1.19	0.23	0.23	0.14	0.14	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/2	0.5	1.5	1.19	0.23	0.23	0.14	0.14	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
5/8	0.5	1.5	1.19	0.23	0.23	0.14	0.14	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
3/4	0.5	1.5	1.19	0.23	–	0.14	–	–	–	M5	10-32	0.14	M5	10-32 UNF-2A
7/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A
1 1/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1 1/4	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A
1 3/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1 1/2	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A
1 7/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
2	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A
2 7/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
3	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A
3 7/8	0.5	1.5	1.19	–	–	–	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
4	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.14	M5	10-32 UNF-2A

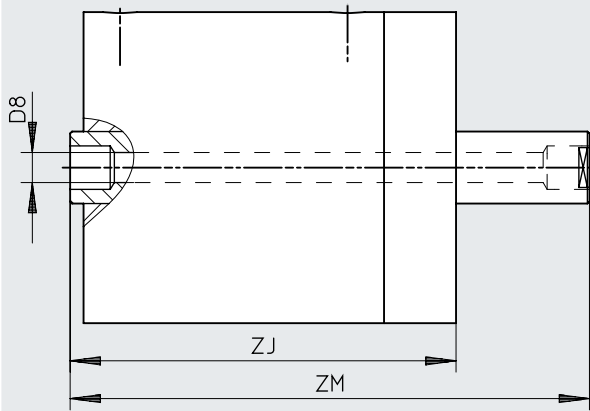
L ¹⁾	L8		MM ø	PL1	PL2	T1		W1	W2	WH	ZM		≈ 1
		[Q]					[Q]					[Q]	
1/16	0.87	–	0.31	0.33	0.33	0.14	–	90°	–	0.13	1.1925	–	0.25
1/8	0.87	1	0.31	0.33	0.33	0.14	0.14	90°	–	0.13	1.255	1.385	0.25
1/4	1	1.12	0.31	0.33	0.33	0.14	0.14	90°	–	0.13	1.51	1.63	0.25
3/8	1.12	1.25	0.31	0.33	0.33	0.14	0.14	90°	–	0.13	1.755	1.885	0.25
1/2	1.25	1.37	0.31	0.33	0.33	0.14	0.14	90°	–	0.13	2.01	2.13	0.25
5/8	1.37	1.5	0.31	0.33	0.33	0.14	0.14	90°	–	0.13	2.255	2.385	0.25
3/4	1.5	–	0.31	0.33	0.33	0.14	–	90°	–	0.13	2.51	–	0.25
7/8	–	1.75	0.31	0.33	0.33	–	–	90°	–	0.13	–	2.885	0.25
1	1.75	–	0.31	0.33	0.33	–	–	90°	–	0.13	3.01	–	0.25
1 1/8	–	2	0.31	0.33	0.33	–	–	90°	–	0.13	–	3.385	0.25
1 1/4	2	–	0.31	0.33	0.33	–	–	90°	–	0.13	3.51	–	0.25
1 3/8	–	2.25	0.31	0.33	0.33	–	–	90°	–	0.13	–	3.885	0.25
1 1/2	2.25	–	0.31	0.33	0.33	–	–	90°	–	0.13	4.01	–	0.25
1 7/8	–	2.75	0.31	0.33	0.33	–	–	90°	–	0.13	–	4.885	0.25
2	2.75	–	0.31	0.33	0.33	–	–	90°	–	0.13	5.01	–	0.25
2 7/8	–	3.75	0.31	0.33	0.33	–	–	90°	–	0.13	–	6.885	0.25
3	3.75	–	0.31	0.33	0.33	–	–	90°	–	0.13	7.01	–	0.25
3 7/8	–	4.75	0.31	0.33	0.33	–	–	90°	–	0.13	–	8.885	0.25
4	4.75	–	0.31	0.33	0.33	–	–	90°	–	0.13	9.01	–	0.25

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



L ¹⁾	D8 ø	ZJ		ZM	
			[Q]		[Q]
1/16	1/16	1	–	1.1925	–
1/8	1/16	1	1.13	1.255	1.385
1/4	1/16	1.13	1.25	1.51	1.63
3/8	1/16	1.25	1.38	1.755	1.885
1/2	1/16	1.38	1.5	2.01	2.13
5/8	1/16	1.5	1.63	2.255	2.385
3/4	1/16	1.63	–	2.51	–
7/8	1/16	–	1.88	–	2.885
1	1/16	1.88	–	3.01	–
1 1/8	1/16	–	2.13	–	3.385
1 1/4	1/16	2.13	–	3.51	–
1 3/8	1/16	–	2.38	–	3.885
1 1/2	1/16	2.38	–	4.01	–
1 7/8	1/16	–	2.88	–	4.885
2	1/16	2.88	–	5.01	–
2 7/8	1/16	–	3.88	–	6.885
3	1/16	3.88	–	7.01	–
3 7/8	1/16	–	4.88	–	8.885
4	1/16	4.88	–	9.01	–

1) L = Stroke

Datasheet

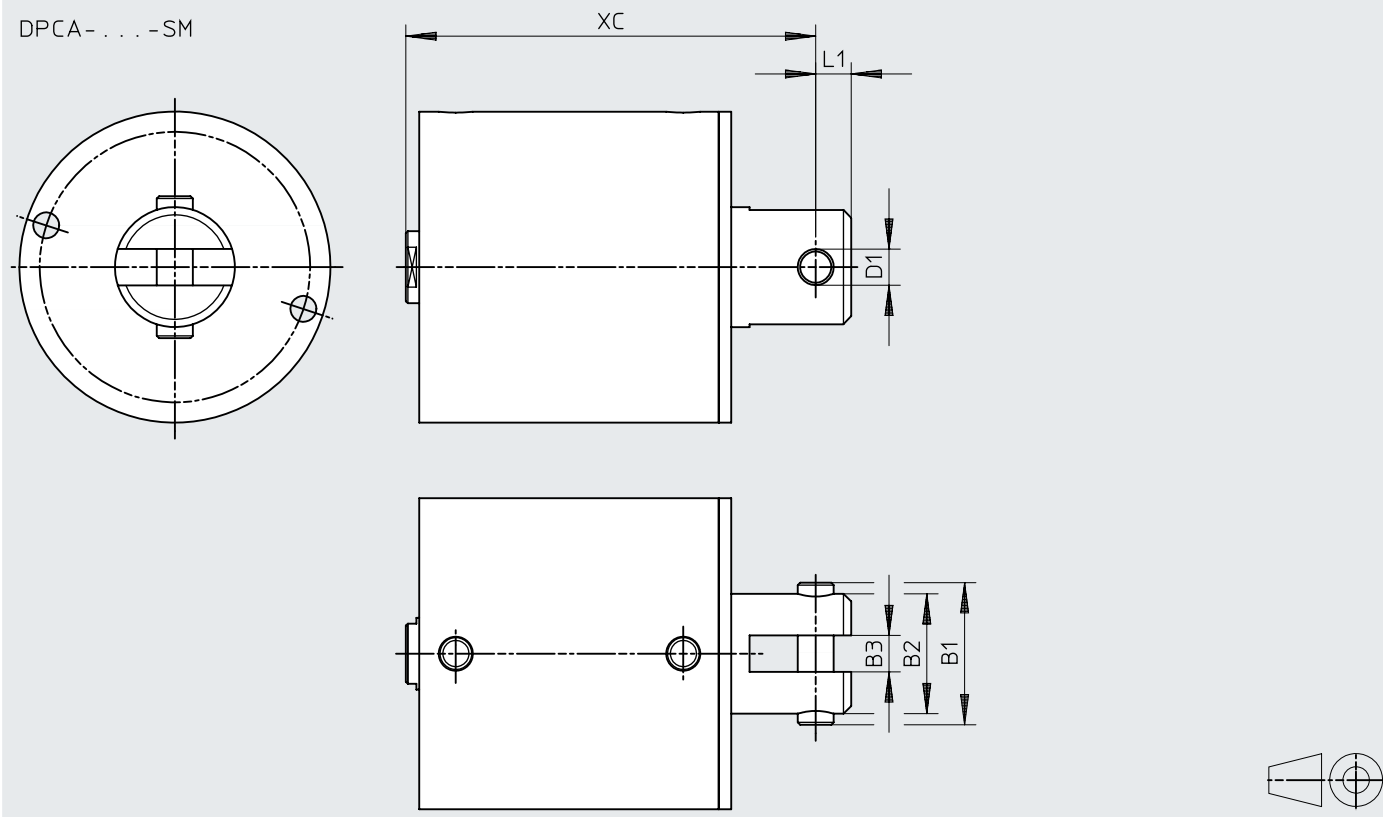
Dimensions – piston $\varnothing 3/4$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA – . . . – SM



L ¹⁾	B1	B2	B3	D1 ø	D2 ø	L1	XC	
								[Q/L4]
1/16	0.83	0.63	0.25	0.25	0.63	0.25	1.27	–
1/8	0.83	0.63	0.25	0.25	0.63	0.25	1.27	1.4
1/4	0.83	0.63	0.25	0.25	0.63	0.25	1.4	1.52
3/8	0.83	0.63	0.25	0.25	0.63	0.25	1.52	1.65
1/2	0.83	0.63	0.25	0.25	0.63	0.25	1.65	1.8
5/8	0.83	0.63	0.25	0.25	0.63	0.25	1.8	1.93
3/4	0.83	0.63	0.25	0.25	0.63	0.25	1.93	–
1	0.83	0.63	0.25	0.25	0.63	0.25	2.27	
1 1/4	0.83	0.63	0.25	0.25	0.63	0.25	2.52	
1 1/2	0.83	0.63	0.25	0.25	0.63	0.25	2.77	
2	0.83	0.63	0.25	0.25	0.63	0.25	3.4	
3	0.83	0.63	0.25	0.25	0.63	0.25	4.4	
4	0.83	0.63	0.25	0.25	0.63	0.25	5.4	

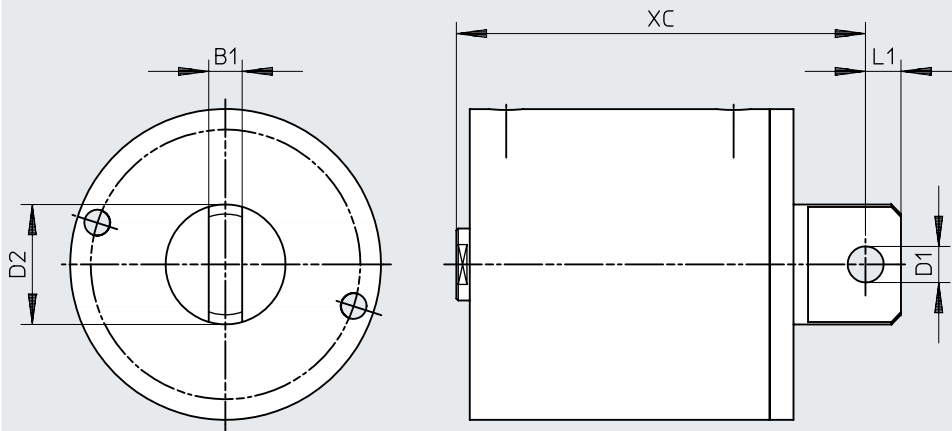
1) L = Stroke

Datasheet

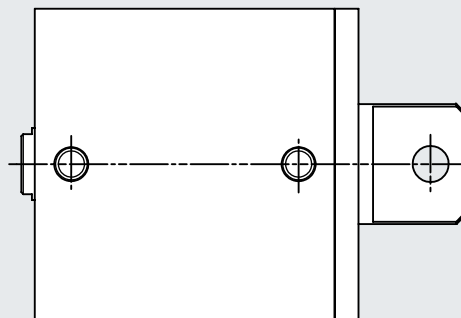
Dimensions – piston $\varnothing 3/4$ Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-ESM



L ¹⁾	B1	B2	B3	D1 ø	D2 ø	L1	XC	
							[Q/L4]	
1/16	0.23	0.63	0.25	0.251	0.63	0.25	1.27	–
1/8	0.23	0.63	0.25	0.251	0.63	0.25	1.27	1.4
1/4	0.23	0.63	0.25	0.251	0.63	0.25	1.4	1.52
3/8	0.23	0.63	0.25	0.251	0.63	0.25	1.52	1.65
1/2	0.23	0.63	0.25	0.251	0.63	0.25	1.65	1.8
5/8	0.23	0.63	0.25	0.251	0.63	0.25	1.8	1.93
3/4	0.23	0.63	0.25	0.251	0.63	0.25	1.93	–
1	0.23	0.63	0.25	0.251	0.63	0.25	2.27	
1 1/4	0.23	0.63	0.25	0.251	0.63	0.25	2.52	
1 1/2	0.23	0.63	0.25	0.251	0.63	0.25	2.77	
2	0.23	0.63	0.25	0.251	0.63	0.25	3.4	
3	0.23	0.63	0.25	0.251	0.63	0.25	4.4	
4	0.23	0.63	0.25	0.251	0.63	0.25	5.4	

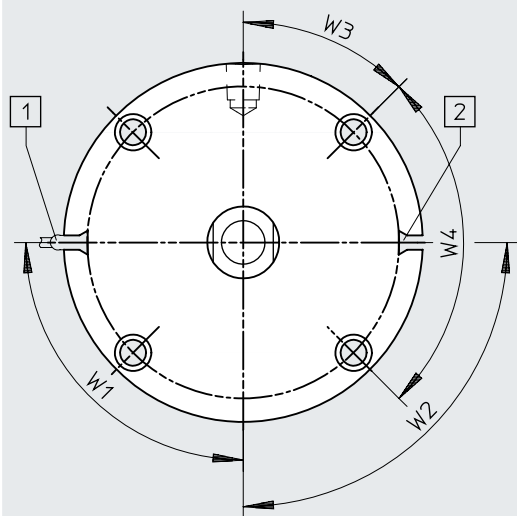
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$

Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹⁾	2)	W1	W2	W3	W4
1/4	2	65°	65°	90°	–
3/8	2	65°	65°	90°	–
1/2	2	65°	65°	90°	–
5/8	2	65°	65°	90°	–
3/4	2	65°	65°	90°	–
1	2	65°	65°	90°	–
1 1/4	2	65°	65°	90°	–
1 1/2	2	65°	65°	90°	–
2	1	65°	–	90°	–
3	1	65°	–	90°	–
4	1	65°	–	90°	–

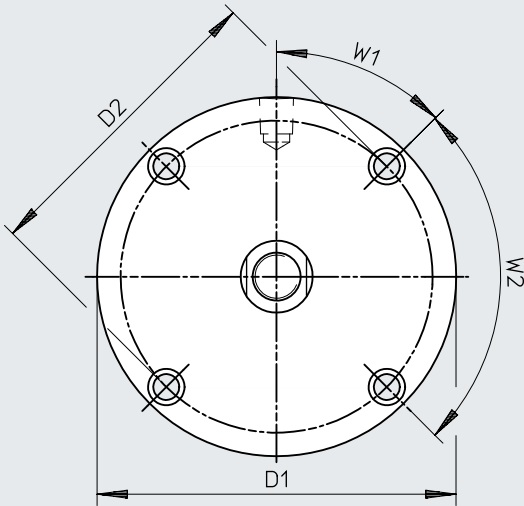
1) L = Stroke

2) Sensor slot number

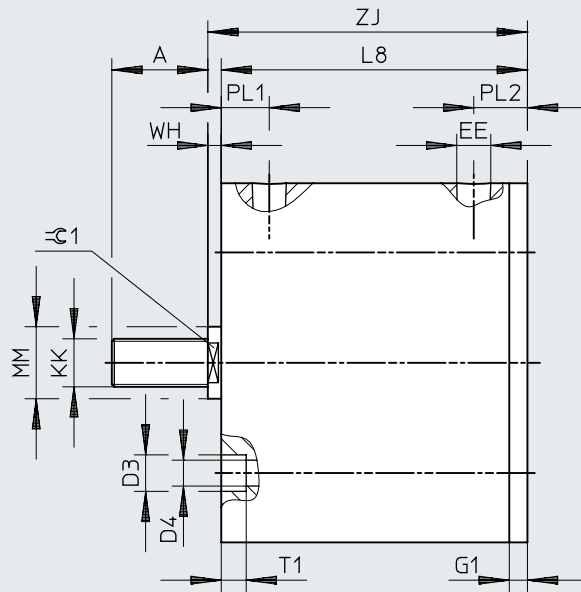
Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ "

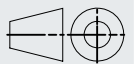
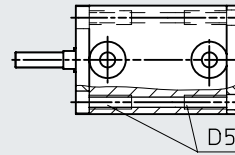
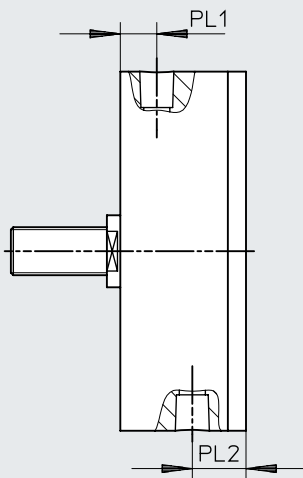
Download CAD data → www.festo.com



DPCA-...-1/16" ... 3/8"
DPCA-...-L4-...-1/8" ... 1/4"



DPCA-...-1" ... 4"
DPCA-...-L4-...-1" ... 1"



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
3/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
3/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
5/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
7/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 3/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 5/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
1 7/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
2 7/8	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
3	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
3 7/8	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A
4	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	M8	5/16-24 UNF-2A

L ¹⁾	L8				MM ø	PL1				PL2			
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		[L4]	[Q]	[Q-L4]
1/16	–	0.88	–	0.88	0.5	–	0.31	–	0.31	–	0.57	–	0.57
1/8	0.88	0.88	0.88	0.88	0.5	0.31	0.31	0.31	0.31	0.57	0.57	0.57	0.57
3/16	0.88	–	0.88	–	0.5	0.31	–	0.31	–	0.57	–	0.57	–
1/4	0.88	–	0.88	–	0.5	0.31	–	0.31	–	0.57	–	0.57	–
3/8	–	1.19	–	1.19	0.5	–	0.53	–	0.53	–	0.66	–	0.66
1/2	1.19	–	1.19	–	0.5	0.53	–	0.53	–	0.66	–	0.66	–
5/8	–	1.63	–	1.63	0.5	–	0.38	–	0.38	–	0.5	–	0.5
3/4	1.63	–	1.63	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–
7/8	–	1.88	–	1.88	0.5	–	0.38	–	0.38	–	0.5	–	0.5
1	1.88	–	1.88	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–
1 1/8	–	2.13	–	2.13	0.5	–	0.38	–	0.38	–	0.5	–	0.5
1 1/4	2.13	–	2.13	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–
1 3/8	–	2.38	–	2.38	0.5	–	0.38	–	0.38	–	0.5	–	0.5
1 1/2	2.38	–	2.38	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–
1 5/8	–	2.81	–	2.81	0.5	–	0.56	–	0.56	–	0.5	–	0.5
1 3/4	2.81	–	2.81	–	0.5	0.56	–	0.56	–	0.5	–	0.5	–
1 7/8	–	3.25	–	3.25	0.5	–	0.75	–	0.75	–	0.5	–	0.5
2	3.25	–	3.25	–	0.5	0.75	–	0.75	–	0.5	–	0.5	–
2 7/8	–	3.85	–	3.85	0.5	–	0.38	–	0.38	–	0.5	–	0.5
3	3.85	–	3.85	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–
3 7/8	–	4.85	–	4.85	0.5	–	0.38	–	0.38	–	0.5	–	0.5
4	4.85	–	4.85	–	0.5	0.38	–	0.38	–	0.5	–	0.5	–

Datasheet

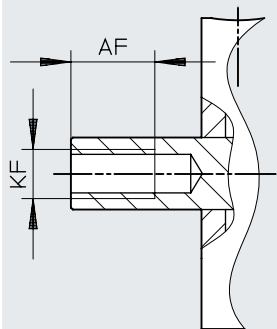
L ¹⁾	T1	W1	W2	WH	ZJ				≈ 1
						[L4]	[Q]	[Q-L4]	
1/16	0.19	90°	–	0.14	–	1.02	–	1.02	0.44
1/8	0.19	90°	–	0.14	1.02	1.02	1.02	1.02	0.44
3/16	0.19	90°	–	0.14	1.02	–	1.02	–	0.44
1/4	0.19	90°	–	0.14	1.02	–	1.02	–	0.44
3/8	0.19	90°	–	0.14	–	1.33	–	1.33	0.44
1/2	0.19	90°	–	0.14	1.33	–	1.33	–	0.44
5/8	0.19	90°	–	0.14	–	1.77	–	1.77	0.44
3/4	0.19	90°	–	0.14	1.77	–	1.77	–	0.44
7/8	0.19	90°	–	0.14	–	2.02	–	2.02	0.44
1	0.19	90°	–	0.14	2.02	–	2.02	–	0.44
1 1/8	0.19	90°	–	0.14	–	2.27	–	2.27	0.44
1 1/4	0.19	90°	–	0.14	2.27	–	2.27	–	0.44
1 3/8	0.19	90°	–	0.14	–	2.52	–	2.52	0.44
1 1/2	0.19	90°	–	0.14	2.52	–	2.52	–	0.44
1 5/8	0.19	90°	–	0.14	–	2.95	–	2.95	0.44
1 3/4	0.19	90°	–	0.14	2.95	–	2.95	–	0.44
1 7/8	0.19	90°	–	0.14	–	3.39	–	3.39	0.44
2	0.19	90°	–	0.14	3.39	–	3.39	–	0.44
2 7/8	–	90°	–	0.14	–	3.99	–	3.99	0.44
3	–	90°	–	0.14	3.99	–	3.99	–	0.44
3 7/8	–	90°	–	0.14	–	4.99	–	4.99	0.44
4	–	90°	–	0.14	4.99	–	4.99	–	0.44

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[F] Female thread



L ¹⁾ [in]	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/16	–	0.38	–	0.38	M8	5/16-24 UNF-2B
1/8	0.38	0.38	0.38	0.38	M8	5/16-24 UNF-2B
3/16	0.38	–	0.38	–	M8	5/16-24 UNF-2B
1/4	0.38	–	0.38	–	M8	5/16-24 UNF-2B
3/8	–	0.38	–	0.38	M8	5/16-24 UNF-2B
1/2	0.38	–	0.38	–	M8	5/16-24 UNF-2B
5/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
3/4	0.63	–	0.63	–	M8	5/16-24 UNF-2B
7/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
1	0.63	–	0.63	–	M8	5/16-24 UNF-2B
1 1/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
1 1/4	0.63	–	0.63	–	M8	5/16-24 UNF-2B
1 3/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
1 1/2	0.63	–	0.63	–	M8	5/16-24 UNF-2B
1 5/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
1 3/4	0.63	–	0.63	–	M8	5/16-24 UNF-2B
1 7/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
2	0.63	–	0.63	–	M8	5/16-24 UNF-2B
2 7/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
3	0.63	–	0.63	–	M8	5/16-24 UNF-2B
3 7/8	–	0.63	–	0.63	M8	5/16-24 UNF-2B
4	0.63	–	0.63	–	M8	5/16-24 UNF-2B

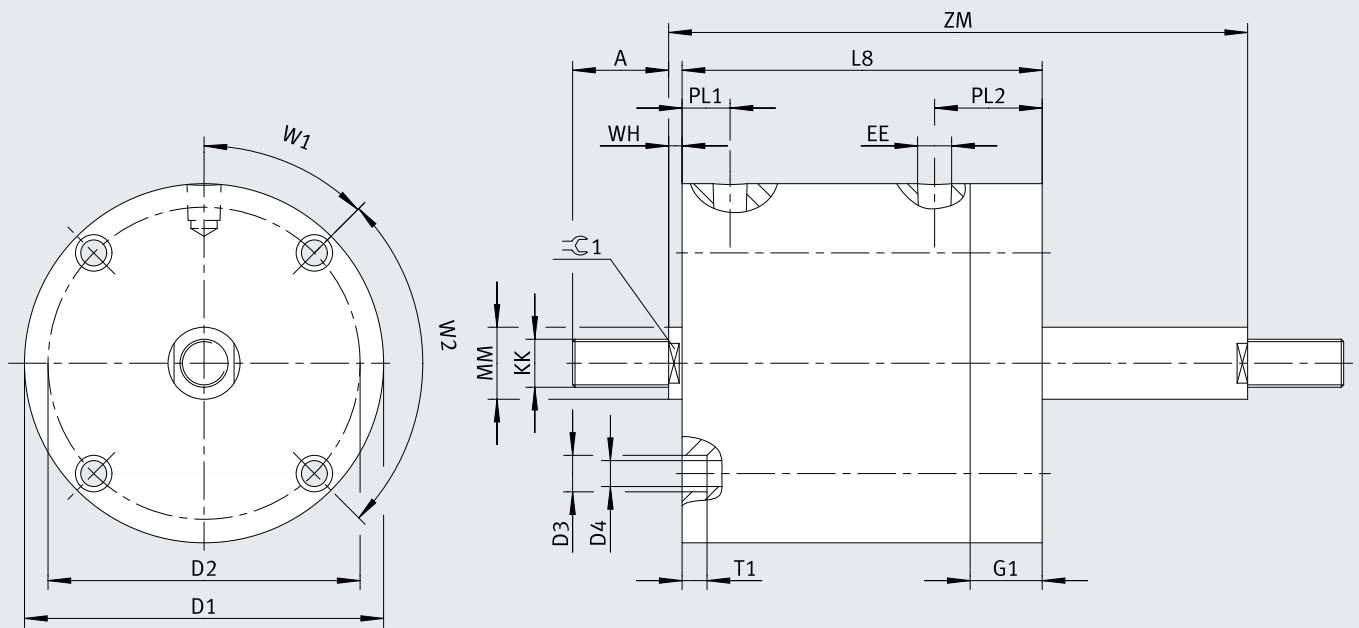
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$

Download CAD data → www.festo.com

[T] Through piston rod

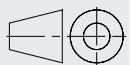
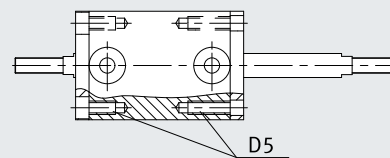
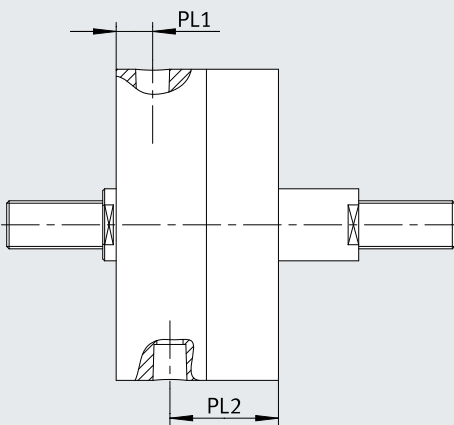


DPCA-...-1/8" ...1/2"

DPCA-...-Q-...-1/8" ...1/2"

DPCA-...-3" ...4"

DPCA-...-Q-...-3" ...4"



Datasheet

L ¹⁾	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
3/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1 1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1 1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
1 3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
3	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A
4	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.47	M8	5/16-24 UNF-2A

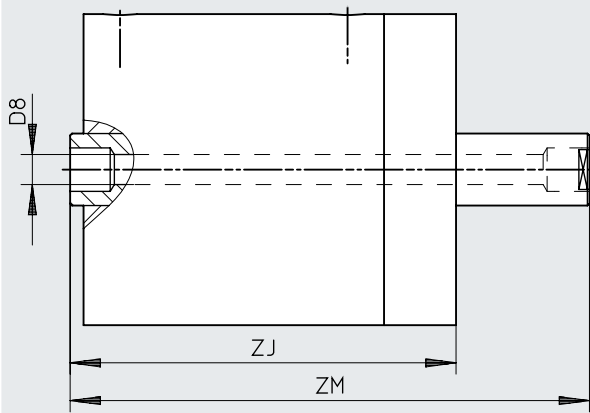
L ¹⁾	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	±0.1
1/8	1.22	0.5	0.31	0.91	0.18	90°	–	0.14	1.625	0.44
3/16	1.22	0.5	0.31	0.91	0.18	90°	–	0.14	1.6875	0.44
1/4	1.22	0.5	0.31	0.91	0.18	90°	–	0.14	1.75	0.44
1/2	1.53	0.5	0.53	1	0.18	90°	–	0.14	2.31	0.44
3/4	1.97	0.5	0.38	0.84	0.18	90°	–	0.14	3	0.44
1	2.22	0.5	0.38	0.84	0.18	90°	–	0.14	3.5	0.44
1 1/4	2.47	0.5	0.38	0.84	0.18	90°	–	0.14	4	0.44
1 1/2	2.72	0.5	0.38	0.84	0.18	90°	–	0.14	4.5	0.44
1 3/4	3.16	0.5	0.56	0.85	0.18	90°	–	0.14	5.19	0.44
2	3.6	0.5	0.75	0.85	0.18	90°	–	0.14	5.88	0.44
3	4.19	0.5	0.38	0.84	–	90°	–	0.14	7.47	0.44
4	5.19	0.5	0.38	0.84	–	90°	–	0.14	9.47	0.44

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



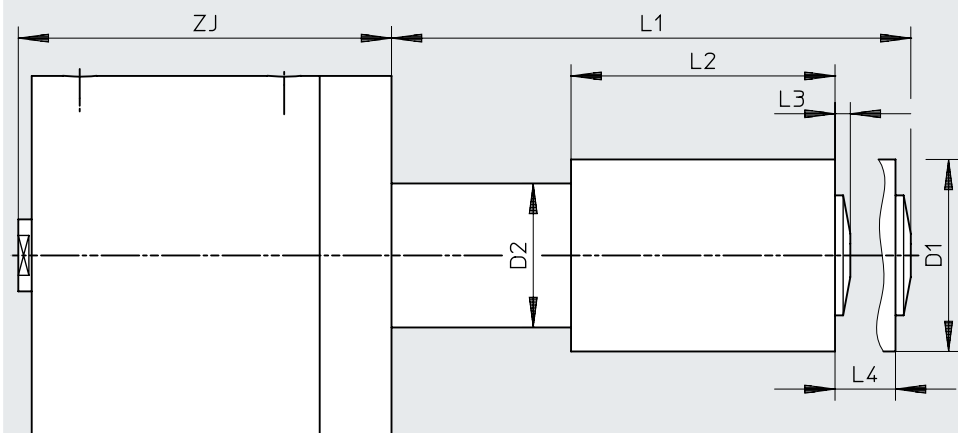
L ¹⁾	D8 ø	ZJ	ZM
1/8	5/32	1.36	1.625
3/16	5/32	1.36	1.6875
1/4	5/32	1.36	1.75
1/2	5/32	1.67	2.31
3/4	5/32	2.11	3
1	5/32	2.36	3.5
1 1/4	5/32	2.61	4
1 1/2	5/32	2.86	4.5
1 3/4	5/32	3.3	5.19
2	5/32	3.74	5.88
3	5/32	4.33	7.47
4	5/32	5.33	9.47

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing$ 1 1/8 Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹⁾	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	1.5	1.13	1.4	0.63	0.14	0.5	1.36
3/16	1.5	1.13	1.53	0.69	0.15	0.5	1.36
1/4	1.5	1.13	1.66	0.75	0.16	0.5	1.36
1/2	1.5	1.13	2.16	1	0.16	0.5	1.67
3/4	1.5	1.13	2.66	1.25	0.16	0.5	2.11
1	1.5	1.13	3.16	1.5	0.16	0.5	2.36
1 1/4	1.5	1.13	3.66	1.75	0.16	0.5	2.61
1 1/2	1.5	1.13	4.16	2	0.16	0.5	2.86
1 3/4	1.5	1.13	4.66	2.25	0.16	0.5	3.3
2	1.5	1.13	5.16	2.5	0.16	0.5	3.74
3	1.5	1.13	7.16	3.5	0.16	0.5	4.33
4	1.5	1.13	9.16	4.5	0.16	0.5	5.33

1) L = Stroke

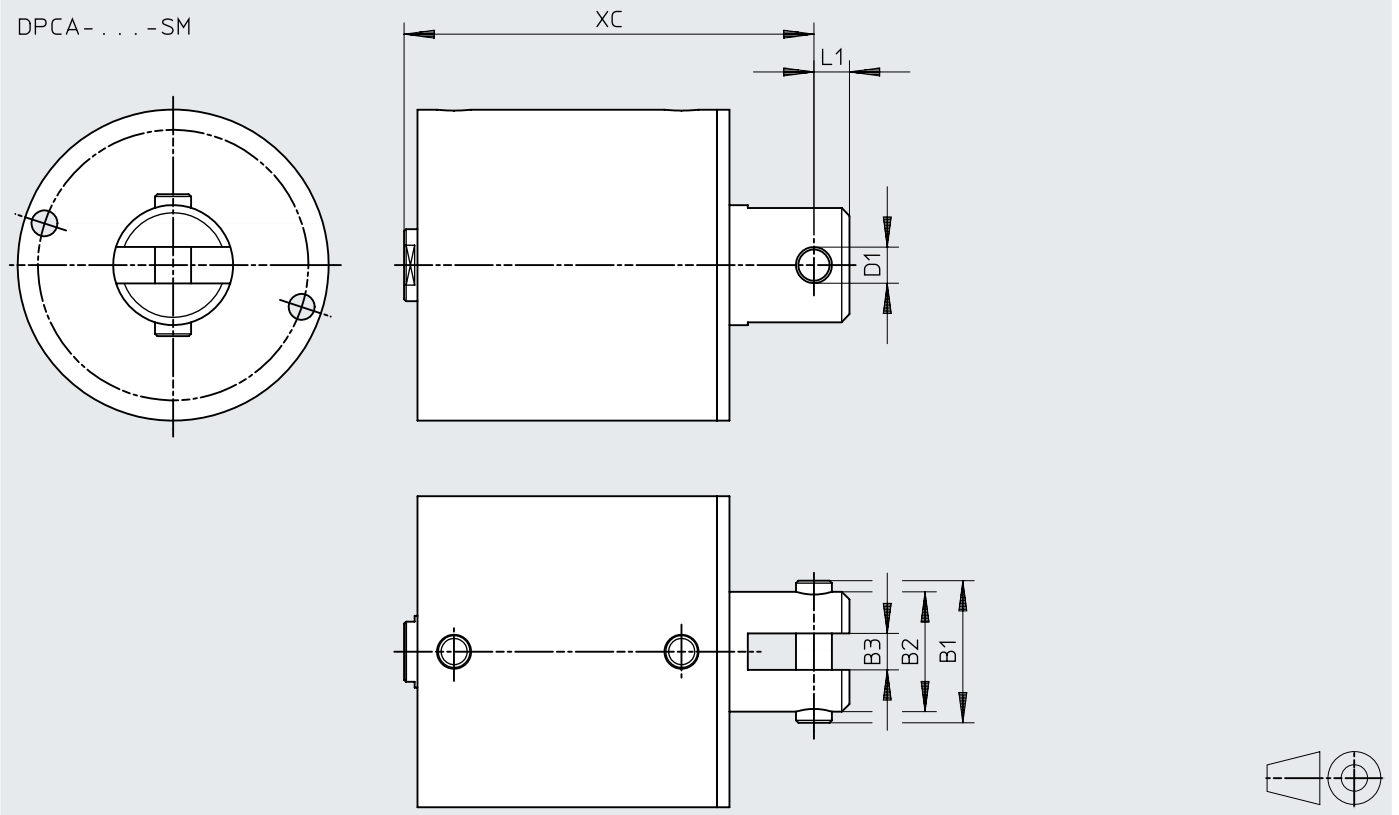
Datasheet

Dimensions – piston $\varnothing 1\frac{1}{8}$ Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA-...-SM



L ¹⁾	B1	B2	B3	D1 ø	D2 ø	L1	XC			
								[L4]	[Q]	[Q-L4]
1/16	1.21	1	0.31	0.3125	1	0.37	–	1.83	–	1.83
1/8	1.21	1	0.31	0.3125	1	0.37	1.83	1.83	1.83	1.83
3/16	1.21	1	0.31	0.3125	1	0.37	1.83	–	1.83	–
1/4	1.21	1	0.31	0.3125	1	0.37	1.83	–	1.83	–
3/8	1.21	1	0.31	0.3125	1	0.37	–	2.14	–	2.14
1/2	1.21	1	0.31	0.3125	1	0.37	2.14	–	2.14	–
5/8	1.21	1	0.31	0.3125	1	0.37	–	2.58	–	2.58
3/4	1.21	1	0.31	0.3125	1	0.37	2.58	–	2.58	–
7/8	1.21	1	0.31	0.3125	1	0.37	–	2.83	–	2.83
1	1.21	1	0.31	0.3125	1	0.37	2.83	–	2.83	–
1 1/8	1.21	1	0.31	0.3125	1	0.37	–	3.08	–	3.08
1 1/4	1.21	1	0.31	0.3125	1	0.37	3.08	–	3.08	–
1 3/8	1.21	1	0.31	0.3125	1	0.37	–	3.33	–	3.33
1 1/2	1.21	1	0.31	0.3125	1	0.37	3.33	–	3.33	–
1 5/8	1.21	1	0.31	0.3125	1	0.37	–	3.76	–	3.76
1 3/4	1.21	1	0.31	0.3125	1	0.37	3.76	–	3.76	–
1 7/8	1.21	1	0.31	0.3125	1	0.37	–	4.2	–	4.2
2	1.21	1	0.31	0.3125	1	0.37	4.2	–	4.2	–
2 7/8	1.21	1	0.31	0.3125	1	0.37	–	4.8	–	4.8
3	1.21	1	0.31	0.3125	1	0.37	4.8	–	4.8	–
3 7/8	1.21	1	0.31	0.3125	1	0.37	–	5.8	–	5.8
4	1.21	1	0.31	0.3125	1	0.37	5.8	–	5.8	–

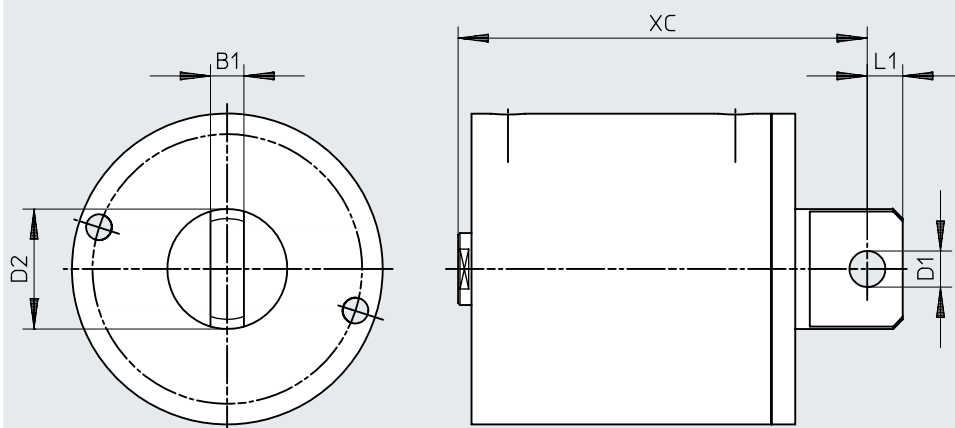
1) L = Stroke

Datasheet

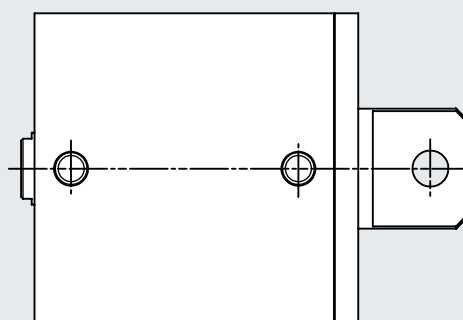
Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-ESM



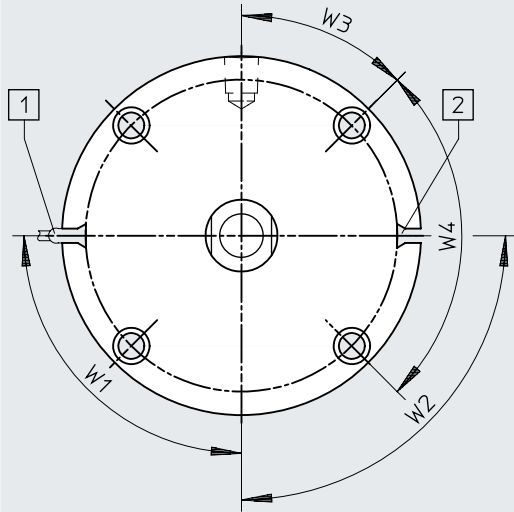
L ¹⁾	B1	B2	B3	D1 ø	D2 ø	L1	XC			
								[L4]	[Q]	[Q-L4]
1/16	0.3	1	0.31	0.3135	1	0.37	–	1.83	–	1.83
1/8	0.3	1	0.31	0.3135	1	0.37	1.83	1.83	1.83	1.83
3/16	0.3	1	0.31	0.3135	1	0.37	1.83	–	1.83	–
1/4	0.3	1	0.31	0.3135	1	0.37	1.83	–	1.83	–
3/8	0.3	1	0.31	0.3135	1	0.37	–	2.14	–	2.14
1/2	0.3	1	0.31	0.3135	1	0.37	2.14	–	2.14	–
5/8	0.3	1	0.31	0.3135	1	0.37	–	2.58	–	2.58
3/4	0.3	1	0.31	0.3135	1	0.37	2.58	–	2.58	–
7/8	0.3	1	0.31	0.3135	1	0.37	–	2.83	–	2.83
1	0.3	1	0.31	0.3135	1	0.37	2.83	–	2.83	–
1 1/8	0.3	1	0.31	0.3135	1	0.37	–	3.08	–	3.08
1 1/4	0.3	1	0.31	0.3135	1	0.37	3.08	–	3.08	–
1 3/8	0.3	1	0.31	0.3135	1	0.37	–	3.33	–	3.33
1 1/2	0.3	1	0.31	0.3135	1	0.37	3.33	–	3.33	–
1 5/8	0.3	1	0.31	0.3135	1	0.37	–	3.76	–	3.76
1 3/4	0.3	1	0.31	0.3135	1	0.37	3.76	–	3.76	–
1 7/8	0.3	1	0.31	0.3135	1	0.37	–	4.2	–	4.2
2	0.3	1	0.31	0.3135	1	0.37	4.2	–	4.2	–
2 7/8	0.3	1	0.31	0.3135	1	0.37	–	4.8	–	4.8
3	0.3	1	0.31	0.3135	1	0.37	4.8	–	4.8	–
3 7/8	0.3	1	0.31	0.3135	1	0.37	–	5.8	–	5.8
4	0.3	1	0.31	0.3135	1	0.37	5.8	–	5.8	–

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹⁾	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
3/8	–	2	–	–	40°	–	40°	–	–	90°	–
1/2	2	–	–	–	40°	40°	–	–	–	90°	–
5/8	–	2	–	2	40°	–	40°	–	40°	90°	–
3/4	2	–	2	–	40°	40°	–	40°	–	90°	–
7/8	–	2	–	2	40°	–	40°	–	40°	90°	–
1	2	–	2	–	40°	40°	–	40°	–	90°	–
1 1/8	–	1	–	2	40°	–	–	–	40°	90°	–
1 1/4	2	–	2	–	40°	40°	–	40°	–	90°	–
1 3/8	–	1	–	2	40°	–	–	–	40°	90°	–
1 1/2	1	–	1	–	40°	–	–	–	–	90°	–
1 5/8	–	1	–	1	40°	–	–	–	–	90°	–
1 3/4	1	–	1	–	40°	–	–	–	–	90°	–
1 7/8	–	1	–	1	40°	–	–	–	–	90°	–
2	1	–	1	–	40°	–	–	–	–	90°	–
2 7/8	–	1	–	1	40°	–	–	–	–	90°	–
3	1	–	1	–	40°	–	–	–	–	90°	–
3 7/8	–	1	–	1	40°	–	–	–	–	90°	–
4	1	–	1	–	40°	–	–	–	–	90°	–

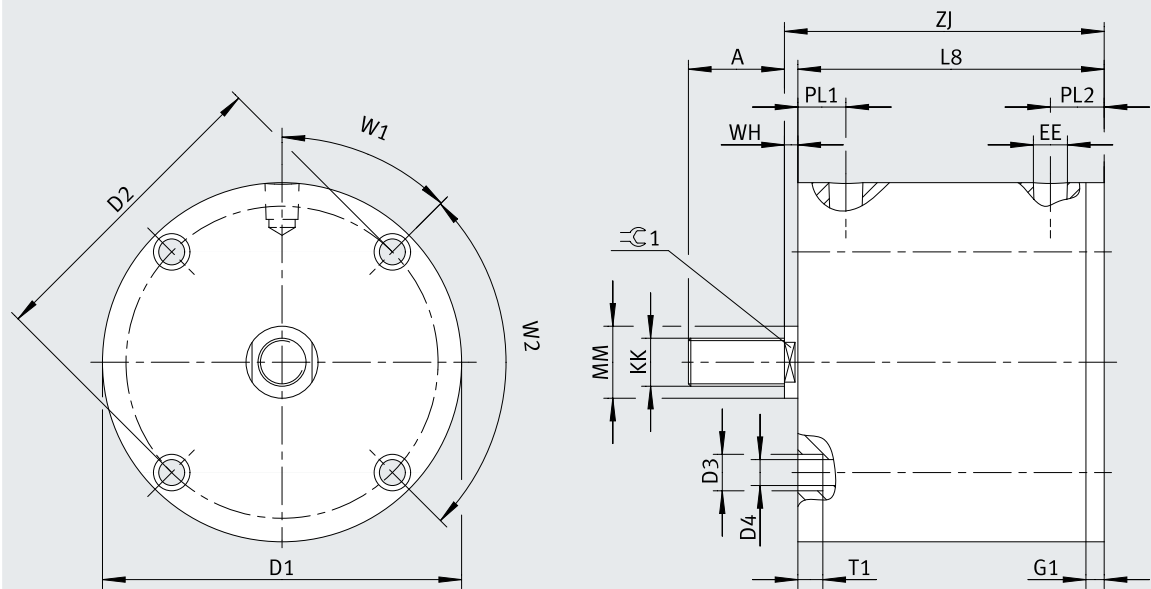
1) L = Stroke

2) Sensor slot number

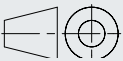
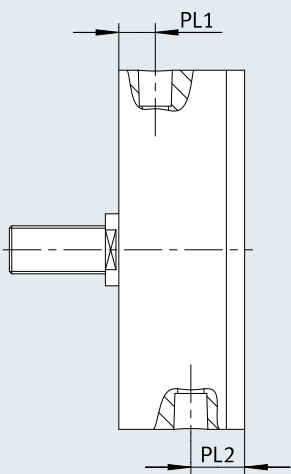
Datasheet

Dimensions – piston $\varnothing 1\frac{5}{8}$ "

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DPCA-...-1/8" ...1/4"
DPCA-...-Q-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1				KK	
							[N]		[L4]	[Q]	[Q-L4]		[N]
1/8	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A
1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M10	3/8-24 UNF-2A
1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M10	3/8-24 UNF-2A
3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M10	3/8-24 UNF-2A
1	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A
1 1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	–	0.13	–	0.25	M10	3/8-24 UNF-2A
1 1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A
1 3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	–	0.13	–	0.25	M10	3/8-24 UNF-2A
2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A
2 3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	–	0.13	–	0.25	M10	3/8-24 UNF-2A
3	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A
3 3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	–	0.13	–	0.25	M10	3/8-24 UNF-2A
4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	0.25	–	M10	3/8-24 UNF-2A

L ¹	L8				MM ø	PL1				PL2			
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		[L4]	[Q]	[Q-L4]
1/8	1	–	1.13	–	0.62	0.5	–	0.5	–	0.5	–	0.63	–
1/4	1.13	1.63	1.26	1.76	0.62	0.5	0.38	0.5	0.38	0.63	0.5	0.63	0.63
1/2	1.68	1.88	1.76	2.01	0.62	0.38	0.38	0.38	0.38	0.5	0.45	0.63	0.58
3/4	1.88	2.19	2.01	2.32	0.62	0.38	0.38	0.38	0.38	0.5	0.5	0.63	0.63
1	2.19	–	2.32	–	0.62	0.38	–	0.38	–	0.5	–	0.63	–
1 1/4	–	2.69	–	2.82	0.62	–	0.38	–	0.38	–	0.5	–	0.63
1 1/2	2.69	–	2.82	–	0.62	0.38	–	0.38	–	0.5	–	0.63	–
1 3/4	–	3.19	–	3.32	0.62	–	0.38	–	0.38	–	0.5	–	0.63
2	3.19	–	3.32	–	0.62	0.38	–	0.38	–	0.5	–	0.63	–
2 3/4	–	4.19	–	4.32	0.62	–	0.38	–	0.38	–	0.5	–	0.63
3	4.19	–	4.32	–	0.62	0.38	–	0.38	–	0.5	–	0.63	–
3 3/4	–	5.19	–	5.32	0.62	–	0.38	–	0.38	–	0.5	–	0.63
4	5.19	–	5.32	–	0.62	0.38	–	0.38	–	0.5	–	0.63	–

L ¹	T1	W1	W2	WH	ZJ				≈ 1
						[L4]	[Q]	[Q-L4]	
1/8	0.19	90°	–	0.14	1.14	–	1.27	–	0.5
1/4	0.19	90°	–	0.14	1.27	1.77	1.4	1.9	0.5
1/2	0.19	90°	–	0.14	1.77	2.02	1.9	2.15	0.5
3/4	0.19	90°	–	0.14	2.02	2.33	2.15	2.46	0.5
1	0.19	90°	–	0.14	2.33	–	2.46	–	0.5
1 1/4	0.19	90°	–	0.14	–	2.83	–	2.96	0.5
1 1/2	0.19	90°	–	0.14	2.83	–	2.96	–	0.5
1 3/4	0.19	90°	–	0.14	–	3.33	–	3.46	0.5
2	0.19	90°	–	0.14	3.33	–	3.46	–	0.5
2 3/4	0.19	90°	–	0.14	–	4.33	–	4.46	0.5
3	0.19	90°	–	0.14	4.33	–	4.46	–	0.5
3 3/4	0.19	90°	–	0.14	–	5.33	–	5.46	0.5
4	0.19	90°	–	0.14	5.33	–	5.46	–	0.5

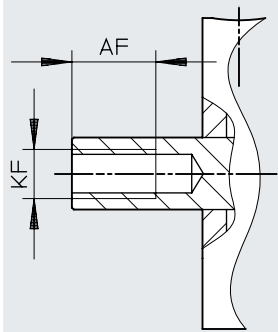
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1\frac{5}{8}$

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[F] Female thread



L ¹	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/8	0.38	–	0.38	–	M10	3/8-24 UNF-2B
1/4	0.44	0.63	0.44	0.63	M10	3/8-24 UNF-2B
1/2	0.63	0.63	0.63	0.63	M10	3/8-24 UNF-2B
3/4	0.63	0.75	0.63	0.75	M10	3/8-24 UNF-2B
1	0.75	–	0.75	–	M10	3/8-24 UNF-2B
1 1/4	–	0.75	–	0.75	M10	3/8-24 UNF-2B
1 1/2	0.75	–	0.75	–	M10	3/8-24 UNF-2B
1 3/4	–	0.75	–	0.75	M10	3/8-24 UNF-2B
2	0.75	–	0.75	–	M10	3/8-24 UNF-2B
2 3/4	–	0.75	–	0.75	M10	3/8-24 UNF-2B
3	0.75	–	0.75	–	M10	3/8-24 UNF-2B
3 3/4	–	0.75	–	0.75	M10	3/8-24 UNF-2B
4	0.75	–	0.75	–	M10	3/8-24 UNF-2B

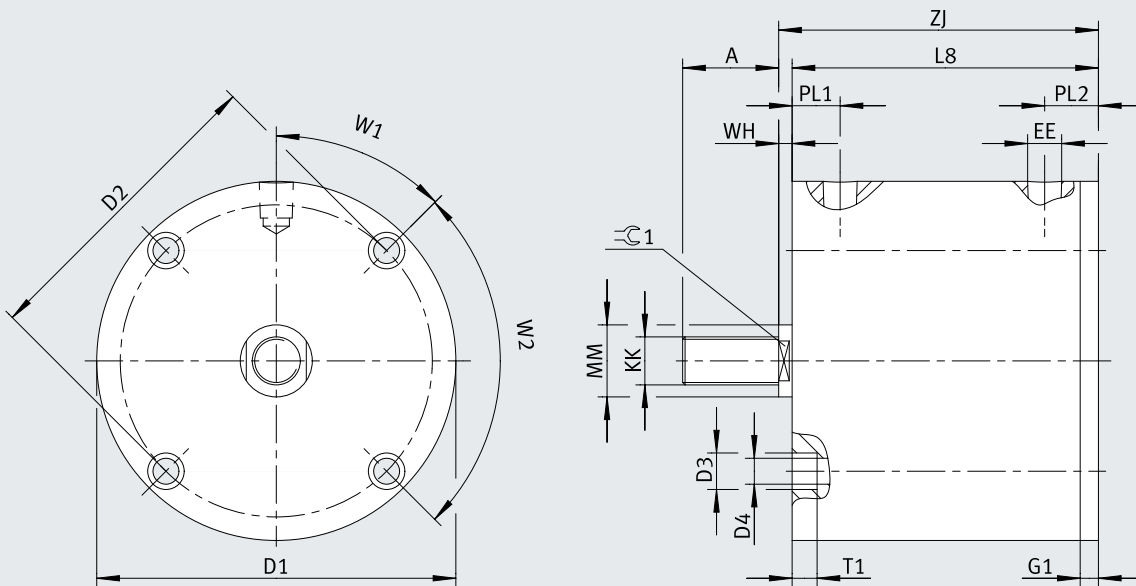
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{5}{8}$

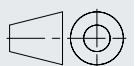
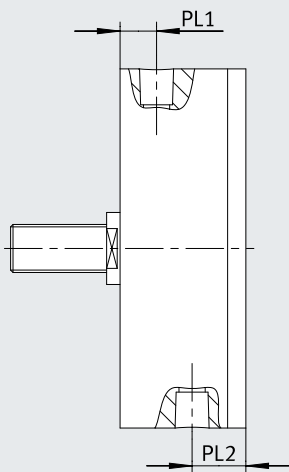
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[T] Through piston rod



DPCA-...-1/8" ...1/4"

DPCA-...-Q-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
1	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
1 1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
3	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A
4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	M10	3/8-24 UNF-2A

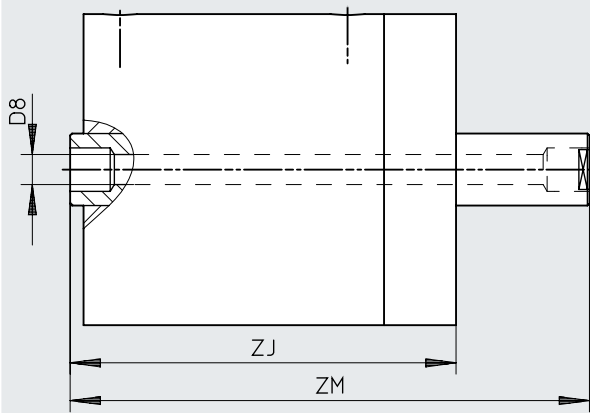
L ¹	L8	MM ø		PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
			[Q]								
1/8	1.47	0.62	0.5	0.5	0.97	0.19	90°	–	0.14	1.875	0.5
1/4	1.6	0.62	0.5	0.5	1.1	0.19	90°	–	0.14	2.13	0.5
1/2	2.1	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	2.88	0.5
3/4	2.35	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	3.38	0.5
1	2.66	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	3.94	0.5
1 1/2	3.16	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	4.94	0.5
2	3.66	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	5.94	0.5
3	4.66	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	7.94	0.5
4	5.66	0.62	0.5	0.38	0.97	0.19	90°	–	0.14	9.94	0.5

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{5}{8}$ Download CAD data → www.festo.com

[H] Through, hollow piston rod

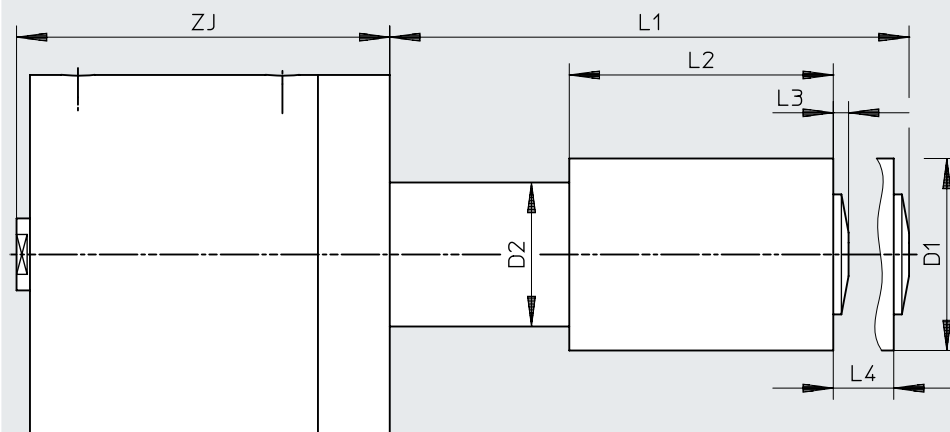


L ¹	D8 Ø	ZJ	ZM
1/8	1/4	1.61	1.875
1/4	1/4	1.74	2.13
1/2	1/4	2.24	2.88
3/4	1/4	2.49	3.38
1	1/4	2.8	3.94
1 1/2	1/4	3.3	4.94
2	1/4	3.8	5.94
3	1/4	4.8	7.94
4	1/4	5.8	9.94

1) L = Stroke

Dimensions – piston $\varnothing 1 \frac{5}{8}$ Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.4	0.63	0.14	0.5	1.61
1/4	2	1.5	1.66	0.75	0.16	0.5	1.74
1/2	2	1.5	2.16	1	0.16	0.5	2.24
3/4	2	1.5	2.66	1.25	0.16	0.5	2.49
1	2	1.5	3.16	1.5	0.16	0.5	2.8
1 1/2	2	1.5	4.16	2	0.16	0.5	3.3
2	2	1.5	5.16	2.5	0.16	0.5	3.8
3	2	1.5	7.16	3.5	0.16	0.5	4.8
4	2	1.5	9.16	4.5	0.16	0.5	5.8

1) L = Stroke

Datasheet

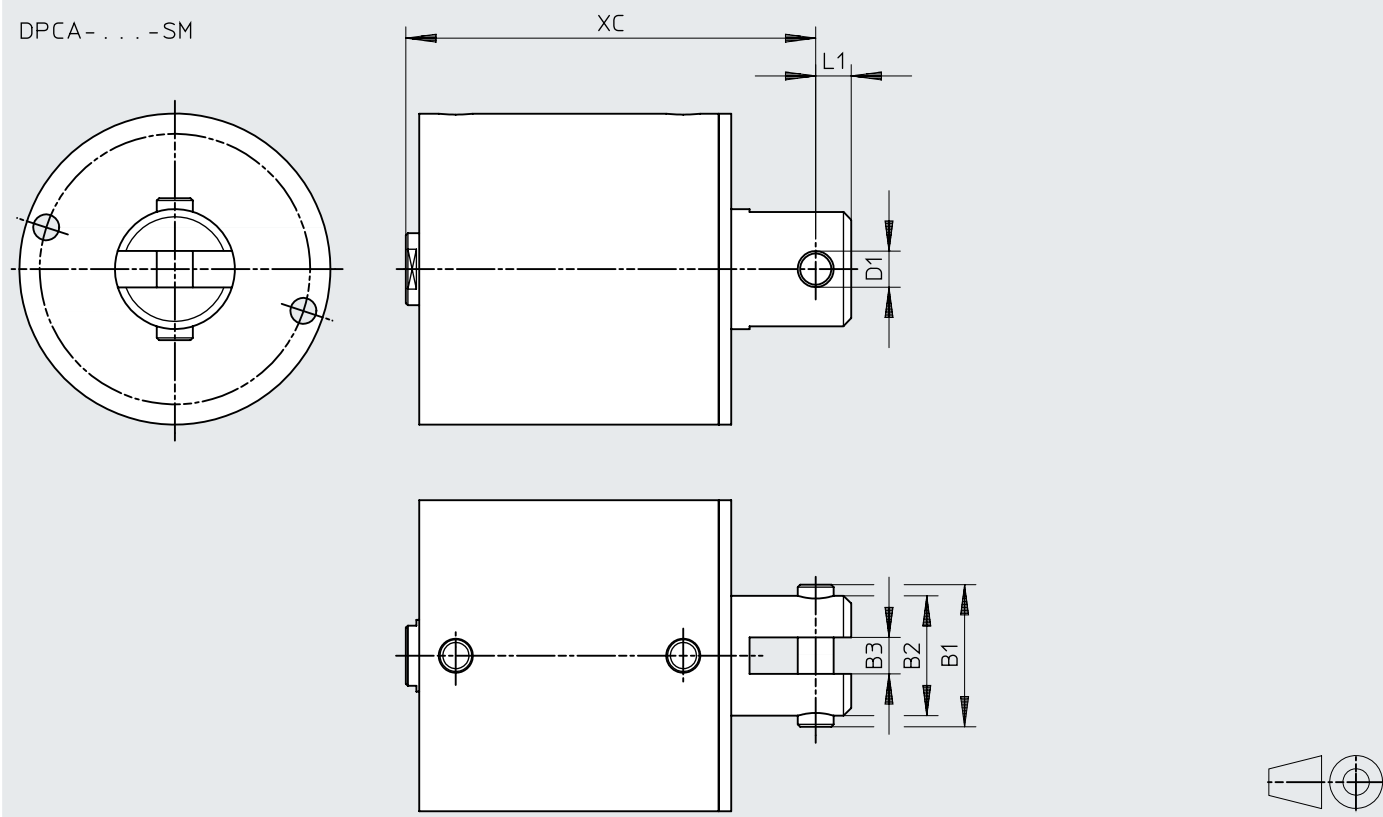
Dimensions – piston $\varnothing 1\frac{5}{8}$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA – . . . – SM



L ¹	B1	B2	B3	D1 ø	D2 ø	L1	XC			
								[L4]	[Q]	[Q-L4]
1/8	1.48	1.25	0.38	0.375	1.25	0.37	2.02	–	2.02	–
1/4	1.48	1.25	0.38	0.375	1.25	0.37	2.15	2.65	2.15	2.65
1/2	1.48	1.25	0.38	0.375	1.25	0.37	2.65	2.9	2.65	2.9
3/4	1.48	1.25	0.38	0.375	1.25	0.37	2.9	3.21	2.9	3.21
1	1.48	1.25	0.38	0.375	1.25	0.37	3.21	–	3.21	–
1 1/4	1.48	1.25	0.38	0.375	1.25	0.37	–	3.71	–	3.71
1 1/2	1.48	1.25	0.38	0.375	1.25	0.37	3.71	–	3.71	–
1 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	4.21	–	4.21
2	1.48	1.25	0.38	0.375	1.25	0.37	4.21	–	4.21	–
2 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	5.21	–	5.21
3	1.48	1.25	0.38	0.375	1.25	0.37	5.21	–	5.21	–
3 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	6.21	–	6.21
4	1.48	1.25	0.38	0.375	1.25	0.37	6.21	–	6.21	–

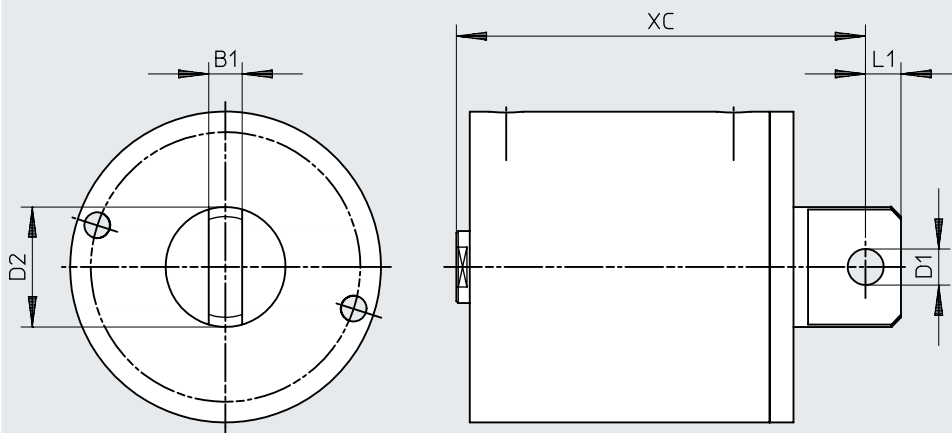
1) L = Stroke

Datasheet

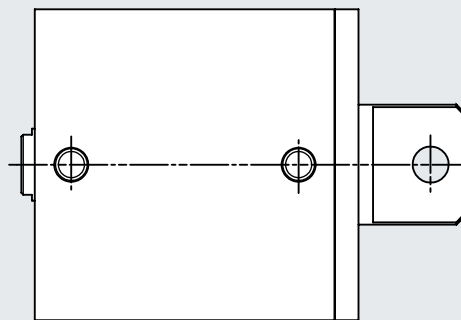
Dimensions – piston $\varnothing 1 \frac{5}{8}$ Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA - ... - ESM



L ¹	B1	B2	B3	D1 ø	D2 ø	L1	XC			
								[L4]	[Q]	[Q-L4]
1/8	0.35	1.25	0.38	0.376	1.25	0.37	2.02	–	2.02	–
1/4	0.35	1.25	0.38	0.376	1.25	0.37	2.15	2.65	2.15	2.65
1/2	0.35	1.25	0.38	0.376	1.25	0.37	2.65	2.9	2.65	2.9
3/4	0.35	1.25	0.38	0.376	1.25	0.37	2.9	3.21	2.9	3.21
1	0.35	1.25	0.38	0.376	1.25	0.37	3.21	–	3.21	–
1 1/4	0.35	1.25	0.38	0.376	1.25	0.37	–	3.71	–	3.71
1 1/2	0.35	1.25	0.38	0.376	1.25	0.37	3.71	–	3.71	–
1 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	4.21	–	4.21
2	0.35	1.25	0.38	0.376	1.25	0.37	4.21	–	4.21	–
2 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	5.21	–	5.21
3	0.35	1.25	0.38	0.376	1.25	0.37	5.21	–	5.21	–
3 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	6.21	–	6.21
4	0.35	1.25	0.38	0.376	1.25	0.37	6.21	–	6.21	–

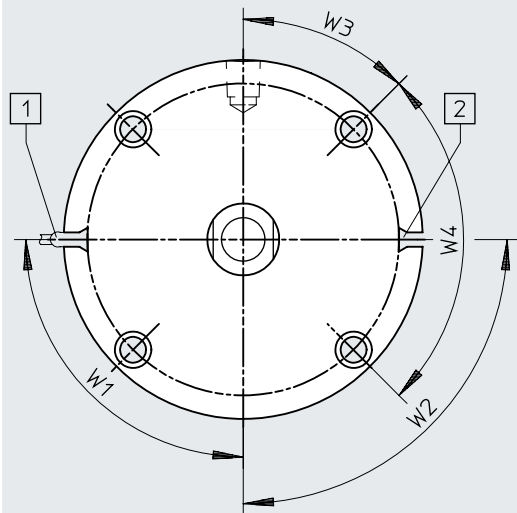
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1\frac{5}{8}$

Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
1/4	2	2	2	2	45°	45°	45°	45°	45°	90°	–
1/2	2	2	2	2	45°	45°	45°	45°	45°	90°	–
3/4	2	2	2	2	45°	45°	45°	45°	45°	90°	–
1	2	–	2	–	45°	45°	–	45°	–	90°	–
1 1/4	–	1	–	1	45°	–	–	–	–	90°	–
1 1/2	1	–	1	–	45°	–	–	–	–	90°	–
1 3/4	–	1	–	1	45°	–	–	–	–	90°	–
2	1	–	1	–	45°	–	–	–	–	90°	–
2 3/4	–	1	–	1	45°	–	–	–	–	90°	–
3	1	–	1	–	45°	–	–	–	–	90°	–
3 3/4	–	1	–	1	45°	–	–	–	–	90°	–
4	1	–	1	–	45°	–	–	–	–	90°	–

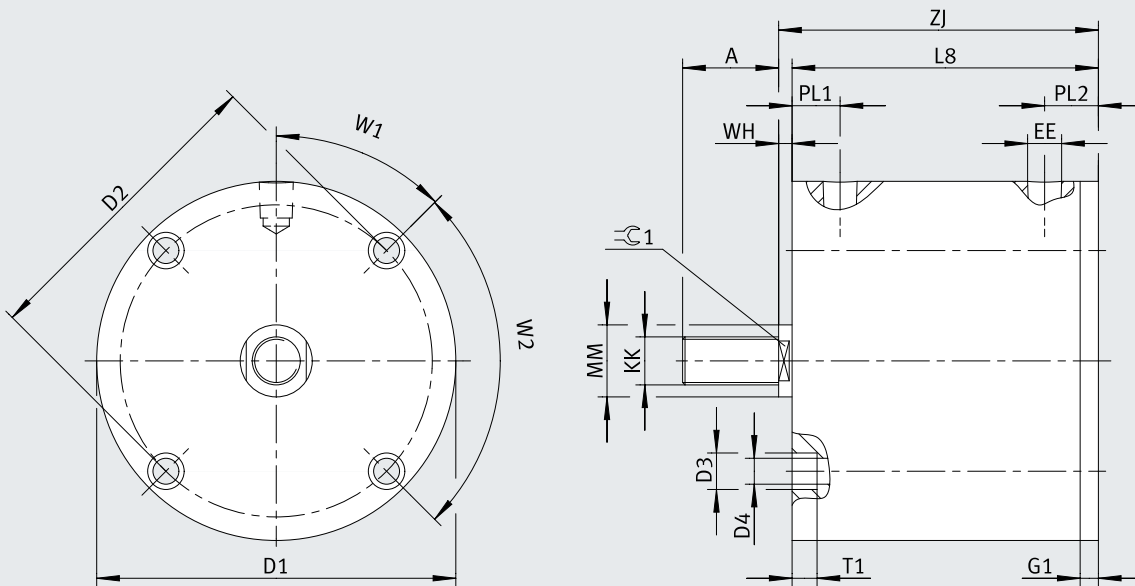
1) L = Stroke

2) Sensor slot number

Datasheet

Dimensions – piston Ø 2

Download CAD data → www.festo.com

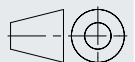
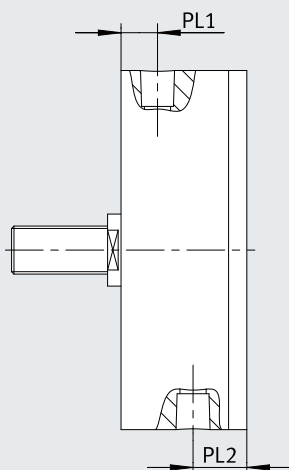


DPCA-...-1/8" ...3/8"

DPCA-...-L4-...-1/8"

DPCA-...-Q-...-1/8" ...3/8"

DPCA-...-Q-...-L4-...-1/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1				KK	
							[N]		[L4]	[Q]	[Q-L4]		[N]
1/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M12	1/2-20 UNF-2A
1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M12	1/2-20 UNF-2A
3/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A
1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M12	1/2-20 UNF-2A
3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.13	0.25	0.25	M12	1/2-20 UNF-2A
1	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A
1 1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	–	0.13	–	0.25	M12	1/2-20 UNF-2A
1 1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A
1 3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	–	0.13	–	0.25	M12	1/2-20 UNF-2A
2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A
2 3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	–	0.13	–	0.25	M12	1/2-20 UNF-2A
3	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A
3 3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	–	0.13	–	0.25	M12	1/2-20 UNF-2A
4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	0.25	–	M12	1/2-20 UNF-2A

L ¹	L8				MM ø	PL1	PL2			
		[L4]	[Q]	[Q-L4]				[L4]	[Q]	[Q-L4]
1/8	1.06	1.31	1.19	1.44	0.75	0.38	0.5	0.5	0.63	0.63
1/4	1.19	1.5	1.32	1.63	0.75	0.38	0.5	0.5	0.63	0.63
3/8	1.31	–	1.44	–	0.75	0.38	0.5	–	0.63	–
1/2	1.5	1.88	1.63	2.01	0.75	0.38	0.5	0.5	0.63	0.63
3/4	1.88	2.25	2.01	2.38	0.75	0.38	0.5	0.5	0.63	0.63
1	2.25	–	2.38	–	0.75	0.38	0.5	–	0.63	–
1 1/4	–	2.75	–	2.88	0.75	0.38	–	0.5	–	0.63
1 1/2	2.75	–	2.88	–	0.75	0.38	0.5	–	0.63	–
1 3/4	–	3.25	–	3.38	0.75	0.38	–	0.5	–	0.63
2	3.25	–	3.38	–	0.75	0.38	0.5	–	0.63	–
2 3/4	–	4.25	–	4.38	0.75	0.38	–	0.5	–	0.63
3	4.25	–	4.38	–	0.75	0.38	0.5	–	0.63	–
3 3/4	–	5.25	–	5.38	0.75	0.38	–	0.5	–	0.63
4	5.25	–	5.38	–	0.75	0.38	0.5	–	0.63	–

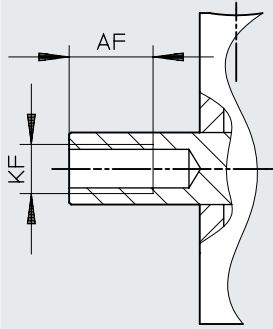
L ¹	T1	W1	W2	WH	ZJ				≈ 1
						[L4]	[Q]	[Q-L4]	
1/8	0.26	72°	–	0.14	1.2	1.45	1.33	1.58	0.63
1/4	0.26	72°	–	0.14	1.33	1.64	1.46	1.77	0.63
3/8	0.26	72°	–	0.14	1.45	–	1.58	–	0.63
1/2	0.26	72°	–	0.14	1.64	2.02	1.77	2.15	0.63
3/4	0.26	72°	–	0.14	2.02	2.39	2.15	2.52	0.63
1	0.26	72°	–	0.14	2.39	–	2.52	–	0.63
1 1/4	0.26	72°	–	0.14	–	2.89	–	3.02	0.63
1 1/2	0.26	72°	–	0.14	2.89	–	3.02	–	0.63
1 3/4	0.26	72°	–	0.14	–	3.39	–	3.52	0.63
2	0.26	72°	–	0.14	3.39	–	3.52	–	0.63
2 3/4	0.26	72°	–	0.14	–	4.39	–	4.52	0.63
3	0.26	72°	–	0.14	4.39	–	4.52	–	0.63
3 3/4	0.26	72°	–	0.14	–	5.39	–	5.52	0.63
4	0.26	72°	–	0.14	5.39	–	5.52	–	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2$ Download CAD data → www.festo.com

[F] Female thread



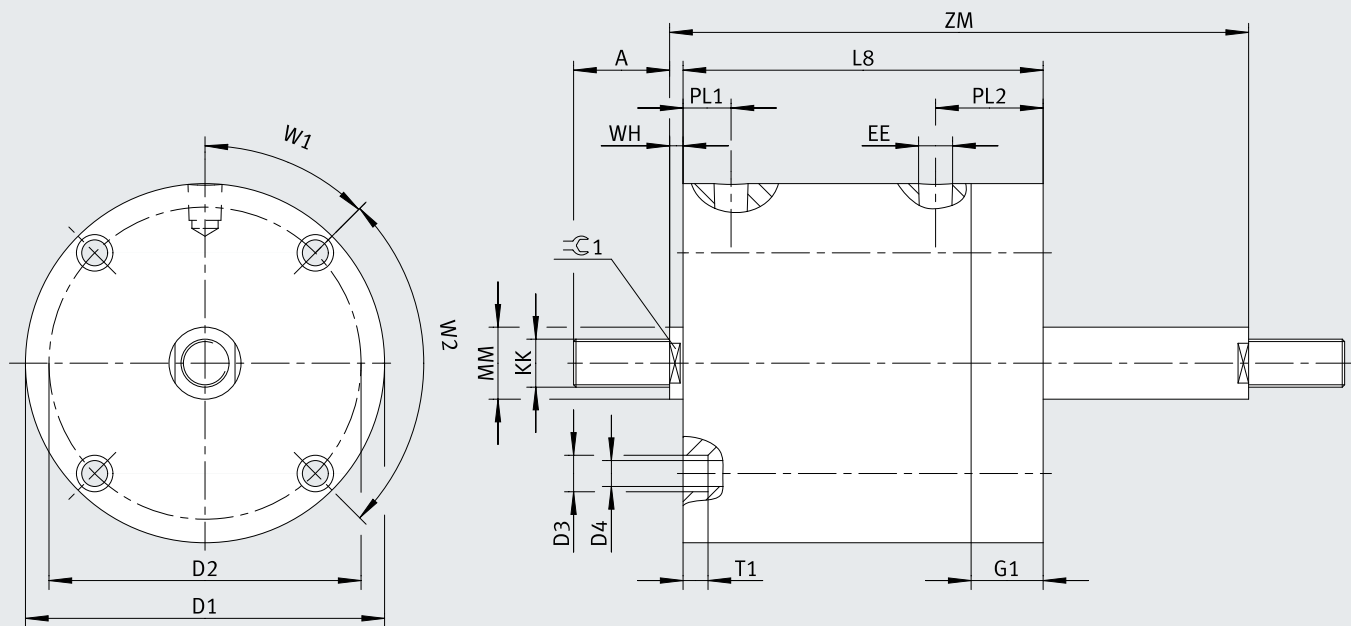
L ¹	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/8	0.4	0.63	0.4	0.63	M12	1/2-20 UNF-2B
1/4	0.5	0.63	0.5	0.63	M12	1/2-20 UNF-2B
3/8	0.63	–	0.63	–	M12	1/2-20 UNF-2B
1/2	0.63	0.75	0.63	0.75	M12	1/2-20 UNF-2B
3/4	0.75	0.88	0.75	0.88	M12	1/2-20 UNF-2B
1	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 1/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
1 1/2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
2 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
3	0.88	–	0.88	–	M12	1/2-20 UNF-2B
3 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
4	0.88	–	0.88	–	M12	1/2-20 UNF-2B

1) L = Stroke

Datasheet

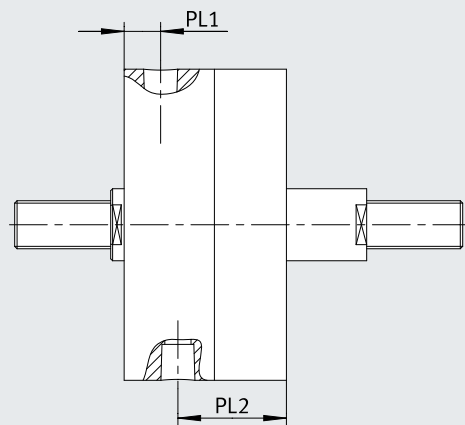
Dimensions – piston Ø 2 Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/8" ...3/8"

DPCA-...-Q-...-1/8" ...3/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1 1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A

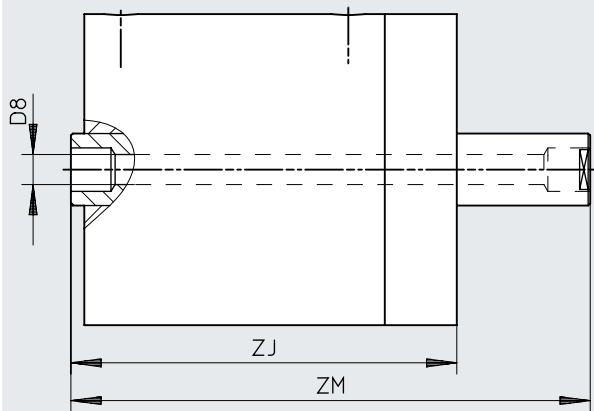
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	1.69	0.75	0.38	1.13	0.25	72°	–	0.14	2.095	0.63
1/4	1.81	0.75	0.38	1.12	0.25	72°	–	0.14	2.34	0.63
3/8	1.94	0.75	0.38	1.13	0.25	72°	–	0.14	2.595	0.63
1/2	2.13	0.75	0.38	1.13	0.24	72°	–	0.14	2.91	0.63
3/4	2.5	0.75	0.38	1.12	0.25	72°	–	0.14	3.53	0.63
1	2.88	0.75	0.38	1.13	0.25	72°	–	0.14	4.16	0.63
1 1/2	3.38	0.75	0.38	1.13	0.25	72°	–	0.14	5.16	0.63
2	3.88	0.75	0.38	1.13	0.25	72°	–	0.14	6.16	0.63
3	4.88	0.75	0.38	1.13	0.25	72°	–	0.14	8.16	0.63
4	5.88	0.75	0.38	1.13	0.25	72°	–	0.14	10.16	0.63

1) L = Stroke

Datasheet

Dinmensions – piston Ø 2 Download CAD data → www.festo.com

[H] Through, hollow piston rod



L ¹	D8 ø	ZJ	ZM
1/8	5/16	1.83	1.345
1/4	5/16	1.95	1.59
3/8	5/16	2.08	1.845
1/2	5/16	2.27	2.16
3/4	5/16	2.64	2.78
1	5/16	3.02	3.41
1 1/2	5/16	3.52	4.41
2	5/16	4.02	5.41
3	5/16	5.02	7.41
4	5/16	6.02	9.41

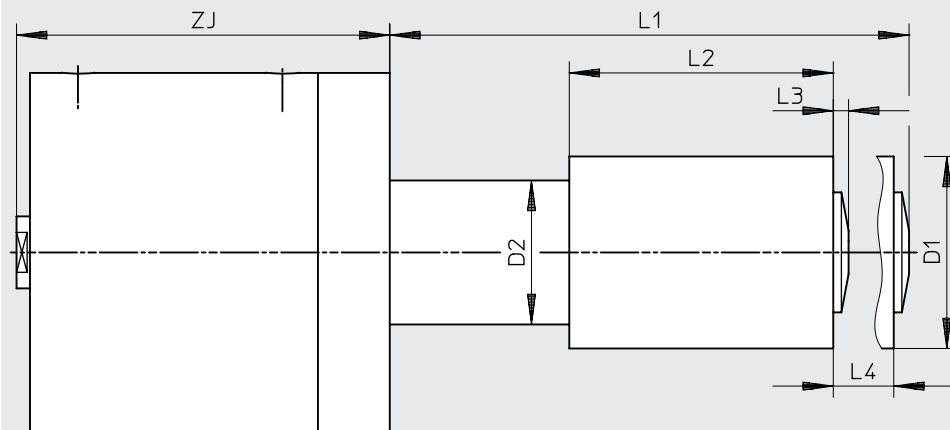
1) L = Stroke

Datasheet

Dimensions – piston Ø 2

Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	1.83
1/4	2	1.5	1.91	1	0.16	0.63	1.95
3/8	2	1.5	2.17	1.13	0.16	0.63	2.08
1/2	2	1.5	2.41	1.25	0.16	0.63	2.27
3/4	2	1.5	2.91	1.5	0.16	0.63	2.64
1	2	1.5	3.41	1.75	0.16	0.63	3.02
1 1/2	2	1.5	4.41	2.25	0.16	0.63	3.52
2	2	1.5	5.41	2.75	0.16	0.63	4.02
3	2	1.5	7.41	3.75	0.16	0.63	5.02
4	2	1.5	9.41	4.75	0.16	0.63	6.02

1) L = Stroke

Datasheet

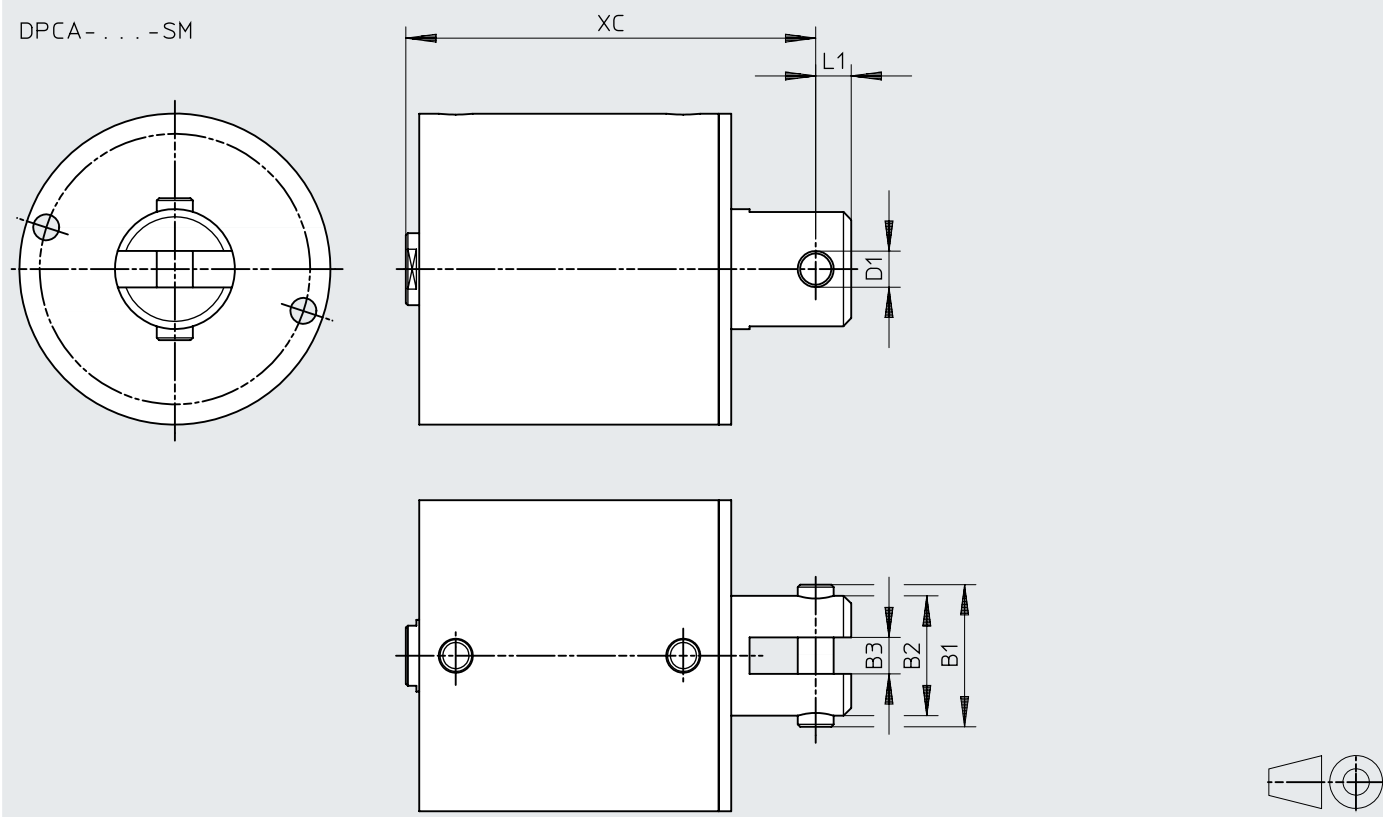
Dimensions – piston $\varnothing 2$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA – . . . – SM



L ¹	B1	B2	B3	D1 $\varnothing$	D2 $\varnothing$	L1	XC			
								[L4]	[Q]	[Q-L4]
1/8	1.48	1.25	0.38	0.375	1.25	0.37	2.08	2.33	2.08	2.33
1/4	1.48	1.25	0.38	0.375	1.25	0.37	2.21	2.52	2.21	2.52
3/8	1.48	1.25	0.38	0.375	1.25	0.37	2.33	–	2.33	–
1/2	1.48	1.25	0.38	0.375	1.25	0.37	2.52	2.9	2.52	2.9
3/4	1.48	1.25	0.38	0.375	1.25	0.37	2.9	3.27	2.9	3.27
1	1.48	1.25	0.38	0.375	1.25	0.37	3.27	–	3.27	–
1 1/4	1.48	1.25	0.38	0.375	1.25	0.37	–	3.77	–	3.77
1 1/2	1.48	1.25	0.38	0.375	1.25	0.37	3.77	–	3.77	–
1 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	4.27	–	4.27
2	1.48	1.25	0.38	0.375	1.25	0.37	4.27	–	4.27	–
2 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	5.27	–	5.27
3	1.48	1.25	0.38	0.375	1.25	0.37	5.27	–	5.27	–
3 3/4	1.48	1.25	0.38	0.375	1.25	0.37	–	6.27	–	6.27
4	1.48	1.25	0.38	0.375	1.25	0.37	6.27	–	6.27	–

1) L = Stroke

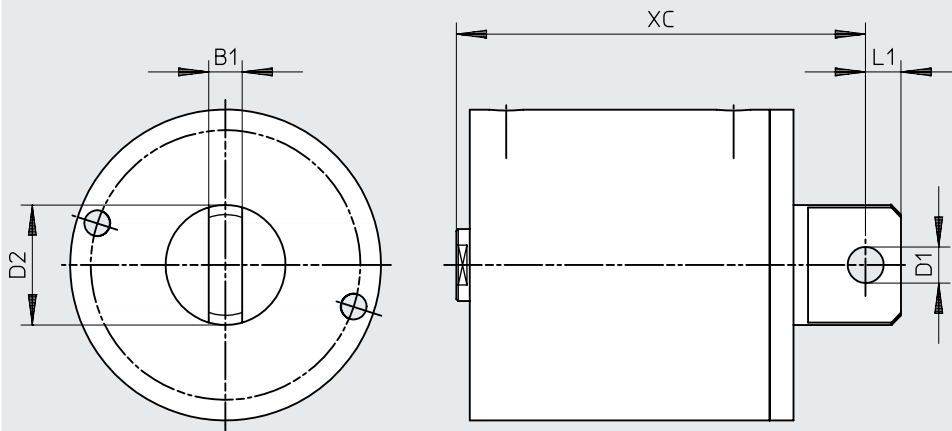
Datasheet

Dimensions – piston Ø 2

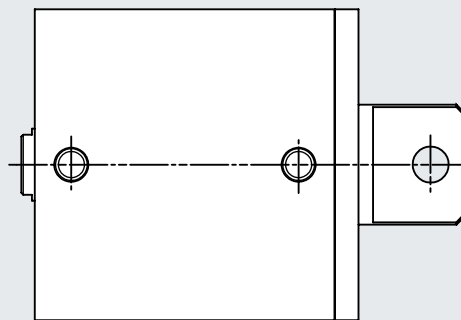
Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA - ... - ESM

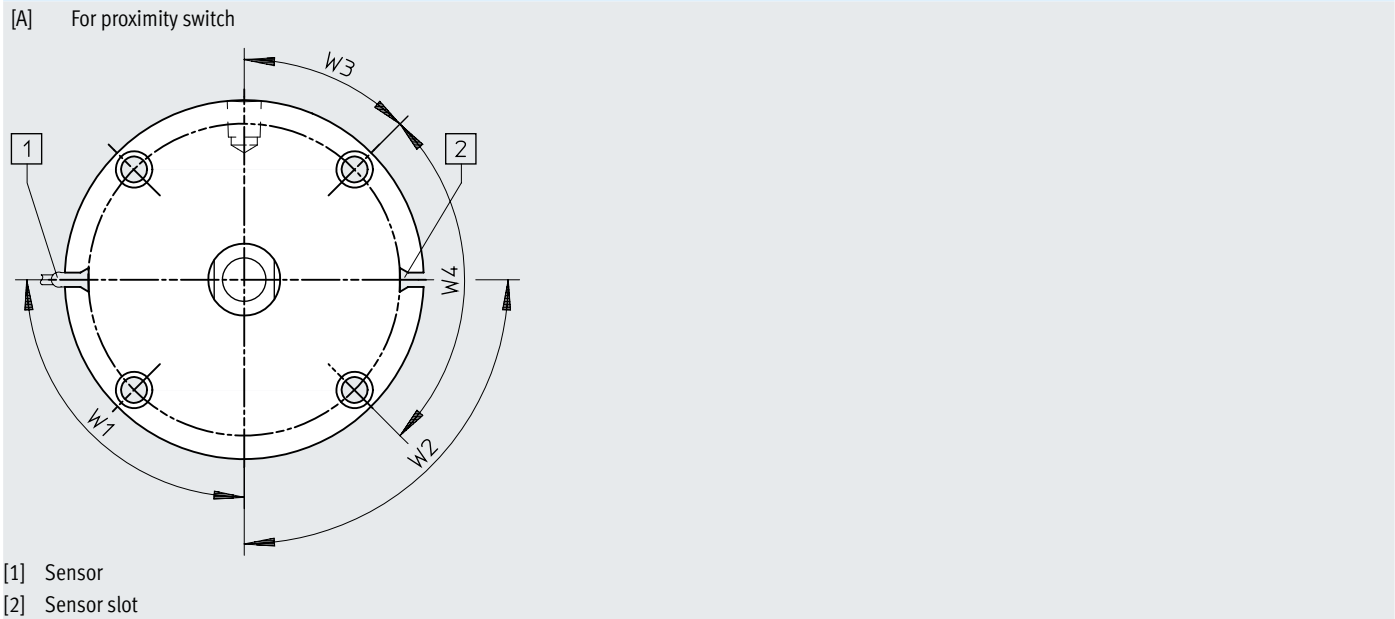


L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
								[L4]	[Q]	[Q-L4]
1/8	0.35	1.25	0.38	0.376	1.25	0.37	2.08	2.33	2.08	2.33
1/4	0.35	1.25	0.38	0.376	1.25	0.37	2.21	2.52	2.21	2.52
3/8	0.35	1.25	0.38	0.376	1.25	0.37	2.33	–	2.33	–
1/2	0.35	1.25	0.38	0.376	1.25	0.37	2.52	2.9	2.52	2.9
3/4	0.35	1.25	0.38	0.376	1.25	0.37	2.9	3.27	2.9	3.27
1	0.35	1.25	0.38	0.376	1.25	0.37	3.27	–	3.27	–
1 1/4	0.35	1.25	0.38	0.376	1.25	0.37	–	3.77	–	3.77
1 1/2	0.35	1.25	0.38	0.376	1.25	0.37	3.77	–	3.77	–
1 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	4.27	–	4.27
2	0.35	1.25	0.38	0.376	1.25	0.37	4.27	–	4.27	–
2 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	5.27	–	5.27
3	0.35	1.25	0.38	0.376	1.25	0.37	5.27	–	5.27	–
3 3/4	0.35	1.25	0.38	0.376	1.25	0.37	–	6.27	–	6.27
4	0.35	1.25	0.38	0.376	1.25	0.37	6.27	–	6.27	–

1) L = Stroke

Datasheet

Dinmensions – piston Ø 2 Download CAD data → www.festo.com



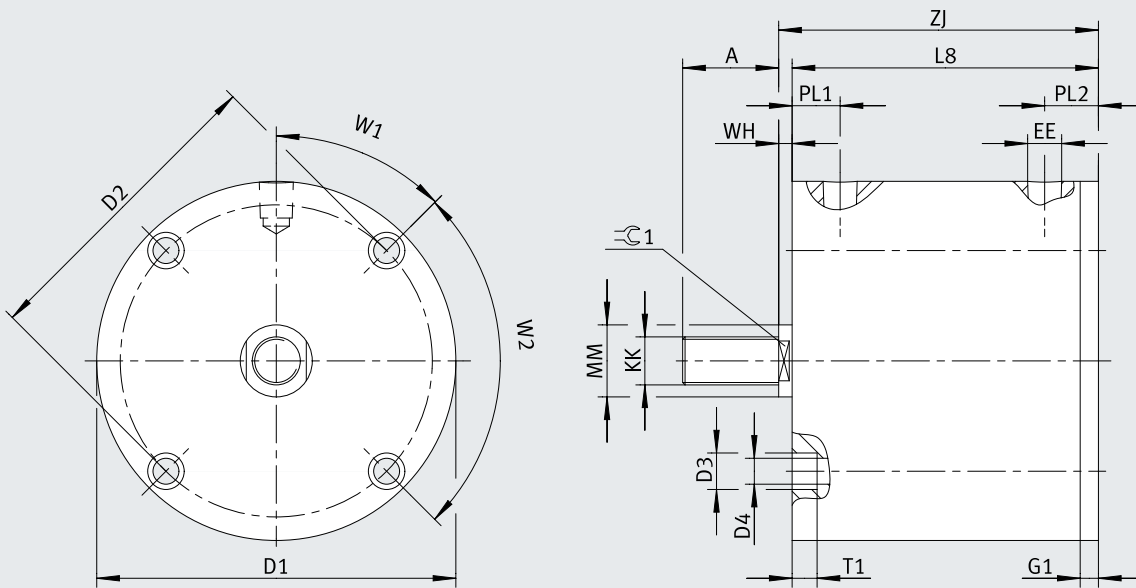
L ¹	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
1/8	–	2	–	2	35°	–	35°	–	35°	72°	–
1/4	2	2	2	2	35°	35°	35°	35°	35°	72°	–
3/8	2	–	2	–	35°	35°	–	35°	–	72°	–
1/2	2	2	2	2	35°	35°	35°	35°	35°	72°	–
3/4	2	2	2	2	35°	35°	35°	35°	35°	72°	–
1	2	–	2	–	35°	35°	–	35°	–	72°	–
1 1/4	–	2	–	1	35°	–	35°	–	35°	72°	–
1 1/2	1	–	1	–	35°	–	–	–	–	72°	–
1 3/4	–	1	–	1	35°	–	–	–	–	72°	–
2	1	–	1	–	35°	–	–	–	–	72°	–
2 3/4	–	1	–	1	35°	–	–	–	–	72°	–
3	1	–	1	–	35°	–	–	–	–	72°	–
3 3/4	–	1	–	1	35°	–	–	–	–	72°	–
4	1	–	1	–	35°	–	–	–	–	72°	–

1) L = Stroke
2) Sensor slot number

Datasheet

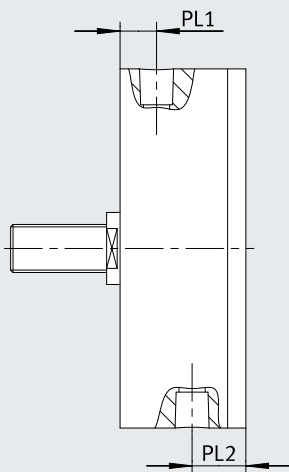
Dimensions – piston $\varnothing 2 \frac{1}{2}$ "

Download CAD data → www.festo.com



DPCA-...-1/8" ...1/4"

DPCA-...-Q-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1				KK	
							[N]		[L4]	[Q]	[Q-L4]		[N]
1/8	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
1	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1 1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
1 1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1 3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
2 3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
3	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
3 3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A

L ¹	L8				MM ø	PL1				PL2			
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		[L4]	[Q]	[Q-L4]
1/8	1.31	–	1.5	–	0.75	0.38	–	0.38	–	0.56	–	0.75	–
1/4	1.44	1.69	1.63	1.88	0.75	0.38	0.38	0.38	0.38	0.56	0.56	0.75	0.75
1/2	1.69	2.06	1.88	2.25	0.75	0.38	0.5	0.38	0.5	0.56	0.56	0.75	0.75
3/4	2.06	2.19	2.25	2.38	0.75	0.5	0.5	0.5	0.5	0.56	0.56	0.75	0.75
1	2.19	–	2.38	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
1 1/4	–	2.69	–	2.88	0.75	–	0.5	–	0.5	–	0.56	–	0.75
1 1/2	2.69	–	2.88	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
1 3/4	–	3.19	–	3.38	0.75	–	0.5	–	0.5	–	0.56	–	0.75
2	3.19	–	3.38	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
2 3/4	–	4.19	–	4.38	0.75	–	0.5	–	0.5	–	0.56	–	0.75
3	4.19	–	4.38	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
3 3/4	–	5.19	–	5.38	0.75	–	0.5	–	0.5	–	0.56	–	0.75
4	5.19	–	5.38	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–

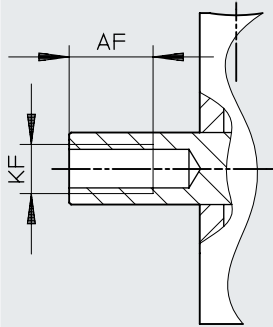
L ¹	T1	W1	W2	WH	ZJ				≈ 1
						[L4]	[Q]	[Q-L4]	
1/8	0.26	45°	90°	0.14	1.45	–	1.64	–	0.63
1/4	0.26	45°	90°	0.14	1.58	1.83	1.77	2.02	0.63
1/2	0.26	45°	90°	0.14	1.83	2.2	2.02	2.39	0.63
3/4	0.26	45°	90°	0.14	2.2	2.33	2.39	2.52	0.63
1	0.26	45°	90°	0.14	2.33	–	2.52	–	0.63
1 1/4	0.26	45°	90°	0.14	–	2.83	–	3.02	0.63
1 1/2	0.26	45°	90°	0.14	2.83	–	3.02	–	0.63
1 3/4	0.26	45°	90°	0.14	–	3.33	–	3.52	0.63
2	0.26	45°	90°	0.14	3.33	–	3.52	–	0.63
2 3/4	0.26	45°	90°	0.14	–	4.33	–	4.52	0.63
3	0.26	45°	90°	0.14	4.33	–	4.52	–	0.63
3 3/4	0.26	45°	90°	0.14	–	5.33	–	5.52	0.63
4	0.26	45°	90°	0.14	5.33	–	5.52	–	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2 \frac{1}{2}$ Download CAD data → www.festo.com

[F] Female thread



L ¹	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/8	0.56	–	0.56	–	M12	1/2-20 UNF-2B
1/4	0.63	0.63	0.63	0.63	M12	1/2-20 UNF-2B
1/2	0.63	0.88	0.63	0.88	M12	1/2-20 UNF-2B
3/4	0.88	0.88	0.88	0.88	M12	1/2-20 UNF-2B
1	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 1/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
1 1/2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
2 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
3	0.88	–	0.88	–	M12	1/2-20 UNF-2B
3 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
4	0.88	–	0.88	–	M12	1/2-20 UNF-2B

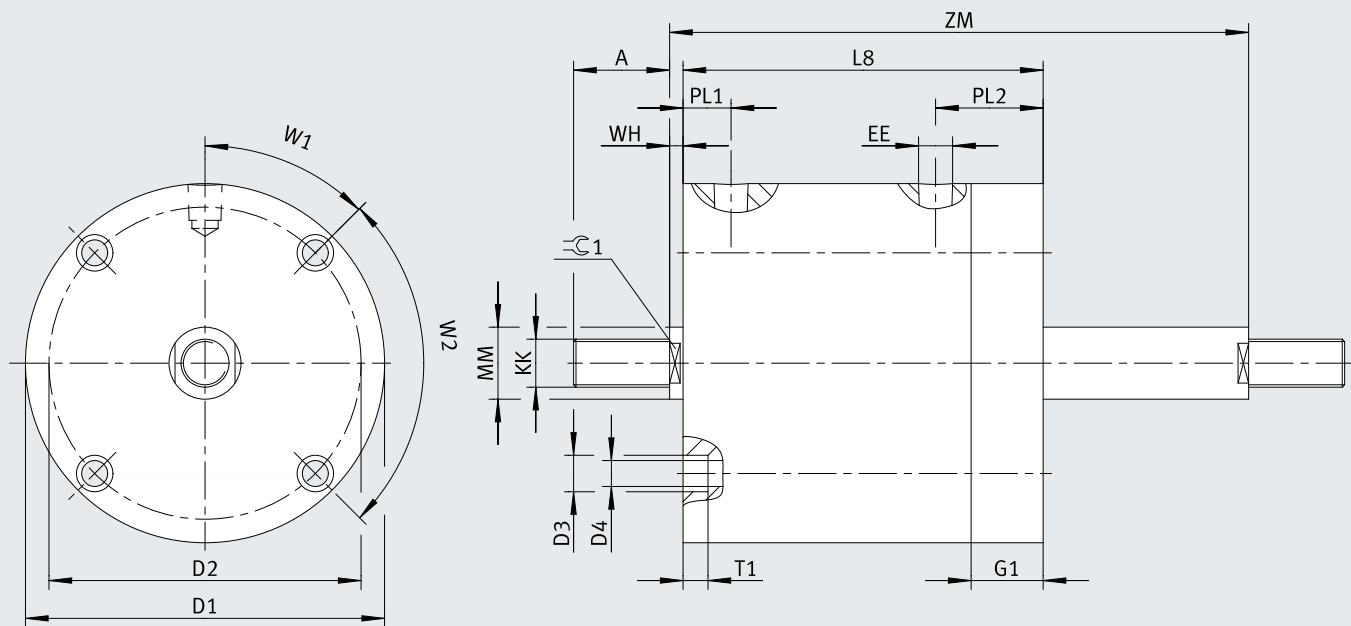
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2\frac{1}{2}$

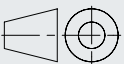
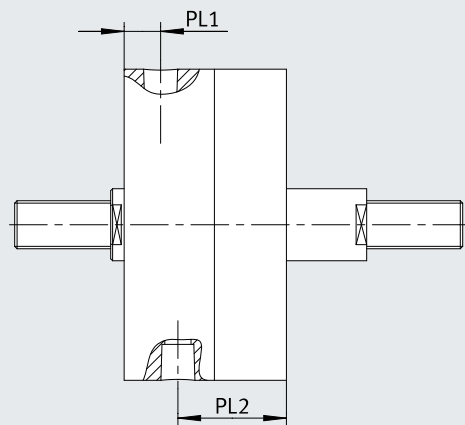
Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/8" ...1/4"

DPCA-...-Q-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1 1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A

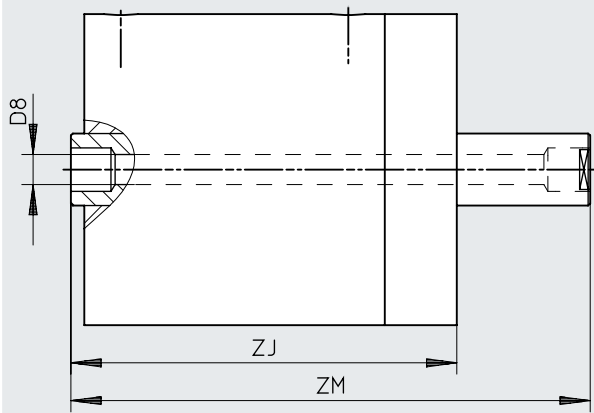
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈G 1
1/8	1.88	0.75	0.38	1.13	0.25	45°	90°	0.14	2.285	0.63
1/4	2	0.75	0.38	1.12	0.25	45°	90°	0.14	2.53	0.63
1/2	2.25	0.75	0.38	1.12	0.25	45°	90°	0.14	3.03	0.63
3/4	2.63	0.75	0.5	1.13	0.25	45°	90°	0.14	3.66	0.63
1	2.75	0.75	0.5	1.12	0.25	45°	90°	0.14	4.03	0.63
1 1/2	3.25	0.75	0.5	1.12	0.25	45°	90°	0.14	5.03	0.63
2	3.75	0.75	0.5	1.12	0.25	45°	90°	0.14	6.03	0.63
3	4.75	0.75	0.5	1.12	0.25	45°	90°	0.14	8.03	0.63
4	5.75	0.75	0.5	1.12	0.25	45°	90°	0.14	10.03	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2\frac{1}{2}$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



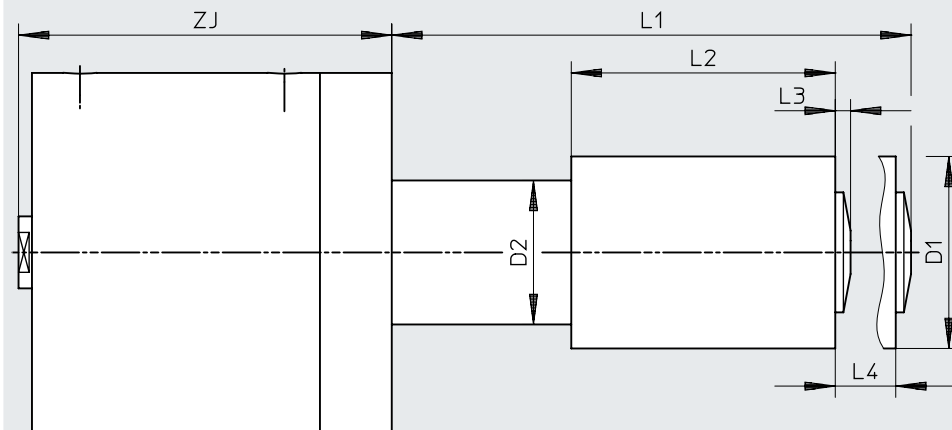
L ¹	D8 ø	ZJ	ZM
1/8	1/4	2.02	2.285
1/4	1/4	2.14	2.53
1/2	1/4	2.39	3.03
3/4	1/4	2.77	3.66
1	1/4	2.89	4.03
1 1/2	1/4	3.39	5.03
2	1/4	3.89	6.03
3	1/4	4.89	8.03
4	1/4	5.89	10.03

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2 \frac{1}{2}$ Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	2.02
1/4	2	1.5	1.91	1	0.16	0.63	2.14
1/2	2	1.5	2.41	1.25	0.16	0.63	2.39
3/4	2	1.5	2.91	1.5	0.16	0.63	2.77
1	2	1.5	3.41	1.75	0.16	0.63	2.89
1 1/2	2	1.5	4.41	2.25	0.16	0.63	3.39
2	2	1.5	5.41	2.75	0.16	0.63	3.89
3	2	1.5	7.41	3.75	0.16	0.63	4.89
4	2	1.5	9.41	4.75	0.16	0.63	5.89

1) L = Stroke

Datasheet

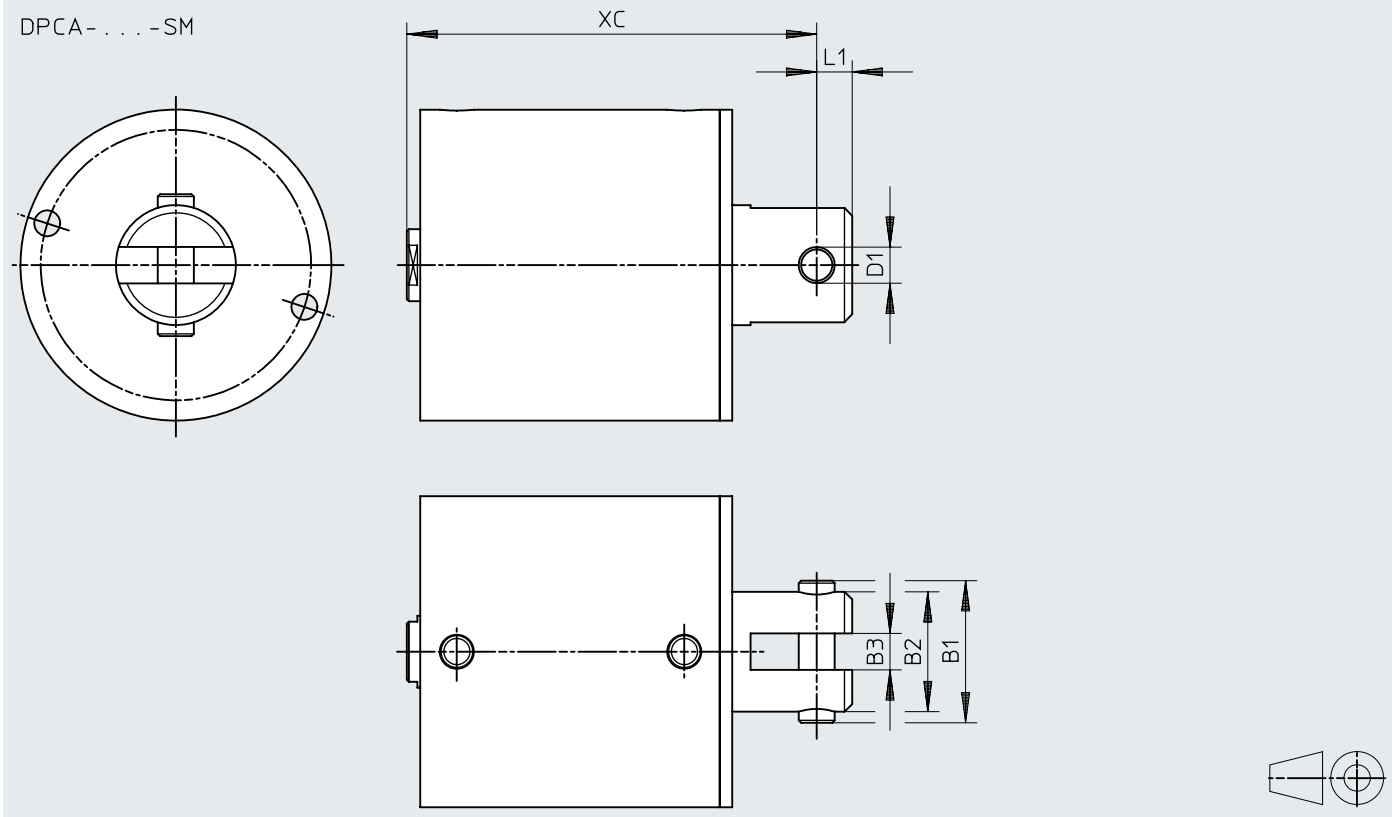
Dimensions – piston $\varnothing 2\frac{1}{2}$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA – . . . – SM



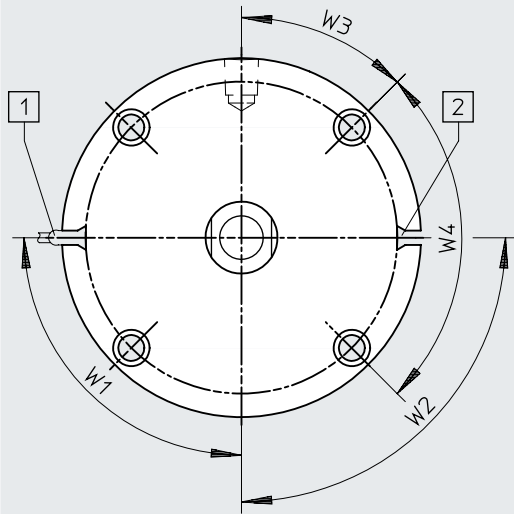
L ¹	B1	B2	B3	D1 Ø	L1	XC			
							[L4]	[Q]	[Q-L4]
1/8	1.86	1.63	0.5	0.5	0.5	2.64	–	2.64	–
1/4	1.86	1.63	0.5	0.5	0.5	2.77	3.02	2.77	3.02
1/2	1.86	1.63	0.5	0.5	0.5	3.02	3.39	3.02	3.39
3/4	1.86	1.63	0.5	0.5	0.5	3.39	3.52	3.39	3.52
1	1.86	1.63	0.5	0.5	0.5	3.52	–	3.52	–
1 1/4	1.86	1.63	0.5	0.5	0.5	–	4.02	–	4.02
1 1/2	1.86	1.63	0.5	0.5	0.5	4.02	–	4.02	–
1 3/4	1.86	1.63	0.5	0.5	0.5	–	4.52	–	4.52
2	1.86	1.63	0.5	0.5	0.5	4.52	–	4.52	–
2 3/4	1.86	1.63	0.5	0.5	0.5	–	5.52	–	5.52
3	1.86	1.63	0.5	0.5	0.5	5.52	–	5.52	–
3 3/4	1.86	1.63	0.5	0.5	0.5	–	6.52	–	6.52
4	1.86	1.63	0.5	0.5	0.5	6.52	–	6.52	–

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2\frac{1}{2}$ Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
1/4	2	2	2	2	90°	90°	90°	90°	90°	45°	90°
1/2	2	2	2	2	90°	90°	90°	90°	90°	45°	90°
3/4	2	2	2	2	90°	90°	90°	90°	90°	45°	90°
1	2	–	2	–	90°	90°	–	90°	–	45°	90°
1 1/4	–	1	–	1	90°	–	–	–	–	45°	90°
1 1/2	1	–	1	–	90°	–	–	–	–	45°	90°
1 3/4	–	1	–	1	90°	–	–	–	–	45°	90°
2	1	–	1	–	90°	–	–	–	–	45°	90°
2 3/4	–	1	–	1	90°	–	–	–	–	45°	90°
3	1	–	1	–	90°	–	–	–	–	45°	90°
3 3/4	–	1	–	1	90°	–	–	–	–	45°	90°
4	1	–	1	–	90°	–	–	–	–	45°	90°

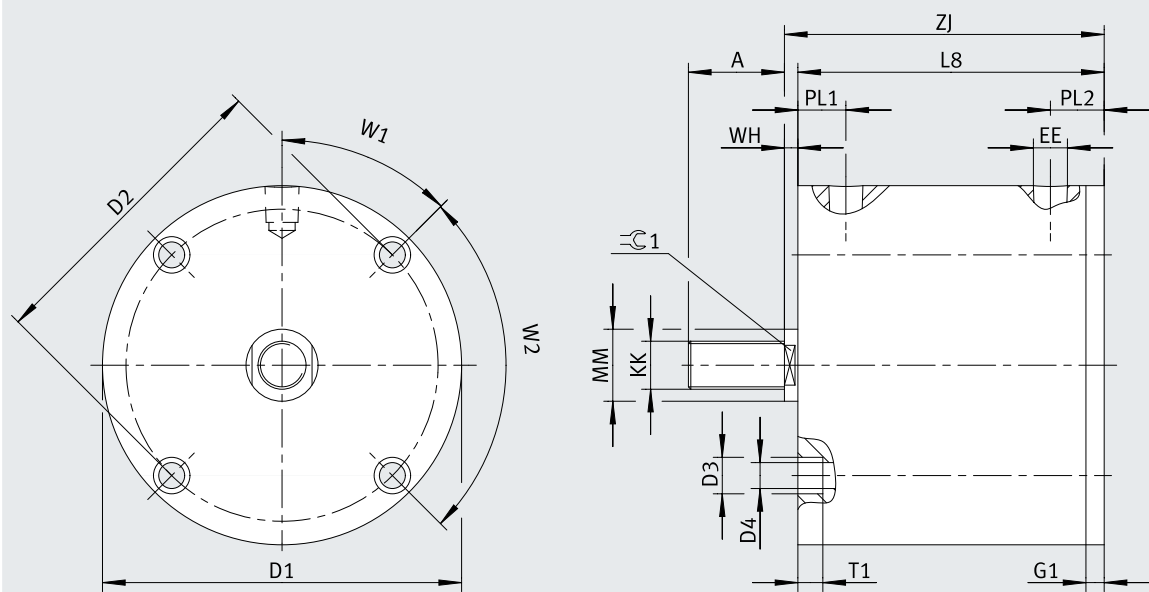
1) L = Stroke

2) Sensor slot number

Datasheet

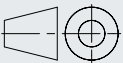
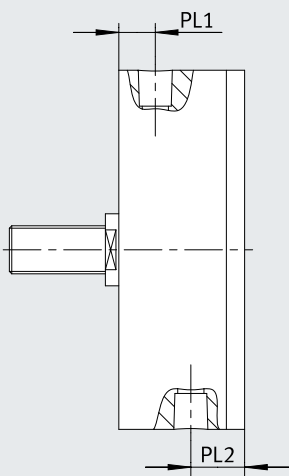
Dimensions – piston $\varnothing 3$

Download CAD data → www.festo.com



DPCA-...-1/8" ...1/4"

DPCA-...-Q-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1				KK	
							[N]		[L4]	[Q]	[Q-L4]		[N]
1/8	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.19	0.38	0.38	M12	1/2-20 UNF-2A
1	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1 1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
1 1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
1 3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
2 3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
3	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A
3 3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	–	0.19	–	0.38	M12	1/2-20 UNF-2A
4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	0.38	–	M12	1/2-20 UNF-2A

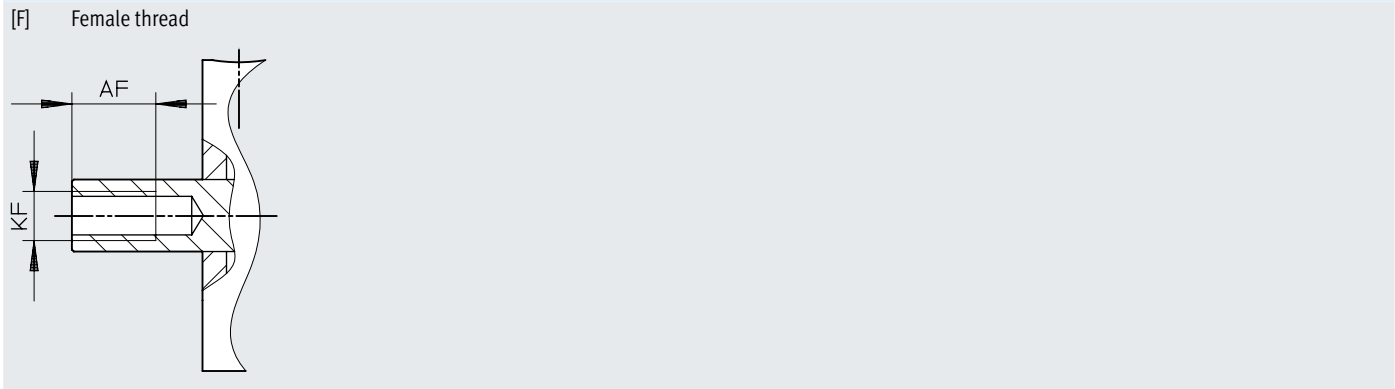
L ¹	L8				MM ø	PL1				PL2			
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		[L4]	[Q]	[Q-L4]
1/8	1.38	–	1.75	–	0.75	0.38	–	0.38	–	0.57	–	0.76	–
1/4	1.5	1.75	1.69	1.94	0.75	0.38	0.38	0.38	0.38	0.56	0.56	0.75	0.75
1/2	1.75	2	1.94	2.19	0.75	0.38	0.5	0.38	0.5	0.56	0.56	0.75	0.75
3/4	2	2.25	2.19	2.44	0.75	0.5	0.5	0.5	0.5	0.56	0.56	0.75	0.75
1	2.25	–	2.44	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
1 1/4	–	2.75	–	2.94	0.75	–	0.5	–	0.5	–	0.56	–	0.75
1 1/2	2.75	–	2.94	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
1 3/4	–	3.25	–	3.44	0.75	–	0.5	–	0.5	–	0.56	–	0.75
2	3.25	–	3.44	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
2 3/4	–	4.25	–	4.44	0.75	–	0.5	–	0.5	–	0.56	–	0.75
3	4.25	–	4.44	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–
3 3/4	–	5.25	–	5.44	0.75	–	0.5	–	0.5	–	0.56	–	0.75
4	5.25	–	5.44	–	0.75	0.5	–	0.5	–	0.56	–	0.75	–

L ¹	T1	W1	W2	WH	ZJ				≈G 1
						[L4]	[Q]	[Q-L4]	
1/8	0.26	45°	90°	0.14	1.52	–	1.71	–	0.63
1/4	0.26	45°	90°	0.14	1.64	1.89	1.83	2.08	0.63
1/2	0.26	45°	90°	0.14	1.89	2.14	2.08	2.33	0.63
3/4	0.26	45°	90°	0.14	2.14	2.39	2.33	2.58	0.63
1	0.26	45°	90°	0.14	2.39	–	2.58	–	0.63
1 1/4	0.26	45°	90°	0.14	–	2.89	–	3.08	0.63
1 1/2	0.26	45°	90°	0.14	2.89	–	3.08	–	0.63
1 3/4	0.26	45°	90°	0.14	–	3.39	–	3.58	0.63
2	0.26	45°	90°	0.14	3.39	–	3.58	–	0.63
2 3/4	0.26	45°	90°	0.14	–	4.39	–	4.58	0.63
3	0.26	45°	90°	0.14	4.39	–	4.58	–	0.63
3 3/4	0.26	45°	90°	0.14	–	5.39	–	5.58	0.63
4	0.26	45°	90°	0.14	5.39	–	5.58	–	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com



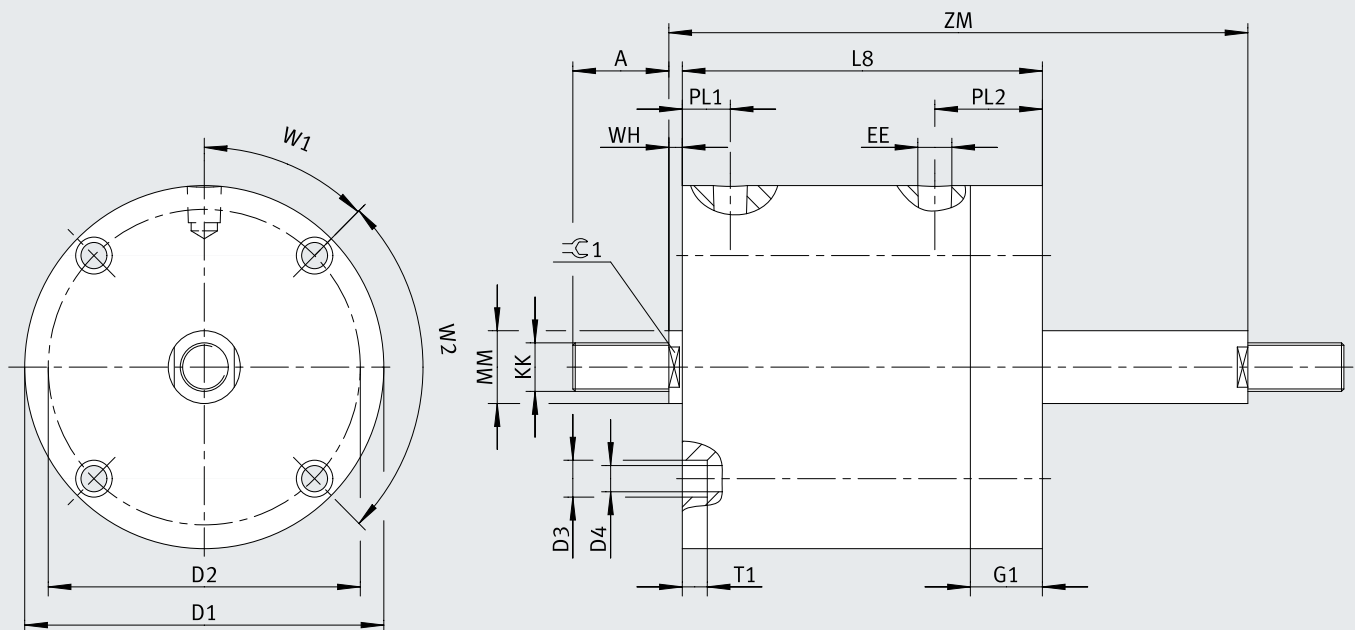
L ¹	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/8	0.63	–	0.63	–	M12	1/2-20 UNF-2B
1/4	0.63	0.63	0.63	0.63	M12	1/2-20 UNF-2B
1/2	0.63	0.88	0.63	0.88	M12	1/2-20 UNF-2B
3/4	0.88	0.88	0.88	0.88	M12	1/2-20 UNF-2B
1	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 1/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
1 1/2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
1 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
2	0.88	–	0.88	–	M12	1/2-20 UNF-2B
2 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
3	0.88	–	0.88	–	M12	1/2-20 UNF-2B
3 3/4	–	0.88	–	0.88	M12	1/2-20 UNF-2B
4	0.88	–	0.88	–	M12	1/2-20 UNF-2B

1) L = Stroke

Datasheet

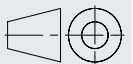
Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/8" ... 1/4"

DPCA-...-Q-...-1/8" ... 1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
1 1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
3	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A
4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	M12	1/2-20 UNF-2A

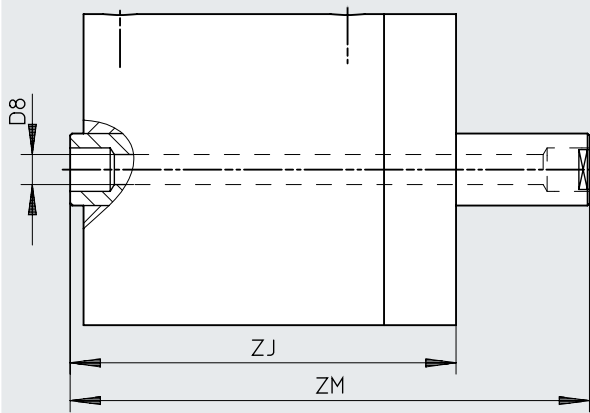
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈G 1
1/8	1.94	0.75	0.38	1.13	0.26	45°	90°	0.14	2.345	0.63
1/4	2.06	0.75	0.38	1.12	0.26	45°	90°	0.14	2.59	0.63
1/2	2.31	0.75	0.38	1.12	0.21	45°	90°	0.14	3.09	0.63
3/4	2.56	0.75	0.5	1.12	0.26	45°	90°	0.14	3.59	0.63
1	2.81	0.75	0.5	1.12	0.26	45°	90°	0.14	4.09	0.63
1 1/2	3.31	0.75	0.5	1.12	0.21	45°	90°	0.14	5.09	0.63
2	3.81	0.75	0.5	1.12	0.26	45°	90°	0.14	6.09	0.63
3	4.81	0.75	0.5	1.12	0.26	45°	90°	0.14	8.09	0.63
4	5.81	0.75	0.5	1.12	0.26	45°	90°	0.14	10.09	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[H] Through, hollow piston rod

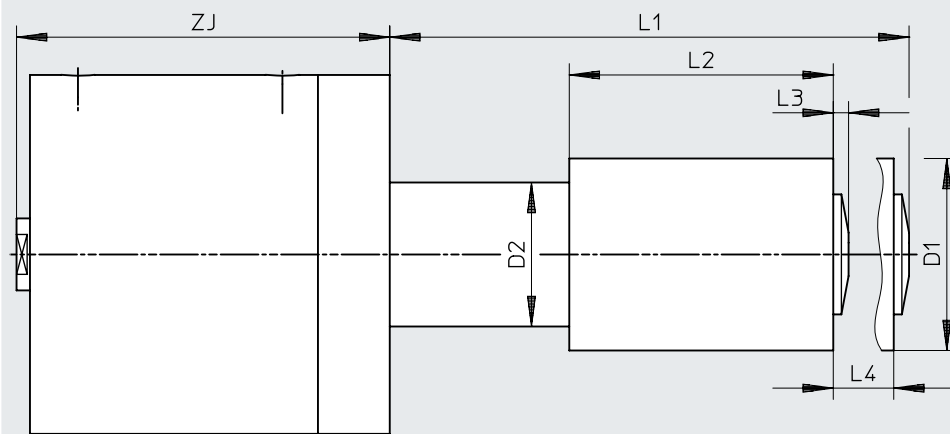


L ¹	D8 $\varnothing$	ZJ	ZM
1/8	1/4	2.08	2.345
1/4	1/4	2.2	2.59
1/2	1/4	2.45	3.09
3/4	1/4	2.7	3.59
1	1/4	2.95	4.09
1 1/2	1/4	3.45	5.09
2	1/4	3.95	6.09
3	1/4	4.95	8.09
4	1/4	5.95	10.09

1) L = Stroke

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 $\varnothing$	D2 $\varnothing$	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	2.08
1/4	2	1.5	1.91	1	0.16	0.63	2.2
1/2	2	1.5	2.41	1.25	0.16	0.63	2.45
3/4	2	1.5	2.91	1.5	0.16	0.63	2.7
1	2	1.5	3.41	1.75	0.16	0.63	2.95
1 1/2	2	1.5	4.41	2.25	0.16	0.63	3.45
2	2	1.5	5.41	2.75	0.16	0.63	3.95
3	2	1.5	7.41	3.75	0.16	0.63	4.95
4	2	1.5	9.41	4.75	0.16	0.63	5.95

1) L = Stroke

Datasheet

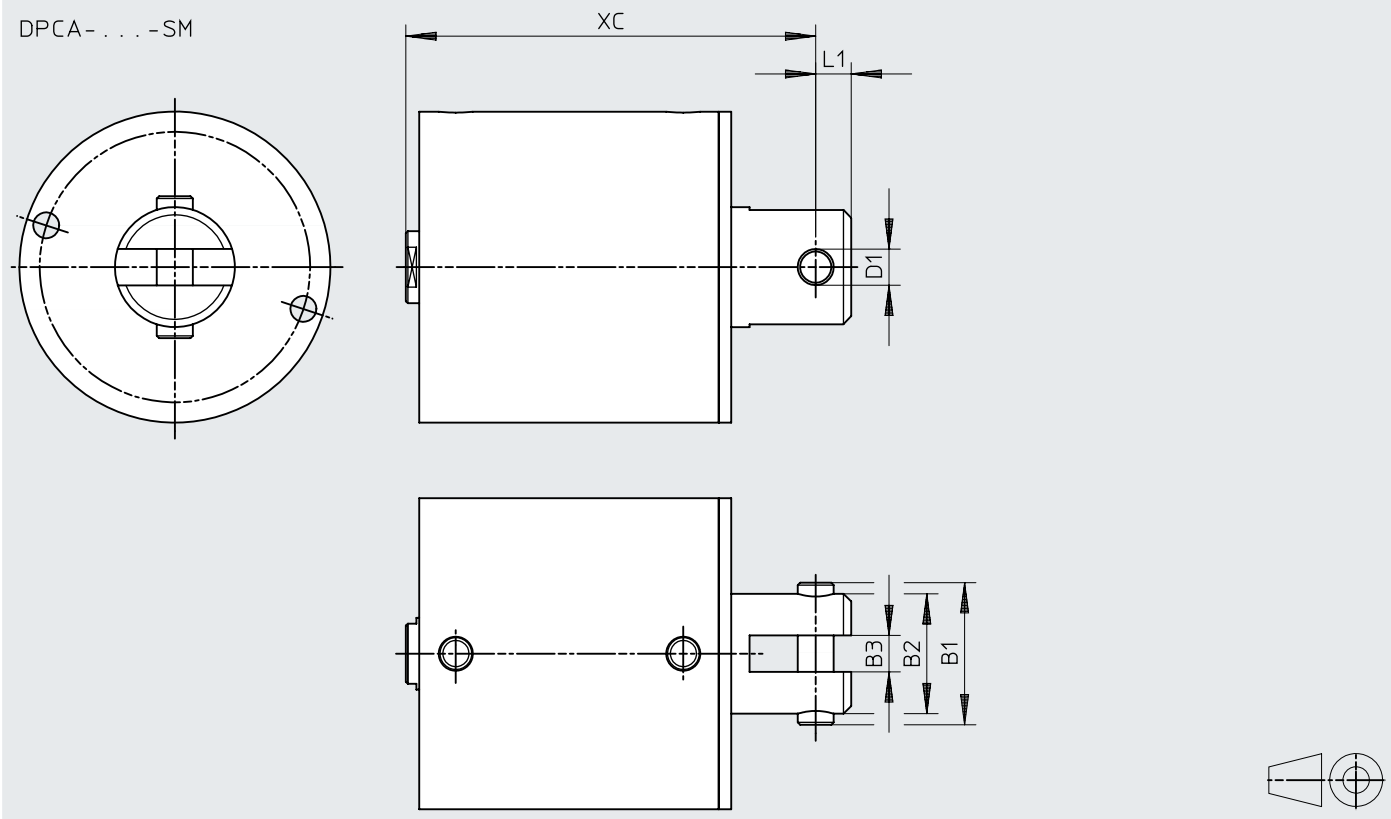
Dimensions – piston $\varnothing 3$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA – . . . – SM



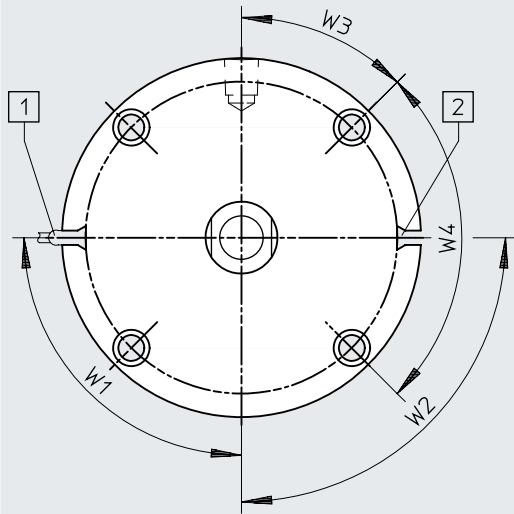
L ¹	B1	B2	B3	D1 ø	L1	XC			
							[L4]	[Q]	[Q-L4]
1/8	1.86	1.63	0.5	0.5	0.5	2.71	–	2.71	–
1/4	1.86	1.63	0.5	0.5	0.5	2.83	3.08	2.83	3.08
1/2	1.86	1.63	0.5	0.5	0.5	3.08	3.33	3.08	3.33
3/4	1.86	1.63	0.5	0.5	0.5	3.33	3.58	3.33	3.58
1	1.86	1.63	0.5	0.5	0.5	3.58	–	3.58	–
1 1/4	1.86	1.63	0.5	0.5	0.5	–	4.08	–	4.08
1 1/2	1.86	1.63	0.5	0.5	0.5	4.08	–	4.08	–
1 3/4	1.86	1.63	0.5	0.5	0.5	–	4.58	–	4.58
2	1.86	1.63	0.5	0.5	0.5	4.58	–	4.58	–
2 3/4	1.86	1.63	0.5	0.5	0.5	–	5.58	–	5.58
3	1.86	1.63	0.5	0.5	0.5	5.58	–	5.58	–
3 3/4	1.86	1.63	0.5	0.5	0.5	–	6.58	–	6.58
4	1.86	1.63	0.5	0.5	0.5	6.58	–	6.58	–

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

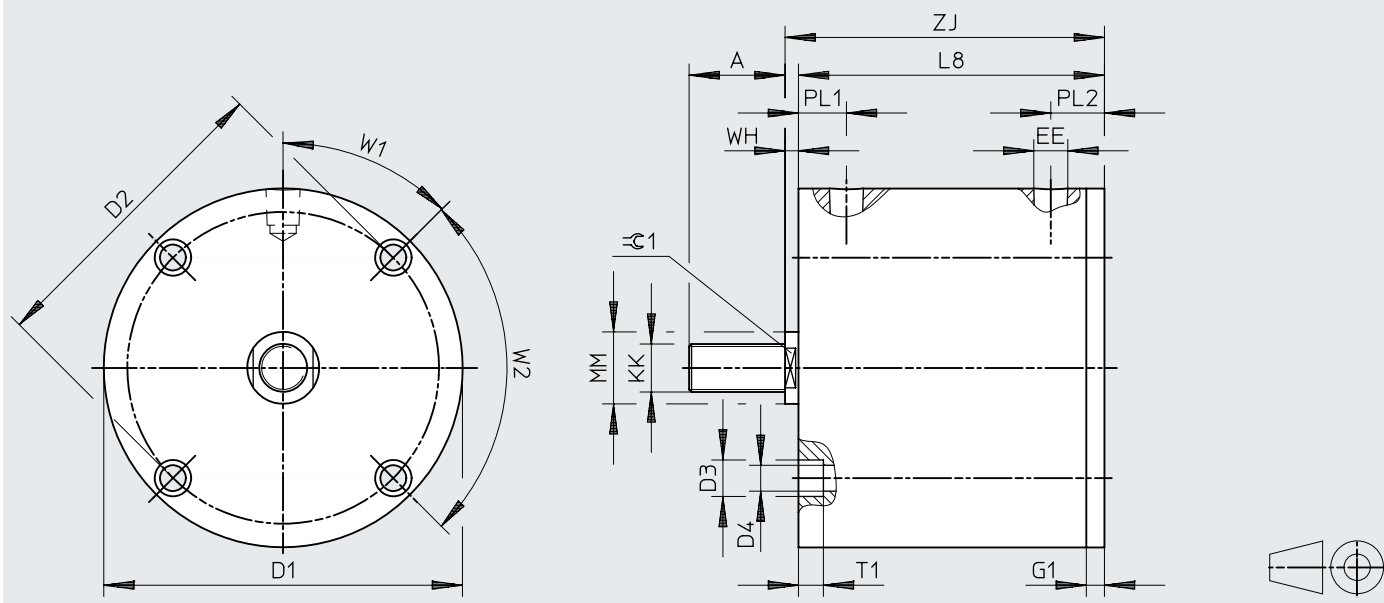
[2] Sensor slot

L ¹	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
1/4	2	2	2	2	30°	30°	30°	30°	30°	45°	90°
1/2	2	2	2	2	30°	30°	30°	30°	30°	45°	90°
3/4	2	2	2	2	30°	30°	30°	30°	30°	45°	90°
1	2	–	2	–	30°	30°	–	30°	–	45°	90°
1 1/4	–	1	–	1	30°	–	–	–	–	45°	90°
1 1/2	1	–	1	–	30°	–	–	–	–	45°	90°
1 3/4	–	1	–	1	30°	–	–	–	–	45°	90°
2	1	–	1	–	30°	–	–	–	–	45°	90°
2 3/4	–	1	–	1	30°	–	–	–	–	45°	90°
3	1	–	1	–	30°	–	–	–	–	45°	90°
3 3/4	–	1	–	1	30°	–	–	–	–	45°	90°
4	1	–	1	–	30°	–	–	–	–	45°	90°

1) L = Stroke

2) Sensor slot number

Datasheet

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1				KK	
							[N]		[L4]	[Q]	[Q-L4]		[N]
1/8	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
1/4	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
5/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
1/2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
1 3/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
1	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
1 5/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
1 1/2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
1 13/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
2 13/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
3	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A
3 13/16	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	–	0.31	–	0.5	M16	5/8-18 UNF-2A
4	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.31	–	0.5	–	M16	5/8-18 UNF-2A

L ¹	L8				MM ø	PL1				PL2			
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		[L4]	[Q]	[Q-L4]
1/8	1.69	–	1.88	–	0.88	0.38	–	0.38	–	0.69	–	0.88	–
1/4	1.82	–	2.01	–	0.88	0.38	–	0.38	–	0.69	–	0.88	–
5/16	–	2.07	–	2.26	0.88	–	0.5	–	0.5	–	0.69	–	0.88
1/2	2.07	–	2.26	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–
1 3/16	–	2.57	–	2.76	0.88	–	0.5	–	0.5	–	0.69	–	0.88
1	2.57	–	2.76	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–
1 5/16	–	3.07	–	3.26	0.88	–	0.5	–	0.5	–	0.69	–	0.88
1 1/2	3.07	–	3.26	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–
1 13/16	–	3.57	–	3.76	0.88	–	0.5	–	0.5	–	0.69	–	0.88
2	3.57	–	3.76	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–
2 13/16	–	4.57	–	4.76	0.88	–	0.5	–	0.5	–	0.69	–	0.88
3	4.57	–	4.76	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–
3 13/16	–	5.57	–	5.76	0.88	–	0.5	–	0.5	–	0.69	–	0.88
4	5.57	–	5.76	–	0.88	0.5	–	0.5	–	0.69	–	0.88	–

Datasheet

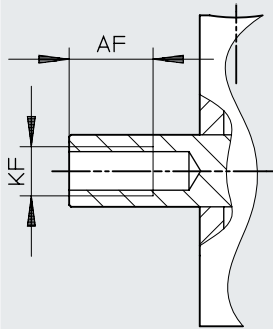
L ¹	T1	W1	W2	WH	ZJ				≈ 1
						[L4]	[Q]	[Q-L4]	
1/8	0.26	45°	90°	0.2	1.89	–	2.08	–	0.75
1/4	0.26	45°	90°	0.2	2.02	–	2.21	–	0.75
5/16	0.26	45°	90°	0.2	–	2.27	–	2.46	0.75
1/2	0.26	45°	90°	0.2	2.27	–	2.46	–	0.75
1 3/16	0.26	45°	90°	0.2	–	2.77	–	2.96	0.75
1	0.26	45°	90°	0.2	2.77	–	2.96	–	0.75
1 5/16	0.26	45°	90°	0.2	–	3.27	–	3.46	0.75
1 1/2	0.26	45°	90°	0.2	3.27	–	3.46	–	0.75
1 1 3/16	0.26	45°	90°	0.2	–	3.77	–	3.96	0.75
2	0.26	45°	90°	0.2	3.77	–	3.96	–	0.75
2 1 3/16	0.26	45°	90°	0.2	–	4.77	–	4.96	0.75
3	0.26	45°	90°	0.2	4.77	–	4.96	–	0.75
3 1 3/16	0.26	45°	90°	0.2	–	5.77	–	5.96	0.75
4	0.26	45°	90°	0.2	5.77	–	5.96	–	0.75

1) L = Stroke

Dimensions – piston Ø 4

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[F] Female thread



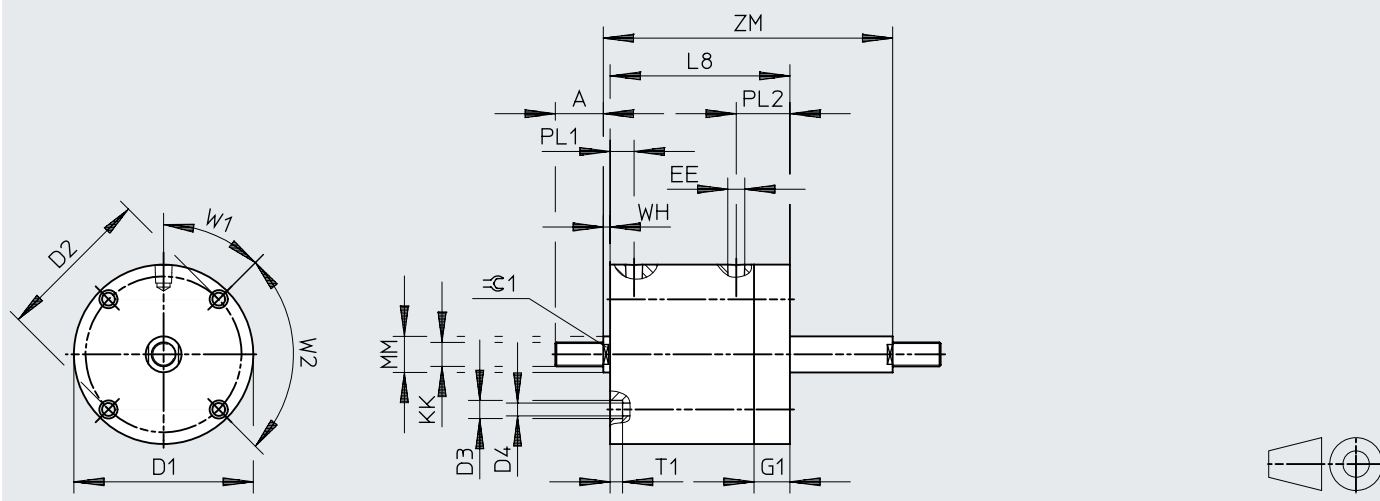
L ¹	AF	AF	AF	AF	KF	
		[L4]	[Q]	[Q-L4]		[N]
1/8	0.5	–	0.5	–	M16	5/8-18 UNF-2B
1/4	0.5	–	0.5	–	M16	5/8-18 UNF-2B
5/16	–	0.75	–	0.75	M16	5/8-18 UNF-2B
1/2	0.75	–	0.75	–	M16	5/8-18 UNF-2B
1 3/16	–	0.88	–	0.88	M16	5/8-18 UNF-2B
1	0.88	–	0.88	–	M16	5/8-18 UNF-2B
1 5/16	–	0.88	–	0.88	M16	5/8-18 UNF-2B
1 1/2	0.88	–	0.88	–	M16	5/8-18 UNF-2B
1 13/16	–	0.88	–	0.88	M16	5/8-18 UNF-2B
2	0.88	–	0.88	–	M16	5/8-18 UNF-2B
2 13/16	–	0.88	–	0.88	M16	5/8-18 UNF-2B
3	0.88	–	0.88	–	M16	5/8-18 UNF-2B
3 13/16	–	0.88	–	0.88	M16	5/8-18 UNF-2B
4	0.88	–	0.88	–	M16	5/8-18 UNF-2B

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

[T] Through piston rod



L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
1/4	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
1/2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
1	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
1 1/2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
2	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
3	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A
4	1.25	5.5	5	0.38	0.27	G1/8	1/8 NPT	0.75	M16	5/8-18 UNF-2A

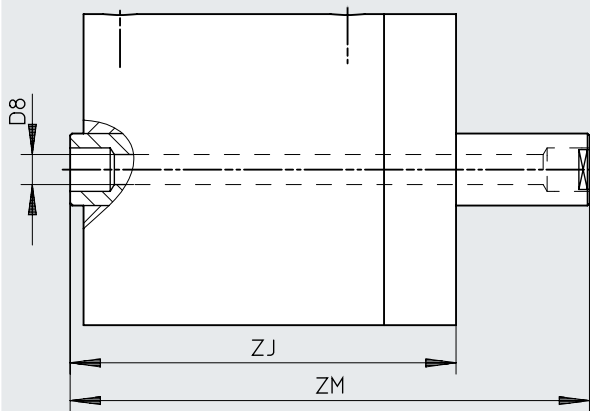
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	2.13	0.88	0.38	1.13	0.26	45°	90°	0.2	2.655	0.75
1/4	2.25	0.88	0.38	1.12	0.25	45°	90°	0.2	2.9	0.75
1/2	2.5	0.88	0.5	1.12	0.25	45°	90°	0.2	3.4	0.75
1	3	0.88	0.5	1.12	0.25	45°	90°	0.2	4.4	0.75
1 1/2	3.5	0.88	0.5	1.12	0.25	45°	90°	0.2	5.4	0.75
2	4	0.88	0.5	1.12	0.25	45°	90°	0.2	6.4	0.75
3	5	0.88	0.5	1.12	0.25	45°	90°	0.2	8.4	0.75
4	6	0.88	0.5	1.12	0.25	45°	90°	0.2	10.4	0.75

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

[H] Through, hollow piston rod

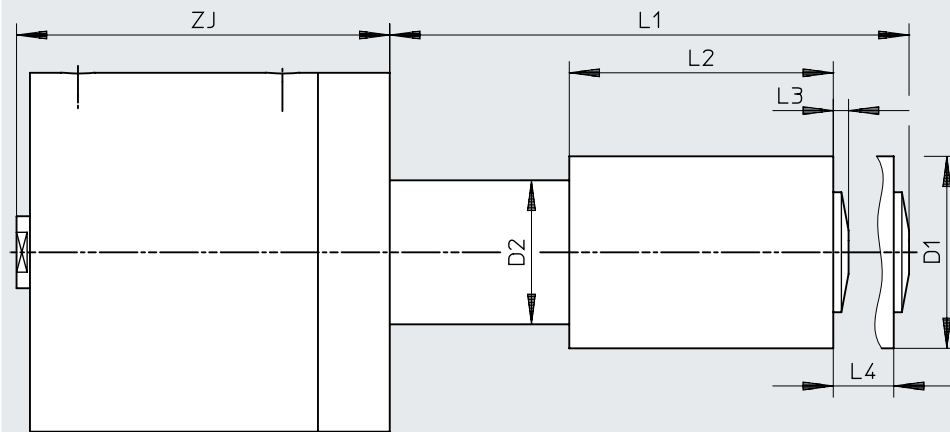


L ¹	D8 $\varnothing$	ZJ	ZM
1/8	1/4	2.33	2.655
1/4	1/4	2.45	2.9
1/2	1/4	2.7	3.4
1	1/4	3.2	4.4
1 1/2	1/4	3.7	5.4
2	1/4	4.2	6.4
3	1/4	5.2	8.4
4	1/4	6.2	10.4

1) L = Stroke

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

[E] Stroke adjustment



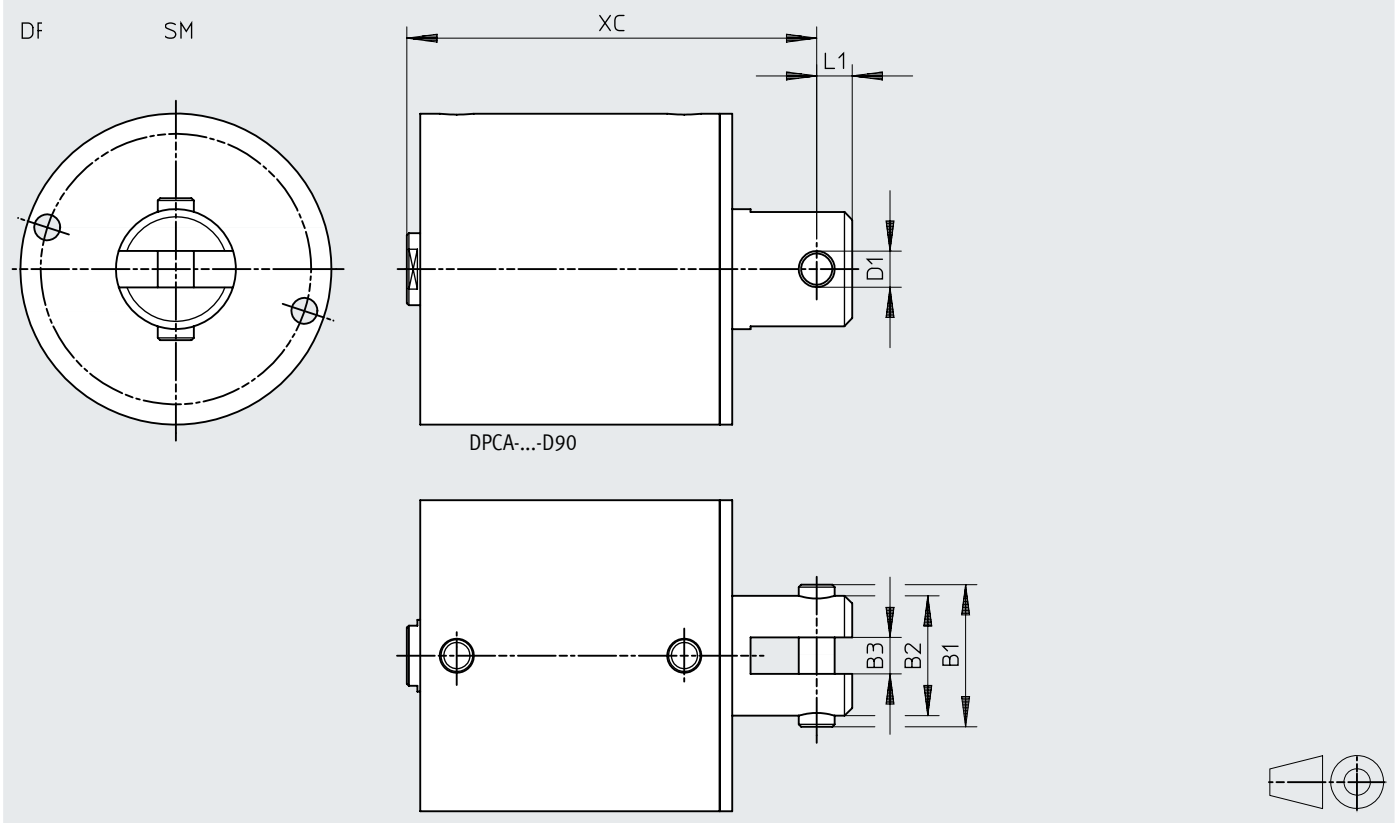
L ¹	D1 $\varnothing$	D2 $\varnothing$	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.66	0.88	0.15	0.63	2.33
1/4	2	1.5	1.91	1	0.16	0.63	2.45
1/2	2	1.5	2.41	1.25	0.16	0.63	2.7
1	2	1.5	3.41	1.75	0.16	0.63	3.2
1 1/2	2	1.5	4.41	2.25	0.16	0.63	3.7
2	2	1.5	5.41	2.75	0.16	0.63	4.2
3	2	1.5	7.41	3.75	0.16	0.63	5.2
4	2	1.5	9.41	4.75	0.16	0.63	6.2

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

[D] With swivel clevis
[D90] With swivel clevis, rotated 90°



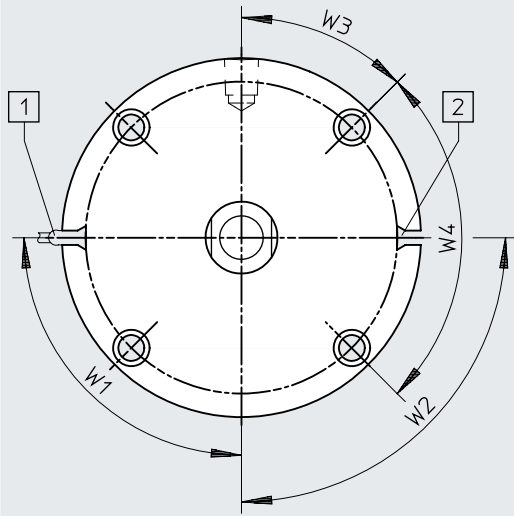
L ¹	B1	B2	B3	D1 ø	L1	XC			
							[L4]	[Q]	[Q-L4]
1/8	2.24	2	0.63	0.625	0.63	3.33	–	3.52	–
1/4	2.24	2	0.63	0.625	0.63	3.46	–	3.65	–
5/16	2.24	2	0.63	0.625	0.63	–	3.71	–	3.9
1/2	2.24	2	0.63	0.625	0.63	3.71	–	3.9	–
13/16	2.24	2	0.63	0.625	0.63	–	4.21	–	4.4
1	2.24	2	0.63	0.625	0.63	4.21	–	4.4	–
1 5/16	2.24	2	0.63	0.625	0.63	–	4.71	–	4.9
1 1/2	2.24	2	0.63	0.625	0.63	4.71	–	4.9	–
1 13/16	2.24	2	0.63	0.625	0.63	–	5.21	–	5.4
2	2.24	2	0.63	0.625	0.63	5.21	–	5.4	–
2 13/16	2.24	2	0.63	0.625	0.63	–	6.21	–	6.4
3	2.24	2	0.63	0.625	0.63	6.21	–	6.4	–
3 13/16	2.24	2	0.63	0.625	0.63	–	7.21	–	7.4
4	2.24	2	0.63	0.625	0.63	7.21	–	7.4	–

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 4$ Download CAD data → www.festo.com

[A] For proximity switch



[1] Sensor

[2] Sensor slot

L ¹	2)				W1	W2				W3	W4
		[L4]	[Q]	[Q-L4]			[L4]	[Q]	[Q-L4]		
1/4	2	–	2	–	30°	30°	–	30°	–	45°	90°
5/16	–	2	–	2	30°	–	30°	–	30°	45°	90°
1/2	2	–	2	–	30°	30°	–	30°	–	45°	90°
1 3/16	–	2	–	2	30°	–	30°	–	30°	45°	90°
1	2	–	2	–	30°	30°	–	30°	–	45°	90°
1 5/16	–	1	–	1	30°	–	–	–	–	45°	90°
1 1/2	1	–	1	–	30°	–	–	–	–	45°	90°
1 13/16	–	1	–	1	30°	–	–	–	–	45°	90°
2	1	–	1	–	30°	–	–	–	–	45°	90°
2 13/16	–	1	–	1	30°	–	–	–	–	45°	90°
3	1	–	1	–	30°	–	–	–	–	45°	90°
3 13/16	–	1	–	1	30°	–	–	–	–	45°	90°
4	1	–	1	–	30°	–	–	–	–	45°	90°

1) L = Stroke

2) Sensor slot number

Ordering data – Modular product system

Ordering table												
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4	Conditions	Code		Enter code
Module no.	8104871	8104872	8104873	8104874	8104875	8104876	8104877	8104878				
Function	Compact cylinder, double-acting									DPCA		DPCA
System of units	Metric											
	Imperial									-N		
Protection against rotation	Without											
	–	With protection against rotation							[1]	-Q		
Running characteristics	Standard											
	Additional PTFE piston guide								[2]	L4		
Piston Ø	1/2"	3/4"	1 1/8"	1 5/8"	2"	2 1/2"	3"	4"		-..."		
Stroke												
1/16"	1)	1)	2)	–	–	–	–	–		-1/16"		
1/8"				1)		1)	1)	1)		-1/8"		
3/16"	–	–	1)	–	–	–	–	–		-3/16"		
1/4"			1)					1)		-1/4"		
5/16"	–	–	–	–	–	–	–	2)		-5/16"		
3/8"			2)	–	1)	–	–	–		-3/8"		
1/2"			1)					1)		-1/2"		
5/8"			2)	–	–	–	–	–		-5/8"		
3/4"	1)	1)	1)					–		-3/4"		
1 3/16"	–	–	–	–	–	–	–	2)		-1 3/16"		
7/8"	–	–	2)	–	–	–	–	–		-7/8"		
1"			1)	1)	1)	1)	1)	1)		-1"		
1 1/8"	–	–	2)	–	–	–	–	–		-1 1/8"		
1 1/4"			1)	2)	2)	2)	2)	–		-1 1/4"		
1 5/16"	–	–	–	–	–	–	–	2)		-1 5/16"		
1 3/8"	–	–	2)	–	–	–	–	–		-1 3/8"		
1 1/2"			1)	1)	1)	1)	1)	1)		-1 1/2"		
1 5/8"	–	–	2)	–	–	–	–	–		-1 5/8"		
1 3/4"	–	–	1)	2)	2)	2)	2)	–		-1 3/4"		
1 13/16"	–	–	–	–	–	–	–	2)		-1 13/16"		
1 7/8"	–	–	2)	–	–	–	–	–		-1 7/8"		
2"			1)	1)	1)	1)	1)	1)		-2"		
2 3/4"	–	–	–	2)	2)	2)	2)	–		-2 3/4"		
2 13/16"	–	–	–	–	–	–	–	2)		-2 13/16"		
2 7/8"	–	–	2)	–	–	–	–	–		-2 7/8"		
3"			1)	1)	1)	1)	1)	1)		-3"		
3 3/4"	–	–	–	2)	2)	2)	2)	–		-3 3/4"		
3 13/16"	–	–	–	–	–	–	–	2)		-3 13/16"		
3 7/8"	–	–	2)	–	–	–	–	–		-3 7/8"		
4"			1)	1)	1)	1)	1)	1)		-4"		
Stroke adjustment	Without											
	–	–	Advancing/front						[3]	E		
Function	Double-acting											

[1] Q
Not with noise reduction SL, SL2

[2] L4
Not with stroke adjustment E
Not with piston rod type H, T

[3] E
Not with running characteristic L4
Not with piston rod type H, T
Not with mounting type D, U, D90, U90

1) Only with standard running characteristic

2) Only with running characteristic L4

Ordering data – Modular product system

Ordering table											
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4	Conditions	Code	Enter code
Piston rod type	At one end										
	Through, hollow piston rod								[4] [5]	H	
	Through piston rod								[4]	T	
Piston rod thread type	Male thread										
	Female thread									F	
Type of mounting	Standard										
	With swivel clevis								[6]	-D	
	With swivelling rod eye					–	–	–	[6]	-U	
	With swivel clevis, rotated 90°								[6]	-D90	
	With swivelling rod eye, rotated 90°					–	–	–	[6]	-U90	
Cushioning	No cushioning									-N	
	Elastic cushioning rings/plates at both ends									-P	
	Elastic cushioning rings/plates, front									-P2	
	Elastic cushioning rings/plates, rear									-P3	
Noise reduction	Without										
	–	–	Both sides						[7]	SL	
	–	–	Front						[8]	SL2	
	–	–	Rear						[9]	SL3	
Position sensing	Without										
	Via proximity switch								[10]	A	
Wiper variant	None										
	Increased chemical resistance									-A1	

[4] H, T
Not with running characteristic L4
Not with stroke adjustment E
Not with mounting type D, U, D90, U90

[5] H
Not with external piston rod thread

[6] D, U, D90, U90
Not with stroke adjustment E
Not with piston rod type H, T

[7] SL
Not with protection against rotation Q
Not with cushioning P, P2, P3

[8] SL2
Not with protection against rotation Q
Not with cushioning P, P2

[9] SL3
Not with cushioning P, P3

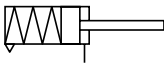
[10] A
Not with stroke 1/16, 3/16
Not with stroke 1/8 for piston diameter 1/2, 3/4, 1 1/8, 1 5/8, 2 1/2, 3, 4
Not with stroke 1/8 for piston diameter 2 and standard running characteristic
Not with stroke 1/4 for piston diameter 1/2, 3/4 and standard running characteristic
Not with stroke 1/4 for piston diameter 1 1/8
Not with stroke 1/4 for piston diameter 1 5/8 and standard running characteristic and protection against rotation Q
Not with stroke 3/8 for piston diameter 1 1/8 and protection against rotation Q
Not with stroke 1/2 for piston diameter 1 1/8 and protection against rotation Q
Not with cushioning P, P2 for piston diameter 1/2, 1 1/8, 1 5/8, 2

Compact cylinders DPCA-...-P/S, single-acting

Datasheet

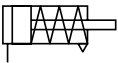
Function

DPCA-...-P



- Ø - Diameter
1/2 ... 3 inch
- l - Stroke length
1/16 ... 2 inch

DPCA-...-S



General technical data							
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3
Design	Piston						
	Piston rod						
	Cylinder barrel						
Operating mode							
[P]	Single-acting, pulling (piston rod advanced by spring force)						
[S]	Single-acting, pushing (piston rod retracted by spring force)						
Piston rod end	Male thread						
	Female thread						
Pneumatic connection							
[]	M5		G1/8				
[N]	10-32 UNF-2B		1/8 NPT				
Piston rod thread							
[]	8-32 UNC-2A	10-32 UNF-2A	5/16-24 UNF-2A	3/8-24 UNF-2A	1/2-20 UNF-2A		
[F]	8-32 UNC-2B	10-32 UNF-2B	5/16-24 UNF-2B	3/8-24 UNF-2B	1/2-20 UNF-2B		
Stroke	[in]	1/16 ... 2		1/8 ... 1 1/2			
Cushioning							
[P2]	Elastic cushioning rings/plates, front1)						
[P3]	Elastic cushioning rings/plates, rear2)						
Type of mounting							
	With through-hole						
	With accessories						
[U]	With swivelling rod eye on the end cap					–	
[D]	With swivel clevis on the end cap						
[U90]	With swivelling rod eye on the end cap rotated 90°					–	
[D90]	With swivel clevis on the end cap rotated 90°						
Mounting position	Any						

1) Not the single-acting variant, pushing (piston rod retracted by spring force)
2) Not the single-acting variant, pulling (piston rod advanced by spring force)

Datasheet

Operating and environmental conditions							
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3
Operating pressure [psi]	15 ... 150						
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)						
Ambient temperature ¹⁾ [°F]	-25 ... +250						

1) Note operating range of proximity switches

Weight [lb]							
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3
Product weight	0.08 ... 0.46	0.14 ... 0.81	0.28 ... 1.39	0.6 ... 3.8	0.89 ... 3.95	1.43 ... 4.73	1.89 ... 5.72

Materials	
Cover	Wrought aluminium alloy
Dynamic seals	NBR
	FPM
Piston rod	High-alloy steel
Cylinder barrel	Wrought aluminium alloy
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

Datasheet

Forces [lb] at 80 psi							
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3
[P] Single-acting, pulling (piston rod advanced by spring force)							
Stroke start/stroke end [in]							
1/16	10.3/9	26.8/25.8	–	–	–	–	–
1/8	10.3/9	26.1/24.3	5 8/55.5	127.5/121	207.5/201	351.4/345.6	524.2/518.4
3/16	–	–	5 9/55.5	–	–	–	–
1/4	11.3/9	27.3/24.3	6 0/55.5	131.5/121	211.5/201	355.1/345.6	518.4/511.9
3/8	10.8/8.8	26.3/24.1	–	–	206.5/196	–	–
1/2	11.3/8.8	26.8/24.1	60.5/52.5	130.5/117.5	20 9/196	352.1/339.1	523.9/514.9
5/8	–	–	–	–	–	–	–
3/4	–	–	60.1/46.9	13 2/118.5	21 0/198	352.6/342.1	525.4/514.9
1	–	–	60.7/45.8	131.2/116	211.3/196	352.4/337.1	525.4/514.9
1 1/4	–	–	61.5/47.2	–	–	–	–
1 1/2	–	–	59.7/45.9	–	–	–	525.2/509.9
1 3/4	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–
[S] Single-acting, pushing (piston rod retracted by spring force)							
Stroke start/stroke end [in]							
1/16	1 4/12.8	33.2/32.2	–	–	–	–	–
1/8	1 4/12.8	32.5/30.7	73.2/70.7	150.6/145.6	239.2/233.2	380.8/374.8	553.6/547.6
3/16	–	–	74.2/70.7	–	–	–	–
1/4	15.1/12.8	33.7/30.7	75.2/70.7	157.1/145.6	24 5/233.2	386.8/374.8	553.6/547.1
3/8	14.8/12.8	32.7/30.5	–	–	239.2/230.2	–	–
1/2	15.3/12.8	33.2/30.5	75.4/67.4	157.1/145.6	244.2/231.2	385.8/372.8	559.1/550.1
5/8	14.1/12.5	32.7/30.4	–	–	–	–	–
3/4	14.8/12.8	32.7/30.4	74.8/61.5	159.6/147.6	246.2/235.7	387.8/377.3	560.6/550.1
1	1 5/12.5	3 3/30.3	75.5/60.6	160.8/145.6	246.5/231.2	388.1/372.8	560.9/545.6
1 1/4	14.3/10.3	33.7/30.2	74.2/61.4	–	–	–	–
1 1/2	14.7/10.7	33.9/29.9	74.6/60.9	159.6/147.6	246.2/231.2	385.5/372.8	558.3/545.6
1 3/4	–	–	76.7/57	–	–	–	–
2	14.7/9.3	33.9/28.5	76.4/61.5	–	–	–	–

Datasheet

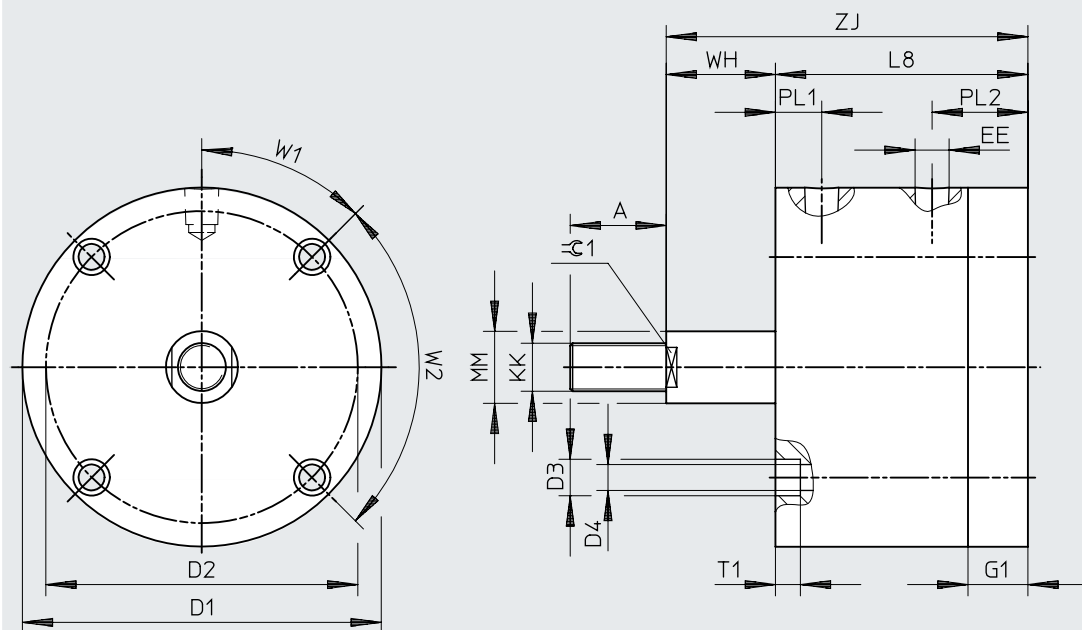
Forces [lb] at 80 psi							
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3
[P] Single-acting, pulling (piston rod advanced by spring force)							
[L4] Additional PTFE piston guide							
Stroke start/stroke end [in]							
1/16	–	–	5 9/55.5	–	–	–	–
1/8	10.3/9	27.3/24.3	6 0/55.5	–	205.3/198	–	–
1/4	10.3/9	26.3/24	–	131.5/121	20 9/196	346.4/339.1	518.7/513.3
3/8	11.3/9	26.8/24	60.5/55.5	–	–	–	–
1/2	–	–	–	130.5/117.5	21 0/198	345.2/336.5	519.8/511.1
5/8	–	–	57.9/46.9	–	–	–	–
3/4	–	–	–	13 2/118.5	211.3/196	347.4/335	521.9/509.6
7/8	–	–	58.9/45.8	–	–	–	–
1	–	–	–	–	–	–	–
1 1/8	–	–	6 0/47.2	–	–	–	–
1 1/4	–	–	–	–	–	–	–
1 3/8	–	–	58.5/45.9	–	–	–	–
1 1/2	–	–	–	–	–	–	–
1 5/8	–	–	–	–	–	–	–
1 7/8	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–
[S] Single-acting, pushing (piston rod retracted by spring force)							
[L4] Additional PTFE piston guide							
Stroke start/stroke end [in]							
1/16	–	–	74.2/70.7	–	–	–	–
1/8	13.2/12.8	32.4/30.7	75.2/70.7	–	239.9/230.2	–	–
1/4	1 4/12.8	33.7/30.7	–	157.1/145.6	243.9/231.2	379.7/372.8	553.9/548.6
3/8	14.8/12.8	32.7/30.4	75.4/67.4	–	–	–	–
1/2	14.1/12.5	32.7/30.4	–	157.1/145.6	24 5/235.7	382.2/377.3	55 5/546.3
5/8	14.1/12.5	32.7/30.4	74.8/61.5	–	–	–	–
3/4	16	–	–	159.6/147.6	243.6/231.2	384.8/372.8	557.7/545.6
7/8	–	–	75.5/60.6	–	–	–	–
1	1 5/12.5	33.7/30.3	–	–	–	–	–
1 1/8	–	–	74.2/61.4	–	–	–	–
1 1/4	14.3/10.3	3 4/30.2	–	158.5/145.6	246.4/231.2	383.3/372.8	556.1/545.6
1 3/8	–	–	74.6/60.9	–	–	–	–
1 1/2	14.7/10.7	33.9/29.9	–	–	–	–	–
1 5/8	–	–	76.7/57	–	–	–	–
1 7/8	–	–	76.4/61.5	–	–	–	–
2	14.7/10.7	33.9/28.9	–	–	–	–	–

Datasheet

Dimensions – piston Ø 1/2

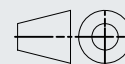
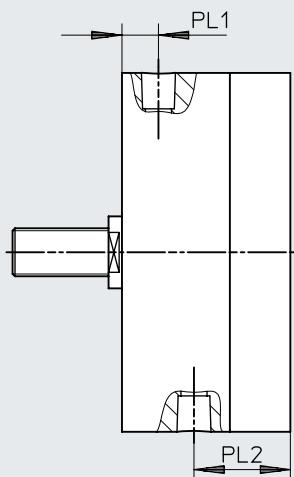
Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)



DPCA-...-1/16" ... 1/4"

DPCA-...-L4-...-1/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK		L8	
							[N]			[N]		[L4]
1/16	0.5	1.13	0.88	0.23	0.14	M5	10-32	0.19	M4	8-32 UNC-2A	0.7575	–
1/8	0.5	1.13	0.88	0.23	0.14	M5	10-32	0.19	M4	8-32 UNC-2A	0.905	1.005
1/4	0.5	1.13	0.88	0.23	0.14	M5	10-32	0.19	M4	8-32 UNC-2A	1.01	1.29
3/8	0.5	1.13	0.88	0.23	0.14	M5	10-32	0.19	M4	8-32 UNC-2A	1.295	1.415
1/2	0.5	1.13	0.88	0.23	0.14	M5	10-32	0.19	M4	8-32 UNC-2A	1.42	–

L ¹	MM ø	PL1		PL2	T1		W1	W2	WH	Z)		≈ 1
			[L4]			[L4]					[L4]	
1/16	0.25	0.3275	–	0.31	0.1275	–	90°	–	0.1925	0.95	–	0.19
1/8	0.25	0.325	0.325	0.31	0.135	0.125	90°	–	0.255	1.16	1.26	0.19
1/4	0.25	0.33	0.32	0.31	0.13	0.13	90°	–	0.38	1.39	1.67	0.19
3/8	0.25	0.325	0.325	0.31	0.135	0.125	90°	–	0.505	1.8	1.92	0.19
1/2	0.25	0.33	–	0.31	0.13	–	90°	–	0.63	2.05	–	0.19

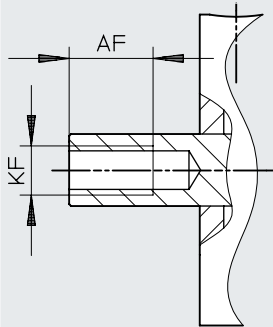
1) L = Stroke

Dimensions – piston ø 1/2

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF		KF	
			[L4]		[N]
1/16	0.25	–	–	M4	8-32 UNC-2B
1/8	0.25	0.25	0.25	M4	8-32 UNC-2B
1/4	0.25	0.25	0.25	M4	8-32 UNC-2B
3/8	0.38	0.38	0.38	M4	8-32 UNC-2B
1/2	0.38	–	–	M4	8-32 UNC-2B

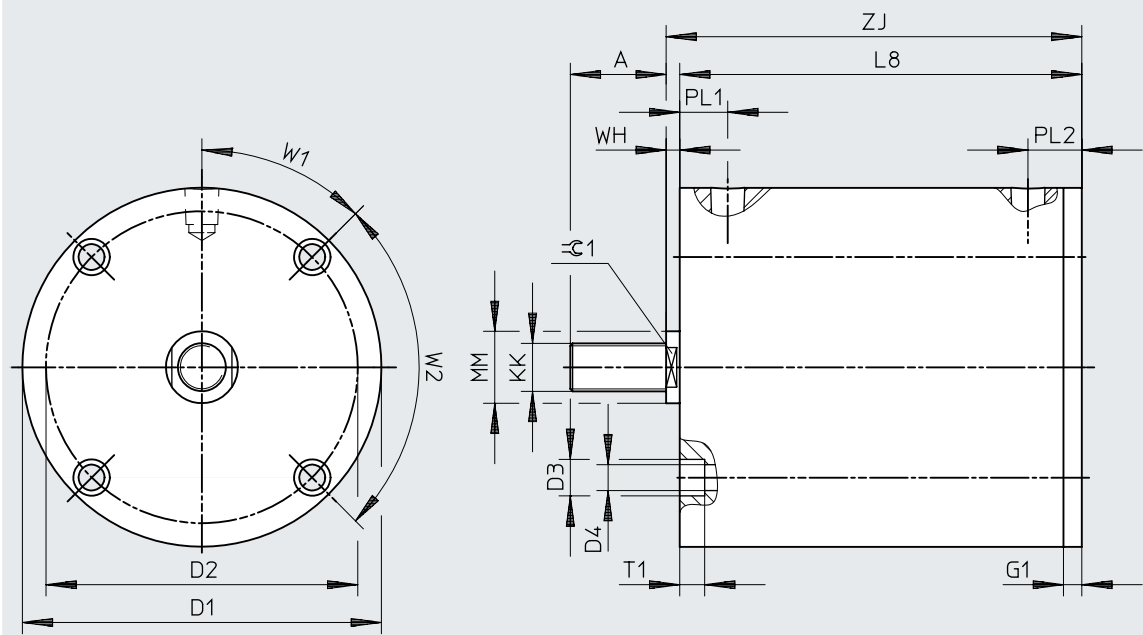
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

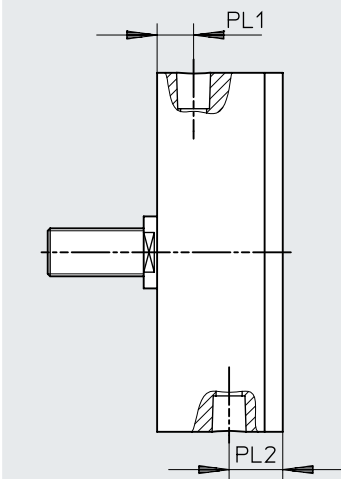


DPCA-...-1/16" ... 1/4"

DPCA-...-L4-...-1/8"

DPCA-...-5/8" ... 2"

DPCA-...-L4-...-1/2" ... 2"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø		D4 ø		D5		EE		G1	KK	
					[L4]		[L4]		[L4]		[N]			[N]
1/16	0.5	1.13	0.88	0.23	–	0.14	–	–	–	M4	10-32	0.13	M4	8-32 UNC-2A
1/8	0.5	1.13	0.88	0.23	0.23	0.14	0.14	–	–	M4	10-32	0.13	M4	8-32 UNC-2A
1/4	0.5	1.13	0.88	0.23	0.23	0.14	0.14	–	–	M4	10-32	0.13	M4	8-32 UNC-2A
3/8	0.5	1.13	0.88	0.23	0.23	0.14	0.14	–	–	M4	10-32	0.13	M4	8-32 UNC-2A
1/2	0.5	1.13	0.88	0.23	–	0.14	–	–	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A
5/8	0.5	1.13	0.88	–	–	–	–	6-32x0.44	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A
3/4	0.5	1.13	0.88	–	–	–	–	6-32x0.44	–	M4	10-32	0.13	M4	8-32 UNC-2A
1	0.5	1.13	0.88	–	–	–	–	6-32x0.44	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A
1 1/4	0.5	1.13	0.88	–	–	–	–	6-32x0.44	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A
1 1/2	0.5	1.13	0.88	–	–	–	–	6-32x0.44	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A
2	0.5	1.13	0.88	–	–	–	–	6-32x0.44	6-32x0.44	M4	10-32	0.13	M4	8-32 UNC-2A

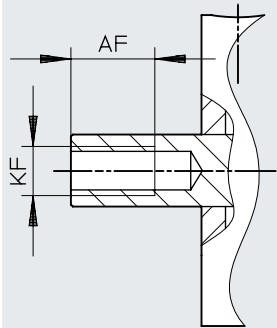
L ¹	L8		MM ø	PL1	PL2	T1		W1	W2	WH	Z)		≈ 1
		[L4]					[L4]					[L4]	
1/16	0.7	–	0.25	0.33	0.31	0.14	–	90°	–	0.13	0.83	–	0.19
1/8	0.83	0.95	0.25	0.33	0.31	0.14	0.14	90°	–	0.13	0.96	1.08	0.19
1/4	0.95	1.23	0.25	0.33	0.31	0.14	0.14	90°	–	0.13	1.08	1.36	0.19
3/8	1.23	1.36	0.25	0.33	0.31	0.14	0.14	90°	–	0.13	1.36	1.49	0.19
1/2	1.36	1.7	0.25	0.33	0.31	0.14	–	90°	–	0.13	1.49	1.83	0.19
5/8	1.7	2.2	0.25	0.33	0.31	–	–	90°	–	0.13	1.83	2.33	0.19
3/4	2.2	–	0.25	0.33	0.31	–	–	90°	–	0.13	2.33	–	0.19
1	2.83	2.83	0.25	0.42	0.31	–	–	90°	–	0.13	2.96		0.19
1 1/4	2.83	2.83	0.25	0.42	0.31	–	–	90°	–	0.13	2.96		0.19
1 1/2	3.83	3.83	0.25	0.42	0.31	–	–	90°	–	0.13	3.96		0.19
2	3.83	3.83	0.25	0.42	0.31	–	–	90°	–	0.13	3.96		0.19

1) L = Stroke

Datasheet

Dimensions – piston Ø 1/2 Download CAD data → www.festo.com

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/16	0.25	–	M4	8-32 UNC-2B
1/8	0.25	0.38	M4	8-32 UNC-2B
1/4	0.38	0.38	M4	8-32 UNC-2B
3/8	0.38	0.38	M4	8-32 UNC-2B
1/2	0.38	0.38	M4	8-32 UNC-2B
5/8	0.38	0.38	M4	8-32 UNC-2B
3/4	0.38	–	M4	8-32 UNC-2B
1	0.38	0.38	M4	8-32 UNC-2B
1 1/4	0.38	0.38	M4	8-32 UNC-2B
1 1/2	0.38	0.38	M4	8-32 UNC-2B
2	0.38	0.38	M4	8-32 UNC-2B

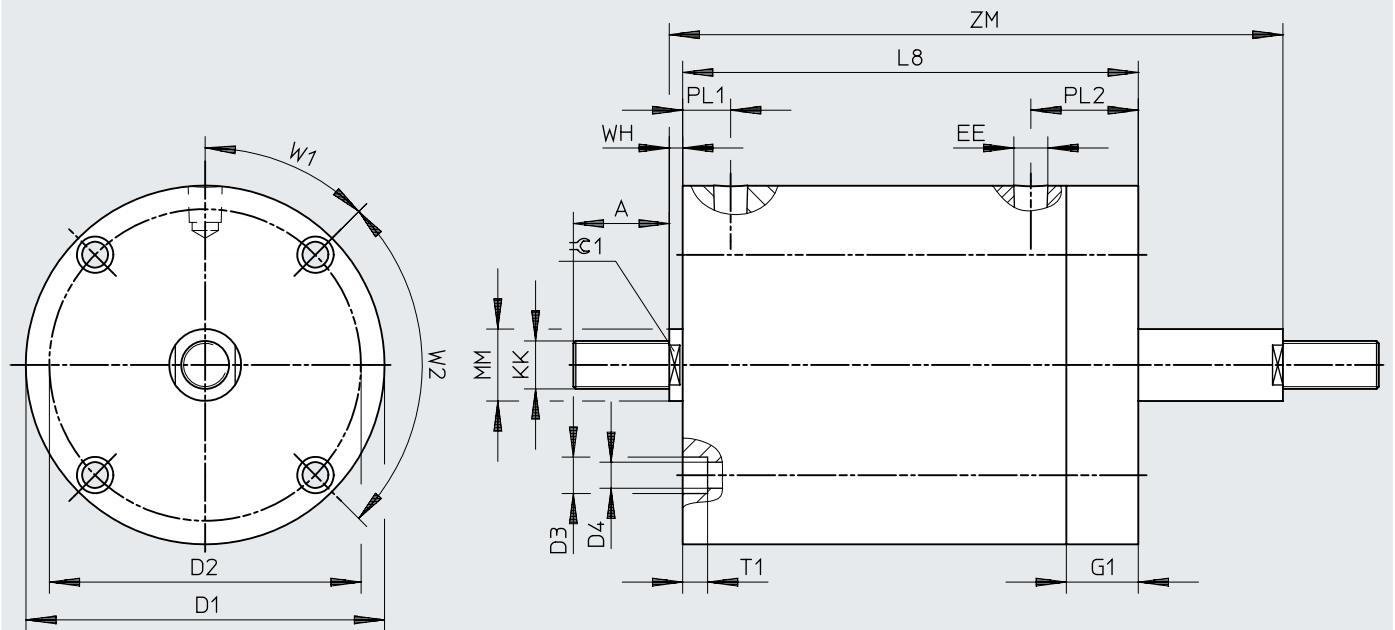
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$

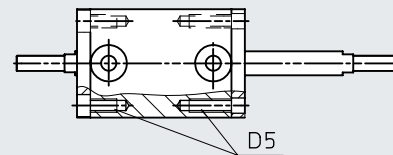
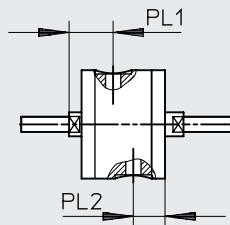
Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/16" ... 1/4"

DPCA-...-5/8" ... 2"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/4	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
3/8	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
1/2	0.5	1.13	0.88	0.23	0.14	–	M5	10-32	0.14	M4	8-32 UNC-2A
5/8	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
3/4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
1	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
1 1/4	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
1 1/2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A
2	0.5	1.13	0.88	–	–	6-32x0.44	M5	10-32	0.14	M4	8-32 UNC-2A

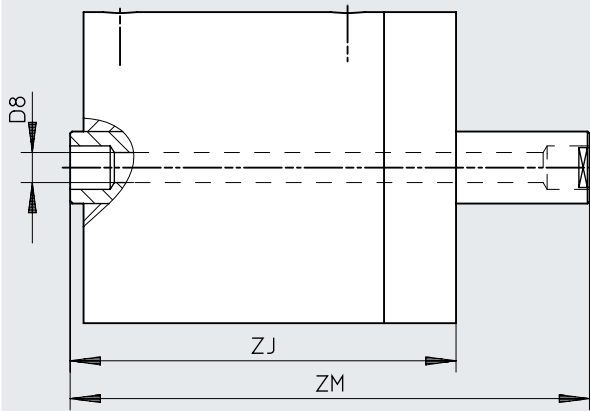
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/16	0.87	0.25	0.33	0.33	0.14	90°	–	0.13	1.1925	0.19
1/8	1	0.25	0.33	0.33	0.14	90°	–	0.13	1.385	0.19
1/4	1.12	0.25	0.33	0.33	0.14	90°	–	0.13	1.63	0.19
3/8	1.42	0.25	0.33	0.33	0.14	90°	–	0.13	2.055	0.19
1/2	1.54	0.25	0.33	0.33	0.14	90°	–	0.13	2.3	0.19
5/8	1.75	0.25	0.33	0.33	–	90°	–	0.13	2.635	0.19
3/4	2.25	0.25	0.33	0.33	–	90°	–	0.13	3.26	0.19
1	2.75	0.25	0.33	0.33	–	90°	–	0.13	4.01	0.19
1 1/4	2.75	0.25	0.33	0.33	–	90°	–	0.13	4.26	0.19
1 1/2	3.75	0.25	0.33	0.33	–	90°	–	0.13	5.51	0.19
2	3.75	0.25	0.33	0.33	–	90°	–	0.13	6.01	0.19

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1/2$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



L ¹	D8 ø	ZJ	ZM
1/16	1/16	1	1.1925
1/8	1/16	1	1.255
1/4	1/16	1.13	1.51
3/8	1/16	1.25	1.755
1/2	1/16	1.38	2.01
5/8	1/16	1.5	2.255
3/4	1/16	1.63	2.51
1	1/16	1.88	3.01
1 1/4	1/16	2.13	3.51
1 1/2	1/16	2.38	4.01
2	1/16	2.88	5.01

1) L = Stroke

Datasheet

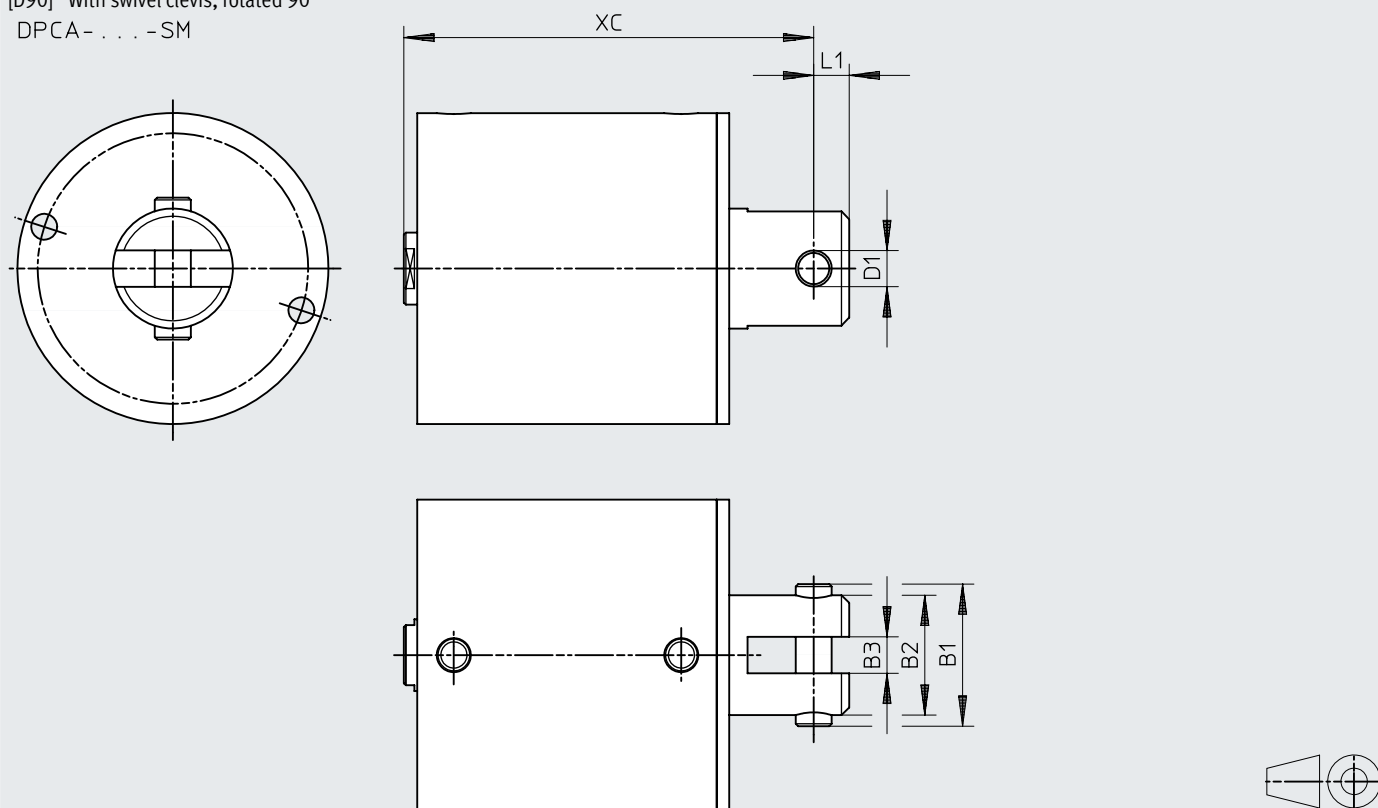
Dimensions – piston $\varnothing 1/2$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA-...-SM



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
							[S]	[L4-S]	[P]	[L4-P]
1/16	0.83	0.63	0.25	0.25	0.63	0.25	1.27	–	1.39	–
1/8	0.83	0.63	0.25	0.25	0.63	0.25	1.4	1.52	1.6	1.7
1/4	0.83	0.63	0.25	0.25	0.63	0.25	1.52	1.8	1.83	2.11
3/8	0.83	0.63	0.25	0.25	0.63	0.25	1.8	1.93	2.24	2.36
1/2	0.83	0.63	0.25	0.25	0.63	0.25	1.93	2.27	2.49	–
5/8	0.83	0.63	0.25	0.25	0.63	0.25	2.27	2.77	–	–
3/4	0.83	0.63	0.25	0.25	0.63	0.25	2.77	–	–	–
1	0.83	0.63	0.25	0.25	0.63	0.25	3.4	3.4	–	–
1 1/4	0.83	0.63	0.25	0.25	0.63	0.25	3.4	3.4	–	–
1 1/2	0.83	0.63	0.25	0.25	0.63	0.25	4.4	4.4	–	–
2	0.83	0.63	0.25	0.25	0.63	0.25	4.4	4.4	–	–

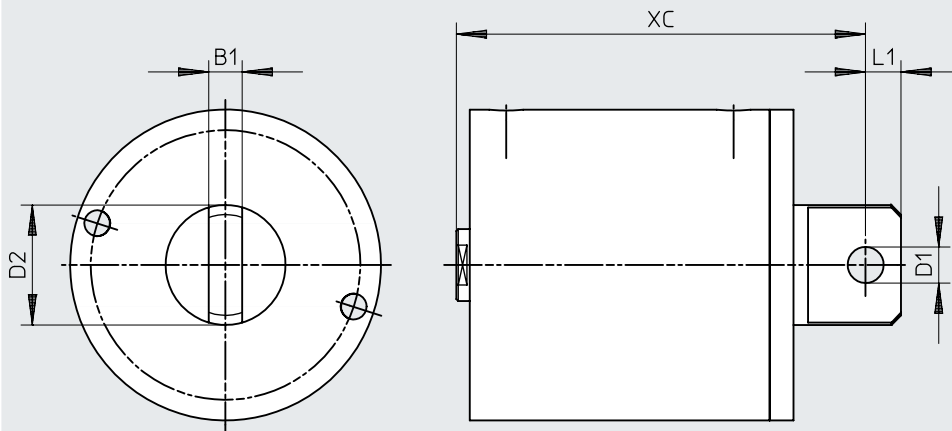
1) L = Stroke

Datasheet

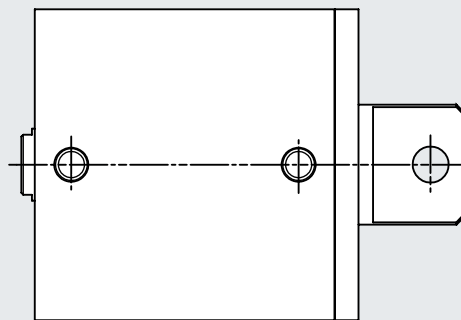
Dimensions – piston $\varnothing 1/2$ Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-ESM



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
							[S]	[L4-S]	[P]	[L4-P]
1/16	0.23	0.63	0.25	0.251	0.63	0.25	1.27	–	1.39	–
1/8	0.23	0.63	0.25	0.251	0.63	0.25	1.4	1.52	1.6	1.7
1/4	0.23	0.63	0.25	0.251	0.63	0.25	1.52	1.8	1.83	2.11
3/8	0.23	0.63	0.25	0.251	0.63	0.25	1.8	1.93	2.24	2.36
1/2	0.23	0.63	0.25	0.251	0.63	0.25	1.93	2.27	2.49	–
5/8	0.23	0.63	0.25	0.251	0.63	0.25	2.27	2.77	–	–
3/4	0.23	0.63	0.25	0.251	0.63	0.25	2.77	–	–	–
1	0.23	0.63	0.25	0.251	0.63	0.25	3.4	3.4	–	–
1 1/4	0.23	0.63	0.25	0.251	0.63	0.25	3.4	3.4	–	–
1 1/2	0.23	0.63	0.25	0.251	0.63	0.25	4.4	4.4	–	–
2	0.23	0.63	0.25	0.251	0.63	0.25	4.4	4.4	–	–

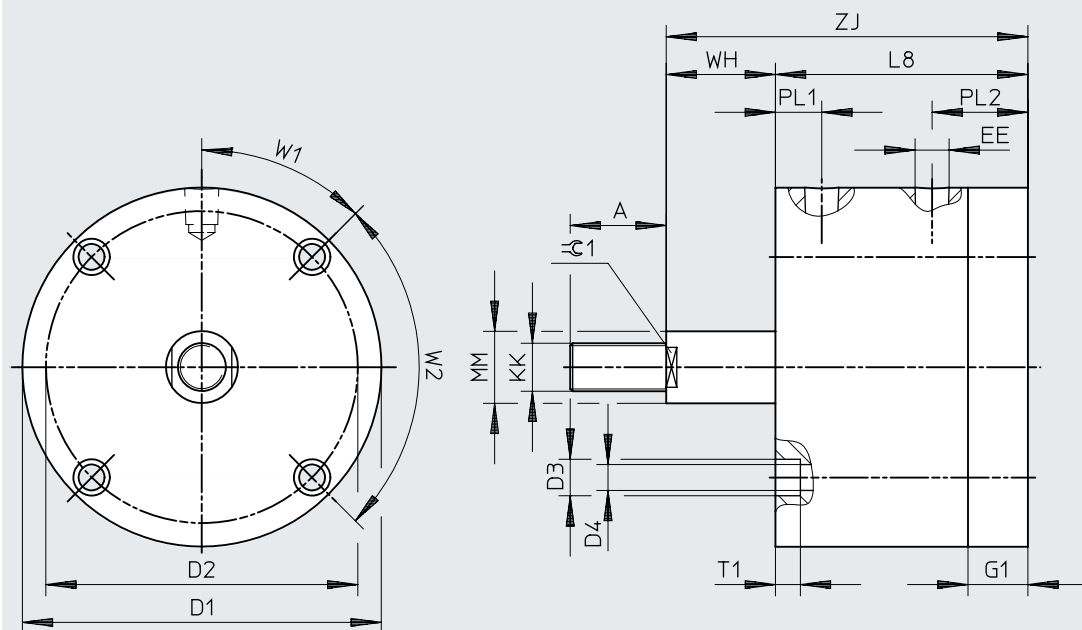
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$

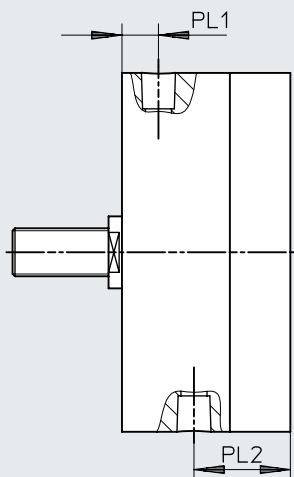
Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)



DPCA-...-1/16" ... 1/4"

DPCA-...-L4-...-1/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø		EE		G1	KK		L8	
						[L4]		[N]			[N]		[L4]
1/16	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.19	M5	10-32 UNF-2A	0.7575	–
1/8	0.5	1.5	1.19	0.23	0.14	0.13	M5	10-32	0.19	M5	10-32 UNF-2A	0.905	1.005
1/4	0.5	1.5	1.19	0.23	0.14	0.13	M5	10-32	0.19	M5	10-32 UNF-2A	1.01	1.29
3/8	0.5	1.5	1.19	0.23	0.14	0.13	M5	10-32	0.19	M5	10-32 UNF-2A	1.295	1.415
1/2	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.19	M5	10-32 UNF-2A	1.42	–

L ¹	MM ø	PL1		PL2	T1		W1	W2	WH	Z)		≈ 1
			[L4]			[L4]					[L4]	
1/16	0.31	0.3275	–	0.31	0.1275	–	90°	–	0.1925	0.95	–	0.25
1/8	0.31	0.325	0.325	0.31	0.135	0.125	90°	–	0.255	1.16	1.26	0.25
1/4	0.31	0.33	0.32	0.31	0.13	0.13	90°	–	0.38	1.39	1.67	0.25
3/8	0.31	0.325	0.325	0.31	0.135	0.125	90°	–	0.505	1.8	1.92	0.25
1/2	0.31	0.33	–	0.31	0.13	–	90°	–	0.63	2.05	–	0.25

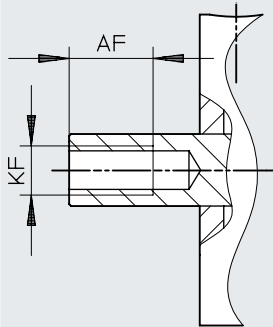
1) L = Stroke

Dimensions – piston ø 3/4

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF		KF	
			[L4]		[N]
1/16	0.25	–		M5	10-32 UNF-2B
1/8	0.25	0.25		M5	10-32 UNF-2B
1/4	0.25	0.25		M5	10-32 UNF-2B
3/8	0.38	0.38		M5	10-32 UNF-2B
1/2	0.38	–		M5	10-32 UNF-2B

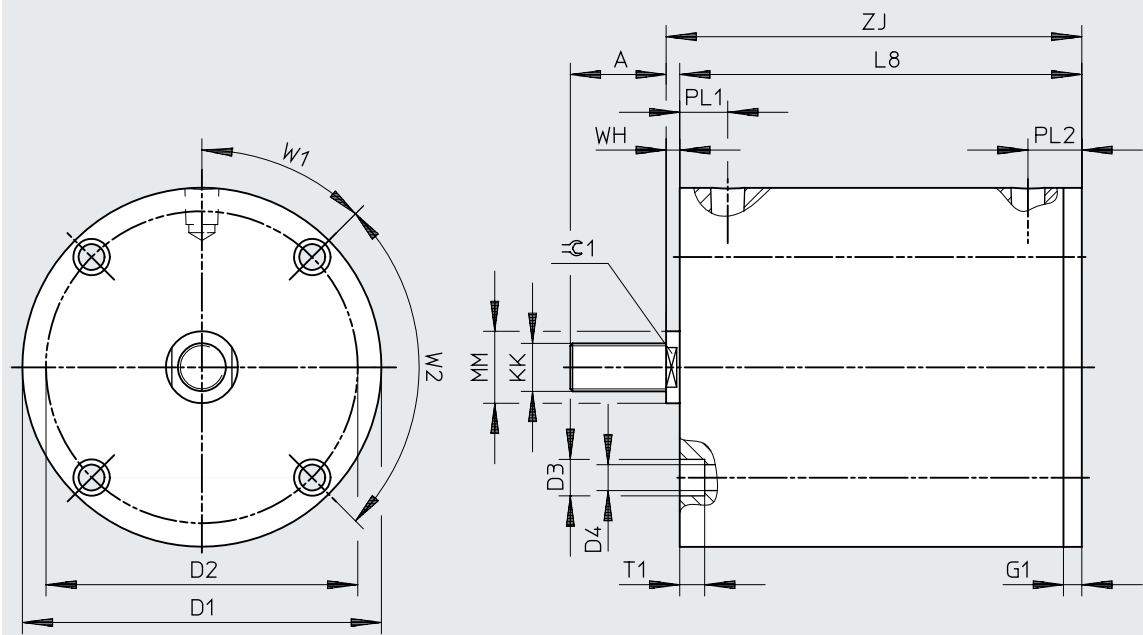
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

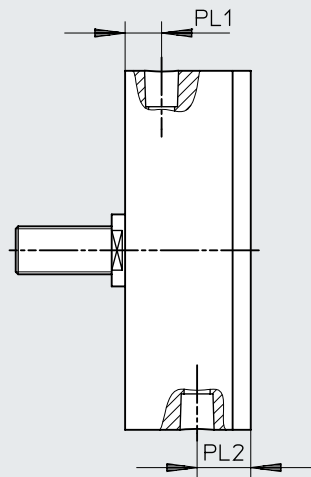


DPCA-...-1/16" ... 1/4"

DPCA-...-L4-...-1/8"

DPCA-...-5/8" ... 2"

DPCA-...-L4-...-1/2" ... 2"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø		D4 ø		D5		EE		G1	KK	
					[L4]		[L4]		[L4]		[N]			[N]
1/16	0.5	1.5	1.19	0.23	–	0.14	–	–	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/8	0.5	1.5	1.19	0.23	0.23	0.14	0.13	–	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/4	0.5	1.5	1.19	0.23	0.23	0.14	0.13	–	–	M5	10-32	0.13	M5	10-32 UNF-2A
3/8	0.5	1.5	1.19	0.23	0.23	0.14	0.13	–	–	M5	10-32	0.13	M5	10-32 UNF-2A
1/2	0.5	1.5	1.19	0.23	–	0.14	–	–	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
5/8	0.5	1.5	1.19	–	–	–	–	8-32x0.44	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
3/4	0.5	1.5	1.19	–	–	–	–	8-32x0.44	–	M5	10-32	0.13	M5	10-32 UNF-2A
1	0.5	1.5	1.19	–	–	–	–	8-32x0.44	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
1 1/4	0.5	1.5	1.19	–	–	–	–	8-32x0.44	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
1 1/2	0.5	1.5	1.19	–	–	–	–	8-32x0.44	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A
2	0.5	1.5	1.19	–	–	–	–	8-32x0.44	8-32x0.44	M5	10-32	0.13	M5	10-32 UNF-2A

L ¹	L8		MM ø	PL1	PL2	T1		W1	W2	WH	Z)		≈ 1
		[L4]					[L4]					[L4]	
1/16	0.7	–	0.31	0.33	0.31	0.14	–	90°	–	0.13	0.83	–	0.25
1/8	0.83	0.95	0.31	0.33	0.31	0.14	0.14	90°	–	0.13	0.96	1.08	0.25
1/4	0.95	1.23	0.31	0.33	0.31	0.14	0.14	90°	–	0.13	1.08	1.36	0.25
3/8	1.23	1.36	0.31	0.33	0.31	0.14	0.14	90°	–	0.13	1.36	1.49	0.25
1/2	1.36	1.7	0.31	0.33	0.31	0.14	–	90°	–	0.13	1.49	1.83	0.25
5/8	1.7	2.2	0.31	0.33	0.31	–	–	90°	–	0.13	1.83	2.33	0.25
3/4	2.2	–	0.31	0.33	0.31	–	–	90°	–	0.13	2.33	–	0.25
1	2.83	2.83	0.31	0.42	0.31	–	–	90°	–	0.13	2.96		0.25
1 1/4	2.83	2.83	0.31	0.42	0.31	–	–	90°	–	0.13	2.96		0.25
1 1/2	3.83	3.83	0.31	0.42	0.31	–	–	90°	–	0.13	3.96		0.25
2	3.83	3.83	0.31	0.42	0.31	–	–	90°	–	0.13	3.96		0.25

1) L = Stroke

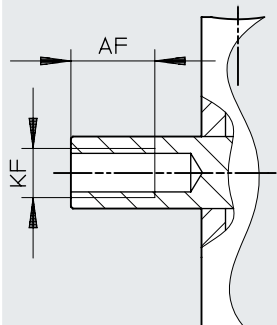
Datasheet

Dimensions – piston $\varnothing 3/4$

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/16	0.25	–	M5	10-32 UNF-2B
1/8	0.25	0.38	M5	10-32 UNF-2B
1/4	0.38	0.38	M5	10-32 UNF-2B
3/8	0.38	0.38	M5	10-32 UNF-2B
1/2	0.38	0.38	M5	10-32 UNF-2B
5/8	0.38	0.38	M5	10-32 UNF-2B
3/4	0.38	–	M5	10-32 UNF-2B
1	0.38	0.38	M5	10-32 UNF-2B
1 1/4	0.38	0.38	M5	10-32 UNF-2B
1 1/2	0.38	0.38	M5	10-32 UNF-2B
2	0.38	0.38	M5	10-32 UNF-2B

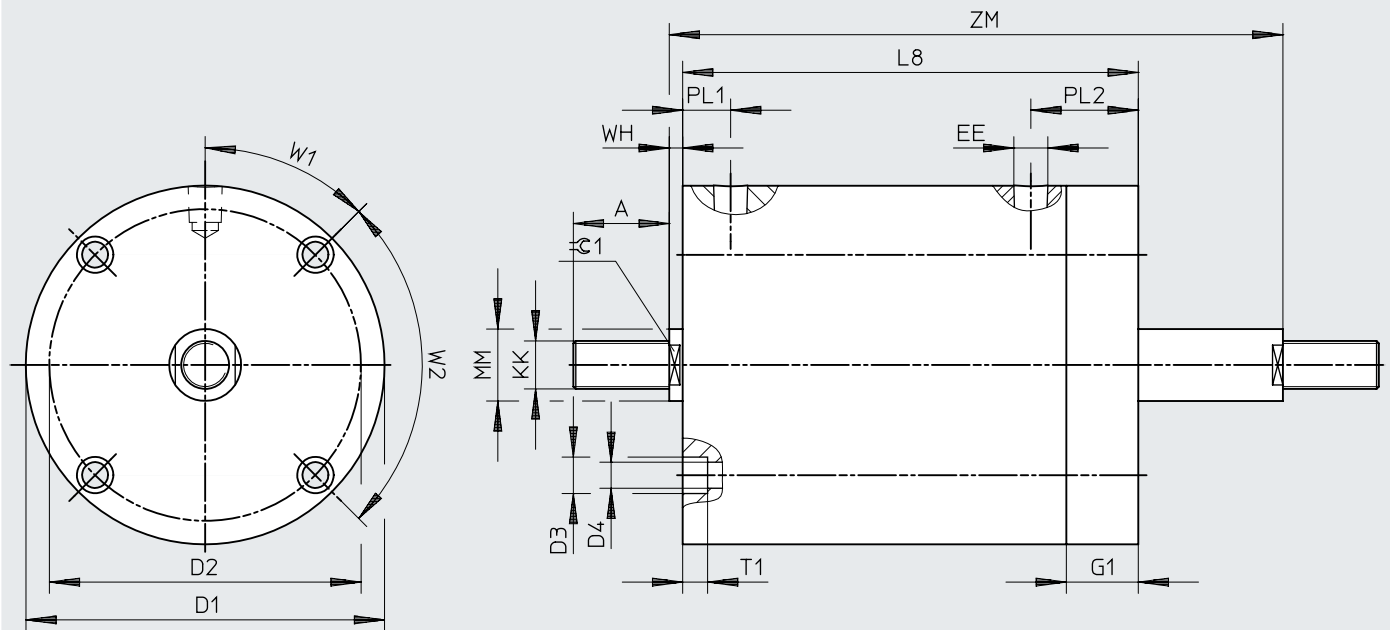
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$

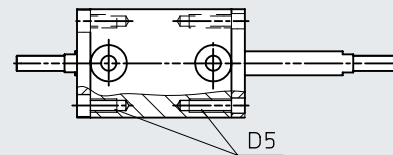
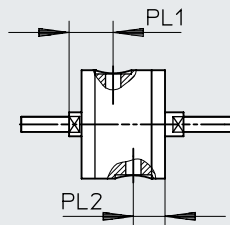
Download CAD data → www.festo.com

[T] Through piston rod



DPCA-...-1/16" ... 1/4"

DPCA-...-5/8" ... 2"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	KK	
								[N]			[N]
1/16	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/8	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/4	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.14	M5	10-32 UNF-2A
3/8	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.14	M5	10-32 UNF-2A
1/2	0.5	1.5	1.19	0.23	0.14	–	M5	10-32	0.14	M5	10-32 UNF-2A
5/8	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
3/4	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1 1/4	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
1 1/2	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A
2	0.5	1.5	1.19	–	–	8-32x0.44	M5	10-32	0.14	M5	10-32 UNF-2A

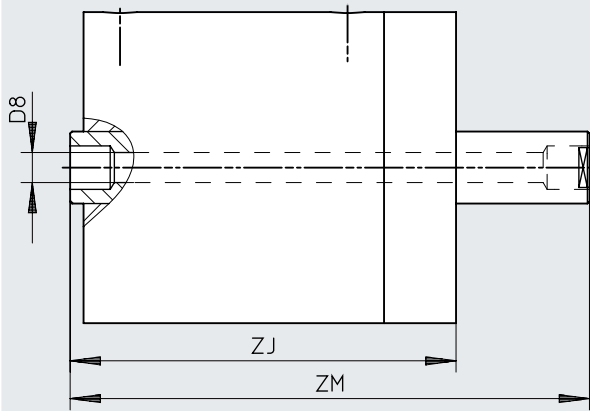
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	⊥ 1
1/16	0.87	0.31	0.33	0.33	0.14	90°	–	0.13	1.1925	0.25
1/8	1	0.31	0.33	0.33	0.14	90°	–	0.13	1.385	0.25
1/4	1.12	0.31	0.33	0.33	0.14	90°	–	0.13	1.63	0.25
3/8	1.42	0.31	0.33	0.33	0.14	90°	–	0.13	2.055	0.25
1/2	1.54	0.31	0.33	0.33	0.14	90°	–	0.13	2.3	0.25
5/8	1.75	0.31	0.33	0.33	–	90°	–	0.13	2.635	0.25
3/4	2.25	0.31	0.33	0.33	–	90°	–	0.13	3.26	0.25
1	2.75	0.31	0.33	0.33	–	90°	–	0.13	4.01	0.25
1 1/4	2.75	0.31	0.33	0.33	–	90°	–	0.13	4.26	0.25
1 1/2	3.75	0.31	0.33	0.33	–	90°	–	0.13	5.51	0.25
2	3.75	0.31	0.33	0.33	–	90°	–	0.13	6.01	0.25

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



L ¹	D8 Ø	ZJ	ZM
1/16	1/16	1	1.1925
1/8	1/16	1	1.255
1/4	1/16	1.13	1.51
3/8	1/16	1.25	1.755
1/2	1/16	1.38	2.01
5/8	1/16	1.5	2.255
3/4	1/16	1.63	2.51
1	1/16	1.88	3.01
1 1/4	1/16	2.13	3.51
1 1/2	1/16	2.38	4.01
2	1/16	2.88	5.01

1) L = Stroke

Datasheet

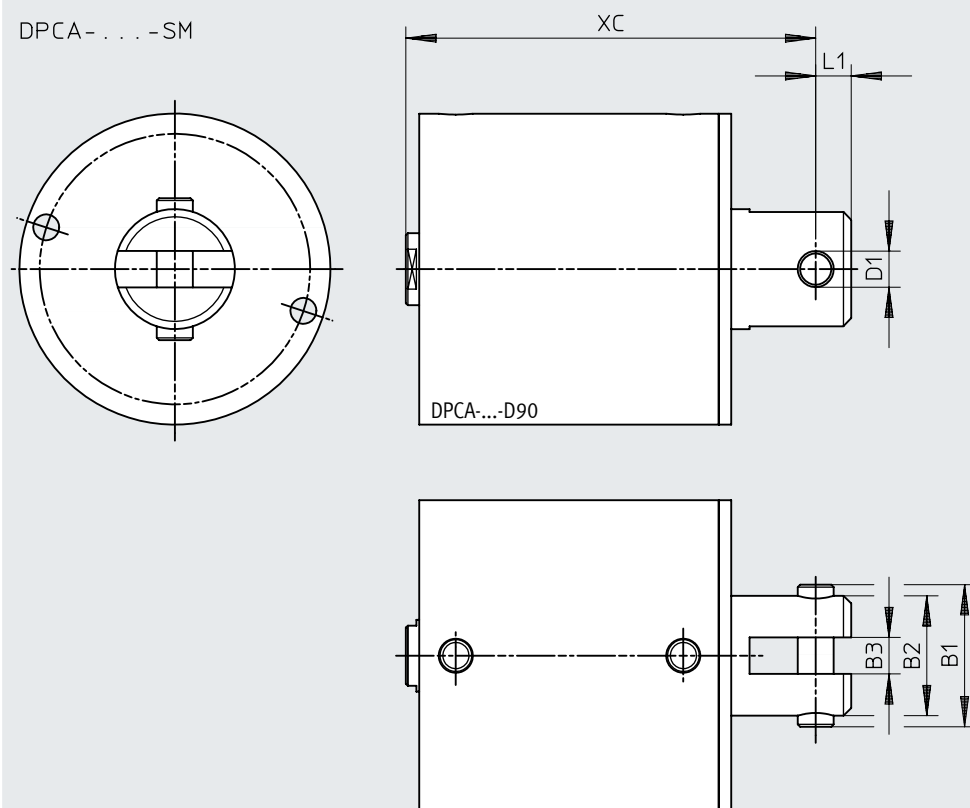
Dimensions – piston $\varnothing 3/4$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

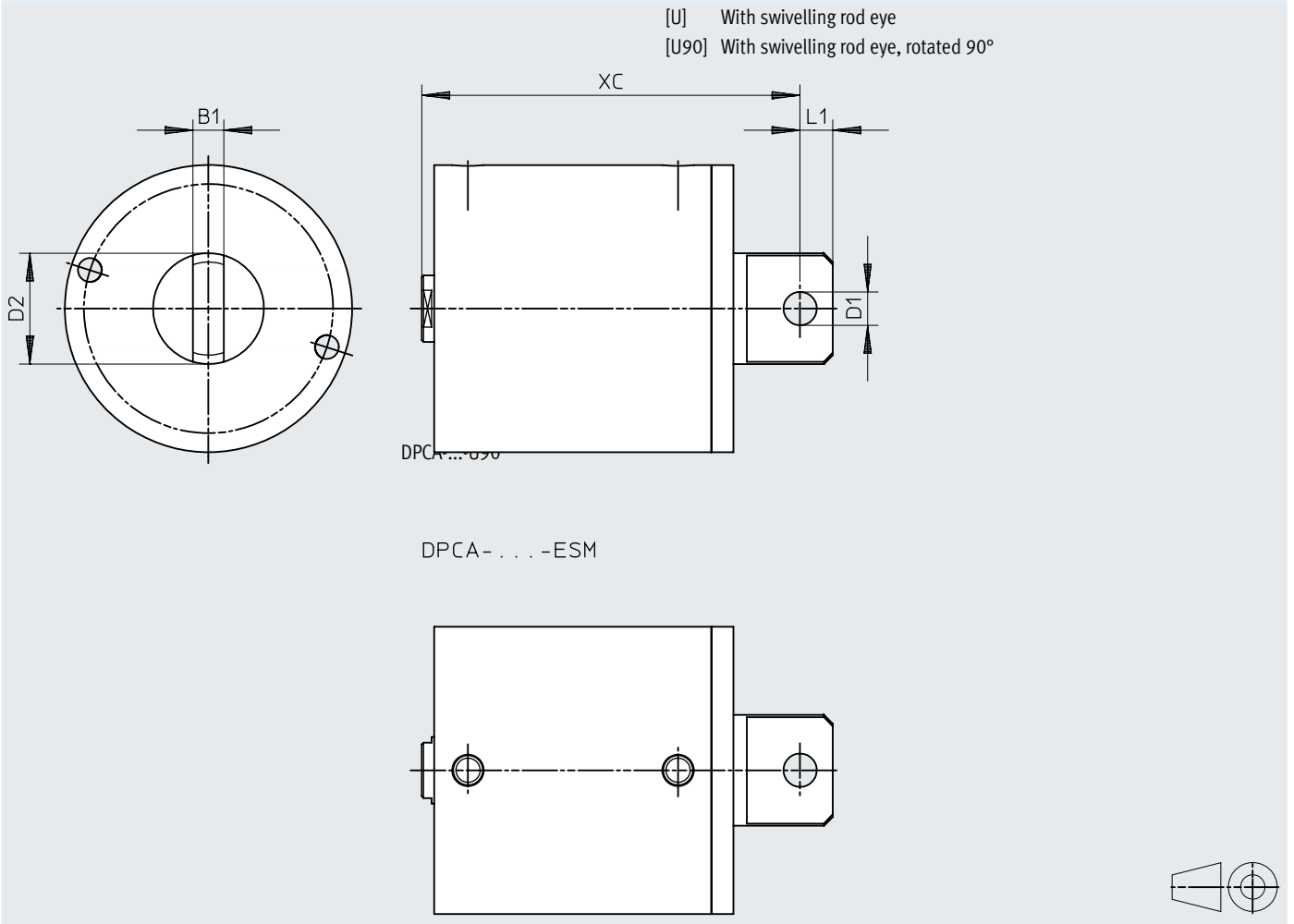
DPCA-...-SM



L ¹	B1	B2	B3	D1 ø	D2 ø	L1	XC			
	[D/D90]			[D/D90]			[S]	[L4-S]	[P]	[L4-P]
1/16	0.83	0.63	0.25	0.25	0.63	0.25	1.27	–	1.39	–
1/8	0.83	0.63	0.25	0.25	0.63	0.25	1.4	1.52	1.6	1.7
1/4	0.83	0.63	0.25	0.25	0.63	0.25	1.52	1.8	1.83	2.11
3/8	0.83	0.63	0.25	0.25	0.63	0.25	1.8	1.93	2.24	2.36
1/2	0.83	0.63	0.25	0.25	0.63	0.25	1.93	2.27	2.49	–
5/8	0.83	0.63	0.25	0.25	0.63	0.25	2.27	2.77	–	–
3/4	0.83	0.63	0.25	0.25	0.63	0.25	2.77	–	–	–
1	0.83	0.63	0.25	0.25	0.63	0.25	3.4	3.4	–	–
1 1/4	0.83	0.63	0.25	0.25	0.63	0.25	3.4	3.4	–	–
1 1/2	0.83	0.63	0.25	0.25	0.63	0.25	4.4	4.4	–	–
2	0.83	0.63	0.25	0.25	0.63	0.25	4.4	4.4	–	–

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3/4$ Download CAD data → www.festo.com

L ¹	B1	B2	B3	D1 ø	D2 ø	L1	XC			
	[U/U90]			[U/U90]			[S]	[L4-S]	[P]	[L4-P]
1/16	0.23	0.63	0.25	0.251	0.63	0.25	1.27	–	1.39	–
1/8	0.23	0.63	0.25	0.251	0.63	0.25	1.4	1.52	1.6	1.7
1/4	0.23	0.63	0.25	0.251	0.63	0.25	1.52	1.8	1.83	2.11
3/8	0.23	0.63	0.25	0.251	0.63	0.25	1.8	1.93	2.24	2.36
1/2	0.23	0.63	0.25	0.251	0.63	0.25	1.93	2.27	2.49	–
5/8	0.23	0.63	0.25	0.251	0.63	0.25	2.27	2.77	–	–
3/4	0.23	0.63	0.25	0.251	0.63	0.25	2.77	–	–	–
1	0.23	0.63	0.25	0.251	0.63	0.25	3.4	3.4	–	–
1 1/4	0.23	0.63	0.25	0.251	0.63	0.25	3.4	3.4	–	–
1 1/2	0.23	0.63	0.25	0.251	0.63	0.25	4.4	4.4	–	–
2	0.23	0.63	0.25	0.251	0.63	0.25	4.4	4.4	–	–

1) L = Stroke

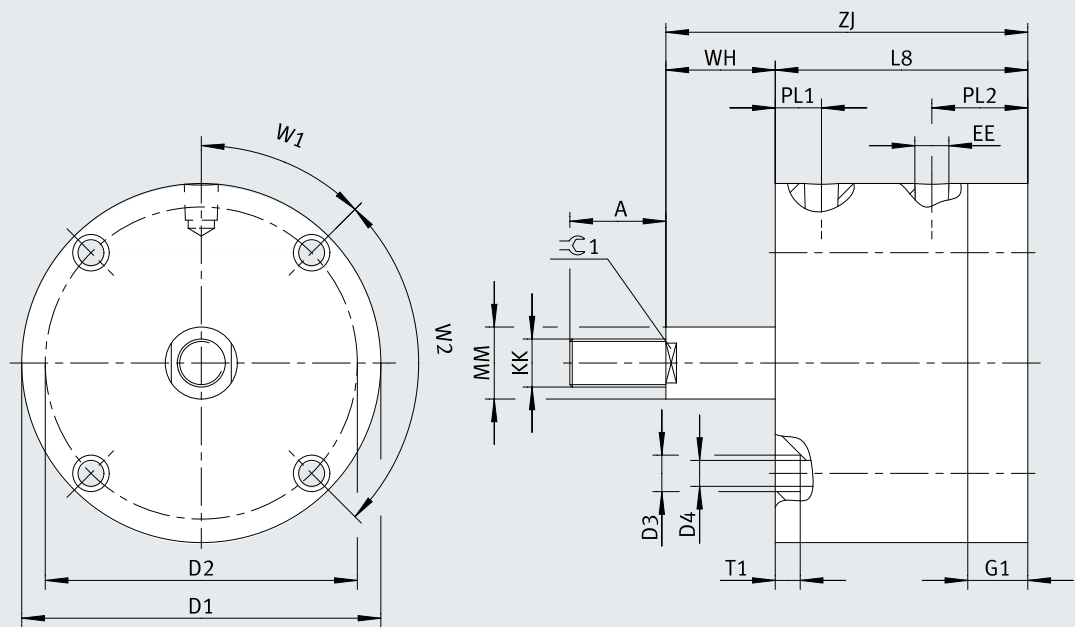
Datasheet

Dimensions – piston Ø 1 1/8"

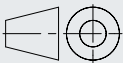
Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

DPCA-...-1/8" ...1/2"
DPCA-...-L4-...-1/16" ...3/8"



DPCA-...-1/8" ...1/2"
DPCA-...-L4-...-1/16" ...3/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/16	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
3/16	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1/4	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
3/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1/2	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
5/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
3/4	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
7/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1 1/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1 1/4	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1 3/8	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A
1 1/2	0.75	1.99	1.69	0.32	0.2	G1/8	1/8 NPT	0.38	M8	5/16-24 UNF-2A

L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZJ	≈ 1
1/16	1.1275	0.5	0.3075	0.82	0.19	90°	–	0.2025	1.33	0.44
1/8	1.135	0.5	0.315	0.82	0.195	90°	–	0.265	1.4	0.44
3/16	1.1325	0.5	0.3125	0.82	0.1925	90°	–	0.3275	1.46	0.44
1/4	1.13	0.5	0.31	0.82	0.19	90°	–	0.39	1.52	0.44
3/8	1.445	0.5	0.535	0.91	0.195	90°	–	0.515	1.96	0.44
1/2	1.44	0.5	0.53	0.91	0.19	90°	–	0.64	2.08	0.44
5/8	2.135	0.5	0.385	0.75	0.195	90°	–	0.765	2.9	0.44
3/4	2.13	0.5	0.38	0.75	0.19	90°	–	0.89	3.02	0.44
7/8	2.385	0.5	0.385	0.75	0.195	90°	–	1.015	3.4	0.44
1	2.38	0.5	0.38	0.75	0.19	90°	–	1.14	3.52	0.44
1 1/8	3.065	0.5	0.565	0.75	0.195	90°	–	1.265	4.33	0.44
1 1/4	3.06	0.5	0.56	0.75	0.19	90°	–	1.39	4.45	0.44
1 3/8	3.505	0.5	0.755	0.75	0.195	90°	–	1.515	5.02	0.44
1 1/2	3.5	0.5	0.75	0.75	0.19	90°	–	1.64	5.14	0.44

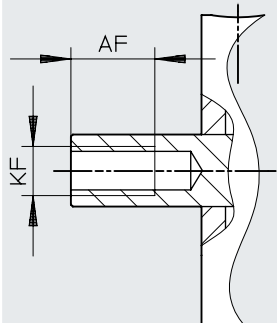
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/16	–	0.38	M8	5/16-24 UNF-2B
1/8	0.38	0.38	M8	5/16-24 UNF-2B
3/16	0.38	–	M8	5/16-24 UNF-2B
1/4	0.38	–	M8	5/16-24 UNF-2B
3/8	–	0.38	M8	5/16-24 UNF-2B
1/2	0.38	–	M8	5/16-24 UNF-2B
5/8	–	0.63	M8	5/16-24 UNF-2B
3/4	0.63	–	M8	5/16-24 UNF-2B
7/8	–	0.63	M8	5/16-24 UNF-2B
1	0.63	–	M8	5/16-24 UNF-2B
1 1/8	–	0.63	M8	5/16-24 UNF-2B
1 1/4	0.63	–	M8	5/16-24 UNF-2B
1 3/8	–	0.63	M8	5/16-24 UNF-2B
1 1/2	0.63	–	M8	5/16-24 UNF-2B
2	–	–	M8	5/16-24 UNF-2B

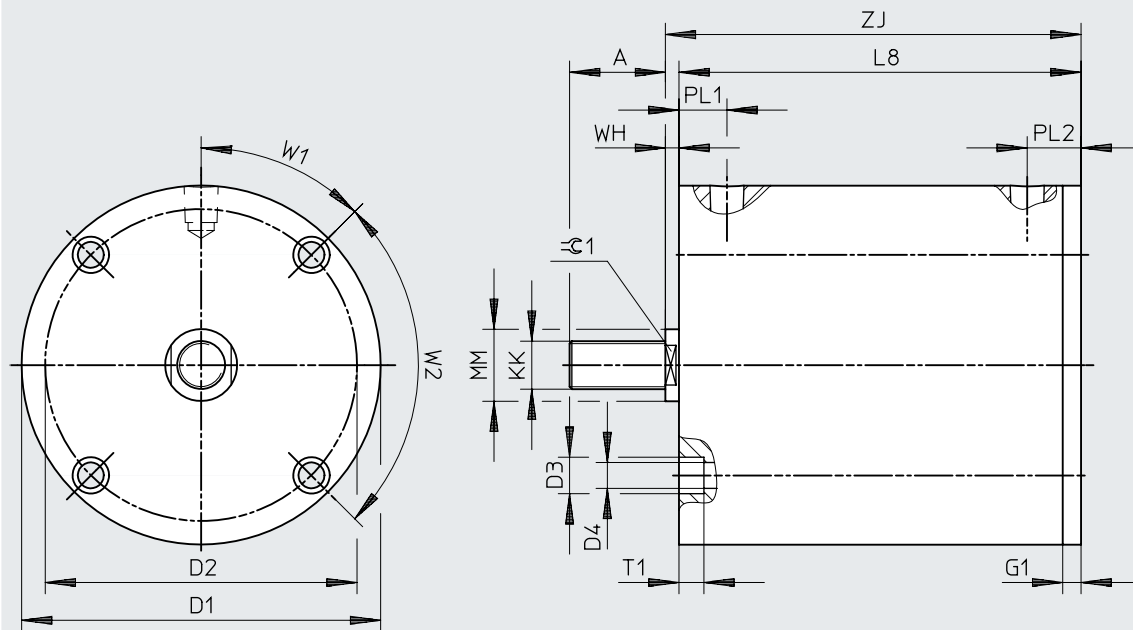
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1\frac{1}{8}$

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

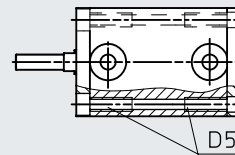
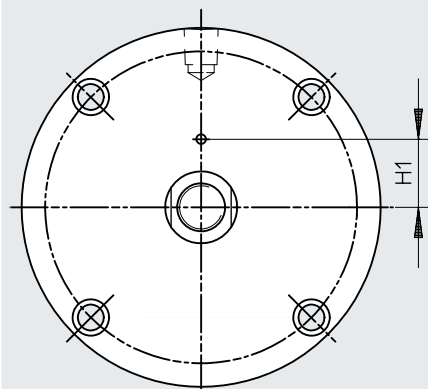


DPCA-...-1/8" ... 1/2"

DPCA-...-L4-... 1/16" ... 3/8"

DPCA-...-1 3/4" ... 2"

DPCA-...-L4-...-1 5/8" ... 1 7/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	H1	KK	
								[N]				[N]
1/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
3/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
3/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	0.4	M8	5/16-24 UNF-2A
5/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
7/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 3/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 5/8	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 3/4	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
1 7/8	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A
2	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.13	–	M8	5/16-24 UNF-2A

L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZJ	≈ 1
1/16	0.88	0.5	–	0.57	0.19	90°	–	0.14	1.02	0.44
1/8	0.88	0.5	–	0.57	0.19	90°	–	0.14	1.02	0.44
3/16	0.88	0.5	–	0.57	0.19	90°	–	0.14	1.02	0.44
1/4	0.88	0.5	–	0.57	0.19	90°	–	0.14	1.02	0.44
3/8	1.19	0.5	–	0.66	0.19	90°	–	0.14	1.33	0.44
1/2	1.19	0.5	–	0.66	0.19	90°	–	0.14	1.33	0.44
5/8	1.88	0.5	0.38	0.5	0.19	90°	–	0.14	2.02	0.44
3/4	1.88	0.5	0.38	0.5	0.19	90°	–	0.14	2.02	0.44
7/8	2.13	0.5	0.38	0.5	0.19	90°	–	0.14	2.27	0.44
1	2.13	0.5	0.38	0.5	0.19	90°	–	0.14	2.27	0.44
1 1/8	2.81	0.5	0.56	0.5	0.19	90°	–	0.14	2.95	0.44
1 1/4	2.81	0.5	0.56	0.5	0.19	90°	–	0.14	2.95	0.44
1 3/8	3.25	0.5	0.75	0.5	0.19	90°	–	0.14	3.39	0.44
1 1/2	3.25	0.5	0.75	0.5	0.19	90°	–	0.14	3.39	0.44
1 5/8	3.85	0.5	0.38	0.5	–	90°	–	0.14	3.99	0.44
1 3/4	3.85	0.5	0.38	0.5	–	90°	–	0.14	3.99	0.44
1 7/8	4.85	0.5	0.38	0.5	–	90°	–	0.14	3.99	0.44
2	4.85	0.5	0.38	0.5	–	90°	–	0.14	3.99	0.44

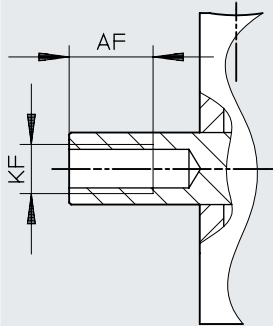
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/16	–	0.38	M8	5/16-24 UNF-2B
1/8	0.38	0.38	M8	5/16-24 UNF-2B
3/16	0.38	–	M8	5/16-24 UNF-2B
1/4	0.38	–	M8	5/16-24 UNF-2B
3/8	–	0.38	M8	5/16-24 UNF-2B
1/2	0.38	–	M8	5/16-24 UNF-2B
5/8	–	0.63	M8	5/16-24 UNF-2B
3/4	0.63	–	M8	5/16-24 UNF-2B
7/8	–	0.63	M8	5/16-24 UNF-2B
1	0.63	–	M8	5/16-24 UNF-2B
1 1/8	–	0.63	M8	5/16-24 UNF-2B
1 1/4	0.63	–	M8	5/16-24 UNF-2B
1 3/8	–	0.63	M8	5/16-24 UNF-2B
1 1/2	0.63	–	M8	5/16-24 UNF-2B
1 5/8	–	0.63	M8	5/16-24 UNF-2B
1 3/4	0.63	–	M8	5/16-24 UNF-2B
1 7/8	–	0.63	M8	5/16-24 UNF-2B
2	0.63	–	M8	5/16-24 UNF-2B

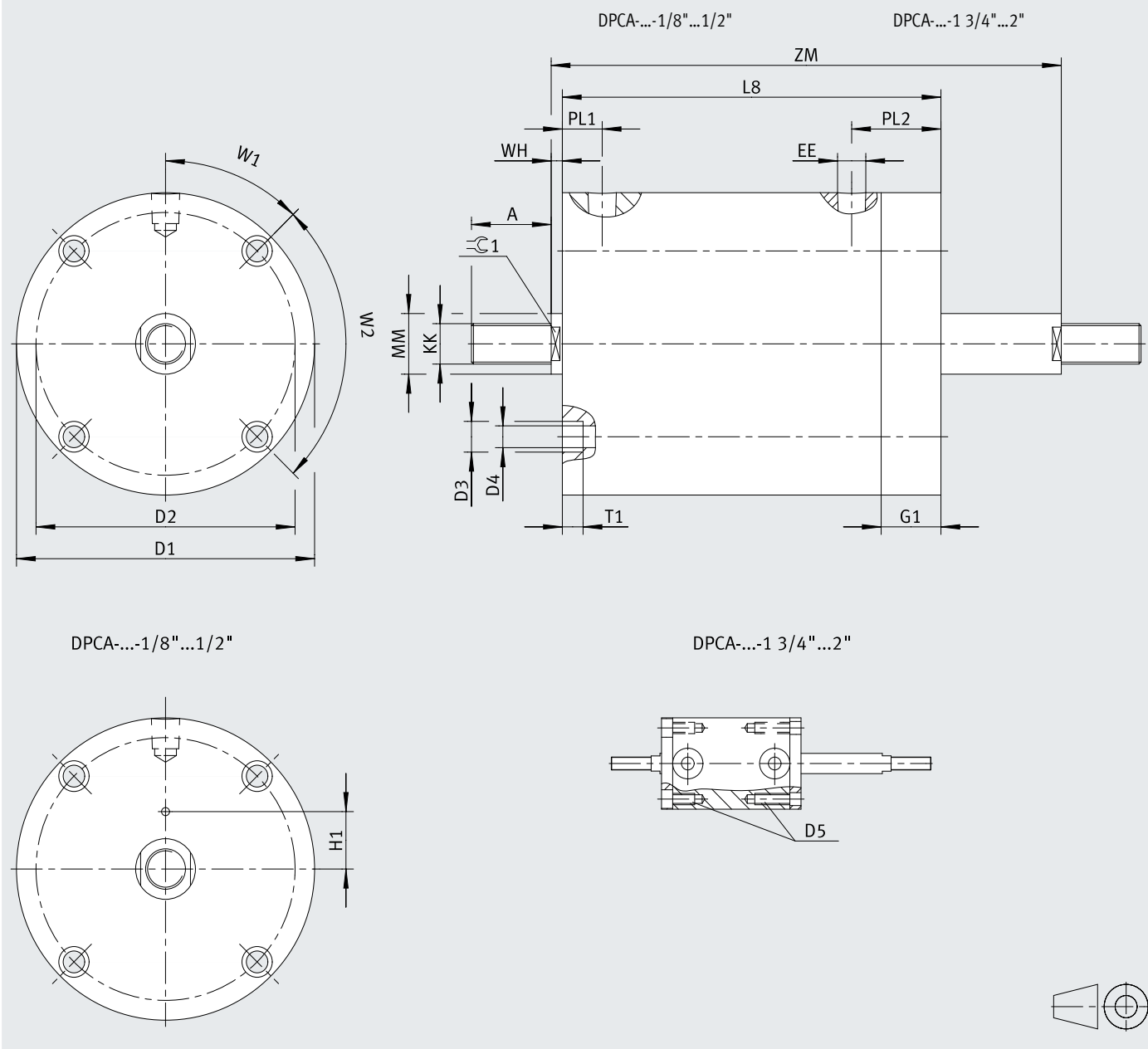
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$

Download CAD data → www.festo.com

[T] Through piston rod



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	D5	EE		G1	H1	KK	
								[N]				[N]
1/8	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	0.4	M8	5/16-24 UNF-2A
3/16	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	0.4	M8	5/16-24 UNF-2A
1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	0.4	M8	5/16-24 UNF-2A
1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	0.4	M8	5/16-24 UNF-2A
3/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A
1	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A
1 1/4	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A
1 1/2	0.75	1.99	1.69	0.32	0.2	–	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A
1 3/4	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A
2	0.75	1.99	1.69	–	–	10-32x0.5	G1/8	1/8 NPT	0.47	–	M8	5/16-24 UNF-2A

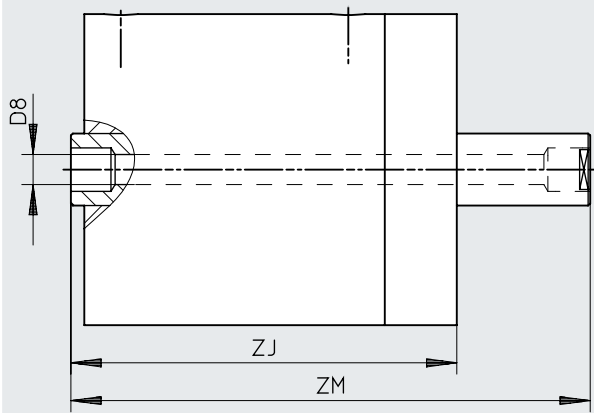
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	1.22	0.5	–	0.91	0.18	90°	–	0.14	1.625	0.44
3/16	1.22	0.5	–	0.91	0.18	90°	–	0.14	1.6875	0.44
1/4	1.22	0.5	–	0.91	0.18	90°	–	0.14	1.75	0.44
1/2	1.53	0.5	–	1	0.19	90°	–	0.14	2.31	0.44
3/4	2.22	0.5	0.38	0.84	0.19	90°	–	0.14	3.25	0.44
1	2.47	0.5	0.38	0.84	0.19	90°	–	0.14	3.75	0.44
1 1/4	3.16	0.5	0.56	0.85	0.2	90°	–	0.14	4.69	0.44
1 1/2	3.6	0.5	0.75	0.85	0.2	90°	–	0.14	5.38	0.44
1 3/4	4.19	0.5	0.38	0.84	–	90°	–	0.14	6.22	0.44
2	4.19	0.5	0.38	0.84	–	90°	–	0.14	6.47	0.44

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing$ 1 1/8 Download CAD data → www.festo.com

[H] Through, hollow piston rod



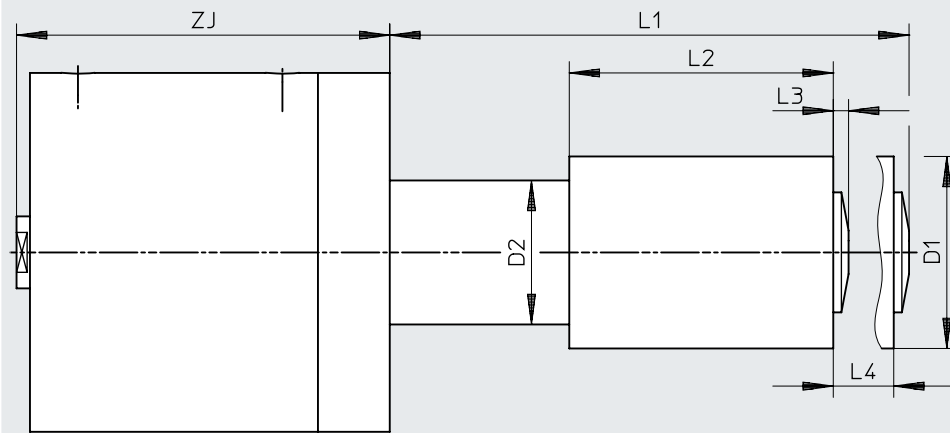
L ¹	D8 ø	ZJ	ZM
1/8	5/32	1.36	1.625
3/16	5/32	1.36	1.6875
1/4	5/32	1.36	1.75
1/2	5/32	1.67	2.31
3/4	5/32	2.11	3
1	5/32	2.36	3.5
1 1/4	5/32	2.61	4
1 1/2	5/32	2.86	4.5
1 3/4	5/32	3.3	5.19
2	5/32	3.74	5.88

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	1.5	1.13	1.4	0.63	0.14	0.5	1.36
3/16	1.5	1.13	1.53	0.69	0.15	0.5	1.36
1/4	1.5	1.13	1.66	0.75	0.16	0.5	1.36
1/2	1.5	1.13	2.16	1	0.16	0.5	1.67
3/4	1.5	1.13	2.66	1.25	0.16	0.5	2.36
1	1.5	1.13	3.16	1.5	0.16	0.5	2.61
1 1/4	1.5	1.13	3.66	1.75	0.16	0.5	3.3
1 1/2	1.5	1.13	4.16	2	0.16	0.5	3.74
1 3/4	1.5	1.13	4.66	2.25	0.16	0.5	4.33
2	1.5	1.13	5.16	2.5	0.16	0.5	4.33

1) L = Stroke

Datasheet

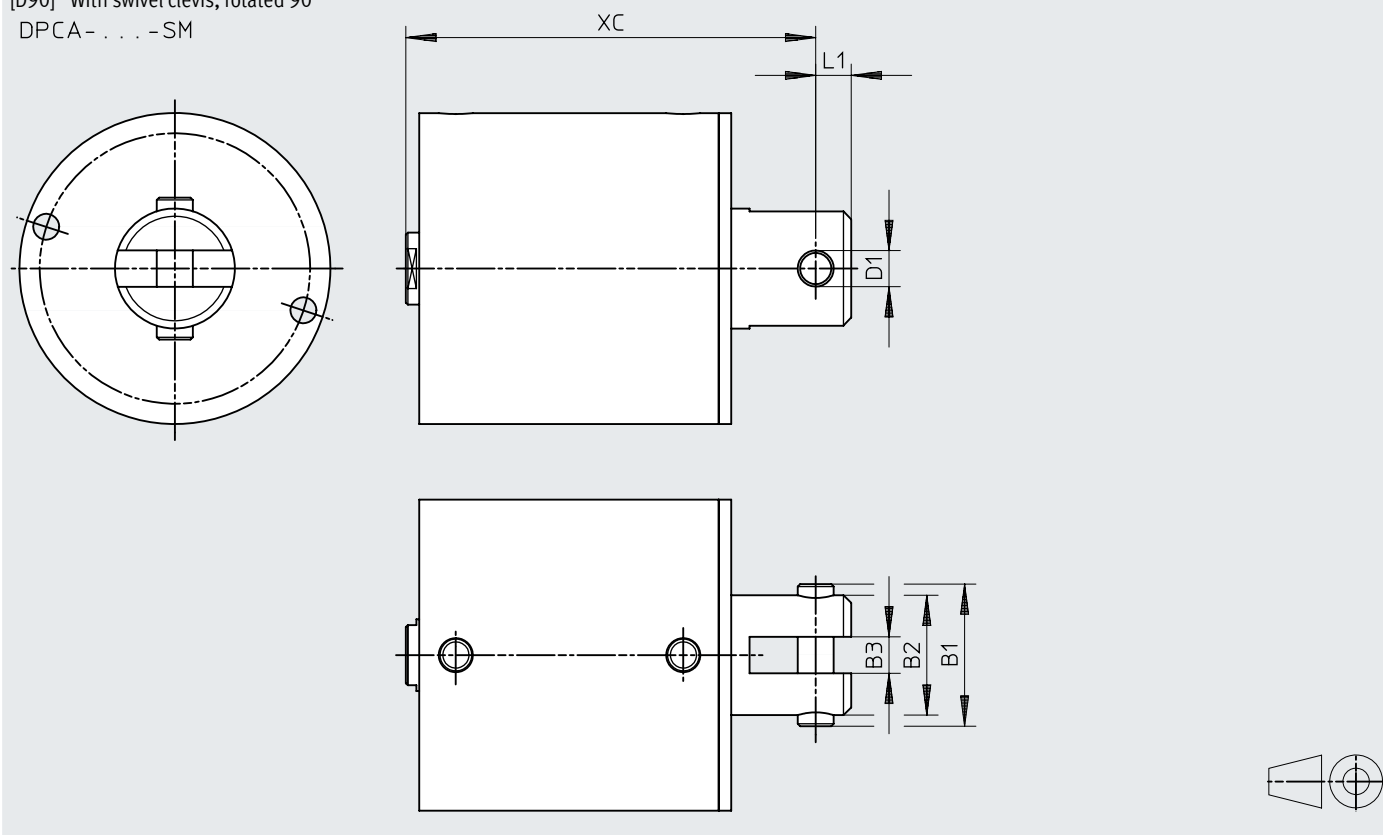
Dimensions – piston $\varnothing 1 \frac{1}{8}$

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA-...-SM



L ¹	B1	B2	B3	D1 ø	D2 ø	L1	XC			
	[D/D90]			[D/D90]			[S]	[L4-S]	[P]	[L4-P]
1/16	1.21	1	0.31	0.3125	1	0.37	–	1.83	–	2.14
1/8	1.21	1	0.31	0.3125	1	0.37	1.83	1.83	2.21	2.21
3/16	1.21	1	0.31	0.3125	1	0.37	1.83	–	2.27	–
1/4	1.21	1	0.31	0.3125	1	0.37	1.83	–	2.33	–
3/8	1.21	1	0.31	0.3125	1	0.37	–	2.14	–	2.77
1/2	1.21	1	0.31	0.3125	1	0.37	2.14	–	2.89	–
5/8	1.21	1	0.31	0.3125	1	0.37	–	2.83	–	3.71
3/4	1.21	1	0.31	0.3125	1	0.37	2.83	–	3.83	–
7/8	1.21	1	0.31	0.3125	1	0.37	–	3.08	–	4.21
1	1.21	1	0.31	0.3125	1	0.37	3.08	–	4.33	–
1 1/8	1.21	1	0.31	0.3125	1	0.37	–	3.76	–	5.14
1 1/4	1.21	1	0.31	0.3125	1	0.37	3.76	–	5.26	–
1 3/8	1.21	1	0.31	0.3125	1	0.37	–	4.2	–	5.83
1 1/2	1.21	1	0.31	0.3125	1	0.37	4.2	–	5.95	–
1 5/8	1.21	1	0.31	0.3125	1	0.37	–	4.8	–	–
1 3/4	1.21	1	0.31	0.3125	1	0.37	4.8	–	–	–
1 7/8	1.21	1	0.31	0.3125	1	0.37	–	4.8	–	–
2	1.21	1	0.31	0.3125	1	0.37	4.8	–	–	–

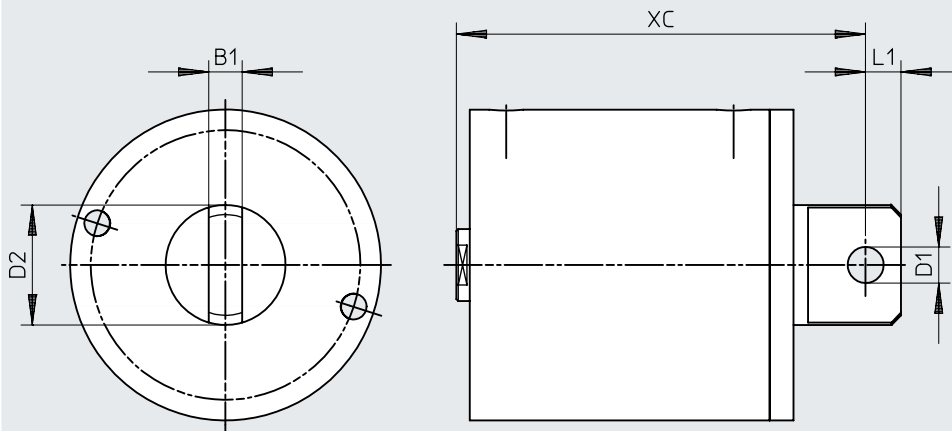
1) L = Stroke

Datasheet

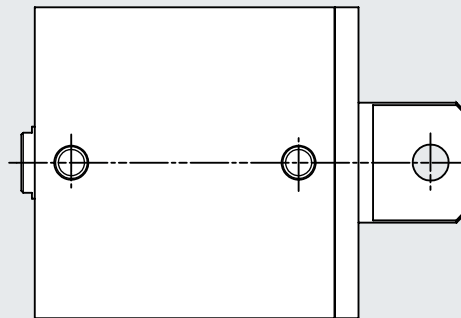
Dimensions – piston $\varnothing 1 \frac{1}{8}$ Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-ESM



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
	[U/U90]			[U/U90]			[S]	[L4-S]	[P]	[L4-P]
1/16	0.3	1	0.31	0.3135	1	0.37	–	1.83	–	2.14
1/8	0.3	1	0.31	0.3135	1	0.37	1.83	1.83	2.21	2.21
3/16	0.3	1	0.31	0.3135	1	0.37	1.83	–	2.27	–
1/4	0.3	1	0.31	0.3135	1	0.37	1.83	–	2.33	–
3/8	0.3	1	0.31	0.3135	1	0.37	–	2.14	–	2.77
1/2	0.3	1	0.31	0.3135	1	0.37	2.14	–	2.89	–
5/8	0.3	1	0.31	0.3135	1	0.37	–	2.83	–	3.71
3/4	0.3	1	0.31	0.3135	1	0.37	2.83	–	3.83	–
7/8	0.3	1	0.31	0.3135	1	0.37	–	3.08	–	4.21
1	0.3	1	0.31	0.3135	1	0.37	3.08	–	4.33	–
1 1/8	0.3	1	0.31	0.3135	1	0.37	–	3.76	–	5.14
1 1/4	0.3	1	0.31	0.3135	1	0.37	3.76	–	5.26	–
1 3/8	0.3	1	0.31	0.3135	1	0.37	–	4.2	–	5.83
1 1/2	0.3	1	0.31	0.3135	1	0.37	4.2	–	5.95	–
1 5/8	0.3	1	0.31	0.3135	1	0.37	–	4.8	–	–
1 3/4	0.3	1	0.31	0.3135	1	0.37	4.8	–	–	–
1 7/8	0.3	1	0.31	0.3135	1	0.37	–	4.8	–	–
2	0.3	1	0.31	0.3135	1	0.37	4.8	–	–	–

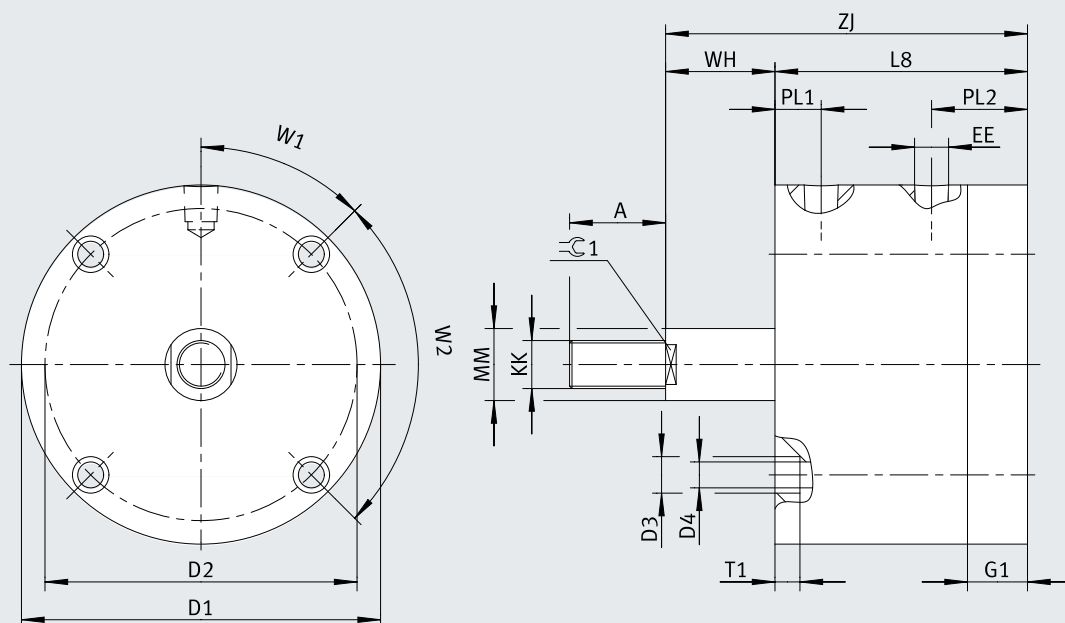
1) L = Stroke

Datasheet

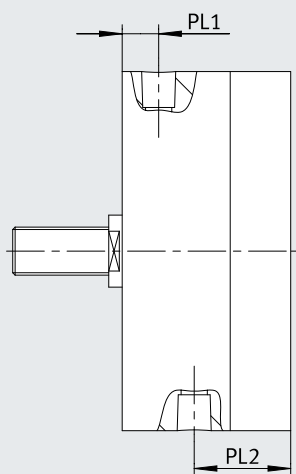
Dimensions – piston $\varnothing 1 \frac{5}{8}$

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)



DPCA-...-1/8" ... 1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1		KK	
							[N]		[L4]		[N]
1/8	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.5	–	M10	3/8-24 UNF-2A
1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.5	0.5	M10	3/8-24 UNF-2A
1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.5	0.5	M10	3/8-24 UNF-2A
3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.5	0.63	M10	3/8-24 UNF-2A
1	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.63	–	M10	3/8-24 UNF-2A

L ¹	L8		MM ø	PL1		PL2		T1		W1	W2	WH	ZJ		⌀ 1
		[L4]			[L4]		[L4]		[L4]					[L4]	
1/8	1.385	–	0.62	0.505	–	0.88	–	0.195	–	90°	–	0.265	1.65	–	0.5
1/4	1.5	2	0.62	0.5	0.38	1	0.87	0.18	0.18	90°	–	0.39	1.89	2.39	0.5
1/2	2	2.25	0.62	0.38	0.38	0.87	0.82	0.18	0.18	90°	–	0.64	2.64	2.89	0.5
3/4	2.25	2.69	0.62	0.38	0.38	0.87	1	0.18	0.19	90°	–	0.89	3.14	3.58	0.5
1	2.69	–	0.62	0.38	–	1	–	0.19	–	90°	–	1.14	3.83	–	0.5

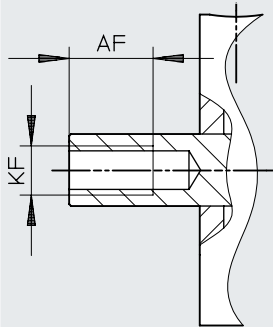
1) L = Stroke

Dimensions – piston ø 1 5/8

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF		KF	
			[L4]		[N]
1/8	0.38	–	–	M10	3/8-24 UNF-2B
1/4	0.44	0.63	–	M10	3/8-24 UNF-2B
3/8	–	–	–	M10	3/8-24 UNF-2B
1/2	0.63	0.63	–	M10	3/8-24 UNF-2B
3/4	0.63	0.75	–	M10	3/8-24 UNF-2B
1	0.75	–	–	M10	3/8-24 UNF-2B

1) L = Stroke

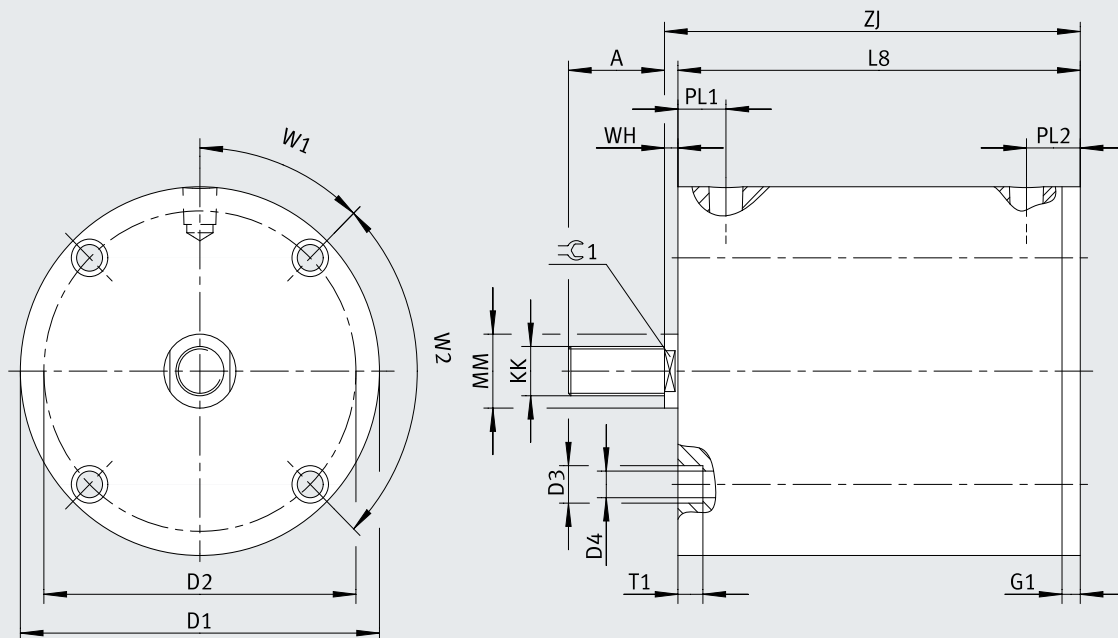
Datasheet

Dimensions – piston Ø 1 5/8

Download CAD data → www.festo.com

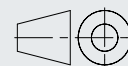
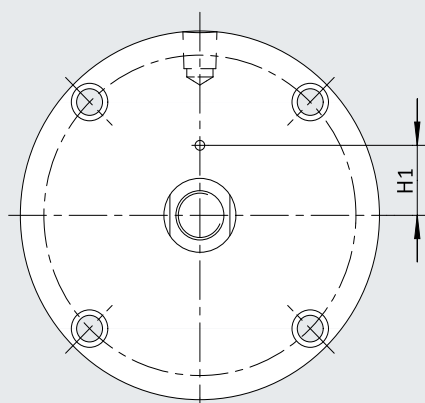
[S] Single-acting, pushing (piston rod retracted by spring force)

DPCA-...-1/8" ...1"
DPCA-...-L4-...-1/4" ...3/4"



DPCA-...-1/8" ...1"

DPCA-...-L4-...-1/4" ...3/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1		KK	
							[N]			[L4]		[N]
1/8	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.66	–	M10	3/8-24 UNF-2A
1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.66	0.66	M10	3/8-24 UNF-2A
1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.66	0.66	M10	3/8-24 UNF-2A
3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.66	0.66	M10	3/8-24 UNF-2A
1	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	0.66	–	M10	3/8-24 UNF-2A
1 1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	–	M10	3/8-24 UNF-2A
1 1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.13	–	–	M10	3/8-24 UNF-2A

L ¹	L8		MM ø	PL1	PL2	T1	W1	W2	WH	ZJ		≈ 1
		[L4]									[L4]	
1/8	1	–	0.62	–	0.5	0.19	90°	–	0.14	1.14	–	0.5
1/4	1.13	1.63	0.62	–	0.5	0.19	90°	–	0.14	1.27	1.77	0.5
1/2	1.68	1.88	0.62	–	0.5	0.19	90°	–	0.14	1.77	2.02	0.5
3/4	1.88	2.19	0.62	–	0.5	0.19	90°	–	0.14	2.02	2.33	0.5
1	2.19	–	0.62	–	0.5	0.19	90°	–	0.14	2.33	–	0.5
1 1/4	–	4.19	0.62	0.38	0.5	0.19	90°	–	0.14	–	4.33	0.5
1 1/2	4.19	–	0.62	0.38	0.5	0.19	90°	–	0.14	4.33	–	0.5

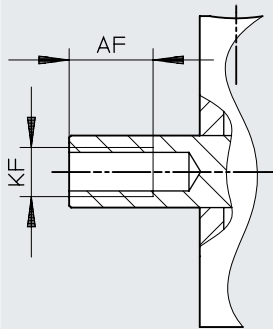
1) L = Stroke

Dimensions – piston ø 1 5/8

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread



L ¹	AF	AF		KF	
			[L4]		[N]
1/8	0.38	–		M10	3/8-24 UNF-2B
1/4	0.44	0.63		M10	3/8-24 UNF-2B
1/2	0.63	0.63		M10	3/8-24 UNF-2B
3/4	0.63	0.75		M10	3/8-24 UNF-2B
1	0.75	–		M10	3/8-24 UNF-2B
1 1/4	–	0.75		M10	3/8-24 UNF-2B
1 1/2	0.75	–		M10	3/8-24 UNF-2B

1) L = Stroke

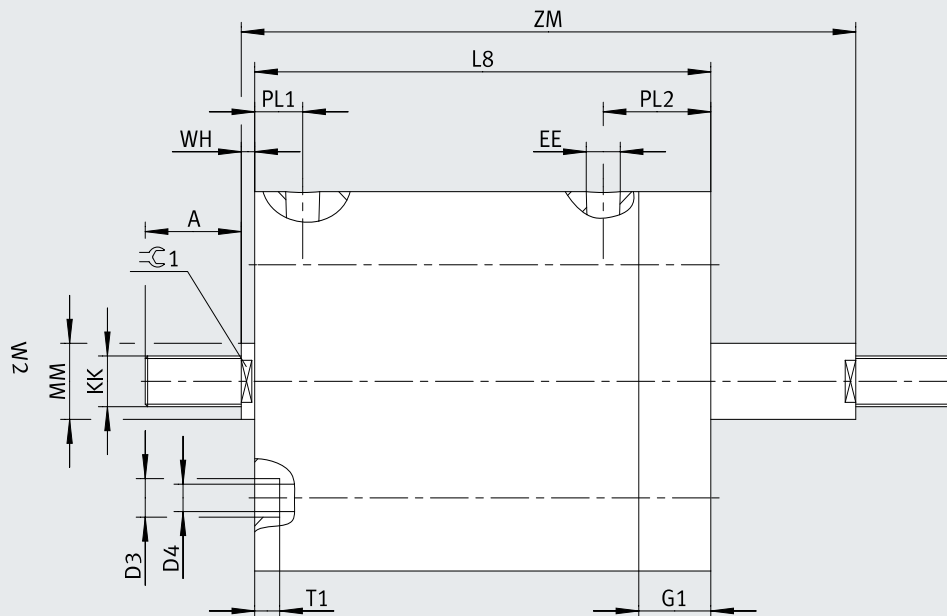
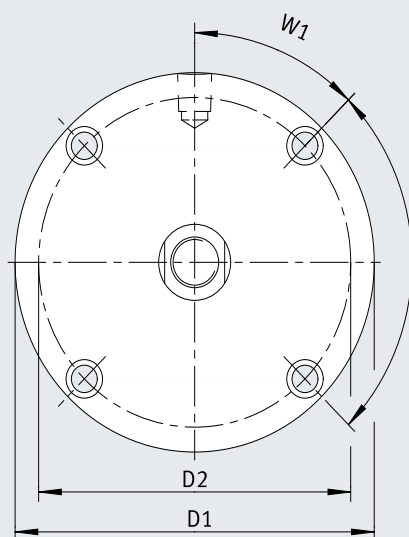
Datasheet

Dimensions – piston $\varnothing 1 \frac{5}{8}$

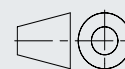
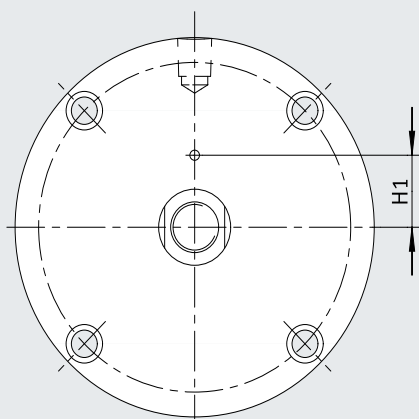
Download CAD data → www.festo.com

[T] Through piston rod

DPCA-...-1/8" ...1"



DPCA-...-1/8" ...1"



Datasheet

L ¹	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE		G1	H1	KK	
							[N]				[N]
1/8	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	0.66	M10	3/8-24 UNF-2A
1/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	0.66	M10	3/8-24 UNF-2A
1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	0.66	M10	3/8-24 UNF-2A
3/4	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	0.66	M10	3/8-24 UNF-2A
1	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	0.66	M10	3/8-24 UNF-2A
1 1/2	0.88	2.74	2.38	0.32	0.2	G1/8	1/8 NPT	0.6	–	M10	3/8-24 UNF-2A

L ¹	L8	MM ∅	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	1.47	0.62	–	0.97	0.19	90°	–	0.14	1.875	0.5
1/4	1.6	0.62	–	0.97	0.19	90°	–	0.14	2.13	0.5
1/2	2.1	0.62	–	0.97	0.19	90°	–	0.14	2.88	0.5
3/4	2.35	0.62	–	0.97	0.19	90°	–	0.14	3.38	0.5
1	2.66	0.62	–	0.97	0.19	90°	–	0.14	3.94	0.5
1 1/2	4.66	0.62	0.38	0.97	0.19	90°	–	0.14	6.44	0.5

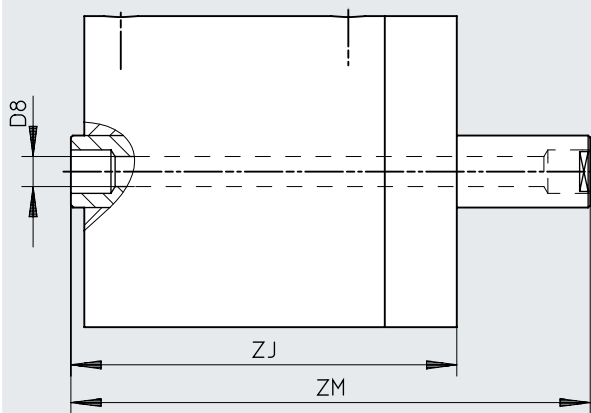
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1\frac{5}{8}$

Download CAD data → www.festo.com

[H] Through, hollow piston rod



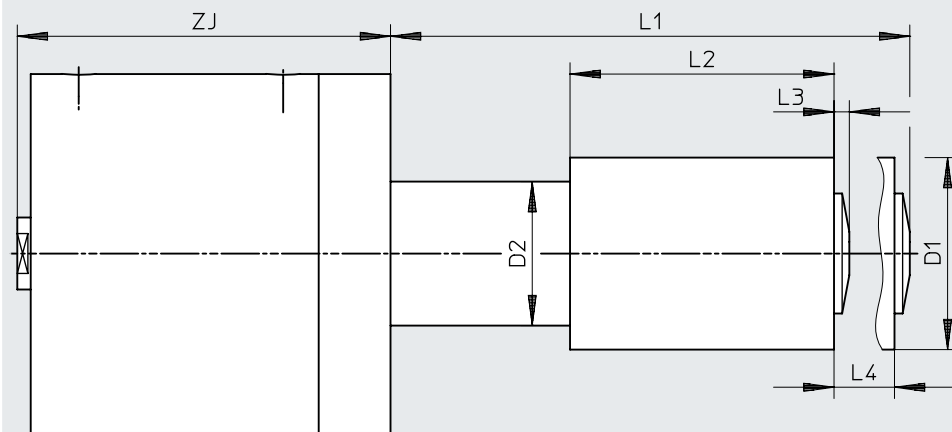
L ¹	D8 $\varnothing$	ZJ	ZM
1/8	1/4	1.61	1.875
1/4	1/4	1.74	2.13
1/2	1/4	2.24	2.88
3/4	1/4	2.49	3.38
1	1/4	2.8	3.94
1 1/2	1/4	3.3	4.94

1) L = Stroke

Dimensions – piston $\varnothing 1\frac{5}{8}$

Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 $\varnothing$	D2 $\varnothing$	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.4	0.63	0.14	0.5	1.61
1/4	2	1.5	1.66	0.75	0.16	0.5	1.74
1/2	2	1.5	2.16	1	0.16	0.5	2.24
3/4	2	1.5	2.66	1.25	0.16	0.5	2.49
1	2	1.5	3.16	1.5	0.16	0.5	2.8
1 1/2	2	1.5	4.16	2	0.16	0.5	4.8

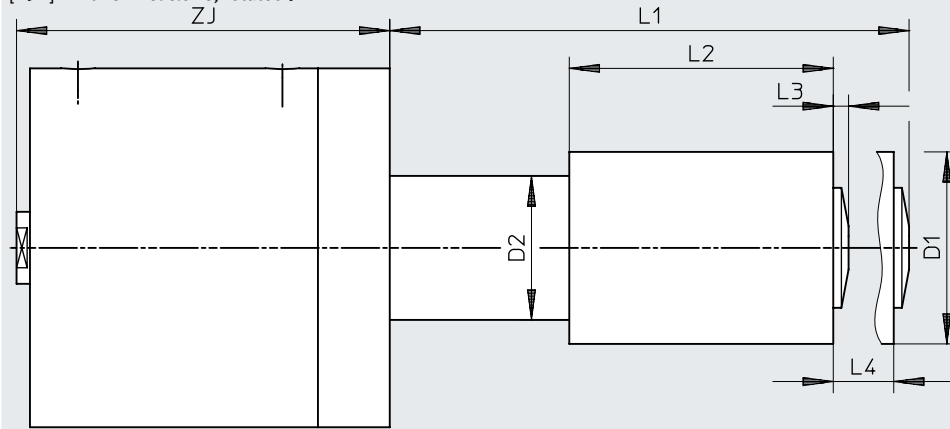
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 1 \frac{5}{8}$ Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
	[D/D90]			[D/D90]			[S]	[L4-S]	[P]	[L4-P]
1/8	1.48	1.25	0.38	0.375	1.25	0.37	2.02	–	2.59	–
1/4	1.48	1.25	0.38	0.375	1.25	0.37	2.15	2.65	2.83	3.33
1/2	1.48	1.25	0.38	0.375	1.25	0.37	2.65	2.9	3.58	3.83
3/4	1.48	1.25	0.38	0.375	1.25	0.37	2.9	3.21	4.08	4.39
1	1.48	1.25	0.38	0.375	1.25	0.37	3.21	–	4.64	–
1 1/4	1.48	1.25	0.38	0.375	1.25	0.37	–	5.21	–	–
1 1/2	1.48	1.25	0.38	0.375	1.25	0.37	5.21	–	–	–

1) L = Stroke

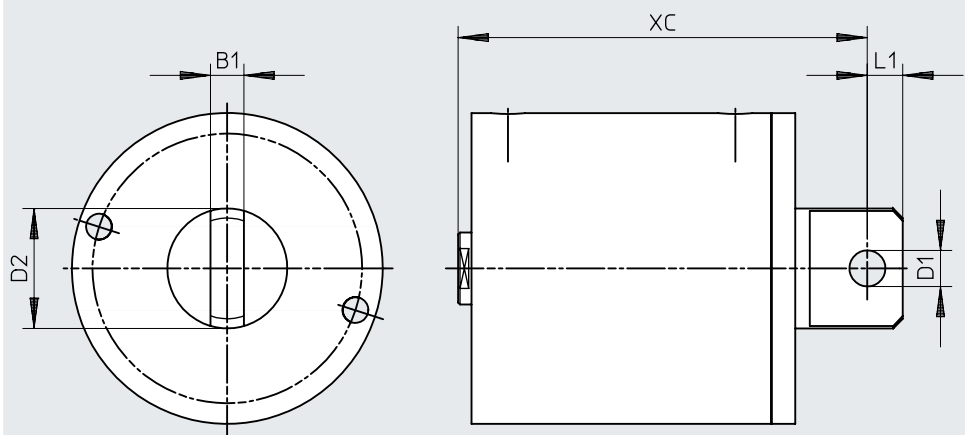
Datasheet

Dimensions – piston $\varnothing 1\frac{5}{8}$

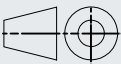
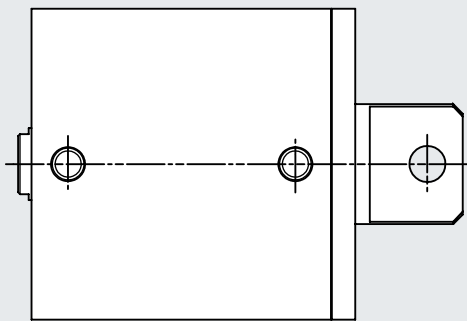
Download CAD data → www.festo.com

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-ESM



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
	[U/U90]			[U/U90]			[S]	[L4-S]	[P]	[L4-P]
1/8	0.35	1.25	0.38	0.376	1.25	0.37	2.02	–	2.59	–
1/4	0.35	1.25	0.38	0.376	1.25	0.37	2.15	2.65	2.83	3.33
1/2	0.35	1.25	0.38	0.376	1.25	0.37	2.65	2.9	3.58	3.83
3/4	0.35	1.25	0.38	0.376	1.25	0.37	2.9	3.21	4.08	4.39
1	0.35	1.25	0.38	0.376	1.25	0.37	3.21	–	4.64	–
1 1/4	0.35	1.25	0.38	0.376	1.25	0.37	–	5.21	–	–
1 1/2	0.35	1.25	0.38	0.376	1.25	0.37	5.21	–	–	–

1) L = Stroke

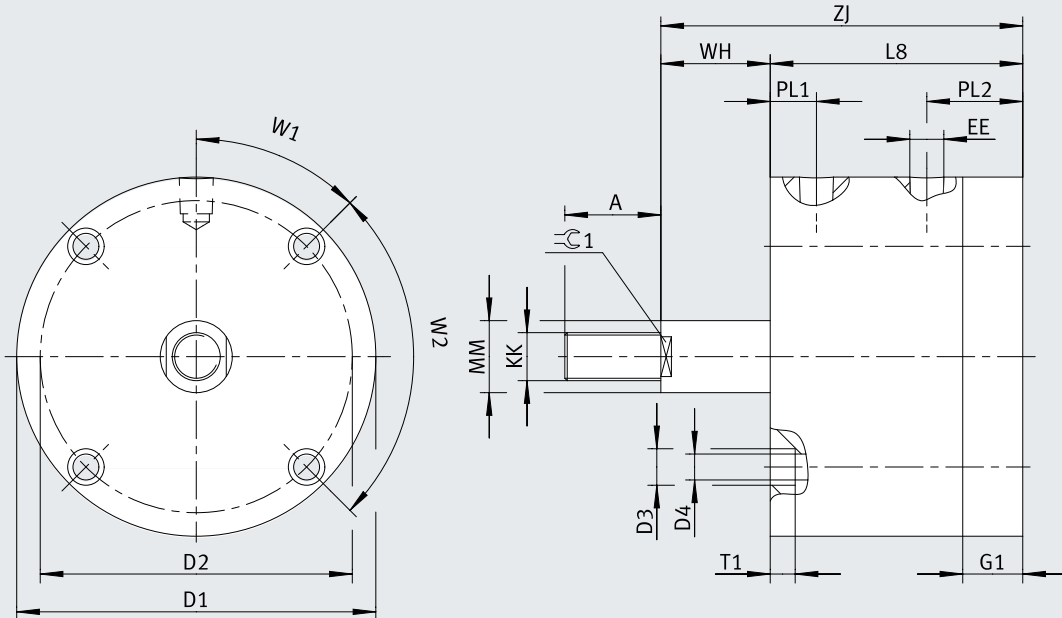
Datasheet

Dimensions – piston $\varnothing 2$ Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

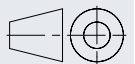
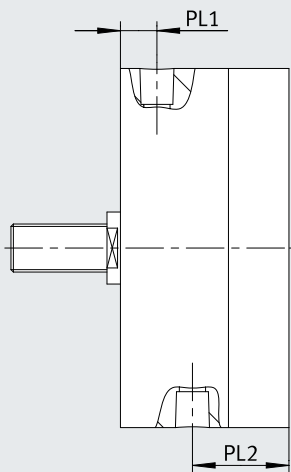
DPCA-...-1/8" ... 3/8"

DPCA-...-L4-...-1/8"



DPCA-...-1/8" ... 3/8"

DPCA-...-L4-...-1/8"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1		KK	
							[N]		[L4]		[N]
1/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.5	0.5	M12	1/2-20 UNF-2A
1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.5	0.5	M12	1/2-20 UNF-2A
3/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.5	–	M12	1/2-20 UNF-2A
1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.5	0.5	M12	1/2-20 UNF-2A
3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.5	0.63	M12	1/2-20 UNF-2A
1	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.63	–	M12	1/2-20 UNF-2A

L ¹	L8		MM ø	PL1		PL2		T1		W1	W2	WH	Z)		≈G 1
		[L4]			[L4]		[L4]		[L4]					[L4]	
1/8	1.445	1.695	0.75	0.385	0.385	0.88	0.88	0.265	0.265	72°	–	0.265	1.71	1.96	0.63
1/4	1.57	1.88	0.75	0.38	0.38	0.88	0.94	0.27	0.26	72°	–	0.39	1.96	2.27	0.63
3/8	1.695	–	0.75	0.385	–	0.88	–	0.265	–	72°	–	0.515	2.21	–	0.63
1/2	1.88	2.25	0.75	0.38	0.38	0.88	1.25	0.26	0.26	72°	–	0.64	2.52	2.89	0.63
3/4	2.25	2.72	0.75	0.38	0.36	0.87	1.34	0.26	0.23	72°	–	0.89	3.14	3.61	0.63
1	2.75	–	0.75	0.38	–	1	–	0.26	–	72°	–	1.14	3.89	–	0.63

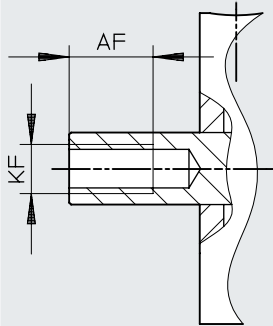
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2$ Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/16	–	–	M12	1/2-20 UNF-2B
1/8	0.4	0.63	M12	1/2-20 UNF-2B
1/4	0.5	0.63	M12	1/2-20 UNF-2B
3/8	0.63	–	M12	1/2-20 UNF-2B
1/2	0.63	0.75	M12	1/2-20 UNF-2B
5/8	–	–	M12	1/2-20 UNF-2B
3/4	0.75	0.88	M12	1/2-20 UNF-2B
1	0.88	–	M12	1/2-20 UNF-2B

1) L = Stroke

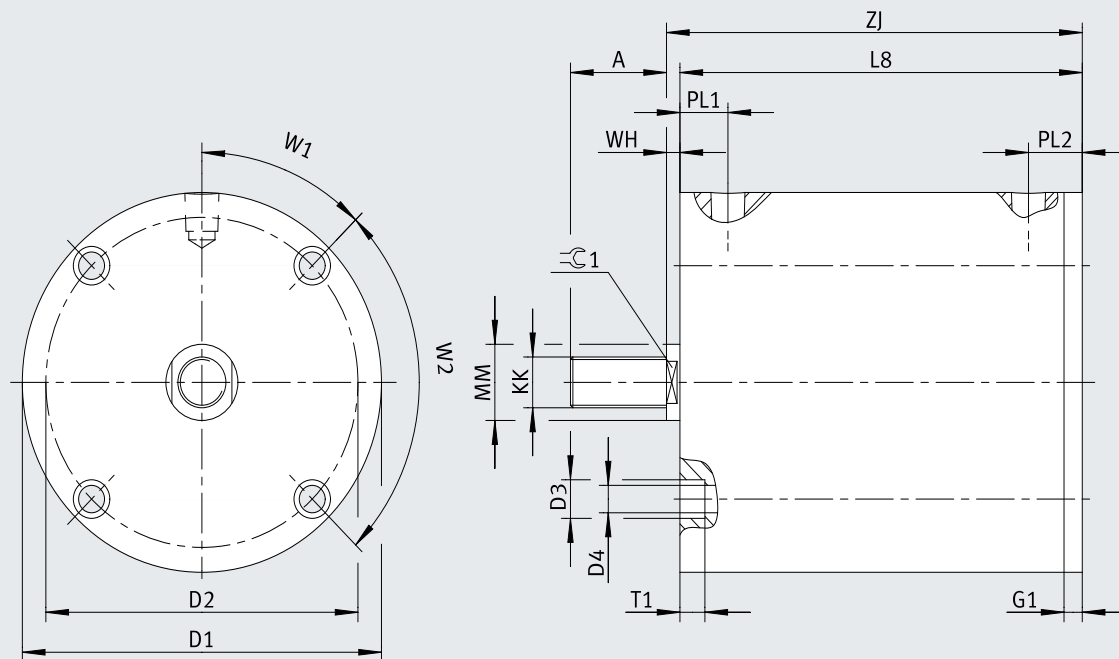
Datasheet

Dimensions – piston $\varnothing 2$

Download CAD data → www.festo.com

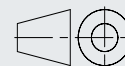
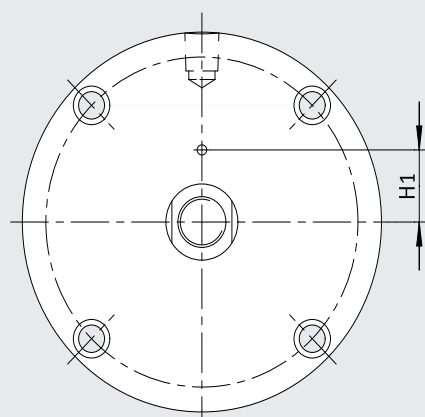
[S] Single-acting, pushing (piston rod retracted by spring force)

DPCA-...-1/8" ...1"
DPCA-...-L4-...-1/8" ...3/4"



DPCA-...-1/8" ...1"

DPCA-...-L4-...-1/8" ...3/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1		KK	
							[N]			[L4]		[N]
1/8 ... 1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.71	0.71	M12	1/2-20 UNF-2A
3/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.71	–	M12	1/2-20 UNF-2A
1/2 ... 3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.71	0.71	M12	1/2-20 UNF-2A
1	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	0.71	–	M12	1/2-20 UNF-2A
1 1/4 ... 1 1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.13	–	–	M12	1/2-20 UNF-2A

L ¹	L8		MM ø	PL1	PL2	T1	W1	W2	WH	ZJ		≈ 1
		[L4]									[L4]	
1/8	1.06	1.31	0.75	–	0.5	0.26	72°	–	0.14	1.2	1.45	0.63
1/4	1.19	1.5	0.75	–	0.5	0.26	72°	–	0.14	1.33	1.64	0.63
3/8	1.31	–	0.75	–	0.5	0.26	72°	–	0.14	1.45	–	0.63
1/2	1.5	1.88	0.75	–	0.5	0.26	72°	–	0.14	1.64	2.02	0.63
3/4	1.88	2.25	0.75	–	0.5	0.26	72°	–	0.14	2.02	2.39	0.63
1	2.25	–	0.75	–	0.5	0.26	72°	–	0.14	2.39	–	0.63
1 1/4	–	4.25	0.75	0.38	0.5	0.26	72°	–	0.14	–	4.39	0.63
1 1/2	4.25	–	0.75	0.38	0.5	0.26	72°	–	0.14	4.39	–	0.63

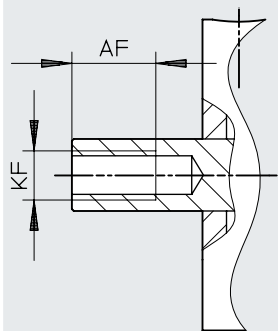
1) L = Stroke

Datasheet

Dinmensions – piston $\varnothing 2$ Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/8	0.4	0.63	M12	1/2-20 UNF-2B
1/4	0.5	0.63	M12	1/2-20 UNF-2B
3/8	0.63	–	M12	1/2-20 UNF-2B
1/2	0.63	0.75	M12	1/2-20 UNF-2B
3/4	0.75	0.88	M12	1/2-20 UNF-2B
1	0.88	–	M12	1/2-20 UNF-2B
1 1/4	–	0.88	M12	1/2-20 UNF-2B
1 1/2	0.88	–	M12	1/2-20 UNF-2B

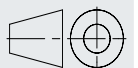
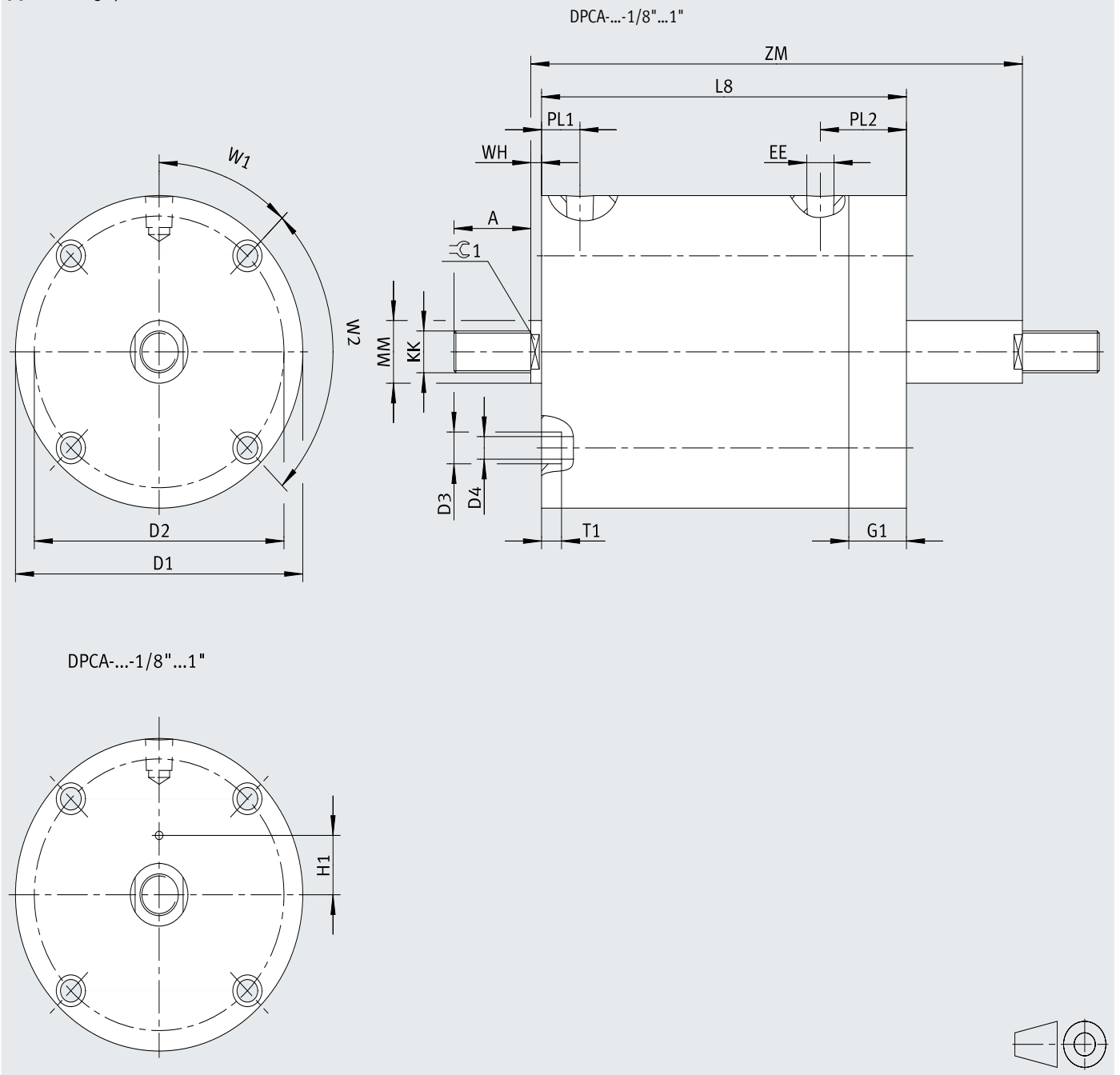
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2$

Download CAD data → www.festo.com

[T] Through piston rod



Datasheet

L ¹	A	D1 Ø	D2 Ø	D3 Ø	D4 Ø	EE		G1	H1	KK	
							[N]				[N]
1/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
3/8	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
3/4	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1 1/2	1	3.24	2.81	0.38	0.27	G1/8	1/8 NPT	0.75	–	M12	1/2-20 UNF-2A

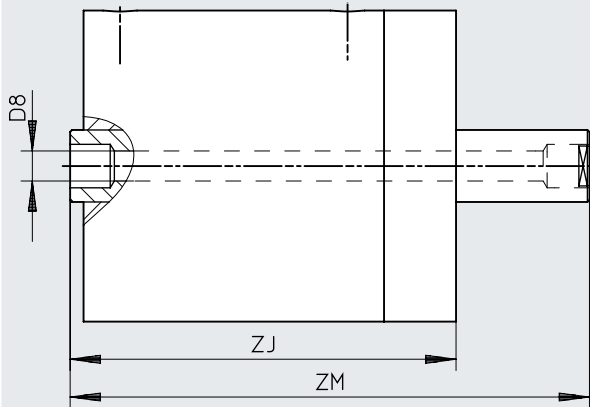
L ¹	L8	MM Ø	PL1	PL2	T1	W1	W2	WH	ZM	≈C 1
1/8	1.69	0.75	–	1.13	0.25	72°	–	0.14	2.095	0.63
1/4	1.81	0.75	–	1.12	0.25	72°	–	0.14	2.34	0.63
3/8	1.94	0.75	–	1.13	0.25	72°	–	0.14	2.595	0.63
1/2	2.13	0.75	–	1.13	0.24	72°	–	0.14	2.91	0.63
3/4	2.5	0.75	–	1.12	0.25	72°	–	0.14	3.53	0.63
1	2.88	0.75	–	1.13	0.25	72°	–	0.14	4.16	0.63
1 1/2	4.88	0.75	0.38	1.13	0.25	72°	–	0.14	6.66	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



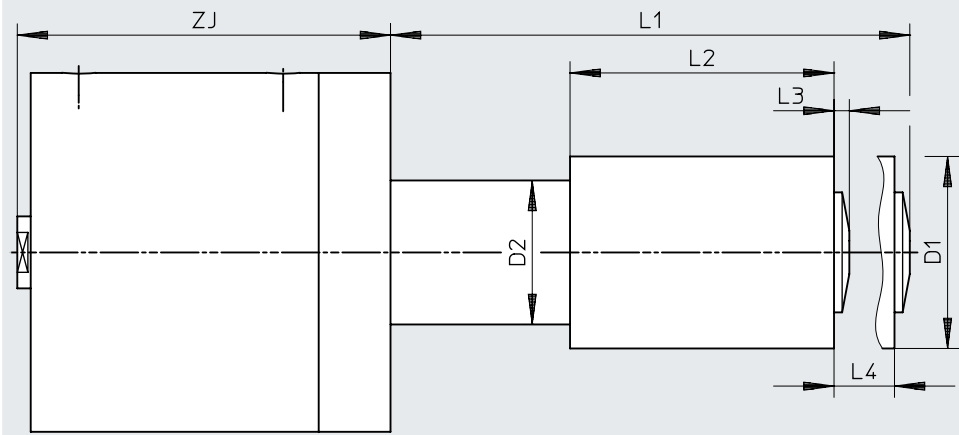
L ¹	D8 Ø	ZJ	ZM
1/8	5/16	1.83	1.345
1/4	5/16	1.95	1.59
3/8	5/16	2.08	1.845
1/2	5/16	2.27	2.16
3/4	5/16	2.64	2.78
1	5/16	3.02	3.41
1 1/2	5/16	3.52	4.41

1) L = Stroke

Datasheet

Dinmensions – piston Ø 2 Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	1.83
1/4	2	1.5	1.91	1	0.16	0.63	1.95
3/8	2	1.5	2.17	1.13	0.16	0.63	2.08
1/2	2	1.5	2.41	1.25	0.16	0.63	2.27
3/4	2	1.5	2.91	1.5	0.16	0.63	2.64
1	2	1.5	3.41	1.75	0.16	0.63	3.02
1 1/2	2	1.5	4.41	2.25	0.16	0.63	5.02

1) L = Stroke

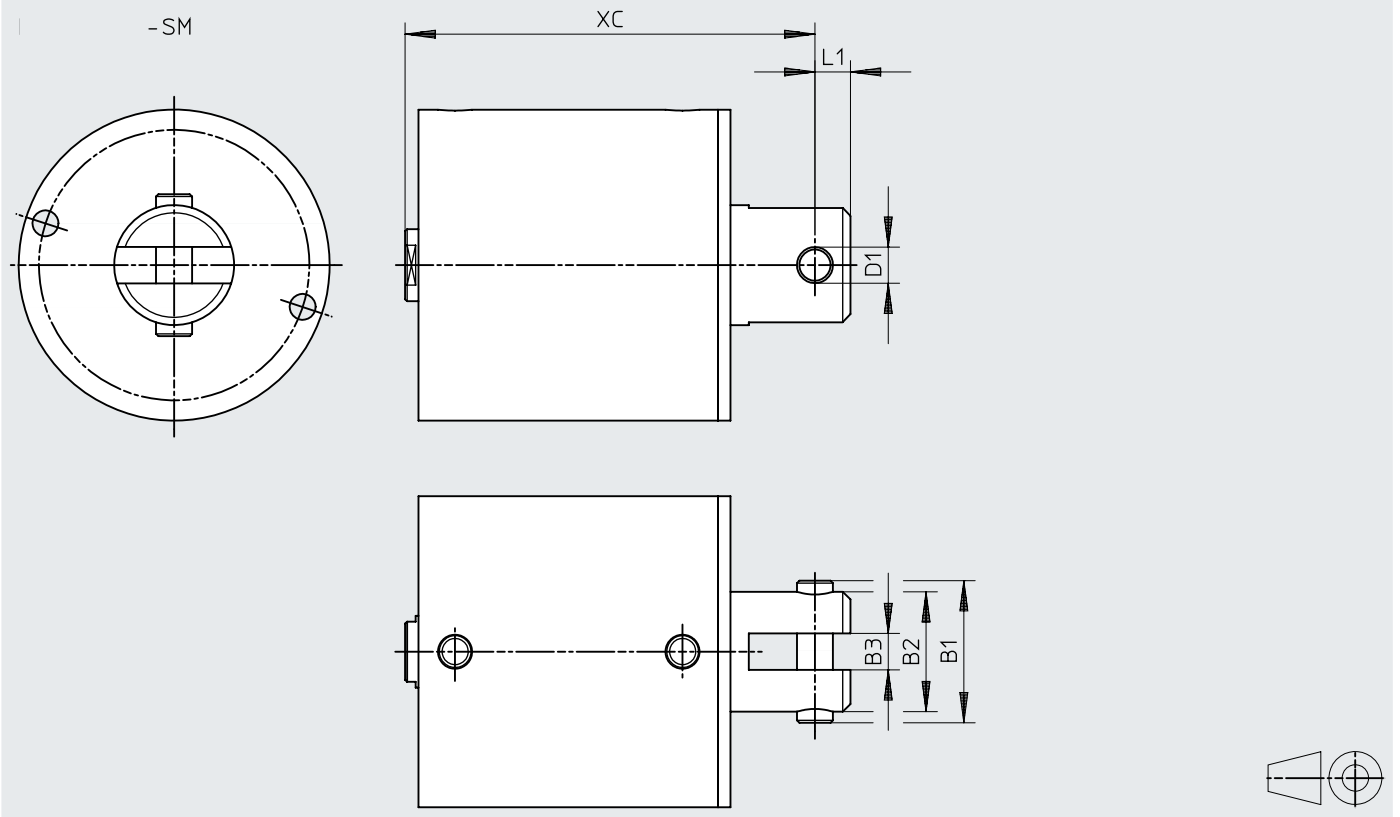
Datasheet

Dimensions – piston Ø 2

Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
	[D/D90]			[D/D90]			[S]	[L4-S]	[P]	[L4-P]
1/8	1.48	1.25	0.38	0.375	1.25	0.37	2.08	2.33	2.65	2.9
1/4	1.48	1.25	0.38	0.375	1.25	0.37	2.21	2.52	2.9	3.21
3/8	1.48	1.25	0.38	0.375	1.25	0.37	2.33	–	3.15	–
1/2	1.48	1.25	0.38	0.375	1.25	0.37	2.52	2.9	3.46	3.83
3/4	1.48	1.25	0.38	0.375	1.25	0.37	2.9	3.27	4.08	4.42
1	1.48	1.25	0.38	0.375	1.25	0.37	3.27	–	4.7	–
1 1/4	1.48	1.25	0.38	0.375	1.25	0.37	–	5.27	–	–
1 1/2	1.48	1.25	0.38	0.375	1.25	0.37	5.27	–	–	–

1) L = Stroke

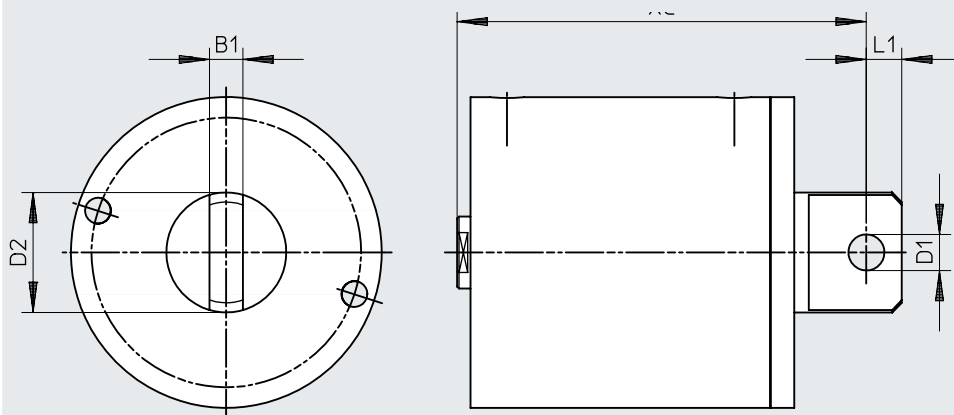
Datasheet

Dimensions – piston Ø 2

Download CAD data → www.festo.com

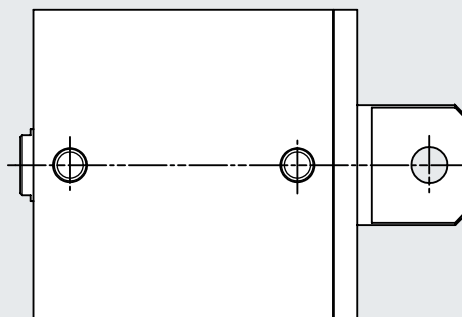
[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



DPCA-...-U90

DPCA-...-ESM



L ¹	B1	B2	B3	D1 Ø	D2 Ø	L1	XC			
	[U/U90]			[U/U90]			[S]	[L4-S]	[P]	[L4-P]
1/8	0.35	1.25	0.38	0.376	1.25	0.37	2.08	2.33	2.65	2.9
1/4	0.35	1.25	0.38	0.376	1.25	0.37	2.21	2.52	2.9	3.21
3/8	0.35	1.25	0.38	0.376	1.25	0.37	2.33	–	3.15	–
1/2	0.35	1.25	0.38	0.376	1.25	0.37	2.52	2.9	3.46	3.83
3/4	0.35	1.25	0.38	0.376	1.25	0.37	2.9	3.27	4.08	4.42
1	0.35	1.25	0.38	0.376	1.25	0.37	3.27	–	4.7	–
1 1/4	0.35	1.25	0.38	0.376	1.25	0.37	–	5.27	–	–
1 1/2	0.35	1.25	0.38	0.376	1.25	0.37	5.27	–	–	–

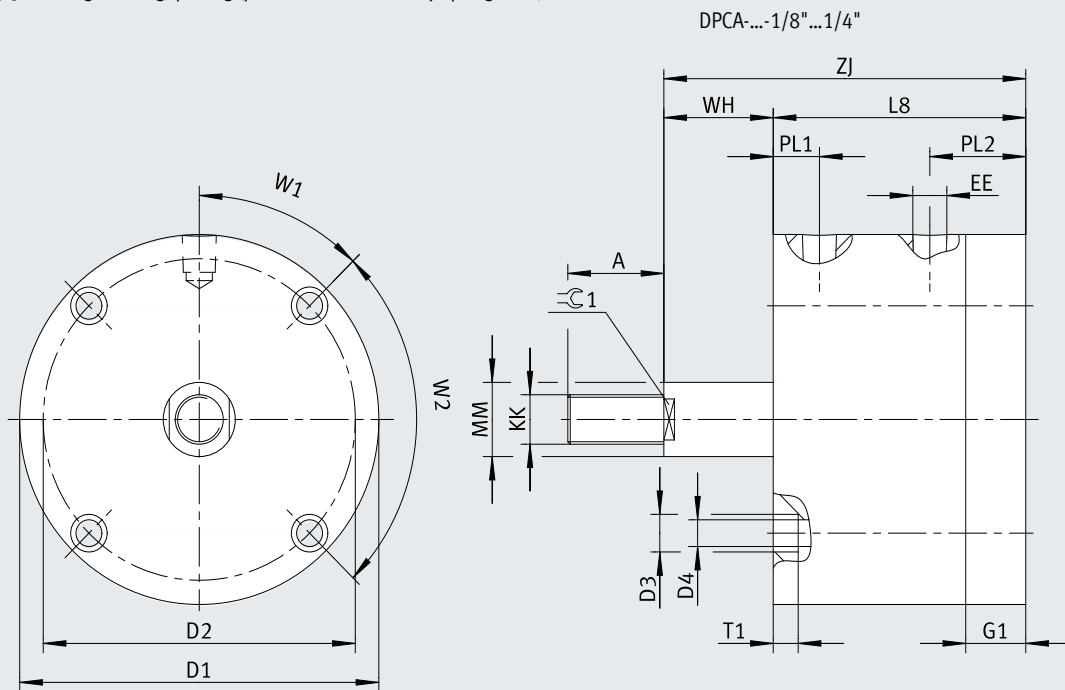
1) L = Stroke

Datasheet

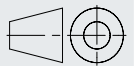
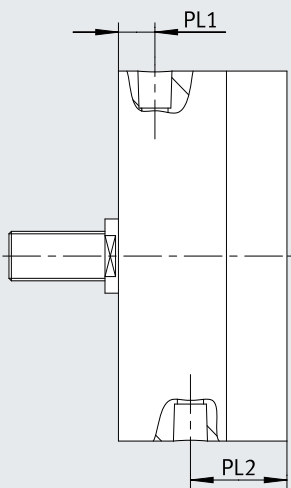
Dimensions – piston Ø 2 1/2

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)



DPCA-...-1/8" ...1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A

L ¹	L8		MM ø	PL1		PL2		T1		W1	W2	WH	ZJ		≈ 1
		[L4]			[L4]		[L4]		[L4]					[L4]	
1/8	1.755	–	0.75	0.385	–	1	–	0.265	–	45°	90°	0.265	2.02	–	0.63
1/4	1.88	2.19	0.75	0.38	0.38	1	1.06	0.26	0.32	45°	90°	0.39	2.27	2.58	0.63
1/2	2.13	2.5	0.75	0.38	0.5	1	1	0.26	0.26	45°	90°	0.64	2.77	3.14	0.63
3/4	2.5	2.63	0.75	0.51	0.5	1	1	0.26	0.26	45°	90°	0.89	3.39	3.52	0.63
1	2.63	–	0.75	0.5	–	1	–	0.26	–	45°	90°	1.14	3.77	–	0.63

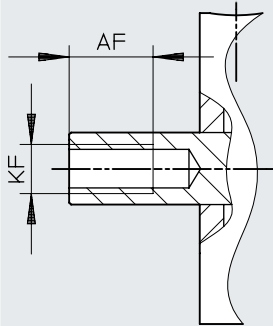
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2 \frac{1}{2}$ Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L¹	AF	AF	KF	
		[L4]		[N]
1/8	0.56	–	M12	1/2-20 UNF-2B
1/4	0.63	0.63	M12	1/2-20 UNF-2B
1/2	0.63	0.88	M12	1/2-20 UNF-2B
3/4	0.88	0.88	M12	1/2-20 UNF-2B
1	0.88	–	M12	1/2-20 UNF-2B

1) L = Stroke

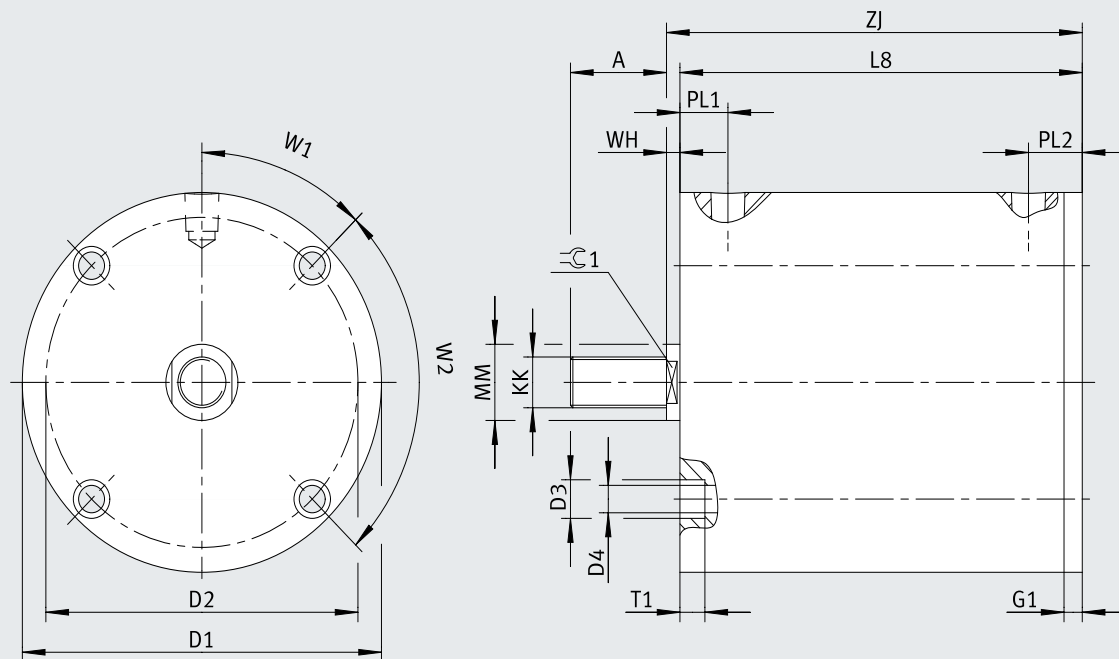
Datasheet

Dimensions – piston Ø 2 1/2"

Download CAD data → www.festo.com

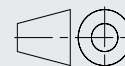
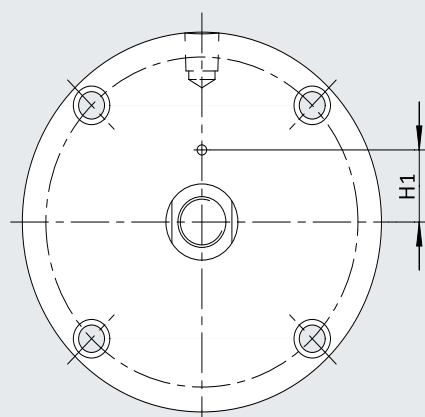
[S] Single-acting, pushing (piston rod retracted by spring force)

DPCA-...-1/8" ...1"
DPCA-...-L4-...-1/4" ...3/4"



DPCA-...-1/8" ...1"

DPCA-...-L4-...-1/4" ...3/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1		KK	
							[N]			[L4]		[N]
1/8	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	–	M12	1/2-20 UNF-2A
1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
1	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	–	M12	1/2-20 UNF-2A
1 1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	–	M12	1/2-20 UNF-2A
1 1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.19	–	–	M12	1/2-20 UNF-2A

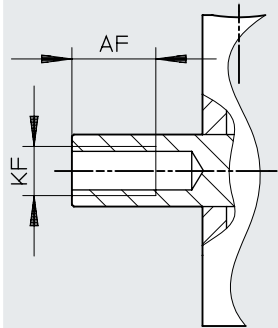
L ¹	L8		MM ø	PL1	PL2	T1		W1	W2	WH	Z)		≈ 1
		[L4]					[L4]					[L4]	
1/8	1.31	–	0.75	–	0.56	0.26	–	45°	90°	0.14	1.45	–	0.63
1/4	1.44	1.69	0.75	–	0.56	0.25	0.26	45°	90°	0.14	1.58	1.83	0.63
1/2	1.69	2.06	0.75	–	0.56	0.26	0.26	45°	90°	0.14	1.83	2.2	0.63
3/4	2.06	2.19	0.75	–	0.56	0.26	0.26	45°	90°	0.14	2.2	2.33	0.63
1	2.19	–	0.75	–	0.56	0.26	–	45°	90°	0.14	2.33	–	0.63
1 1/4	–	4.19	0.75	0.5	0.56	–	0.26	45°	90°	0.14	–	4.33	0.63
1 1/2	4.19	–	0.75	0.5	0.56	0.26	–	45°	90°	0.14	4.33	–	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2\frac{1}{2}$ Download CAD data → www.festo.com

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [F] Female thread



L ¹	AF	AF	KF	
		[L4]		[N]
1/8	0.56	–	M12	1/2-20 UNF-2B
1/4	0.63	0.63	M12	1/2-20 UNF-2B
1/2	0.63	0.88	M12	1/2-20 UNF-2B
3/4	0.88	0.88	M12	1/2-20 UNF-2B
1	0.88	–	M12	1/2-20 UNF-2B
1 1/4	–	0.88	M12	1/2-20 UNF-2B
1 1/2	0.88	–	M12	1/2-20 UNF-2B

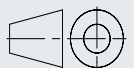
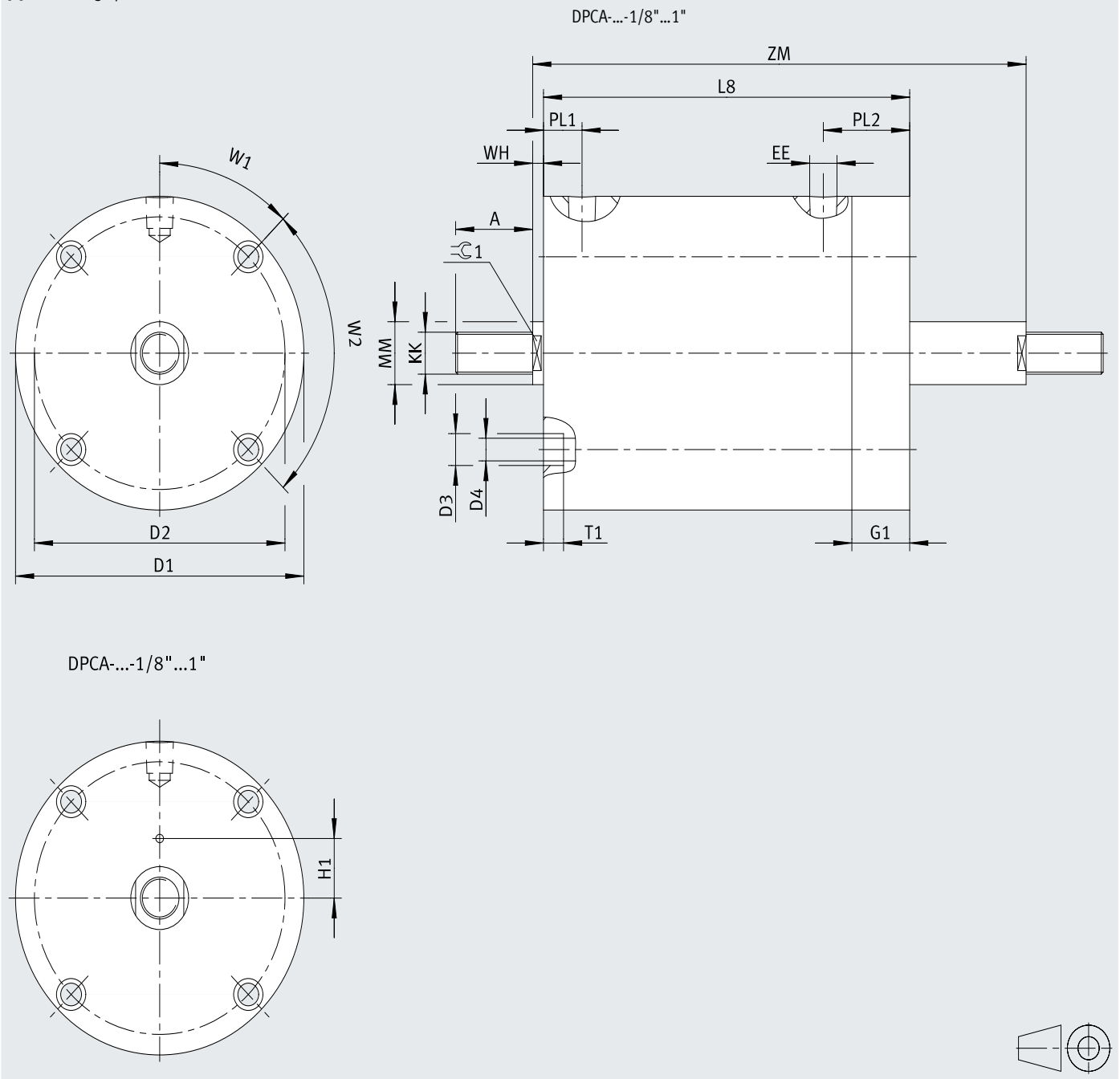
1) L = Stroke

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → www.festo.com

[T] Through piston rod



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1	KK	
							[N]				[N]
1/8	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
3/4	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1 1/2	1	3.74	3.25	0.38	0.27	G1/8	1/8 NPT	0.75	–	M12	1/2-20 UNF-2A

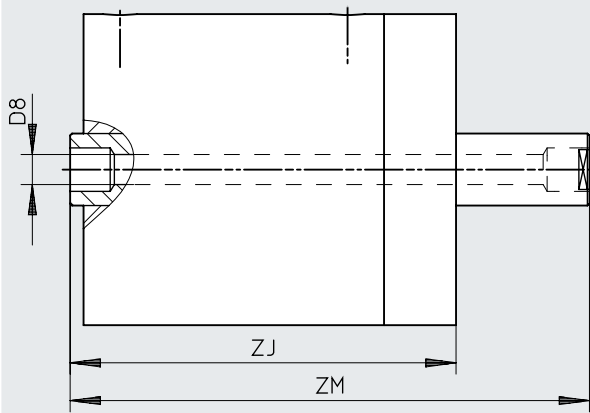
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	1.88	0.75	–	1.13	0.25	45°	90°	0.14	2.285	0.63
1/4	2	0.75	–	1.12	0.25	45°	90°	0.14	2.53	0.63
1/2	2.25	0.75	–	1.12	0.25	45°	90°	0.14	3.03	0.63
3/4	2.63	0.75	–	1.13	0.25	45°	90°	0.14	3.66	0.63
1	2.75	0.75	–	1.12	0.25	45°	90°	0.14	4.03	0.63
1 1/2	4.75	0.75	0.5	1.12	0.25	45°	90°	0.14	6.53	0.63

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2 \frac{1}{2}$ Download CAD data → www.festo.com

[H] Through, hollow piston rod



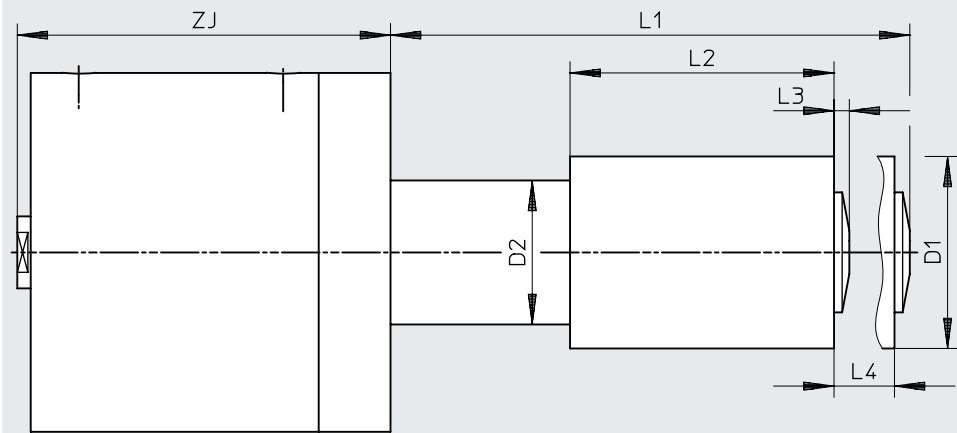
L ¹	D8 Ø	ZJ	ZM
1/8	1/4	2.02	2.285
1/4	1/4	2.14	2.53
1/2	1/4	2.39	3.03
3/4	1/4	2.77	3.66
1	1/4	2.89	4.03
1 1/2	1/4	3.39	5.03

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing$ 2 1/2 Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	2.02
1/4	2	1.5	1.91	1	0.16	0.63	2.14
1/2	2	1.5	2.41	1.25	0.16	0.63	2.39
3/4	2	1.5	2.91	1.5	0.16	0.63	2.77
1	2	1.5	3.41	1.75	0.16	0.63	2.89
1 1/2	2	1.5	4.41	2.25	0.16	0.63	4.89

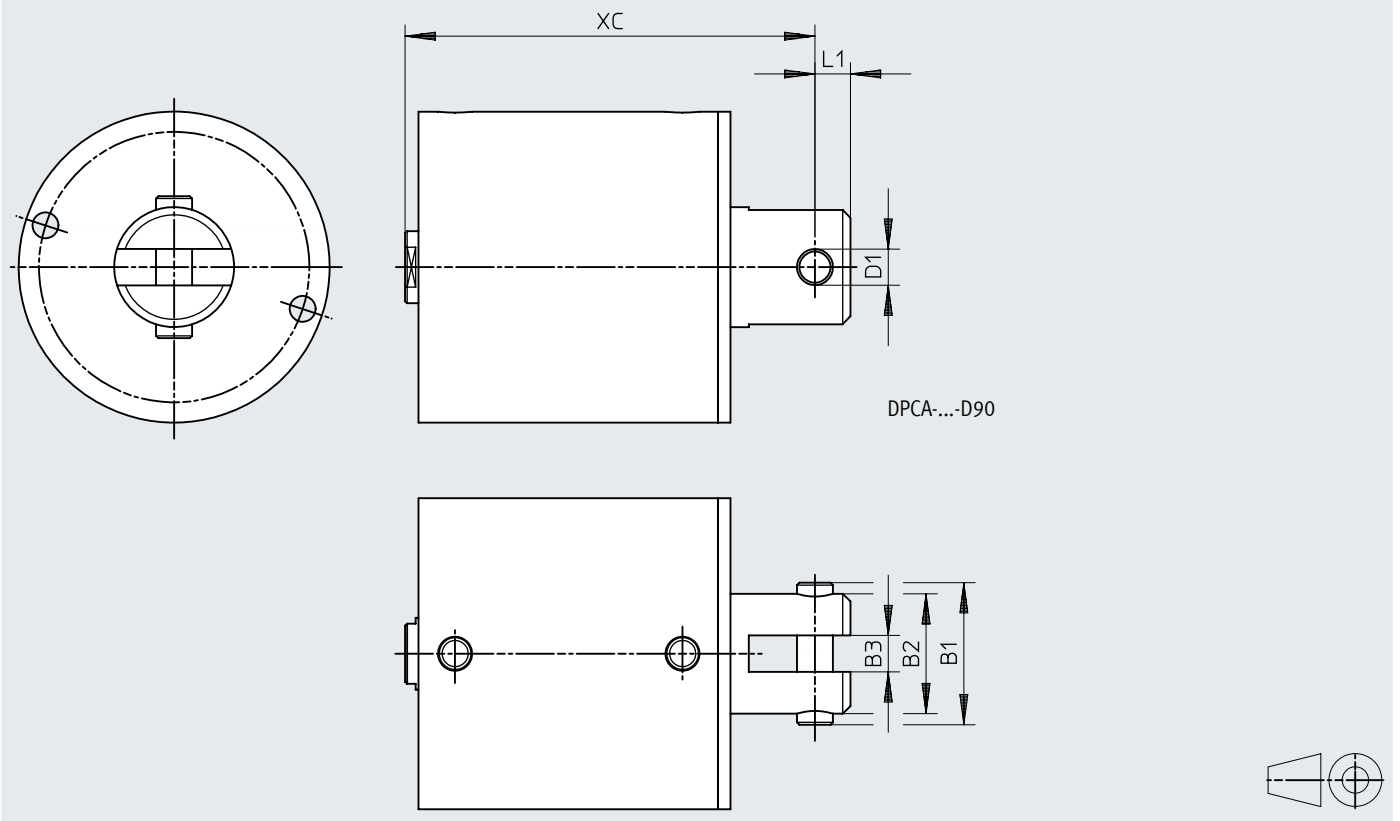
1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 2\frac{1}{2}$ Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°



L ¹	B1	B2	B3	D1 ø	L1	XC			
						[S]	[L4-S]	[P]	[L4-P]
1/8	1.86	1.63	0.5	0.5	0.5	2.64	–	3.21	–
1/4	1.86	1.63	0.5	0.5	0.5	2.77	3.02	3.46	3.77
1/2	1.86	1.63	0.5	0.5	0.5	3.02	3.39	3.96	4.33
3/4	1.86	1.63	0.5	0.5	0.5	3.39	3.52	4.58	4.71
1	1.86	1.63	0.5	0.5	0.5	3.52	–	4.96	–
1 1/4	1.86	1.63	0.5	0.5	0.5	–	5.52	–	–
1 1/2	1.86	1.63	0.5	0.5	0.5	5.52	–	–	–

1) L = Stroke

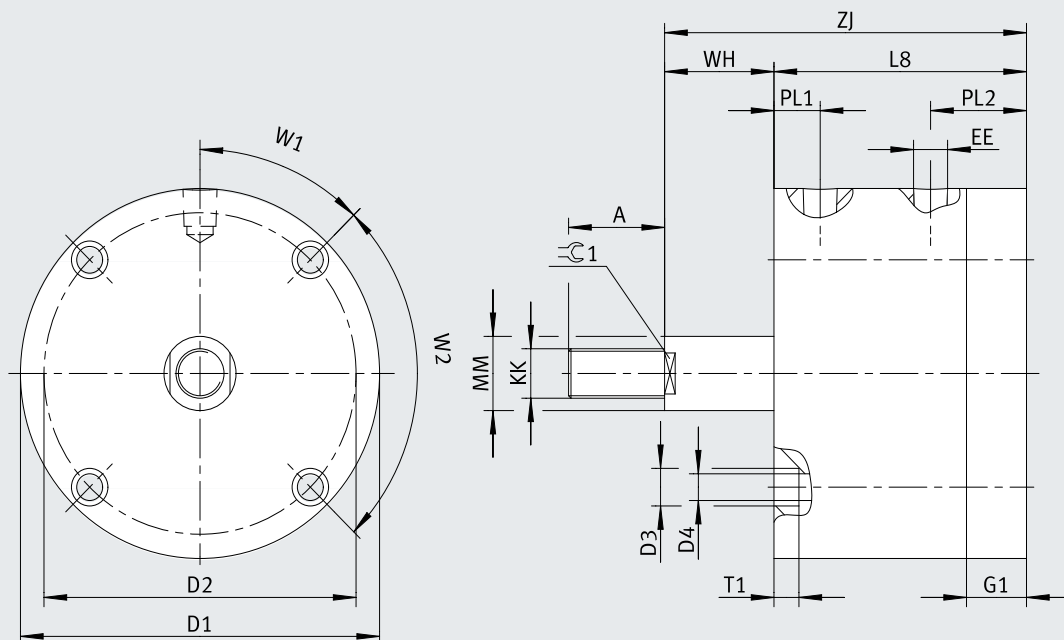
Datasheet

Dimensions – piston $\varnothing 3$

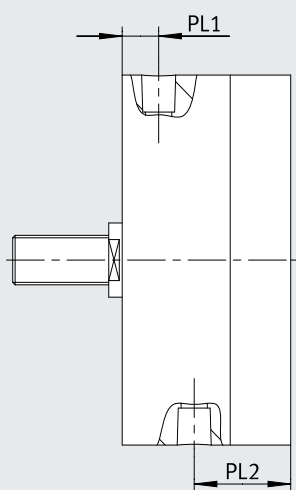
Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

DPCA-...-1/8" ... 1/4"



DPCA-...-1/8" ... 1/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	KK	
							[N]			[N]
1/8	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A
1	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.63	M12	1/2-20 UNF-2A

L ¹	L8		MM ø	PL1		PL2	T1	W1	W2	WH	Z)		≈ 1
		[L4]			[L4]							[L4]	
1/8	1.815	–	0.75	0.385	–	1	0.265	45°	90°	0.265	2.08	–	0.63
1/4	1.94	2.19	0.75	0.38	0.38	1	0.26	45°	90°	0.39	2.33	2.58	0.63
1/2	2.19	2.44	0.75	0.38	0.5	1	0.26	45°	90°	0.64	2.83	3.08	0.63
3/4	2.44	2.69	0.75	0.5	0.5	1	0.26	45°	90°	0.89	3.33	3.58	0.63
1	2.69	–	0.75	0.5	–	1	0.26	45°	90°	1.14	3.83	–	0.63

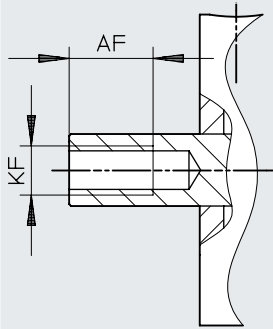
1) L = Stroke

Dimensions – piston ø 3

Download CAD data → www.festo.com

[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread



L ¹	AF	AF [L4]	KF	
				[N]
1/8	0.63	–	M12	1/2-20 UNF-2B
1/4	0.63	0.63	M12	1/2-20 UNF-2B
1/2	0.63	0.88	M12	1/2-20 UNF-2B
3/4	0.88	0.88	M12	1/2-20 UNF-2B
1	0.88	–	M12	1/2-20 UNF-2B

1) L = Stroke

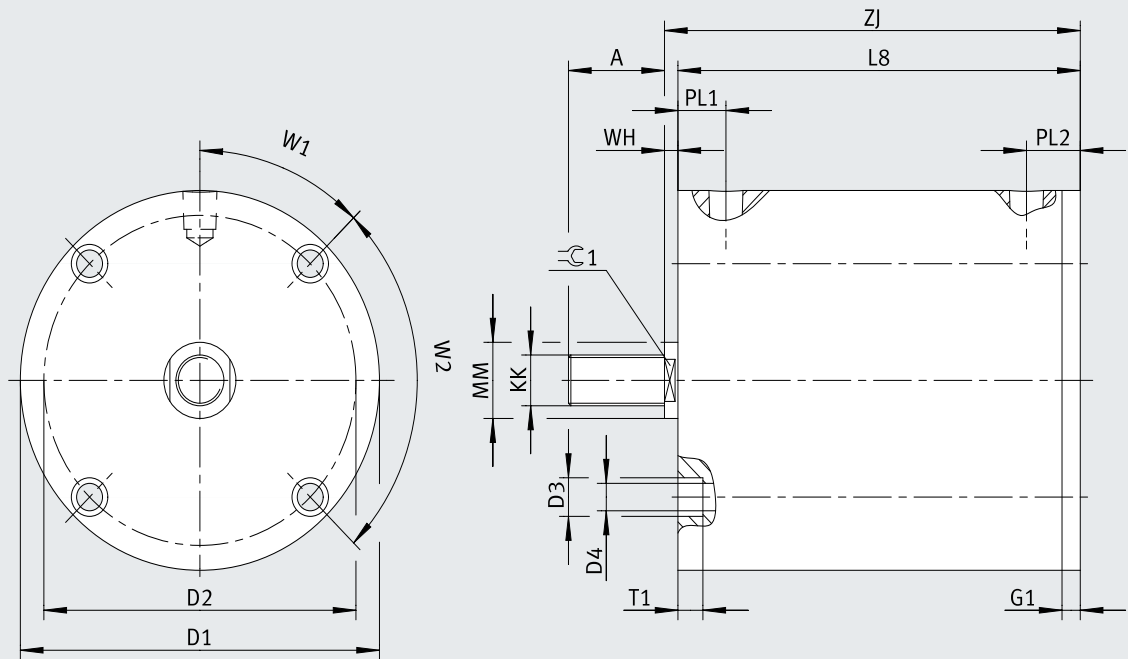
Datasheet

Dimensions – piston $\varnothing 3$

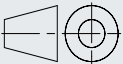
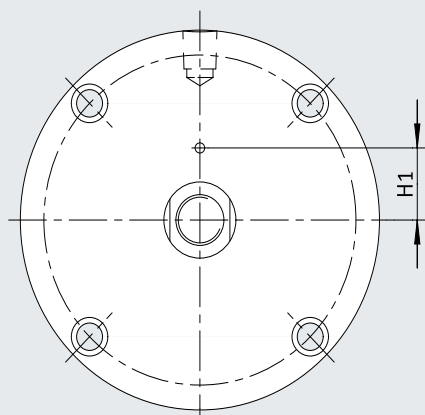
Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

DPCA-...-1/8" ...1"
DPCA-...-L4-...-1/4" ...3/4"



DPCA-...-1/8" ...1"
DPCA-...-L4-...-1/8" ...3/4"



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1		KK	
							[N]			[L4]		[N]
1/8	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	–	M12	1/2-20 UNF-2A
1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	0.71	M12	1/2-20 UNF-2A
1	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	0.71	–	M12	1/2-20 UNF-2A
1 1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	–	M12	1/2-20 UNF-2A
1 1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.19	–	–	M12	1/2-20 UNF-2A

L ¹	L8		MM ø	PL1	PL2	T1	W1	W2	WH	ZJ		≈ 1
		[L4]									[L4]	
1/8	1.38	–	0.75	–	0.57	0.26	45°	90°	0.14	1.52	–	0.63
1/4	1.5	1.75	0.75	–	0.56	0.26	45°	90°	0.14	1.64	1.89	0.63
1/2	1.75	2	0.75	–	0.56	0.26	45°	90°	0.14	1.89	2.14	0.63
3/4	2	2.25	0.75	–	0.56	0.26	45°	90°	0.14	2.14	2.39	0.63
1	2.25	–	0.75	–	0.56	0.26	45°	90°	0.14	2.39	–	0.63
1 1/4	–	4.25	0.75	0.5	0.56	0.26	45°	90°	0.14	–	4.39	0.63
1 1/2	4.25	–	0.75	0.5	0.56	0.26	45°	90°	0.14	4.39	–	0.63

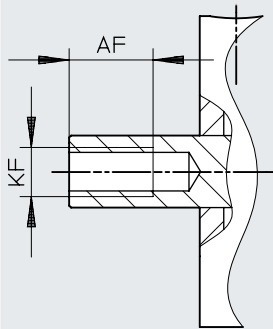
1) L = Stroke

Dimensions – piston ø 3

Download CAD data → www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread



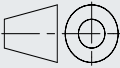
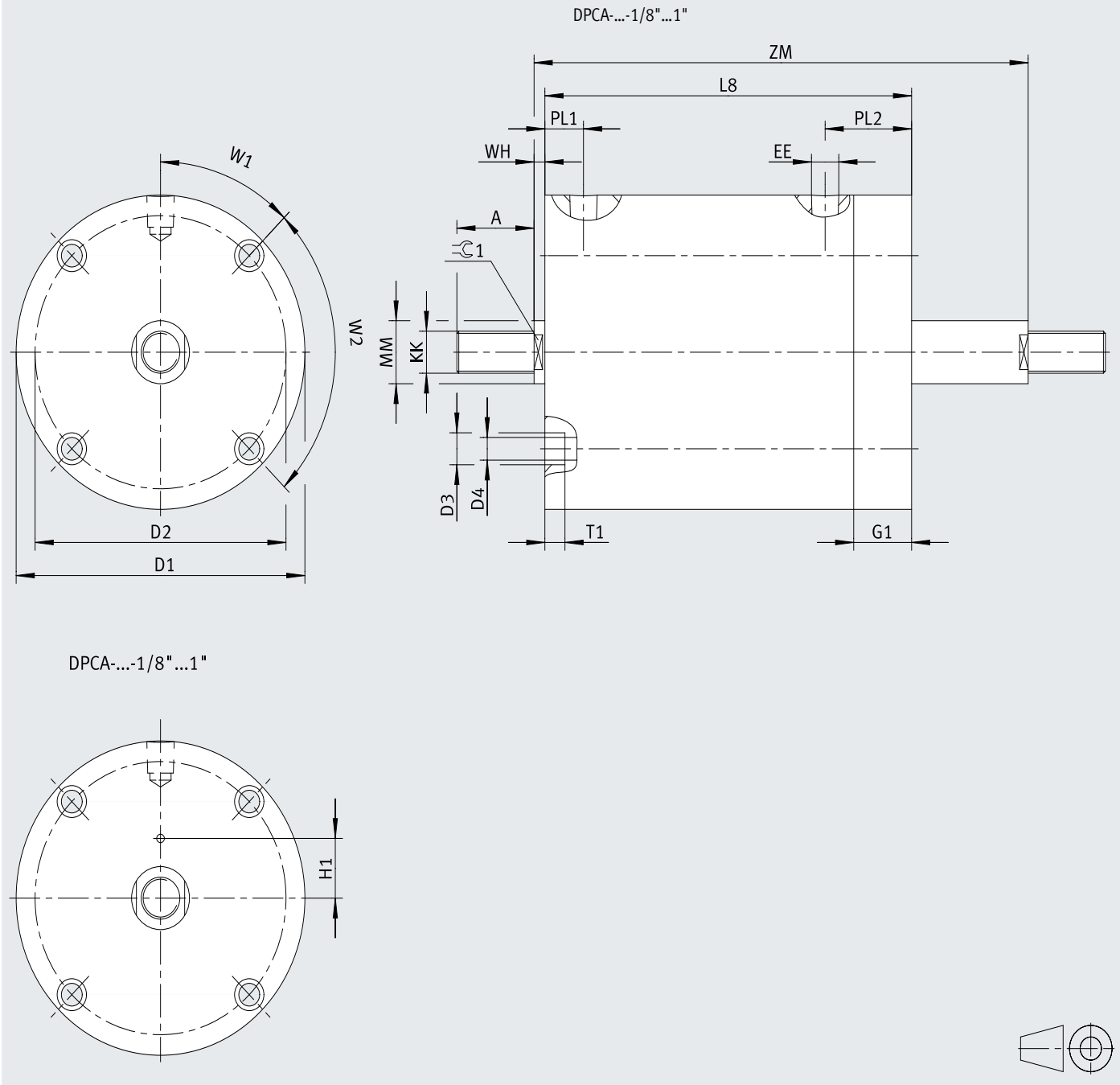
L ¹	AF	AF		KF	
			[L4]		[N]
1/8	0.63	–		M12	1/2-20 UNF-2B
1/4	0.63	0.63		M12	1/2-20 UNF-2B
1/2	0.63	0.88		M12	1/2-20 UNF-2B
3/4	0.88	0.88		M12	1/2-20 UNF-2B
1	0.88	–		M12	1/2-20 UNF-2B
1 1/4	–	0.88		M12	1/2-20 UNF-2B
1 1/2	0.88	–		M12	1/2-20 UNF-2B

1) L = Stroke

Datasheet

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[T] Through piston rod



Datasheet

L ¹	A	D1 ø	D2 ø	D3 ø	D4 ø	EE		G1	H1	KK	
							[N]				[N]
1/8	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
3/4	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	0.71	M12	1/2-20 UNF-2A
1 1/2	1	4.24	3.81	0.38	0.27	G1/8	1/8 NPT	0.75	–	M12	1/2-20 UNF-2A

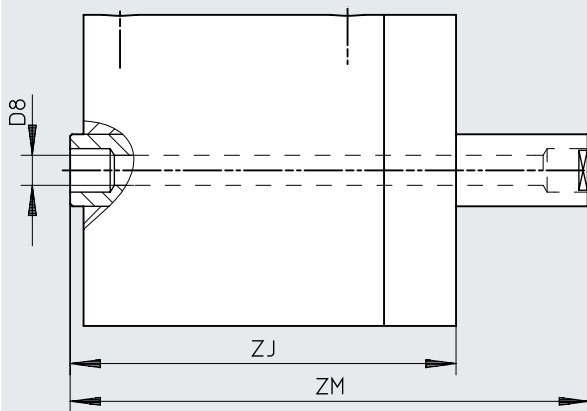
L ¹	L8	MM ø	PL1	PL2	T1	W1	W2	WH	ZM	≈ 1
1/8	1.94	0.75	–	1.13	0.26	45°	90°	0.14	2.345	0.63
1/4	2.06	0.75	–	1.12	0.26	45°	90°	0.14	2.59	0.63
1/2	2.31	0.75	–	1.12	0.21	45°	90°	0.14	3.09	0.63
3/4	2.56	0.75	–	1.12	0.26	45°	90°	0.14	3.59	0.63
1	2.81	0.75	–	1.12	0.26	45°	90°	0.14	4.09	0.63
1 1/2	4.81	0.75	0.5	1.12	0.26	45°	90°	0.14	6.59	0.63

1) L = Stroke

Dimensions – piston ø 3

Download CAD data → www.festo.com

[H] Through, hollow piston rod



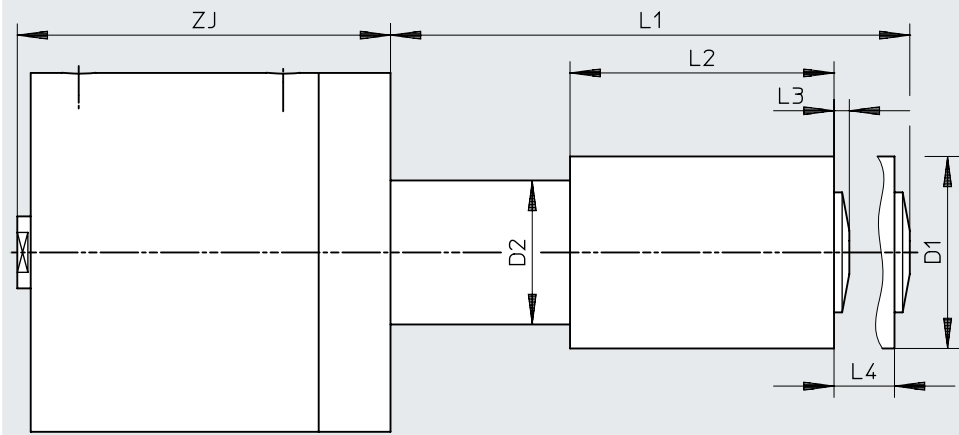
L ¹	D8 ø	ZJ	ZM
1/8	1/4	2.08	2.345
1/4	1/4	2.2	2.59
1/2	1/4	2.45	3.09
3/4	1/4	2.7	3.59
1	1/4	2.95	4.09
1 1/2	1/4	3.45	5.09

1) L = Stroke

Datasheet

Dimensions – piston Ø 3 Download CAD data → www.festo.com

[E] Stroke adjustment



L ¹	D1 Ø	D2 Ø	L1	L2	L3	L4	ZJ
1/8	2	1.5	1.67	0.88	0.16	0.63	2.08
1/4	2	1.5	1.91	1	0.16	0.63	2.2
1/2	2	1.5	2.41	1.25	0.16	0.63	2.45
3/4	2	1.5	2.91	1.5	0.16	0.63	2.7
1	2	1.5	3.41	1.75	0.16	0.63	2.95
1 1/2	2	1.5	4.41	2.25	0.16	0.63	4.95

1) L = Stroke

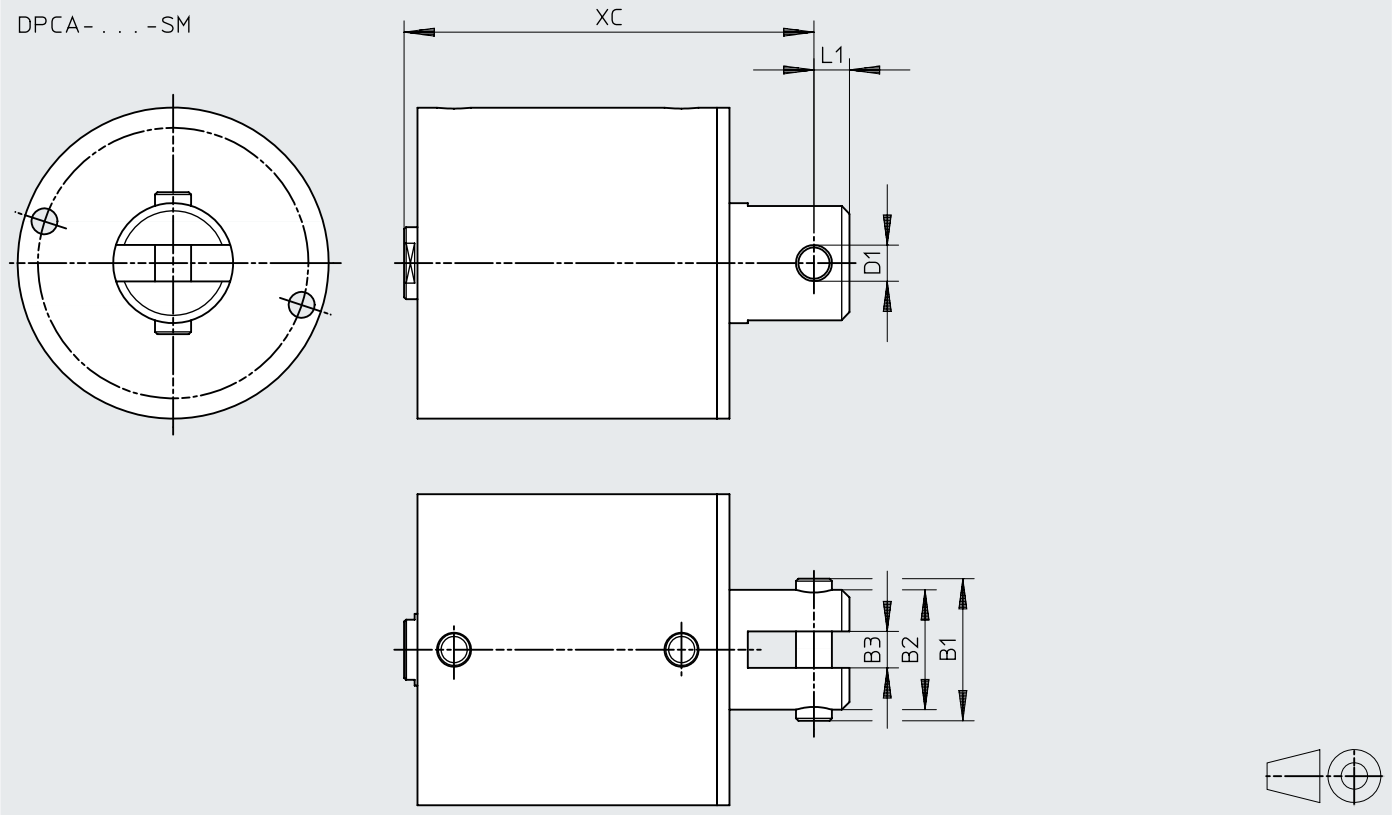
Datasheet

Dimensions – piston $\varnothing 3$ Download CAD data → www.festo.com

[D] With swivel clevis

[D90] With swivel clevis, rotated 90°

DPCA-...-SM



L ¹	B1	B2	B3	D1 ø	L1	XC			
						[S]	[L4-S]	[P]	[L4-P]
1/8	1.86	1.63	0.5	0.5	0.5	2.71	–	3.27	–
1/4	1.86	1.63	0.5	0.5	0.5	2.83	3.08	3.52	3.77
1/2	1.86	1.63	0.5	0.5	0.5	3.08	3.33	4.02	4.27
3/4	1.86	1.63	0.5	0.5	0.5	3.33	3.58	4.52	4.77
1	1.86	1.63	0.5	0.5	0.5	3.58	–	5.02	–
1 1/4	1.86	1.63	0.5	0.5	0.5	–	5.58	–	–
1 1/2	1.86	1.63	0.5	0.5	0.5	5.58	–	–	–

1) L = Stroke

Ordering data – Modular product system

Ordering table										
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	Conditions	Code	Enter code
Module no.	8104871	8104872	8104873	8104874	8104875	8104876	8104877			
Function	Compact cylinder, single-acting								DPCA	DPCA
System of units	Metric									
	Imperial								-N	
Protection against rotation	Without									
Running characteristics	Standard									
	Additional PTFE piston guide							[1]	L4	
Piston Ø	1/2"	3/4"	1 1/8"	1 5/8"	2"	2 1/2"	3"		-..."	
Stroke										
1/16"	1)	1)	2)	—	—	—	—		-1/16"	
1/8"				1)		1)	1)		-1/8"	
3/16"	—	—	1)	—	—	—	—		-3/16"	
1/4"			1)						-1/4"	
3/8"			2)	—	1)	—	—		-3/8"	
1/2"			1)						-1/2"	
5/8"			2)	—	—	—	—		-5/8"	
3/4"	1)	1)	1)						-3/4"	
7/8"	—	—	2)	—	—	—	—		-7/8"	
1"			1)	1)	1)	1)	1)		-1"	
1 1/8"	—	—	2)	—	—	—	—		-1 1/8"	
1 1/4"			1)	2)	2)	2)	2)		-1 1/4"	
1 3/8"	—	—	2)	—	—	—	—		-1 3/8"	
1 1/2"			1)	1)	1)	1)	1)		-1 1/2"	
1 5/8"	—	—	2)	—	—	—	—		-1 5/8"	
1 3/4"	—	—	1)	—	—	—	—		-1 3/4"	
1 7/8"	—	—	2)	—	—	—	—		-1 7/8"	
2"			1)	—	—	—	—		-2"	
Stroke adjustment	Without									
	—	—	Advancing/front					[2]	E	
Function	Single-acting, pulling (piston rod advanced by spring force)							[3]	-P	
	Single-acting, pushing (piston rod retracted by spring force)							[4]	-S	

- [1] L4
Not with stroke adjustment E
Not with piston rod type H, T
- [2] E
Not with running characteristic L4
Not with function P
Not with piston rod type H, T
Not with mounting type D, U, D90, U90
- [3] P
Not with stroke adjustment E
Not with stroke 1 5/8, 1 3/4, 1 7/8, 2
Not with stroke 1/2 for piston diameter 1/2, 3/4 and running characteristic L4
Not with stroke 5/8, 3/4 for piston diameter 1/2, 3/4
Not with stroke 1 for piston diameter 1/2, 3/4
Not with stroke 1 1/4, 1 1/2 for piston diameter 1/2, 3/4, 1 5/8, 2, 2 1/2, 3
- [4] S
Not with stroke 2 for piston diameter 1 5/8, 2, 2 1/2, 3
- 1) Only with standard running characteristic
- 2) Only with running characteristic L4

Ordering data – Modular product system

Ordering table											
Piston Ø	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	Conditions	Code		Enter code
Piston rod type	At one end										
	Through, hollow piston rod							[5]	H		
	Through piston rod							[5]	T		
Piston rod thread type	Male thread							[6]			
	Female thread								F		
Type of mounting	Standard										
	With swivel clevis							[7]	-D		
	With swivelling rod eye					–	–	[7]	-U		
	With swivel clevis, rotated 90°							[7]	-D90		
	With swivelling rod eye, rotated 90°					–	–	[7]	-U90		
Cushioning	No cushioning								-N		
	Elastic cushioning rings/plates, front							[8]	-P2		
	Elastic cushioning rings/plates, rear							[9]	-P3		
Noise reduction	Without										
	–	–	Both sides					[10]	SL		
	–	–	Front					[11]	SL2		
	–	–	Rear					[12]	SL3		
Wiper variant	None										
	Increased chemical resistance								-A1		

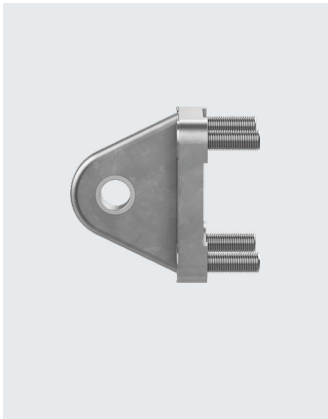
- [5] H, T
Not with running characteristic L4
Not with stroke adjustment E
Not with function P
Not with mounting type D, U, D90, U90
- [6] Not with piston rod type H
- [7] D, U, D90, U90
Not with stroke adjustment E
Not with piston rod type H, T
- [8] P2
Not with function S
- [9] P3
Not with function P
- [10] SL
Not with function S
Not with cushioning P2, P3
- [11] SL2
Not with function S
Not with cushioning P2
- [12] SL3
Not with cushioning P3

Accessories

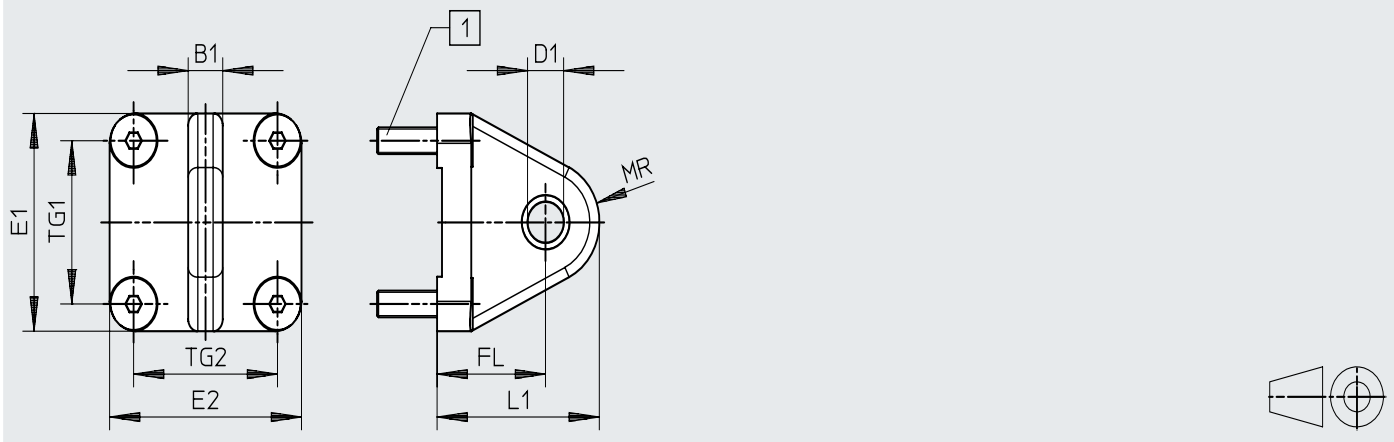
Swivel flange DAMS-C4-...-C
For connecting to compact cylinder
DPCA

Material:
Mounting: Die-cast zinc
Bearing: Bronze
Bolt, lock, washer, screws: galvanised
steel

RoHS-compliant
Contains paint-wetting impairment
substances



Dimensions and ordering data



for Ø [in]	B1	D1 Ø	E1	E2	FL	L1	MR	TG1	TG2	Part no.	Type
1/2; 3/4	0.23	0.251	1.25	1.25	0.56	0.87	0.31	0.88	0.88	8106594	DAMS-C4-3/4"-C
1 1/8	0.3	0.3135	1.5	1.5	0.94	1.38	0.44	1.13	1.13	8106595	DAMS-C4-1 1/8"-C
1 5/8; 2	0.36	0.376	2	2	1.13	1.69	0.56	1.5	1.5	8106596	DAMS-C4-2"-C
2 1/2; 3	0.47	0.501	2	2	1.5	2.25	0.75	1.38	1.38	8106597	DAMS-C4-3"-C
4	0.58	0.626	2.5	2.25	1.63	2.63	1	1.75	1.5	8106598	DAMS-C4-4"-C

Accessories

Swivel flange DAMS-C4-...-C

For connecting to swivel clevis DARC

Material:

Mounting: Die-cast zinc

Bearing: Bronze

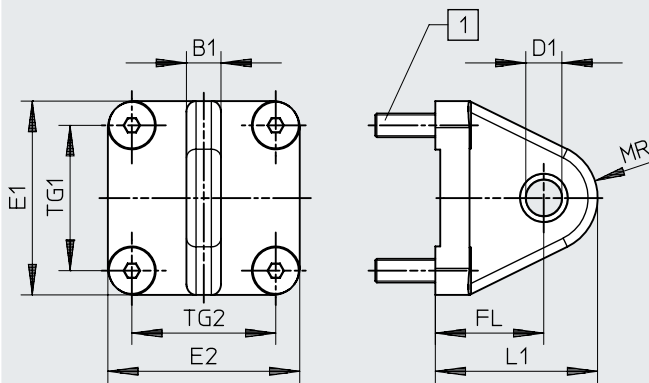
Bolt, lock, washer, screws: galvanised steel

RoHS-compliant

Contains paint-wetting impairment substances



Dimensions and ordering data



For swivel clevis	B1	D1 ø	E1	E2	FL	L1	MR	TG1	TG2	Part no.	Type
DARC-U8C/-U10	0.18	0.1885	1.25	1.25	0.56	0.87	0.31	0.88	0.88	8106593	DAMS-C4-1/2"-C
DARC-U516	0.23	0.251	1.25	1.25	0.56	0.87	0.31	0.88	0.88	8106594	DAMS-C4-3/4"-C
DARC-U38/ U12/U12L/ M12/M12L	0.3	0.3135	1.5	1.5	0.94	1.38	0.44	1.13	1.13	8106595	DAMS-C4-1 1/8"-C
DARC-U58	0.47	0.501	2	2	1.5	2.25	0.75	1.38	1.38	8106597	DAMS-C4-3"-C

Accessories

Swivel clevis DARC-C4-...-M

Material:

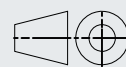
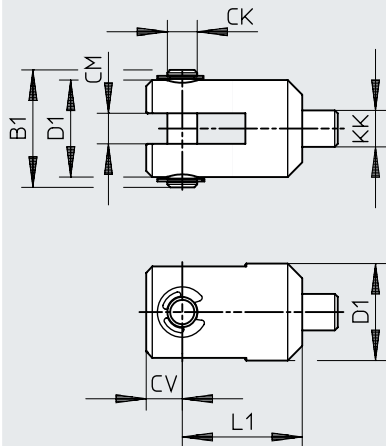
Rod clevis, bolt, lock: Steel

RoHS-compliant

Contains paint-wetting impairment substances



Dimensions and ordering data



Accessories

for Ø [in]	B1	CM	CK	CV	D1 Ø
Imperial					
1/2	0.7	0.19	0.1875	0.25	0.5
3/4	0.7	0.19	0.1875	0.25	0.5
1 1/8	0.96	0.25	0.25	0.28	0.75
1 5/8	1.21	0.32	0.3125	0.38	1
2; 2 1/2	1.21	0.32	0.3125	0.38	1
4	1.62	0.5	0.5	0.5	1.38
Metric					
2; 2 1/2; 3	1.21	0.32	0.3125	0.38	1
4	1.62	0.5	0.5	0.5	1.38
Longer thread design					
Imperial					
2; 2 1/2; 3	1.21	0.32	0.3125	0.38	1
Metric					
2; 2 1/2	1.21	0.32	0.3125	0.38	1

for Ø [in]	KK	L1	Part no.	Type
Imperial				
1/2	8-32x0.25	0.75	8106622	DARC-C4-U8C-M
3/4	10-32x25	0.75	8106623	DARC-C4-U10-M
1 1/8	5/16-24	0.88	8106624	DARC-C4-U516-M
1 5/8	3/8-24x0.37	1.25	8106625	DARC-C4-U38-M
2; 2 1/2	1/2-20x0.39	1.31	8106626	DARC-C4-U12-M
4	5/8-18x0.75	1.63	8106630	DARC-C4-U58-M
Metric				
2; 2 1/2; 3	M12x9.9	1.31	8106628	DARC-C4-M12-M
4	M16x19	1.63	8106631	DARC-C4-M16-M
Longer thread design				
Imperial				
2; 2 1/2; 3	1/2-20x0.62	1.31	8106627	DARC-C4-U12L-M
Metric				
2; 2 1/2	M12x15.7	1.31	8106629	DARC-C4-M12L-M

Accessories

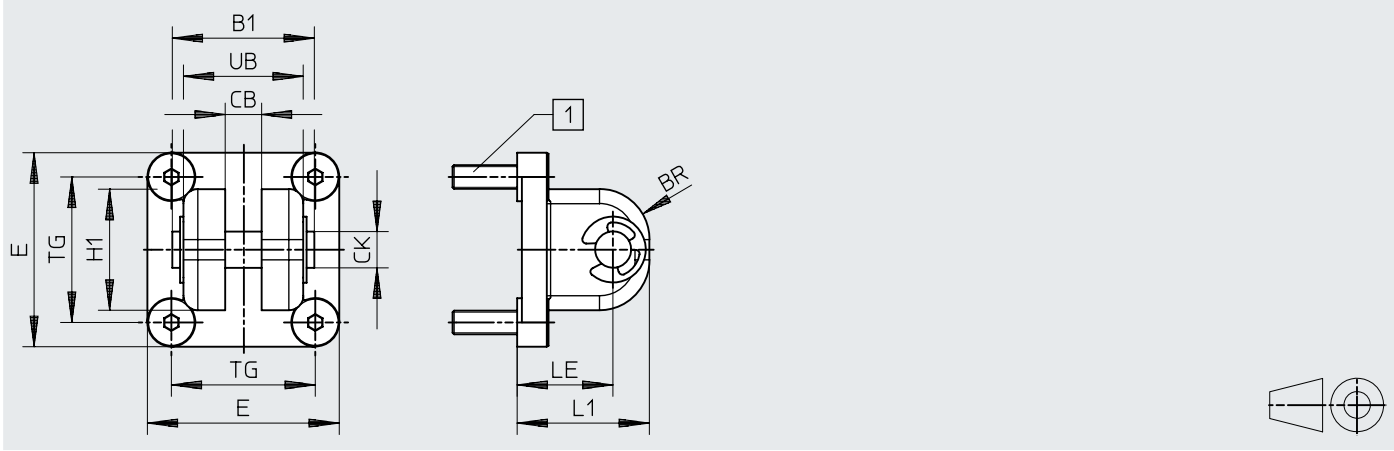
Swivel flange DAMS-C4-...-D

Material:
Mounting: Die-cast zinc
Bearing: Bronze
Screws: Galvanised steel

RoHS-compliant
Contains paint-wetting impairment
substances



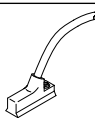
Dimensions and ordering data



for Ø [in]	B1	BR	CB	CK	E	H1
1/2; 3/4	0.83	0.3	0.25	0.25	1.25	0.63
1 1/8	1.21	0.46	0.31	0.3125	1.5	0.88
1 5/8; 2	1.48	0.52	0.38	0.375	2	1.25

for Ø [in]	L1	LE	TG	UB	Part no.	Type
1/2; 3/4	0.81	0.56	0.88	0.63	8106613	DAMS-C4-1/2"-D
1 1/8	1.32	0.94	1.13	1	8106614	DAMS-C4-1 1/8"-D
1 5/8; 2	1.38	1	1.5	1.25	8106615	DAMS-C4-1 5/8"-D

Accessories

Ordering data – Proximity switch round shape, magneto-resistive						Datasheets → Internet: sdbf		
	for Ø [in]	Type of mounting	Switching output	Electrical connection	Part no.	Type		
N/O								
	1/2	Inserted into the slot lengthwise	PNP	Cable, 3-core	8106571	SDBF-FAS-1L-PU-K-9-N-LE		
				1x M8 plug, 3-pin	8106572	SDBF-FAS-1L-PU-K-0,5-N-M8		
			NPN	Cable, 3-core	8106573	SDBF-FAS-1L-NU-K-9-N-LE		
				1x M8 plug, 3-pin	8106574	SDBF-FAS-1L-NU-K-0.5-N-M8		
Ordering data – Proximity switch dovetail design, magneto-resistive							Datasheets → Internet: sdbf	
	for Ø [in]	Type of mounting	Switching output	Electrical connection	Part no.	Type		
N/O								
	3/4 ... 4	Inserted into the slot lengthwise	PNP	Cable, 3-core	8106575	SDBF-FBS-1L-PU-K-9-N-LE		
				Plug M8x1, 3-pin	8106576	SDBF-FBS-1L-PU-K-0.5-N-M8		
			NPN	Cable, 3-core	8106577	SDBF-FBS-1L-NU-K-9-N-LE		
				Plug M8x1, 3-pin	8106578	SDBF-FBS-1L-NU-K-0.5-N-M8		
Ordering data – Connecting cables						Datasheets → Internet: nebu		
	Electrical connection, left		Electrical connection, right	Cable length [m]	Part no.	Type		
	Straight socket, M8x1, 3-pin		Cable, open end, 3-core	2.5	541333	NEBU-M8G3-K-2.5-LE3		
				5	541334	NEBU-M8G3-K-5-LE3		
	Angled socket, M8x1, 3-pin		Cable, open end, 3-core	2.5	541338	NEBU-M8W3-K-2.5-LE3		
				5	541341	NEBU-M8W3-K-5-LE3		
Ordering data								
	for Ø [in]	Description			Part no.	Type		
One-way flow control valve GRLA							Datasheets → Internet: grla	
	1/2	For regulating speed			564839	GRLA-10-32-UNF-QB-1/8-U		
	3/4				564842	GRLA-10-32-UNF-QB-1/4-U		
	1 1/8				534658	GRLA-1/8-QB-1/4-U		
	1 5/8 ... 4				534659	GRLA-1/8-QB-5/16-U		
Push-in fitting, straight							Datasheets → Internet: qb	
	1/2	For connecting tubing with standard O.D.			533266	QBM-10-32-UNF-1/8-U		
	3/4				533269	QB-10-32-UNF-1/4-U		
	1 1/8				533273	QB-1/8-1/4-U		
	1 5/8 ... 4				567773	QB-1/8-3/8-U		
Push-in fitting, angled							Datasheets → Internet: qb	
	1/2	For connecting tubing with standard O.D.			533285	QBML-10-32-UNF-1/8-U		
	3/4				533288	QBL-10-32-UNF-1/4-U		
	1 1/8				533292	QBL-1/8-1/4-U		
	1 5/8 ... 4				567777	QBL-1/8-3/8-U		

Accessories

Ordering data		Description	Part no.	Type
	for Ø [in]			
Assembly tool				
		For fixing the piston rod in place when mounting piston rod attachments	8106809	DADG-WF
Seal set				
	1/2	Spare parts	8106839	DADG-SK-C4-1/2"
	3/4		8106840	DADG-SK-C4-3/4"
			8106841	DADG-SK-C4-3/4"-L4
			8106842	DADG-SK-C4-3/4"-Q
			8141157	DADG-SK-C4-3/4"-QL4
			8106843	DADG-SK-C4-1 1/8"
	1 1/8		8106844	DADG-SK-C4-1 1/8"-L4
			8106845	DADG-SK-C4-1 1/8"-Q
			8141158	DADG-SK-C4-1 1/8"-QL4
			8106846	DADG-SK-C4-1 5/8"
			8106847	DADG-SK-C4-1 5/8"-L4
	1 5/8		8106848	DADG-SK-C4-1 5/8"-Q
			8141159	DADG-SK-C4-1 5/8"-QL4
			8106849	DADG-SK-C4-2"
			8106850	DADG-SK-C4-2"-L4
			8106851	DADG-SK-C4-2"-Q
	2		8141160	DADG-SK-C4-2"-QL4
			8106852	DADG-SK-C4-2 1/2"
			8106853	DADG-SK-C4-2 1/2"-L4
			8106854	DADG-SK-C4-2 1/2"-Q
			8141161	DADG-SK-C4-2 1/2"-QL4
	2 1/2		8106855	DADG-SK-C4-3"
			8106856	DADG-SK-C4-3"-L4
			8106857	DADG-SK-C4-3"-Q
			8141162	DADG-SK-C4-3"-QL4
			8106858	DADG-SK-C4-4"
	3		8106859	DADG-SK-C4-4"-L4
			8106860	DADG-SK-C4-4"-Q
			8141163	DADG-SK-C4-4"-QL4
4				