

## Compact cylinder DPCB

**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
- End cap available in round, square and reinforced designs

### System of units

[N] Imperial

### Protection against rotation

[QP] With double piston rod

- The double piston rod prevents the piston rod from turning during movement
- Application example: position-oriented feeding

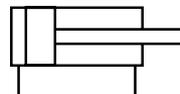
### Running characteristics

[L] Low friction

- The drive has a special seal which reduces friction on the piston rod

### Function

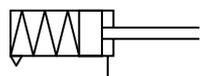
[ ] Double-acting



- 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

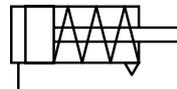
[P] Single-acting, pulling  
(piston rod advanced by spring force)



- 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

### Function

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



- 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



- The piston rod can be used for connection at one end of the cylinder

### Piston rod type

[H] Through, hollow piston rod



- 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

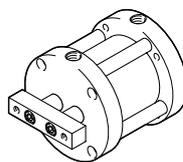
[T] Through piston rod



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

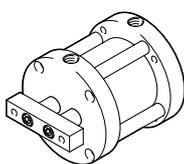
### Piston rod variant

[ ] One end plate



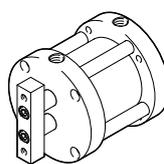
### Piston rod variant

[J1] One end plate with recess and through-hole



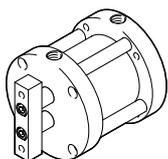
### Piston rod variant

[J90] One end plate, rotated 90°



### Piston rod variant

[J91] One end plate with recess and through-hole, rotated 90°



- The piston rod can be used for connection at both ends of the cylinder
- Identical forces in the forward and return stroke

### Piston rod thread type

[ ] Male thread



### Piston rod thread type

[F] Female thread



### Piston rod thread type

[N] No thread



## Key features

### Compressed air supply port

[ ] Lateral

- The compressed air supply ports are both positioned on the same side

### Compressed air supply port

[P180] Rotated 180°

- The compressed air supply port at the front is rotated 180° clockwise in relation to the compressed air supply port at the rear

### Cover shape

[ ] Round

- Both end caps are round

### End cap

[V] Reinforced

- The reinforced end cap absorbs higher impact forces of the piston rod

### Compressed air supply port

[P90] Rotated 90°

- The compressed air supply port at the front is rotated 90° clockwise in relation to the compressed air supply port at the rear

### Compressed air supply port

[P270] Rotated 270°

- The compressed air supply port at the front is rotated 270° clockwise in relation to the compressed air supply port at the rear

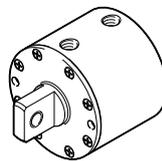
### Cover shape

[QX] Square

- Both end caps square

### Type of mounting

[U] With swivelling rod eye



### Type of mounting

[CB]/[CF]/[CR] Through-holes

- The through-holes in the cap allow screws to be inserted. The drilled hole diameter must therefore be larger than the screw head diameter

### Type of mounting

[FT] Flange thread, front

- The flange thread (male thread) is located on the bearing cap and is used for mounting the cylinder using a large hex nut

### Type of mounting

[MB]/[MF]/[MR] Mounting thread

- The mounting thread (female thread) allows screws to be fastened on the cap

### Type of mounting

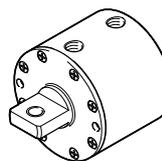
[Y2] Trunnion flange mounting position, front

- The trunnion flange mounting is located on the front cap. This is where trunnion flanges for trunnion supports can be fitted

### Type of mounting

[Y3] Trunnion flange mounting position, rear

- The trunnion flange mounting is located on the rear cap. This is where trunnion flanges for trunnion supports can be fitted



## Key features

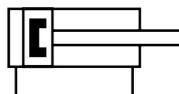
**Cushioning**

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

- The drive is fitted with elastic polymer end-position cushioning.
- No adjustment required
- Saves time

**Position sensing**

[A] For proximity switch

**Wiper variant**

[A1] Increased chemical resistance



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

**Wiper variant**

[A4] Wiper made of NBR



- An additional wiper made of NBR stops dirt particles from getting into the drive

**Extended piston rod**

[NE] 0.001...6"

- The piston rod can be extended by 0.001...6"

Product range overview

Function	Type	Piston $\varnothing$ [in]	Stroke [in]	System of units	Protection against rotation	Running characteristics	Piston rod type		Piston rod variant		
				N	QP	L	H	T	J1	J90	J91
Double-acting	<b>DPCB</b>										
	DPCB	1/2	1/8 ... 4	■	–	■	■	■	■	■	■
		3/4		■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	
		2 1/2		■	–	■	■	■	■	■	■
		3		■	–	■	■	■	■	■	■
		4		■	–	■	■	■	■	■	■
Single-acting	<b>DPCB-...-P (pulling, piston rod advanced by spring force)</b>										
	DPCB-...-P	1/2	1/8 ... 4	■	–	■	–	–	■	■	■
		3/4		■	–	■	–	–	■	■	■
		1 1/16		■	–	■	–	–	■	■	■
		1 1/2		■	–	■	–	–	■	■	■
		2		■	–	■	–	–	■	■	■
		2 1/2		■	–	■	–	–	■	■	■
		3		■	–	■	–	–	■	■	■
		4		■	–	■	–	–	■	■	■
	<b>DPCB-...-S (pushing, piston rod retracted by spring force)</b>										
	DPCB-...-S	1/2	1/8 ... 4	■	–	■	–	–	■	■	■
		3/4		■	–	■	–	–	■	■	■
		1 1/16		■	–	■	–	–	■	■	■
		1 1/2		■	–	■	–	–	■	■	■
		2		■	–	■	–	–	■	■	■
		2 1/2		■	–	■	–	–	■	■	■
		3		■	–	■	–	–	■	■	■
		4		■	–	■	–	–	■	■	■

## Product range overview

Function	Type	Piston $\varnothing$ [in]	Stroke [in]	Piston rod thread type		Compressed air supply port			Cover shape	End cap	
				F	N	P90	P180	P270	QX	V	
Double-act- ing	DPCB- ...										
		1/2	1/8 ... 4	■	■	–	■	–	–	■	
		3/4		■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	
		3		■	■	■	■	■	■	■	
	4	■		■	■	■	■	■	■		
Single-act- ing	DPCB-...-P (pulling, piston rod advanced by spring force)										
		1/2	1/8 ... 4	■	■	–	■	–	–	■	
		3/4		■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	
		3		■	■	■	■	■	■	■	
		4		■	■	■	■	■	■	■	
		DPCB-...-S (pushing, piston rod retracted by spring force)									
		1/2	1/8 ... 4	■	■	–	■	–	–	■	
		3/4		■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	
	3	■		■	■	■	■	■	■		
	4	■		■	■	■	■	■	■		

Product range overview

Function	Type	Piston ø [in]	Stroke [in]	Type of mounting												
				U	CB	CF	CR	FT	MB	MF	MR	Y2	Y3	U90)		
Double-act- ing	DPCB- ...															
		1/2	1/8 ... 4	■	■	■	■	■	■	■	■	■	–	–	■	
		3/4		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
		3		■	■	■	■	■	■	■	■	■	■	■	■	
	4	■		■	■	■	■	■	■	■	■	■	■	■		
Single-act- ing	DPCB-...-P (pulling, piston rod advanced by spring force)															
		1/2	1/8 ... 4	■	■	■	■	■	■	■	■	■	–	–	■	
		3/4		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
		3		■	■	■	■	■	■	■	■	■	■	■	■	
		4		■	■	■	■	■	■	■	■	■	■	■	■	
		DPCB-...-S (pushing, piston rod retracted by spring force)														
		1/2	1/8 ... 4	■	■	■	■	■	■	■	■	■	■	–	–	■
		3/4		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	■	■	■	■	■	
	3	■		■	■	■	■	■	■	■	■	■	■	■		
	4	■		■	■	■	■	■	■	■	■	■	■	■		

## Product range overview

Function	Type	Piston $\varnothing$ [in]	Stroke [in]	Cushioning				Position sensing	Wiper variant		Extended piston rod	
				N	P	P2	P3	A	A1	A4	-...NE	
Double-act- ing	DPCB- ...	1/2	1/8 ... 4	■	■	■	■	■	■	■	■	
		3/4		■	■	■	■	■	■	■	■	
		1 1/16		■	■	■	■	■	■	■	■	
		1 1/2		■	■	■	■	■	■	■	■	
		2		■	■	■	■	■	■	■	■	
		2 1/2		■	■	■	■	■	■	■	■	
		3		■	■	■	■	■	■	■	■	
		4		■	■	■	■	■	■	■	■	
Single-act- ing	DPCB-...-P (pulling, piston rod advanced by spring force)											
		1/2	1/8 ... 4	■	-	■	-	■	■	■	■	■
		3/4		■	-	■	-	■	■	■	■	■
		1 1/16		■	-	■	-	■	■	■	■	■
		1 1/2		■	-	■	-	■	■	■	■	■
		2		■	-	■	-	■	■	■	■	■
		2 1/2		■	-	■	-	■	■	■	■	■
		3		■	-	■	-	■	■	■	■	■
		4		■	-	■	-	■	■	■	■	■
	DPCB-...-S (pushing, piston rod retracted by spring force)											
		1/2	1/8 ... 4	■	-	-	■	■	■	■	■	■
		3/4		■	-	-	■	■	■	■	■	■
		1 1/16		■	-	-	■	■	■	■	■	■
		1 1/2		■	-	-	■	■	■	■	■	■
		2		■	-	-	■	■	■	■	■	■
2 1/2		■		-	-	■	■	■	■	■	■	
3		■		-	-	■	■	■	■	■	■	
4	■	-	-	■	■	■	■	■	■			

Product range overview

Function	Type	Piston ø [in]	Stroke [in]	Piston rod thread									
				U10)	U12)	U34)	U38)	U58)	U8C	U10C	U12C		
Double-act- ing	DPCB- ...												
		1/2	1/8 ... 4	-	-	-	-	-	-	■	-	-	
		3/4		■	-	-	-	-	-	-	-	■	-
		1 1/16		-	-	-	-	-	-	-	-	-	-
		1 1/2		-	-	-	■	-	-	-	-	-	-
		2		-	■	-	-	-	-	-	-	-	■
		2 1/2		-	■	-	-	-	-	-	-	-	■
		3		-	-	-	-	-	■	-	-	-	-
	4	-		-	-	■	-	-	-	-	-	-	
Single-act- ing	DPCB-...-P (pulling, piston rod advanced by spring force)												
		1/2	1/8 ... 4	-	-	-	-	-	-	■	-	-	
		3/4		■	-	-	-	-	-	-	-	■	-
		1 1/16		-	-	-	-	-	-	-	-	-	-
		1 1/2		-	-	-	■	-	-	-	-	-	-
		2		-	■	-	-	-	-	-	-	-	■
		2 1/2		-	■	-	-	-	-	-	-	-	■
		3		-	-	-	-	-	■	-	-	-	-
		4		-	-	-	■	-	-	-	-	-	-
		DPCB-...-S (pushing, piston rod retracted by spring force)											
		1/2	1/8 ... 4	-	-	-	-	-	-	■	-	-	
		3/4		■	-	-	-	-	-	-	-	■	-
		1 1/16		-	-	-	-	-	-	-	-	-	-
		1 1/2		-	-	-	■	-	-	-	-	-	-
		2		-	■	-	-	-	-	-	-	-	■
		2 1/2		-	■	-	-	-	-	-	-	-	■
	3	-		-	-	-	-	■	-	-	-	-	
	4	-		-	-	■	-	-	-	-	-	-	

## Product range overview

Function	Type	Piston ø [in]	Stroke [in]	Piston rod thread					
				U34C	U38C	U516)	U58C	U516C	
Double-act- ing	DPCB- ...								
		1/2	1/8 ... 4	-	-	-	-	-	
		3/4		-	-	-	-	-	
		1 1/16		-	-	■	-	■	
		1 1/2		-	■	-	-	-	
		2		-	-	-	-	-	
		2 1/2		-	-	-	-	-	
		3		-	-	-	■	-	
	4	■		-	-	-	-		
Single-act- ing	DPCB-...-P (pulling, piston rod advanced by spring force)								
		1/2	1/8 ... 4	-	-	-	-	-	
		3/4		-	-	-	-	-	
		1 1/16		-	-	■	-	■	
		1 1/2		-	■	-	-	-	
		2		-	-	-	-	-	
		2 1/2		-	-	-	-	-	
		3		-	-	-	■	-	
		4		■	-	-	-	-	
		DPCB-...-S (pushing, piston rod retracted by spring force)							
		1/2	1/8 ... 4	-	-	-	-	-	
		3/4		-	-	-	-	-	
		1 1/16		-	-	■	-	■	
		1 1/2		-	■	-	-	-	
		2		-	-	-	-	-	
		2 1/2		-	-	-	-	-	
	3	-		-	-	■	-		
	4	■		-	-	-	-		

## Type codes

001	Series
DPCB	Pancake cylinder
002	System of units
N	Imperial
003	Protection against rotation
	None
QP	With double piston rod
004	Running characteristics
	Standard
L	Low friction
005	Piston diameter [“]
1/2”	1/2”
3/4”	3/4”
1 1/16”	1 1/16”
1 1/2”	1 1/2”
2”	2”
2 1/2”	2 1/2”
3”	3”
4”	4”
006	Stroke [“]
1/8”	1/8”
1/4”	1/4”
3/8”	3/8”
1/2”	1/2”
5/8”	5/8”
3/4”	3/4”
7/8”	7/8”
1”	1”
1 1/8”	1 1/8”
1 1/4”	1 1/4”
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 7/8”	1 7/8”
2”	2”
2 1/8”	2 1/8”
2 1/4”	2 1/4”
2 3/8”	2 3/8”
2 1/2”	2 1/2”
2 5/8”	2 5/8”
2 3/4”	2 3/4”
2 7/8”	2 7/8”
3”	3”
3 1/8”	3 1/8”
3 1/4”	3 1/4”
3 3/8”	3 3/8”
3 1/2”	3 1/2”
3 5/8”	3 5/8”
3 3/4”	3 3/4”
3 7/8”	3 7/8”
4”	4”
007	Function
	Double-acting
P	Single-acting, pulling
S	Single-acting, pushing

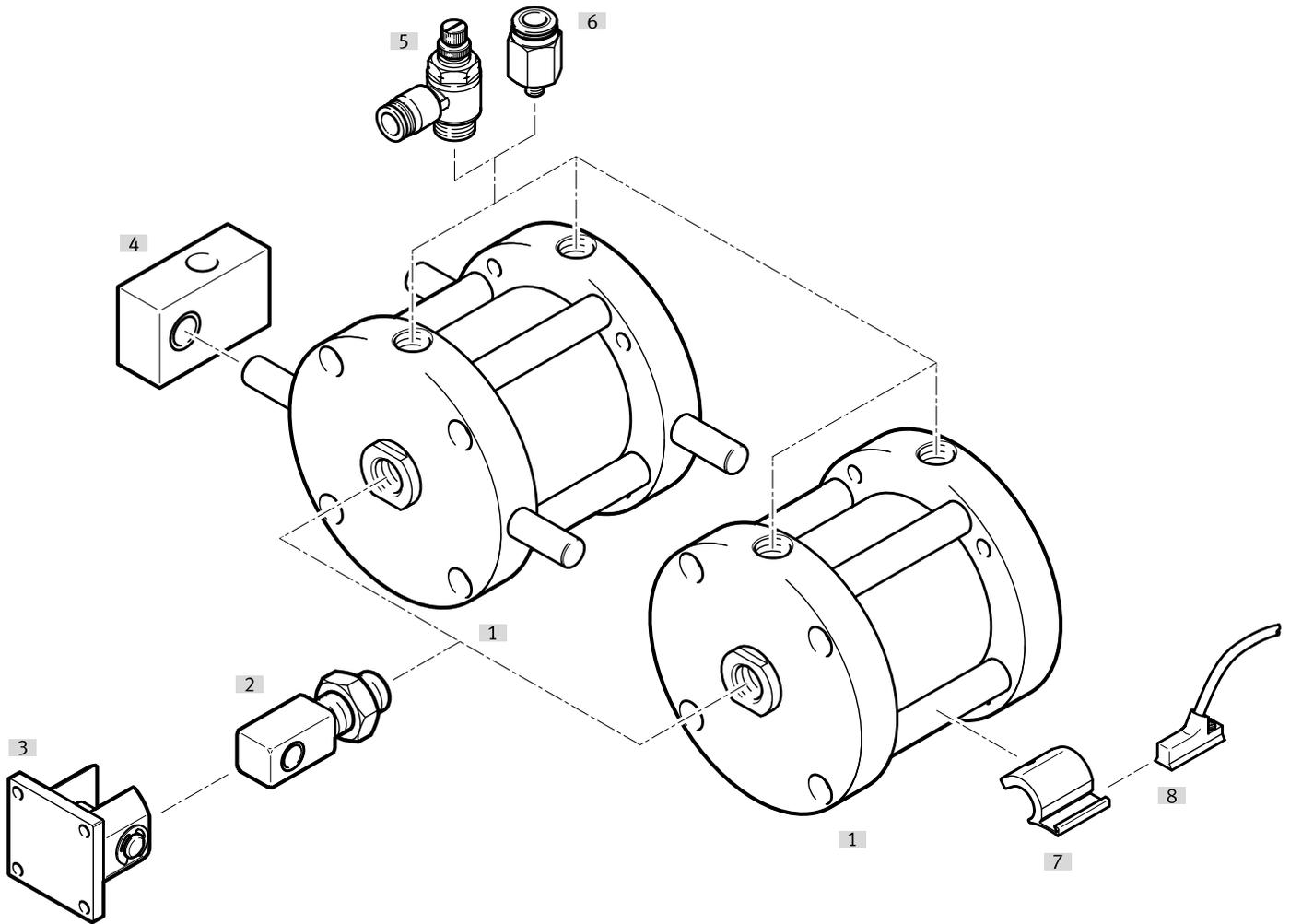
008	Piston rod type
	At one end
H	Through, hollow piston rod
T	Through piston rod
009	Piston rod design
	One end plate
J1	One end plate with recess and through-hole
J90	One end plate, rotated 90°
J91	One end plate with recess and through-hole, rotated 90°
010	Piston rod thread type
	Male thread
F	Female thread
N	No thread
011	Compressed air connection
	Lateral
P90	Rotated 90°
P180	180° rotated
P270	270° rotated
012	Cover shape
	Round
QX	Square
013	End cap
	Standard
V	Reinforced
014	Type of mounting
	Standard
U	With swivelling rod eye
CB	Through-holes, at both ends
CF	Through-holes, front
CR	Through-holes, rear
FT	Flange thread, front
MB	Mounting thread, at both ends
MF	Mounting thread, front
MR	Mounting thread, rear
Y2	Trunnion flange mounting position, front
Y3	Trunnion flange mounting position, rear
U90	With swivelling rod eye, rotated 90°
015	Cushioning
N	No cushioning
P	Elastic cushioning rings/plates on both sides
P2	Elastic cushioning rings/plates, front
P3	Elastic cushioning rings/plates, rear
016	Position sensing
	None
A	For proximity sensor
017	Temperature range
	Standard
T3	-40 ... +80 °C
018	Scraper variant
	None
A1	Increased chemical resistance
A4	Scraper made of NBR

## Type codes

019	Piston rod extension
	None
...NE	0 ... 6"

020	Piston rod thread
	Standard
<b>U10</b>	10-32 UNF
<b>U12</b>	1/2-20 UNF
<b>U34</b>	3/4-16 UNF
<b>U38</b>	3/8-24 UNF
<b>U58</b>	5/8-18 UNF
<b>U8C</b>	8-32 UNC
<b>U10C</b>	10-24 UNC
<b>U12C</b>	1/2-13 UNC
<b>U34C</b>	3/4-10 UNC
<b>U38C</b>	3/8-16 UNC
<b>U516</b>	5/16-18 UNC
<b>U58C</b>	5/8-11 UNC
<b>U516C</b>	5/16-18 UNC

Peripherals overview



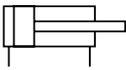
## Peripherals overview

Accessories	Description	→ Page/Internet
[1] Compact cylinder DPCB		
[2] Rod clevis DARC-C5-...-M	Permits a swivelling movement in one plane	146
[3] Swivel flange DAMS-C5-...-D	For connecting to rod clevis DARC	146
[4] Trunnion support DAMC-C5-...-M	For retaining trunnion flange mountings	147
[5] One-way flow control valve GRLA	For regulating speed	148
[6] Push-in fitting QB/QBL	For connecting tubing with standard O.D.	148
[7] Sensor bracket SAMH-NC5	For mounting proximity switch SDBF-FBS	147
[8] Proximity switch SDBF-FBS	Can be inserted in dovetail slot	148

Datasheet

Function

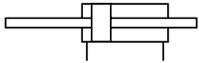
DPCB



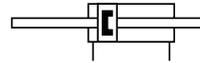
DPCB-...A



DPCB-...T



DPCB-...T-...A



- - Diameter  
1/2 ... 4 inch
- - Stroke length  
1/8 ... 4 inch

General technical data

Piston $\varnothing$	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Design	Piston							
	Piston rod							
	Cylinder barrel							
Operating mode	Double-acting							
Pneumatic connection with female thread	10-32 UNF-2B		1/8 NPT					
Piston rod thread								
[ ]	8-32 UNC-2A	10-24 UNC-2A	5/16-18 UNC-2A	3/8-16 UNC-2A	1/2-13 UNC-2A		5/8-11 UNC-2A	3/4-10 UNC-2A
[F]	8-32 UNC-2B	10-24 UNC-2B	5/16-18 UNC-2B	3/8-16 UNC-2B	1/2-13 UNC-2B		5/8-11 UNC-2B	3/4-10 UNC-2B
[ ]	-	10-32 UNF-2A	5/16-24 UNF-2A	3/8-24 UNF-2A	1/2-20 UNF-2A		5/8-18 UNF-2A	3/4-16 UNF-2A
[F]		10-32 UNF-2B	5/16-24 UNF-2B	3/8-24 UNF-2B	1/2-20 UNF-2B		5/8-18 UNF-2B	3/4-16 UNF-2B
Piston rod end	Male thread							
	Female thread							
Protection against rotation/guide	Double piston rod with end plate							
	Double piston rod with end plate rotated 90°							
	Double piston rod with end plate with recess and through-hole							
	Double piston rod with end plate with recess and through-hole rotated 90°							
Stroke [in]	1/8 ... 4							
Cushioning								
[P]	Elastic cushioning rings/plates at both ends							
[P2]	Elastic cushioning rings/plates, at front							
[P3]	Elastic cushioning rings/plates, rear							
Position sensing	Via proximity switch							
Type of mounting								
[U]	With swivelling rod eye on end cap							
[U90]	With swivelling rod eye on end cap rotated 90°							
[CB]	With through-hole at both ends							
[CF]	With through-hole on bearing cap							
[CR]	With through-hole on end cap							
[Y2]	With trunnion mounting on bearing cap							
[Y3]	With trunnion mounting on end cap							
[FT]	With threaded flange on the bearing cap							
[MB]	Direct mounting at both ends via thread							
[MF]	Direct mounting on the bearing cap via thread							
[MR]	Direct mounting on the end cap via thread							
	With accessories							
Mounting position	Any							

## Datasheet

Operating and environmental conditions								
Piston Ø	1/2	3/4	1 1/16	1 1/2	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 temperature <sup>1)</sup> [°F]	-25 ... +221							

1) Note operating range of proximity switches

Forces [lb] at 80 psi								
Piston Ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Theoretical force, pushing (piston rod retracted by spring force) <sup>1)</sup>	16	35.2	70.4	140.8	251.2	392.8	565.6	1005.6
Theoretical force, pulling (piston rod advanced by spring force)	12	28.8	55.2	116	212.8	357.6	517.6	942.4

1) Only applies to variant H (through, hollow piston rod) and variant T (through piston rod)

Forces with variant QP (with double piston rod) [lbs]								
Piston Ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Theoretical force at 80 psi, pushing (piston rod retracted by spring force) <sup>1)</sup>	–	35.2	70.4	140.8	251.2	–		
Theoretical force at 80 psi, pulling (piston rod advanced by spring force)		31.2	62.4	123.2	220.8			

1) Only applies to variant H (through, hollow piston rod) and variant T (through piston rod)

Materials	
Cover	Wrought aluminium alloy
Dynamic seals	NBR
	FPM
Piston rod	High-alloy stainless steel, hard chrome-plated
Cylinder barrel	Reinforced composite material
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant

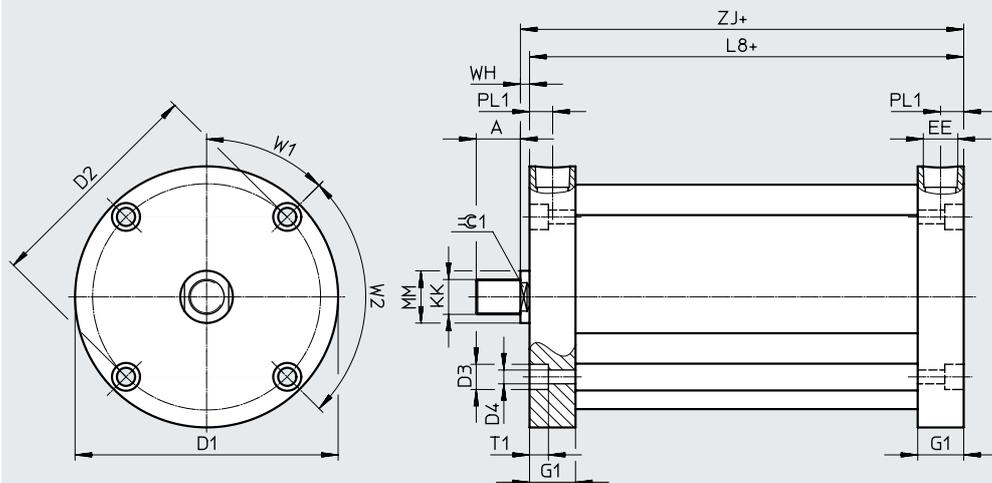
Weight [lb]								
Piston Ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Product weight	0.07 ... 0.08	0.11 ... 0.13	0.29 ... 0.35	0.58 ... 0.68	0.78 ... 0.92	1.34 ... 1.69	1.73 ... 2.30	3.34 ... 4.34

Datasheet

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK
1/8...4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...4	0.56	0.25	0.14	0.13	90°	–	0.13	0.69	0.22

Dimensions – piston Ø 1/2

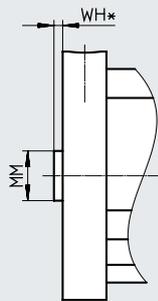
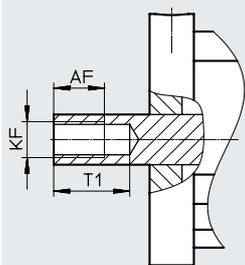
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF	T1	MM ∅	WH
	[F]	[F]	[F]	[N]	[N]
1/8	0.294	8-32 UNC	–	0.25	0.13
1/4	0.419	8-32 UNC	–	0.25	0.13
3/8	0.544	8-32 UNC	–	0.25	0.13
1/2	0.544	8-32 UNC	–	0.25	0.13
5/8...4	0.46	8-32 UNC	–	0.25	0.13

Note

Piston Ø 1/2 only with coarse thread UNC  
Piston Ø 3/4...4 with fine thread UNF or coarse thread UNC

Datasheet

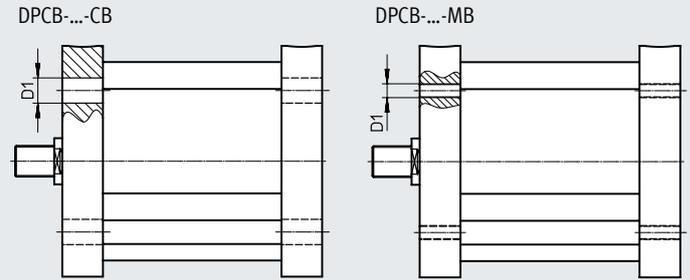
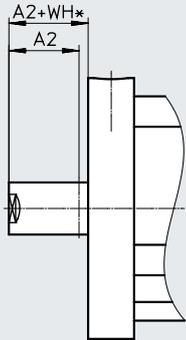
Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

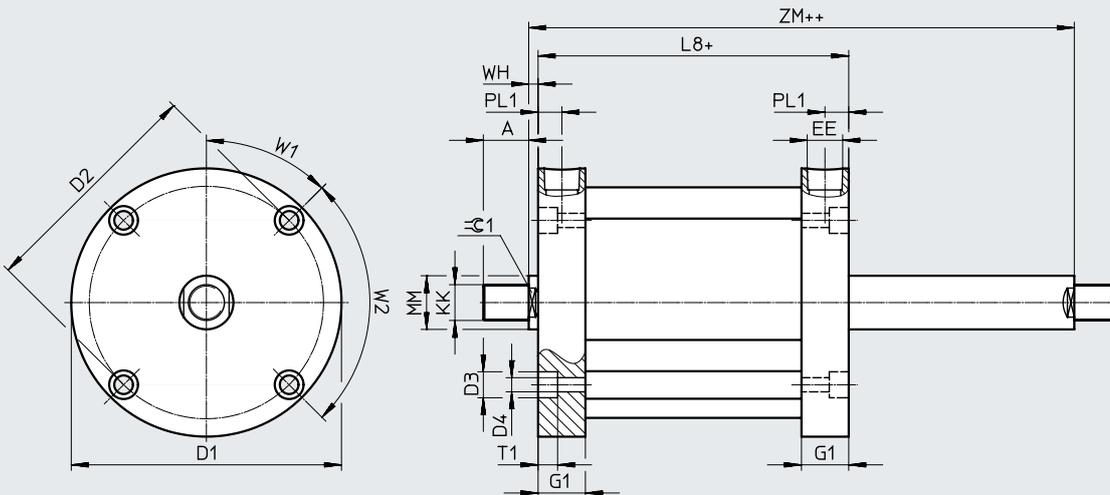


Stroke [in]	A2		WH	D1 ∅	
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.17	4-40 UNC

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK
1/8...4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	≈G 1
1/8...4	0.69	0.25	0.14	0.13	90°	-	0.13	0.95	0.22

Datasheet

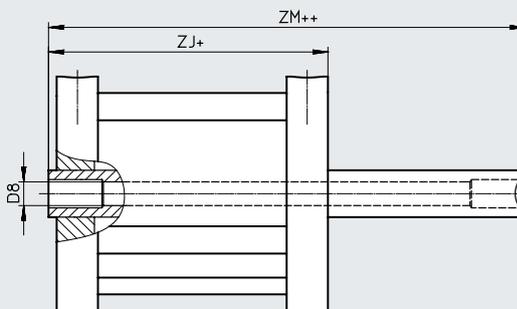
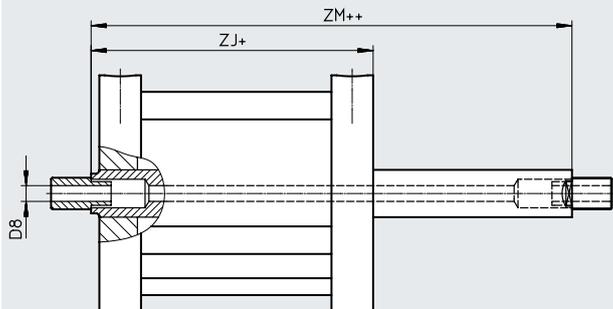
Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



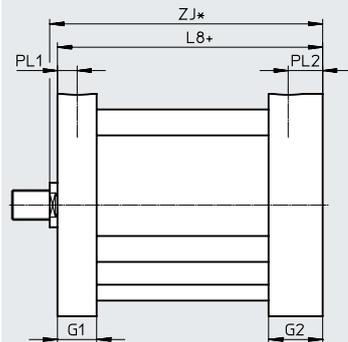
+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	D8 Ø	[F]	ZJ	ZM
1/8...4	-	0.14	0.82	0.95

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [V] Reinforced end cap



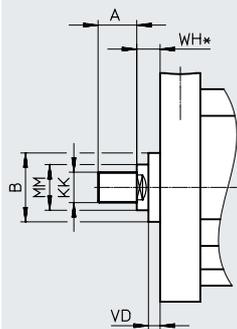
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.34	0.47	0.69	0.14	0.27	0.82

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [A4] Wiper made of NBR



Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.38	0.56	8-24 UNC	0.25	0.38	0.19

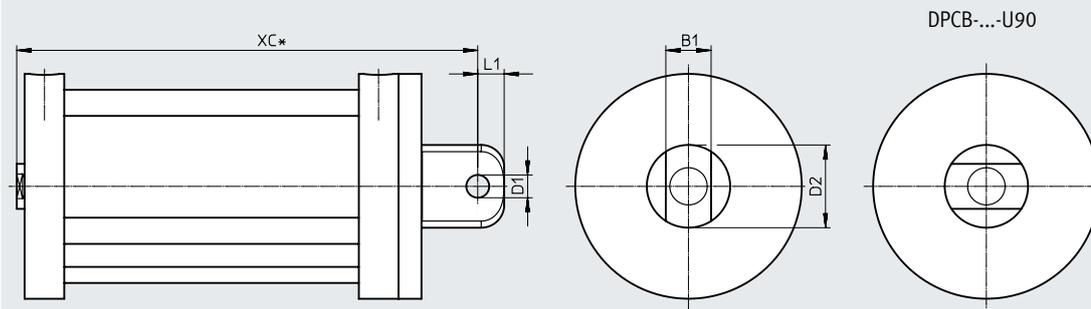
Datasheet

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



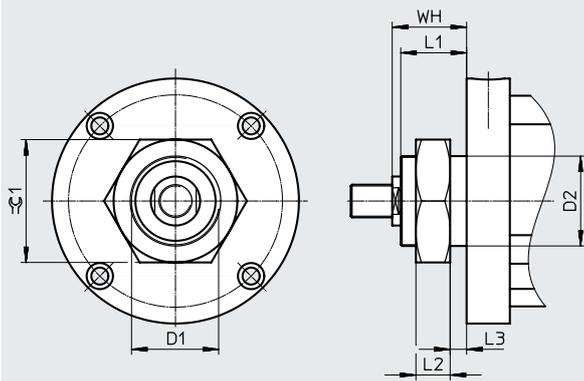
+ = plus stroke length

Stroke [in]	B1	D1 ø	D2 ø	L1	XC
1/8...4	0.38	0.19	0.63	0.25	1.44

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



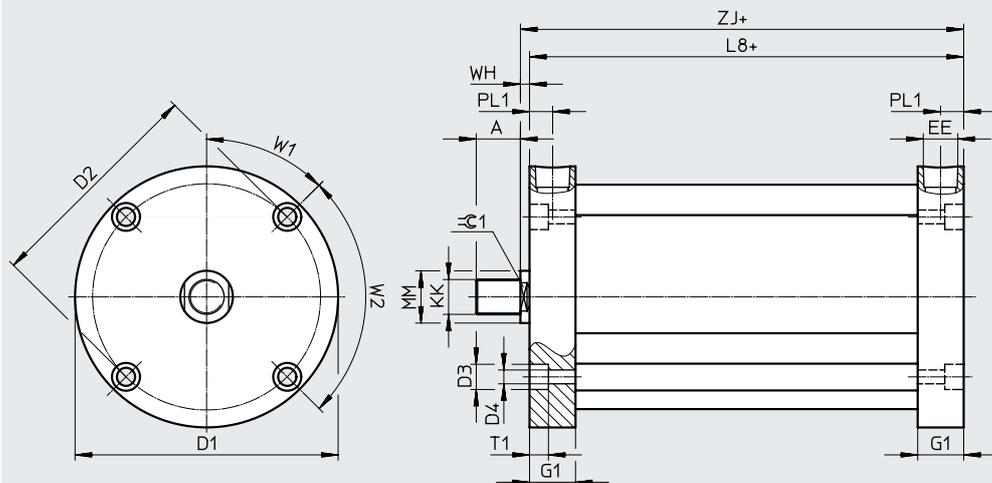
Stroke [in]	D1	D2 ø	L1	L2	L3	WH	⊕ 1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1/4	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
3/8	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1/2	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
5/8...4	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8	0.56	0.31	0.14	0.15	43°	90°	0.13	0.69	0.25
1/4	0.56	0.31	0.14	0.15	43°	90°	0.13	0.69	0.25
3/8	0.56	0.31	0.14	0.15	43°	90°	0.13	0.69	0.25
1/2	0.56	0.31	0.14	0.15	43°	90°	0.13	0.69	0.25
5/8...4	0.56	0.31	0.14	0.15	43°	90°	0.13	0.69	0.25

Dimensions – piston Ø 3/4

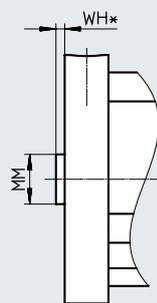
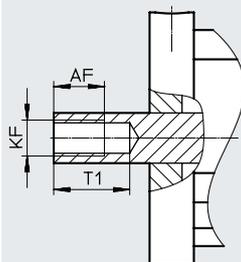
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.298	10-24 UNC	10-32 UNF	–	0.31	0.13
1/4	0.423	10-24 UNC	10-32 UNF	–	0.31	0.13
3/8	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
1/2	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
5/8...4	0.46	10-24 UNC	10-32 UNF	–	0.31	0.13

Datasheet

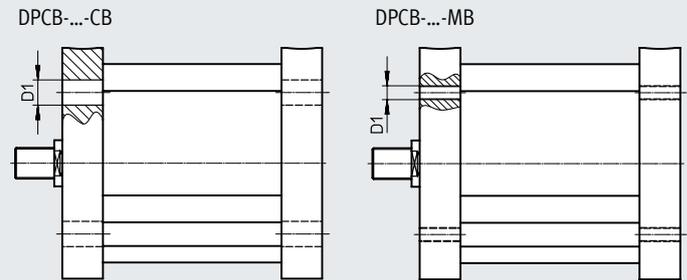
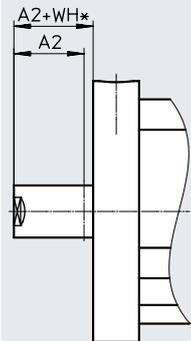
Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

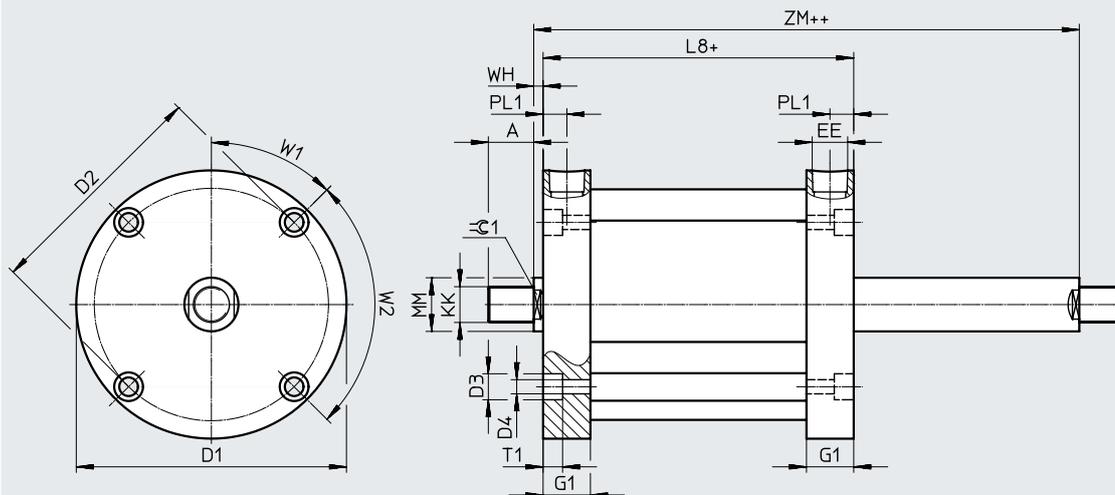


Stroke [in]	A2		WH	D1 ∅	D1 ∅
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.23	6-32 UNC

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK	
1/8...4	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	∅ 1
1/8...4	0.69	0.31	0.14	0.15	43°	90°	0.13	0.95	0.25

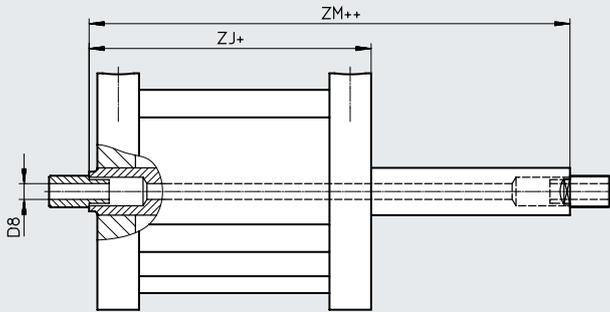
Datasheet

Dimensions – piston Ø 3/4

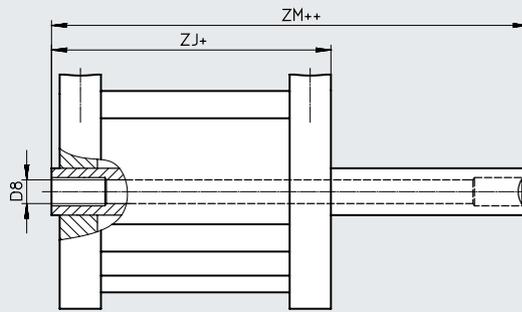
Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H



DPCB-...-H-...-F



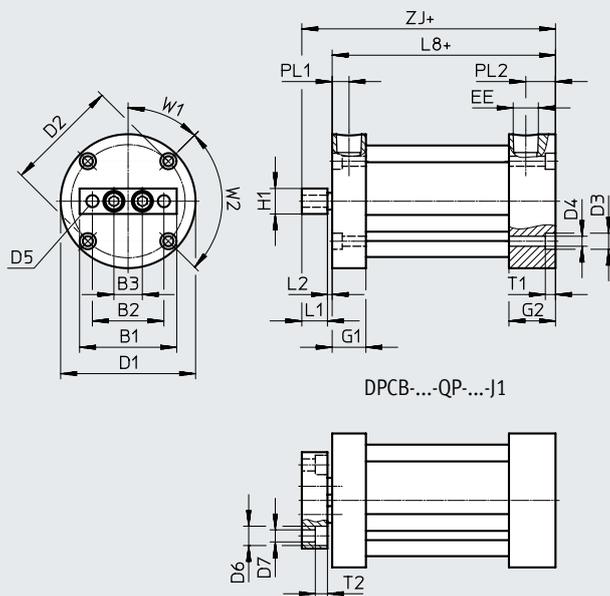
- + = plus stroke length
- ++ = plus 2x stroke length

Stroke [in]	D8 ø		ZJ	ZM
		[F]		
1/8...4	0.09	0.14	0.82	0.95

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

- [QP] With double piston rod
- [QP] [J1] With double piston rod and one end plate with recess and through-hole



DPCB-...-QP-...-J1

Stroke [in]	B1	B2	B3	D1 ø	D2 ø	D3 ø	D4 ø	D5	D6 ø	D7 ø	EE
									[J1]	[J1]	
1/2...4	1.25	0.88	0.332	1.49	1.22	0.24	0.15	6-32 UNC	0.24	0.15	10-32 UNF

Stroke [in]	G1	G2	L1	L2	L8	PL1	PL2	T1	T2	W1	W2	ZJ
									[J1]			
1/2...4	0.34	0.47	0.38	0.07	0.94	0.14	0.27	0.15	0.15	45°	90°	1.39

Datasheet

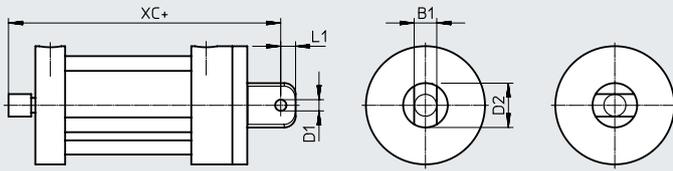
Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[QP] [U] With double piston rod and swivelling rod eye

[QP] [U90] With double piston rod and swivelling rod eye, rotated 90°

DPCB-...-QP-...-U DPCB-...-QP-...-U90

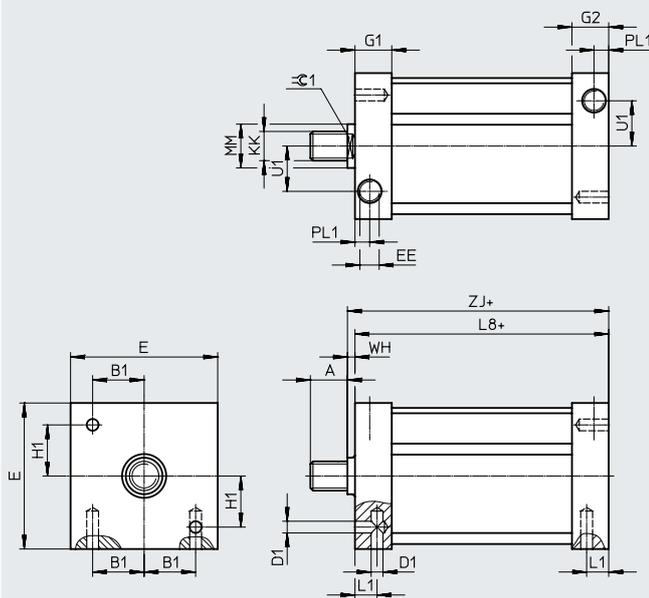


Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/2...4	0.38	0.19	0.75	0.25	2.14

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.38	0.38	6-32 UNC	1.25	10-32 UNF	0.42	0.42	0.38	10-24 UNC 10-32 UNF

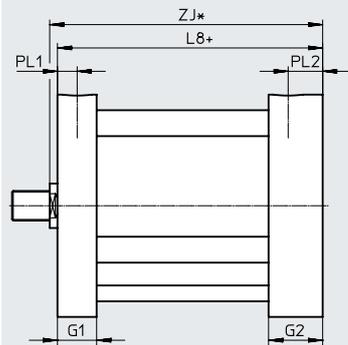
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...4	0.28	0.75	0.31	0.14	0.3	0.13	0.88	0.25

Datasheet

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



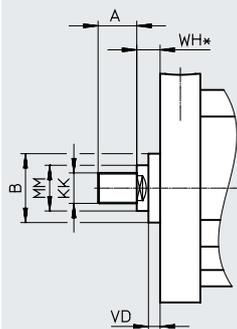
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.34	0.47	0.69	0.14	0.27	0.82

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



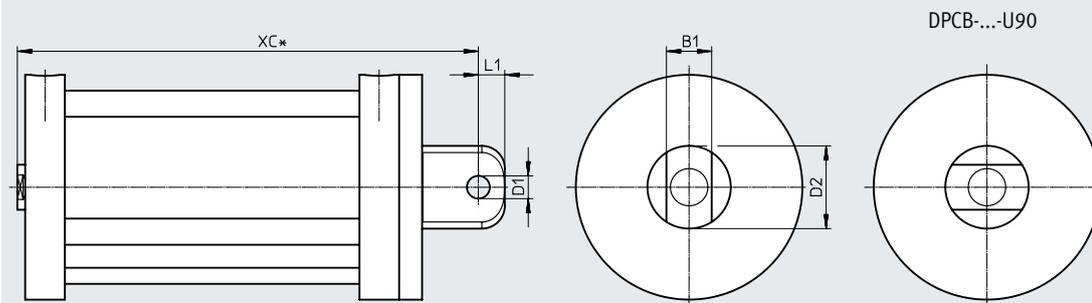
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.38	0.69	10-24 UNC 10-32 UNF	0.31	0.38	0.19

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

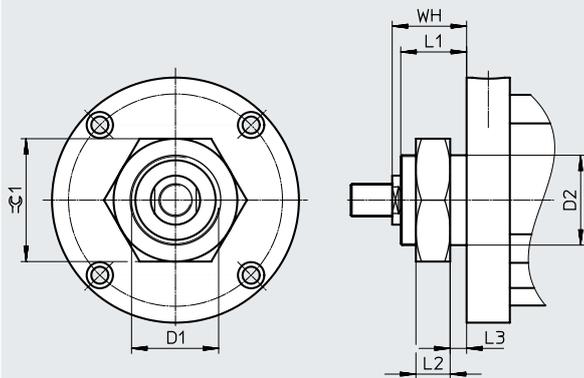
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	0.38	0.19	0.75	0.25	1.44

Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⊖ 1
1/8...4	5/8-18 UNF-2A	0.62	0.38	0.25	0.6	0.51	0.75

Dimensions – piston Ø 3/4

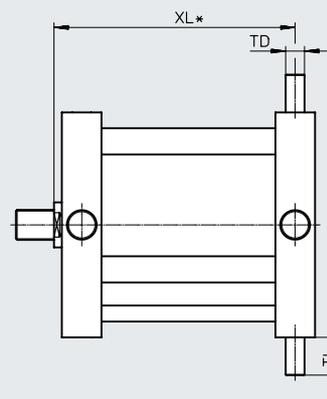
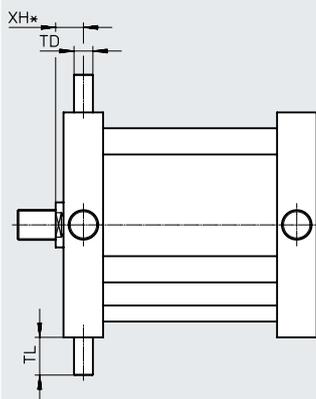
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XL\* = plus stroke length

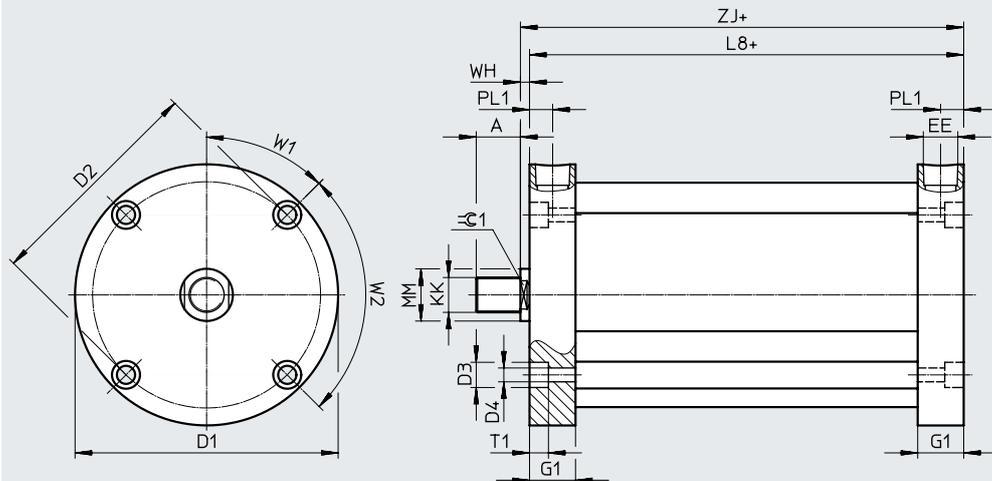
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.125	0.31	0.3	0.52

Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1/4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
3/8	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1/2	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
5/8...4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44
1/4	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44
3/8	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44
1/2	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44
5/8...4	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44

Dimensions – piston Ø 1 1/16

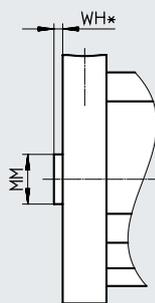
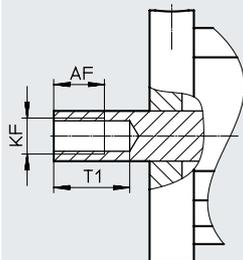
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.427	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/4	0.552	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
3/8	0.677	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/2	0.802	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
5/8...4	0.7	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13

Datasheet

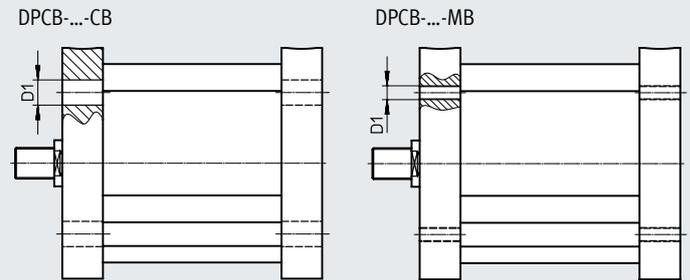
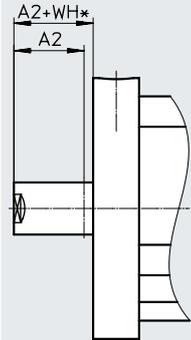
Dimensions – piston  $\varnothing$  1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

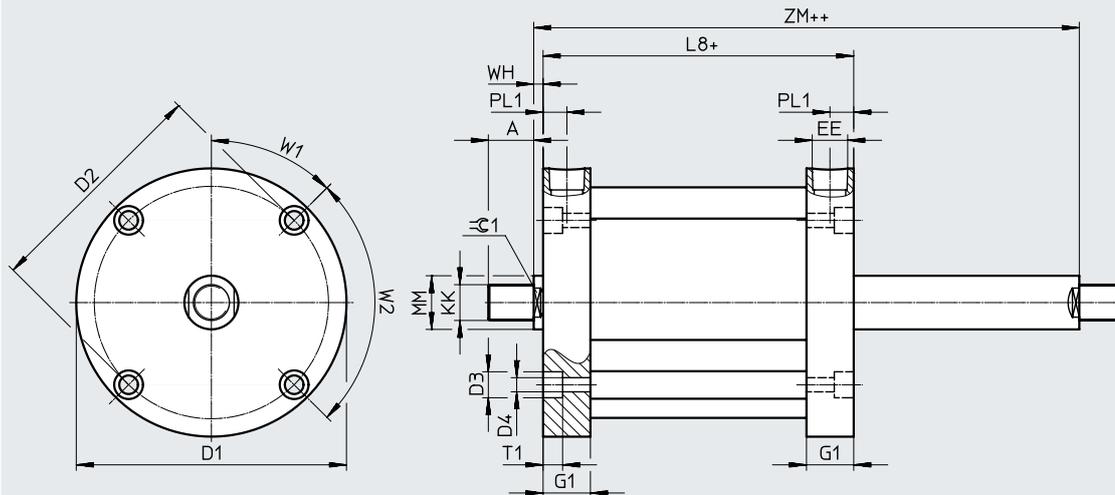


Stroke [in]	A2		WH	D1	
	min.	max.		$\varnothing$ [CB]	$\varnothing$ [MB]
1/8...4	0.001	6	0.13	0.25	6-32 UNC

Dimensions – piston  $\varnothing$  1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 $\varnothing$	D2 $\varnothing$	D3 $\varnothing$	D4 $\varnothing$	EE	G1	KK	
1/8...4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF

Stroke [in]	L8	MM $\varnothing$	PL1	T1	W1	W2	WH	ZM	$\approx \varnothing$ 1
1/8...4	0.94	0.5	0.25	0.15	45°	90°	0.13	1.2	0.44

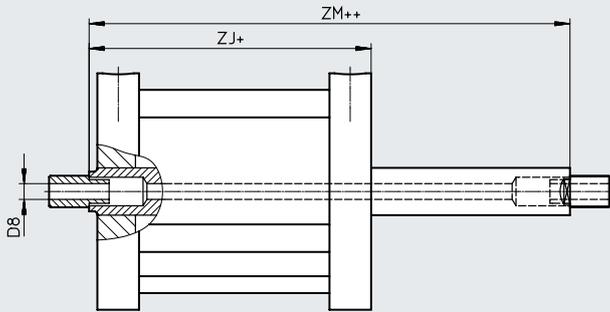
Datasheet

Dimensions – piston Ø 1 1/16

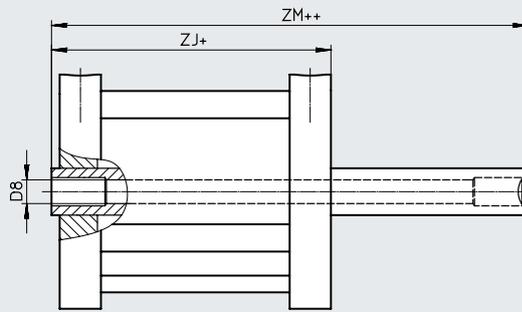
Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H



DPCB-...-H-...-F



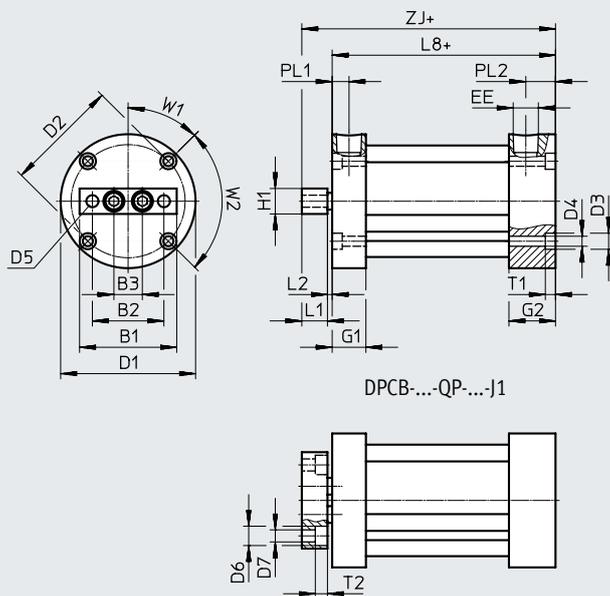
- + = plus stroke length
- ++ = plus 2x stroke length

Stroke [in]	D8 ø	[F]	ZJ	ZM
1/8...4	0.16	0.22	1.07	1.2

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

- [QP] With double piston rod
- [QP] [J1] With double piston rod and one end plate with recess and through-hole



Stroke [in]	B1	B2	B3	D1 ø	D2 ø	D3 ø	D4 ø	D5	D6 ø	D7 ø	EE
1/2...4	1.44	1.06	0.422	1.99	1.69	0.24	0.15	8-32 UNC	0.29 [J1]	0.18 [J1]	1/8 NPT

Stroke [in]	G1	G2	L1	L2	L8	PL1	PL2	T1	T2	W1	W2	ZJ
1/2...4	0.5	0.69	0.38	0.07	1.31	0.25	0.44	0.15	0.18 [J1]	45°	90°	1.76

Datasheet

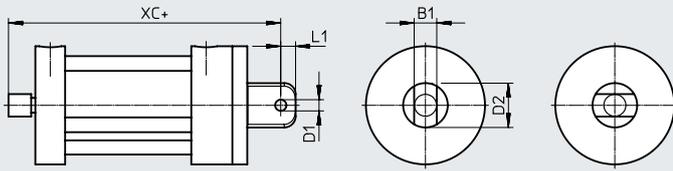
Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[QP] [U] With double piston rod and swivelling rod eye

[QP] [U90] With double piston rod and swivelling rod eye, rotated 90°

DPCB-...-QP-...-U DPCB-...-QP-...-U90

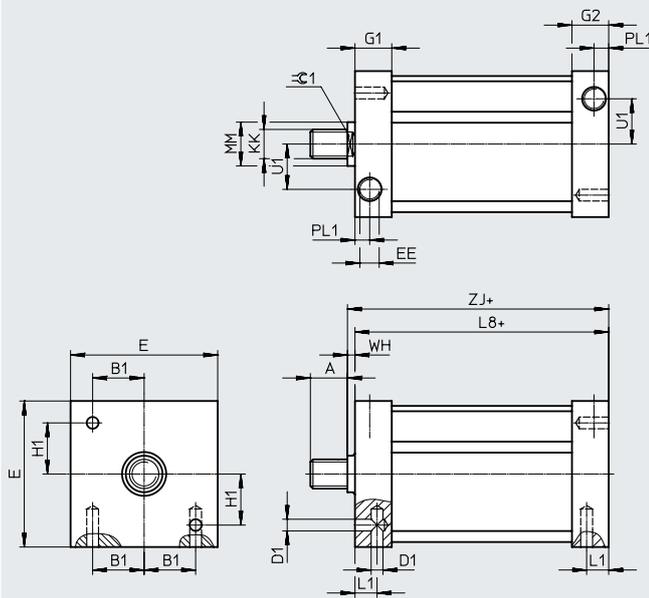


Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/2...4	0.38	0.19	0.75	0.25	2.57

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.5	0.5	8-32 UNC	1.5	1/8 NPT	0.58	0.5	0.5	5/16-18 UNC 5/16-24 UNF

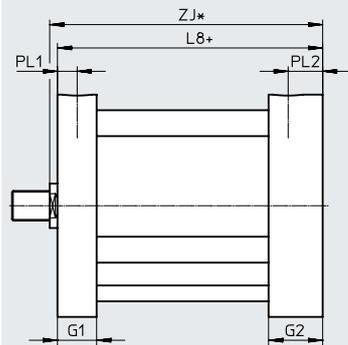
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...4	0.38	1.25	0.5	0.25	0.5	0.13	1.38	0.44

Datasheet

**Dimensions – piston Ø 1 1/16**

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



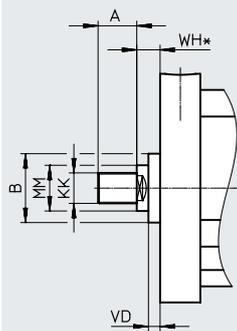
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.5	0.69	1.07	0.25	0.44	1.2

**Dimensions – piston Ø 1 1/16**

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



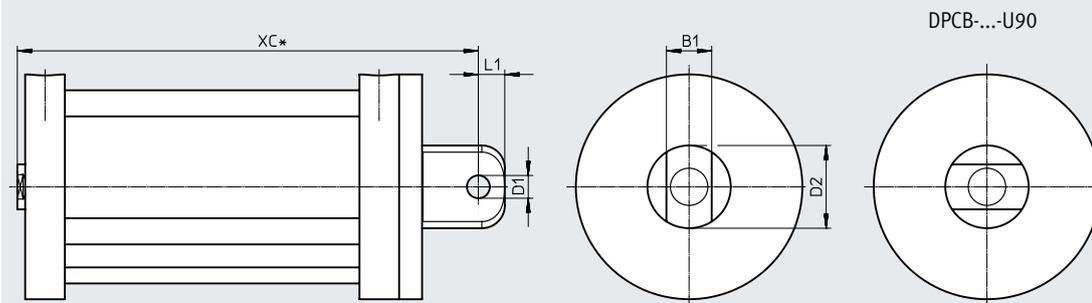
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	0.88	5/16-18 UNC 5/16-24 UNF	0.5	0.38	0.19

**Dimensions – piston Ø 1 1/16**

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

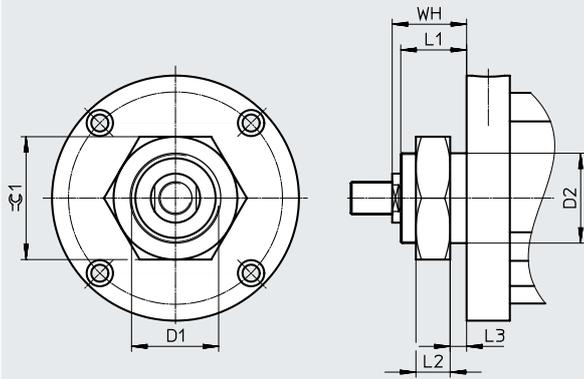
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	0.38	0.19	0.75	0.25	1.82

Datasheet

Dimensions – piston  $\varnothing$  1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 $\varnothing$	L1	L2	L3	WH	$\sqrt{\text{C}} 1$
1/8...4	1-14 UNF-2A	1	0.75	0.55	0.13	0.88	1.5

Dimensions – piston  $\varnothing$  1 1/16

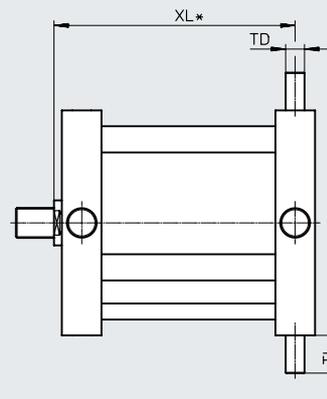
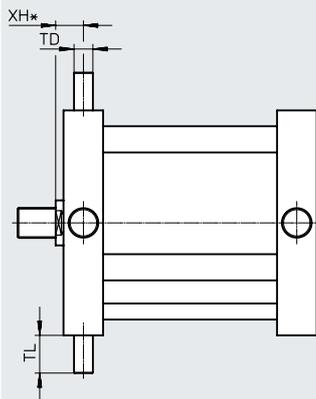
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB...-Y2

DPCB...-Y3



XL\* = plus stroke length

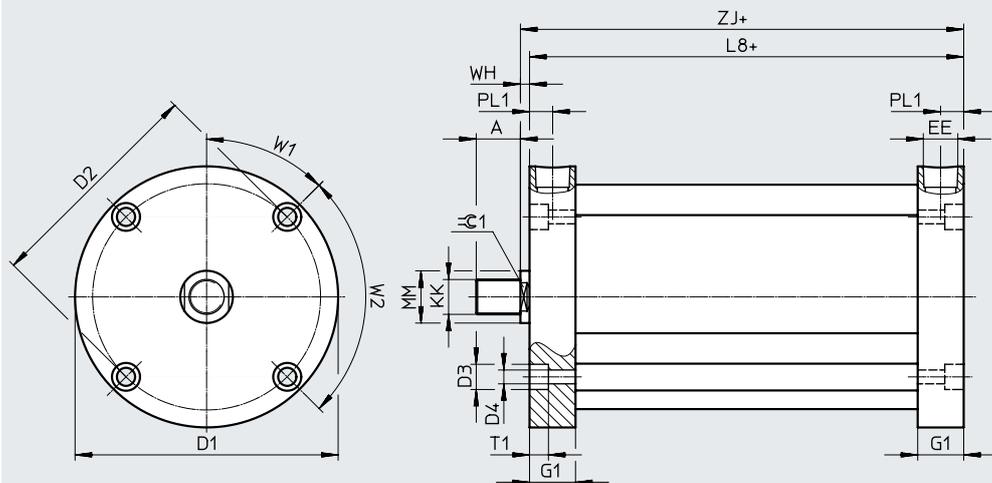
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.25	0.5	0.38	0.76

Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...4	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...4	0.88	0.63	0.25	0.22	45°	90°	0.13	1.01	0.5

Dimensions – piston Ø 1 1/2

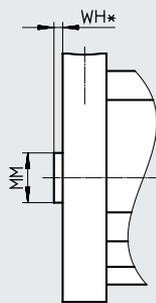
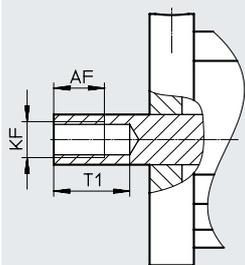
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8...4	0.75	3/8-16 UNC	3/8-24 UNF	1.125	0.63	0.13

Datasheet

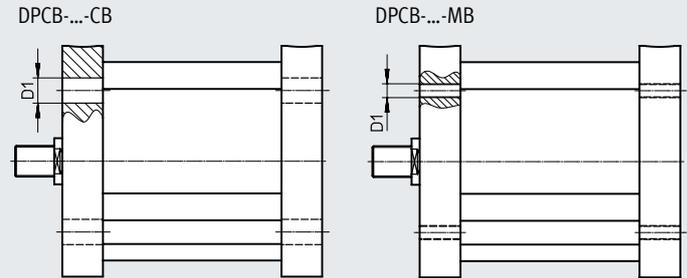
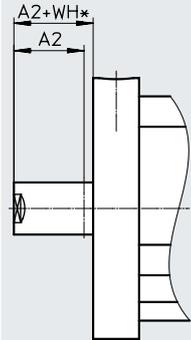
Dimensions – piston  $\varnothing$  1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

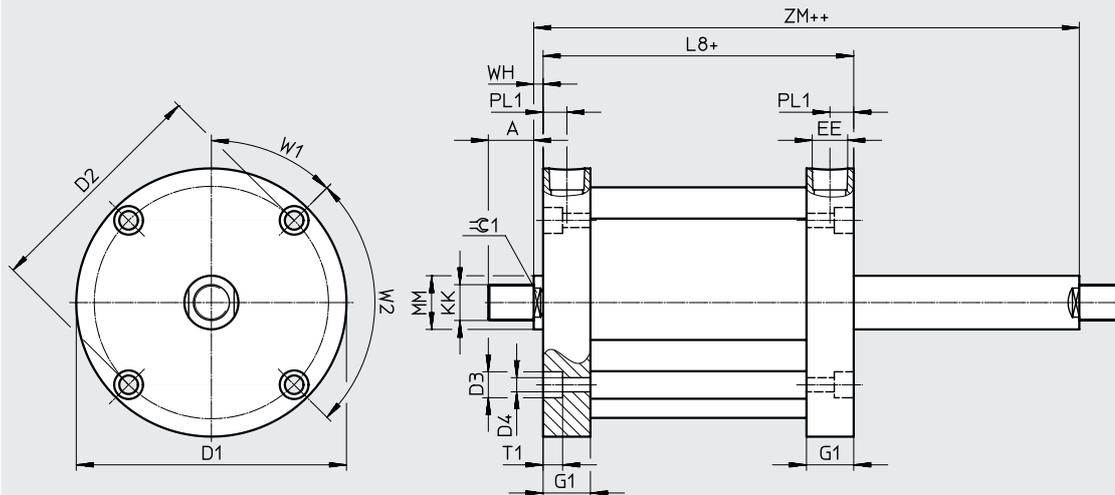


Stroke [in]	A2		WH	D1 ∅	
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

Dimensions – piston  $\varnothing$  1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK	
1/8...4	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	≈G 1
1/8...4	1	0.63	0.25	0.22	45°	90°	0.13	1.26	0.5

Datasheet

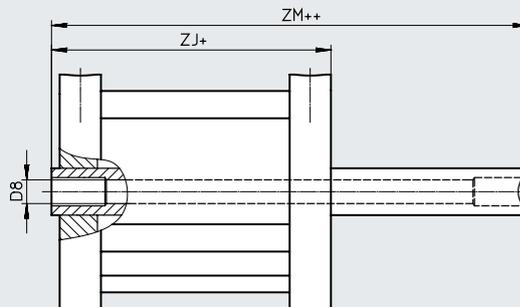
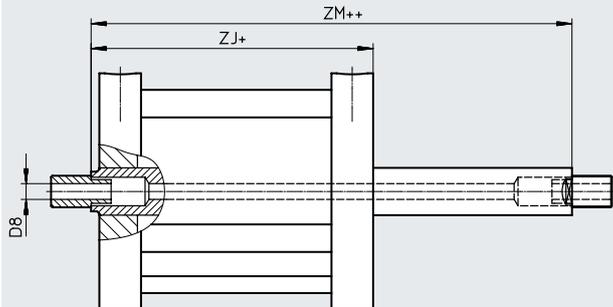
Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



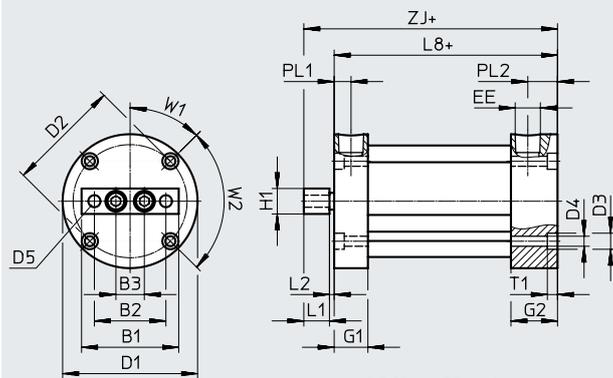
+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	D8 ø	[F]	ZJ	ZM
1/8...4	0.19	0.28	1.13	1.26

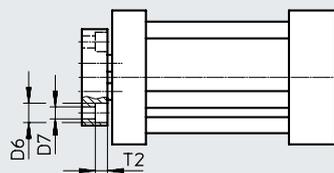
Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [QP] With double piston rod
- [QP] [J1] With double piston rod and one end plate with recess and through-hole



DPCB-...-QP-...-J1



Stroke [in]	B1	B2	B3	D1 ø	D2 ø	D3 ø	D4 ø	D5	D6 ø	D7 ø	EE
1/2...4	2	1.5	0.562	2.62	2.19	0.34	0.2	1/4-20 UNC	0.4	0.26	1/8 NPT

Stroke [in]	G1	G2	L1	L2	L8	PL1	PL2	T1	T2	W1	W2	ZJ
1/2...4	0.5	0.69	0.5	0.07	1.3	0.25	0.44	0.22	0.27	45°	90°	1.88

Datasheet

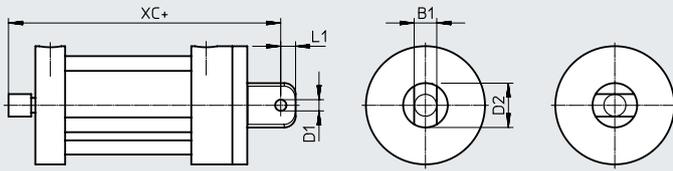
Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[QP] [U] With double piston rod and swivelling rod eye

[QP] [U90] With double piston rod and swivelling rod eye, rotated 90°

DPCB-...-QP-...-U DPCB-...-QP-...-U90

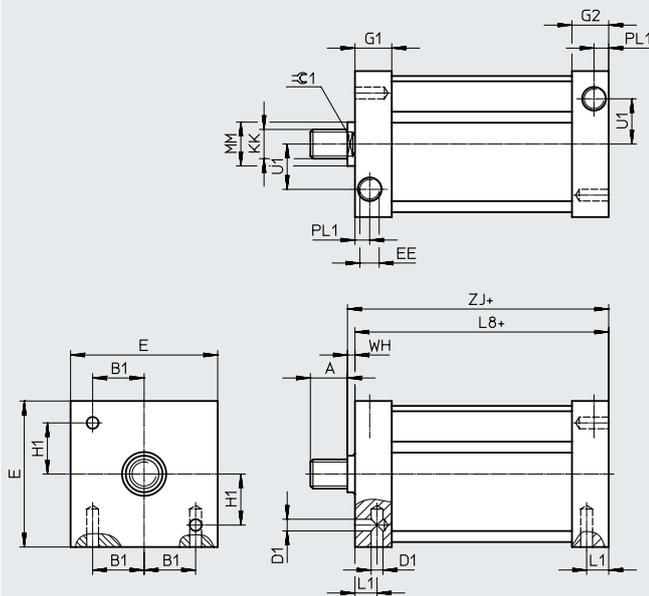


Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/2...4	0.75	0.38	1.38	0.44	3.07

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.5	0.69	10-24 UNC	2	1/8 NPT	0.58	0.5	0.69	3/8-16 UNC 3/8-24 UNF

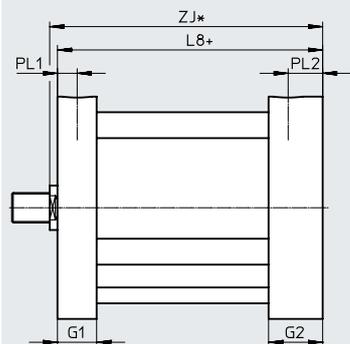
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...4	0.31	1.25	0.63	0.25	0.73	0.13	1.38	0.5

Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



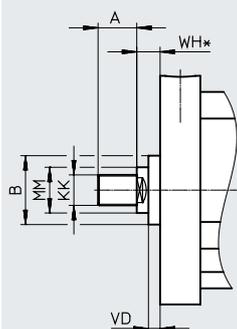
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.5	0.69	1.07	0.25	0.44	1.2

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



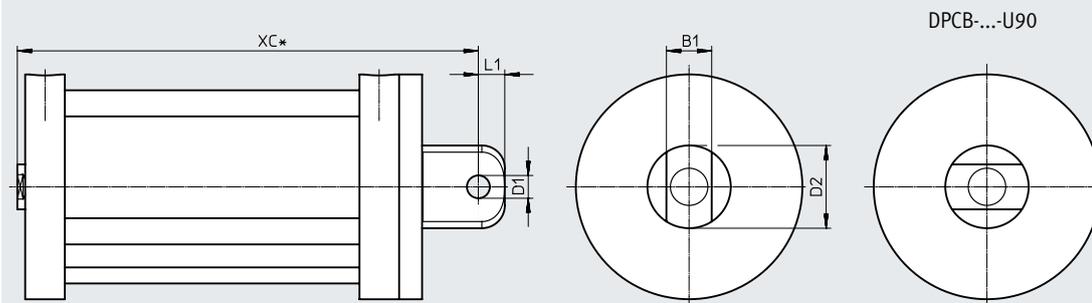
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	1	3/8-16 UNC 3/8-24 UNF	0.63	0.38	0.19

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

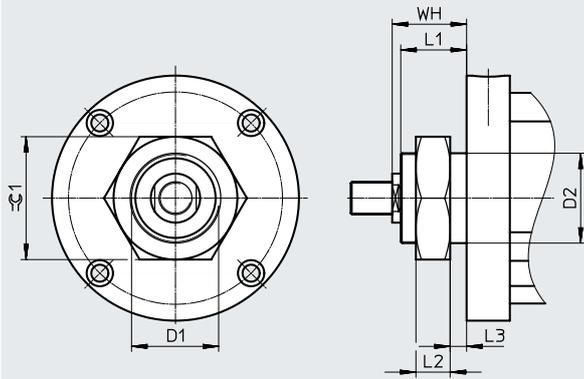
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	0.75	0.38	1.38	0.44	2.2

Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⌀ 1
1/8...4	1 1/4-12 UNF-2A	1.25	0.75	0.52	0.13	0.88	1.88

Dimensions – piston Ø 1 1/2

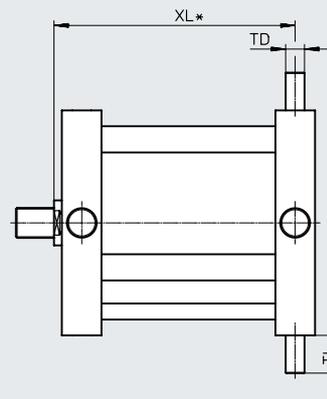
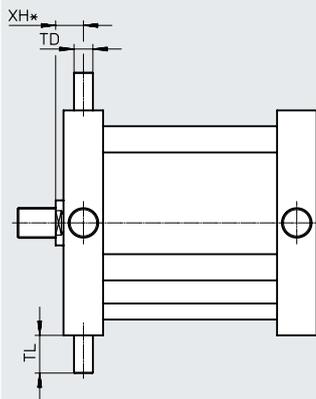
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB...-Y2

DPCB...-Y3



XL\* = plus stroke length

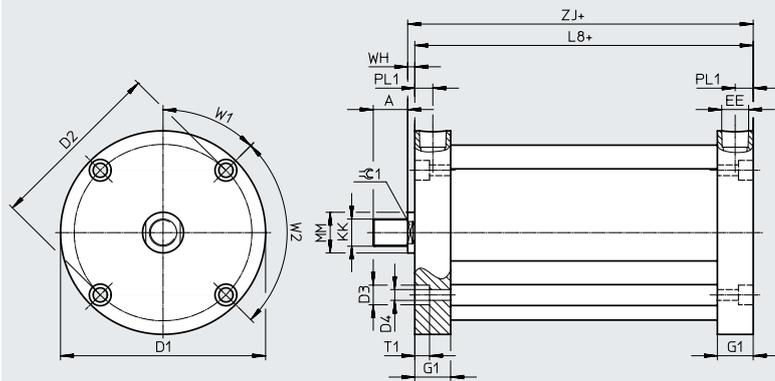
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.25	0.5	0.38	0.76

Datasheet

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
1/4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
3/8	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
1/2	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
5/8	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
3/4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
7/8...4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1/4	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
3/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1/2	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
5/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
3/4	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
7/8...4	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63

Dimensions – piston Ø 2

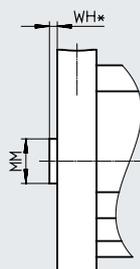
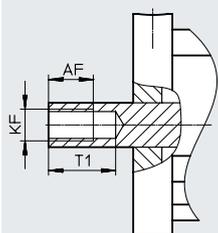
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.3	1/2-13 UNC	1/2-20 UNF	0.45	0.75	0.13
1/4	0.4	1/2-13 UNC	1/2-20 UNF	0.562	0.75	0.13
3/8	0.53	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
3/4	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
7/8...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

Datasheet

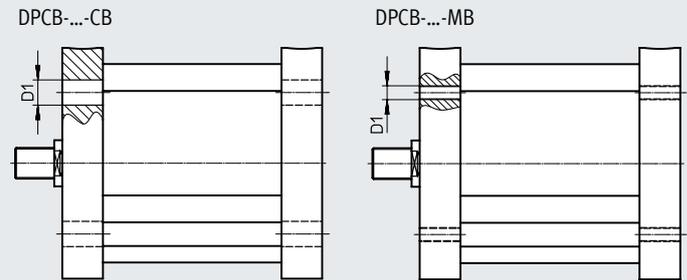
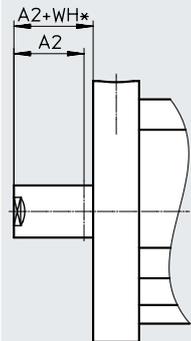
Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

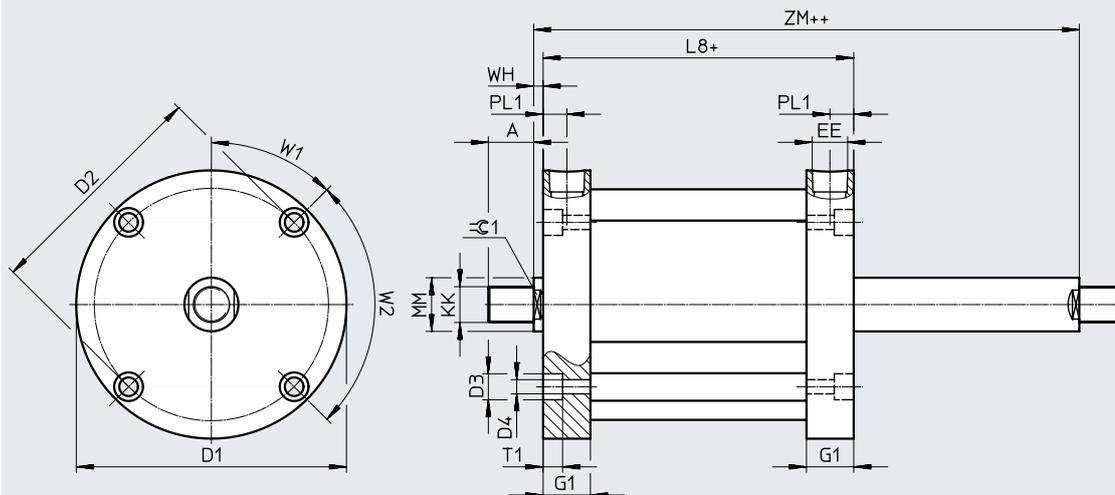


Stroke [in]	A2		WH	D1 ∅	
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK	
1/8...4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	≈G 1
1/8...4	1.06	0.75	0.25	0.22	45°	90°	0.13	1.32	0.63

Datasheet

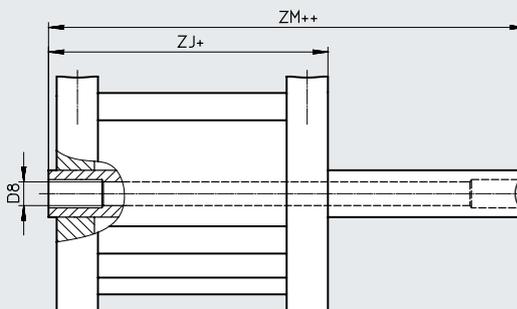
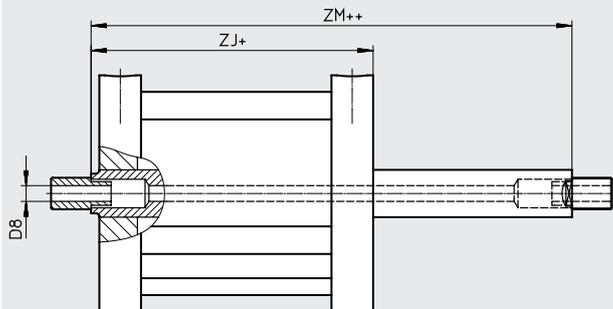
Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



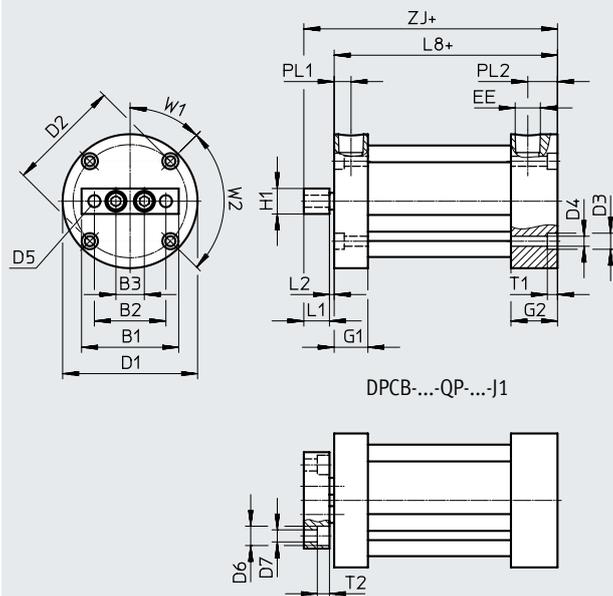
+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	D8	[F]	ZJ	ZM
1/8...4	0.25	0.38	1.19	1.32

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

- [QP] With double piston rod
- [QP] [J1] With double piston rod and one end plate with recess and through-hole



Stroke [in]	B1	B2	B3	D1	D2	D3	D4	D5	D6	D7	EE
1/2...4	2.5	1.88	0.75	3.12	2.69	0.34	0.2	5/16-18 UNC	0.49	0.33	1/8 NPT

Stroke [in]	G1	G2	L1	L2	L8	PL1	PL2	T1	T2	W1	W2	ZJ
1/2...4	0.53	0.72	0.63	0.07	1.38	0.25	0.44	0.22	0.33	45°	90°	2.08

Datasheet

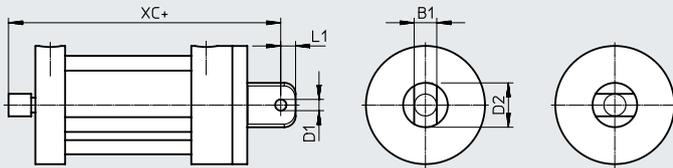
Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[QP] [U] With double piston rod and swivelling rod eye

[QP] [U90] With double piston rod and swivelling rod eye, rotated 90°

DPCB-...-QP-...-U DPCB-...-QP-...-U90

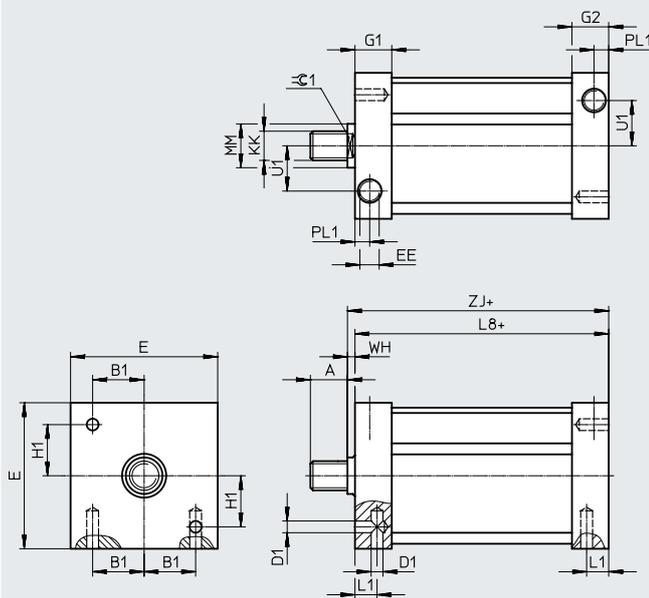


Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/2...4	0.75	0.38	1.38	0.44	3.33

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.63	0.88	1/4-20 UNC	2.5	1/8 NPT	0.63	0.63	0.88	1/2-13 UNC 1/2-20 UNF

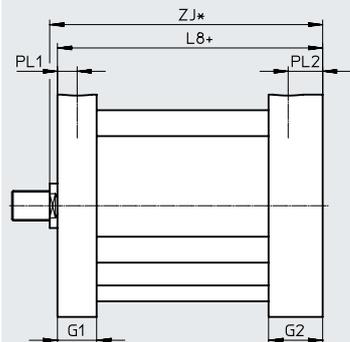
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...4	0.38	1.31	0.75	0.25	0.77	0.13	1.44	0.63

Datasheet

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



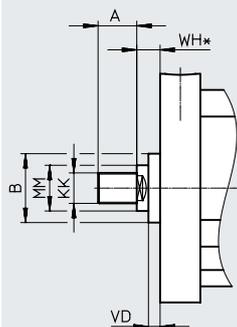
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.53	0.72	1.13	0.25	0.44	1.26

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



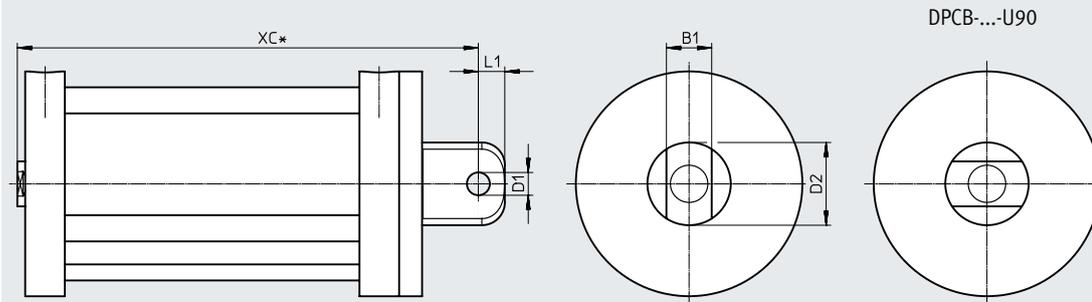
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC 1/2-20 UNF	0.75	0.38	0.19

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

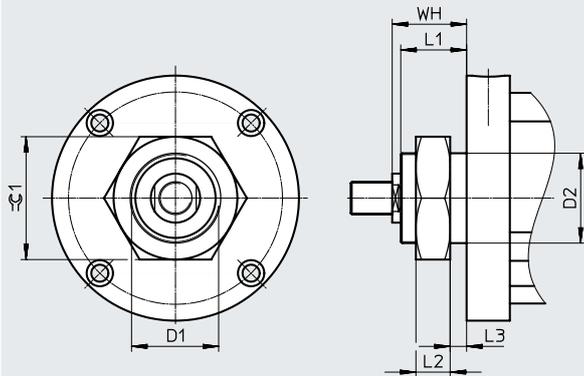
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	0.75	0.38	1.38	0.44	2.32

Datasheet

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⊖ 1
1/8...4	1 3/8-12 UNF-2A	1.38	0.88	0.52	0.19	1.01	1.88

Dimensions – piston Ø 2

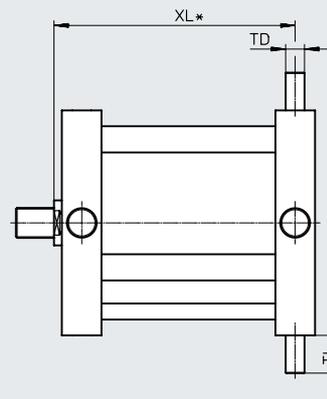
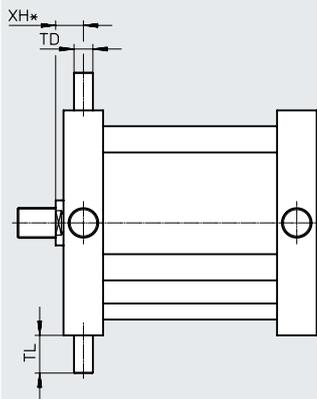
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB...-Y2

DPCB...-Y3



XL\* = plus stroke length

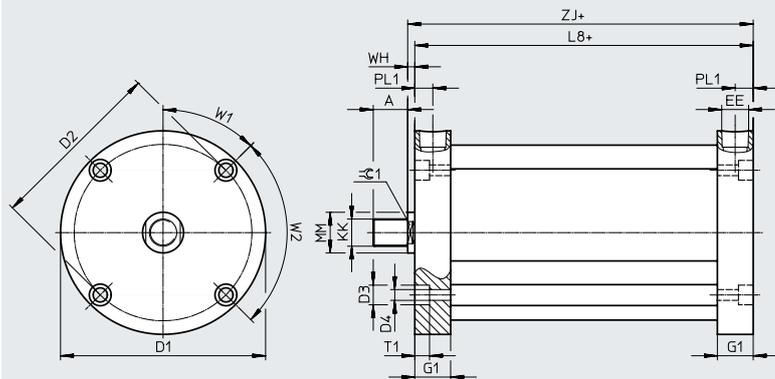
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.25	0.5	0.38	0.82

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
1/4	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
3/8	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
1/2	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
5/8	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
3/4...4	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
1/4	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
3/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
1/2	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
5/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
3/4...4	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63

Dimensions – piston Ø 2 1/2

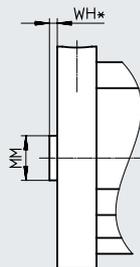
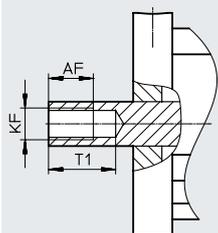
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.425	1/2-13 UNC	1/2-20 UNF	0.575	0.75	0.13
1/4	0.535	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
3/8	0.645	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
3/4...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

Datasheet

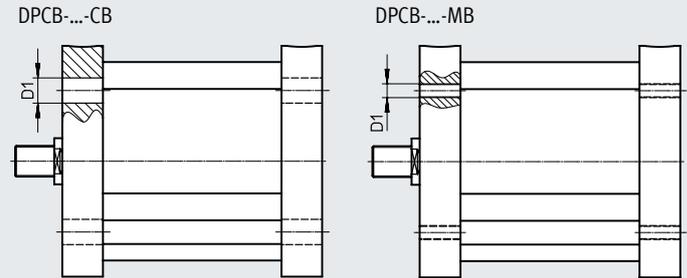
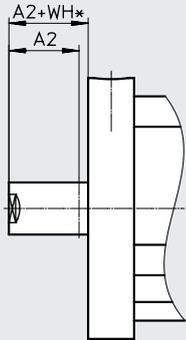
Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

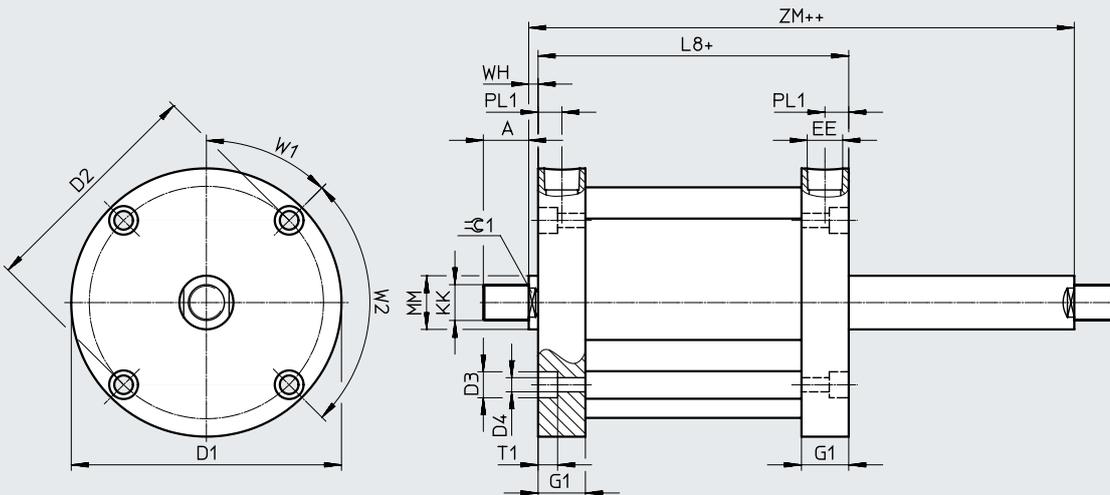


Stroke [in]	A2		WH	D1 ∅	
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK	
1/8...4	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	≈G 1
1/8...4	1.31	0.75	0.33	0.27	45°	90°	0.13	1.57	0.63

Datasheet

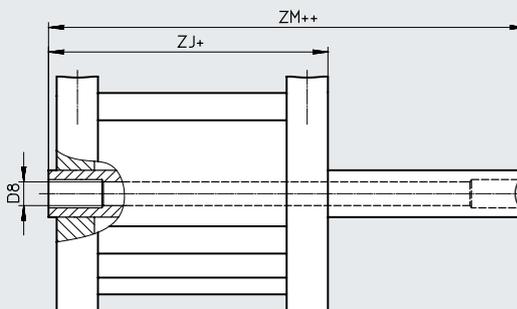
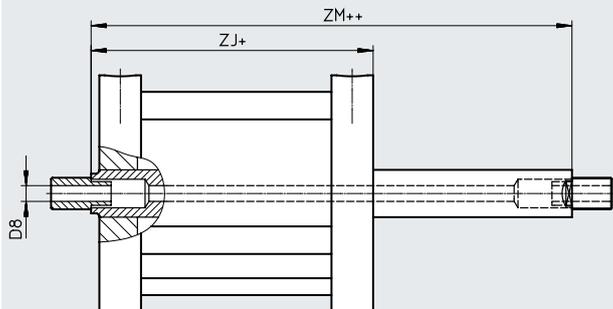
Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [H] Through, hollow piston rod
- [H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



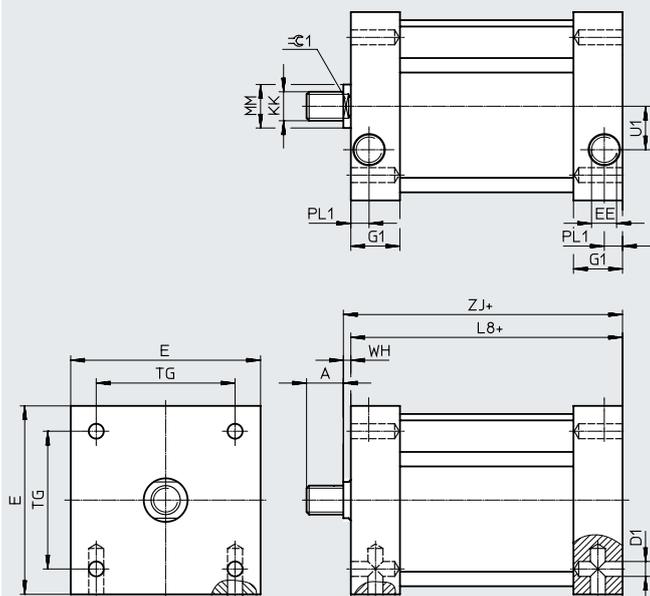
+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	D8 ∅	[F]	ZJ	ZM
1/8...4	0.25	0.38	1.44	1.57

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.63	5/16-18 UNC	3.25	1/4 NPT	0.84	1/2-13 UNC 1/2-20 UNF	0.42

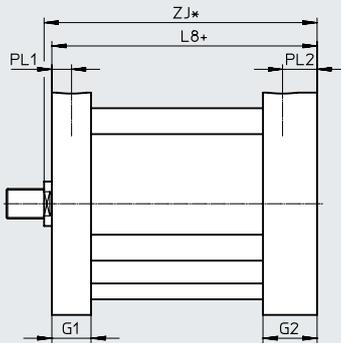
Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅G 1
1/8...4	1.66	0.75	0.31	2.36	0.75	0.13	1.79	0.63

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



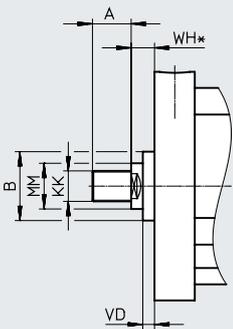
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.66	0.91	1.44	0.33	0.58	1.57

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



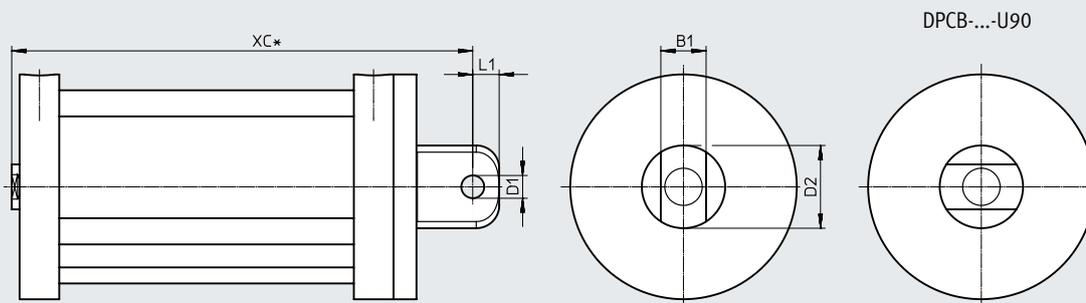
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC 1/2-20 UNF	0.75	0.38	0.19

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

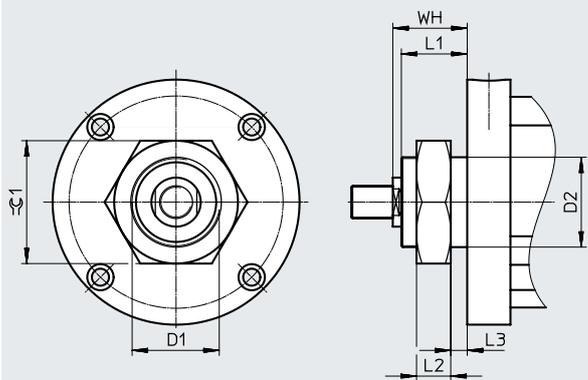
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	0.75	0.38	1.38	0.44	2.63

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	☉ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

Dimensions – piston Ø 2 1/2

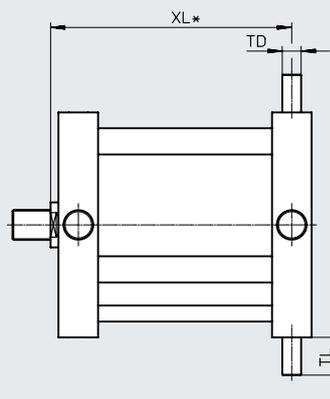
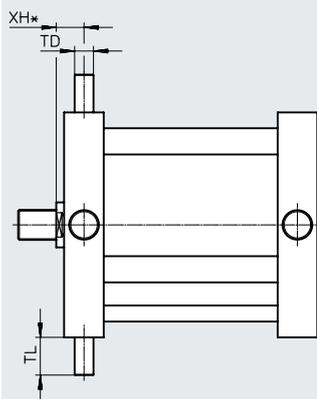
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XL\* = plus stroke length

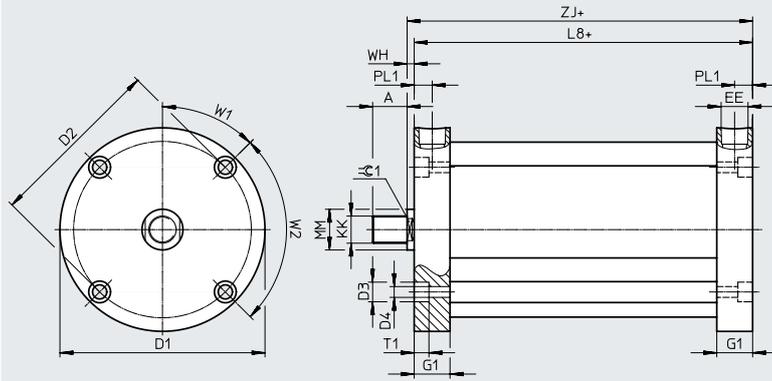
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.312	0.63	0.46	0.99

Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
1/4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
3/8	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
1/2	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
5/8	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
3/4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
7/8...4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈G 1
1/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1/4	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
3/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1/2	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
5/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
3/4	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
7/8...4	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75

Dimensions – piston Ø 3

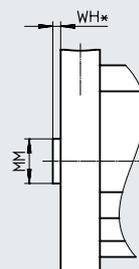
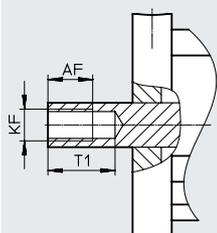
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.45	5/8-11 UNC	5/8-18 UNF	0.6	0.88	0.13
1/4	0.5	5/8-11 UNC	5/8-18 UNF	0.725	0.88	0.13
3/8	0.625	5/8-11 UNC	5/8-18 UNF	0.85	0.88	0.13
1/2	0.75	5/8-11 UNC	5/8-18 UNF	0.975	0.88	0.13
5/8	0.8125	5/8-11 UNC	5/8-18 UNF	1.1	0.88	0.13
3/4	0.8125	5/8-11 UNC	5/8-18 UNF	1.225	0.88	0.13
7/8...4	0.8125	5/8-11 UNC	5/8-18 UNF	1.25	0.88	0.13

Datasheet

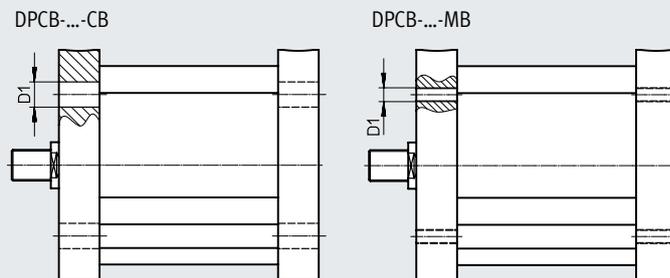
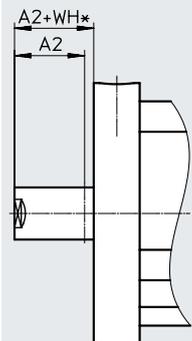
Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

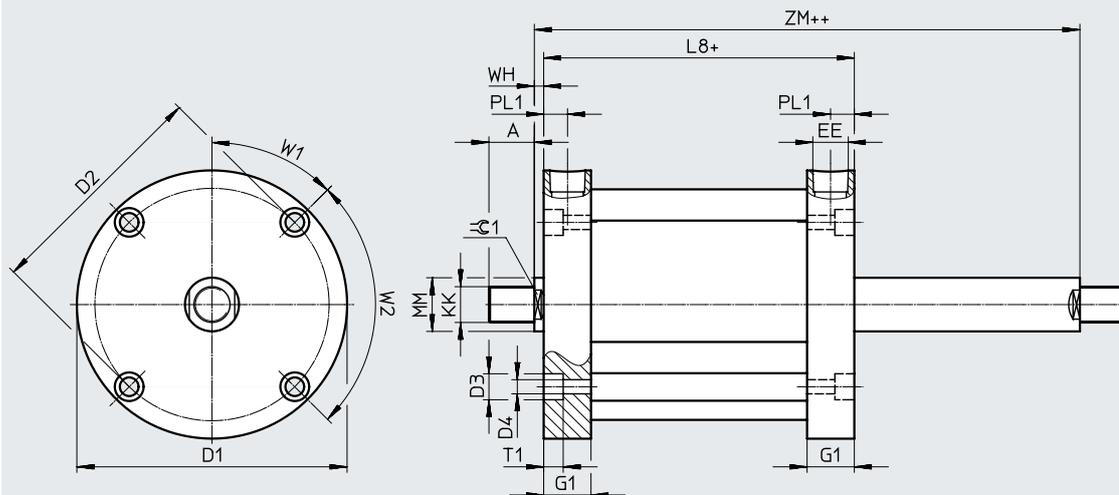


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.41	[MB] 1/4-20 UNC

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	D2 ∅	D3 ∅	D4 ∅	EE	G1	KK	
1/8...4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF

Stroke [in]	L8	MM ∅	PL1	T1	W1	W2	WH	ZM	∅ 1
1/8...4	1.38	0.88	0.33	0.27	45°	90°	0.13	1.64	0.75

Datasheet

Dimensions – piston Ø 3

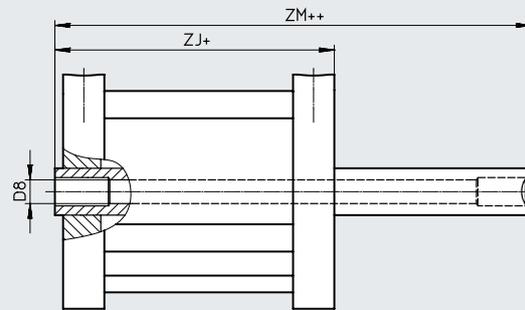
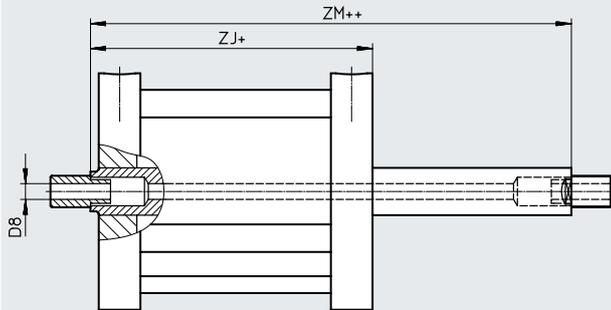
Download CAD data → [www.festo.com](http://www.festo.com)

[H] Through, hollow piston rod

[H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



+ = plus stroke length

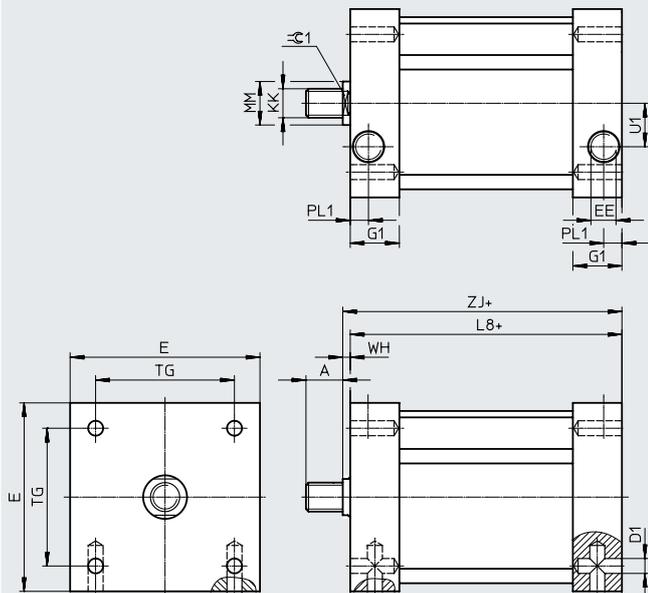
++ = plus 2x stroke length

Stroke [in]	D8 Ø	[F]	ZJ	ZM
1/8...4	0.31	0.44	1.51	1.64

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



+ = plus stroke length

Stroke [in]	A	D1 Ø	E	EE	G1	KK	L1
1/8...4	0.75	5/16-18 UNC	3.75	1/4 NPT	0.88	5/8-11 UNC 5/8-18 UNF	0.44

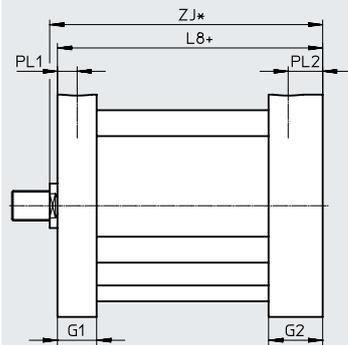
Stroke [in]	L8	MM Ø	PL1	TG	U1)	WH	ZJ	⊕ 1
1/8...4	1.71	0.88	0.31	2.88	0.88	0.13	1.84	0.75

Datasheet

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



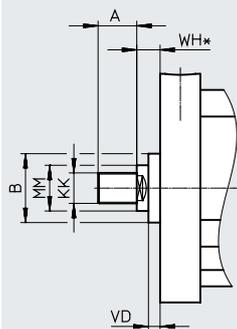
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.69	0.94	1.5	0.33	0.58	1.63

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



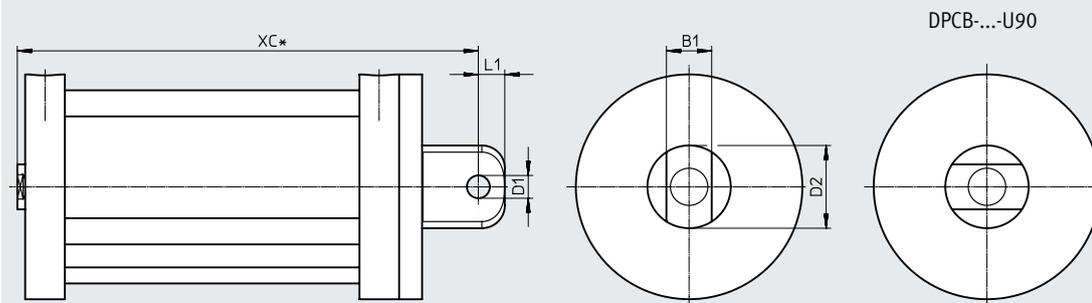
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.75	1.25	5/8-11 UNC 5/8-18 UNF	0.88	0.38	0.19

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus stroke length

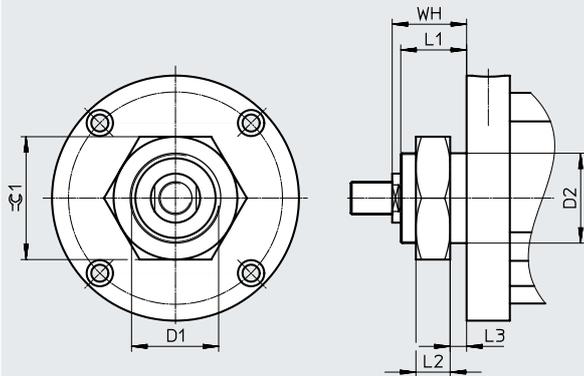
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	1	0.63	1.88	0.56	3.07

Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⊖ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

Dimensions – piston Ø 3

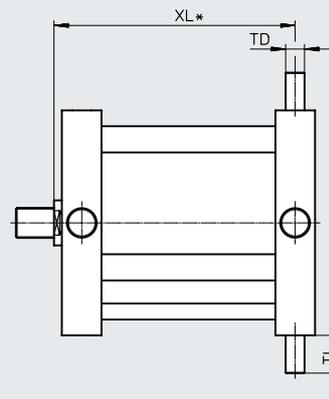
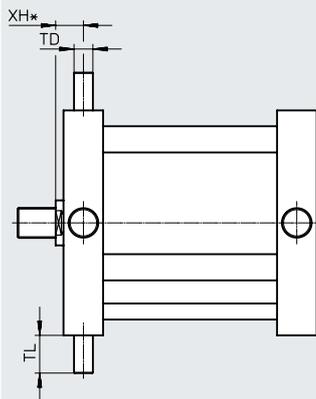
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB...-Y2

DPCB...-Y3



XL\* = plus stroke length

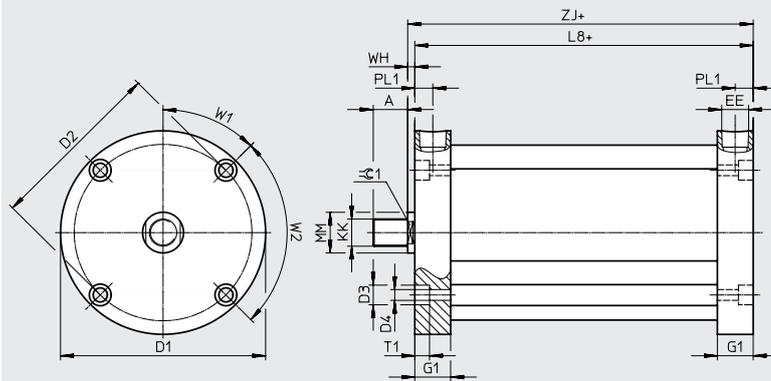
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.312	0.63	0.46	1.05

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

[ ] Male thread



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
1/4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
3/8	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
1/2	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
5/8	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
3/4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
7/8	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
1...4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
1/4	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
3/8	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
1/2	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
5/8	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
3/4	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
7/8	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
1...4	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88

Datasheet

Dimensions – piston Ø 4

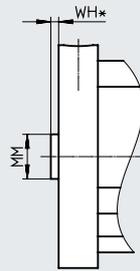
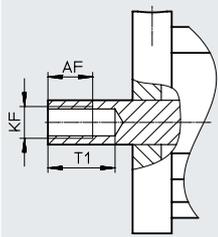
Download CAD data → [www.festo.com](http://www.festo.com)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ∅	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.4	3/4-10 UNC	3/4-16 UNF	0.54	1	0.13
1/4	0.45	3/4-10 UNC	3/4-16 UNF	0.625	1	0.13
3/8	0.575	3/4-10 UNC	3/4-16 UNF	0.75	1	0.13
1/2	0.7	3/4-10 UNC	3/4-16 UNF	0.875	1	0.13
5/8	0.825	3/4-10 UNC	3/4-16 UNF	1	1	0.13
3/4	0.875	3/4-10 UNC	3/4-16 UNF	1.125	1	0.13
7/8	0.875	3/4-10 UNC	3/4-16 UNF	1.25	1	0.13
1...4	0.875	3/4-10 UNC	3/4-16 UNF	1.375	1	0.13

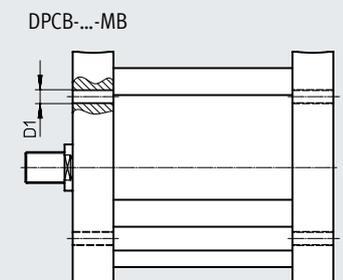
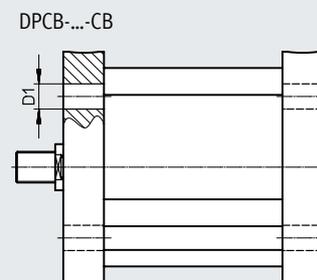
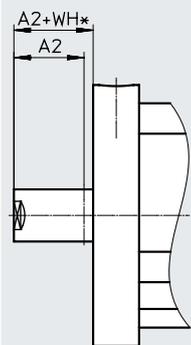
Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

[NE] Piston rod extension

[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends



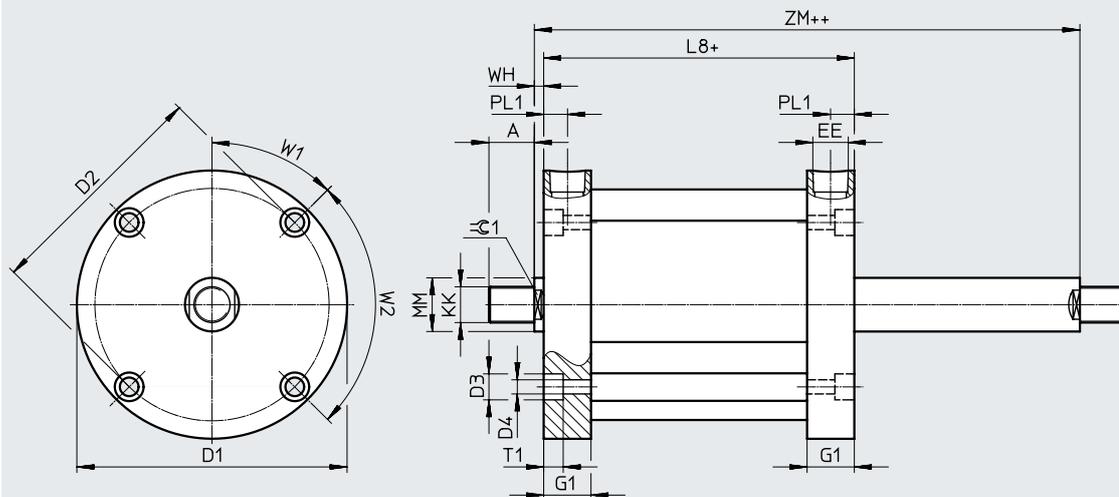
Stroke [in]	A2		WH	D1 ∅	D1 ∅
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.5	5/16-18 UNC

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

[T] Through piston rod



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK
1/8...4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC 3/4-16 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZM	⊕ 1
1/8...4	1.69	1	0.42	0.33	45°	90°	0.13	1.95	0.88

Dimensions – piston Ø 4

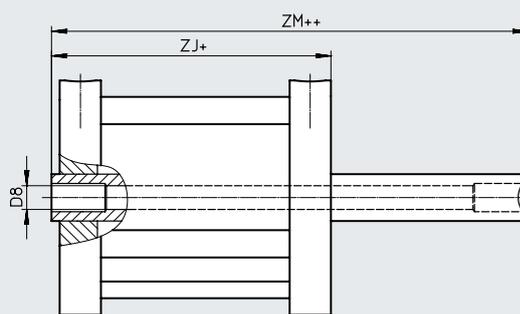
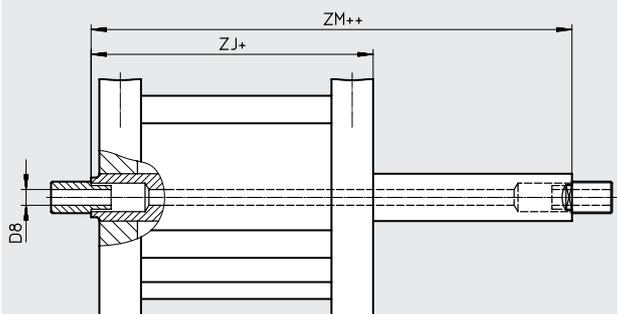
Download CAD data → [www.festo.com](http://www.festo.com)

[H] Through, hollow piston rod

[H] [F] Through, hollow piston rod with female thread

DPCB-...-H

DPCB-...-H-...-F



+ = plus stroke length  
 ++ = plus 2x stroke length

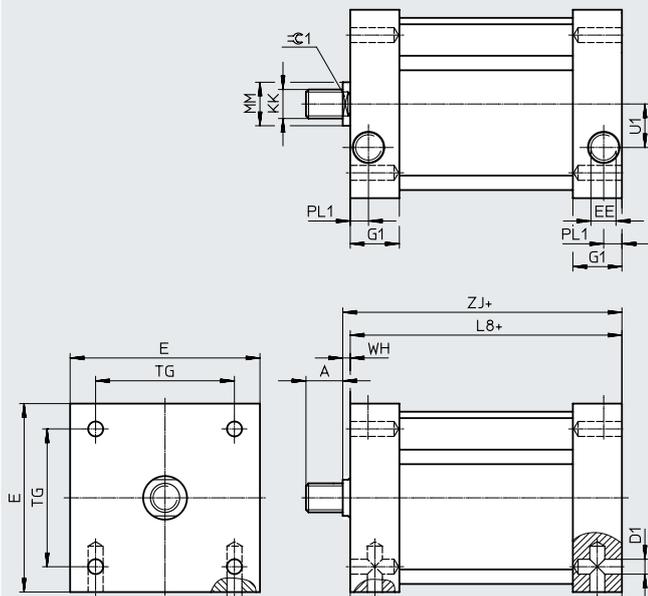
Stroke [in]	D8 ø		ZJ	ZM
		[F]		
1/8...4	0.38	0.5	1.82	1.95

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

[QX] Square cap shape



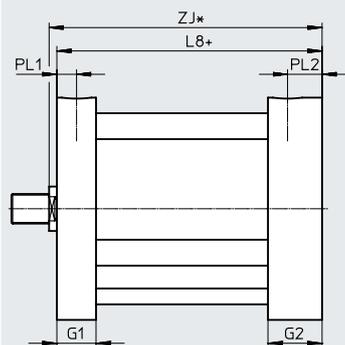
+ = plus stroke length

Stroke [in]	A	D1 Ø	E	EE	G1	KK	L1	
1/8...4	0.75	7/16-14 UNC	5	3/8 NPT	1	3/4-10 UNC 3/4-16 UNF	0.5	
Stroke [in]	L8	MM Ø	PL1	TG	U1)	WH	ZJ	⊖ 1
1/8...4	2	1	0.44	3.62	1.25	0.13	2.13	0.88

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

[V] Reinforced end cap



\*/+ = plus stroke length

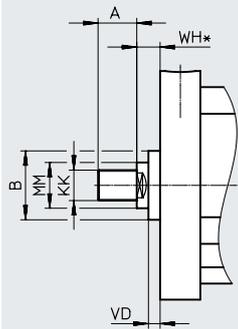
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...4	0.84	1.22	1.94	0.42	0.8	2.07

Datasheet

**Dimensions – piston Ø 4**

Download CAD data → [www.festo.com](http://www.festo.com)

[A4] Wiper made of NBR



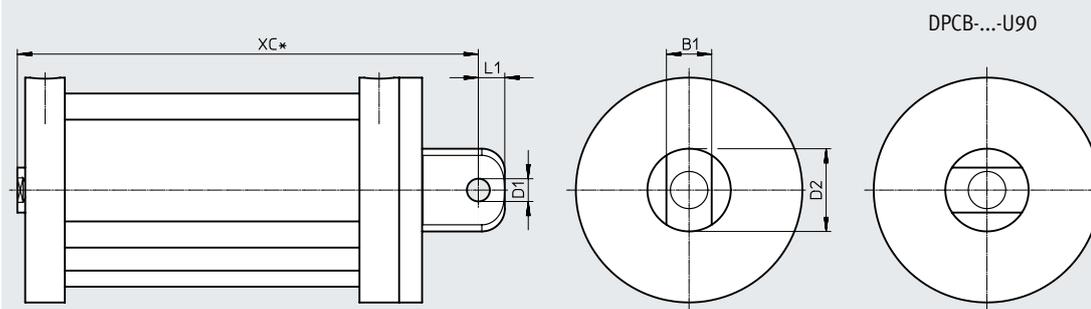
Stroke [in]	A	B	KK		MM Ø	WH	VD
1/8...4	0.75	1.38	3/4-10 UNC	3/4-16 UNF	1	0.38	0.19

**Dimensions – piston Ø 4**

Download CAD data → [www.festo.com](http://www.festo.com)

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



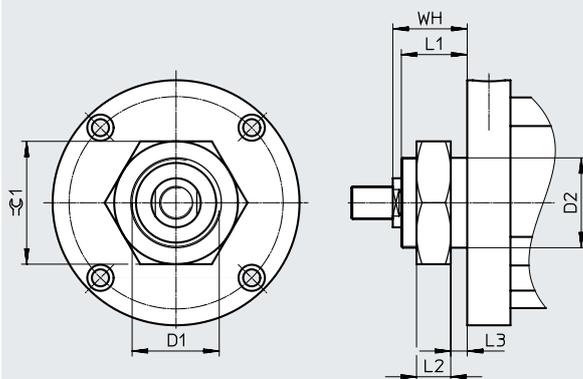
+ = plus stroke length

Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...4	1	0.63	1.88	0.56	3.44

**Dimensions – piston Ø 4**

Download CAD data → [www.festo.com](http://www.festo.com)

[FT] Flange thread, front



Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⊖ 1
1/8...4	1 3/4-12 UNF-2A	1.75	1.12	0.88	0.19	1.25	2.62

Datasheet

Dimensions – piston Ø 4

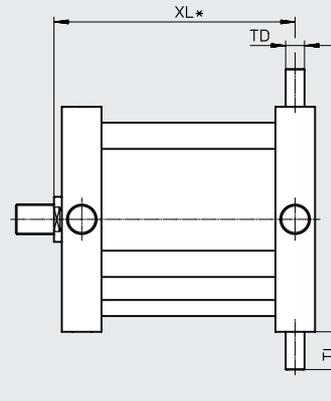
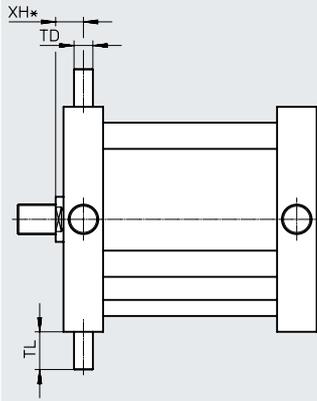
Download CAD data → [www.festo.com](http://www.festo.com)

[Y2] Trunnion flange mounting position, front

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XL\* = plus stroke length

Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.375	0.75	0.55	1.27

Ordering data – Modular product system

Ordering table											
Piston Ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Module no.	<b>8104879</b>	<b>8104880</b>	<b>8104881</b>	<b>8104882</b>	<b>8104883</b>	<b>8104884</b>	<b>8104885</b>	<b>8104886</b>			
Function	Compact cylinder, double-acting									DPCB	DPCB
System of units	Imperial										
Protection against rotation	Without										
	–	With double piston rod				–	–	–	[1]	-QP	
Running characteristics	Standard										
	Low friction									[2]	L
Piston Ø	1/2"	3/4"	1 1/16"	1 1/2"	2"	2 1/2"	3"	4"		-..."	
Stroke											
1/8"	1)	1)	1)	1)	1)	1)	1)	1)		-1/8"	
1/4"	1)	1)	1)	1)	1)	1)	1)	1)		-1/4"	
3/8"										-3/8"	
1/2"										-1/2"	
5/8"										-5/8"	
3/4"										-3/4"	
7/8"										-7/8"	
1"										-1"	
1 1/8"										-1 1/8"	
1 1/4"										-1 1/4"	
1 3/8"										-1 1/8"	
1 1/2"										-1 1/2"	
1 5/8"										-1 1/8"	
1 3/4"										-1 3/4"	
1 7/8"										-1 7/8"	
2"										-2"	
2 1/8"										-2 1/8"	
2 1/4"										-2 1/4"	
2 3/8"										-2 3/8"	
2 1/2"										-2 1/2"	
2 5/8"										-2 5/8"	
2 3/4"										-2 3/4"	
2 7/8"										-2 7/8"	
3"										-3"	
3 1/8"										-3 1/8"	
3 1/4"										-3 1/4"	
3 3/8"										-3 3/8"	
3 1/2"										-3 1/2"	
3 5/8"										-3 5/8"	
3 3/4"										-3 3/4"	
3 7/8"										-3 7/8"	
4"										-4"	

- [1] QP  
Not with male thread F, N  
Not with piston Ø 1/2, 2 1/2, 3, 4  
Mandatory in combination with piston rod design: one end plate, J1, J90, J91
- [2] L, H, T, V, FT, P2, P3, A4, U10, U12, U34, U38, U58, U8C, U10C, U12C, U34C, U38C, U516, U58C, U516C  
Not with QP
- 1) Not with A

## Ordering data – Modular product system

Ordering table		1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code	
Function	Double-acting												
Piston rod type	At one end												
	Through, hollow piston rod										[2]	<b>H</b>	
	Through piston rod										[2]	<b>T</b>	
Piston rod design	One end plate												
	One end plate with recess and through-hole												
	One end plate, rotated 90°										[6]	<b>J90</b>	
	One end plate with recess and through-hole, rotated 90°										[6]	<b>J91</b>	
Piston rod thread type	Male thread												
	Female thread												
	No thread												
Compressed air supply port	Lateral												
	– Rotated 90°										[3] [10]	<b>P90</b>	
	Rotated 180°										[10]	<b>P180</b>	
	– Rotated 270°										[3] [10]	<b>P270</b>	
Cover shape	Round												
	– Square										[3]	<b>QX</b>	
End cap	Standard												
	Reinforced												
Type of mounting	Standard												
	With swivelling rod eye										[4]	<b>U</b>	
	Through-holes, at both ends												
	Through-holes, front												
	Through-holes, rear												
	Flange thread, front										[2] [10]	<b>FT</b>	
	Mounting thread, at both ends												
	Mounting thread, front												
	Mounting thread, rear												
	– Trunnion flange mounting position, front										[3] [10]	<b>Y2</b>	
	– Trunnion flange mounting position, rear										[3] [10]	<b>Y3</b>	
	With swivelling rod eye, rotated 90°										[4]	<b>U90)</b>	
	Cushioning	No cushioning											
Elastic cushioning rings/plates at both ends										[2]	<b>-P</b>		
Elastic cushioning rings/plates, front										[2]	<b>-P2</b>		
Elastic cushioning rings/plates, rear										[2]	<b>-P3</b>		
Position sensing	Without												
	Via proximity switch												
Temperature range	Standard												
	-40 ... + 176 °F												
Wiper variant	None												
	Increased chemical resistance												
	Wiper made of NBR										[2] [13]	<b>-A4</b>	
Extended piston rod	0.001...6"												

[2] L, H, T, V, FT, P2, P3, A4, U10, U12, U34, U38, U58, U8C, U10C, U12C, U34C, U38C, U516, U58C, U516C  
Not with QP

[3] P90, P270, QX, Y2, Y3  
Not with piston Ø 1/2

[4] V, U, U90  
Not with H, T

[5] F, N  
Not with piston rod design: one end plate, J1, J90, J91

[6] J90, J91  
Not with Y2

[10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3  
Not with QX

[13] V, A4  
Not with FT

Ordering data – Modular product system

Ordering table											
Piston ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Piston rod thread	Without										
	-	10-32 UNF-2A	-	-	-	-	-	-	[2]	-U10	
	-	-	-	-	1/2-20 UNF-2A	1/2-20 UNF-2A	-	-	[2]	-U12	
	-	-	-	-	-	-	-	3/4-16 UNF-2A	[2]	-U34	
	-	-	-	3/8-24 UNF-2A	-	-	-	-	[2]	-U38	
	-	-	-	-	-	-	5/8-18 UNF-2A	-	[2]	-U58	
	8-32 UNC	-	-	-	-	-	-	-	[2]	-U8C	
	-	10-24 UNC	-	-	-	-	-	-	[2]	-U10C	
	-	-	-	-	1/2-13 UNC	1/2-13 UNC	-	-	[2]	-U12C	
	-	-	-	-	-	-	-	3/4-10 UNC	[2]	-U34C	
	-	-	-	3/8-16 UNC	-	-	-	-	[2]	-U38C	
	-	-	5/16-24 UNF-2A	-	-	-	-	-	[2]	-U516	
	-	-	-	-	-	-	5/8-11 UNC	-	[2]	-U58C	
-	-	5/16-18 UNC	-	-	-	-	-	[2]	-U516C		

[2] L, H, T, V, FT, P2, P3, A4, U10, U12, U34, U38, U58, U8C, U10C, U12C, U34C, U38C, U516, U58C, U516C

Not with QP

[3] P90, P270, QX, Y2, Y3

Not with piston ø 1/2

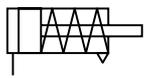
[10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3

Not with QX

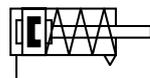
## Datasheet

## Function

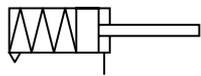
DPCB-...-S



DPCB-...-S-...-A



DPCB-...-P



DPCB-...-P-...-A



- Diameter  
1/2 ... 4 inch
- Stroke length  
1/8 ... 4 inch

**General technical data**

Piston $\varnothing$	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Design	Piston Piston rod Cylinder barrel							
Operating mode	Single-acting, pushing (piston rod retracted by spring force)							-
	Single-acting, pulling (piston rod advanced by spring force)							
Pneumatic connection with female thread	10-32 UNF-2B		1/8 NPT					
Piston rod thread								
[ ]	8-32 UNC-2A	10-24 UNC-2A	5/16-18 UNC-2A	3/8-16 UNC-2A	1/2-13 UNC-2A		5/8-11 UNC-2A	3/4-10 UNC-2A
[F]	8-32 UNC-2B	10-24 UNC-2B	5/16-18 UNC-2B	3/8-16 UNC-2B	1/2-13 UNC-2B		5/8-11 UNC-2B	3/4-10 UNC-2B
[ ]	-	10-32 UNF-2A	5/16-24 UNF-2A	3/8-24 UNF-2A	1/2-20 UNF-2A		5/8-18 UNF-2A	3/4-16 UNF-2A
[F]		10-32 UNF-2B	5/16-24 UNF-2B	3/8-24 UNF-2B	1/2-20 UNF-2B		5/8-18 UNF-2B	3/4-16 UNF-2B
Piston rod end	Male thread Female thread							
Stroke [in]	1/8 ... 4							
Cushioning								
[P]	Elastic cushioning rings/plates at both ends							
[P2]	Elastic cushioning rings/plates, at front							
[P3]	Elastic cushioning rings/plates, rear							
Position sensing	Via proximity switch							
Type of mounting								
[U]	With swivelling rod eye on end cap							
[U90]	With swivelling rod eye on end cap rotated 90°							
[CB]	With through-hole at both ends							
[CF]	With through-hole on bearing cap							
[CR]	With through-hole on end cap							
[Y2]	With trunnion mounting on bearing cap							
[Y3]	With trunnion mounting on end cap							
[FT]	With threaded flange on the bearing cap							
[MB]	Direct mounting at both ends via thread							
[MF]	Direct mounting on the bearing cap via thread							
[MR]	Direct mounting on the end cap via thread							
	With accessories							
Mounting position	Any							

## Datasheet

<b>Operating and environmental conditions</b>		1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Piston ø									
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 ... +221							

1) Note operating range of proximity switches

<b>Forces [lb] at 80 psi</b>		1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Piston ø									
Theoretical force, pushing (piston rod retracted by spring force)1)		16	35.2	70.4	140.8	251.2	392.8	565.6	1005.6
Theoretical force, pulling (piston rod advanced by spring force)		12	28.8	55.2	116	212.8	357.6	517.6	942.4

1) Only applies to variant H (through, hollow piston rod) and variant T (through piston rod)

<b>Materials</b>	
Cover	Wrought aluminium alloy
Dynamic seals	NBR FPM
Piston rod	High-alloy stainless steel, hard chrome-plated
Cylinder barrel	Reinforced composite material
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant

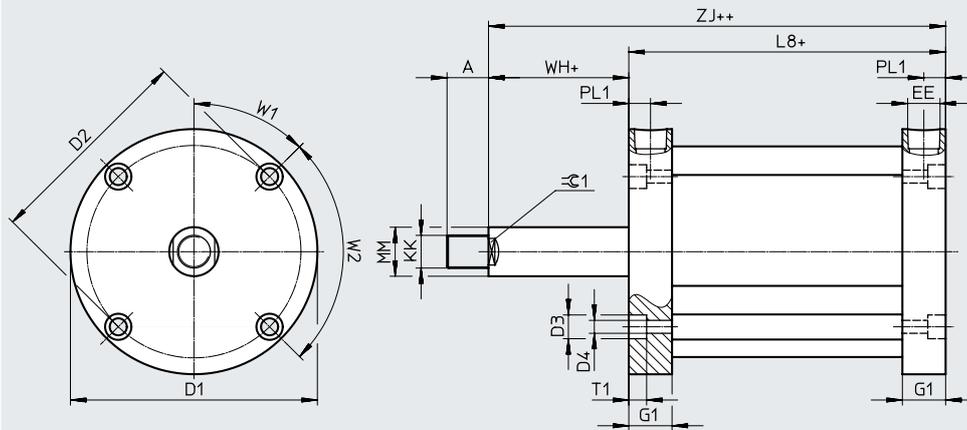
<b>Weight [lb]</b>		1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Piston ø									
Product weight		0.07 ... 0.08	0.11 ... 0.13	0.29 ... 0.35	0.58 ... 0.68	0.78 ... 0.92	1.34 ... 1.69	1.73 ... 2.30	3.34 ... 4.34

Datasheet

Dimensions – piston Ø 1/2

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK
1/8...4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	1.06	0.25	0.14	0.13	90°	–	0.13	1.19	0.22
1 1/4...2	1.62	0.25	0.14	0.13	90°	–	0.13	1.75	0.22
2 1/2; 3	2.14	0.25	0.14	0.13	90°	–	0.13	2.27	0.22
3 1/2; 4	3.21	0.25	0.14	0.13	90°	–	0.13	3.34	0.22

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

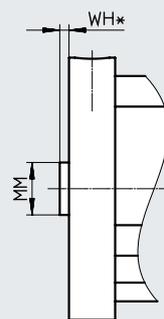
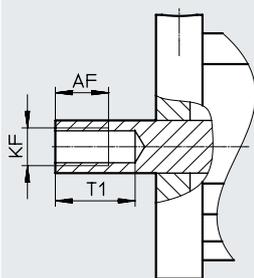
[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF	T1	MM ø	WH
	[F]	[F]	[F]	[N]	[N]
1/8	0.294	8-32 UNC	–	0.25	0.13
1/4	0.419	8-32 UNC	–	0.25	0.13
3/8...1/2	0.544	8-32 UNC	–	0.25	0.13
5/8...4	0.46	8-32 UNC	–	0.25	0.13

- Note

Piston Ø 1/2 only with coarse thread UNC  
 Piston Ø 3/4...4 with fine thread UNF or coarse thread UNC

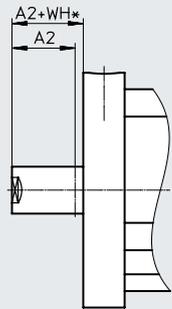
Datasheet

Dimensions – piston Ø 1/2

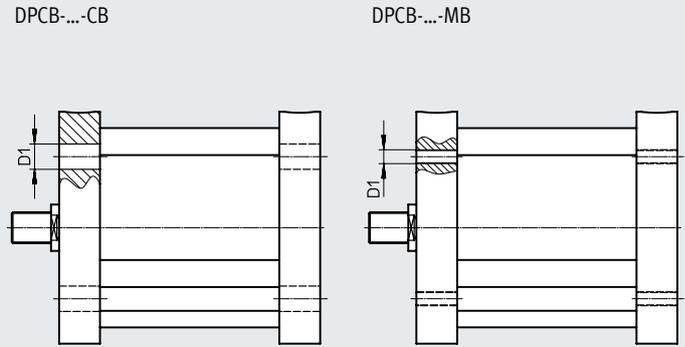
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- [P] Single-acting, pulling (piston rod advanced by spring force)
- [NE] Piston rod extension

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



+ = plus stroke length

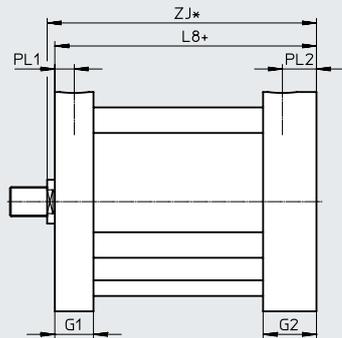


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.17	[MB] 4-40 UNC

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus 2x stroke length

+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.34	0.47	1.19	0.14	0.27	1.32
1 1/4...2	0.34	0.47	1.75	0.14	0.27	1.88
2 1/2; 3	0.34	0.47	2.27	0.14	0.27	2.4
3 1/2; 4	0.34	0.47	3.34	0.14	0.27	3.47

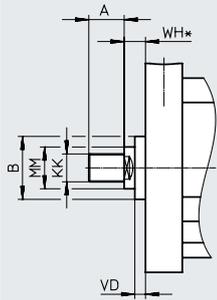
## Datasheet

**Dimensions – piston Ø 1/2**

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

[A4] Wiper made of NBR



+ = plus stroke length

Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.38	0.56	8-24 UNC	0.25	0.38	0.19

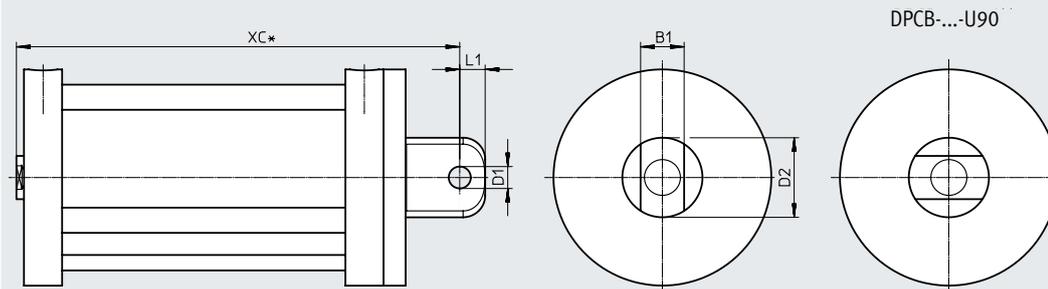
**Dimensions – piston Ø 1/2**

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

[U] With swivelling rod eye

[U90] With swivelling rod eye, rotated 90°



+ = plus 2x stroke length

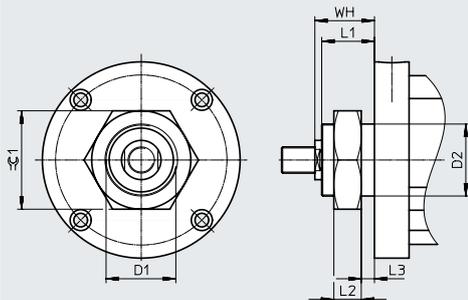
Stroke [in]	B1	D1 Ø	D2 Ø	L1	XC
1/8...1	0.38	0.19	0.63	0.25	1.94
1 1/4...2	0.38	0.19	0.63	0.25	2.5
2 1/2...3	0.38	0.19	0.63	0.25	3.02
3 1/2...4	0.38	0.19	0.63	0.25	4.09

**Dimensions – piston Ø 1/2**

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

[FT] Flange thread, front



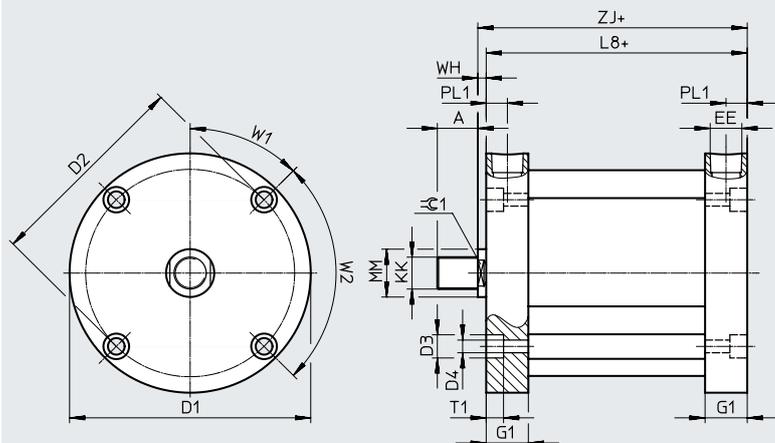
Stroke [in]	D1	D2 Ø	L1	L2	L3	WH	⊕ 1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston Ø 1/2

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



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK
1/8...1	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC
1 1/4...2	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC
2 1/2; 3	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC
3 1/2; 4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	0.81	0.25	0.14	0.3	90°	–	0.13	0.94	0.22
1 1/4...2	1.38	0.25	0.14	0.3	90°	–	0.13	1.51	0.22
2 1/2; 3	1.96	0.25	0.14	0.3	90°	–	0.13	2.09	0.22
3 1/2; 4	2.52	0.25	0.14	0.3	90°	–	0.13	2.65	0.22

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

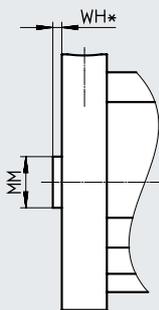
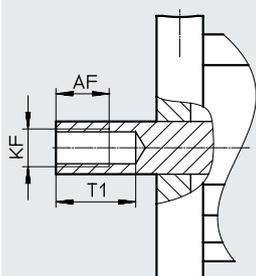
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF	T1	MM ø	WH
	[F]	[F]	[F]	[N]	[N]
1/8	0.294	8-32 UNC	–	0.25	0.13
1/4	0.419	8-32 UNC	–	0.25	0.13
3/8	0.544	8-32 UNC	–	0.25	0.13
1/2	0.544	8-32 UNC	–	0.25	0.13
5/8...4	0.46	8-32 UNC	–	0.25	0.13

Datasheet

Dimensions – piston Ø 1/2

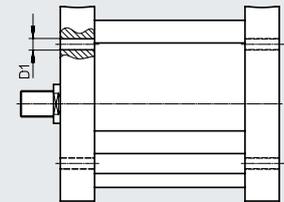
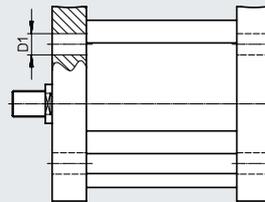
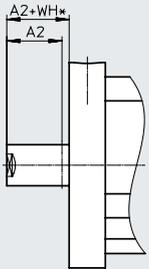
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB

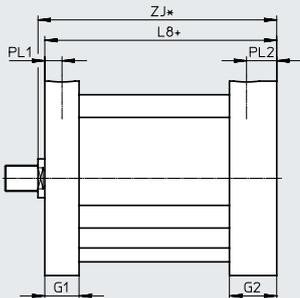


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.17	[MB] 4-40 UNC

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



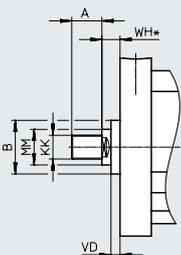
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.34	0.13	0.94	0.14	0.27	1.07
1 1/4...2	0.34	0.13	1.51	0.14	0.27	1.64
2 1/2; 3	0.34	0.13	2.09	0.14	0.27	2.22
3 1/2; 4	0.34	0.13	2.65	0.14	0.27	2.78

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



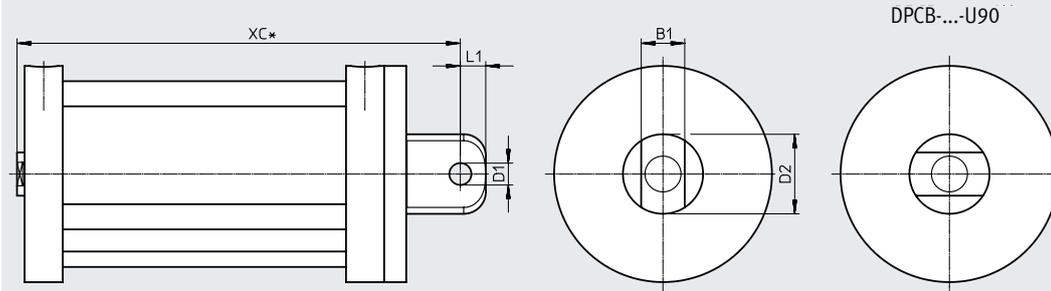
Stroke [in]	A	B	KK	MM	WH	VD
1/8...4	0.38	0.56	8-24 UNC	∅ 0.25	0.38	0.19

Datasheet

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



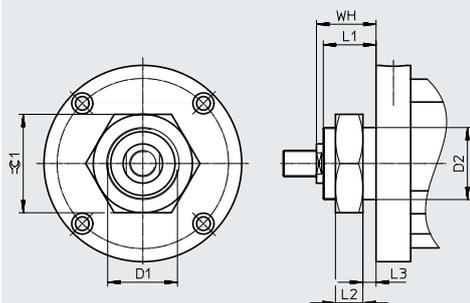
\* = plus stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.38	0.19	0.63	0.25	1.69
1 1/4...2	0.38	0.19	0.63	0.25	2.26
2 1/2...3	0.38	0.19	0.63	0.25	2.84
3 1/2...4	0.38	0.19	0.63	0.25	3.4

Dimensions – piston Ø 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



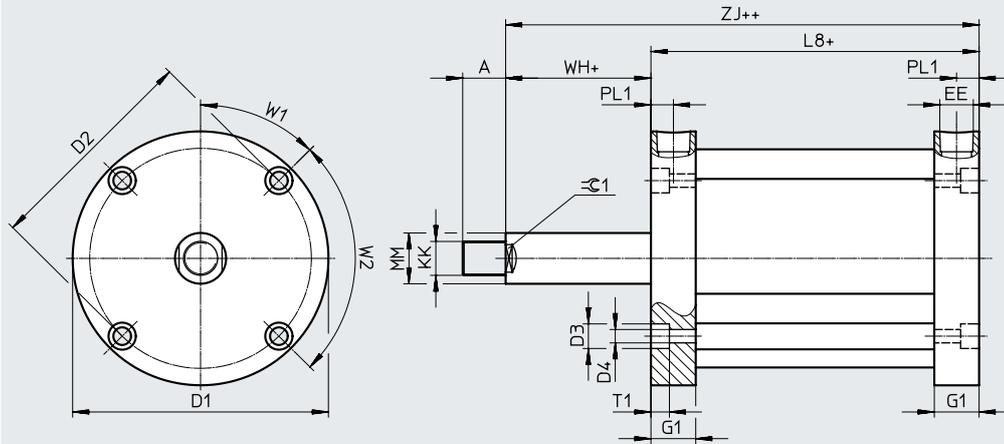
Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.38	1.49	0.88	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1 1/4...2	0.38	1.49	0.88	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
2 1/2; 3	0.38	1.49	0.88	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
3 1/2; 4	0.38	1.49	0.88	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	1.06	0.31	0.14	0.15	43°	90°	0.13	1.19	0.25
1 1/4...2	1.62	0.31	0.14	0.15	43°	90°	0.13	1.75	0.25
2 1/2; 3	2.19	0.31	0.14	0.15	43°	90°	0.13	2.32	0.25
3 1/2; 4	2.75	0.31	0.14	0.15	43°	90°	0.13	2.88	0.25

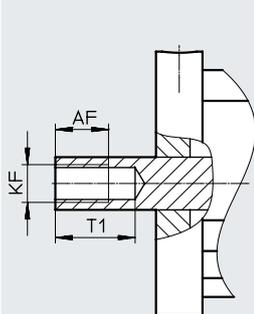
Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

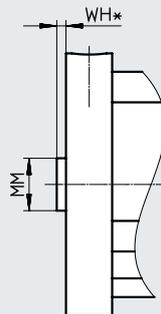
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.298	10-24 UNC	10-32 UNF	–	0.31	0.13
1/4	0.423	10-24 UNC	10-32 UNF	–	0.31	0.13
3/8	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
1/2	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
5/8...4	0.46	10-24 UNC	10-32 UNF	–	0.31	0.13

Datasheet

Dimensions – piston  $\varnothing$  3/4

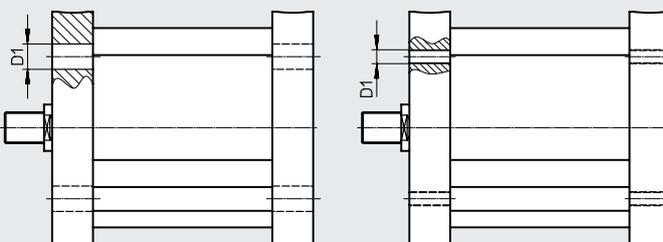
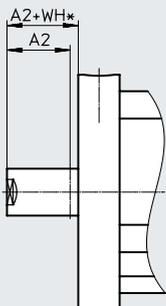
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



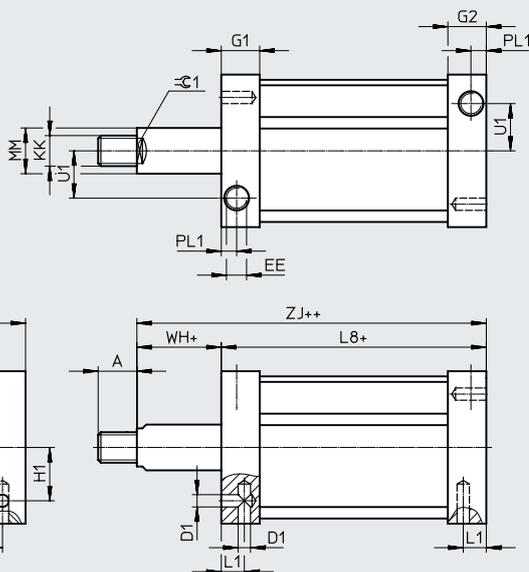
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		$\varnothing$	$\varnothing$
1/8...4	0.001	6	0.13	[CB] 0.23	[MB] 6-32 UNC

Dimensions – piston  $\varnothing$  3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	B1	D1 $\varnothing$	E	EE	G1	G2	H1	KK	
1/8...4	0.38	0.38	6-32 UNC	1.25	10-32 UNF	0.42	0.42	0.38	10-24 UNC	10-32 UNF

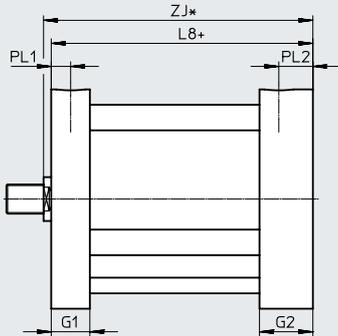
Stroke [in]	L1	L8	MM $\varnothing$	PL1	U1)	WH	ZJ	$\approx \varnothing$ 1
1/8...1	0.28	1.25	0.31	0.14	0.3	0.13	1.38	0.25
1 1/4...2	0.28	1.81	0.31	0.14	0.3	0.13	1.94	0.25
2 1/2...3	0.28	2.38	0.31	0.14	0.3	0.13	2.51	0.25
3 1/2...4	0.28	2.94	0.31	0.14	0.3	0.13	3.07	0.25

Datasheet

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

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



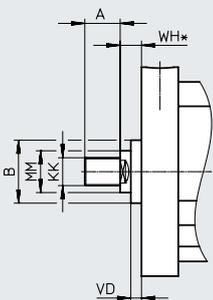
- + = plus 2x stroke length
- + = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.34	0.47	1.19	0.14	0.27	1.32
1 1/4...2	0.34	0.47	1.75	0.14	0.27	1.88
2 1/2; 3	0.34	0.47	2.32	0.14	0.27	2.45
3 1/2; 4	0.34	0.47	2.88	0.14	0.27	3.01

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [A4] Wiper made of NBR



- + = plus stroke length

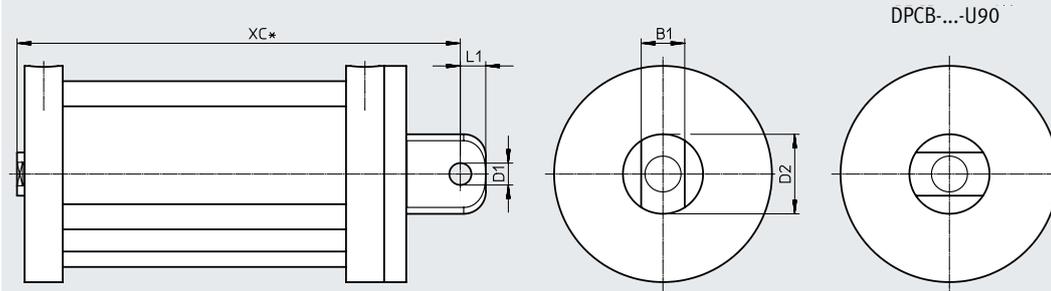
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.38	0.69	10-24 UNC 10-32 UNF	0.31	0.38	0.19

Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



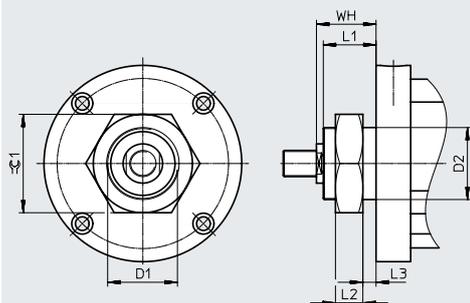
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.38	0.19	0.75	0.25	1.94
1 1/4...2	0.38	0.19	0.75	0.25	2.5
2 1/2...3	0.38	0.19	0.75	0.25	3.07
3 1/2...4	0.38	0.19	0.75	0.25	3.63

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⊕ 1
1/8...4	5/8-18 UNF-2A	0.62	0.38	0.25	0.6	0.51	0.75

Datasheet

Dimensions – piston Ø 3/4

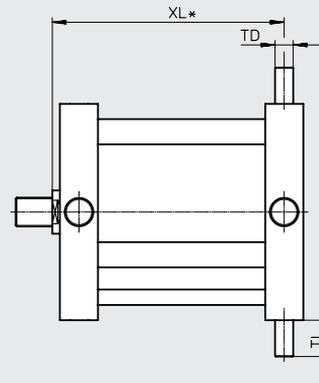
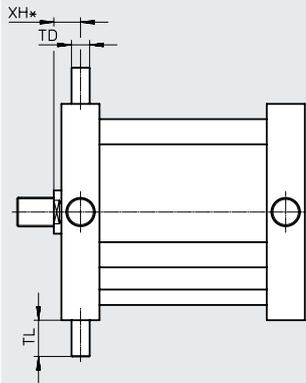
Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

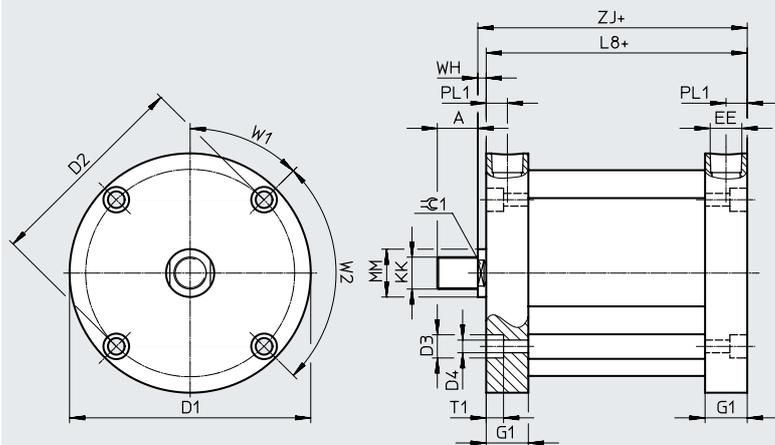
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.125	0.31	0.3	1.02
1 1/4...2	0.125	0.31	0.3	1.58
2 1/2...3	0.125	0.31	0.3	2.15
3 1/2...4	0.125	0.31	0.3	2.71

Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1 1/4...2	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
2 1/2; 3	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
3 1/2; 4	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	0.81	0.31	0.14	0.15	43°	90°	0.13	0.94	0.25
1 1/4...2	1.38	0.31	0.14	0.15	43°	90°	0.13	1.51	0.25
2 1/2; 3	1.94	0.31	0.14	0.15	43°	90°	0.13	2.07	0.25
3 1/2; 4	2.5	0.31	0.14	0.15	43°	90°	0.13	2.63	0.25

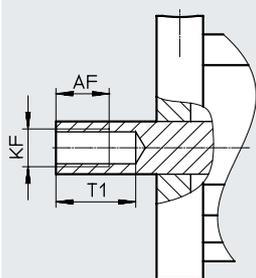
Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

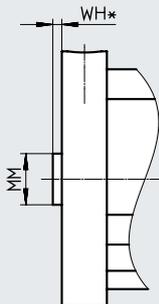
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.298	10-24 UNC	10-32 UNF	–	0.31	0.13
1/4	0.423	10-24 UNC	10-32 UNF	–	0.31	0.13
3/8	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
1/2	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
5/8...4	0.46	10-24 UNC	10-32 UNF	–	0.31	0.13

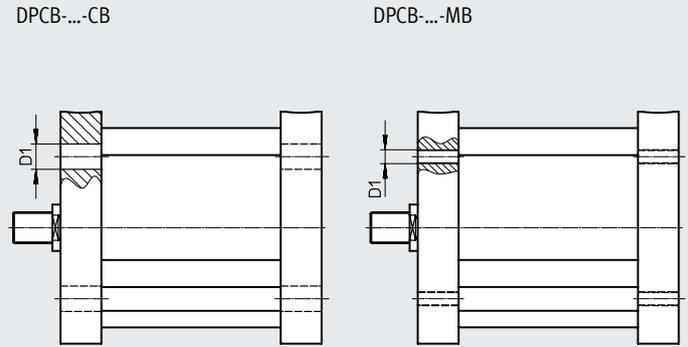
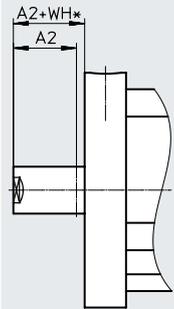
Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



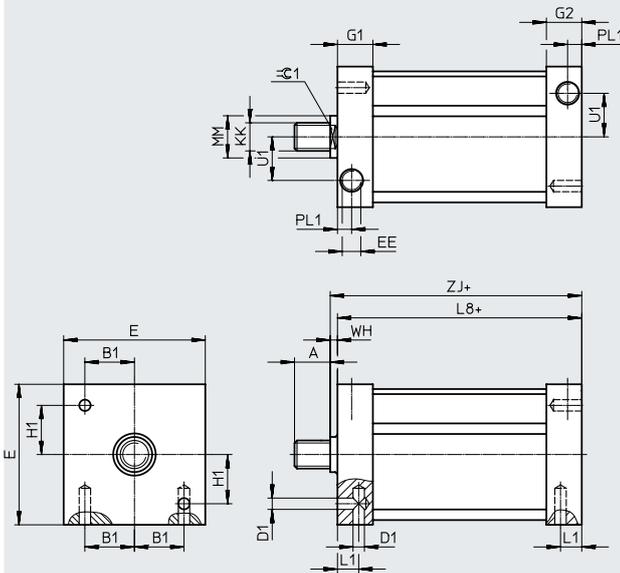
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.23	[MB] 6-32 UNC

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK	
1/8...4	0.38	0.38	6-32 UNC	1.25	10-32 UNF	0.42	0.42	0.38	10-24 UNC	10-32 UNF

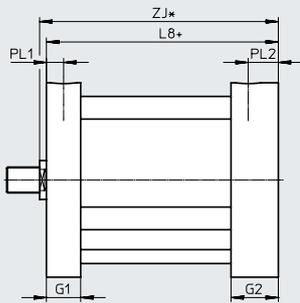
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...1	0.28	1	0.31	0.14	0.3	0.13	1.13	0.25
1 1/4...2	0.28	1.56	0.31	0.14	0.3	0.13	1.69	0.25
2 1/2...3	0.28	2.13	0.31	0.14	0.3	0.13	2.26	0.25
3 1/2...4	0.28	2.69	0.31	0.14	0.3	0.13	2.82	0.25

## Datasheet

### Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

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



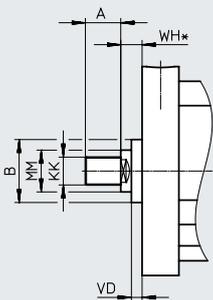
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.34	0.13	0.94	0.14	0.27	1.07
1 1/4...2	0.34	0.13	1.51	0.14	0.27	1.64
2 1/2; 3	0.34	0.13	2.07	0.14	0.27	2.2
3 1/2; 4	0.34	0.13	2.63	0.14	0.27	2.76

### Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

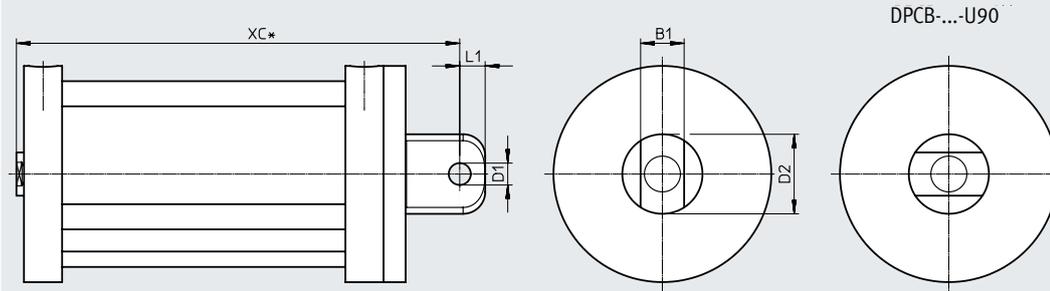
Stroke [in]	A	B	KK	MM ∅	WH	VD
1/8...4	0.38	0.69	10-24 UNC	10-32 UNF	0.31	0.19

Datasheet

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



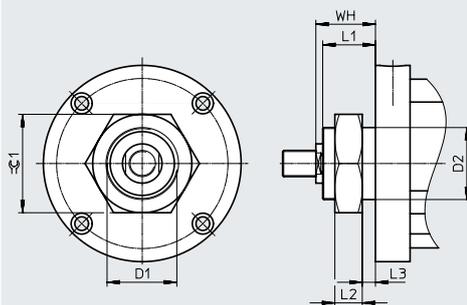
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.38	0.19	0.75	0.25	1.69
1 1/4...2	0.38	0.19	0.75	0.25	2.26
2 1/2...3	0.38	0.19	0.75	0.25	2.82
3 1/2...4	0.38	0.19	0.75	0.25	3.38

**Dimensions – piston Ø 3/4**

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	5/8-18 UNF-2A	0.62	0.38	0.25	0.6	0.51	0.75

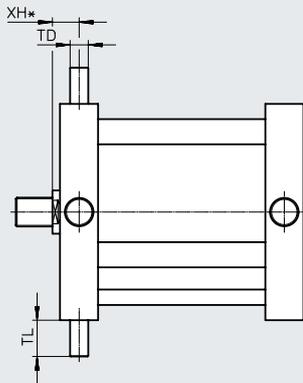
Datasheet

Dimensions – piston Ø 3/4

Download CAD data → [www.festo.com](http://www.festo.com)

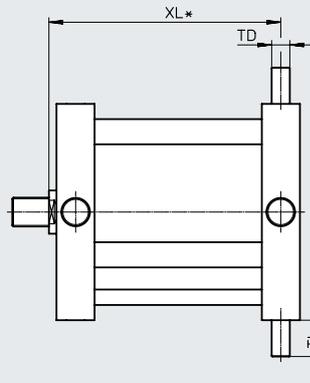
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

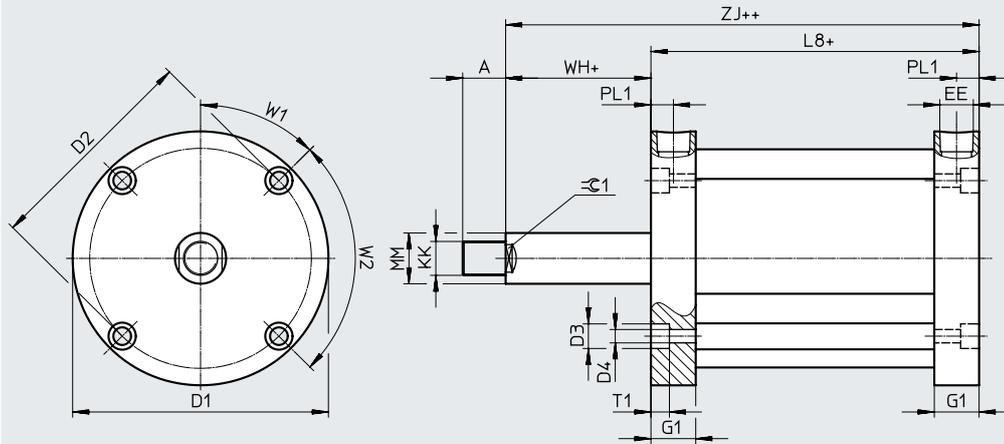
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.125	0.31	0.3	0.77
1 1/4...2	0.125	0.31	0.3	1.34
2 1/2...3	0.125	0.31	0.3	1.9
3 1/2...4	0.125	0.31	0.3	2.46

Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1 1/4...2	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
2 1/2; 3	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
3 1/2; 4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	1.38	0.5	0.25	0.15	45°	90°	0.13	1.51	0.44
1 1/4...2	2	0.5	0.25	0.15	45°	90°	0.13	2.13	0.44
2 1/2; 3	2.63	0.5	0.25	0.15	45°	90°	0.13	2.76	0.44
3 1/2; 4	3.25	0.5	0.25	0.15	45°	90°	0.13	3.38	0.44

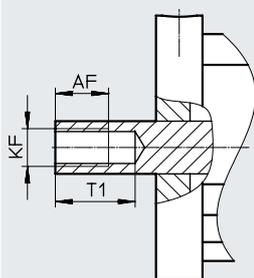
Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

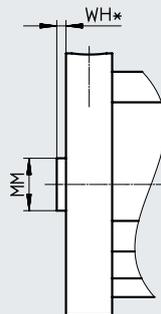
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.427	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/4	0.552	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
3/8	0.677	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/2	0.802	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
5/8...4	0.7	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13

Datasheet

Dimensions – piston Ø 1 1/16

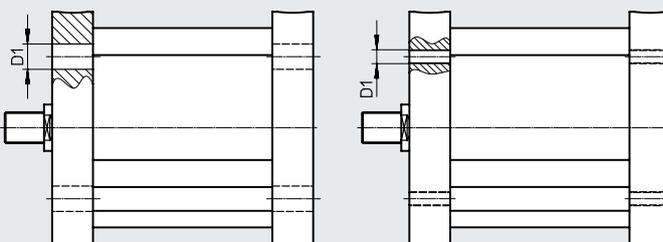
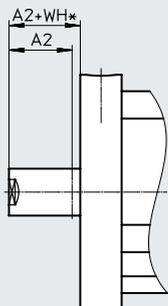
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



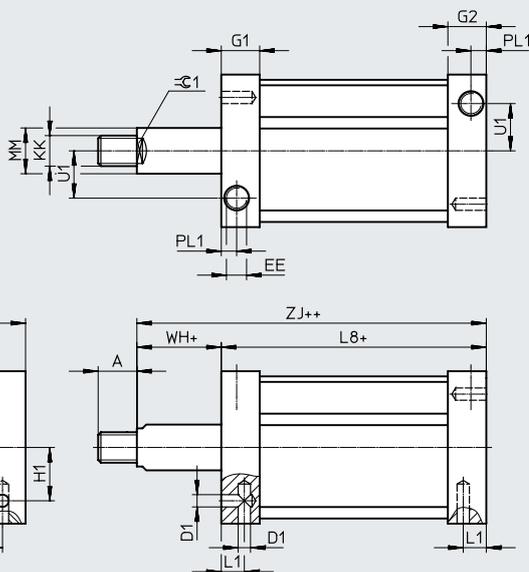
+ = plus stroke length

Stroke [in]	A2		WH	D1 ø	D1 ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.25	6-32 UNC

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	B1	D1 ø	E	EE	G1	G2	H1	KK	
1/8...4	0.5	0.5	8-32 UNC	1.5	1/8 NPT	0.58	0.5	0.5	5/16-18 UNC	5/16-24 UNF

Stroke [in]	L1	L8	MM ø	PL1	U1)	WH	ZJ	≈C1
1/8...1	0.38	1.75	0.5	0.25	0.5	0.13	1.88	0.44
1 1/4...2	0.38	2.38	0.5	0.25	0.5	0.13	2.51	0.44
2 1/2...3	0.38	3	0.5	0.25	0.5	0.13	3.13	0.44
3 1/2...4	0.38	3.63	0.5	0.25	0.5	0.13	3.76	0.44

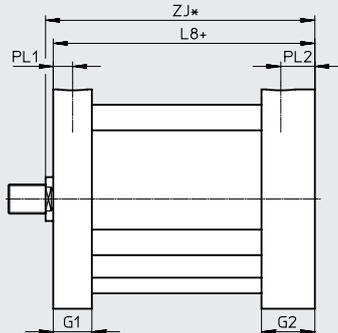
## Datasheet

## Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

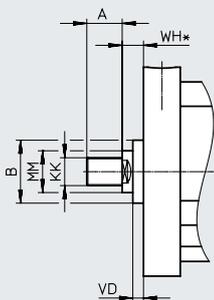
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.5	0.69	1.57	0.25	0.44	1.7
1 1/4...2	0.5	0.69	2.19	0.25	0.44	2.32
2 1/2; 3	0.5	0.69	2.82	0.25	0.44	2.95
3 1/2; 4	0.5	0.69	3.44	0.25	0.44	3.57

## Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

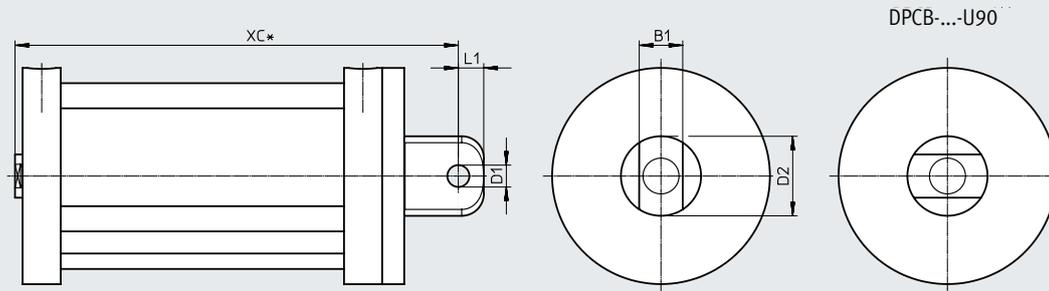
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	0.88	5/16-18 UNC 5/16-24 UNF	0.5	0.38	0.19

Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



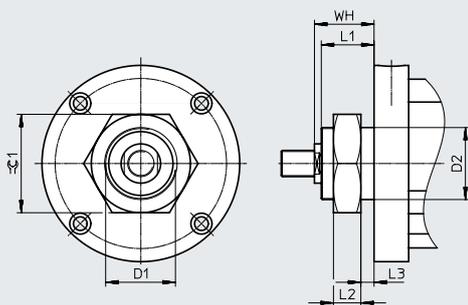
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.38	0.19	0.75	0.25	2.32
1 1/4...2	0.38	0.19	0.75	0.25	2.94
2 1/2...3	0.38	0.19	0.75	0.25	3.57
3 1/2...4	0.38	0.19	0.75	0.25	4.19

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⊕ 1
1/8...4	1-14 UNF-2A	1	0.75	0.55	0.13	0.88	1.5

Datasheet

Dimensions – piston  $\varnothing$  1 1/16

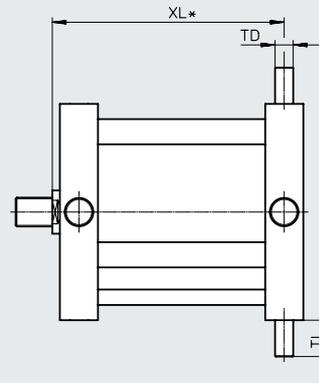
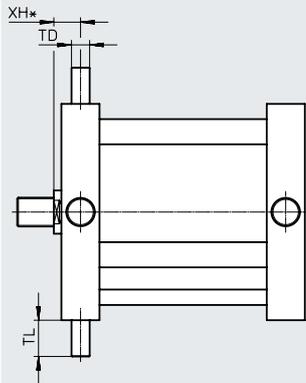
Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

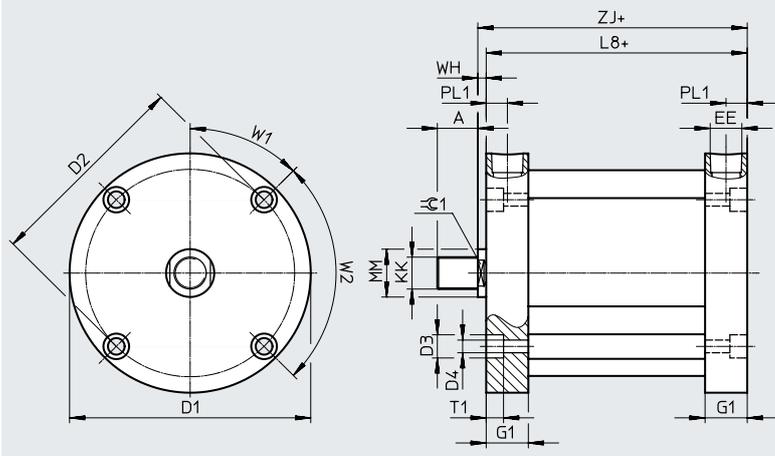
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	1.26
1 1/4...2	0.25	0.5	0.38	1.88
2 1/2...3	0.25	0.5	0.38	2.51
3 1/2...4	0.25	0.5	0.38	3.13

Datasheet

Dimensions – piston Ø 1 1/16

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1 1/4...2	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
2 1/2; 3	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
3 1/2; 4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8...1	0.88	0.5	0.25	0.15	45°	90°	0.13	1.01	0.44
1 1/4...2	1.5	0.5	0.25	0.15	45°	90°	0.13	1.63	0.44
2 1/2; 3	2.13	0.5	0.25	0.15	45°	90°	0.13	2.26	0.44
3 1/2; 4	2.75	0.5	0.25	0.15	45°	90°	0.13	2.88	0.44

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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

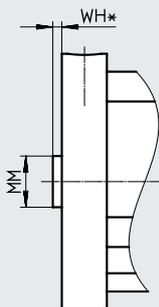
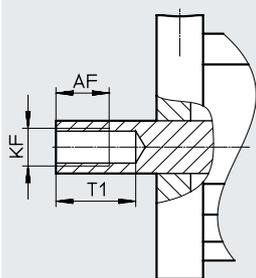
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.427	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/4	0.552	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
3/8	0.677	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/2	0.802	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
5/8...4	0.7	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13

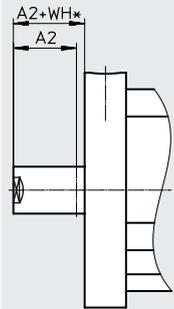
Datasheet

Dimensions – piston Ø 1 1/16

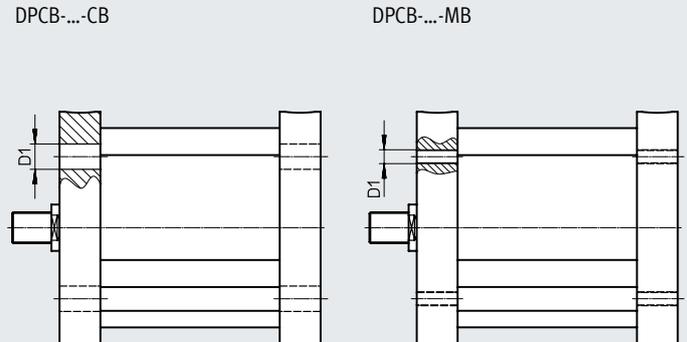
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



+ = plus stroke length

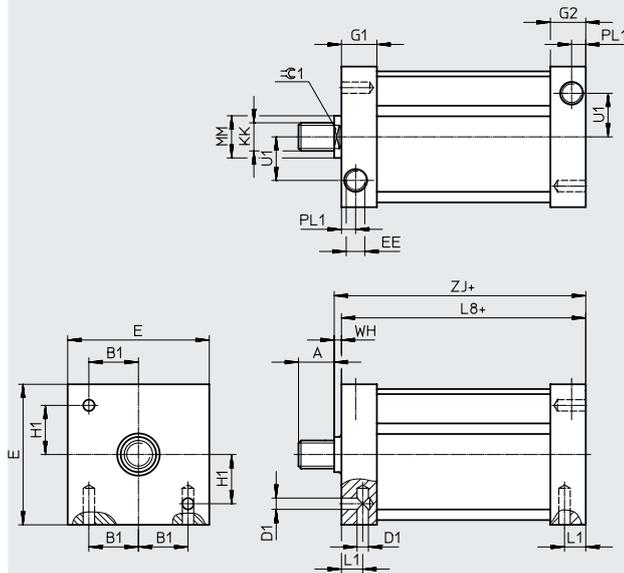


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB]	[MB]
				0.25	6-32 UNC

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK	
1/8...4	0.5	0.5	8-32 UNC	1.5	1/8 NPT	0.58	0.5	0.5	5/16-18 UNC	5/16-24 UNF

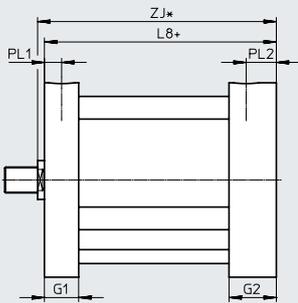
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...1	0.38	1.25	0.5	0.25	0.5	0.13	1.38	0.44
1 1/4...2	0.38	1.88	0.5	0.25	0.5	0.13	2.01	0.44
2 1/2...3	0.38	2.5	0.5	0.25	0.5	0.13	2.63	0.44
3 1/2...4	0.38	3.13	0.5	0.25	0.5	0.13	3.26	0.44

Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

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



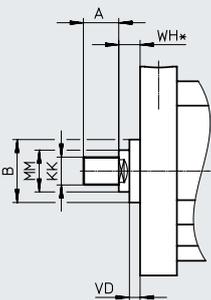
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.5	0.19	0.94	0.25	0.44	1.2
1 1/4...2	0.5	0.19	1.51	0.25	0.44	1.82
2 1/2; 3	0.5	0.19	2.07	0.25	0.44	2.45
3 1/2; 4	0.5	0.19	2.63	0.25	0.44	3.07

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

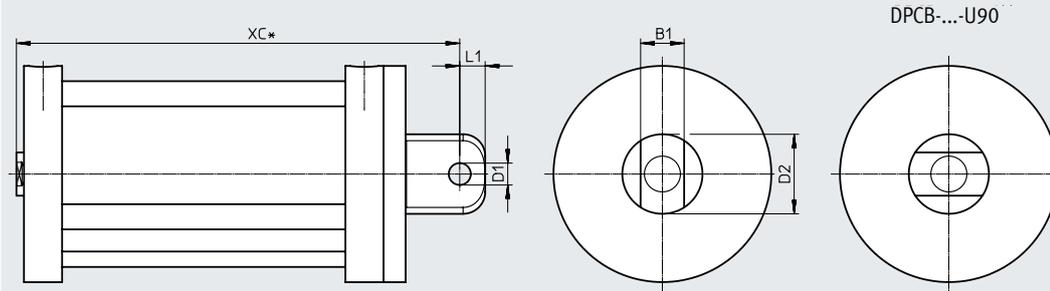
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	0.88	5/16-18 UNC 5/16-24 UNF	0.5	0.38	0.19

Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



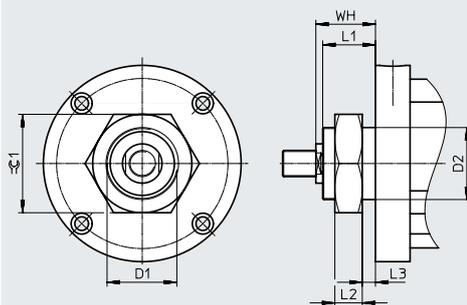
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.38	0.19	0.75	0.25	1.82
1 1/4...2	0.38	0.19	0.75	0.25	2.44
2 1/2...3	0.38	0.19	0.75	0.25	3.07
3 1/2...4	0.38	0.19	0.75	0.25	3.69

Dimensions – piston Ø 1 1/16

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1-14 UNF-2A	1	0.75	0.55	0.13	0.88	1.5

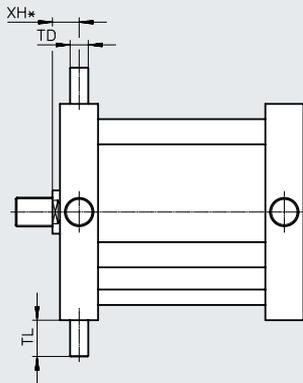
Datasheet

Dimensions – piston Ø 1 1/16

Download CAD data → [www.festo.com](http://www.festo.com)

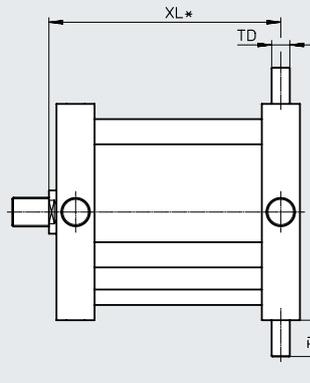
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

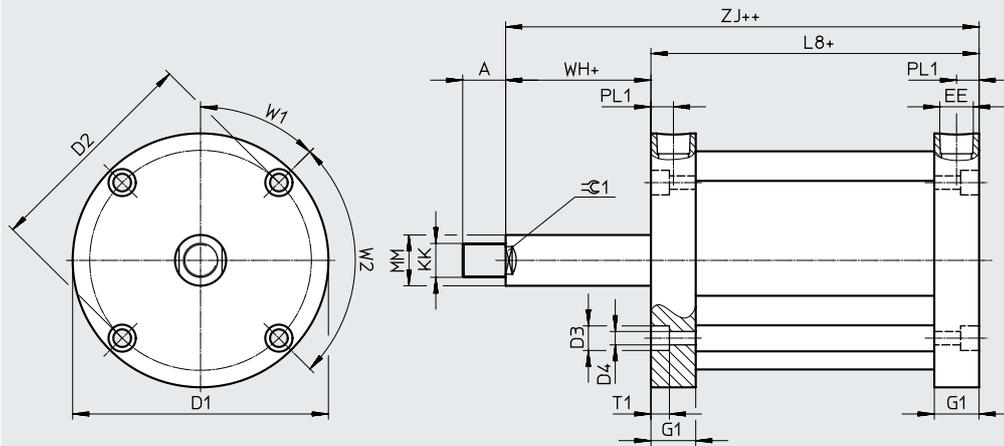
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	0.76
1 1/4...2	0.25	0.5	0.38	1.38
2 1/2...3	0.25	0.5	0.38	2.01
3 1/2...4	0.25	0.5	0.38	2.63

Datasheet

Dimensions – piston Ø 1 1/2

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
1 1/4...2	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
2 1/2; 3	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
3 1/2; 4	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	1.38	0.63	0.25	0.22	45°	90°	0.13	1.51	0.5
1 1/4...2	2	0.63	0.25	0.22	45°	90°	0.13	2.13	0.5
2 1/2; 3	2.63	0.63	0.25	0.22	45°	90°	0.13	2.76	0.5
3 1/2; 4	3.25	0.63	0.25	0.22	45°	90°	0.13	3.38	0.5

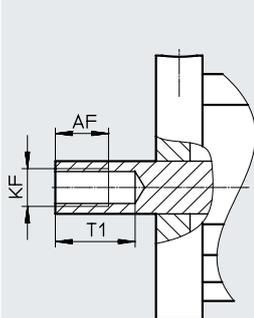
Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

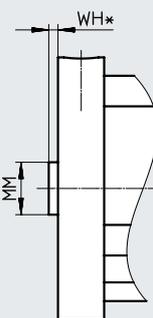
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8...4	0.75	3/8-16 UNC	3/8-24 UNF	1.125	0.63	0.13

Datasheet

Dimensions – piston Ø 1 1/2

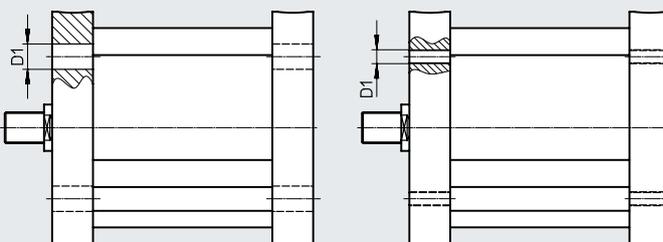
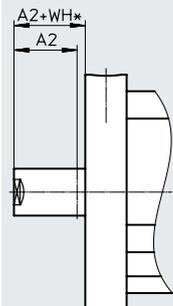
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



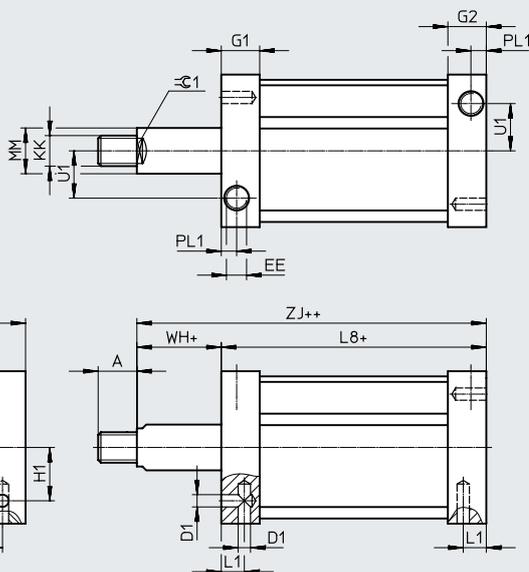
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.34	[MB] 10-24 UNC

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.5	0.69	10-24 UNC	2	1/8 NPT	0.58	0.5	0.69	3/8-16 UNC 3/8-24 UNF

Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅C 1
1/8...1	0.31	1.75	0.63	0.25	0.73	0.13	1.88	0.5
1 1/4...2	0.31	2.38	0.63	0.25	0.73	0.13	2.51	0.5
2 1/2...3	0.31	3	0.63	0.25	0.73	0.13	3.13	0.5
3 1/2...4	0.31	3.63	0.63	0.25	0.73	0.13	3.76	0.5

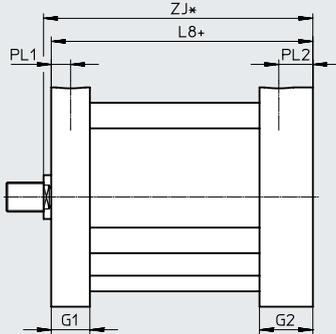
## Datasheet

## Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

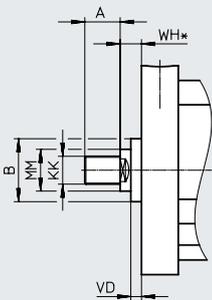
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.5	0.69	1.57	0.25	0.44	1.7
1 1/4...2	0.5	0.69	2.19	0.25	0.44	2.32
2 1/2; 3	0.5	0.69	2.82	0.25	0.44	2.95
3 1/2; 4	0.5	0.69	3.44	0.25	0.44	3.57

## Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

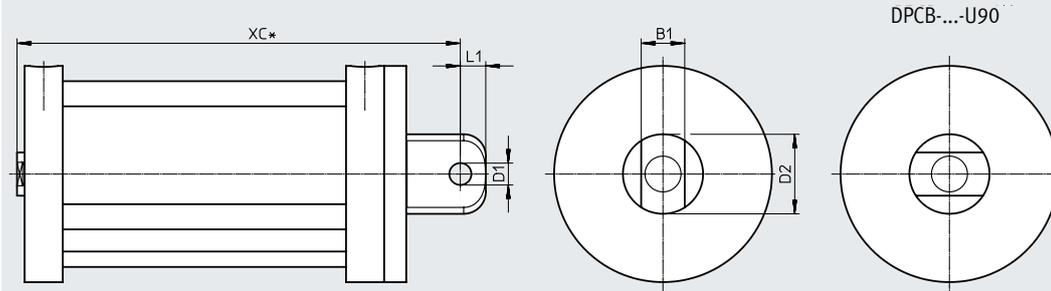
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	1	3/8-16 UNC 3/8-24 UNF	0.63	0.38	0.19

Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



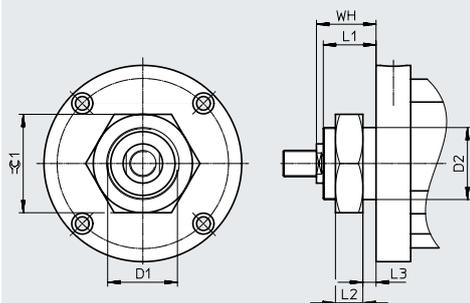
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	2.7
1 1/4...2	0.75	0.38	1.38	0.44	3.32
2 1/2...3	0.75	0.38	1.38	0.44	3.95
3 1/2...4	0.75	0.38	1.38	0.44	4.57

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 1/4-12 UNF-2A	1.25	0.75	0.52	0.13	0.88	1.88

Datasheet

Dimensions – piston Ø 1 1/2

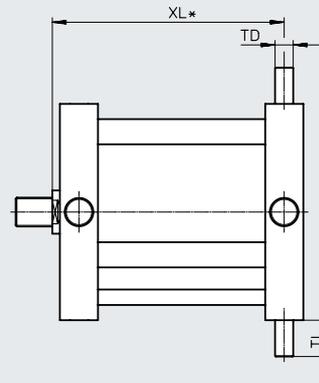
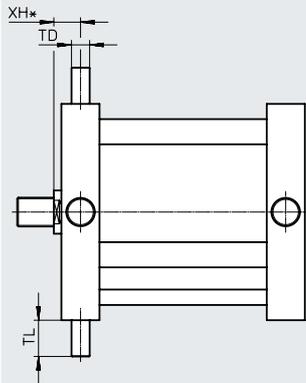
Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

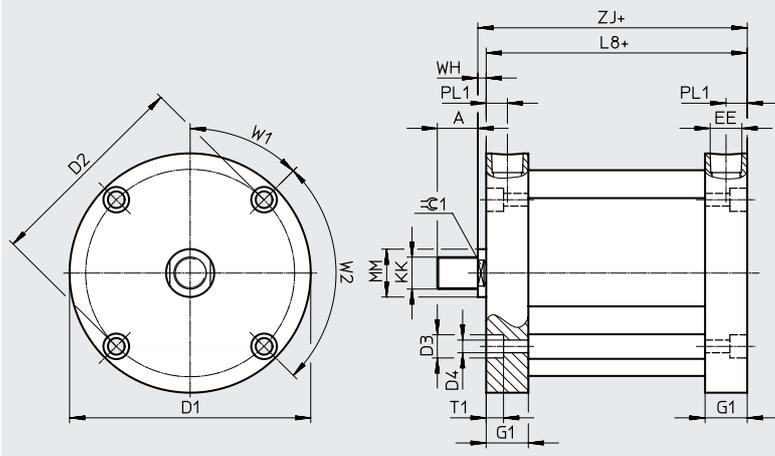
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	1.26
1 1/4...2	0.25	0.5	0.38	1.88
2 1/2...3	0.25	0.5	0.38	2.51
3 1/2...4	0.25	0.5	0.38	3.13

Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
1 1/4...2	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
2 1/2; 3	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF
3 1/2; 4	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	0.88	0.63	0.25	0.22	45°	90°	0.13	1.01	0.5
1 1/4...2	1.5	0.63	0.25	0.22	45°	90°	0.13	1.63	0.5
2 1/2; 3	2.13	0.63	0.25	0.22	45°	90°	0.13	2.26	0.5
3 1/2; 4	2.75	0.63	0.25	0.22	45°	90°	0.13	2.88	0.5

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

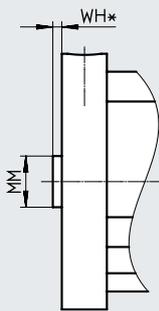
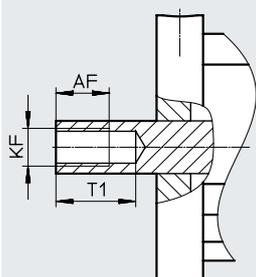
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8...4	0.75	3/8-16 UNC	3/8-24 UNF	1.125	0.63	0.13

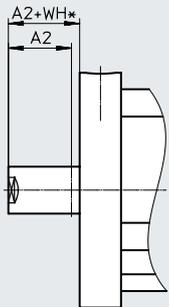
Datasheet

Dimensions – piston Ø 1 1/2

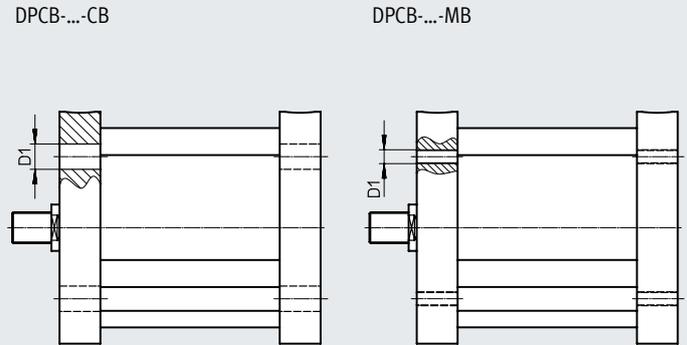
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



+ = plus stroke length

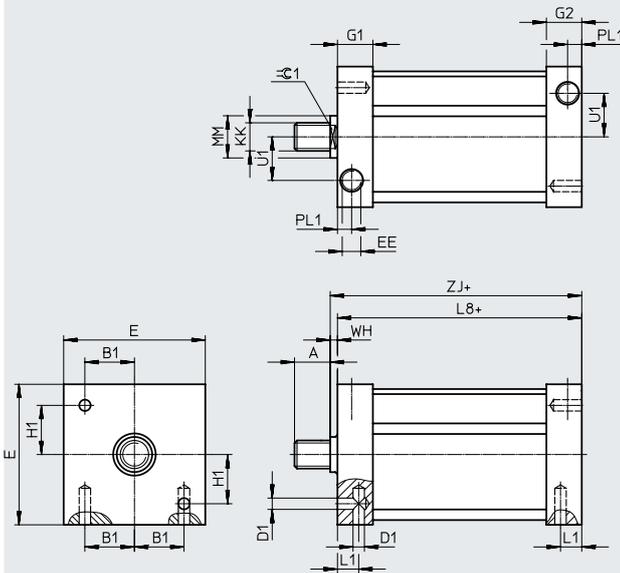


Stroke [in]	A2		WH	D1	
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.34	[MB] 10-24 UNC

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK	
1/8...4	0.5	0.69	10-24 UNC	2	1/8 NPT	0.58	0.5	0.69	3/8-16 UNC	3/8-24 UNF

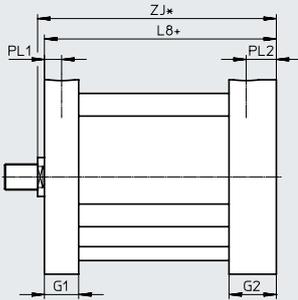
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	Z)	∅ 1
1/8...1	0.31	1.25	0.63	0.25	0.73	0.13	1.38	0.5
1 1/4...2	0.31	1.88	0.63	0.25	0.73	0.13	2.01	0.5
2 1/2...3	0.31	2.5	0.63	0.25	0.73	0.13	2.63	0.5
3 1/2...4	0.31	3.13	0.63	0.25	0.73	0.13	3.16	0.5

## Datasheet

### Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



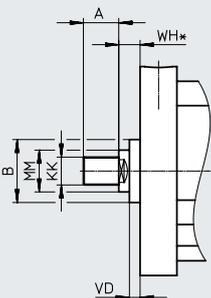
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.5	0.19	0.94	0.25	0.44	1.2
1 1/4...2	0.5	0.19	1.51	0.25	0.44	1.82
2 1/2; 3	0.5	0.19	2.07	0.25	0.44	2.45
3 1/2; 4	0.5	0.19	2.63	0.25	0.44	3.07

### Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

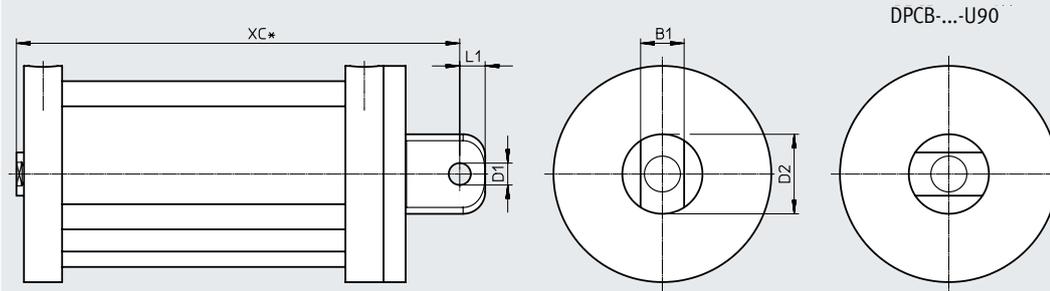
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.5	1	3/8-16 UNC 3/8-24 UNF	0.63	0.38	0.19

Datasheet

**Dimensions – piston Ø 1 1/2**

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



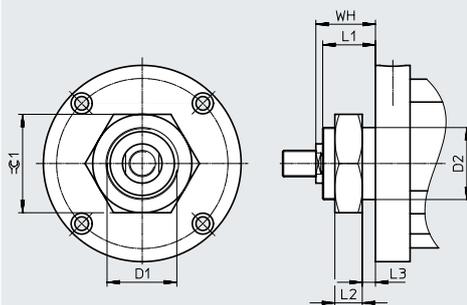
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	2.2
1 1/4...2	0.75	0.38	1.38	0.44	2.82
2 1/2...3	0.75	0.38	1.38	0.44	3.45
3 1/2...4	0.75	0.38	1.38	0.44	4.07

**Dimensions – piston Ø 1 1/2**

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 1/4-12 UNF-2A	1.25	0.75	0.52	0.13	0.88	1.88

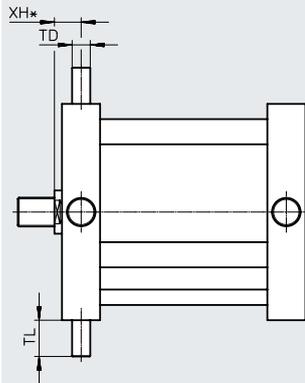
Datasheet

Dimensions – piston Ø 1 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

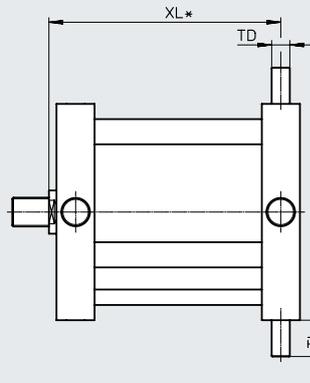
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

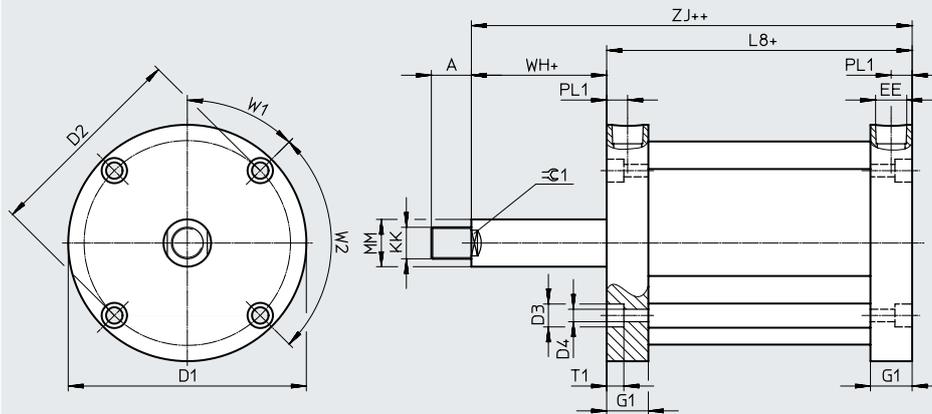
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	0.76
1 1/4...2	0.25	0.5	0.38	1.38
2 1/2...3	0.25	0.5	0.38	2.01
3 1/2...4	0.25	0.5	0.38	2.63

Datasheet

Dimensions – piston Ø 2

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



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
1 1/4...2	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
2 1/2; 3	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
3 1/2; 4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	1.44	0.75	0.25	0.22	45°	90°	0.13	1.57	0.63
1 1/4...2	2.06	0.75	0.25	0.22	45°	90°	0.13	2.19	0.63
2 1/2; 3	2.69	0.75	0.25	0.22	45°	90°	0.13	2.82	0.63
3 1/2; 4	-	0.75	0.25	0.22	45°	90°	0.13	-	0.63

Dimensions – piston Ø 2

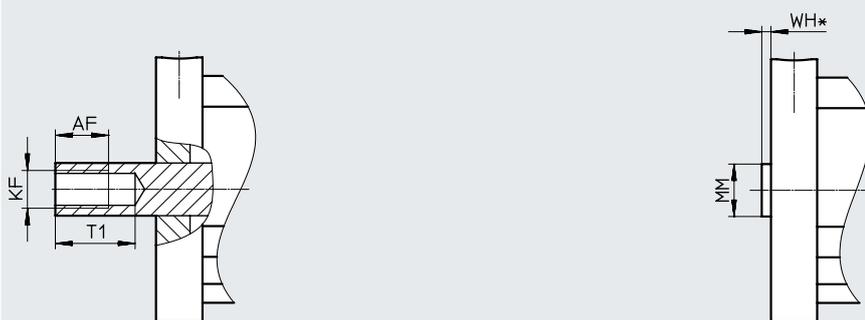
Download CAD data → [www.festo.com](http://www.festo.com)

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

[P] Single-acting, pulling (piston rod advanced by spring force)  
[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.3	1/2-13 UNC	1/2-20 UNF	0.45	0.75	0.13
1/4	0.4	1/2-13 UNC	1/2-20 UNF	0.562	0.75	0.13
3/8	0.53	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
3/4	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
7/8...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

Datasheet

Dimensions – piston Ø 2

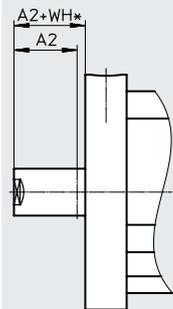
Download CAD data → [www.festo.com](http://www.festo.com)

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

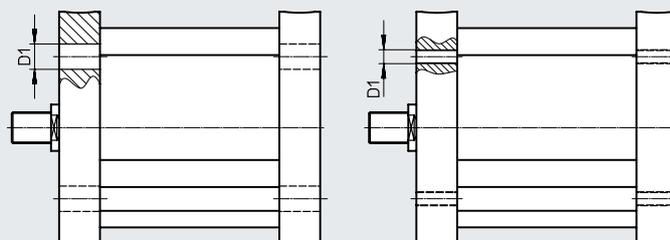
- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



+ = plus stroke length

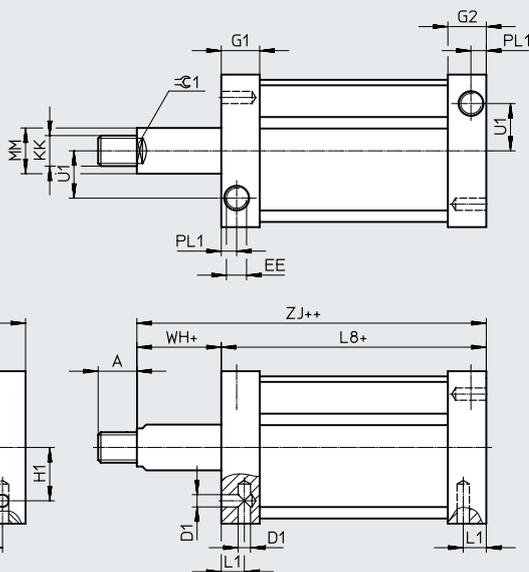


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅ [CB]	∅ [MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.63	0.88	1/4-20 UNC	2.5	1/8 NPT	0.63	0.63	0.88	1/2-13 UNC 1/2-20 UNF

Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	±0.1
1/8...1	0.38	1.81	0.75	0.25	0.77	0.13	1.94	0.63
1 1/4...2	0.38	2.44	0.75	0.25	0.77	0.13	2.57	0.63
2 1/2...3	0.38	3.06	0.75	0.25	0.77	0.13	3.16	0.63
3 1/2...4	0.38	-	0.75	0.25	0.77	0.13	-	0.63

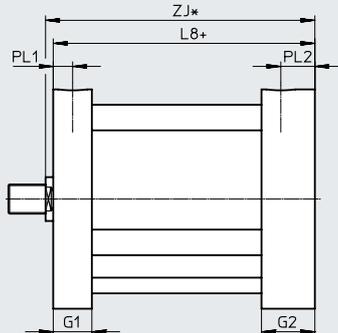
## Datasheet

## Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

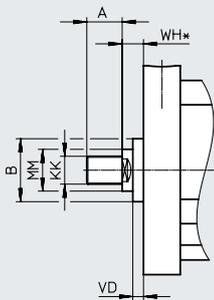
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.53	0.72	1.63	0.25	0.44	1.76
1 1/4...2	0.53	0.72	2.25	0.25	0.44	2.38
2 1/2; 3	0.53	0.72	2.88	0.25	0.44	3.01
3 1/2; 4	0.53	0.72	–	0.25	0.44	–

## Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

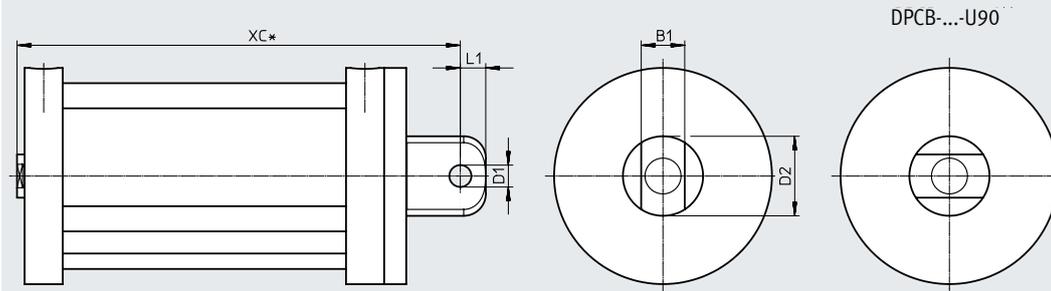
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC	1/2-20 UNF	0.38	0.19

Datasheet

**Dimensions – piston Ø 2**

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- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



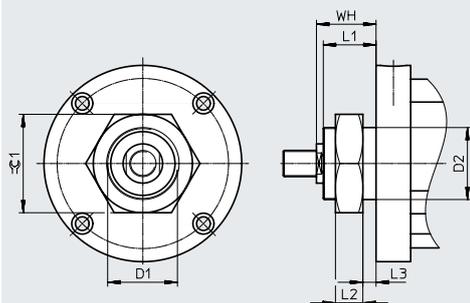
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	2.82
1 1/4...2	0.75	0.38	1.38	0.44	3.44
2 1/2...3	0.75	0.38	1.38	0.44	4.07
3 1/2...4	0.75	0.38	1.38	0.44	–

**Dimensions – piston Ø 2**

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 3/8-12 UNF-2A	1.38	0.88	0.52	0.19	1.01	1.88

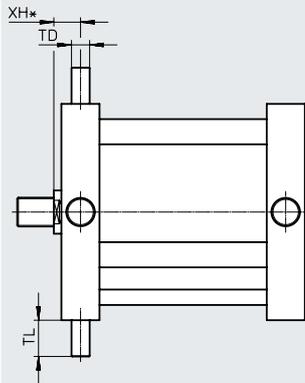
## Datasheet

### Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

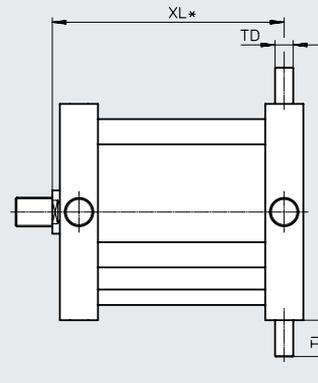
DPCB-...-Y2



XH\* = plus stroke length

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

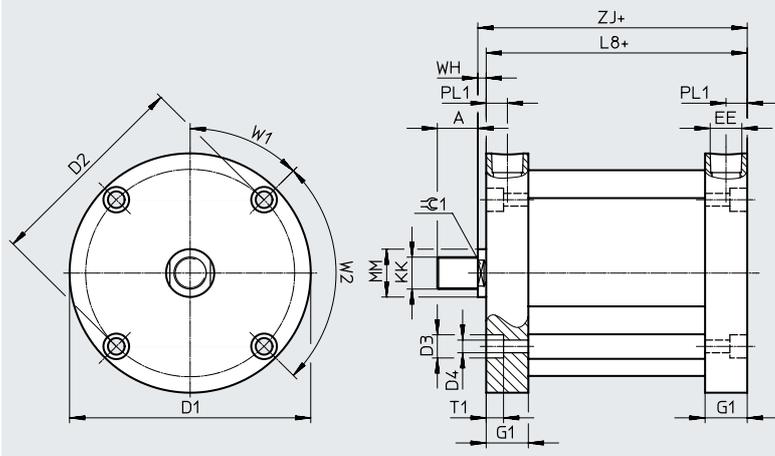
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	1.32
1 1/4...2	0.25	0.5	0.38	1.94
2 1/2...3	0.25	0.5	0.38	2.57
3 1/2...4	0.25	0.5	0.38	–

Datasheet

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
1 1/4...2	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
2 1/2; 3	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF
3 1/2; 4	0.63	3.12	2.69	0.34	0.2	1/8 NPT	0.53	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊕ 1
1/8...1	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1 1/4...2	1.56	0.75	0.25	0.22	45°	90°	0.13	1.69	0.63
2 1/2; 3	2.19	0.75	0.25	0.22	45°	90°	0.13	2.32	0.63
3 1/2; 4	2.81	0.75	0.25	0.22	45°	90°	0.13	2.94	0.63

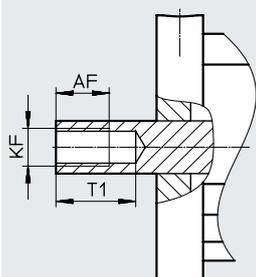
Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

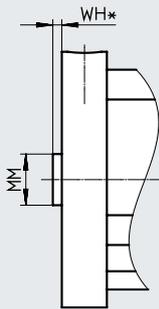
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.3	1/2-13 UNC	1/2-20 UNF	0.45	0.75	0.13
1/4	0.4	1/2-13 UNC	1/2-20 UNF	0.562	0.75	0.13
3/8	0.53	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
3/4	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
7/8...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

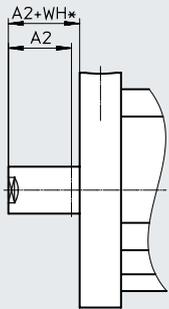
Datasheet

Dimensions – piston Ø 2

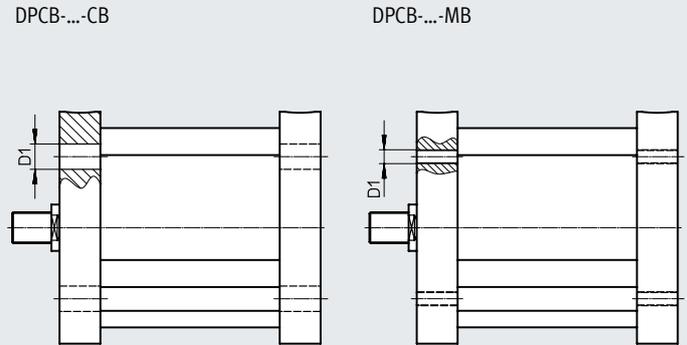
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



+ = plus stroke length

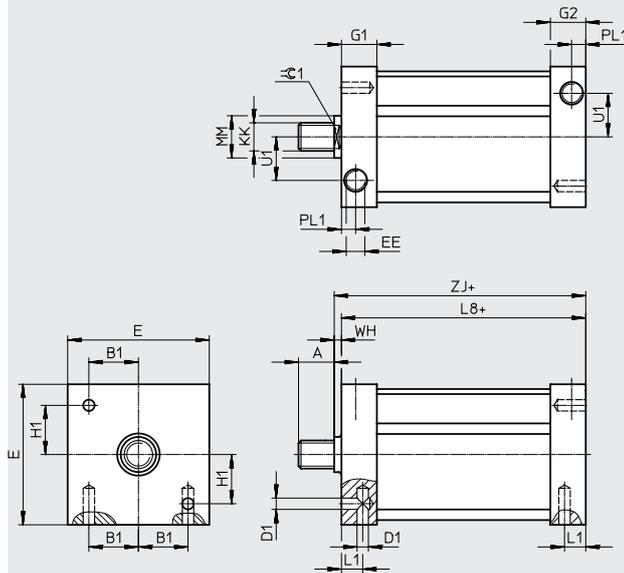


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.34	[MB] 10-24 UNC

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	B1	D1 ∅	E	EE	G1	G2	H1	KK
1/8...4	0.63	0.88	1/4-20 UNC	2.5	1/8 NPT	0.63	0.63	0.88	1/2-13 UNC 1/2-20 UNF

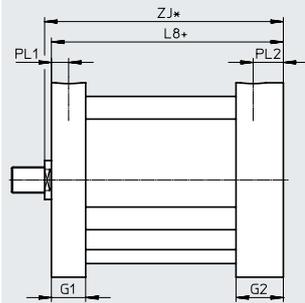
Stroke [in]	L1	L8	MM ∅	PL1	U1)	WH	ZJ	∅ 1
1/8...1	0.38	1.31	0.75	0.25	0.77	0.13	1.44	0.63
1 1/4...2	0.38	1.94	0.75	0.25	0.77	0.13	2.07	0.63
2 1/2...3	0.38	2.56	0.75	0.25	0.77	0.13	2.69	0.63
3 1/2...4	0.38	3.19	0.75	0.25	0.77	0.13	3.32	0.63

Datasheet

**Dimensions – piston Ø 2**

Download CAD data → [www.festo.com](http://www.festo.com)

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



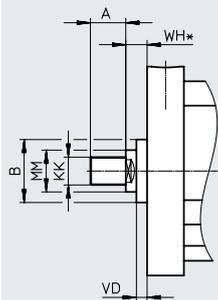
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.53	0.19	1.13	0.25	0.44	1.26
1 1/4...2	0.53	0.19	1.75	0.25	0.44	1.88
2 1/2; 3	0.53	0.19	2.38	0.25	0.44	2.51
3 1/2; 4	0.53	0.19	3	0.25	0.44	3.13

**Dimensions – piston Ø 2**

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

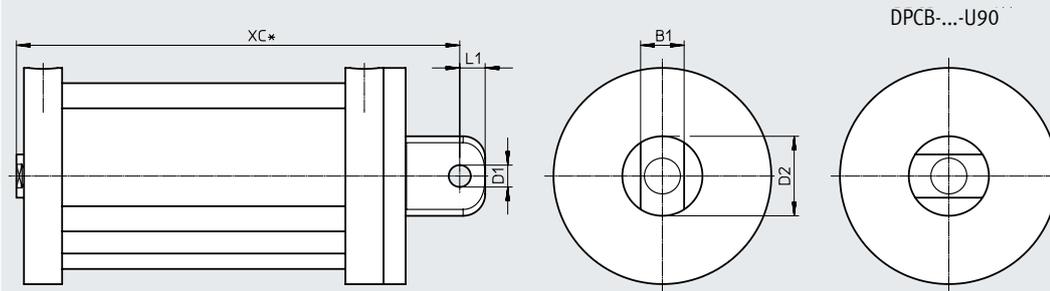
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC 1/2-20 UNF	0.75	0.38	0.19

## Datasheet

## Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)  
 [U] With swivelling rod eye  
 [U90] With swivelling rod eye, rotated 90°



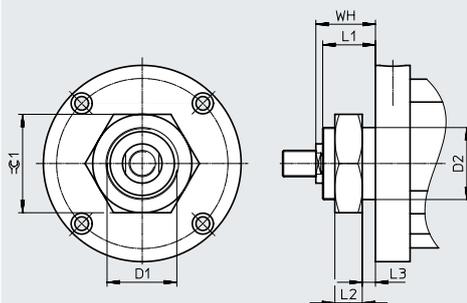
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	2.32
1 1/4...2	0.75	0.38	1.38	0.44	2.94
2 1/2...3	0.75	0.38	1.38	0.44	3.57
3 1/2...4	0.75	0.38	1.38	0.44	4.19

## Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	1/8
1/8...4	1 3/8-12 UNF-2A	1.38	0.88	0.52	0.19	1.01	1.88

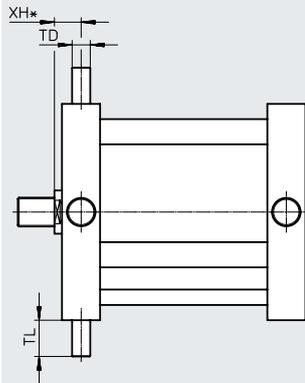
Datasheet

Dimensions – piston Ø 2

Download CAD data → [www.festo.com](http://www.festo.com)

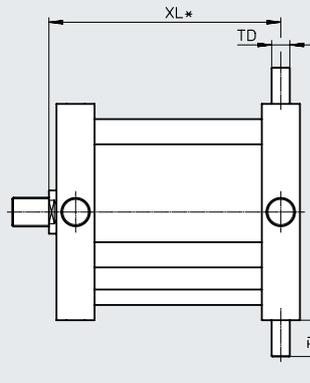
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

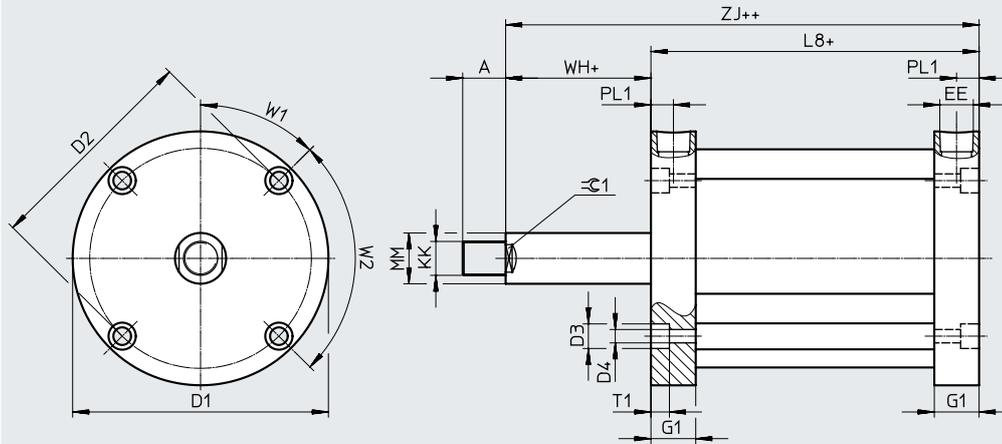
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.25	0.5	0.38	0.82
1 1/4...2	0.25	0.5	0.38	1.44
2 1/2...3	0.25	0.5	0.38	2.07
3 1/2...4	0.25	0.5	0.38	2.69

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
1 1/4...2	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
2 1/2; 3	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
3 1/2; 4	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	ϕ 1
1/8...1	1.94	0.75	0.33	0.27	45°	90°	0.13	2.07	0.63
1 1/4...2	2.81	0.75	0.33	0.27	45°	90°	0.13	2.94	0.63
2 1/2; 3	2.81	0.75	0.33	0.27	45°	90°	0.13	2.94	0.63
3 1/2; 4	–	0.75	0.33	0.27	45°	90°	0.13	–	0.63

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

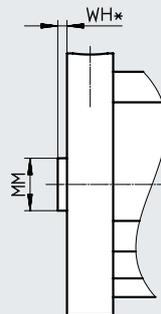
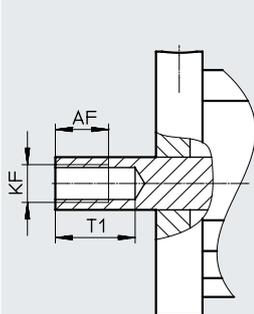
[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.425	1/2-13 UNC	1/2-20 UNF	0.575	0.75	0.13
1/4	0.535	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
3/8	0.645	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
3/4...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

Datasheet

Dimensions – piston Ø 2 1/2

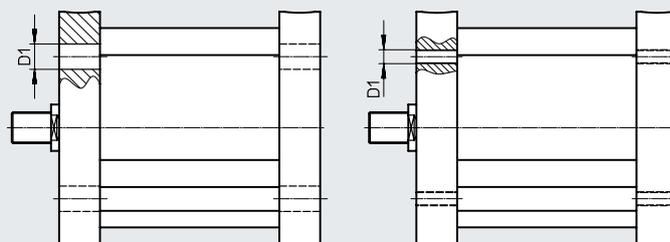
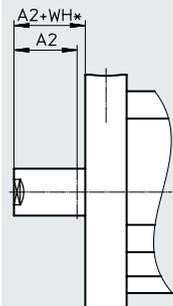
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



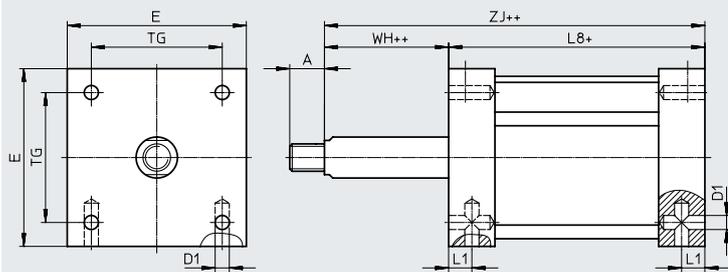
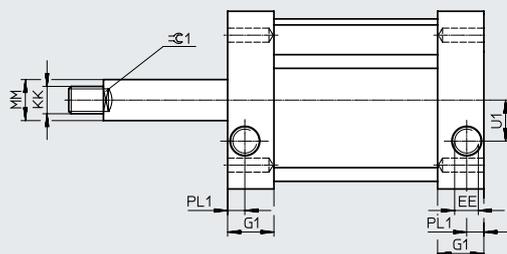
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.41	[MB] 1/4-20 UNC

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.63	5/16-18 UNC	3.25	1/4 NPT	0.84	1/2-13 UNC 1/2-20 UNF	0.42

Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅ 1
1/8...1	2.39	0.75	0.31	2.36	0.75	0.13	2.52	0.63
1 1/4...2	3.27	0.75	0.31	2.36	0.75	0.13	3.40	0.63
2 1/2...3	3.29	0.75	0.31	2.36	0.75	0.13	3.52	0.63
3 1/2...4	–	0.75	0.31	2.36	0.75	0.13	–	0.63

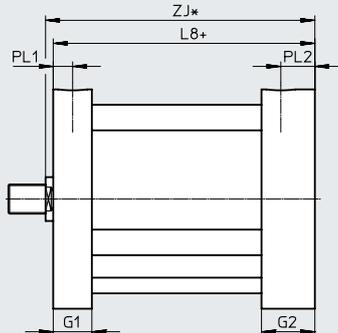
## Datasheet

## Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

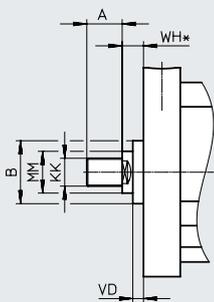
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.66	0.91	2.19	0.33	0.58	2.32
1 1/4...2	0.66	0.91	3.06	0.33	0.58	3.19
2 1/2; 3	0.66	0.91	3.06	0.33	0.58	3.19
3 1/2; 4	0.66	0.91	–	0.33	0.58	–

## Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

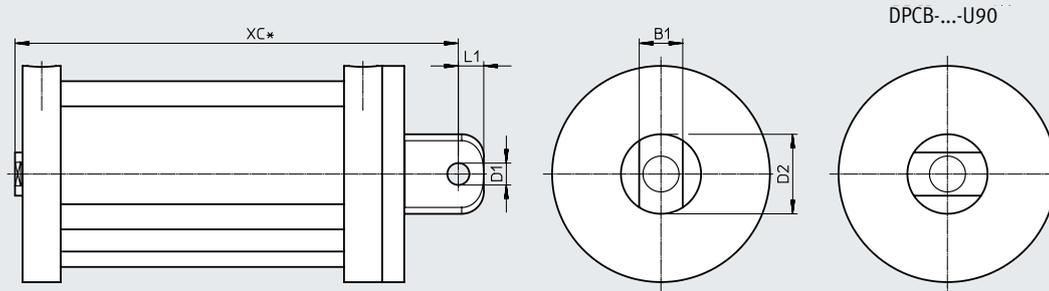
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC 1/2-20 UNF	0.75	0.38	0.19

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



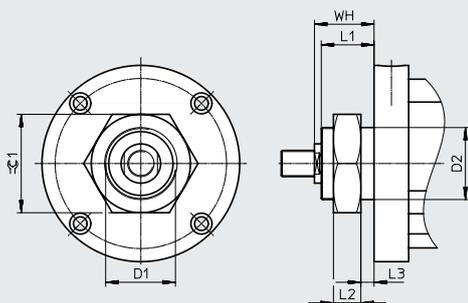
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	3.38
1 1/4...2	0.75	0.38	1.38	0.44	4.25
2 1/2...3	0.75	0.38	1.38	0.44	4.25
3 1/2...4	0.75	0.38	1.38	0.44	–

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⊕ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

## Datasheet

### Dimensions – piston Ø 2 1/2

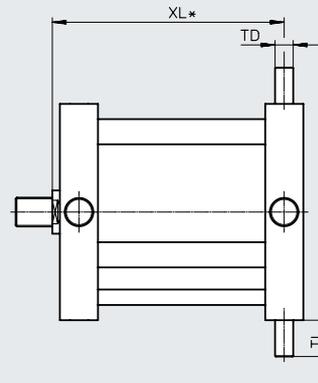
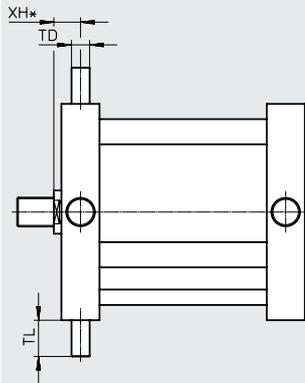
Download CAD data → [www.festo.com](http://www.festo.com)

[P] Single-acting, pulling (piston rod advanced by spring force)  
 [Y2] Trunnion flange mounting position, front

[P] Single-acting, pulling (piston rod advanced by spring force)  
 [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

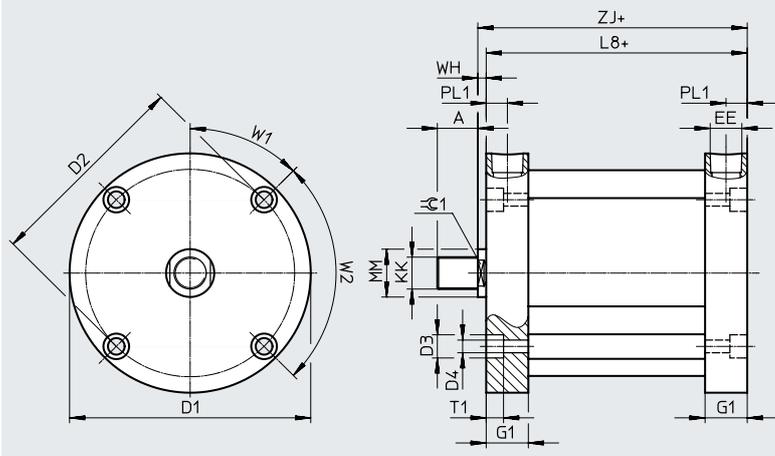
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.312	0.63	0.46	1.74
1 1/4...2	0.312	0.63	0.46	2.61
2 1/2...3	0.312	0.63	0.46	2.61
3 1/2...4	0.312	0.63	0.46	-

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
1 1/4...2	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
2 1/2; 3	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF
3 1/2; 4	0.63	3.75	3.25	0.4	0.26	1/4 NPT	0.66	1/2-13 UNC	1/2-20 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊙ 1
1/8...1	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
1 1/4...2	2.06	0.75	0.33	0.27	45°	90°	0.13	2.19	0.63
2 1/2; 3	2.94	0.75	0.33	0.27	45°	90°	0.13	3.07	0.63
3 1/2; 4	3.81	0.75	0.33	0.27	45°	90°	0.13	3.94	0.63

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

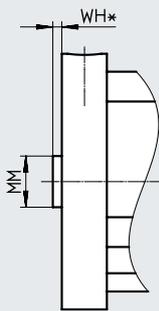
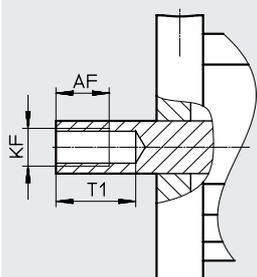
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.425	1/2-13 UNC	1/2-20 UNF	0.575	0.75	0.13
1/4	0.535	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
3/8	0.645	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
3/4...4	0.75	1/2-13 UNC	1/2-20 UNF	1.125	0.75	0.13

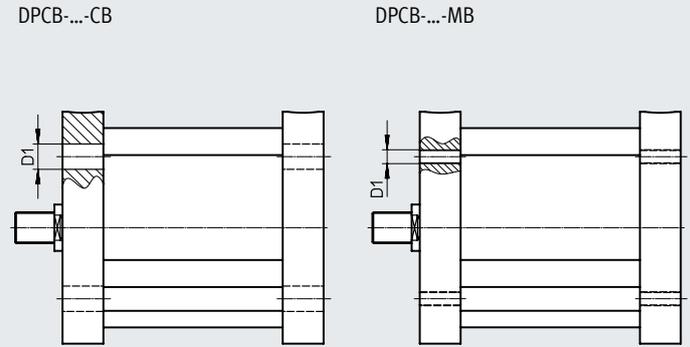
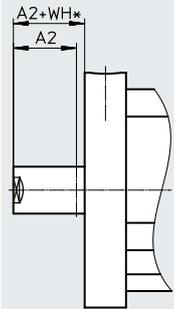
Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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

[S] Single-acting, pushing (piston rod retracted by spring force)  
 [CB] Through-holes, at both ends  
 [MB] Mounting thread, at both ends



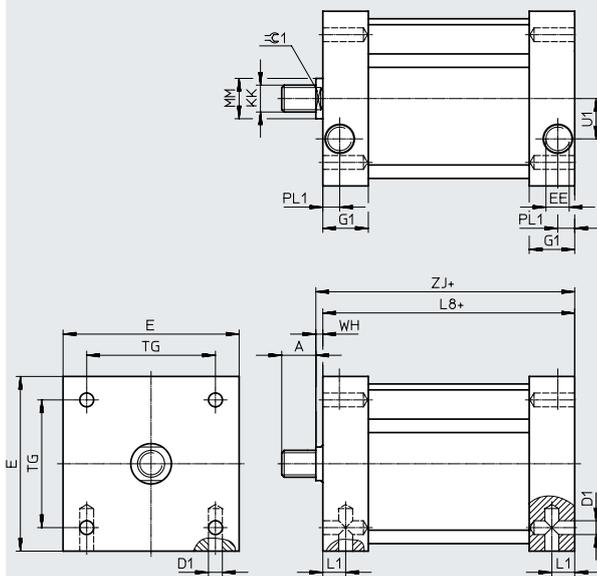
+ = plus stroke length

Stroke [in]	A2		WH	D1	
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.41	[MB] 1/4-20 UNC

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.63	5/16-18 UNC	3.25	1/4 NPT	0.84	1/2-13 UNC 1/2-20 UNF	0.42

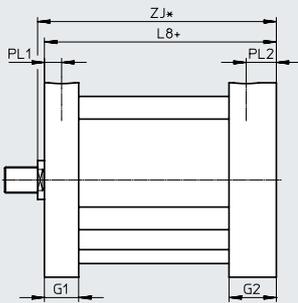
Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅1
1/8...1	1.66	0.75	0.31	2.36	0.75	0.13	1.79	0.63
1 1/4...2	2.54	0.75	0.31	2.36	0.75	0.13	2.67	0.63
2 1/2...3	3.41	0.75	0.31	2.36	0.75	0.13	3.54	0.63
3 1/2...4	4.29	0.75	0.31	2.36	0.75	0.13	4.42	0.63

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



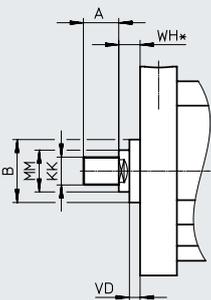
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.66	0.25	1.44	0.33	0.58	1.57
1 1/4...2	0.66	0.25	2.31	0.33	0.58	2.44
2 1/2; 3	0.66	0.25	3.19	0.33	0.58	3.32
3 1/2; 4	0.66	0.25	4.06	0.33	0.58	4.19

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

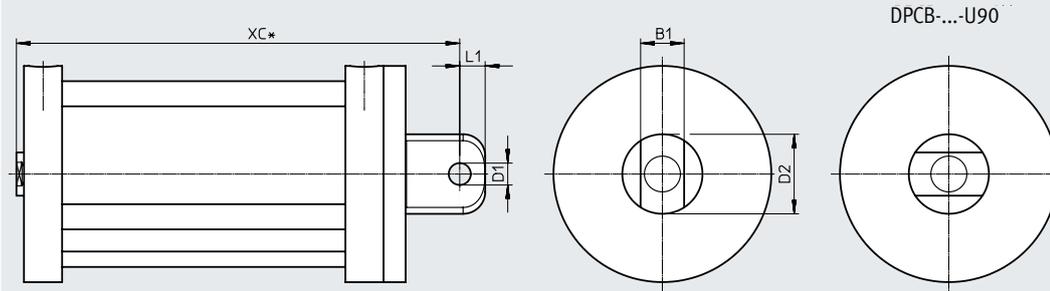
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC 1/2-20 UNF	0.75	0.38	0.19

Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



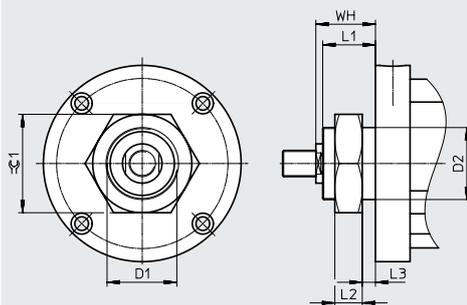
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	0.75	0.38	1.38	0.44	2.63
1 1/4...2	0.75	0.38	1.38	0.44	3.5
2 1/2...3	0.75	0.38	1.38	0.44	4.38
3 1/2...4	0.75	0.38	1.38	0.44	5.25

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⊙ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

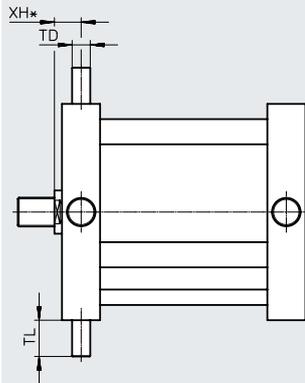
Datasheet

Dimensions – piston Ø 2 1/2

Download CAD data → [www.festo.com](http://www.festo.com)

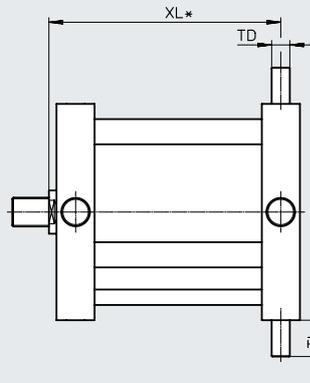
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

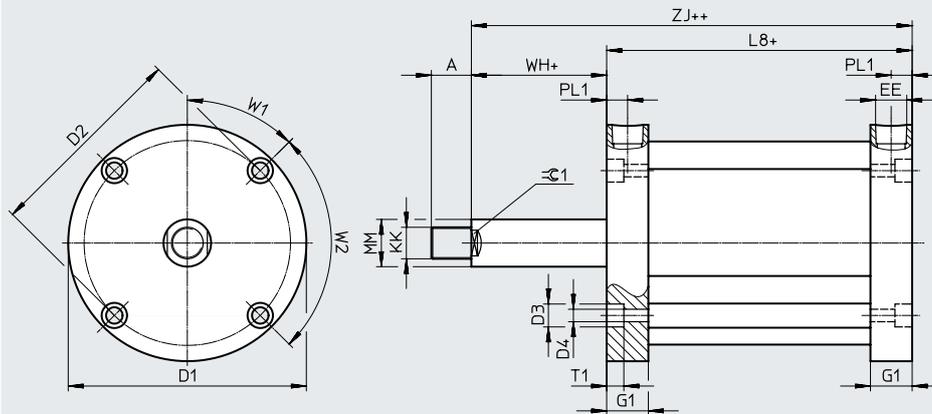
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.312	0.63	0.46	0.99
1 1/4...2	0.312	0.63	0.46	1.86
2 1/2...3	0.312	0.63	0.46	2.74
3 1/2...4	0.312	0.63	0.46	3.61

Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
1 1/4...2	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
2 1/2; 3	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
3 1/2; 4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⊖ 1
1/8...1	2	0.88	0.33	0.27	45°	90°	0.13	2.13	0.75
1 1/4...2	2.88	0.88	0.33	0.27	45°	90°	0.13	3.01	0.75
2 1/2; 3	2.88	0.88	0.33	0.27	45°	90°	0.13	3.01	0.75
3 1/2; 4	–	0.88	0.33	0.27	45°	90°	0.13	–	0.75

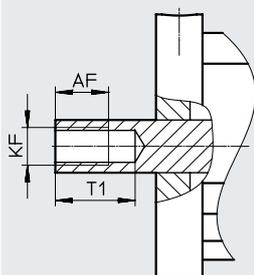
Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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

[F] Female thread

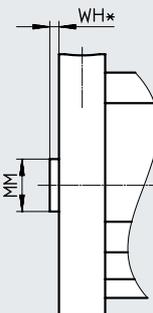
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.45	5/8-11 UNC	5/8-18 UNF	0.6	0.88	0.13
1/4	0.5	5/8-11 UNC	5/8-18 UNF	0.725	0.88	0.13
3/8	0.625	5/8-11 UNC	5/8-18 UNF	0.85	0.88	0.13
1/2	0.75	5/8-11 UNC	5/8-18 UNF	0.975	0.88	0.13
5/8	0.8125	5/8-11 UNC	5/8-18 UNF	1.1	0.88	0.13
3/4	0.8125	5/8-11 UNC	5/8-18 UNF	1.225	0.88	0.13
7/8...4	0.8125	5/8-11 UNC	5/8-18 UNF	1.25	0.88	0.13

Datasheet

Dimensions – piston Ø 3

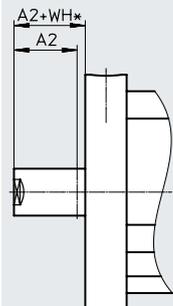
Download CAD data → [www.festo.com](http://www.festo.com)

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

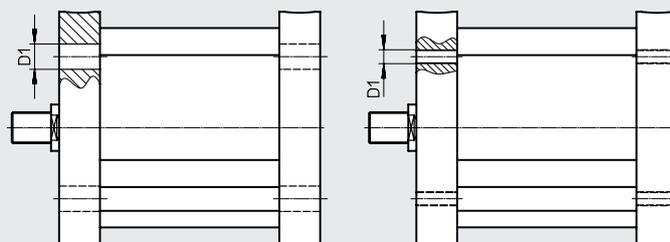
- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



+ = plus stroke length

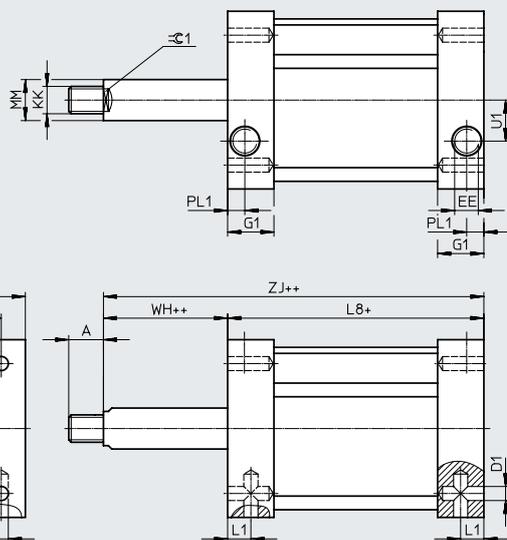


Stroke [in]	A2		WH	D1	D1
	min.	max.		∅ [CB]	∅ [MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.75	5/16-18 UNC	3.75	1/4 NPT	0.88	5/8-11 UNC 5/8-18 UNF	0.44

Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅ 1
1/8...1	2.44	0.88	0.31	2.88	0.88	0.13	2.57	0.75
1 1/4...2	3.31	0.88	0.31	2.88	0.88	0.13	3.44	0.75
2 1/2...3	3.33	0.88	0.31	2.88	0.88	0.13	3.46	0.75
3 1/2...4	-	0.88	0.31	2.88	0.88	0.13	-	0.75

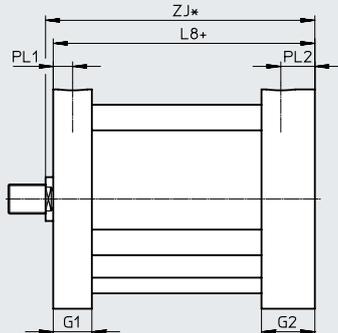
## Datasheet

## Dimensions – piston Ø 3

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

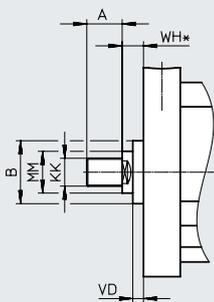
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.69	0.94	2.25	0.33	0.58	2.38
1 1/4...2	0.69	0.94	3.13	0.33	0.58	3.26
2 1/2; 3	0.69	0.94	3.13	0.33	0.58	3.26
3 1/2; 4	0.69	0.94	–	0.33	0.58	–

## Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

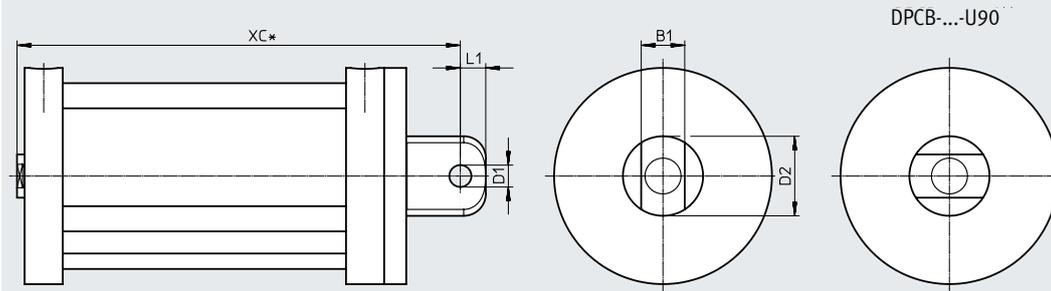
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.75	1.25	5/8-11 UNC 5/8-18 UNF	0.88	0.38	0.19

Datasheet

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



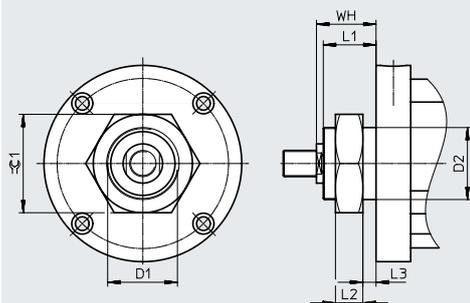
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	1	0.63	1.88	0.56	3.82
1/4...2	1	0.63	1.88	0.56	4.7
2 1/2...3	1	0.63	1.88	0.56	4.7
3 1/2...4	1	0.63	1.88	0.56	–

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

Datasheet

Dimensions – piston Ø 3

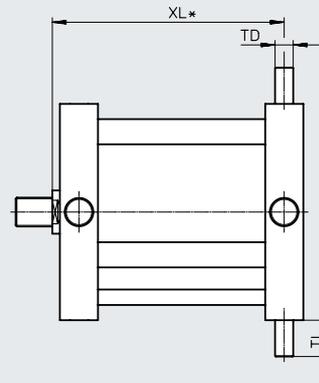
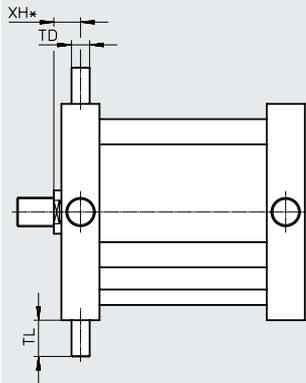
Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

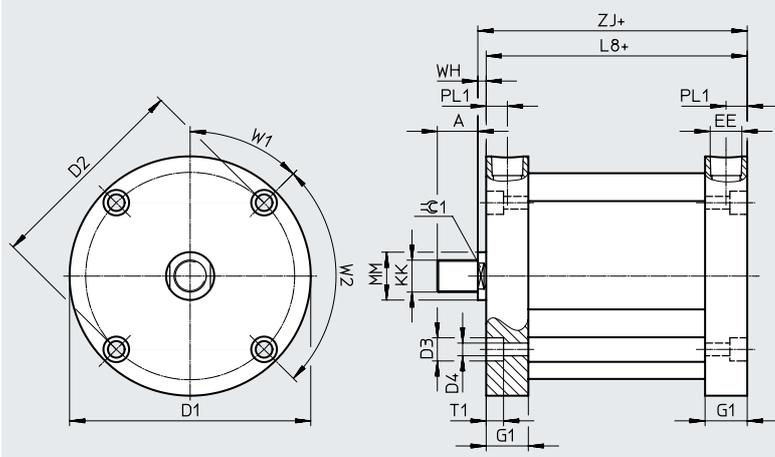
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.312	0.63	0.46	1.9
1 1/4...2	0.312	0.63	0.46	2.68
2 1/2...3	0.312	0.63	0.46	2.68
3 1/2...4	0.312	0.63	0.46	-

Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
1 1/4...2	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
2 1/2; 3	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF
3 1/2; 4	0.75	4.25	3.78	0.4	0.26	1/4 NPT	0.69	5/8-11 UNC	5/8-18 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8...1	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1 1/4...2	2.12	0.88	0.33	0.27	45°	90°	0.13	2.25	0.75
2 1/2; 3	3	0.88	0.33	0.27	45°	90°	0.13	3.13	0.75
3 1/2; 4	3.88	0.88	0.33	0.27	45°	90°	0.13	4.01	0.75

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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

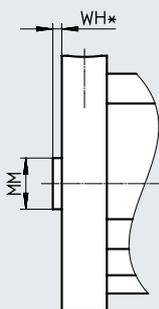
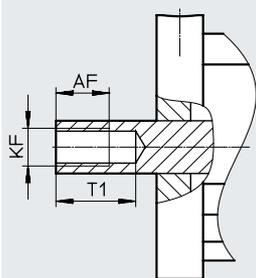
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.45	5/8-11 UNC	5/8-18 UNF	0.6	0.88	0.13
1/4	0.5	5/8-11 UNC	5/8-18 UNF	0.725	0.88	0.13
3/8	0.625	5/8-11 UNC	5/8-18 UNF	0.85	0.88	0.13
1/2	0.75	5/8-11 UNC	5/8-18 UNF	0.975	0.88	0.13
5/8	0.8125	5/8-11 UNC	5/8-18 UNF	1.1	0.88	0.13
3/4	0.8125	5/8-11 UNC	5/8-18 UNF	1.225	0.88	0.13
7/8...4	0.8125	5/8-11 UNC	5/8-18 UNF	1.25	0.88	0.13

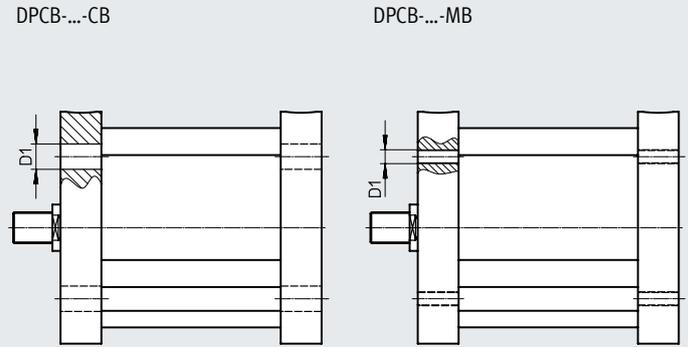
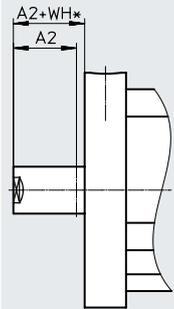
Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends



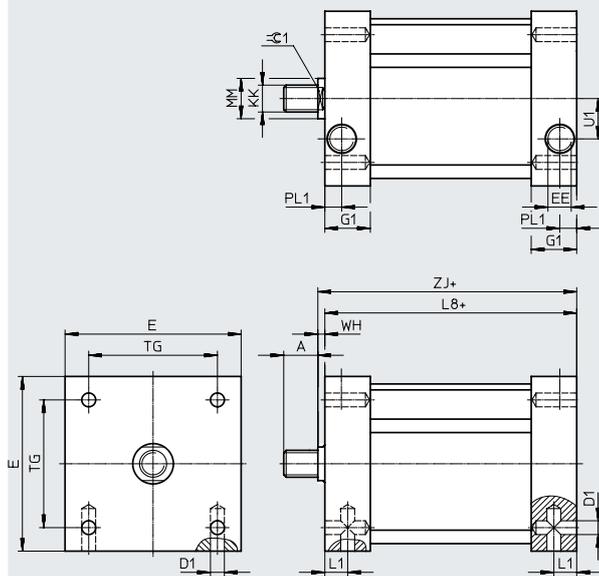
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.41	[MB] 1/4-20 UNC

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.75	5/16-18 UNC	3.75	1/4 NPT	0.88	5/8-11 UNC 5/8-18 UNF	0.44

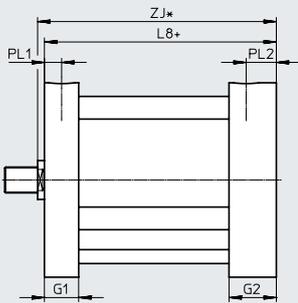
Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	$\pm 0.1$
1/8...1	1.71	0.88	0.31	2.88	0.88	0.13	1.84	0.75
1/4...2	2.58	0.88	0.31	2.88	0.88	0.13	2.71	0.75
2 1/2...3	3.46	0.88	0.31	2.88	0.88	0.13	3.59	0.75
3 1/2...4	4.33	0.88	0.31	2.88	0.88	0.13	4.46	0.75

Datasheet

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

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



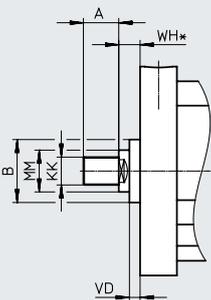
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.69	0.25	1.5	0.33	0.58	1.63
1 1/4...2	0.69	0.25	2.37	0.33	0.58	2.5
2 1/2; 3	0.69	0.25	3.25	0.33	0.58	3.38
3 1/2; 4	0.69	0.25	4.13	0.33	0.58	4.26

**Dimensions – piston Ø 3**

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

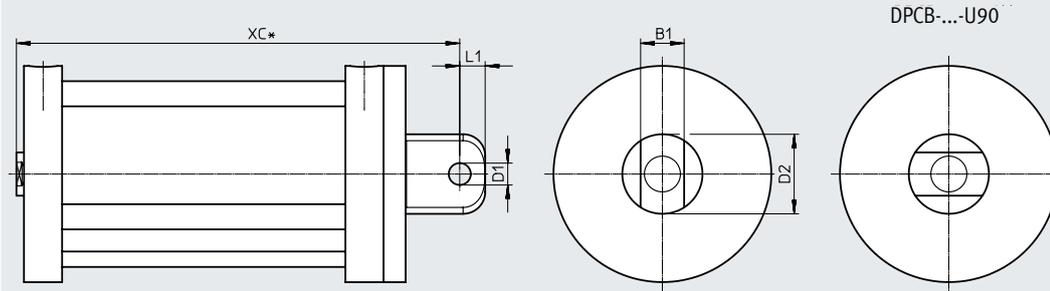
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.75	1.25	5/8-11 UNC 5/8-18 UNF	0.88	0.38	0.19

Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



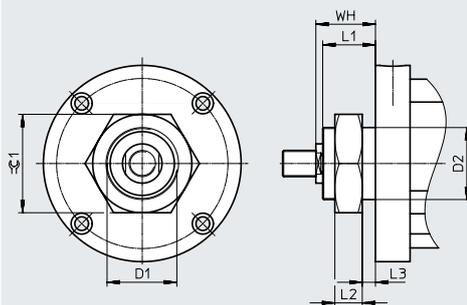
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	1	0.63	1.88	0.56	3.07
1/4...2	1	0.63	1.88	0.56	3.94
2 1/2...3	1	0.63	1.88	0.56	4.82
3 1/2...4	1	0.63	1.88	0.56	5.7

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

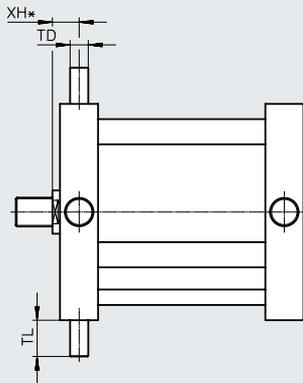
Datasheet

Dimensions – piston Ø 3

Download CAD data → [www.festo.com](http://www.festo.com)

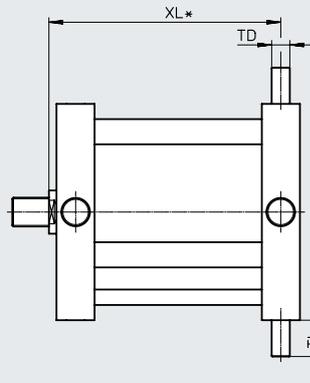
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

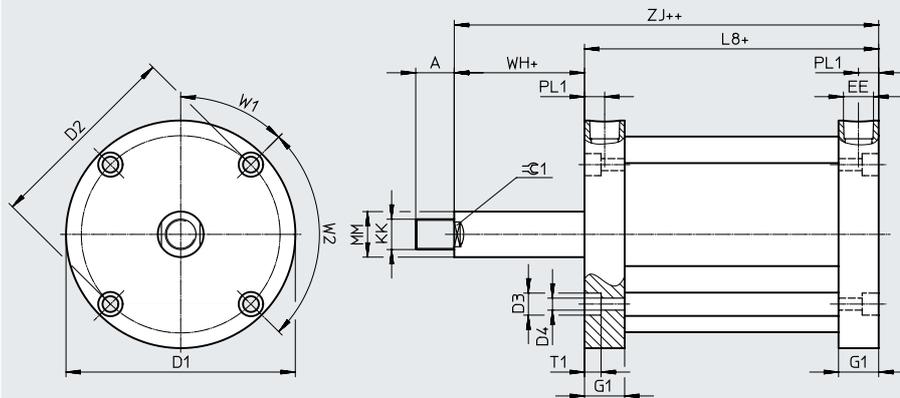
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.312	0.63	0.46	1.05
1 1/4...2	0.312	0.63	0.46	1.92
2 1/2...3	0.312	0.63	0.46	2.8
3 1/2...4	0.312	0.63	0.46	3.68

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
 ++ = plus 2x stroke length

Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
1 1/4...2	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
2 1/2; 3	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
3 1/2; 4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈G 1
1/8...1	2.31	1	0.42	0.33	45°	90°	0.13	2.44	0.88
1 1/4...2	3.19	1	0.42	0.33	45°	90°	0.13	3.32	0.88
2 1/2; 3	3.19	1	0.42	0.33	45°	90°	0.13	3.32	0.88
3 1/2; 4	–	1	0.42	0.33	45°	90°	0.13	–	0.88

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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

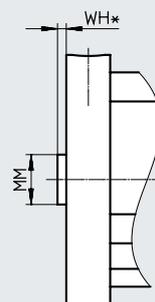
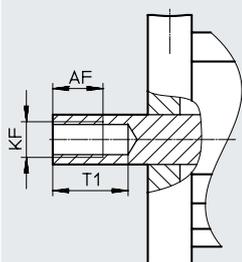
[P] Single-acting, pulling (piston rod advanced by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.4	3/4-10 UNC	3/4-16 UNF	0.54	1	0.13
1/4	0.45	3/4-10 UNC	3/4-16 UNF	0.625	1	0.13
3/8	0.575	3/4-10 UNC	3/4-16 UNF	0.75	1	0.13
1/2	0.7	3/4-10 UNC	3/4-16 UNF	0.875	1	0.13
5/8	0.825	3/4-10 UNC	3/4-16 UNF	1	1	0.13
3/4	0.875	3/4-10 UNC	3/4-16 UNF	1.125	1	0.13
7/8	0.875	3/4-10 UNC	3/4-16 UNF	1.25	1	0.13
1...4	0.875	3/4-10 UNC	3/4-16 UNF	1.375	1	0.13

Datasheet

Dimensions – piston Ø 4

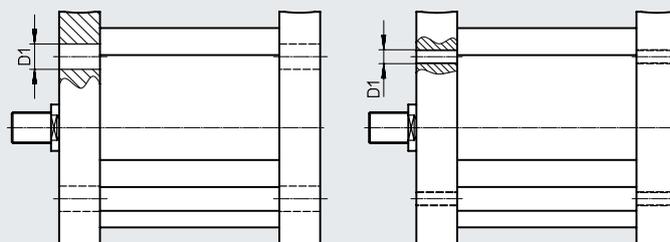
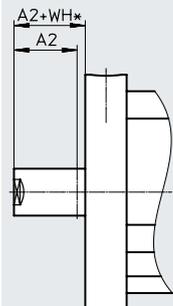
Download CAD data → [www.festo.com](http://www.festo.com)

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

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [CB] Through-holes, at both ends
- [MB] Mounting thread, at both ends

DPCB-...-CB

DPCB-...-MB



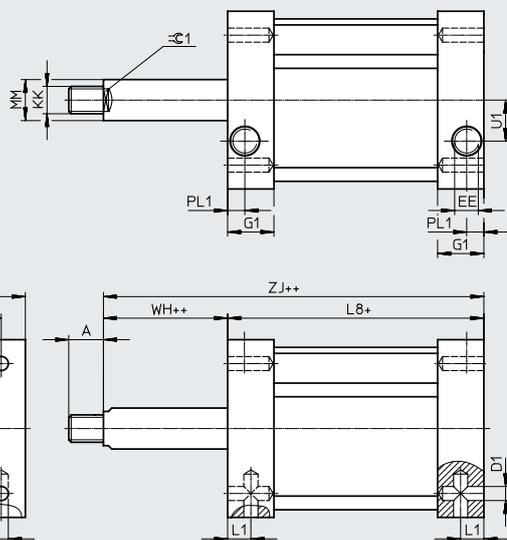
+ = plus stroke length

Stroke [in]	A2		WH	D1	D1
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.5	[MB] 5/16-18 UNC

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length  
++ = plus 2x stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.75	7/16-14 UNC	5	3/8 NPT	1	3/4-10 UNC 3/4-16 UNF	0.5

Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅ 1
1/8...1	2.75	1	0.44	3.62	1.25	0.13	2.88	0.88
1 1/4...2	3.62	1	0.44	3.62	1.25	0.13	3.75	0.88
2 1/2...3	3.63	1	0.44	3.62	1.25	0.13	3.76	0.88
3 1/2...4	-	1	0.44	3.62	1.25	0.13	-	0.88

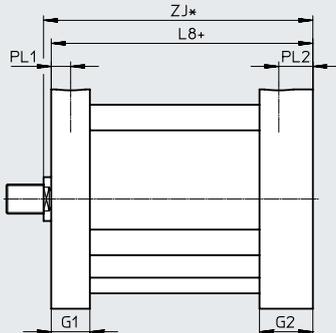
## Datasheet

## Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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

[V] Reinforced end cap



+ = plus 2x stroke length

+ = plus stroke length

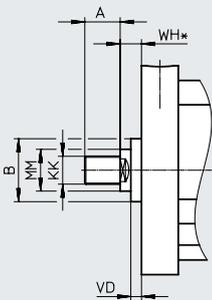
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.84	1.22	2.69	0.42	0.8	2.82
1 1/4...2	0.84	1.22	3.57	0.42	0.8	3.7
2 1/2; 3	0.84	1.22	3.57	0.42	0.8	3.7
3 1/2; 4	0.84	1.22	–	0.42	0.8	–

## Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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

[A4] Wiper made of NBR



+ = plus stroke length

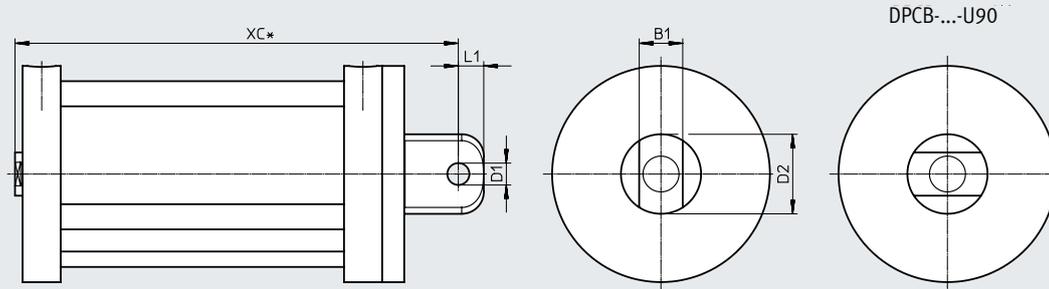
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.75	1.38	3/4-10 UNC 3/4-16 UNF	1	0.38	0.19

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [U] With swivelling rod eye
- [U90] With swivelling rod eye, rotated 90°



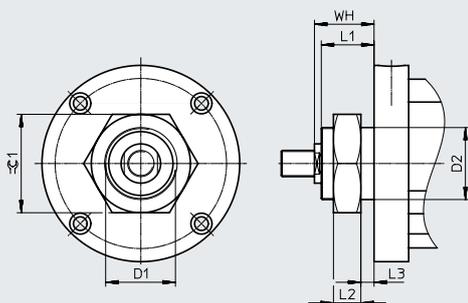
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	1	0.63	1.88	0.56	4.19
1/4...2	1	0.63	1.88	0.56	5.07
2 1/2...3	1	0.63	1.88	0.56	5.07
3 1/2...4	1	0.63	1.88	0.56	–

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 3/4-12 UNF-2A	1.75	1.12	0.88	0.19	1.25	2.62

## Datasheet

### Dimensions – piston $\varnothing 4$

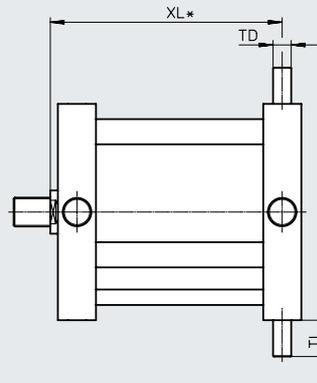
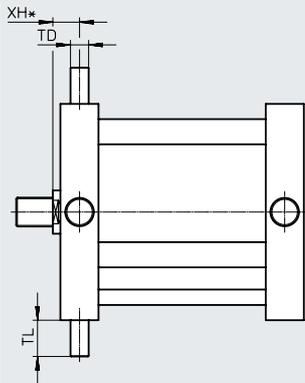
Download CAD data → [www.festo.com](http://www.festo.com)

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y2] Trunnion flange mounting position, front

- [P] Single-acting, pulling (piston rod advanced by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y2

DPCB-...-Y3



XH\* = plus stroke length

XL\* = plus 2x stroke length

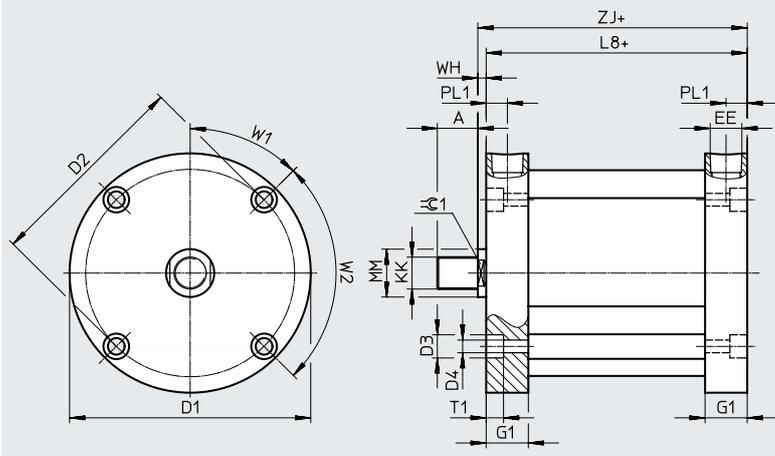
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.375	0.75	0.55	2.02
1 1/4...2	0.375	0.75	0.55	2.9
2 1/2...3	0.375	0.75	0.55	2.9
3 1/2...4	0.375	0.75	0.55	–

Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...1	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
1 1/4...2	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
2 1/2; 3	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF
3 1/2; 4	0.75	5.5	4.94	0.49	0.33	3/8 NPT	0.84	3/4-10 UNC	3/4-16 UNF

Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	≈ 1
1/8...1	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
1 1/4...2	2.44	1	0.42	0.33	45°	90°	0.13	2.57	0.88
2 1/2; 3	3.31	1	0.42	0.33	45°	90°	0.13	3.44	0.88
3 1/2; 4	4.19	1	0.42	0.33	45°	90°	0.13	4.32	0.88

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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

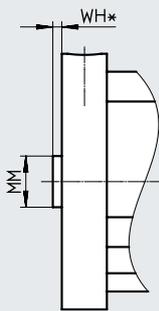
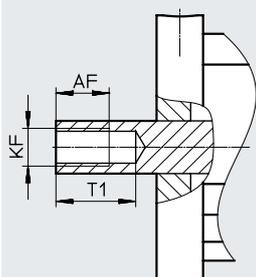
[S] Single-acting, pushing (piston rod retracted by spring force)

[F] Female thread

[N] No thread

DPCB-...-F

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]	[F]	[F]	[N]	[N]
1/8	0.4	3/4-10 UNC	3/4-16 UNF	0.54	1	0.13
1/4	0.45	3/4-10 UNC	3/4-16 UNF	0.625	1	0.13
3/8	0.575	3/4-10 UNC	3/4-16 UNF	0.75	1	0.13
1/2	0.7	3/4-10 UNC	3/4-16 UNF	0.875	1	0.13
5/8	0.825	3/4-10 UNC	3/4-16 UNF	1	1	0.13
3/4	0.875	3/4-10 UNC	3/4-16 UNF	1.125	1	0.13
7/8	0.875	3/4-10 UNC	3/4-16 UNF	1.25	1	0.13
1...4	0.875	3/4-10 UNC	3/4-16 UNF	1.375	1	0.13

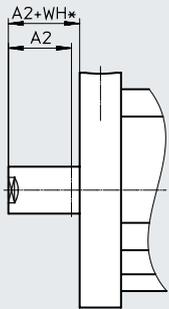
Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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

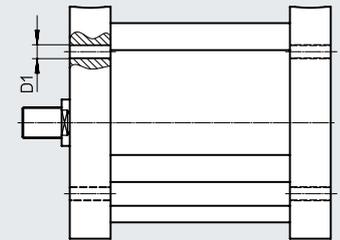
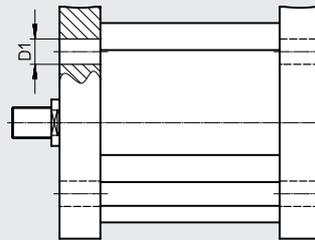
[S] Single-acting, pushing (piston rod retracted by spring force)  
 [CB] Through-holes, at both ends  
 [MB] Mounting thread, at both ends



+ = plus stroke length

DPCB-...-CB

DPCB-...-MB

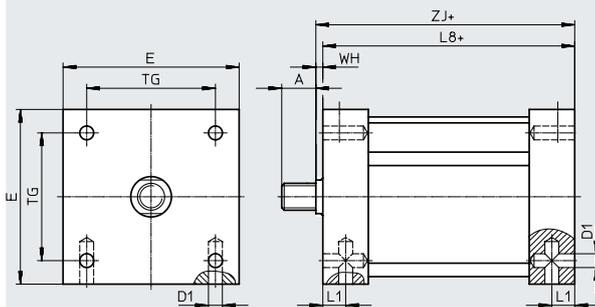
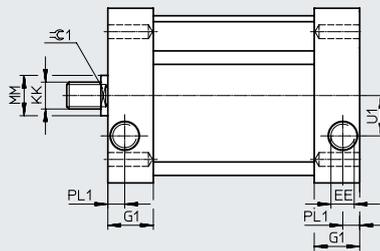


Stroke [in]	A2		WH	D1	
	min.	max.		∅	∅
1/8...4	0.001	6	0.13	[CB] 0.5	[MB] 5/16-18 UNC

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

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



+ = plus stroke length

Stroke [in]	A	D1 ∅	E	EE	G1	KK	L1
1/8...4	0.75	7/16-14 UNC	5	3/8 NPT	1	3/4-10 UNC 3/4-16 UNF	0.5

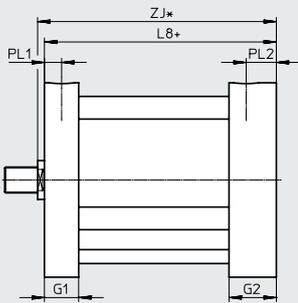
Stroke [in]	L8	MM ∅	PL1	TG	U1)	WH	ZJ	∅ 1
1/8...1	2	1	0.44	3.62	1.25	0.13	2.13	0.88
1/4...2	2.88	1	0.44	3.62	1.25	0.13	3.01	0.88
2 1/2...3	3.75	1	0.44	3.62	1.25	0.13	3.88	0.88
3 1/2...4	4.63	1	0.44	3.62	1.25	0.13	4.76	0.88

Datasheet

**Dimensions – piston Ø 4**

Download CAD data → [www.festo.com](http://www.festo.com)

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



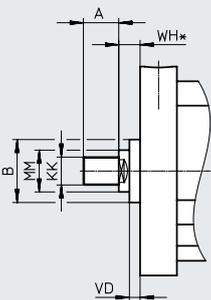
\*/+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.84	0.38	1.94	0.42	0.8	2.07
1 1/4...2	0.84	0.38	2.82	0.42	0.8	2.95
2 1/2; 3	0.84	0.38	3.69	0.42	0.8	3.82
3 1/2; 4	0.84	0.38	4.57	0.42	0.8	4.7

**Dimensions – piston Ø 4**

Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)
- [A4] Wiper made of NBR



+ = plus stroke length

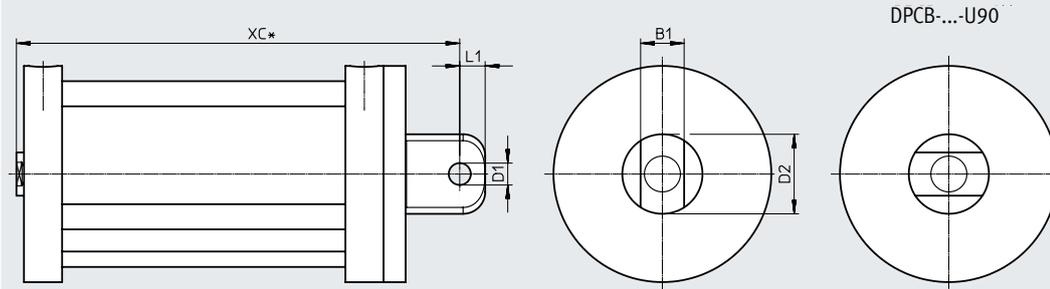
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.75	1.38	3/4-10 UNC 3/4-16 UNF	1	0.38	0.19

## Datasheet

**Dimensions – piston Ø 4**

 Download CAD data → [www.festo.com](http://www.festo.com)

- [S] Single-acting, pushing (piston rod retracted by spring force)  
 [U] With swivelling rod eye  
 [U90] With swivelling rod eye, rotated 90°



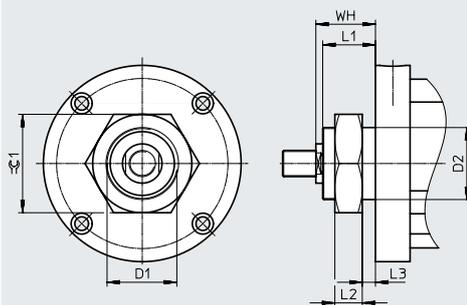
+ = plus 2x stroke length

Stroke [in]	B1	D1 ∅	D2 ∅	L1	XC
1/8...1	1	0.63	1.88	0.56	3.44
1/4...2	1	0.63	1.88	0.56	4.32
2 1/2...3	1	0.63	1.88	0.56	5.19
3 1/2...4	1	0.63	1.88	0.56	6.07

**Dimensions – piston Ø 4**

 Download CAD data → [www.festo.com](http://www.festo.com)

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



Stroke [in]	D1	D2 ∅	L1	L2	L3	WH	⌀ 1
1/8...4	1 3/4-12 UNF-2A	1.75	1.12	0.88	0.19	1.25	2.62

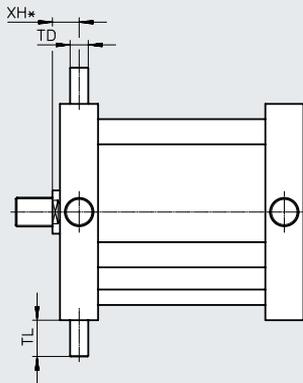
Datasheet

Dimensions – piston Ø 4

Download CAD data → [www.festo.com](http://www.festo.com)

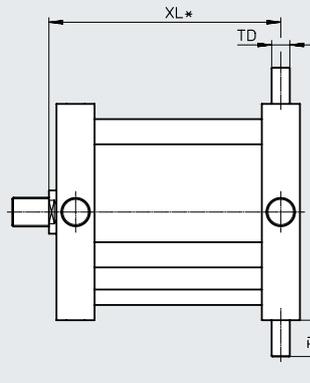
- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y2] Trunnion flange mounting position, front

DPCB-...-Y2



- [S] Single-acting, pushing (piston rod retracted by spring force)
- [Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL\* = plus 2x stroke length

Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...1	0.375	0.75	0.55	1.27
1 1/4...2	0.375	0.75	0.55	2.15
2 1/2...3	0.375	0.75	0.55	3.02
3 1/2...4	0.375	0.75	0.55	3.9

## Ordering data – Modular product system

Ordering table											
Piston ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Module no.	<b>8104879</b>	<b>8104880</b>	<b>8104881</b>	<b>8104882</b>	<b>8104883</b>	<b>8104884</b>	<b>8104885</b>	<b>8104886</b>			
Function	Compact cylinder, single-acting									DPCB	DPCB
System of units	Imperial										
Protection against rotation	Without										
Running characteristics	Standard										
	Low friction									L	
Piston ø	1/2"	3/4"	1 1/16"	1 1/2"	2"	2 1/2"	3"	4"		-..."	
Stroke											
1/8"	1)	1)	1)	1)	1)	1)	1)	1)		-1/8"	
1/4"	1)	1)	1)	1)	1)	1)	1)	1)		-1/4"	
3/8"										-3/8"	
1/2"										-1/2"	
5/8"										-5/8"	
3/4"										-3/4"	
7/8"										-7/8"	
1"										-1"	
1 1/8"										-1 1/8"	
1 1/4"										-1 1/4"	
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 7/8"										-1 7/8"	
2"										-2"	
2 1/8"										-2 1/8"	
2 1/4"										-2 1/4"	
2 3/8"										-2 3/8"	
2 1/2"										-2 1/2"	
2 5/8"										-2 5/8"	
2 3/4"										-2 3/4"	
2 7/8"										-2 7/8"	
3"										-3"	
3 1/8"										-3 1/8"	
3 1/4"										-3 1/4"	
3 3/8"										-3 3/8"	
3 1/2"										-3 1/2"	
3 5/8"										-3 5/8"	
3 3/4"										-3 3/4"	
3 7/8"										-3 7/8"	
4"										-4"	

1) Not with A

Ordering data – Modular product system

Ordering table		1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Function	Single-acting, pulling (piston rod advanced by spring force)										-P	
	Single-acting, pushing (piston rod retracted by spring force)										-S	
Piston rod type	At one end											
Piston rod design	One end plate										J1	
	One end plate with recess and through-hole										J90	
	One end plate, rotated 90°								[6]		J91	
	One end plate with recess and through-hole, rotated 90°								[6]			
Piston rod thread type	Male thread									[5]		
	Female thread									[5]	F	
	No thread									[5]	N	
Compressed air supply port	Lateral											
	–	Rotated 90°								[1] [10]	P90	
		Rotated 180°								[10]	P180	
	–	Rotated 270°								[1] [10]	P270	
Cover shape	Round											
	–	Square								[1]	QX	
End cap	Standard											
	Reinforced									[4] [10] [13]	V	
Type of mounting	Standard											
	With swivelling rod eye									[4]	U	
	Through-holes, at both ends									[10]	CB	
	Through-holes, front									[10]	CF	
	Through-holes, rear									[10]	CR	
	Flange thread, front									[10]	FT	
	Mounting thread, at both ends									[10]	MB	
	Mounting thread, front									[10]	MF	
	Mounting thread, rear									[10]	MR	
	–	Trunnion flange mounting position, front								[1] [10]	Y2	
	–	Trunnion flange mounting position, rear								[1] [10]	Y3	
	With swivelling rod eye, rotated 90°								[4]	U90)		
Cushioning	No cushioning										-N	
	Elastic cushioning rings/plates, front									[3]	-P2	
	Elastic cushioning rings/plates, rear									[2]	-P3	
Position sensing	Without											
	Via proximity switch										A	
Temperature range	Standard											
	-40 ... + 176 °F										-T3	
Wiper variant	None											
	Increased chemical resistance										-A1	
	Wiper made of NBR									[13]	-A4	
Extended piston rod	0.001...6"										-...NE	

- [1] P90, P270, QX, Y2, Y3  
Not with piston Ø 1/2
- [2] P3  
Not with P
- [3] V, U, U90  
Not with S
- [4] V, U, U90  
Not with H, T
- [5] Male thread F, N  
Not with piston rod design: one end plate, J1, J90, J91
- [6] J90, J91  
Not with Y2
- [10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3  
Not with QX
- [13] V, A4  
Not with FT

## Ordering data – Modular product system

Ordering table											
Piston Ø	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Piston rod thread	Without										
	–	10-32 UNF-2A	–	–	–	–	–	–	–	–	-U10
	–	–	–	–	1/2-20 UNF-2A	1/2-20 UNF-2A	–	–	–	–	-U12
	–	–	–	–	–	–	–	3/4-16 UNF-2A	–	–	-U34
	–	–	–	3/8-24 UNF-2A	–	–	–	–	–	–	-U38
	–	–	–	–	–	–	5/8-18 UNF-2A	–	–	–	-U58
	8-32 UNC	–	–	–	–	–	–	–	–	–	-U8C
	–	10-24 UNC	–	–	–	–	–	–	–	–	-U10C
	–	–	–	–	1/2-13 UNC	1/2-13 UNC	–	–	–	–	-U12C
	–	–	–	–	–	–	–	3/4-10 UNC	–	–	-U34C
	–	–	–	3/8-16 UNC	–	–	–	–	–	–	-U38C
	–	–	5/16-24 UNF-2A	–	–	–	–	–	–	–	-U516
	–	–	–	–	–	–	5/8-11 UNC	–	–	–	-U58C
–	–	5/16-18 UNC	–	–	–	–	–	–	–	-U516C	

[1] P90, P270, QX, Y2, Y3  
Not with piston Ø 1/2

[10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3  
Not with QX

## Accessories

### Rod clevis DARC-C5-...-M

For connecting to compact cylinder DPCB

Material:

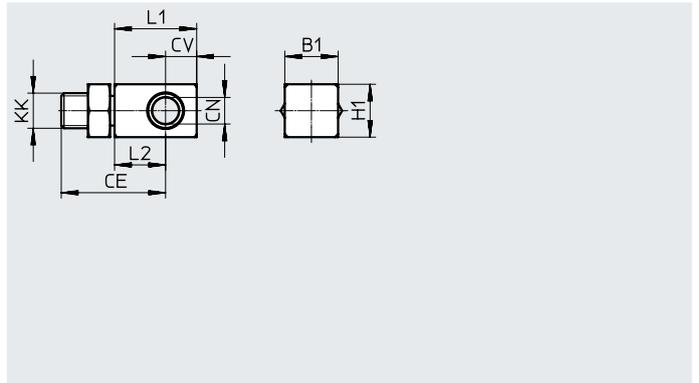
Rod clevis: Steel

Bushing: Bronze

Nut: Steel

RoHS-compliant

Contains paint-wetting impairment substances



#### Dimensions and ordering data

For $\varnothing$ [in]	B1	CE	CN	CV	H1	KK	L1	L2	Part no.	Type
1/2	0.38	0.85	0.187	0.25	0.38	8-32 UNC	0.72	0.47	<b>8106707</b>	<b>DARC-C5-U8C-M</b>
3/4	0.38	0.85	0.187	0.25	0.38	10-32 UNF	0.72	0.47	<b>8106708</b>	<b>DARC-C5-U10-M</b>
1 1/16	0.38	1.1	0.187	0.25	0.38	5/16-24 UNF	0.72	0.47	<b>8106709</b>	<b>DARC-C5-U516-M</b>
1 1/2	0.75	1.35	0.375	0.44	0.75	3/8-24 UNF	1.16	0.72	<b>8106710</b>	<b>DARC-C5-U38-M</b>
2; 2 1/2	0.75	1.47	0.375	0.44	0.75	1/2-20 UNF	1.16	0.72	<b>8106711</b>	<b>DARC-C5-U12-M</b>
3	1	1.88	0.625	0.63	1	5/8-18 UNF	1.63	1	<b>8106712</b>	<b>DARC-C5-U58-M</b>
4	1	1.88	0.625	0.63	1	3/4-16 UNF	1.63	1	<b>8106713</b>	<b>DARC-C5-U34-M</b>

### Swivel flange DAMS-C5-...-D

For connecting to rod clevis DARC

Material:

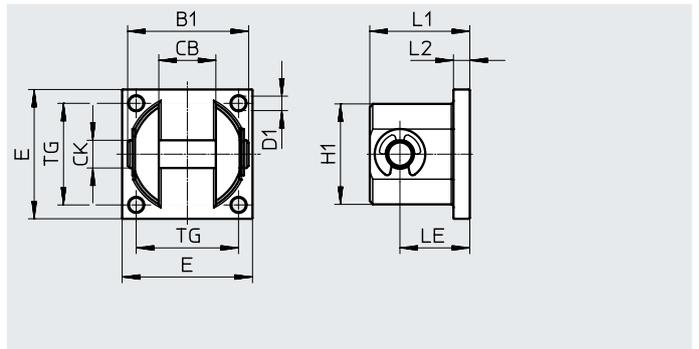
Mounting: Die-cast zinc

Pin: Galvanised steel

Locking mechanism: Galvanised steel

RoHS-compliant

Contains paint-wetting impairment substances



#### Dimensions and ordering data

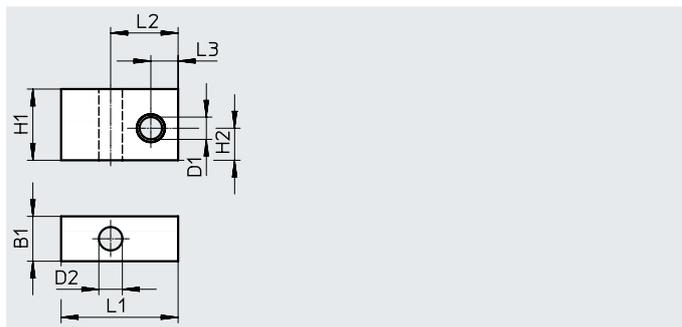
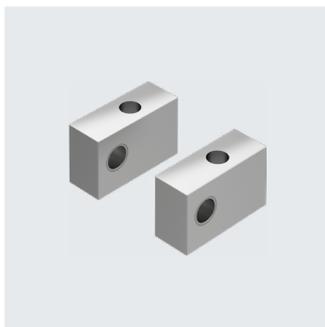
For rod clevis	B1	CB	CK	D1 $\varnothing$	E	H1	L1	L2	LE	TG	Part no.	Type
DARC-U8C/-U10/-U516	0.93	0.39	0.187	0.144	1	0.71	0.78	0.16	0.56	0.75	<b>8106691</b>	<b>DAMS-C5-1/2"-D</b>
DARC-U38/-U12	1.63	0.75	0.375	0.196	1.75	1.37	1.34	0.22	0.94	1.38	<b>8106692</b>	<b>DAMS-C5-1 1/2"-D</b>
DARC-U58/-U34	2.42	1	0.625	0.257	2.5	2.1	1.81	0.25	1.25	2	<b>8106693</b>	<b>DAMS-C5-3"-D</b>

## Accessories

### Trunnion support DAMC-C5-...-M

Material:  
Mounting: Wrought aluminium alloy  
Bearing: Bronze

RoHS-compliant  
Contains paint-wetting impairment  
substances

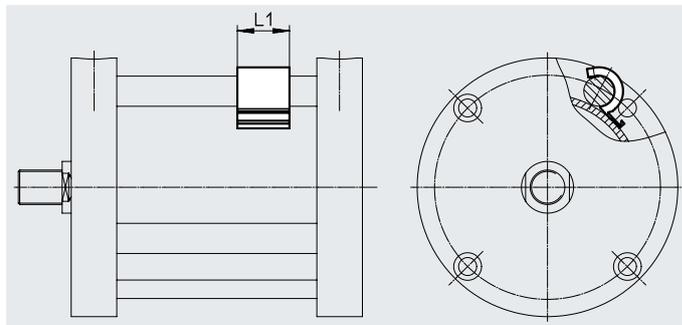


Dimensions and ordering data										
For Ø [in]	B1	D1 Ø	D2 Ø	H1	H2	L1	L2	L3	Part no.	Type
3/4	0.31	0.126	0.196	0.63	0.3	1.12	0.56	0.22	8106696	DAMC-C5-3/4"-M
1 1/16; 1 1/2; 2	0.5	0.251	0.2656	0.88	0.38	1.5	0.81	0.31	8106697	DAMC-C5-1 1/16"-M
2 1/2; 3	0.63	0.33	0.328	1	0.45	1.63	0.94	0.38	8106698	DAMC-C5-2 1/2"-M
4	0.75	0.376	0.39	1.25	0.55	1.88	1.06	0.44	8106699	DAMC-C5-4"-M

### Sensor bracket SAMH-NC5

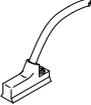
Material:  
Mounting: Wrought aluminium alloy  
Screw: Galvanised steel

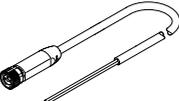
RoHS-compliant  
Contains paint-wetting impairment  
substances

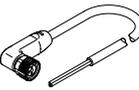


Dimensions and ordering data				
For Ø [in]	L1	Part no.	Type	
1/2	0.75	8106925	SAMH-NC5-1/2"-Q	
3/4	0.75	8106926	SAMH-NC5-3/4"-Q	
1 1/16	0.75	8106927	SAMH-NC5-1 1/16"-Q	
1 1/2; 2	0.75	8106928	SAMH-NC5-1 1/2"-Q	
2 1/2; 3	0.75	8106929	SAMH-NC5-2 1/2"-Q	
4	0.75	8106930	SAMH-NC5-4"-Q	
3/4; 1 1/16; 1 1/2; 2	0.75	8106931	SAMH-NC5-3/4"-QX	
2 1/2; 3	0.75	8106932	SAMH-NC5-2 1/2"-QX	
4	0.75	8106933	SAMH-NC5-4"-QX	

## Accessories

Ordering data – Proximity switch dovetail design, magneto-resistive						Datasheets → Internet: sdbf
	For Ø	Type of mounting	Switching output	Electrical connection	Part no.	Type
<b>N/O</b>						
	1/2 ... 4	Inserted into the slot length-wise	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

Connecting cables NEBA, straight, M8 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

Connecting cables NEBA, angled, M8 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Ordering data						
	For Ø [in]	Description	Part no.	Type	Datasheets → Internet: grla	
<b>One-way flow control valve GRLA</b>						
	1/2 ... 3/4	For regulating speed			564842	GRLA-10-32-UNF-QB-1/4-U
	1 1/16 ... 2				534659	GRLA-1/8-QB-5/16-U
	2 1/2				534662	GRLA-1/4-QB-5/16-U
	3				534663	GRLA-1/4-QB-3/8-U
	4				534666	GRLA-3/8-QB-3/8-U

Push-in fitting, straight						
	For Ø [in]	Description	Part no.	Type	Datasheets → Internet: qb	
	1/2 ... 3/4	For connecting tubing with standard O.D.			533269	QB-10-32-UNF-1/4-U
	1 1/16 ... 2				567773	QB-1/8-3/8-U
	2 1/2				533278	QB-1/4-3/8-U
	3				567771	QB-1/4-1/2-U
	4				533281	QB-3/8-3/8-U

Push-in fitting, angled						
	For Ø [in]	Description	Part no.	Type	Datasheets → Internet: qbl	
	1/2 ... 3/4	For connecting tubing with standard O.D.			533288	QBL-10-32-UNF-1/4-U
	1 1/16 ... 2				567777	QBL-1/8-3/8-U
	2 1/2				533297	QBL-1/4-3/8-U
	3				567775	QBL-1/4-1/2-U
	4				533300	QBL-3/8-3/8-U

## Accessories

Ordering data		Description	Part no.	Type
For Ø				
<b>Assembly tool</b>				
		For fixing the piston rod in place when mounting piston rod attachments	8106809	DADG-WF
<b>Seal set</b>				
	1 1/16	Spare parts	8106867	DADG-SK-C5-1 1/16"
			8106873	DADG-SK-C5-1 1/16"-A1
			8141164	DADG-SK-C5-1 1/16"-T3
			8141176	DADG-SK-C5-QP-1 1/16"
			8141179	DADG-SK-C5-QP-1 1/16"-A1
			8141182	DADG-SK-C5-QP-1 1/16"-T3
			8141197	DADG-SK-C5-QP-1 1/16"-QX
			8141200	DADG-SK-C5-QP-1 1/16"-QXA1
			8141185	DADG-SK-C5-1 1/16"-QX
			8141191	DADG-SK-C5-1 1/16"-QXA1
			8141170	DADG-SK-C5-L-1 1/16"
	1 1/2		8106868	DADG-SK-C5-1 1/2"
			8106874	DADG-SK-C5-1 1/2"-A1
			8141165	DADG-SK-C5-1 1/2"-T3
			8141177	DADG-SK-C5-QP-1 1/2"
			8141180	DADG-SK-C5-QP-1 1/2"-A1
			8141183	DADG-SK-C5-QP-1 1/2"-T3
			8141198	DADG-SK-C5-QP-1 1/2"-QX
			8141201	DADG-SK-C5-QP-1 1/2"-QXA1
			8141186	DADG-SK-C5-1 1/2"-QX
			8141192	DADG-SK-C5-1 1/2"-QXA1
			8141171	DADG-SK-C5-L-1 1/2"
	2		8106869	DADG-SK-C5-2"
			8106875	DADG-SK-C5-2"-A1
			8141166	DADG-SK-C5-2"-T3
			8141178	DADG-SK-C5-QP-2"
			8141181	DADG-SK-C5-QP-2"-A1
			8141184	DADG-SK-C5-QP-2"-T3
			8141199	DADG-SK-C5-QP-2"-QX
			8141202	DADG-SK-C5-QP-2"-QXA1
			8141187	DADG-SK-C5-2"-QX
			8141193	DADG-SK-C5-2"-QXA1
			8141172	DADG-SK-C5-L-2"
	2 1/2		8106870	DADG-SK-C5-2 1/2"
			8106876	DADG-SK-C5-2 1/2"-A1
			8141167	DADG-SK-C5-2 1/2"-T3
			8141188	DADG-SK-C5-2 1/2"-QX
			8141194	DADG-SK-C5-2 1/2"-QXA1
			8141173	DADG-SK-C5-L-2 1/2"
	3		8106871	DADG-SK-C5-3"
			8106877	DADG-SK-C5-3"-A1
			8141168	DADG-SK-C5-3"-T3
			8141189	DADG-SK-C5-3"-QX
			8141195	DADG-SK-C5-3"-QXA1
			8141174	DADG-SK-C5-L-3"
	4		8106872	DADG-SK-C5-4"
			8106878	DADG-SK-C5-4"-A1
			8141169	DADG-SK-C5-4"-T3
			8141190	DADG-SK-C5-4"-QX
			8141196	DADG-SK-C5-4"-QXA1
			8141175	DADG-SK-C5-L-4"