Compact cylinders DPCB

Key features

At a glance

- Compact design permits use in tight spaces
- Double-acting and single-acting versions
- Piston rod with external and internal thread
- With and without anti-twist protection
- With and without cushioning
- Simple assembly with suitable mounting options
- End cap available in round, square and reinforced designs

System of units

[N] Inch

Anti-twist protection

[QP] With double piston rod

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

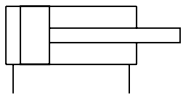
Running characteristics

[L] Low friction

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

Function

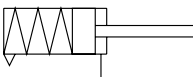
[ ] Double-acting



- The cylinder has two pneumatic connections which can be pressurized with compressed air one after the other
- When the rear connection is pressurized with compressed air, the cylinder advances. When the front connection is pressurized with compressed air, the cylinder retracts.

Function

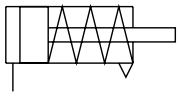
[P] Single-acting, pulling
(piston rod advanced by spring force)



- The cylinder has one pneumatic connection. The piston rod is advanced in its initial position
- When the connection is pressurized 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 pressurized with compressed air, the cylinder advances. It is retracted by a spring

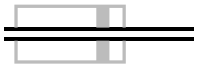
Piston rod type

[ ] At one end

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

Piston rod type

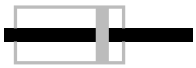
[H] Through, hollow piston rod



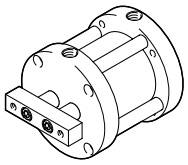
- The piston rod can be used for connection at both ends of the cylinder
- The piston rod is hollow inside, meaning it can be used to carry vacuum or compressed air
- Identical forces in forward and return stroke

Key features

Piston rod type
[T] Through piston rod

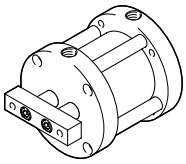


Piston rod design
[ ] One end plate

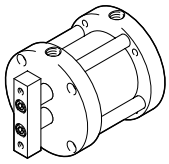


- The piston rod can be used for connection at both ends of the cylinder
- Identical forces in forward and return stroke
- The piston rod has an external or internal thread at both ends

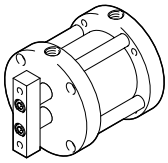
Piston rod design
[J1] One end plate with recess and through-hole



Piston rod design
[J90] One end plate, rotated 90°



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



Piston rod thread type
[ ] External thread

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

Piston rod thread type
[F] Internal thread

Piston rod thread type
[N] No thread

Supply port
[ ] Lateral

- The supply ports are both located on the same side

Supply port
[P90] Rotated 90°

- The front supply port is rotated 90° in a clockwise direction in relation to the rear supply port

Supply port
[P180] Rotated 180°

- The front supply port is rotated 180° in a clockwise direction in relation to the rear supply port

Supply port
[P270] Rotated 270°

- The front supply port is rotated 270° in a clockwise direction in relation to the rear supply port

Key features

Cap geometry
[ ] Round

- Both end caps have a round shape

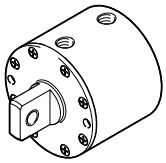
Cap geometry
[QX] Square

- Both end caps have a square shape

End cap
[V] Reinforced

- The reinforced end cap serves to absorb higher impact forces of the piston rod

Type of mounting
[U] With swiveling 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 be larger than the screw head diameter for this purpose

Type of mounting
[FT] Flange thread, front

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

Type of mounting
[MB]/[MF]/[MR] Mounting thread

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

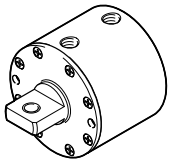
Type of mounting
[Y2] Trunnion flange mounting position, front

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

Type of mounting
[Y3] Trunnion flange mounting position, rear

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

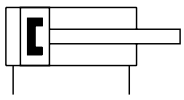
Type of mounting
[U90] With swiveling rod eye, rotated 90°



Cushioning
[P]/[P2]/[P3] Flexible cushioning rings/pads

- The actuator is fitted with polymer flexible end-position cushioning
- No adjustment required
- Saves time

Position sensing
[A] For proximity switch



Scraper variant
[A1] Increased chemical resistance

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

Scraper variant
[A4] Scraper made of NBR

- An additional scraper made of NBR stops dirt particles from getting into the actuator

Key features

Piston rod extension
[NE] 0.001...6"

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

Sensor mounting, external
[R] Mounting rail for sensors

- A mounting rail is fitted on the cylinder to mount sensors externally
- The mounting rail is located as standard on the same side as the rear supply port

Sensor mounting, external
[R90] Mounting rail for sensors, rotated 90°

- A mounting rail is fitted on the cylinder to mount sensors externally
- In this design, the mounting rail is rotated 90° in a clockwise direction in relation to the rear supply port

Sensor mounting, external
[R180] Mounting rail for sensors, rotated 180°

- A mounting rail is fitted on the cylinder to mount sensors externally
- In this design, the mounting rail is rotated 180° in a clockwise direction in relation to the rear supply port

Sensor mounting, external
[R270] Mounting rail for sensors, rotated 270°

- A mounting rail is fitted on the cylinder to mount sensors externally
- In this design, the mounting rail is rotated 270° in a clockwise direction in relation to the rear supply port

Product range overview

Function	Type	Piston diameter	Stroke	System of units	Anti-twist protection	Running characteristics	Piston rod type		Piston rod design		
		[in]	[in]	N	QP	L	H	T	J1	J90	J91
Double-acting	**DPCB**										
	DPCB	1/2	1/8 ... 4	■	–	■	■	■	■	■	■
		3/4		■	■	■	■	■	■	■	■
		1 1/16		■	■	■	■	■	■	■	■
		1 1/2		■	■	■	■	■	■	■	■
		2		■	■	■	■	■	■	■	■
		2 1/2		■	–	■	■	■	■	■	■
		3		■	–	■	■	■	■	■	■
		4		■	–	■	■	■	■	■	■
Single-acting	**DPCB-...-P (pulling, piston rod advanced by spring force)**										
	DPCB-...-P	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)										
	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 diameter	Stroke	Piston rod thread type		Supply port			Cap geometry	End cap
		[in]	[in]	F	N	P90	P180	P270	QX	V
Double-acting	DPCB- ...									
		1/2	1/8 ... 4	■	■	–	■	–	–	■
		3/4		■	■	■	■	■	■	■
		1 1/16		■	■	■	■	■	■	■
		1 1/2		■	■	■	■	■	■	■
		2		■	■	■	■	■	■	■
		2 1/2		■	■	■	■	■	■	■
		3		■	■	■	■	■	■	■
		4		■	■	■	■	■	■	■
Single-acting	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 diameter	Stroke	Type of mounting										
		[in]	[in]	U	CB	CF	CR	FT	MB	MF	MR	Y2	Y3	U90
Double-acting	DPCB- ...													
		1/2	1/8 ... 4	■	■	■	■	■	■	■	■	–	–	■
		3/4		■	■	■	■	■	■	■	■	■	■	■
		1 1/16		■	■	■	■	■	■	■	■	■	■	■
		1 1/2		■	■	■	■	■	■	■	■	■	■	■
		2		■	■	■	■	■	■	■	■	■	■	■
		2 1/2		■	■	■	■	■	■	■	■	■	■	■
		3		■	■	■	■	■	■	■	■	■	■	■
		4		■	■	■	■	■	■	■	■	■	■	■
Single-acting	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 diameter	Stroke	Cushioning				Position sensing	Scraper variant		Piston rod extension
		[in]	[in]	N	P	P2	P3	A	A1	A4	-...NE
Double-acting	DPCB- ...										
		1/2	1/8 ... 4	■	■	■	■	■	■	■	■
		3/4		■	■	■	■	■	■	■	■
		1 1/16		■	■	■	■	■	■	■	■
		1 1/2		■	■	■	■	■	■	■	■
		2		■	■	■	■	■	■	■	■
		2 1/2		■	■	■	■	■	■	■	■
		3		■	■	■	■	■	■	■	■
		4		■	■	■	■	■	■	■	■
Single-acting	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 diameter	Stroke	Piston rod thread												
		[in]	[in]	U10	U12	U34	U38	U58	U8C	U10C	U12C	U34C	U38C	U516	U58C	U516C
Double-acting	DPCB- ...															
		1/2	1/8 ... 4	–	–	–	–	–	■	–	–	–	–	–	–	–
		3/4		■	–	–	–	–	–	■	–	–	–	–	–	–
		1 1/16		–	–	–	–	–	–	–	–	–	–	■	–	■
		1 1/2		–	–	–	■	–	–	–	–	–	■	–	–	–
		2		–	■	–	–	–	–	–	■	–	–	–	–	–
		2 1/2		–	■	–	–	–	–	–	■	–	–	–	–	–
		3		–	–	–	–	■	–	–	–	–	–	–	■	–
		4		–	–	■	–	–	–	–	–	■	–	–	–	–
Single-acting	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 diameter	Stroke	Sensor mounting, external			
		[in]	[in]	R	R90	R180	R270
Double-acting	DPCB- ...						
		1/2	1/8 ... 4	■	■	■	–
		3/4		■	■	■	■
		1 1/16		■	■	■	■
		1 1/2		■	■	■	■
		2		■	■	■	■
		2 1/2		■	■	■	■
		3		■	■	■	■
		4		■	■	■	■
Single-acting	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”	21/2”	
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”	31/2”	
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	

Type codes

016	Position sensing	
	None	
A	For proximity sensor	

017	Temperature range	
	Standard	
T3	-40 ... +176 °F	

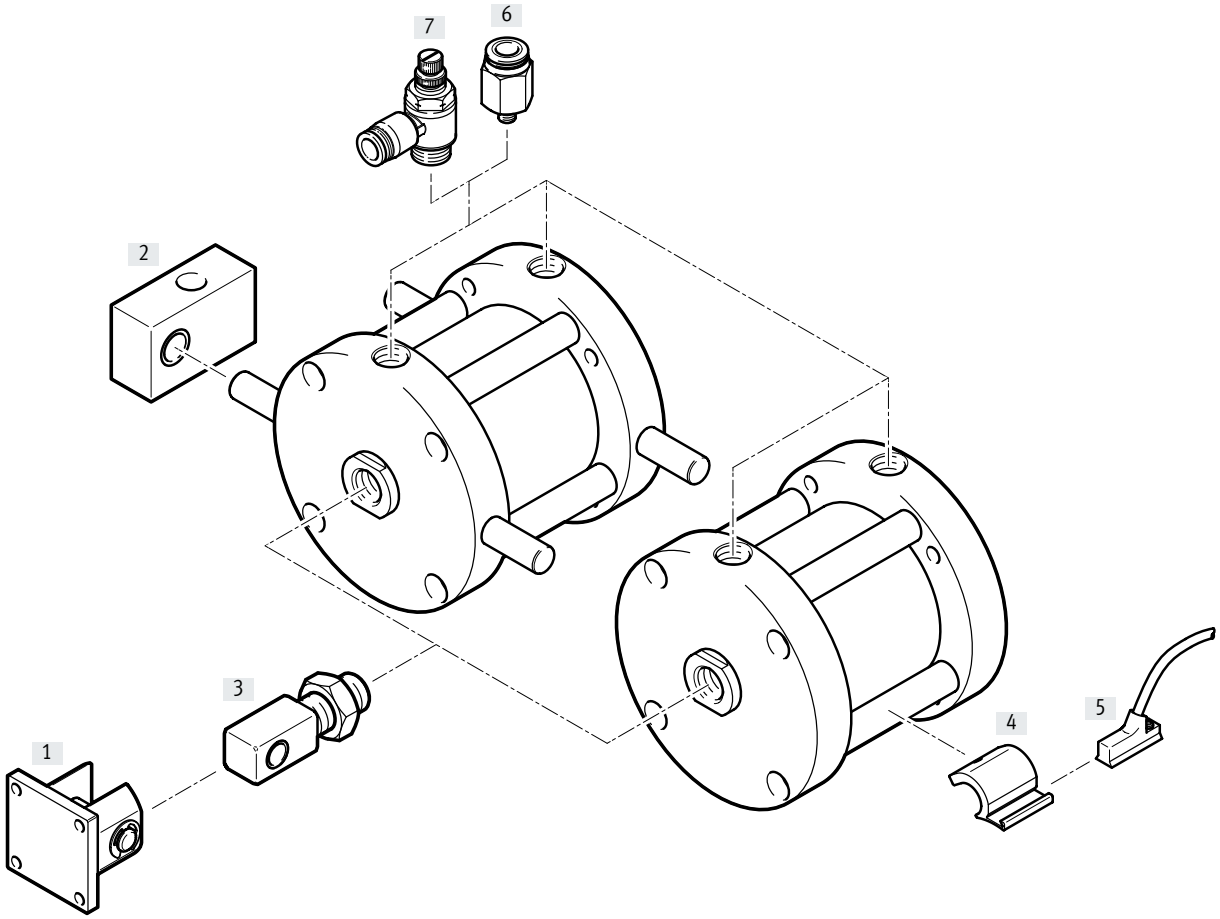
018	Scraper variant	
	None	
A1	Increased chemical resistance	
A4	Scraper made of NBR	

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

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

021	Sensor mounting, external	
	None	
R	Mounting rail for sensors	
R90	Mounting rail for sensors, rotated 90°	
R180	Mounting rail for sensors, rotated 180°	
R270	Mounting rail for sensors, rotated 270°	

Peripherals overview



Peripherals overview

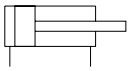
Accessories

		Description	→ Page/Internet
[1]	Clevis flange DAMS-C5-...-D	For connecting to rod clevis DARC	146
[2]	Trunnion support DAMC-C5-...-M	For retaining trunnion flange mountings	147
[3]	Rod clevis DARC-C5-...-M	Permits swivel motion in one plane	146
[4]	Sensor bracket SAMH-NC5	For mounting proximity switch SDBF-FBS	147
[5]	Proximity switch SDBF-FBS	Can be inserted in dovetail slot	148
[6]	Push-in fitting QB/QBL	For connecting compressed air tubing with standard O.D.	148
[7]	Check valve GRLA	For regulating velocity	148

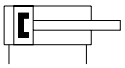
Datasheet

Function

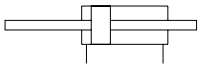
DPCB



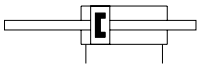
DPCB-...-A



DPCB-...-T



DPCB-...-T-...-A



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

General technical data Piston diameter	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Design	Piston							
	Piston rod							
	Cylinder barrel							
Mode of operation	Double-acting							
Pneumatic connection with internal 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	External thread							
	Internal thread							
Anti-twist protection/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]	Flexible cushioning rings/pads at both ends							
[P2]	Flexible cushioning rings/pads at front							
[P3]	Flexible cushioning rings/pads at rear							
Position sensing	For proximity switch							
Type of mounting								
[U]	With swiveling rod eye on end cap							
[U90]	With swiveling rod eye on end cap rotated 90°							
[CB]	With through-hole on both sides							
[CF]	With through-hole on bearing cap							
[CR]	With through-hole on end cap							
[Y2]	With trunnion flange mounting on bearing cap							
[Y3]	With trunnion flange mounting on end cap							
[FT]	With threaded flange on bearing cap							
[MB]	Threaded direct mounting on both sides							
[MF]	Threaded direct mounting on bearing cap							
[MR]	Threaded direct mounting on end cap							
	With accessories							
Mounting position	Any							

Datasheet

Operating and environmental conditions									
Piston diameter		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]							
Information on operating and pilot media		Lubricated operation possible (in which case lubricated operation will always be required)							
Ambient temperature[1]	[°F]	-25 ... +221							

1) Note operating range of proximity switches

Forces [lbs] at 80 psi								
Piston diameter	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)[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)

Forces with variant QP (with double piston rod) [lbs]								
Piston diameter	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)[1]	–	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)

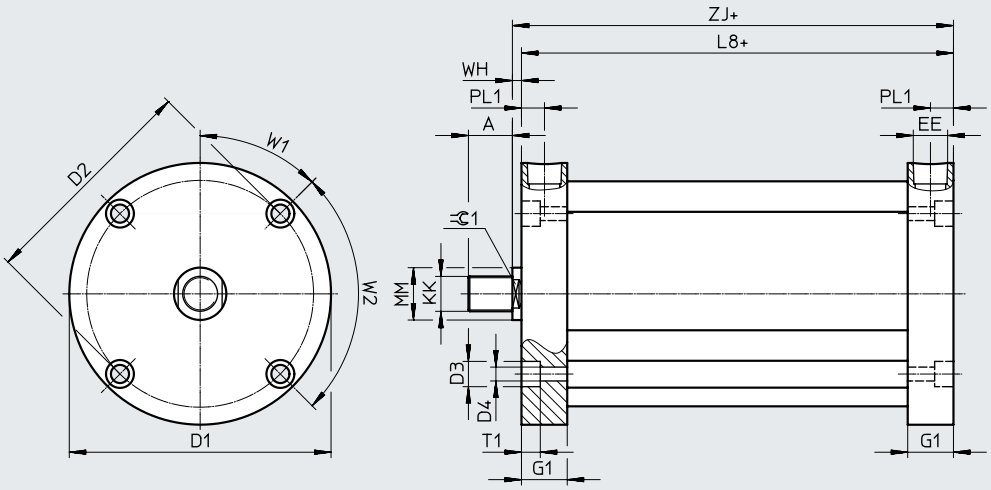
Materials	
Cover	Wrought aluminum alloy
Dynamic seals	NBR
	FPM
Piston rod	High-alloy stainless steel, hard chrome plated
Cylinder barrel	Reinforced composite material
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

Weight [lb]								
Piston diameter	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 diameter 1/2 Download CAD data ➔ www.festo.com

[ ] External thread



+ = plus stroke length

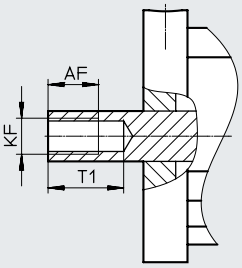
Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK
1/8...4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

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

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

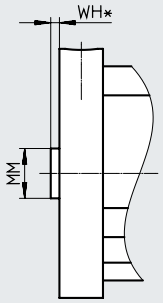
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



+ = plus stroke length

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

Note

Piston ø 1/2 only with coarse thread UNC

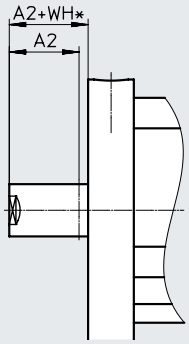
Piston ø 3/4...4 with fine thread UNF or coarse thread UNC

Datasheet

Dimensions – piston diameter 1/2

Download CAD data ➔ www.festo.com

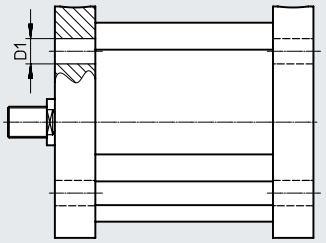
[NE] Piston rod extension



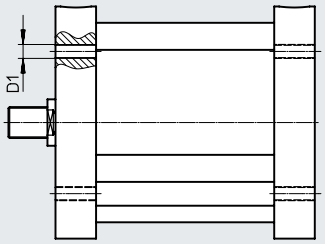
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB

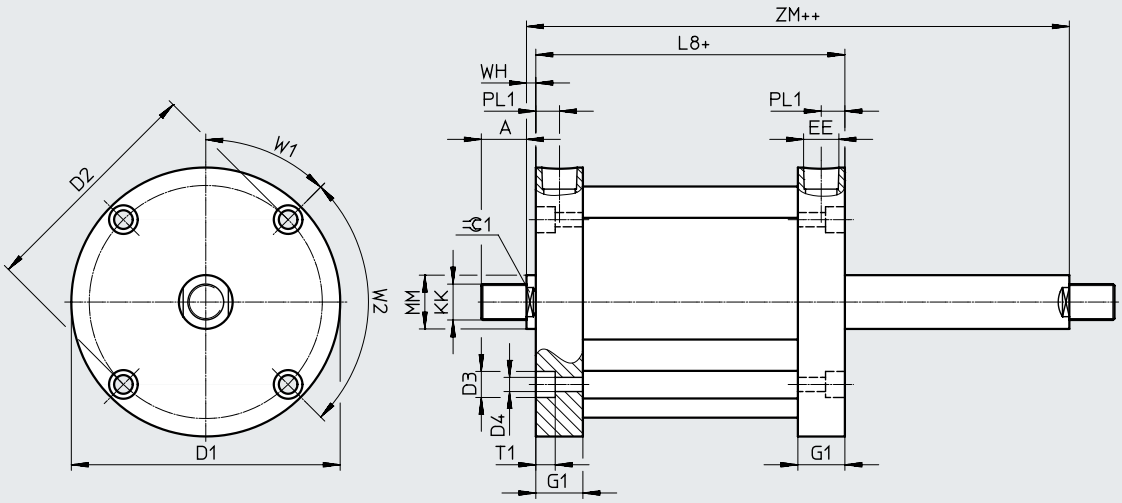


Stroke [in]	A2		WH	D1 ø	D1 ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.17	4-40 UNC

Dimensions – piston diameter 1/2

Download CAD data ➔ 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	0.38	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	ZM	⫩ 1
1/8...4	0.69	0.25	0.14	0.13	90°	–	0.13	0.95	0.22

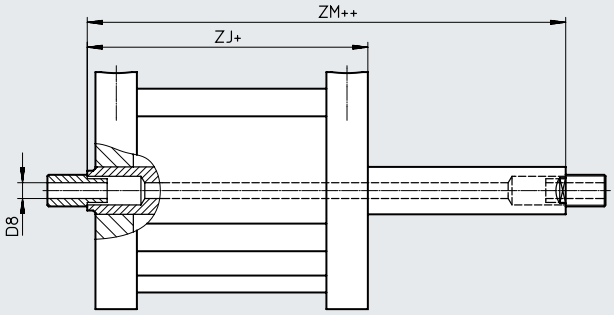
Datasheet

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

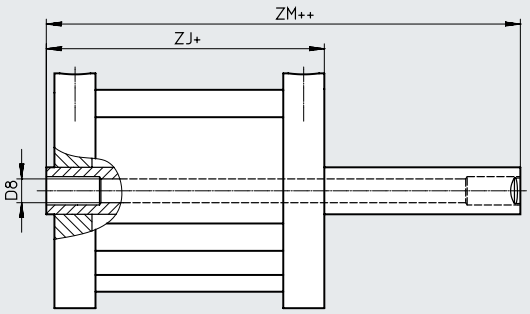
[H] Through, hollow piston rod

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

DPCB-...-H



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



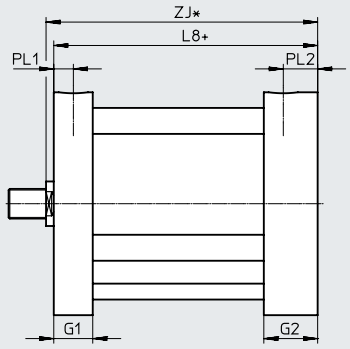
+ = plus stroke length

++ = plus 2x stroke length

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

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

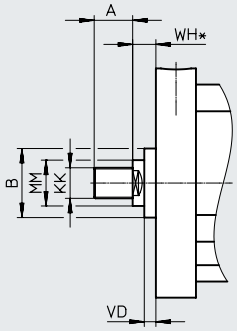


*/+ = plus stroke length

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 diameter 1/2 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR



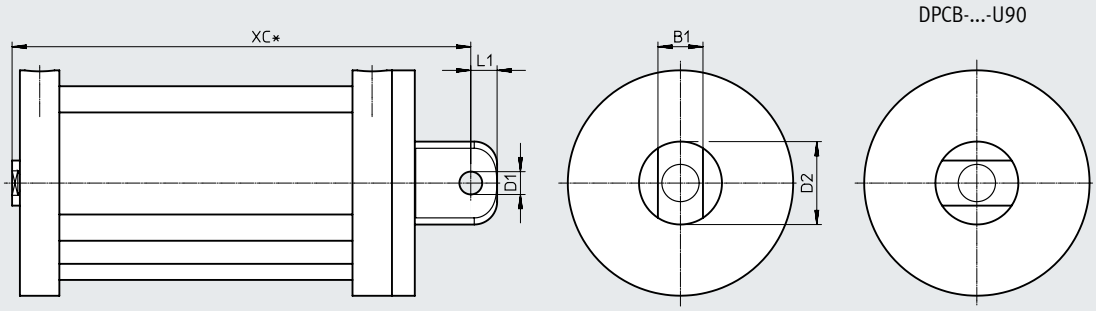
Stroke [in]	A	B	KK	MM Ø	WH	VD
1/8...4	0.38	0.56	8-24 UNC	0.25	0.38	0.19

Datasheet

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°

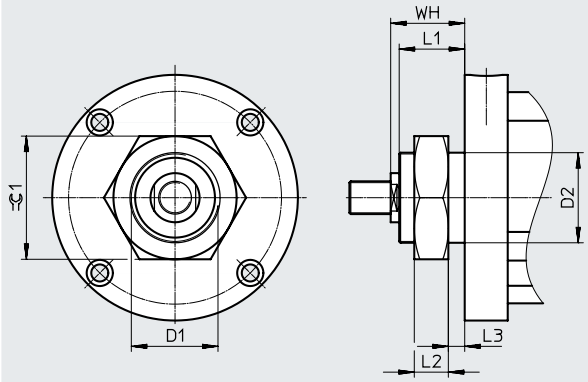


+ = plus stroke length

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

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

[FT] Flange thread, front

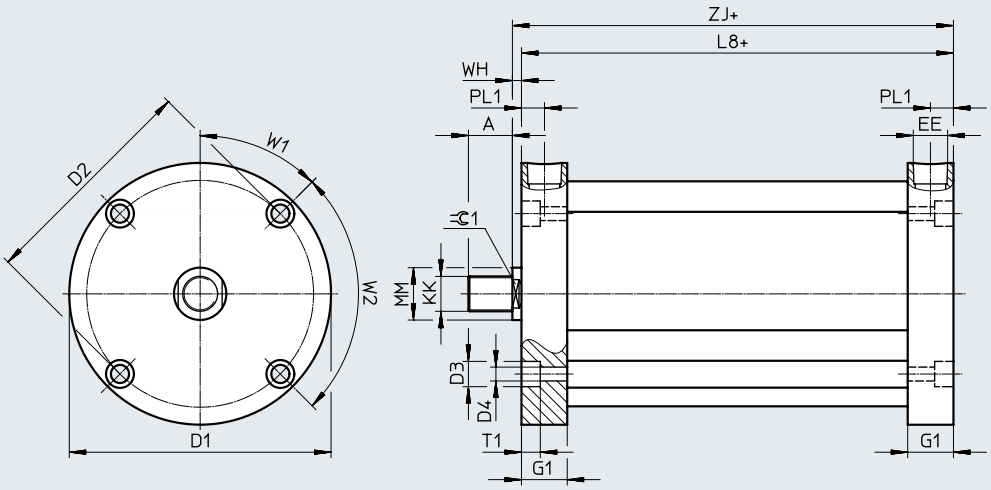


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

[ ] External thread



+ = plus stroke length

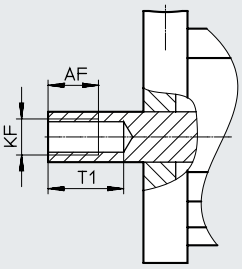
Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1/4	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
3/8	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
1/2	0.38	1.49	1.22	0.24	0.15	10-32 UNF	0.34	10-24 UNC	10-32 UNF
5/8...4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

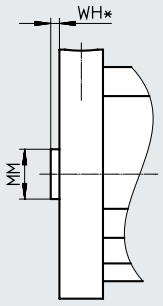
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



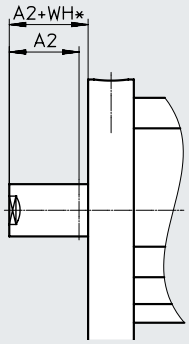
+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[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 diameter 3/4 Download CAD data ➔ www.festo.com

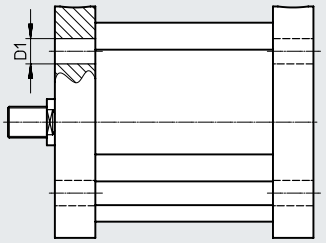
[NE] Piston rod extension



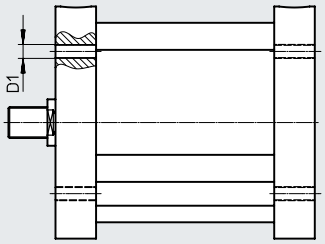
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



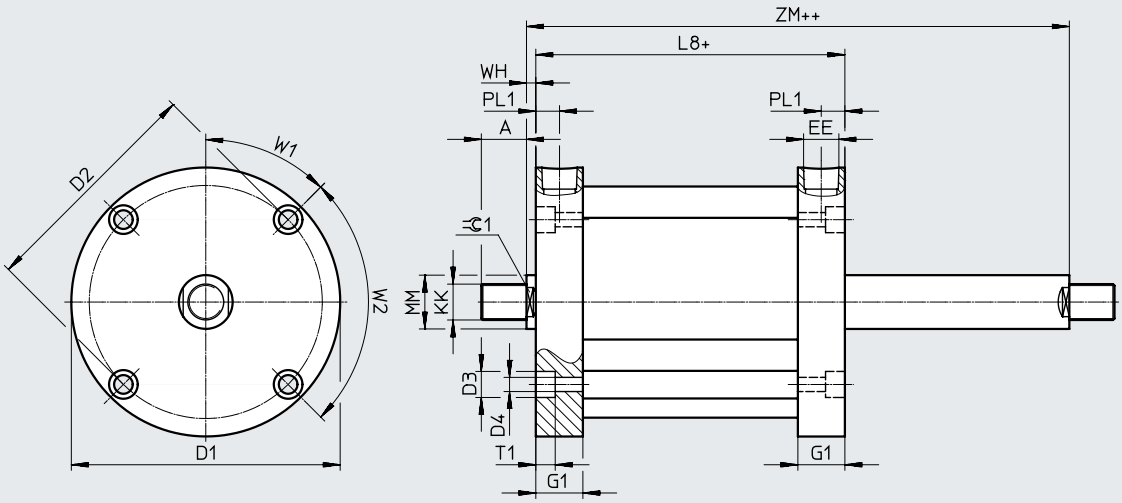
DPCB-...-MB



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

Dimensions – piston diameter 3/4 Download CAD data ➔ 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	0.38	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	ZM	⫩ 1
1/8...4	0.69	0.31	0.14	0.15	43°	90°	0.13	0.95	0.25

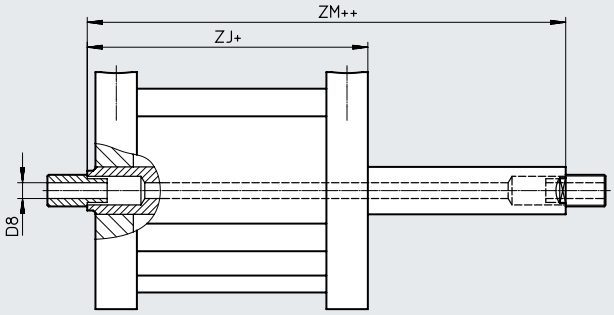
Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

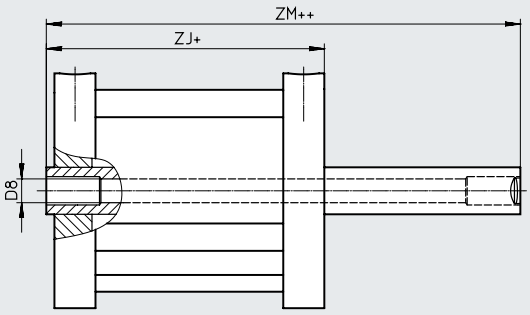
[H] Through, hollow piston rod

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

DPCB-...-H



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



+ = plus stroke length

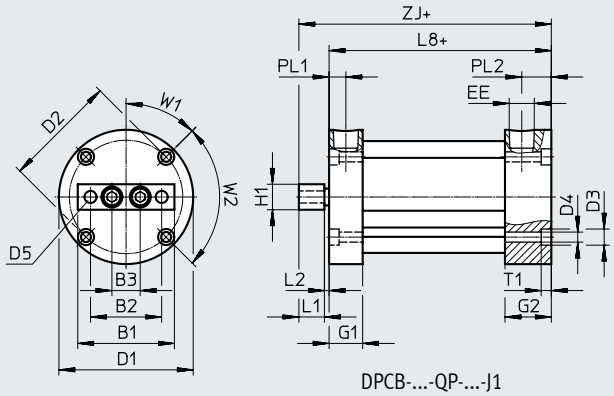
++ = plus 2x stroke length

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

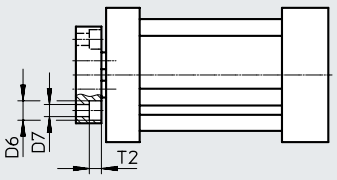
Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

[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 [J1]	D7 Ø [J1]	EE
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 [J1]	W1	W2	ZJ
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

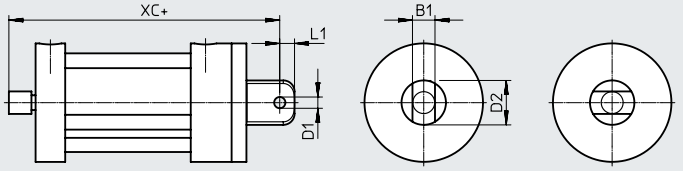
Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

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

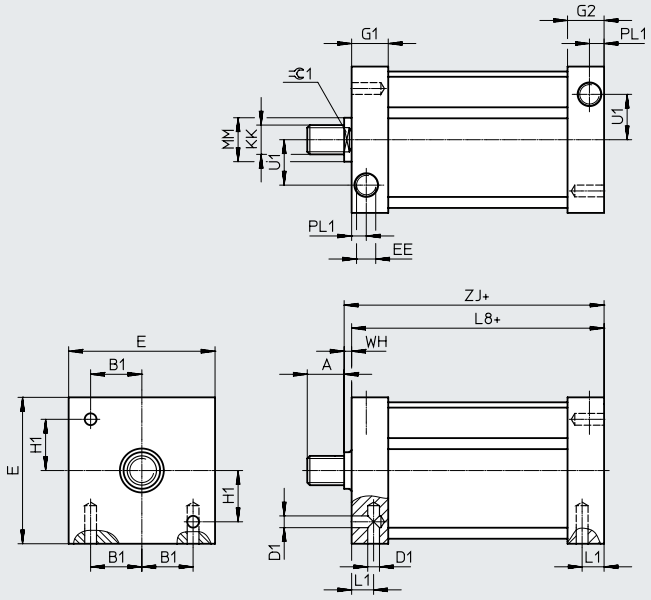
DPCB-...-QP-...-U DPCB-...-QP-...-U90



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

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

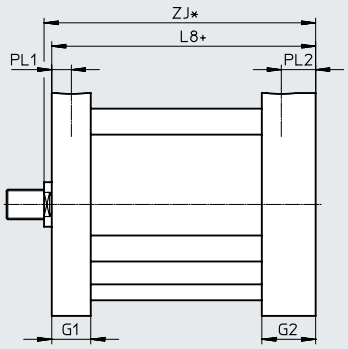
Stroke [in]	A	B1	D1 ⌀	E	EE	G1	G2	H1	KK	
1/8...4	0.38	0.38	6-32 UNC	1.25	10-32 UNF	0.42	0.42	0.38	10-24 UNC	10-32 UNF

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 diameter 3/4 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

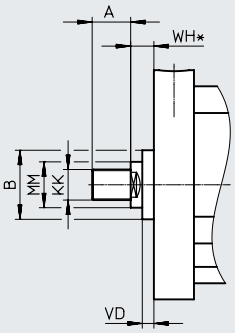


*/+ = plus stroke length

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 diameter 3/4 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

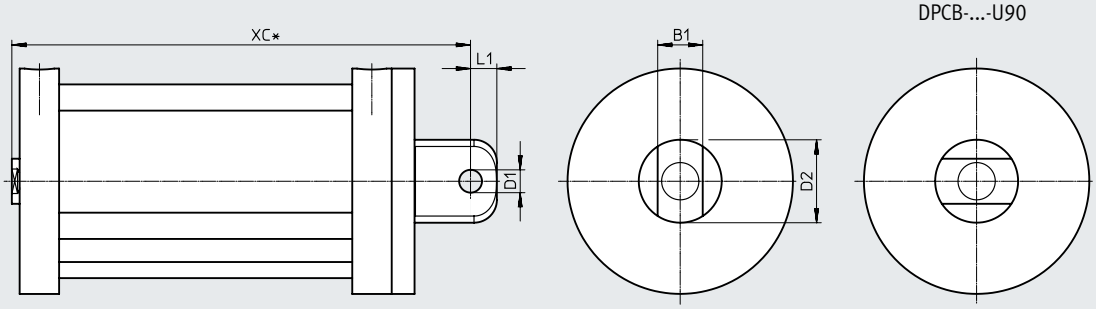


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.38	0.69	10-24 UNC	10-32 UNF	0.31	0.38	0.19

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



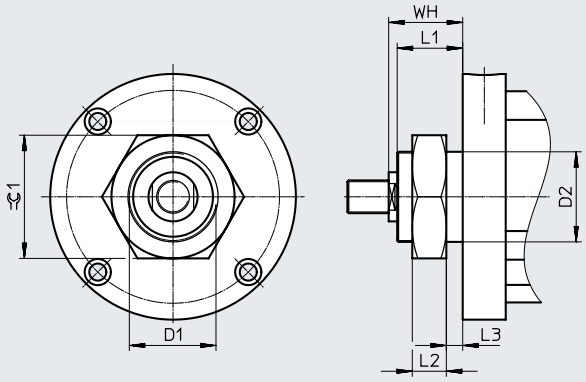
+ = plus stroke length

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

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

[FT] Flange thread, front

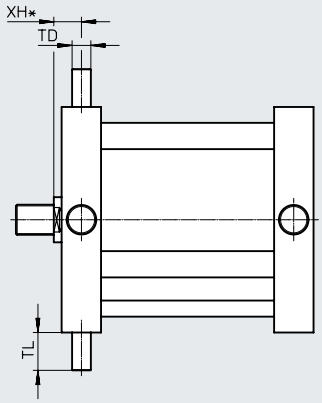


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	5/8-18 UNF-2A	0.62	0.38	0.25	0.6	0.51	0.75

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

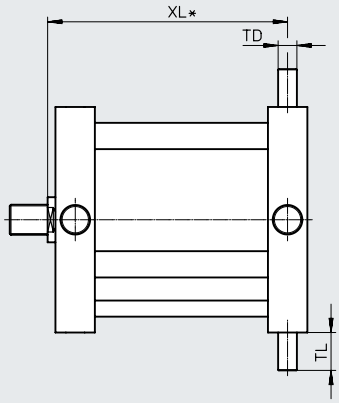
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



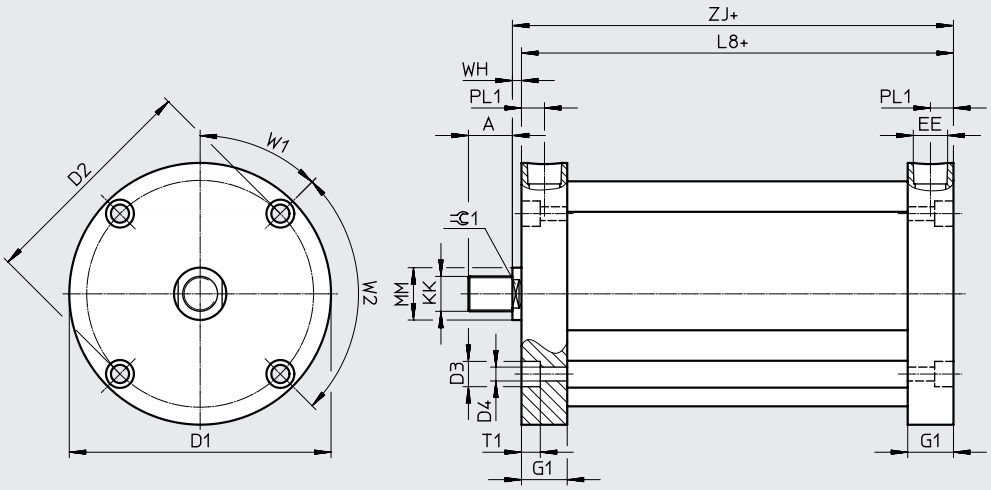
XL* = plus stroke length

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

Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[ ] External thread



+ = plus stroke length

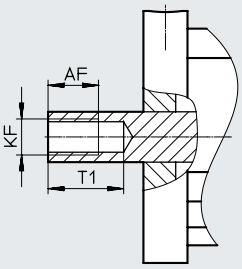
Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1/4	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
3/8	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
1/2	0.5	1.99	1.69	0.24	0.15	1/8 NPT	0.5	5/16-18 UNC	5/16-24 UNF
5/8...4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

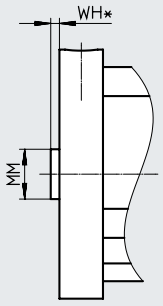
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



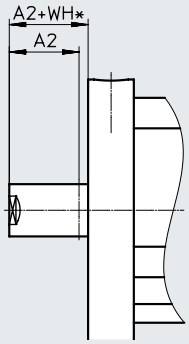
+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[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 diameter 1 1/16 Download CAD data ➔ www.festo.com

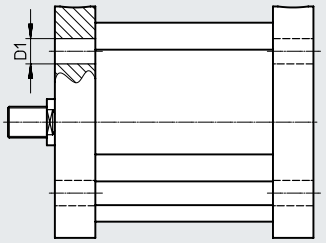
[NE] Piston rod extension



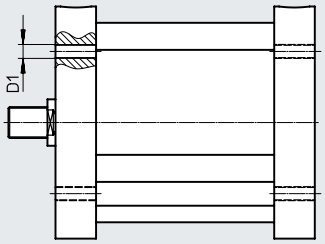
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



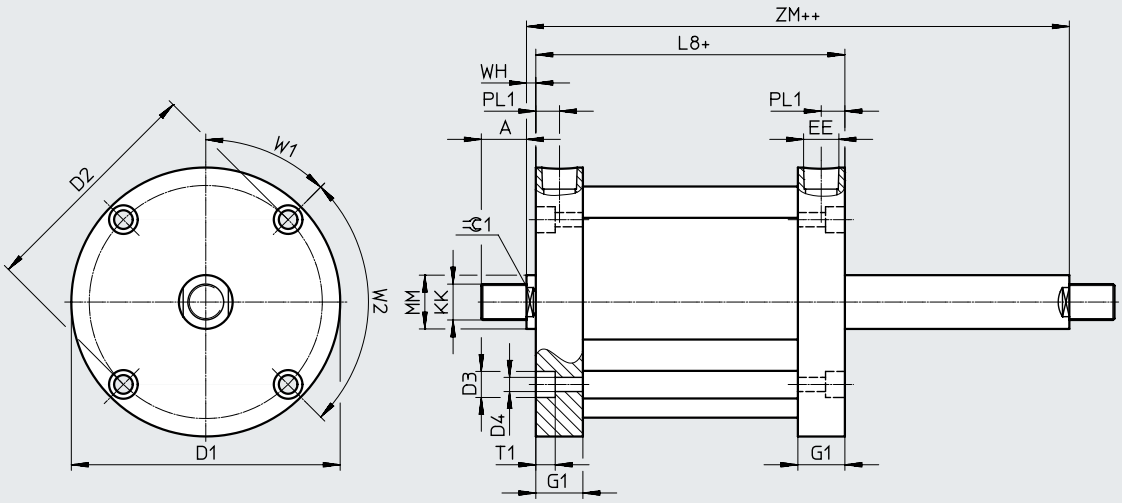
DPCB-...-MB



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 diameter 1 1/16 Download CAD data ➔ 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	0.5	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	ZM	⌀ 1
1/8...4	0.94	0.5	0.25	0.15	45°	90°	0.13	1.2	0.44

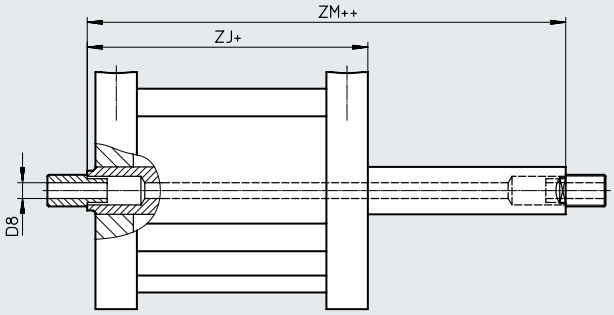
Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

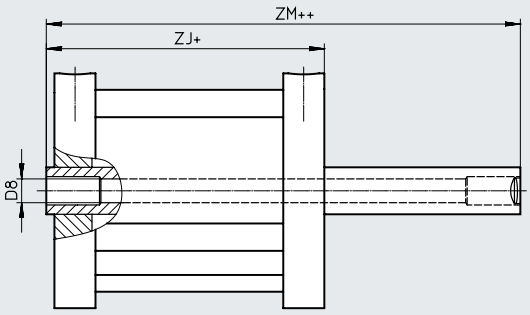
[H] Through, hollow piston rod

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

DPCB-...-H



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



+ = plus stroke length

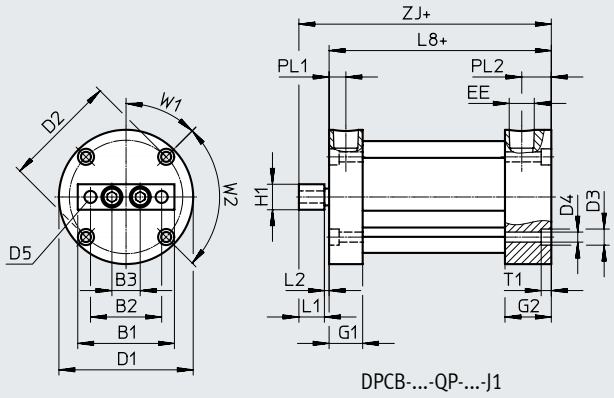
++ = plus 2x stroke length

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

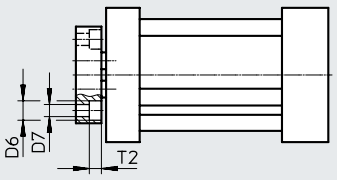
Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[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 [J1]	D7 Ø [J1]	EE
1/2...4	1.44	1.06	0.422	1.99	1.69	0.24	0.15	8-32 UNC	0.29	0.18	1/8 NPT

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

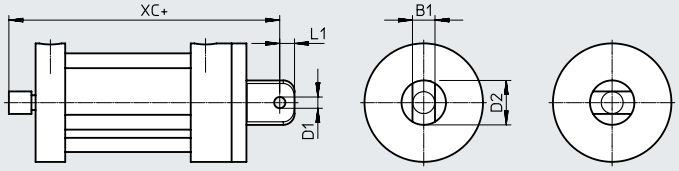
Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

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

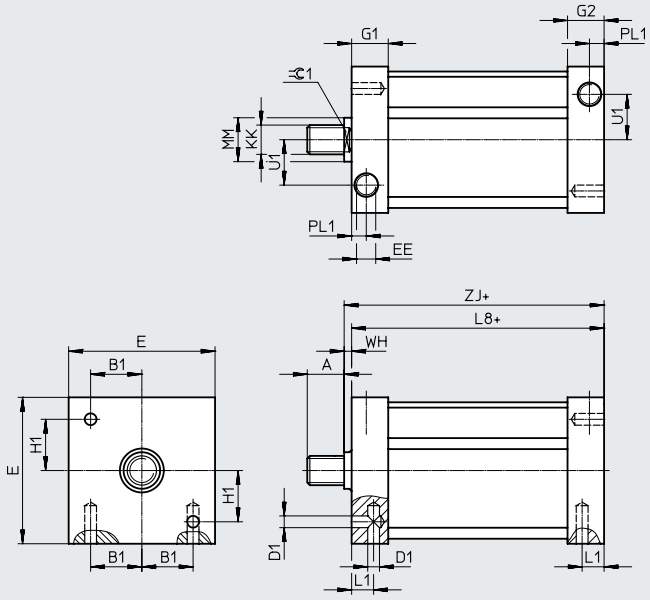
DPCB-...-QP-...-U DPCB-...-QP-...-U90



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

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

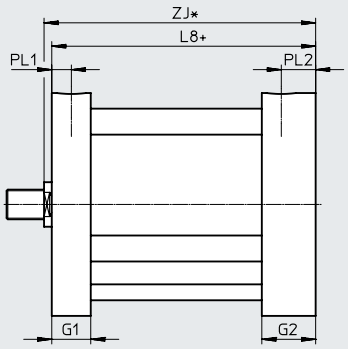
Stroke [in]	A	B1	D1 ⌀	E	EE	G1	G2	H1	KK	
1/8...4	0.5	0.5	8-32 UNC	1.5	1/8 NPT	0.58	0.5	0.5	5/16-18 UNC	5/16-24 UNF

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

Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

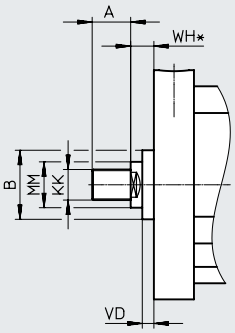


*/+ = plus stroke length

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 diameter 1 1/16 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

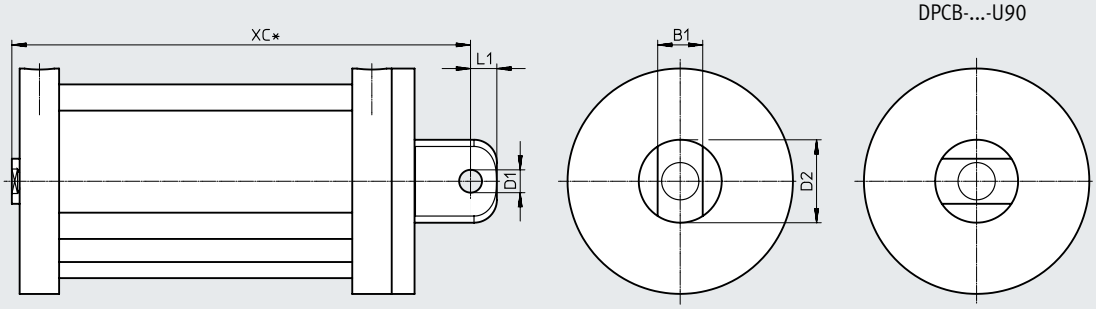


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.5	0.88	5/16-18 UNC	5/16-24 UNF	0.5	0.38	0.19

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



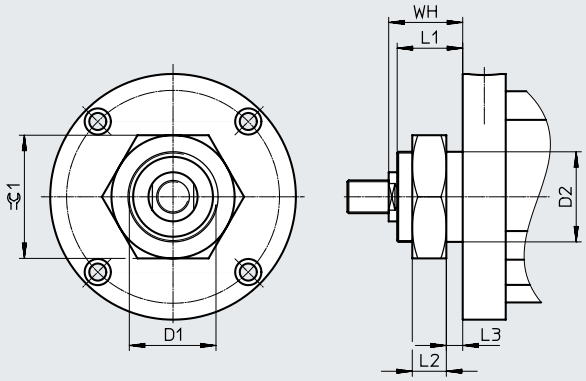
+ = plus stroke length

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

Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

[FT] Flange thread, front

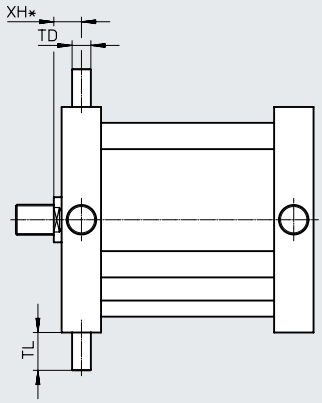


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1-14 UNF-2A	1	0.75	0.55	0.13	0.88	1.5

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

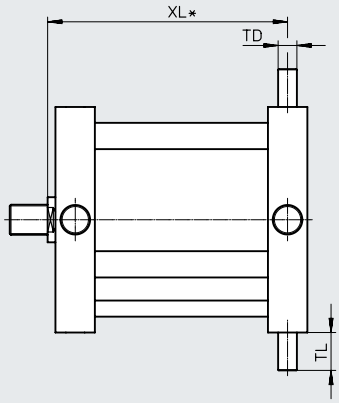
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



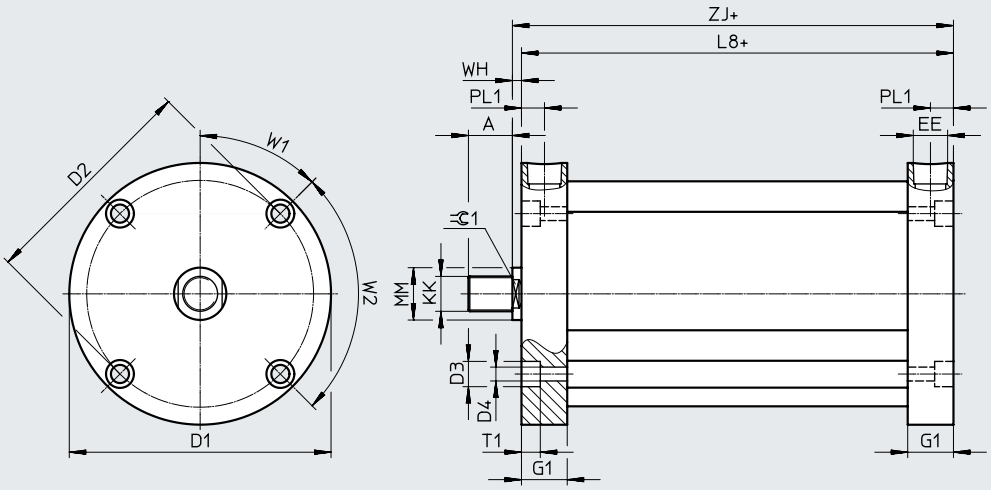
XL* = plus stroke length

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

Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

[ ] External thread



+ = plus stroke length

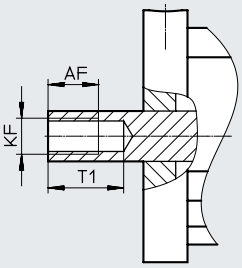
Stroke [in]	A	D1 ø	D2 ø	D3 ø	D4 ø	EE	G1	KK	
1/8...4	0.5	2.62	2.19	0.34	0.2	1/8 NPT	0.5	3/8-16 UNC	3/8-24 UNF

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 diameter 1 1/2 Download CAD data ➔ www.festo.com

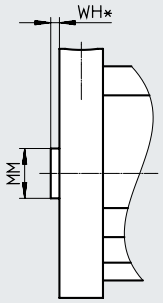
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



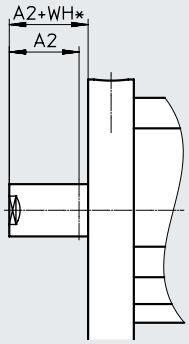
+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ø	WH
	[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 diameter 1 1/2 Download CAD data ➔ www.festo.com

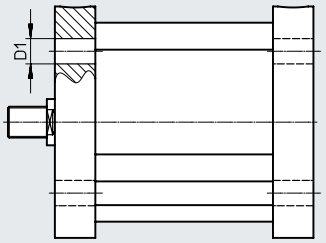
[NE] Piston rod extension



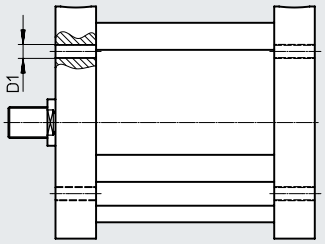
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



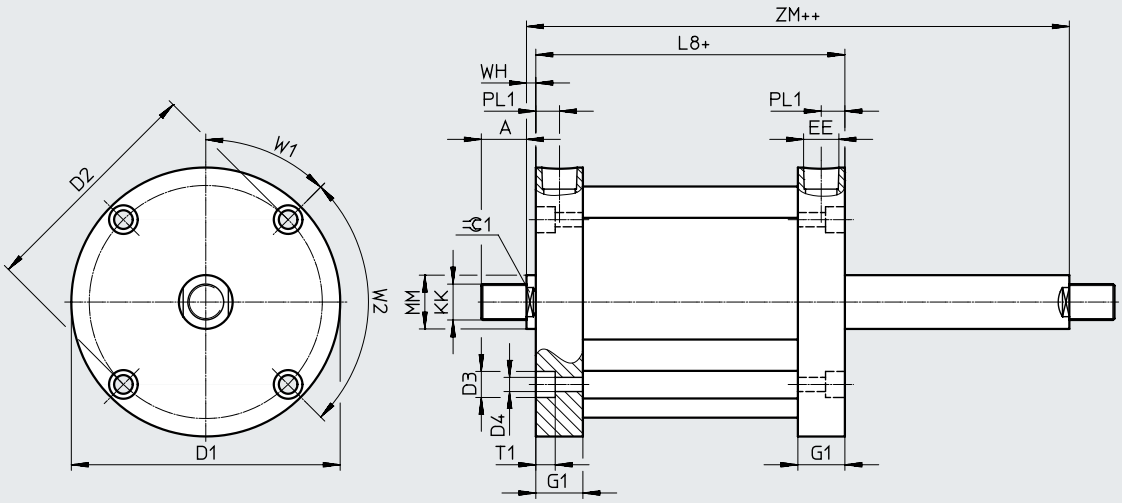
DPCB-...-MB



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

Dimensions – piston diameter 1 1/2 Download CAD data ➔ 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	0.5	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	ZM	⌀ 1
1/8...4	1	0.63	0.25	0.22	45°	90°	0.13	1.26	0.5

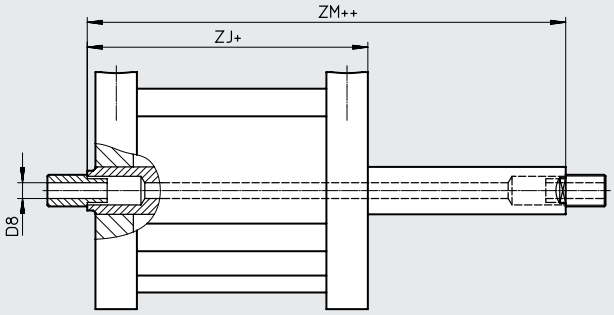
Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

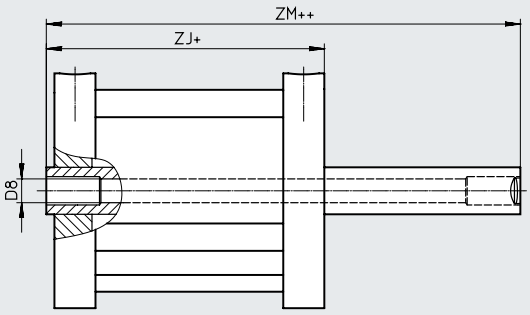
[H] Through, hollow piston rod

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

DPCB-...-H



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



+ = plus stroke length

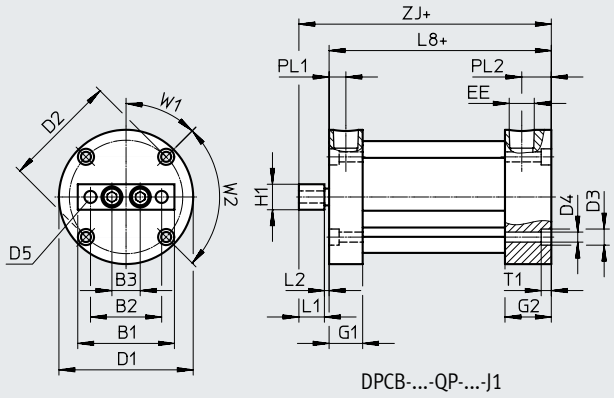
++ = plus 2x stroke length

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

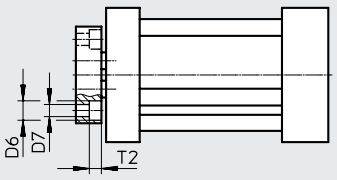
Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

[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 [J1]	D7 ø [J1]	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 [J1]	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

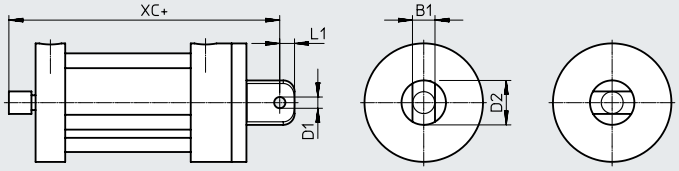
Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

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

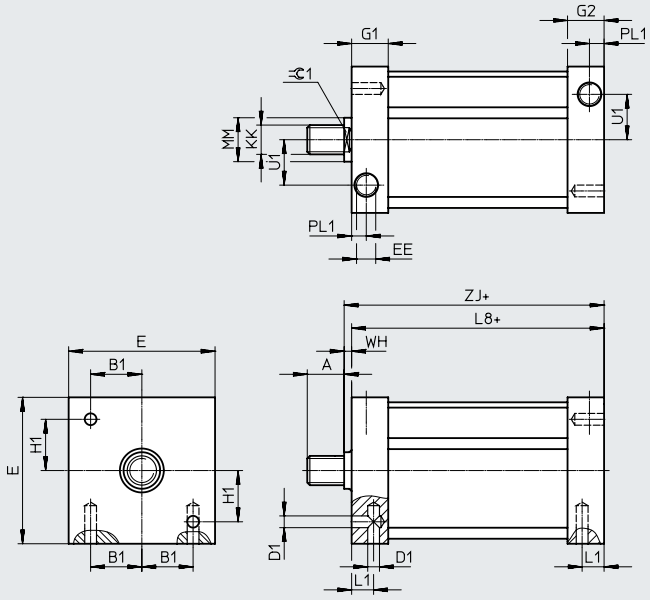
DPCB-...-QP-...-U DPCB-...-QP-...-U90



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

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

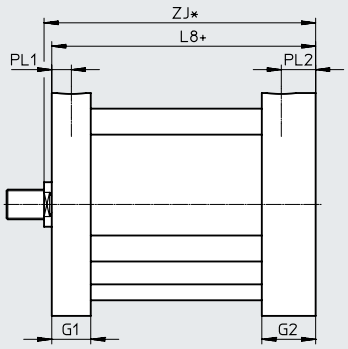
Stroke [in]	A	B1	D1 ⌀	E	EE	G1	G2	H1	KK	
1/8...4	0.5	0.69	10-24 UNC	2	1/8 NPT	0.58	0.5	0.69	3/8-16 UNC	3/8-24 UNF

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 diameter 1 1/2 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

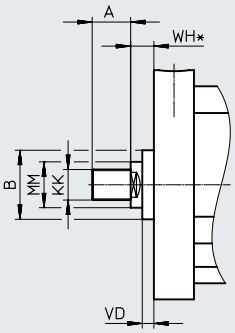


*/+ = plus stroke length

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 diameter 1 1/2 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

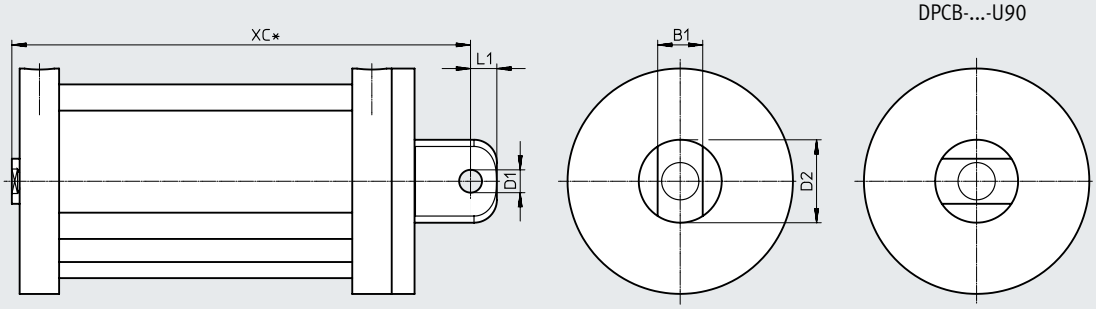


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.5	1	3/8-16 UNC	3/8-24 UNF	0.63	0.38	0.19

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



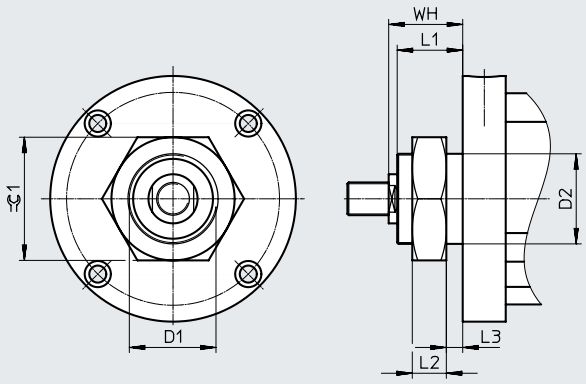
+ = plus stroke length

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

Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

[FT] Flange thread, front

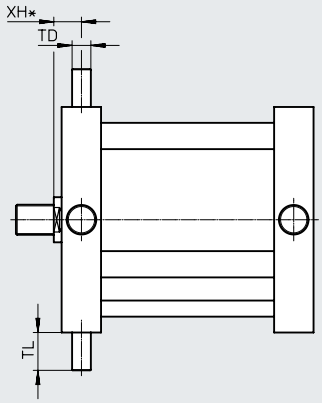


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1 1/4-12 UNF-2A	1.25	0.75	0.52	0.13	0.88	1.88

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

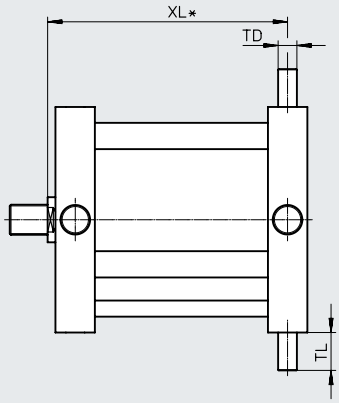
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL* = plus stroke length

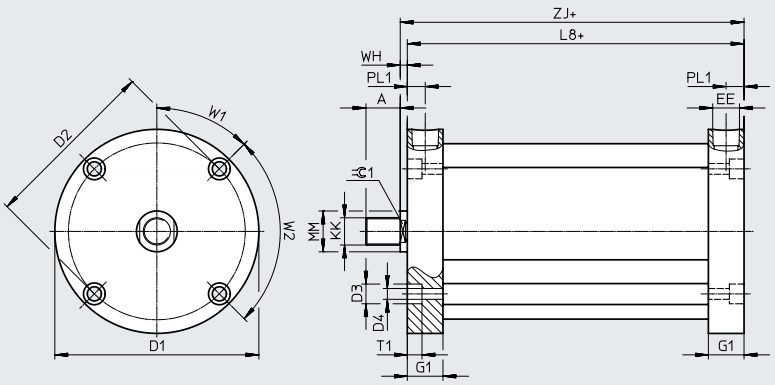
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.25	0.5	0.38	0.76

Datasheet

Dimensions – piston diameter 2

Download CAD data ➔ www.festo.com

[ ] External 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

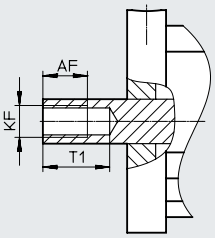
Stroke [in]	L8	MM Ø	PL1	T1	W1	W2	WH	ZJ	⊂ 1
1/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1/4	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
3/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1/2	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
5/8	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
3/4	0.94	0.75	0.25	0.22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

Download CAD data ➔ www.festo.com

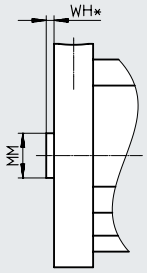
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



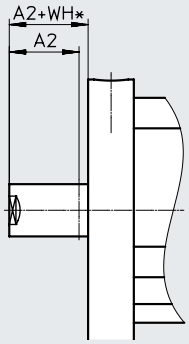
+ = plus stroke length

Stroke [in]	AF	KF		T1	MM Ø	WH
	[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 diameter 2 Download CAD data ➔ www.festo.com

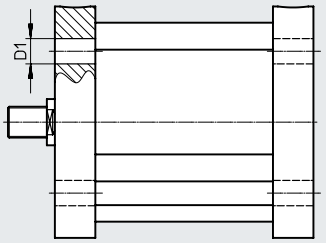
[NE] Piston rod extension



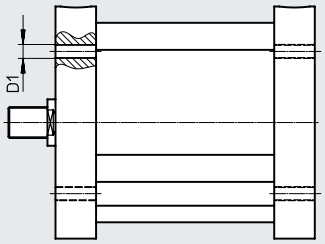
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



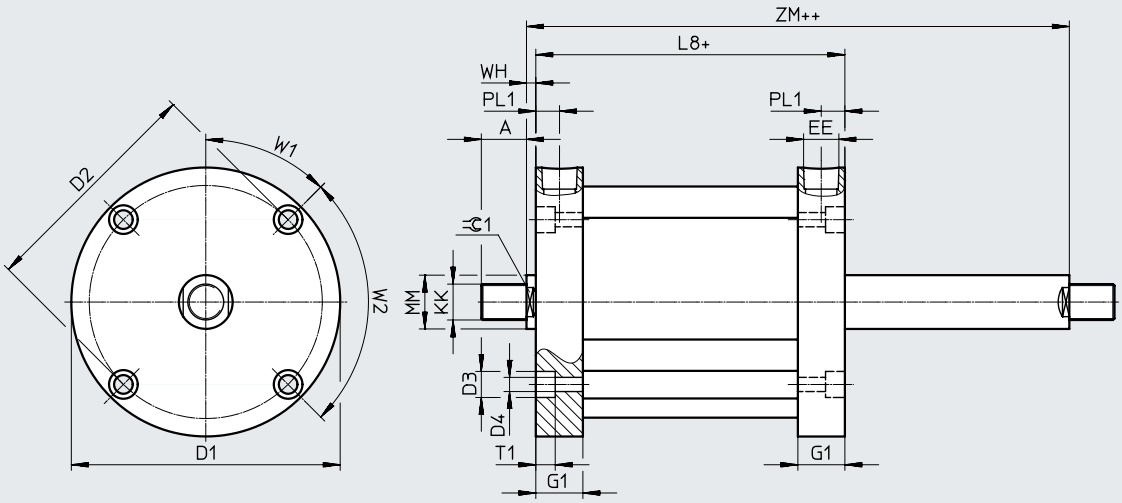
DPCB-...-MB



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

Dimensions – piston diameter 2 Download CAD data ➔ 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	0.63	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	ZM	⌀ 1
1/8...4	1.06	0.75	0.25	0.22	45°	90°	0.13	1.32	0.63

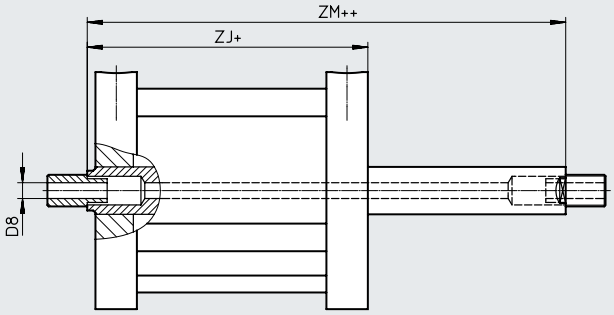
Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

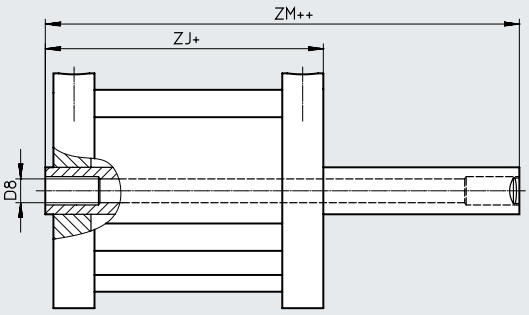
[H] Through, hollow piston rod

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

DPCB-...-H



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



+ = plus stroke length

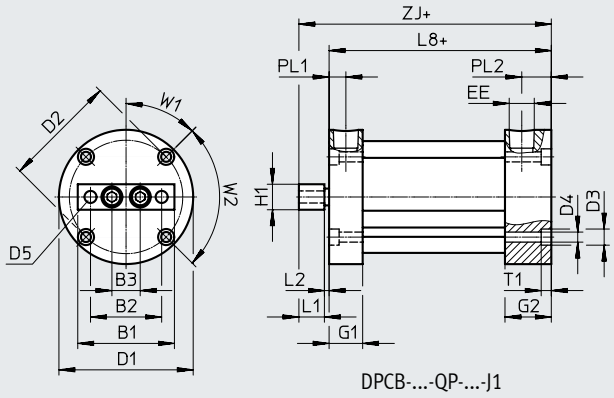
++ = plus 2x stroke length

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

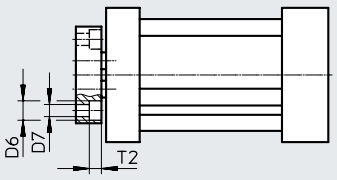
Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

[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 [J1]	D7 ø [J1]	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 [J1]	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

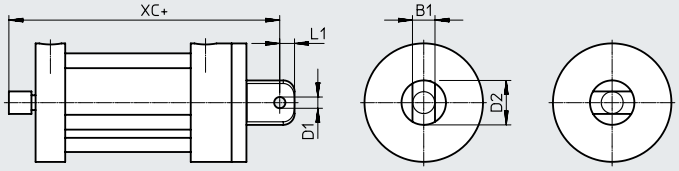
Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

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

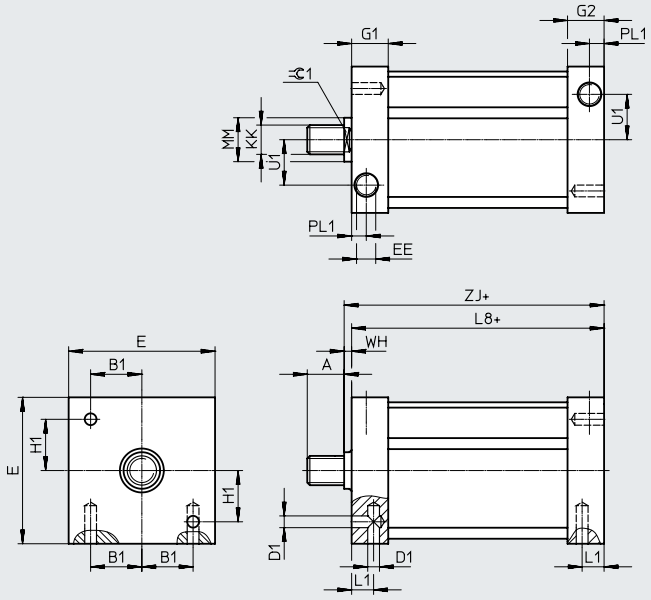
DPCB-...-QP-...-U DPCB-...-QP-...-U90



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

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

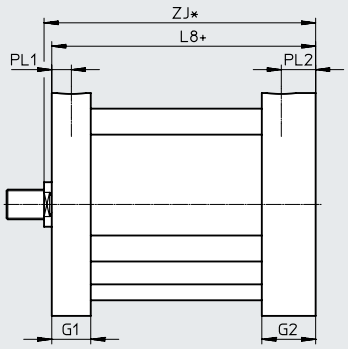
Stroke [in]	A	B1	D1 ⌀	E	EE	G1	G2	H1	KK	
1/8...4	0.63	0.88	1/4-20 UNC	2.5	1/8 NPT	0.63	0.63	0.88	1/2-13 UNC	1/2-20 UNF

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 diameter 2 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

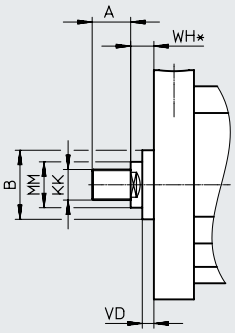


*/+ = plus stroke length

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 diameter 2 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

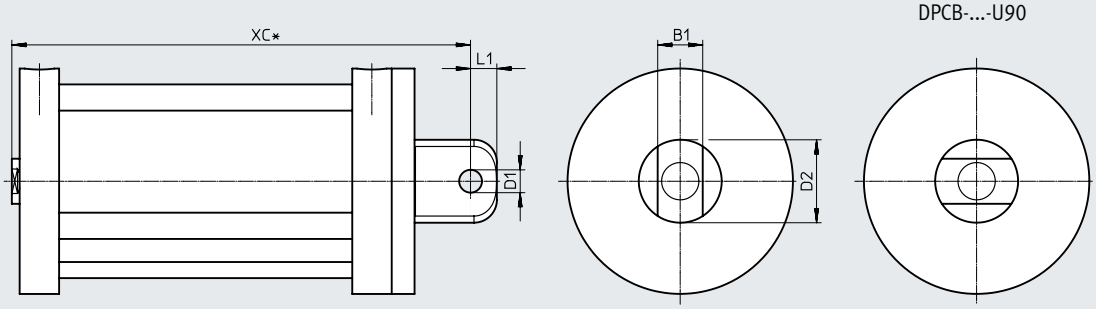


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC	1/2-20 UNF	0.75	0.38	0.19

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



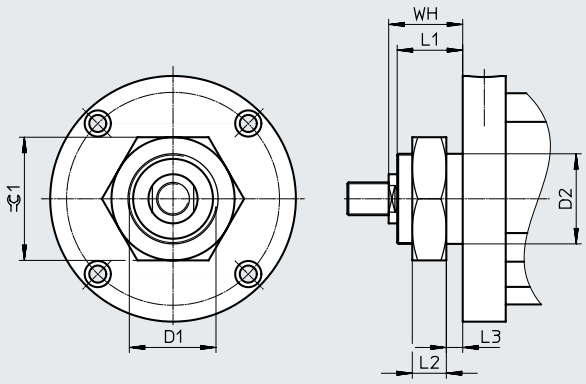
+ = plus stroke length

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

Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

[FT] Flange thread, front

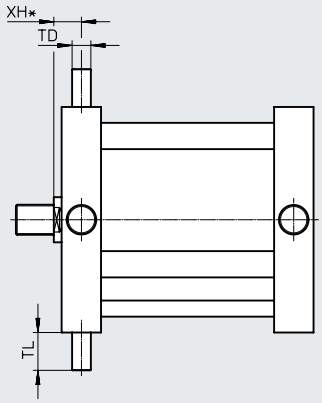


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1 3/8-12 UNF-2A	1.38	0.88	0.52	0.19	1.01	1.88

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

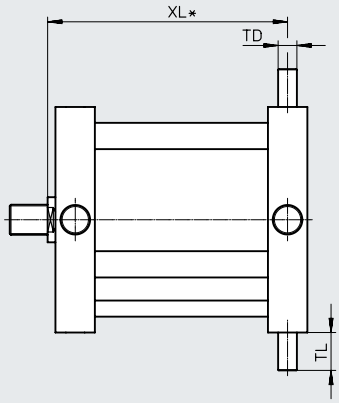
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL* = plus stroke length

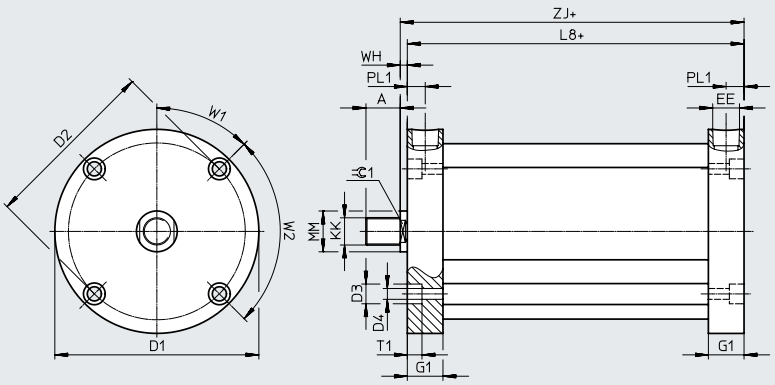
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.25	0.5	0.38	0.82

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

[ ] External 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

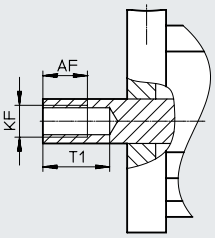
Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⌀ 1
1/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
1/4	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
3/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
1/2	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
5/8	1.19	0.75	0.33	0.27	45°	90°	0.13	1.32	0.63
3/4...4	1.19	0.75	0.33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

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

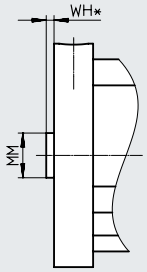
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



+ = plus stroke length

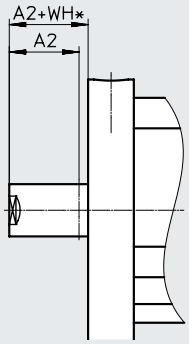
Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.425	1/2-13 UNC	1/2-20 UNF	0.575	0.75	0.13
1/4	0.535	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
3/8	0.645	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1	0.75	0.13
3/4...4	0.75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

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

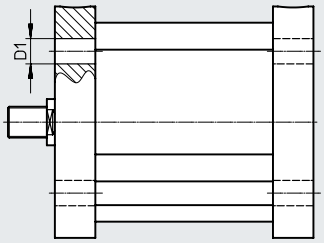
[NE] Piston rod extension



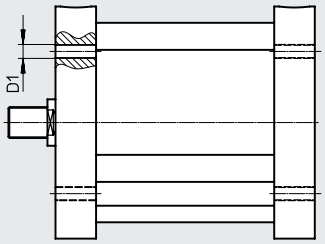
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB

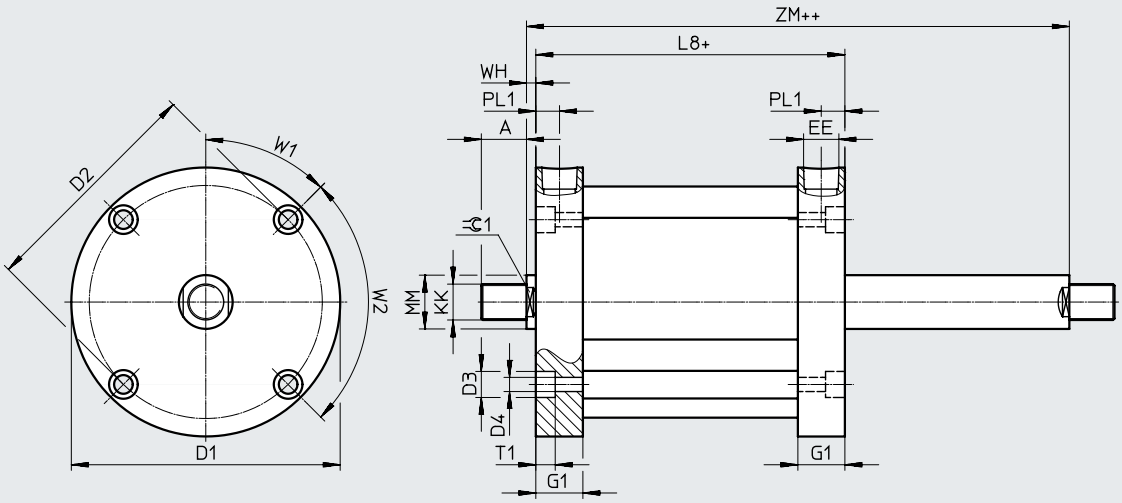


Stroke [in]	A2		WH	D1 Ø	D1 Ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston diameter 2 1/2

Download CAD data ➔ 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	0.63	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	ZM	⌀ 1
1/8...4	1.31	0.75	0.33	0.27	45°	90°	0.13	1.57	0.63

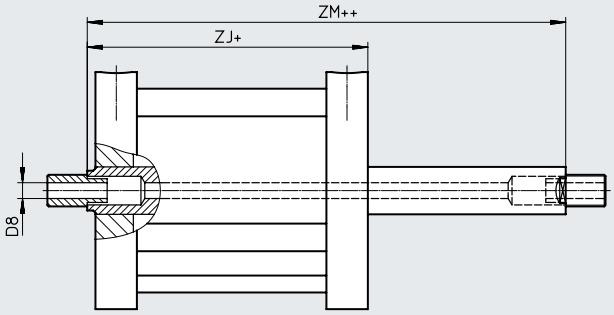
Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

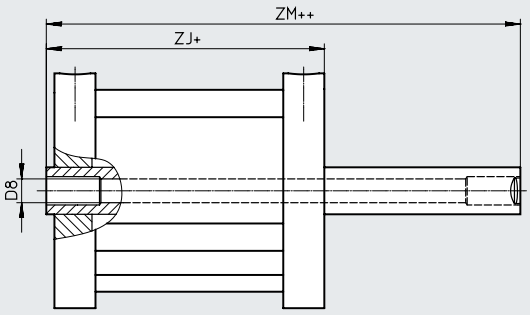
[H] Through, hollow piston rod

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

DPCB-...-H



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



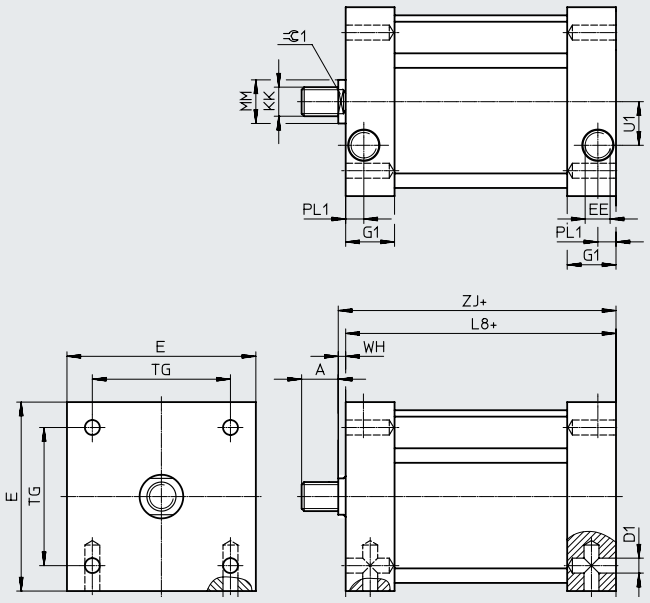
+ = plus stroke length

++ = plus 2x stroke length

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

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

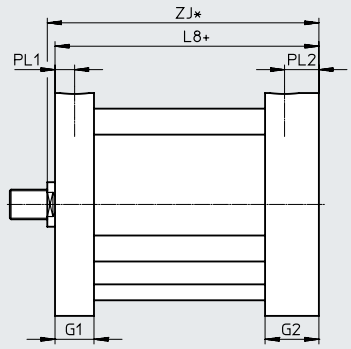
Stroke [in]	A	D1 Ø	E	EE	G1	KK		L1
1/8...4	0.63	5/16-18 UNC	3.25	1/4 NPT	0.84	1/2-13 UNC	1/2-20 UNF	0.42

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

Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

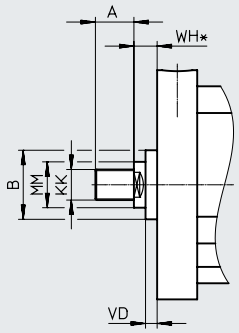


*/+ = plus stroke length

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 diameter 2 1/2 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

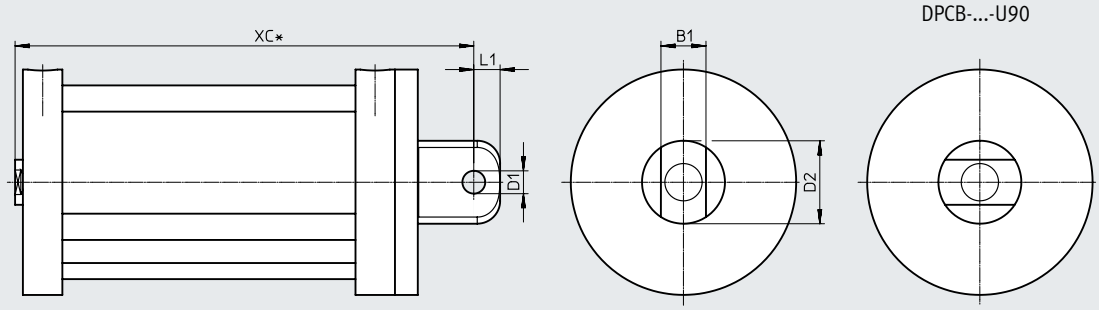


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.63	1.13	1/2-13 UNC	1/2-20 UNF	0.75	0.38	0.19

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



+ = plus stroke length

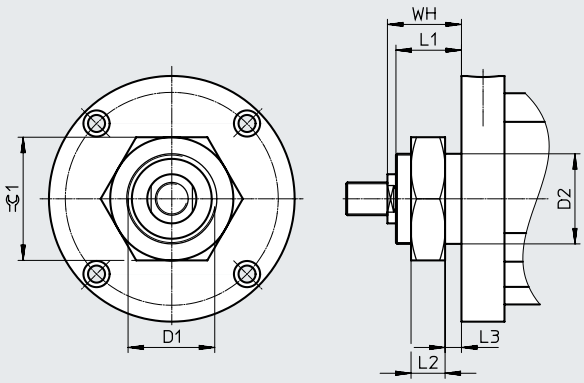
Stroke [in]	B1	D1 ⌀	D2 ⌀	L1	XC
1/8...4	0.75	0.38	1.38	0.44	2.63

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

[FT] Flange thread, front



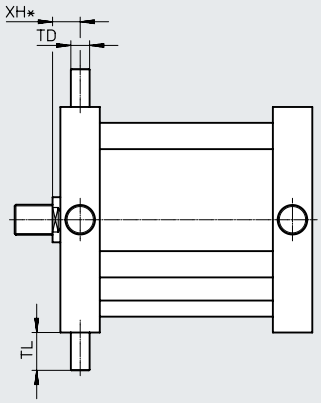
Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

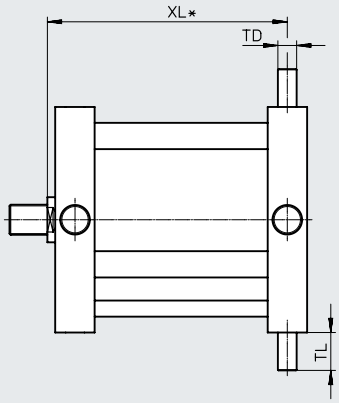
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL* = plus stroke length

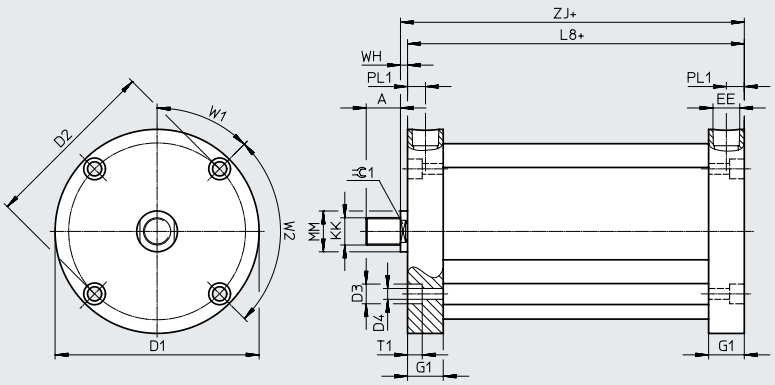
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.312	0.63	0.46	0.99

Datasheet

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

[ ] External thread



+ = plus stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

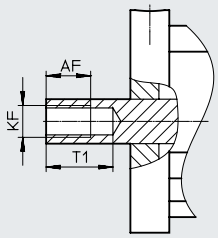
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀G1
1/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1/4	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
3/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1/2	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
5/8	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
3/4	1.25	0.88	0.33	0.27	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 diameter 3

Download CAD data ➔ www.festo.com

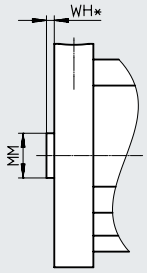
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



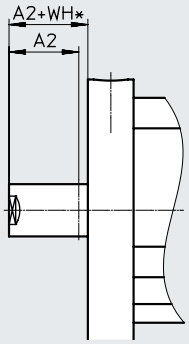
+ = plus stroke length

Stroke [in]	AF	KF		T1	MM ⌀	WH
	[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 diameter 3 Download CAD data ➔ www.festo.com

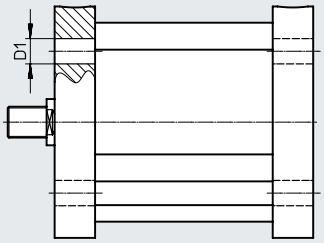
[NE] Piston rod extension



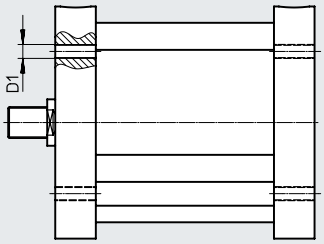
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



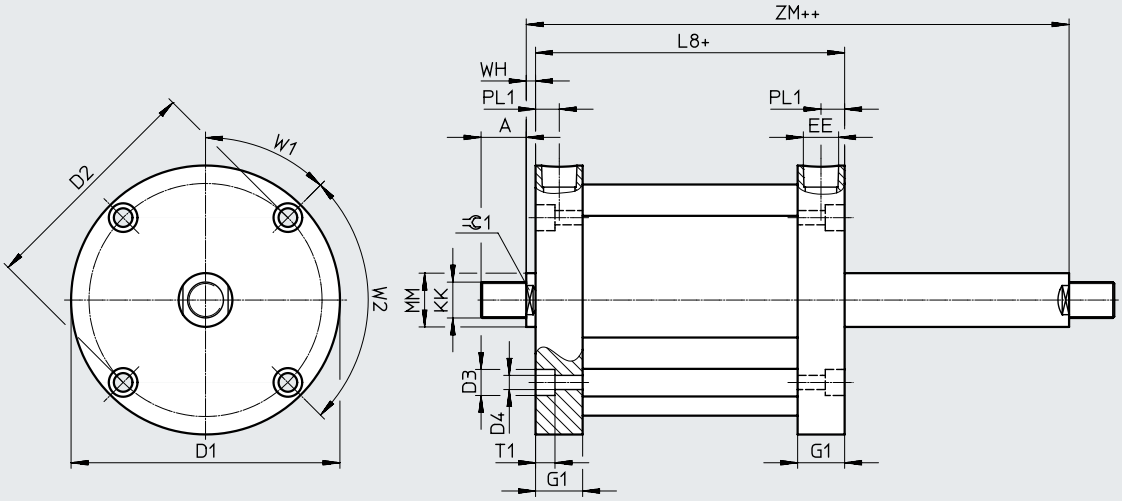
DPCB-...-MB



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 diameter 3 Download CAD data ➔ 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	SW1
1/8...4	1.38	0.88	0.33	0.27	45°	90°	0.13	1.64	0.75

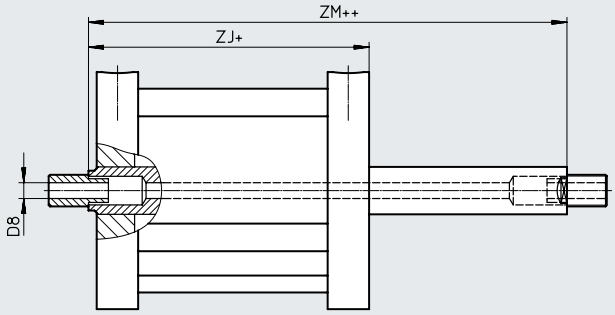
Datasheet

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

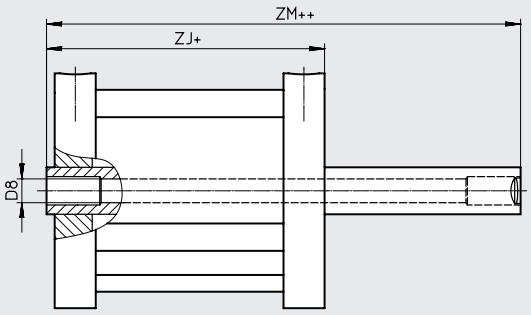
[H] Through, hollow piston rod

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

DPCB-...-H



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



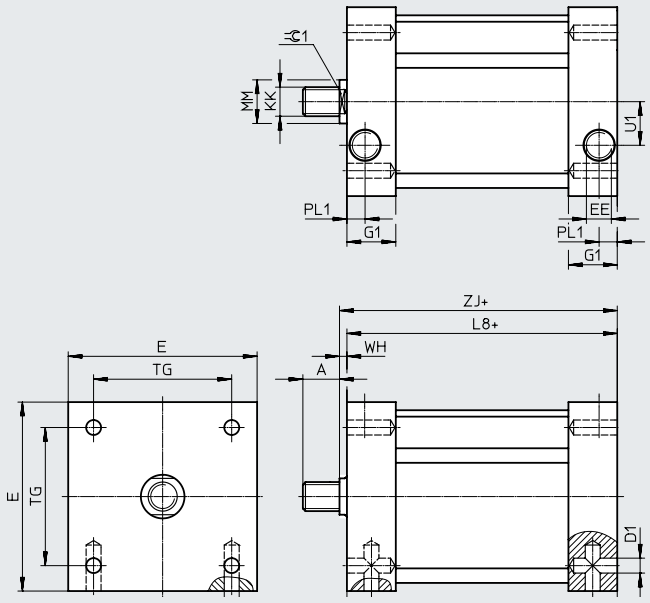
+ = plus stroke length

++ = plus 2x stroke length

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

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



+ = plus stroke length

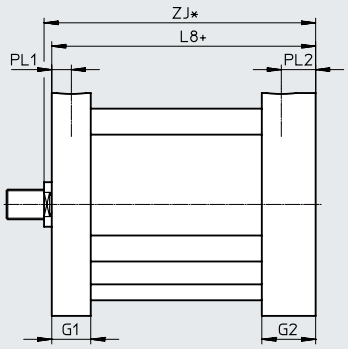
Stroke [in]	A	D1 ⌀	E	EE	G1	KK		L1
1/8...4	0.75	5/16-18 UNC	3.75	1/4 NPT	0.88	5/8-11 UNC	5/8-18 UNF	0.44

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

Datasheet

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

[V] Reinforced end cap

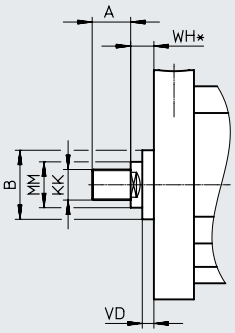


*/+ = plus stroke length

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 diameter 3 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

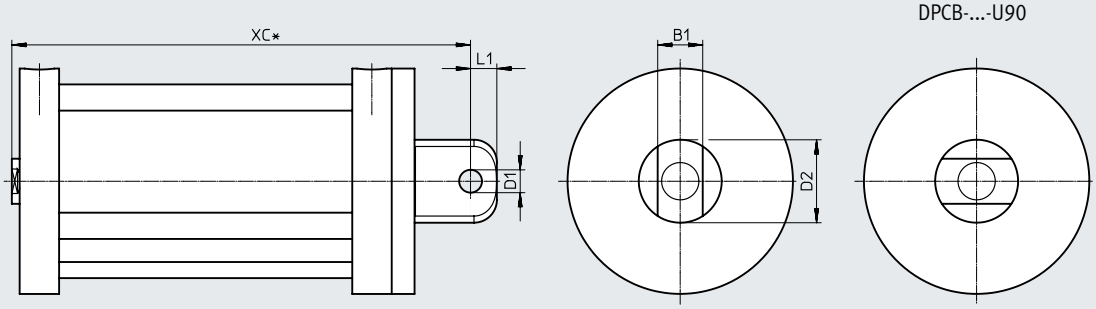


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.75	1.25	5/8-11 UNC	5/8-18 UNF	0.88	0.38	0.19

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



+ = plus stroke length

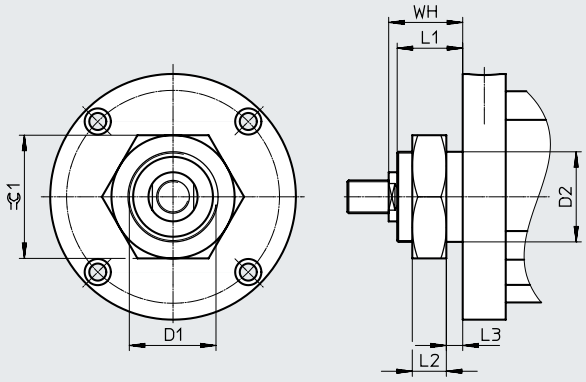
Stroke [in]	B1	D1 ⌀	D2 ⌀	L1	XC
1/8...4	1	0.63	1.88	0.56	3.07

Datasheet

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

[FT] Flange thread, front



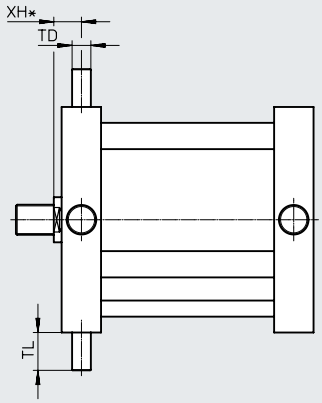
Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

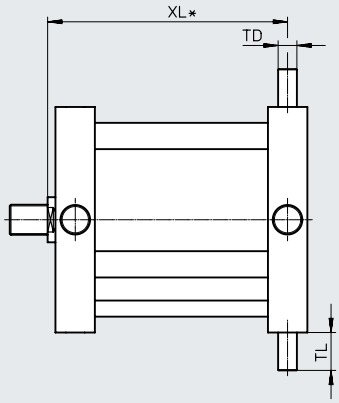
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



XL* = plus stroke length

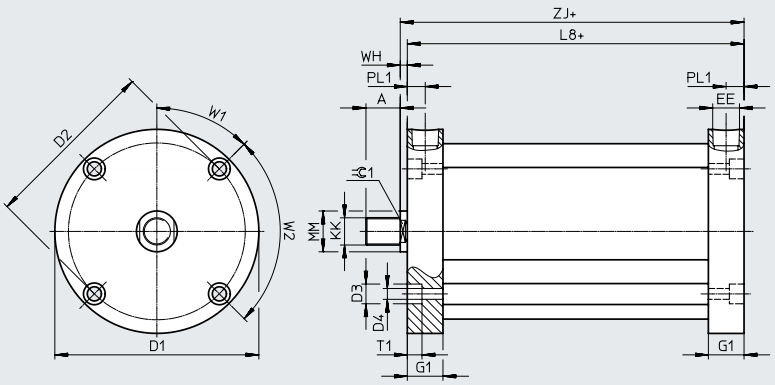
Stroke [in]	TD	TL	XH	XL
			[Y2]	[Y3]
1/8...4	0.312	0.63	0.46	1.05

Datasheet

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

[ ] External 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

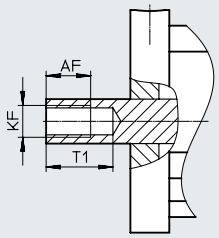
Datasheet

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

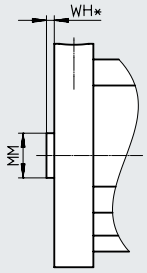
[F] Internal thread

DPCB-...-F



[N] No thread

DPCB-...-N



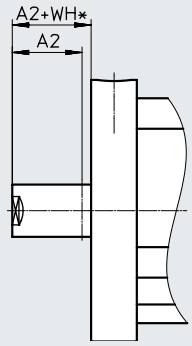
+ = plus stroke length

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 diameter 4

Download CAD data ➔ www.festo.com

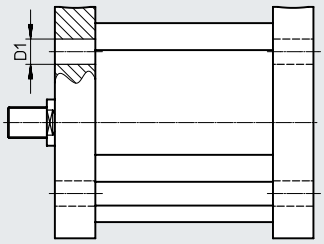
[NE] Piston rod extension



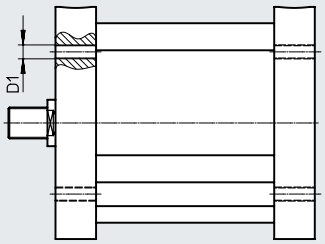
[CB] – Through-holes, at both ends

[MB] – Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB

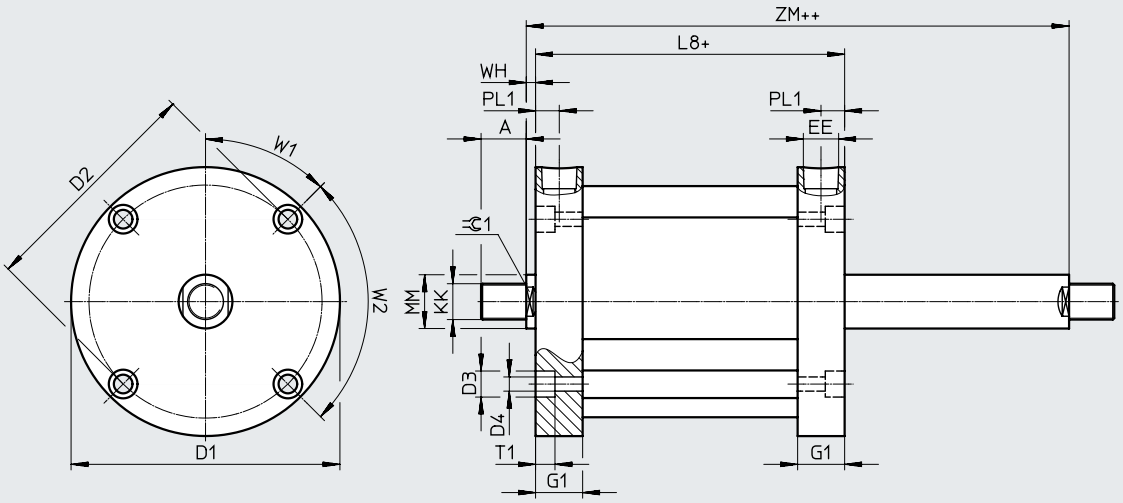


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.5	5/16-18 UNC

Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ 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

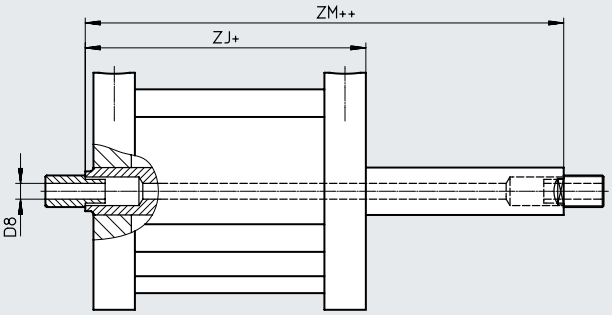
Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZM	⌀1
1/8...4	1.69	1	0.42	0.33	45°	90°	0.13	1.95	0.88

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

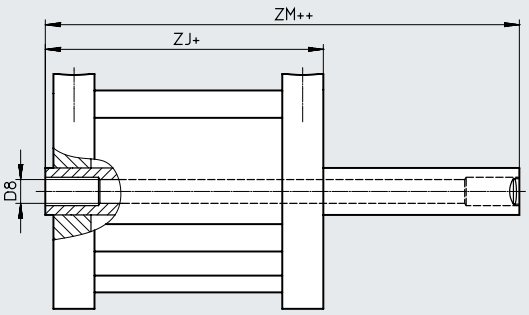
[H] Through, hollow piston rod

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

DPCB-...-H



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



+ = plus stroke length

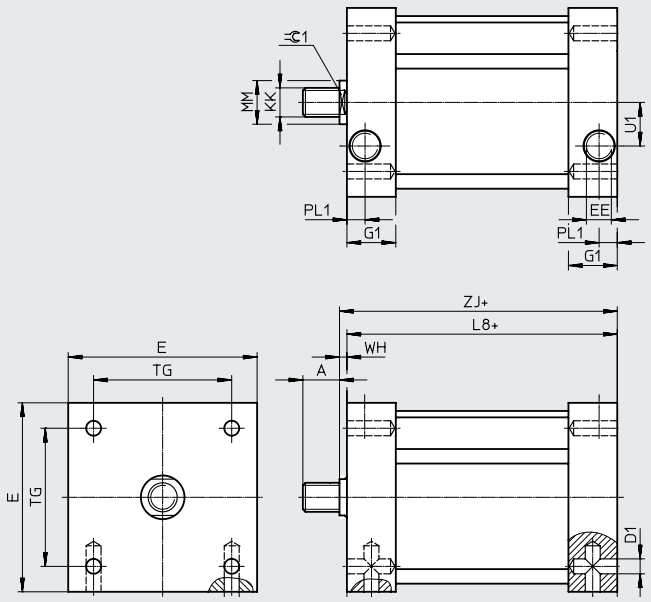
++ = plus 2x stroke length

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

Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

[QX] Square cap geometry



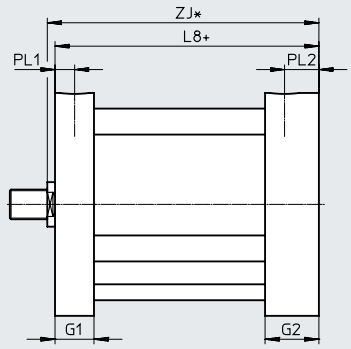
+ = plus stroke length

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...4	2	1	0.44	3.62	1.25	0.13	2.13	0.88

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

[V] – Reinforced end cap



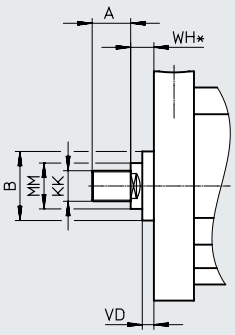
*/+ = plus stroke length

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 diameter 4 Download CAD data ➔ www.festo.com

[A4] Scraper made of NBR

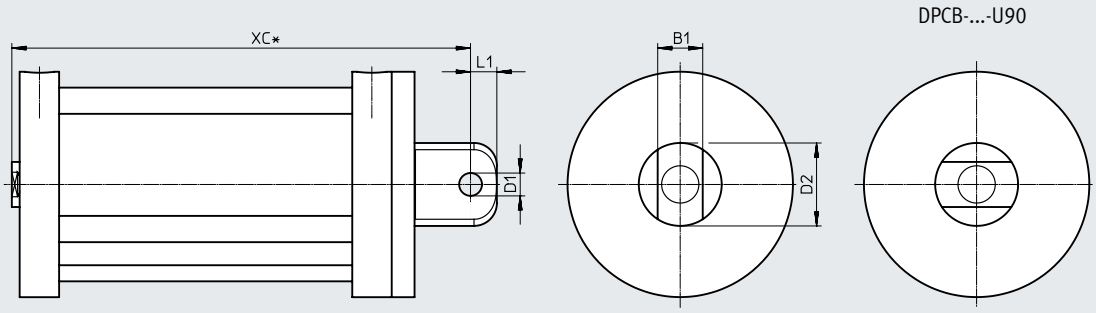


Stroke [in]	A	B	KK		MM ⌀	WH	VD
1/8...4	0.75	1.38	3/4-10 UNC	3/4-16 UNF	1	0.38	0.19

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°

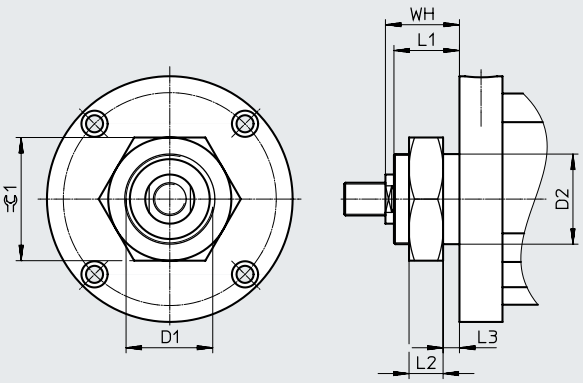


+ = plus stroke length

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

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

[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

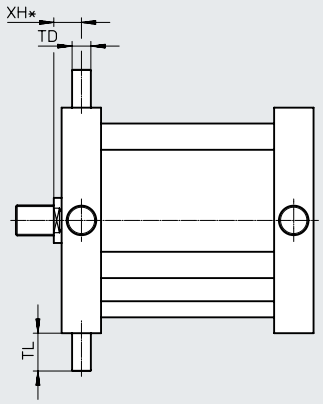
Datasheet

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

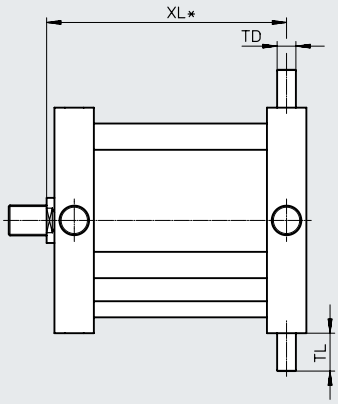
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



[Y3] Trunnion flange mounting position, rear

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 diameter	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code	Enter code
Module no.	**8104879**	**8104880**	**8104881**	**8104882**	**8104883**	**8104884**	**8104885**	**8104886**			
Function	Compact cylinder, double-acting									**DPCB**	DPCB
System of units	Inch										
Anti-twist protection	Without										
	–	With double piston rod				–	–	–	[1]	**-QP**	
Running characteristics	Standard										
	Low friction								[2]	**L**	
Piston diameter	1/2"	3/4"	1 1/16"	1 1/2"	2"	2 1/2"	3"	4"		**-..."**	
Stroke											
1/8"	1)	1) 2)	1)	1)	1)	1)	1)	1)		**-1/8"**	
1/4"	1)	1) 2)	1)	1)	1)	1)	1)	1)		**-1/4"**	
3/8"	3)	2)								**-3/8"**	
1/2"	3)	2)								**-1/2"**	
5/8"	3)	2)								**-5/8"**	
3/4"	3)	2)								**-3/4"**	
7/8"	3)	2)								**-7/8"**	
1"	3)	2)								**-1"**	
1 1/8"	3)	2)								**-1 1/8"**	
1 1/4"	3)	2)								**-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 external thread, F, N
Not with piston diameter 1/2, 2 1/2, 3, 4
Mandatory entry in conjunction 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

2) Not with R270

3) Not with R90

Ordering data – Modular product system

Ordering table

Piston diameter	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]	**H**	
	Through piston rod								[2]	**T**	
Piston rod design	One end plate										
	One end plate with recess and through-hole									**J1**	
	One end plate, rotated 90°								[6]	**J90**	
	One end plate with recess and through-hole, rotated 90°								[6]	**J91**	
Piston rod thread type	External thread								[5]		
	Internal thread								[5]	**F**	
	No thread								[5]	**N**	
Supply port	Lateral										
	–	Rotated through 90°							[3] [10]	**P90**	
	Rotated through 180°								[10]	**P180**	
	–	Rotated through 270°							[3] [10]	**P270**	
Cap geometry	Round										
	–	Square							[3]	**QX**	
End cap	Standard										
	Reinforced								[2] [4] [13]	**V**	
Type of mounting	Standard										
	With swiveling rod eye								[4]	**U**	
	Through-holes, at both ends								[10]	**CB**	
	Through-holes, front								[10]	**CF**	
	Through-holes, rear								[10]	**CR**	
	Flange thread, front								[2] [10]	**FT**	
	Mounting thread, at both ends								[10]	**MB**	
	Mounting thread, front								[10]	**MF**	
	Mounting thread, rear								[10]	**MR**	
	–	Trunnion flange mounting position, front							[3] [10]	**Y2**	
	–	Rear trunnion mounting position							[3] [10]	**Y3**	
	With swiveling rod eye, rotated 90°								[4]	**U90**	
Cushioning	No cushioning									**-N**	
	Flexible cushioning rings/pads at both ends								[2]	**-P**	
	Flexible cushioning rings/pads at front								[2]	**-P2**	
	Flexible cushioning rings/pads at rear								[2]	**-P3**	
Position sensing	Without										
	For proximity switch									**A**	
Temperature range	Standard										
	-40 ... + 176 °F									**-T3**	
Scraper variant	None										
	Increased chemical resistance									**-A1**	
	Scraper made of NBR								[2] [13]	**-A4**	
Piston rod extension	0.001...6"									**-...NE**	

[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, R270
Not with piston diameter 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, R180
Not with QX

[13] V, A4
Not with FT

Ordering data – Modular product system

Ordering table

Piston diameter	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**		
Sensor mounting, external	Without											
	Mounting rail for sensors								[11]	**-R**		
	Mounting rail for sensors, rotated 90°								[11]	**-R90**		
	Mounting rail for sensors, rotated 180°								[10] [11]	**-R180**		
	–	Mounting rail for sensors, rotated 270°							[3] [11]	**-R270**		

[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, R270
Not with piston diameter 1/2

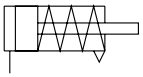
[10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3, R180
Not with QX

[11] R, R90, R180, R270
Only with A

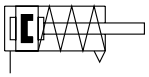
Datasheet

Function

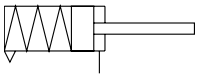
DPCB-...-S



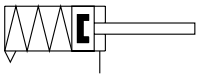
DPCB-...-S-...-A



DPCB-...-P



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



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

General technical data								
Piston diameter	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4
Design	Piston							
	Piston rod							
	Cylinder barrel							
Mode of operation	Single-acting, pushing (piston rod retracted by spring force)							–
	Single-acting, pulling (piston rod advanced by spring force)							
Pneumatic connection with internal 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	External thread							
	Internal thread							
Stroke [in]	1/8 ... 4							
Cushioning								
[P]	Flexible cushioning rings/pads at both ends							
[P2]	Flexible cushioning rings/pads at front							
[P3]	Flexible cushioning rings/pads at rear							
Position sensing	For proximity switch							
Type of mounting								
[U]	With swiveling rod eye on end cap							
[U90]	With swiveling rod eye on end cap rotated 90°							
[CB]	With through-hole on both sides							
[CF]	With through-hole on bearing cap							
[CR]	With through-hole on end cap							
[Y2]	With trunnion flange mounting on bearing cap							
[Y3]	With trunnion flange mounting on end cap							
[FT]	With threaded flange on bearing cap							
[MB]	Threaded direct mounting on both sides							
[MF]	Threaded direct mounting on bearing cap							
[MR]	Threaded direct mounting on end cap							
	With accessories							
Mounting position	Any							

Datasheet

Operating and environmental conditions									
Piston diameter		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]							
Information on operating and pilot media		Lubricated operation possible (in which case lubricated operation will always be required)							
Ambient temperature[1)]	[°F]	-25 ... +221							

1) Note operating range of proximity switches

Forces [lbs] at 80 psi								
Piston diameter	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)[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)

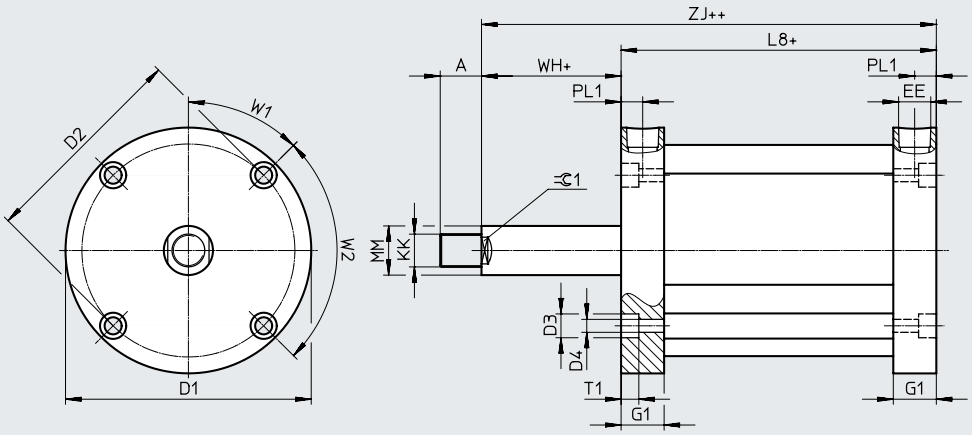
Materials	
Cover	Wrought aluminum alloy
Dynamic seals	NBR
	FPM
Piston rod	High-alloy stainless steel, hard chrome plated
Cylinder barrel	Reinforced composite material
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

Weight [lb]								
Piston diameter	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 diameter 1/2 Download CAD data ➔ www.festo.com

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



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

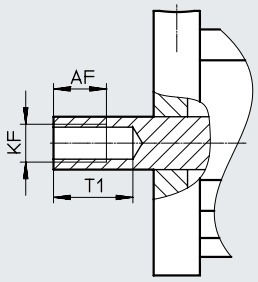
Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	EE	G1	KK
1/8...4	0.38	1.12	0.88	0.2	0.13	10-32 UNF	0.34	8-24 UNC

Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	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 diameter 1/2 Download CAD data ➔ www.festo.com

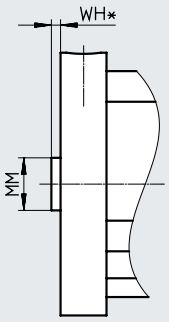
[P] Single-acting, pulling (piston rod advanced by spring force)
[F] Internal thread

DPCB-...-F



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

DPCB-...-N



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

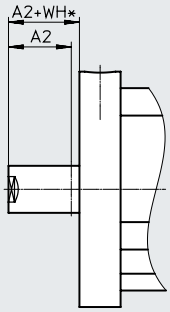
Datasheet

Dimensions – piston diameter 1/2

Download CAD data ➔ www.festo.com

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

[NE] Piston rod extension



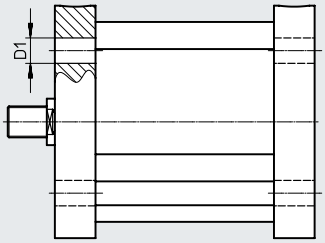
+ = plus stroke length

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

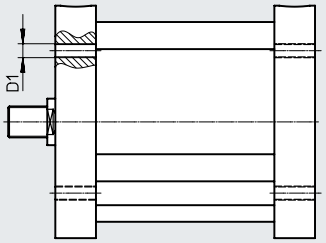
[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB



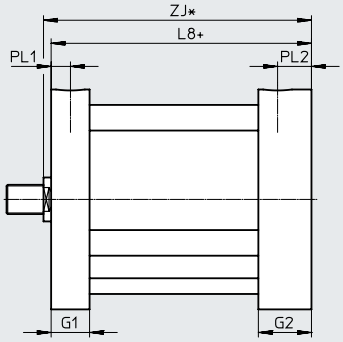
Stroke [in]	A2		WH	D1 Ø	D1 Ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.17	4-40 UNC

Dimensions – piston diameter 1/2

Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

+ = plus stroke length

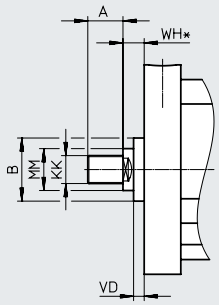
Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.34	0.47	1.19	0.14	0.27	1.32
1 1/4...2	0.34	0.47	1.75	0.14	0.27	1.88
2 1/2; 3	0.34	0.47	2.27	0.14	0.27	2.4
3 1/2; 4	0.34	0.47	3.34	0.14	0.27	3.47

Datasheet

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

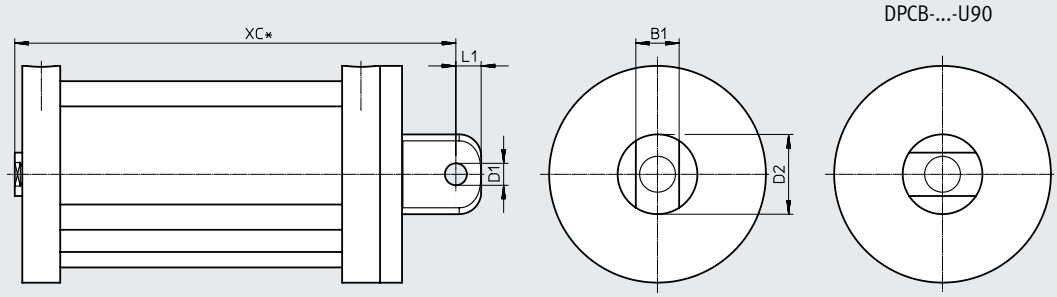
Stroke [in]	A	B	KK	MM ⌀	WH	VD
1/8...4	0.38	0.56	8-24 UNC	0.25	0.38	0.19

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



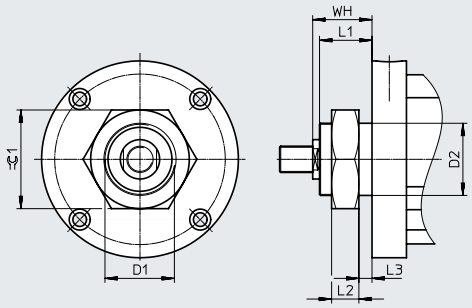
* = plus 2x stroke length

Stroke [in]	B1	D1 ⌀	D2 ⌀	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 diameter 1/2 Download CAD data ➔ www.festo.com

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

[FT] Flange thread, front



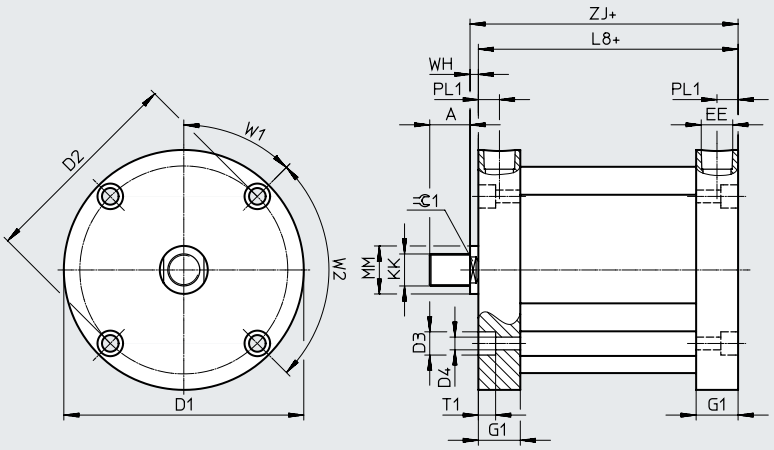
Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston diameter 1/2

Download CAD data ➔ 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	1.12	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

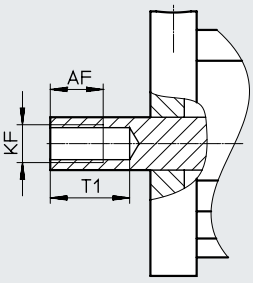
Dimensions – piston diameter 1/2

Download CAD data ➔ www.festo.com

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

[F] Internal thread

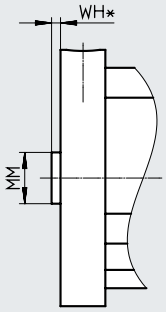
DPCB-...-F



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

[N] No thread

DPCB-...-N

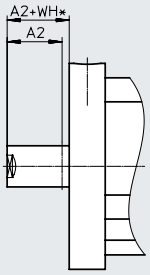


Stroke [in]	AF	KF	T1	MM ø	WH
	[F]	[F]	[F]	[N]	[N]
1/8	0.294	8-32 UNC	–	0.25	0.13
1/4	0.419	8-32 UNC	–	0.25	0.13
3/8	0.544	8-32 UNC	–	0.25	0.13
1/2	0.544	8-32 UNC	–	0.25	0.13
5/8...4	0.46	8-32 UNC	–	0.25	0.13

Datasheet

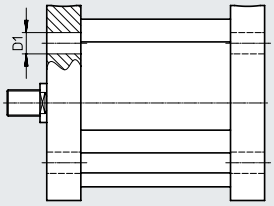
Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

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

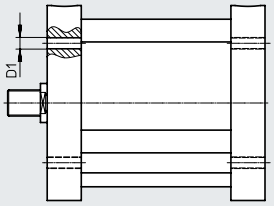


[S] single-acting, pushing (piston rod retracted by spring force)
[CB] – Through-holes, at both ends
[MB] – Mounting thread, at both ends

DPCB-...-CB



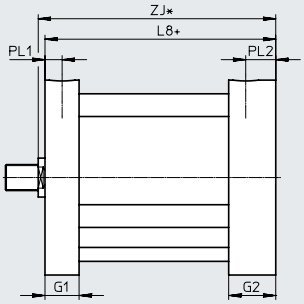
DPCB-...-MB



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

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

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

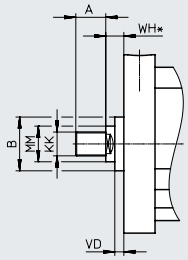


*/+ = plus stroke length

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 diameter 1/2 Download CAD data ➔ www.festo.com

[S] Single-acting, pushing (piston rod retracted by spring force)
[A4] Scraper 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

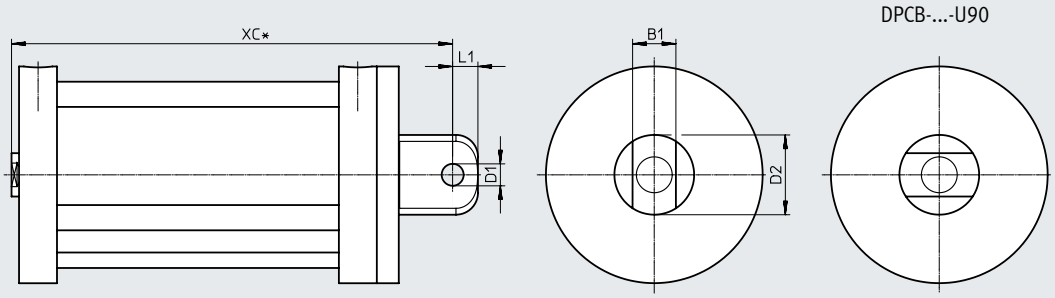
Datasheet

Dimensions – piston diameter 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



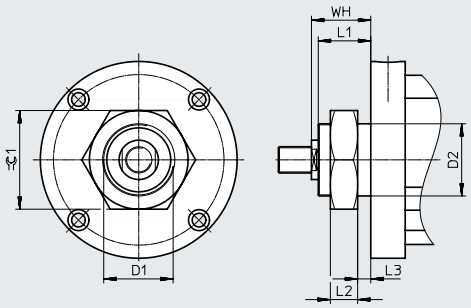
* = plus stroke length

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 diameter 1/2 Download CAD data ➔ www.festo.com

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

[FT] Flange thread, front

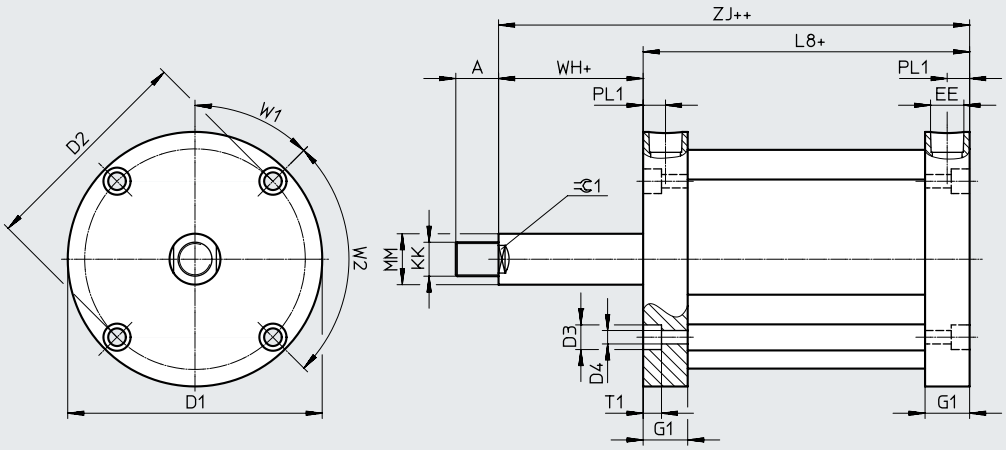


Stroke [in]	D1	D2 ⌀	L1	L2	L3	WH	⌀1
1/8...4	1/2-20 UNF-2A	0.5	0.38	0.31	0.6	0.51	0.75

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

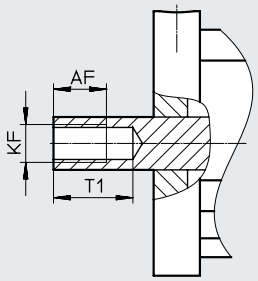
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀G1
1/8...1	1.06	0.31	0.14	0.15	43°	90°	0.13	1.19	0.25
1 1/4...2	1.62	0.31	0.14	0.15	43°	90°	0.13	1.75	0.25
2 1/2; 3	2.19	0.31	0.14	0.15	43°	90°	0.13	2.32	0.25
3 1/2; 4	2.75	0.31	0.14	0.15	43°	90°	0.13	2.88	0.25

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[F] Internal thread

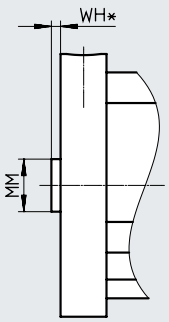
DPCB-...-F



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

[N] No thread

DPCB-...-N

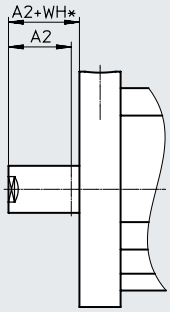


Stroke [in]	AF	KF		T1	MM ⌀	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.298	10-24 UNC	10-32 UNF	–	0.31	0.13
1/4	0.423	10-24 UNC	10-32 UNF	–	0.31	0.13
3/8	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
1/2	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
5/8...4	0.46	10-24 UNC	10-32 UNF	–	0.31	0.13

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

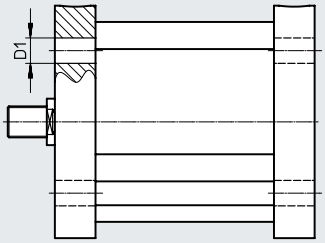
[P] Single-acting, pulling (piston rod advanced by spring force)
[NE] Piston rod extension



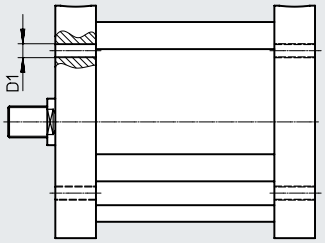
+ = plus stroke length

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

DPCB-...-CB



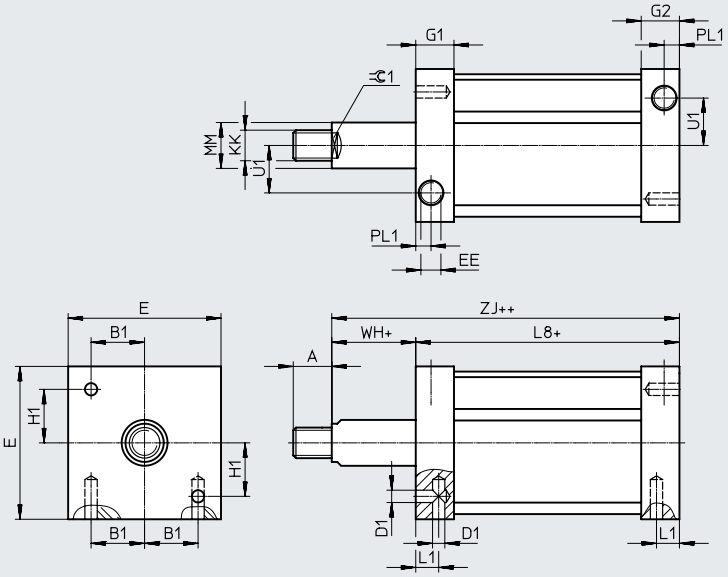
DPCB-...-MB



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 diameter 3/4 Download CAD data ➔ www.festo.com

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



+ = plus stroke length
++ = plus 2x 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

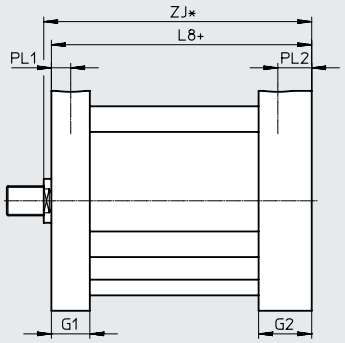
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	⫩1
1/8...1	0.28	1.25	0.31	0.14	0.3	0.13	1.38	0.25
1 1/4...2	0.28	1.81	0.31	0.14	0.3	0.13	1.94	0.25
2 1/2...3	0.28	2.38	0.31	0.14	0.3	0.13	2.51	0.25
3 1/2...4	0.28	2.94	0.31	0.14	0.3	0.13	3.07	0.25

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

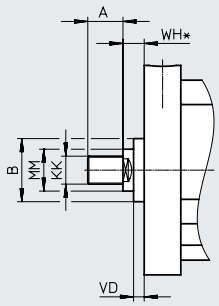
+ = plus stroke length

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 diameter 3/4 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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	0.38	0.19

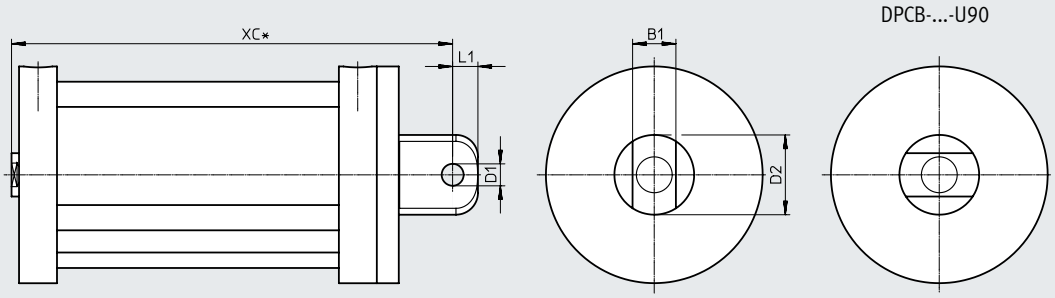
Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



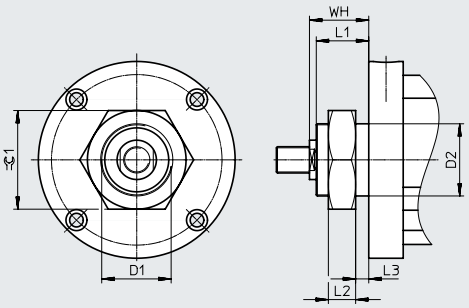
* = plus 2x stroke length

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 diameter 3/4 Download CAD data ➔ 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

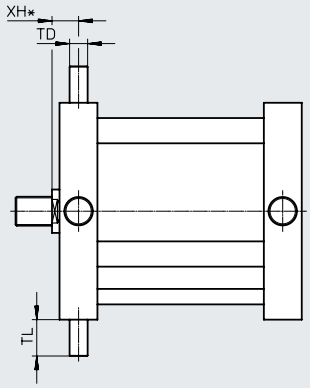
Datasheet

Dimensions – piston diameter 3/4

Download CAD data ➔ www.festo.com

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

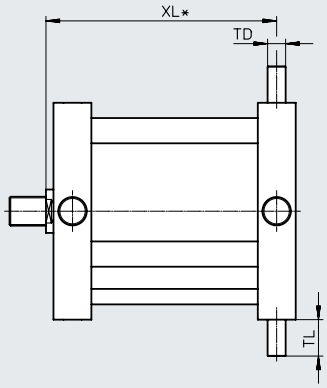
DPCB-...-Y2



XH* = plus stroke length

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

DPCB-...-Y3



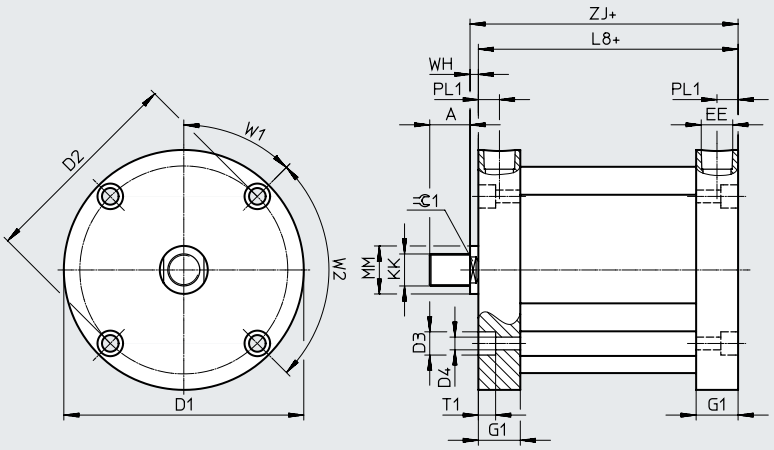
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 3/4 Download CAD data ➔ 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

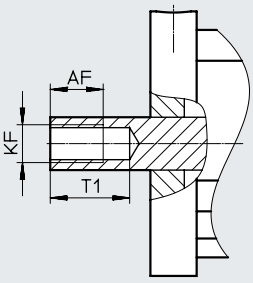
Stroke [in]	L8	MM ø	PL1	T1	W1	W2	WH	ZJ	⌯1
1/8...1	0.81	0.31	0.14	0.15	43°	90°	0.13	0.94	0.25
1 1/4...2	1.38	0.31	0.14	0.15	43°	90°	0.13	1.51	0.25
2 1/2; 3	1.94	0.31	0.14	0.15	43°	90°	0.13	2.07	0.25
3 1/2; 4	2.5	0.31	0.14	0.15	43°	90°	0.13	2.63	0.25

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[F] Internal thread

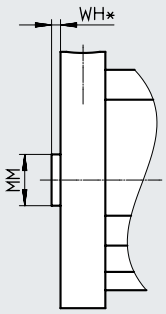
DPCB-...-F



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

[N] No thread

DPCB-...-N



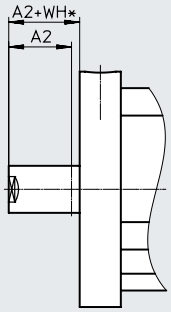
Stroke [in]	AF	KF		T1	MM ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.298	10-24 UNC	10-32 UNF	–	0.31	0.13
1/4	0.423	10-24 UNC	10-32 UNF	–	0.31	0.13
3/8	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
1/2	0.548	10-24 UNC	10-32 UNF	–	0.31	0.13
5/8...4	0.46	10-24 UNC	10-32 UNF	–	0.31	0.13

Datasheet

Dimensions – piston diameter 3/4

Download CAD data ➔ www.festo.com

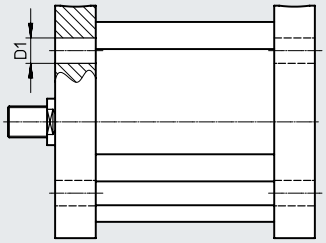
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



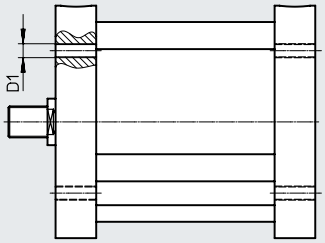
+ = plus stroke length

[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

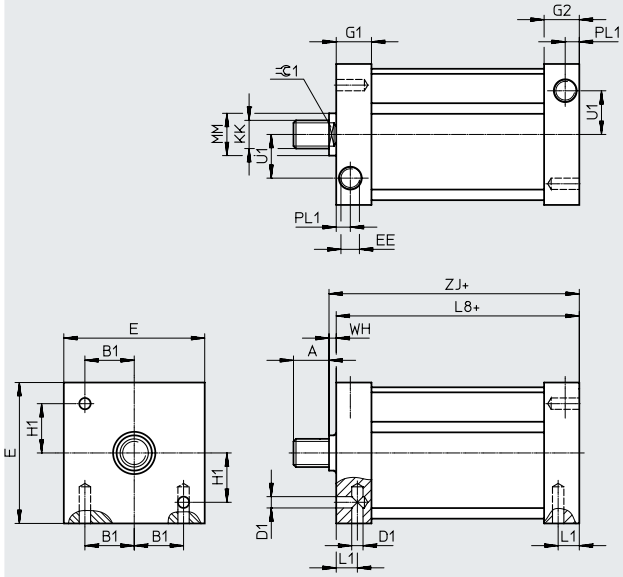


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.23	6-32 UNC

Dimensions – piston diameter 3/4

Download CAD data ➔ www.festo.com

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



+ = 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

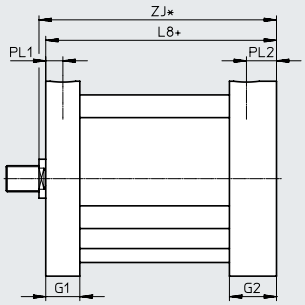
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	≂1
1/8...1	0.28	1	0.31	0.14	0.3	0.13	1.13	0.25
1 1/4...2	0.28	1.56	0.31	0.14	0.3	0.13	1.69	0.25
2 1/2...3	0.28	2.13	0.31	0.14	0.3	0.13	2.26	0.25
3 1/2...4	0.28	2.69	0.31	0.14	0.3	0.13	2.82	0.25

Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



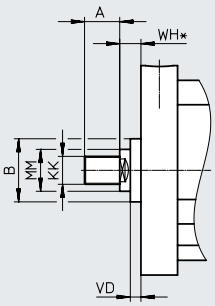
*/+ = plus stroke length

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 diameter 3/4 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

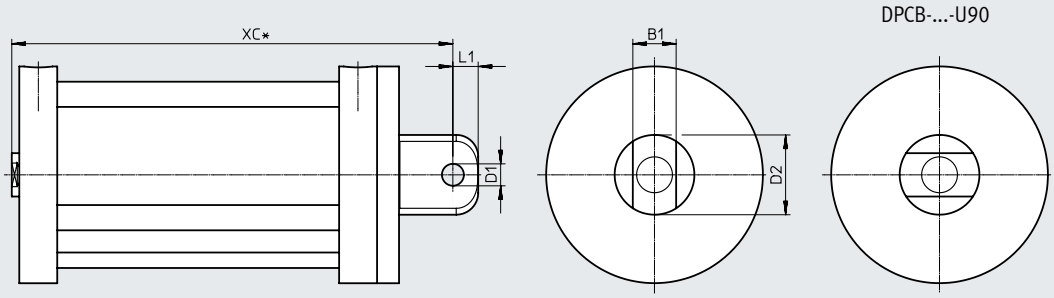
Datasheet

Dimensions – piston diameter 3/4 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



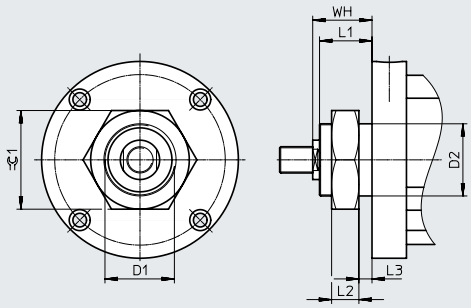
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	L1	XC
1/8...1	0.38	0.19	0.75	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 diameter 3/4 Download CAD data ➔ www.festo.com

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

[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

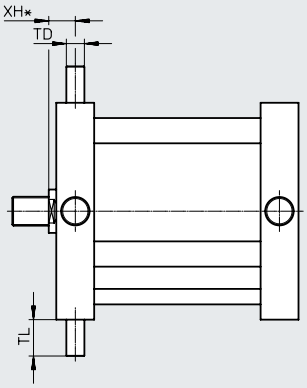
Datasheet

Dimensions – piston diameter 3/4

Download CAD data ➔ www.festo.com

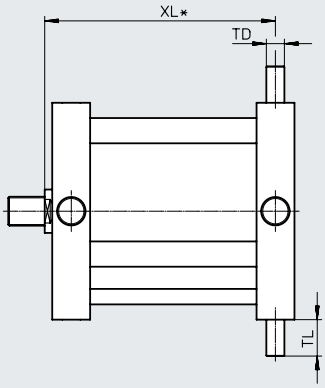
[S] Single-acting, pushing (piston rod retracted by spring force)
[Y2] Trunnion flange mounting position, front

DPCB-...-Y2



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

DPCB-...-Y3



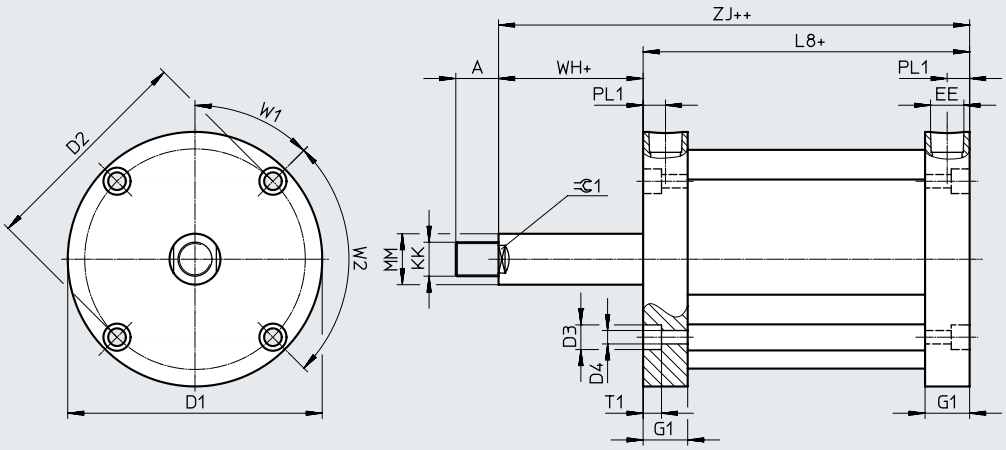
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 1 1/16 Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

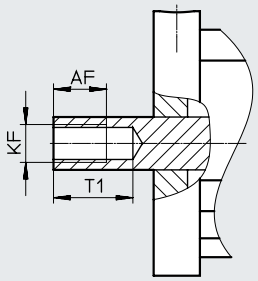
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀G1
1/8...1	1.38	0.5	0.25	0.15	45°	90°	0.13	1.51	0.44
1 1/4...2	2	0.5	0.25	0.15	45°	90°	0.13	2.13	0.44
2 1/2; 3	2.63	0.5	0.25	0.15	45°	90°	0.13	2.76	0.44
3 1/2; 4	3.25	0.5	0.25	0.15	45°	90°	0.13	3.38	0.44

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[F] Internal thread

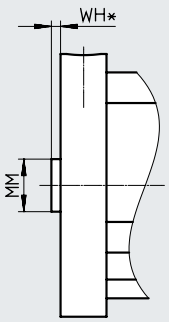
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ⌀	WH
	[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

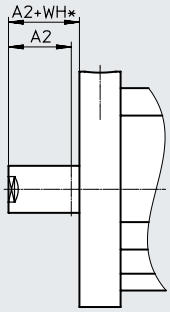
Datasheet

Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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

[NE] Piston rod extension

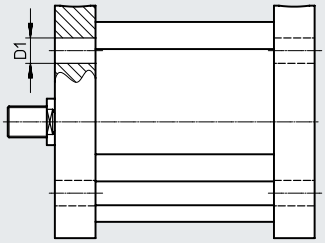


[P] Single-acting, pulling (piston rod advanced by spring force)

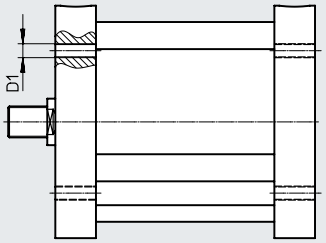
[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB



+ = plus stroke length

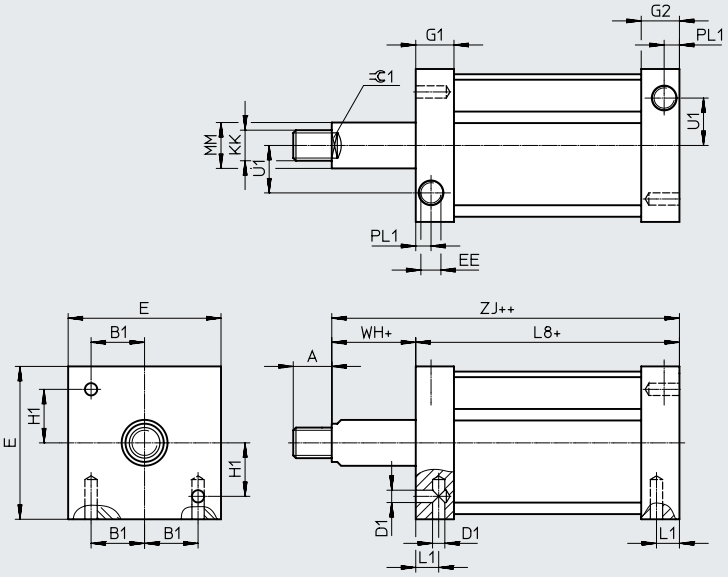
Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.25	6-32 UNC

Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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

[QX] Square cap geometry



+ = plus stroke length

++ = plus 2x 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

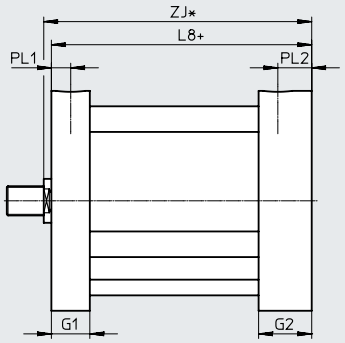
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	⊂1
1/8...1	0.38	1.75	0.5	0.25	0.5	0.13	1.88	0.44
1 1/4...2	0.38	2.38	0.5	0.25	0.5	0.13	2.51	0.44
2 1/2...3	0.38	3	0.5	0.25	0.5	0.13	3.13	0.44
3 1/2...4	0.38	3.63	0.5	0.25	0.5	0.13	3.76	0.44

Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

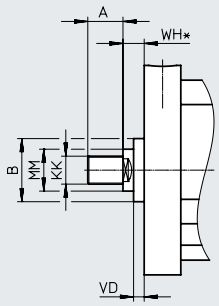
+ = plus stroke length

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 diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

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

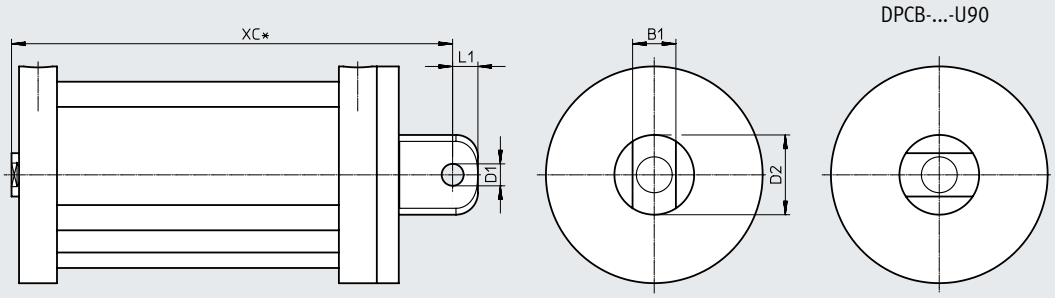
Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



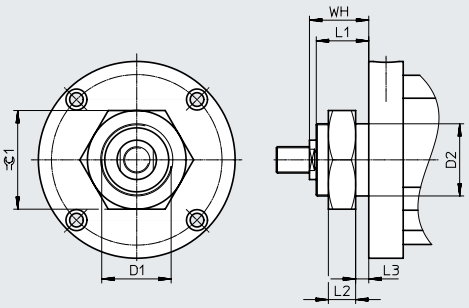
* = plus 2x stroke length

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 diameter 1 1/16 Download CAD data ➔ 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

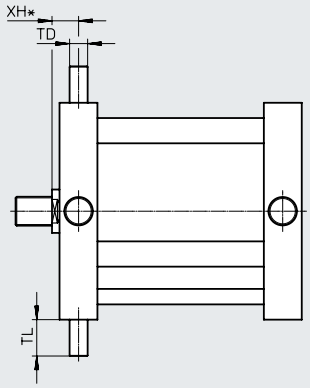
Datasheet

Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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

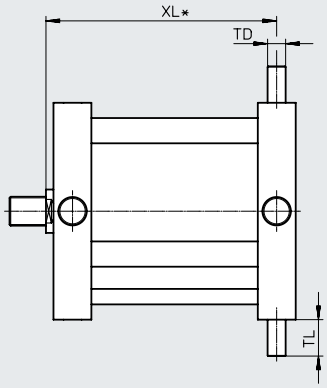
DPCB-...-Y2



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 [Y2]	XL [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 diameter 1 1/16

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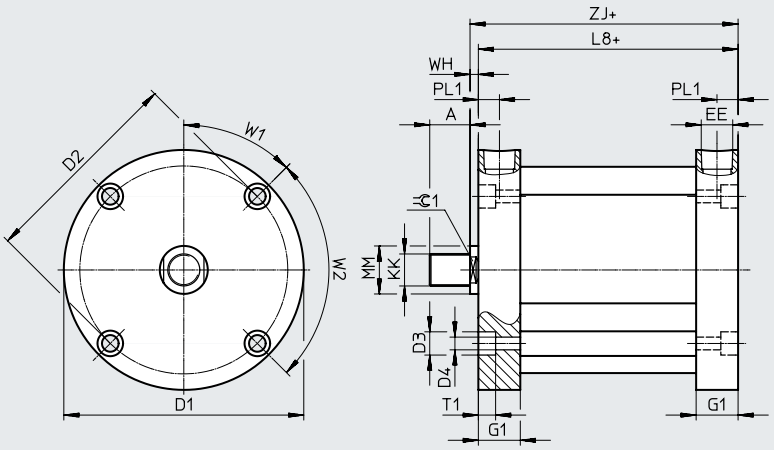
[S] Single-acting, pushing (piston rod retracted by spring force)



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

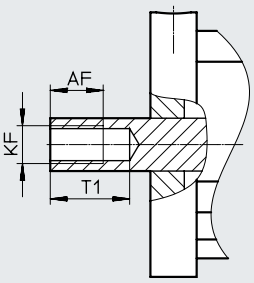
Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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

[F] Internal thread

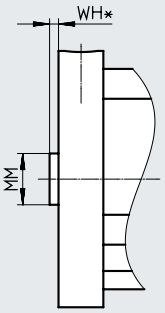
DPCB-...-F



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

[N] No thread

DPCB-...-N



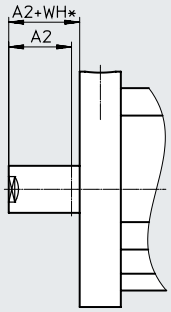
Stroke [in]	AF	KF		T1	MM Ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.427	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/4	0.552	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
3/8	0.677	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
1/2	0.802	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13
5/8...4	0.7	5/16-18 UNC	5/16-24 UNF	–	0.5	0.13

Datasheet

Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

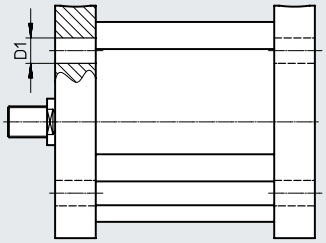
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



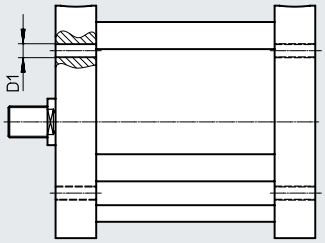
+ = plus stroke length

[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

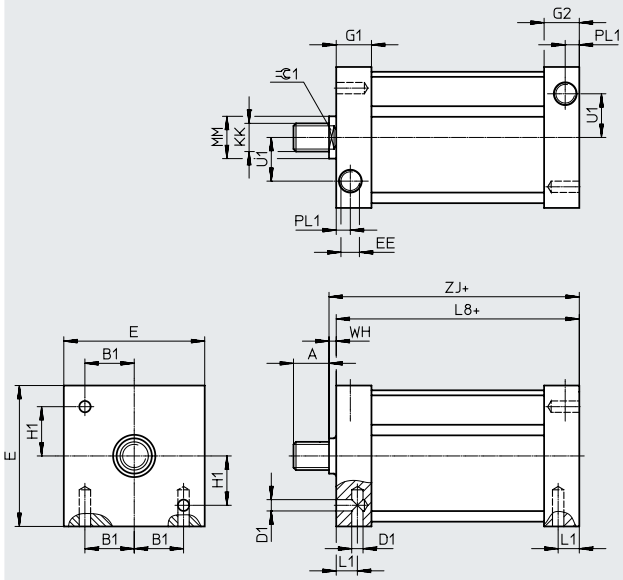


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.25	6-32 UNC

Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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



+ = 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

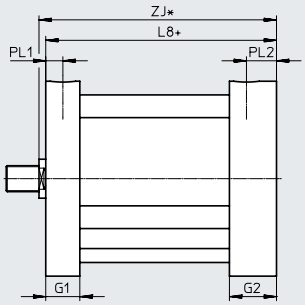
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	⫩1
1/8...1	0.38	1.25	0.5	0.25	0.5	0.13	1.38	0.44
1 1/4...2	0.38	1.88	0.5	0.25	0.5	0.13	2.01	0.44
2 1/2...3	0.38	2.5	0.5	0.25	0.5	0.13	2.63	0.44
3 1/2...4	0.38	3.13	0.5	0.25	0.5	0.13	3.26	0.44

Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



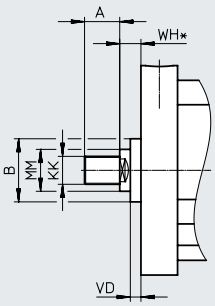
*/+ = plus stroke length

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 diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

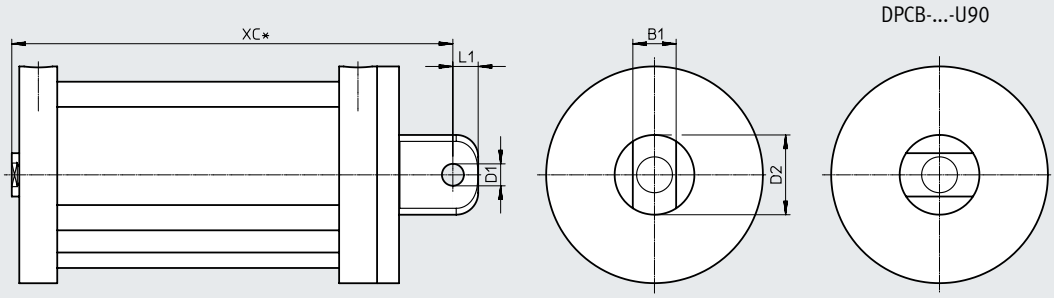
Datasheet

Dimensions – piston diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



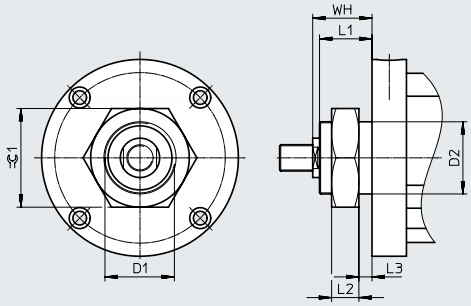
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	L1	XC
1/8...1	0.38	0.19	0.75	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 diameter 1 1/16 Download CAD data ➔ www.festo.com

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

[FT] Flange thread, front



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

Datasheet

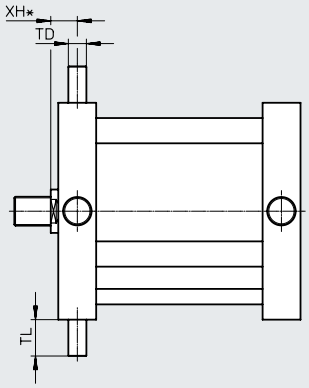
Dimensions – piston diameter 1 1/16

Download CAD data ➔ www.festo.com

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

[Y2] Trunnion flange mounting position, front

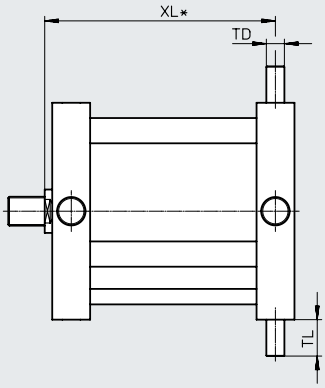
DPCB-...-Y2



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

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



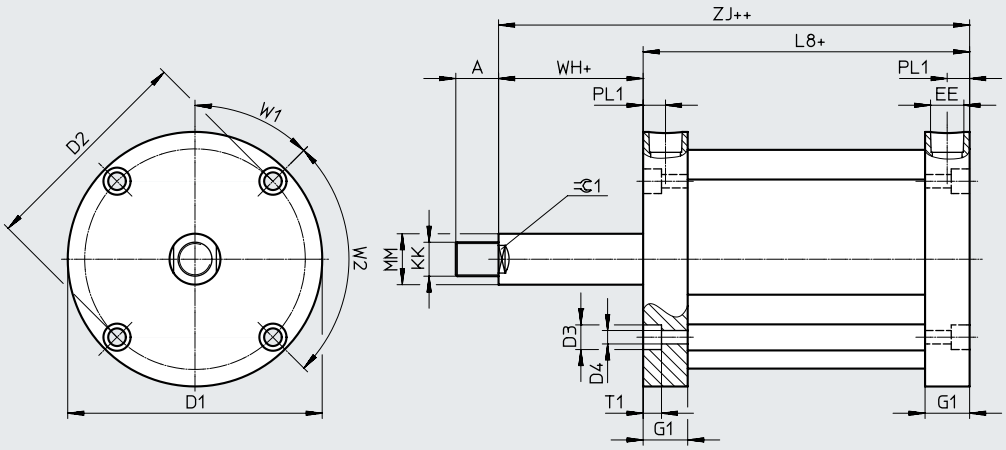
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 1 1/2 Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

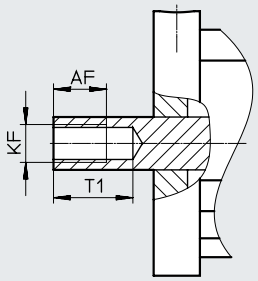
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀G1
1/8...1	1.38	0.63	0.25	0.22	45°	90°	0.13	1.51	0.5
1 1/4...2	2	0.63	0.25	0.22	45°	90°	0.13	2.13	0.5
2 1/2; 3	2.63	0.63	0.25	0.22	45°	90°	0.13	2.76	0.5
3 1/2; 4	3.25	0.63	0.25	0.22	45°	90°	0.13	3.38	0.5

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[F] Internal thread

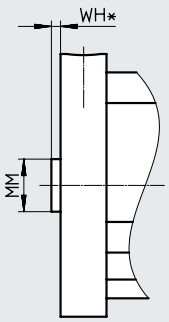
DPCB-...-F



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

[N] No thread

DPCB-...-N



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

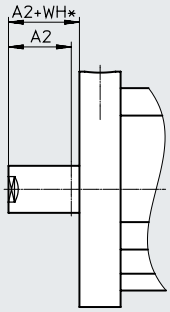
Datasheet

Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

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

[NE] Piston rod extension

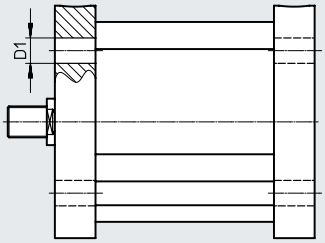


[P] Single-acting, pulling (piston rod advanced by spring force)

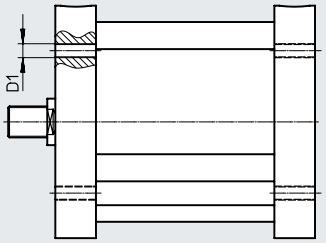
[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB



+ = plus stroke length

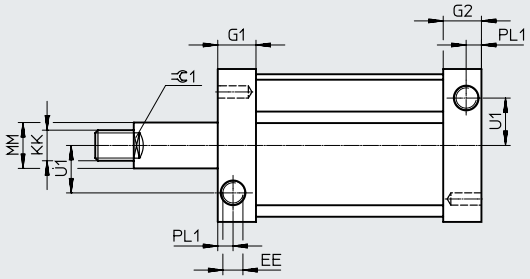
Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

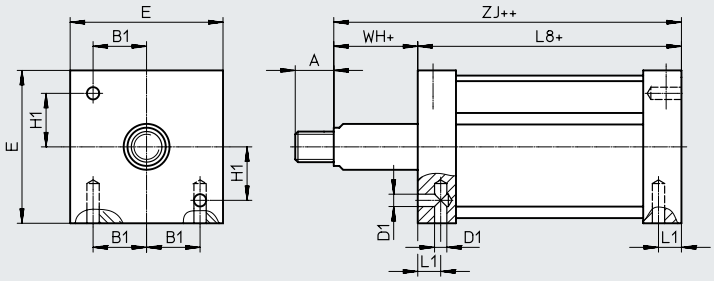
Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

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

[QX] Square cap geometry





+ = 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

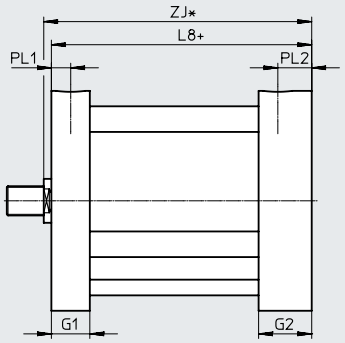
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	⫥1
1/8...1	0.31	1.75	0.63	0.25	0.73	0.13	1.88	0.5
1 1/4...2	0.31	2.38	0.63	0.25	0.73	0.13	2.51	0.5
2 1/2...3	0.31	3	0.63	0.25	0.73	0.13	3.13	0.5
3 1/2...4	0.31	3.63	0.63	0.25	0.73	0.13	3.76	0.5

Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

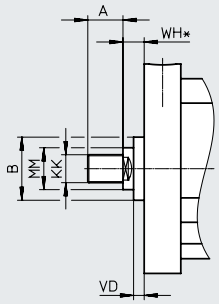
+ = plus stroke length

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 diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

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

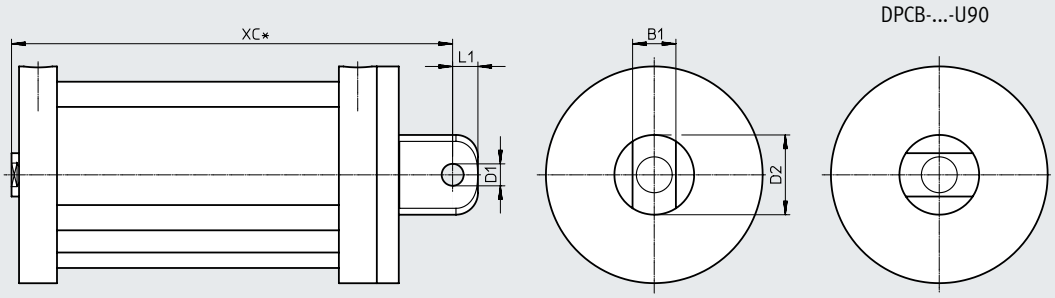
Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



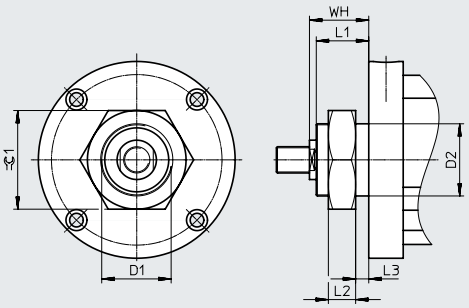
* = plus 2x stroke length

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 diameter 1 1/2 Download CAD data ➔ 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

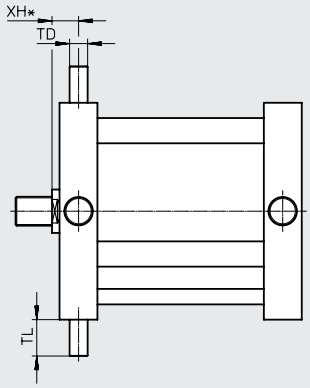
Datasheet

Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

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

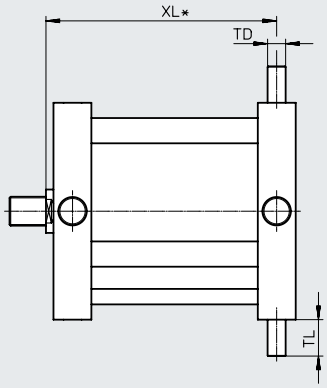
DPCB-...-Y2



XH* = plus stroke length

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

DPCB-...-Y3



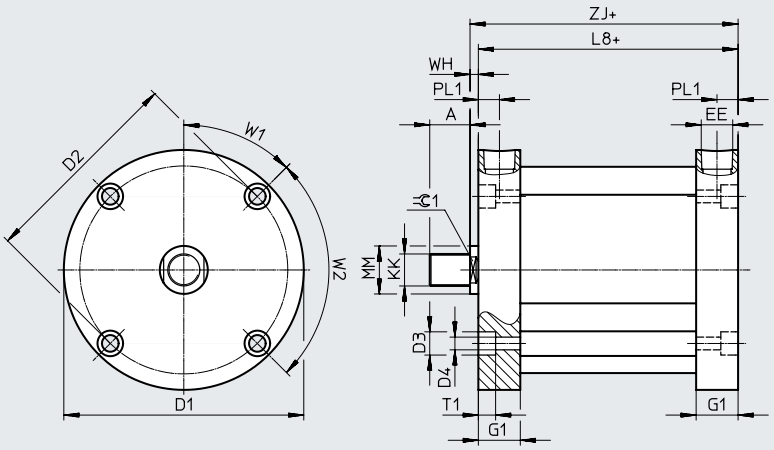
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 1 1/2 Download CAD data ➔ 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

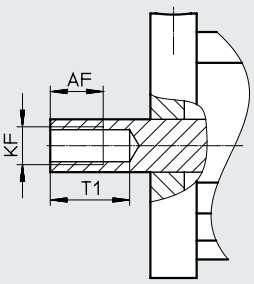
Stroke [in]	L8	MM Ø	PL1	T1	W1	W2	WH	ZJ	C1
1/8...1	0.88	0.63	0.25	0.22	45°	90°	0.13	1.01	0.5
1 1/4...2	1.5	0.63	0.25	0.22	45°	90°	0.13	1.63	0.5
2 1/2; 3	2.13	0.63	0.25	0.22	45°	90°	0.13	2.26	0.5
3 1/2; 4	2.75	0.63	0.25	0.22	45°	90°	0.13	2.88	0.5

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[F] Internal thread

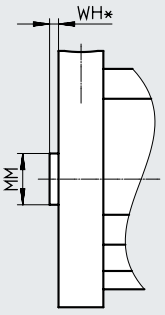
DPCB-...-F



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

[N] No thread

DPCB-...-N



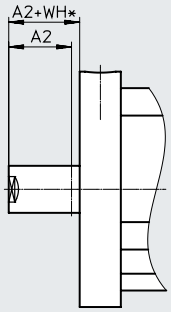
Stroke [in]	AF	KF		T1	MM Ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8...4	0.75	3/8-16 UNC	3/8-24 UNF	1.125	0.63	0.13

Datasheet

Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

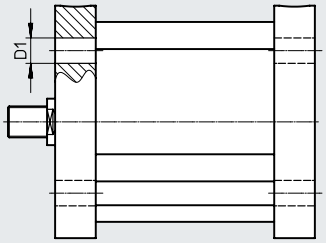
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



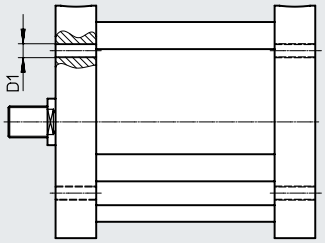
+ = plus stroke length

[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

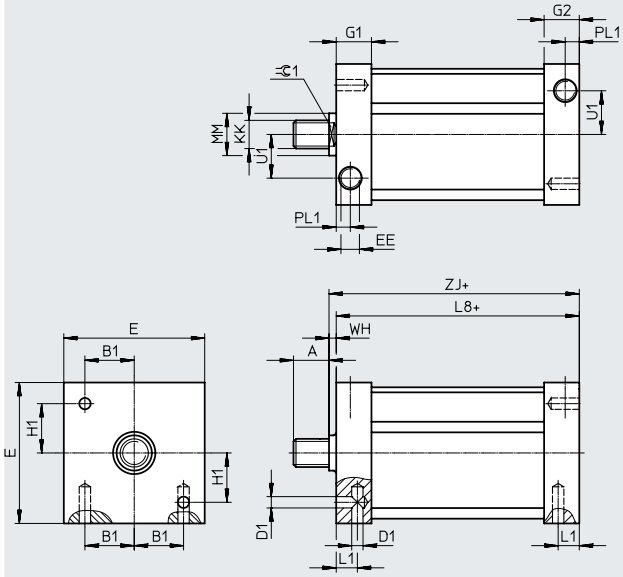


Stroke [in]	A2		WH	D1 Ø	D1 Ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

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



+ = plus stroke length

Stroke [in]	A	B1	D1 Ø	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

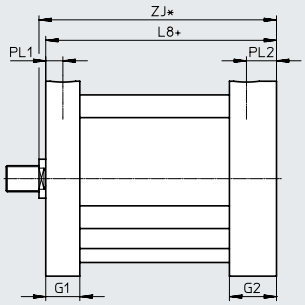
Stroke [in]	L1	L8	MM Ø	PL1	U1	WH	ZJ	⌯1
1/8...1	0.31	1.25	0.63	0.25	0.73	0.13	1.38	0.5
1 1/4...2	0.31	1.88	0.63	0.25	0.73	0.13	2.01	0.5
2 1/2...3	0.31	2.5	0.63	0.25	0.73	0.13	2.63	0.5
3 1/2...4	0.31	3.13	0.63	0.25	0.73	0.13	3.16	0.5

Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



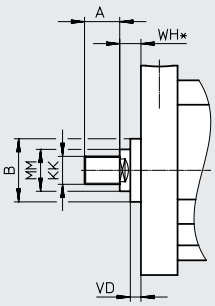
*/+ = plus stroke length

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 diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

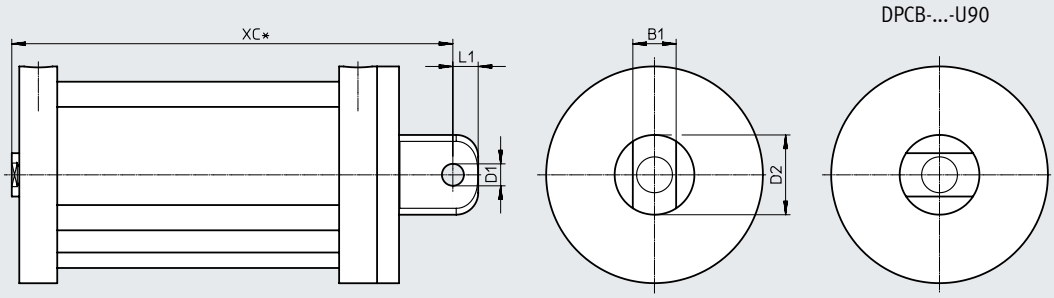
Datasheet

Dimensions – piston diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



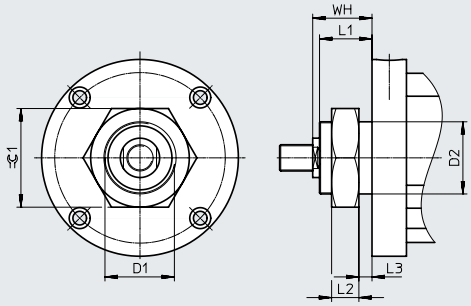
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 1 1/2 Download CAD data ➔ www.festo.com

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

[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

Datasheet

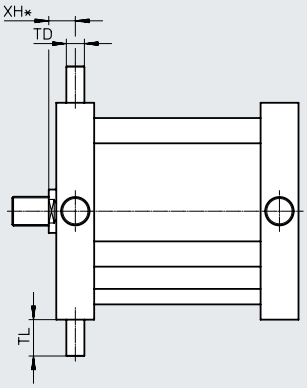
Dimensions – piston diameter 1 1/2

Download CAD data ➔ www.festo.com

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

[Y2] Trunnion flange mounting position, front

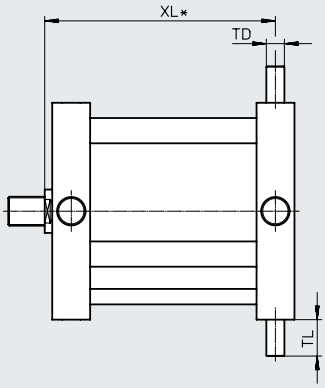
DPCB-...-Y2



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

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



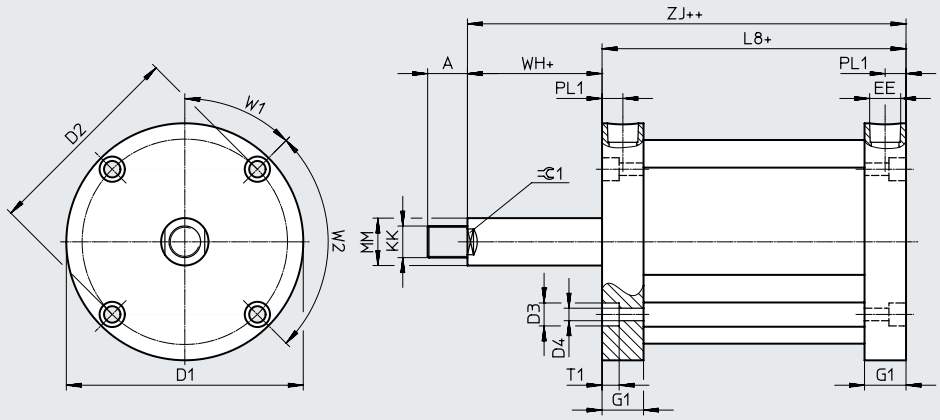
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 2 Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

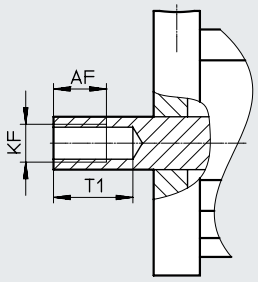
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀C1
1/8...1	1.44	0.75	0.25	0.22	45°	90°	0.13	1.57	0.63
1 1/4...2	2.06	0.75	0.25	0.22	45°	90°	0.13	2.19	0.63
2 1/2; 3	2.69	0.75	0.25	0.22	45°	90°	0.13	2.82	0.63
3 1/2; 4	–	0.75	0.25	0.22	45°	90°	0.13	–	0.63

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[F] Internal thread

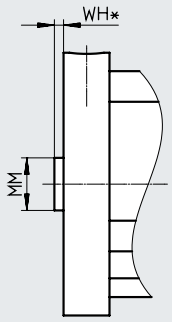
DPCB-...-F



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

[N] No thread

DPCB-...-N



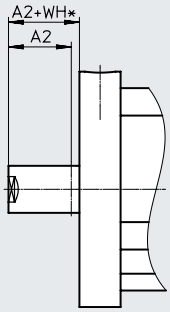
Stroke [in]	AF	KF		T1	MM ⌀	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.3	1/2-13 UNC	1/2-20 UNF	0.45	0.75	0.13
1/4	0.4	1/2-13 UNC	1/2-20 UNF	0.562	0.75	0.13
3/8	0.53	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
3/4	0.75	1/2-13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

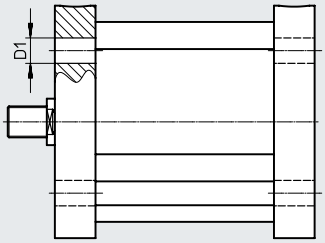
Download CAD data ➔ www.festo.com

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

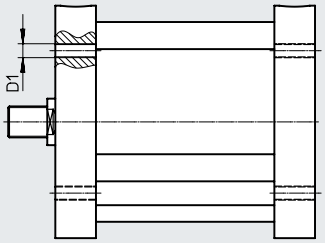


[P] Single-acting, pulling (piston rod advanced by spring force)
[CB] Through-holes, at both ends
[MB] Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB



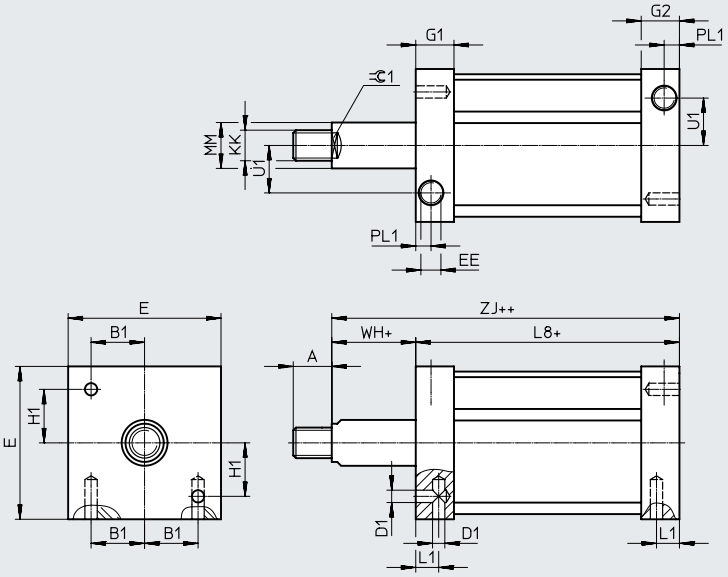
+ = plus stroke length

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

Dimensions – piston diameter 2

Download CAD data ➔ www.festo.com

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



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

Stroke [in]	A	B1	D1 Ø	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

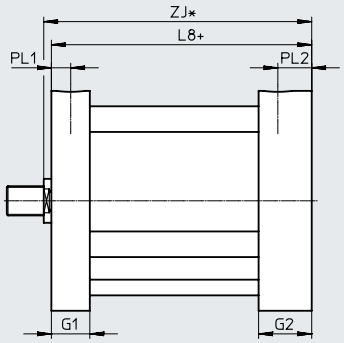
Stroke [in]	L1	L8	MM Ø	PL1	U1	WH	ZJ	⊂1
1/8...1	0.38	1.81	0.75	0.25	0.77	0.13	1.94	0.63
1 1/4...2	0.38	2.44	0.75	0.25	0.77	0.13	2.57	0.63
2 1/2...3	0.38	3.06	0.75	0.25	0.77	0.13	3.16	0.63
3 1/2...4	0.38	–	0.75	0.25	0.77	0.13	–	0.63

Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

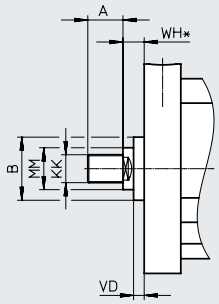
+ = plus stroke length

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 diameter 2 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

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

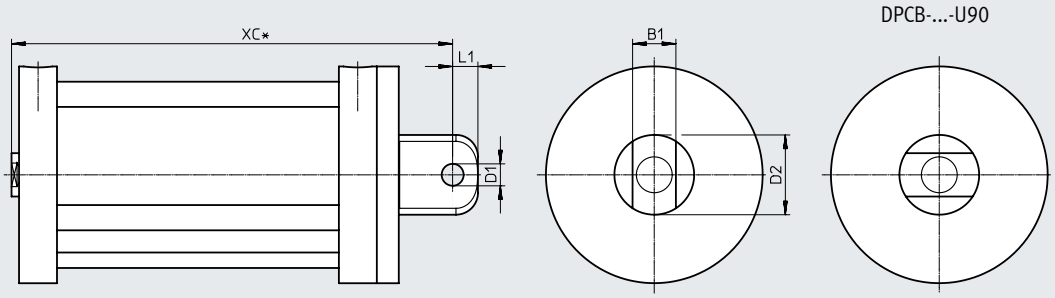
Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



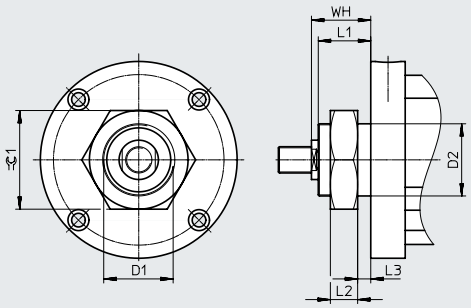
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 2 Download CAD data ➔ www.festo.com

[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 3/8-12 UNF-2A	1.38	0.88	0.52	0.19	1.01	1.88

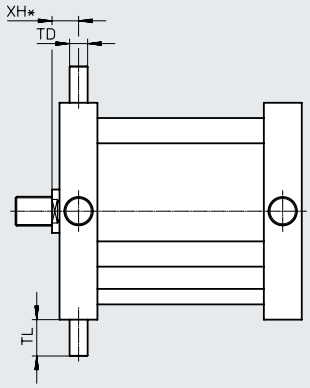
Datasheet

Dimensions – piston diameter 2

Download CAD data ➔ www.festo.com

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

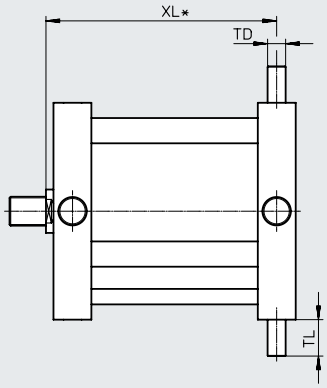
DPCB-...-Y2



XH* = plus stroke length

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

DPCB-...-Y3



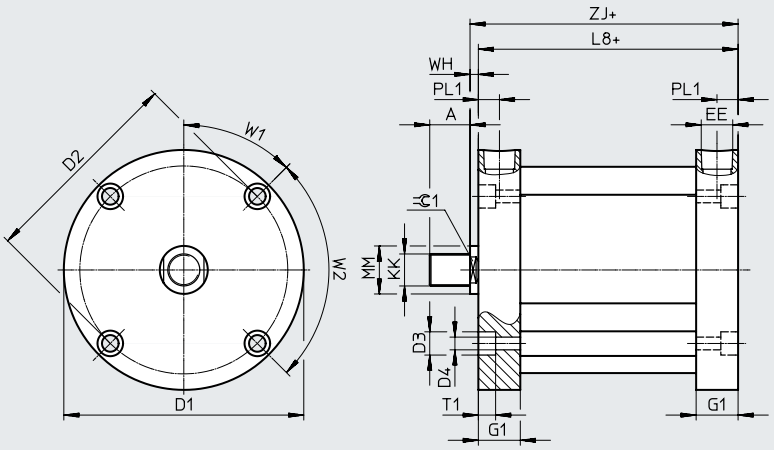
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 2 Download CAD data ➔ 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

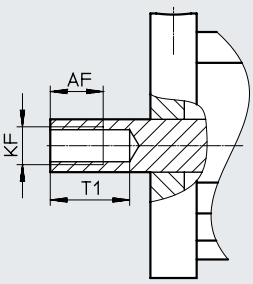
Stroke [in]	L8	MM Ø	PL1	T1	W1	W2	WH	ZJ	⌀1
1/8...1	0.94	0.75	0.25	0.22	45°	90°	0.13	1.07	0.63
1 1/4...2	1.56	0.75	0.25	0.22	45°	90°	0.13	1.69	0.63
2 1/2; 3	2.19	0.75	0.25	0.22	45°	90°	0.13	2.32	0.63
3 1/2; 4	2.81	0.75	0.25	0.22	45°	90°	0.13	2.94	0.63

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[F] Internal thread

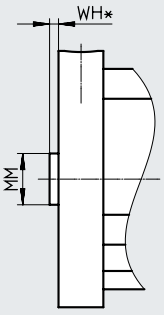
DPCB-...-F



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

[N] No thread

DPCB-...-N



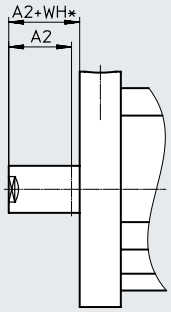
Stroke [in]	AF	KF		T1	MM Ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.3	1/2-13 UNC	1/2-20 UNF	0.45	0.75	0.13
1/4	0.4	1/2-13 UNC	1/2-20 UNF	0.562	0.75	0.13
3/8	0.53	1/2-13 UNC	1/2-20 UNF	1.0625	0.75	0.13
1/2	0.75	1/2-13 UNC	1/2-20 UNF	1.1875	0.75	0.13
5/8	0.75	1/2-13 UNC	1/2-20 UNF	1.3125	0.75	0.13
3/4	0.75	1/2-13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

Download CAD data ➔ www.festo.com

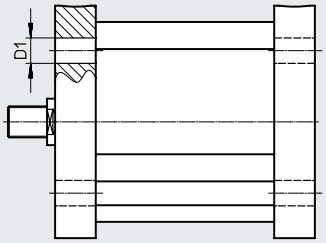
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



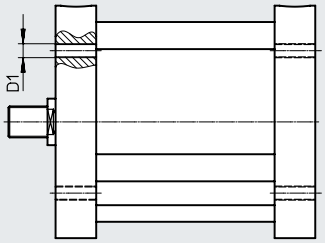
+ = plus stroke length

[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

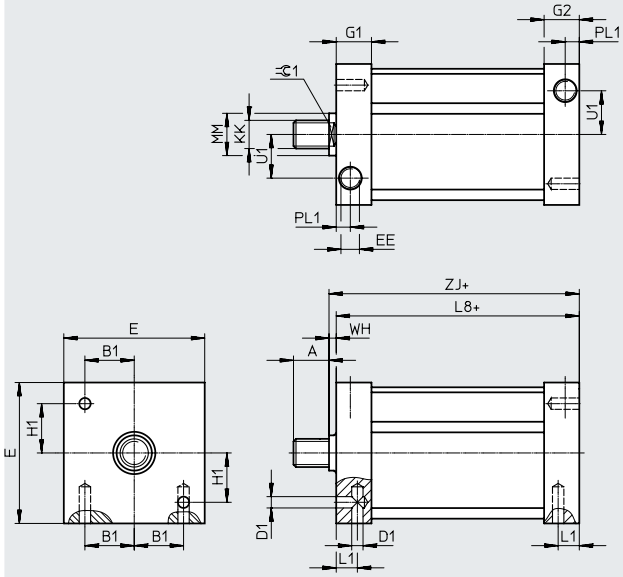


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.34	10-24 UNC

Dimensions – piston diameter 2

Download CAD data ➔ www.festo.com

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



+ = 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

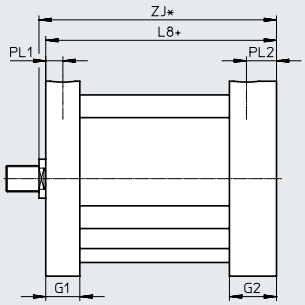
Stroke [in]	L1	L8	MM ⌀	PL1	U1	WH	ZJ	≂1
1/8...1	0.38	1.31	0.75	0.25	0.77	0.13	1.44	0.63
1 1/4...2	0.38	1.94	0.75	0.25	0.77	0.13	2.07	0.63
2 1/2...3	0.38	2.56	0.75	0.25	0.77	0.13	2.69	0.63
3 1/2...4	0.38	3.19	0.75	0.25	0.77	0.13	3.32	0.63

Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



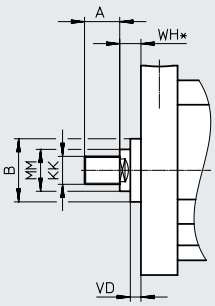
*/+ = plus stroke length

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 diameter 2 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

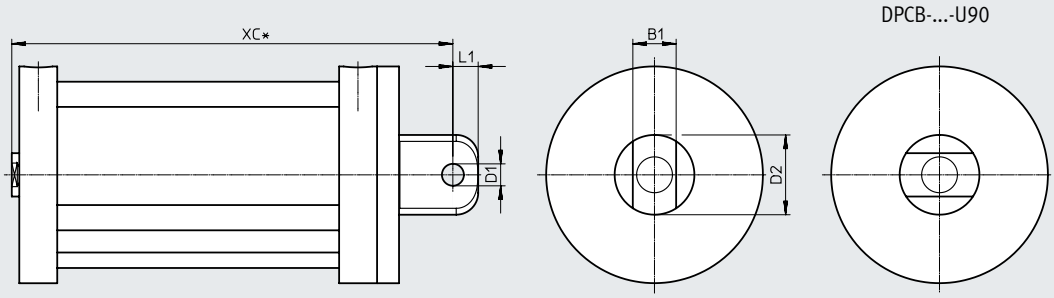
Datasheet

Dimensions – piston diameter 2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



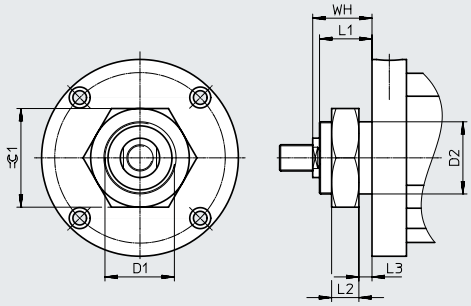
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 2 Download CAD data ➔ www.festo.com

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

[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

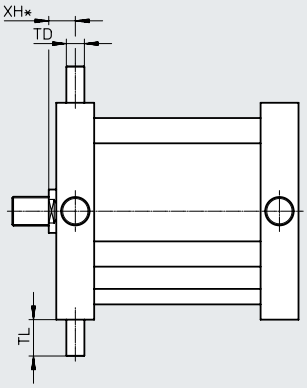
Datasheet

Dimensions – piston diameter 2

Download CAD data ➔ www.festo.com

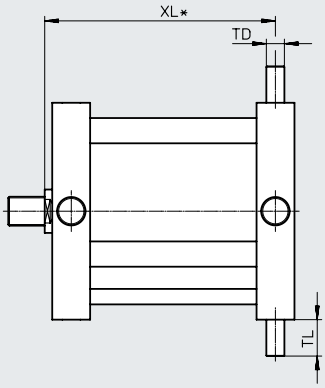
[S] Single-acting, pushing (piston rod retracted by spring force)
[Y2] Trunnion flange mounting position, front

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

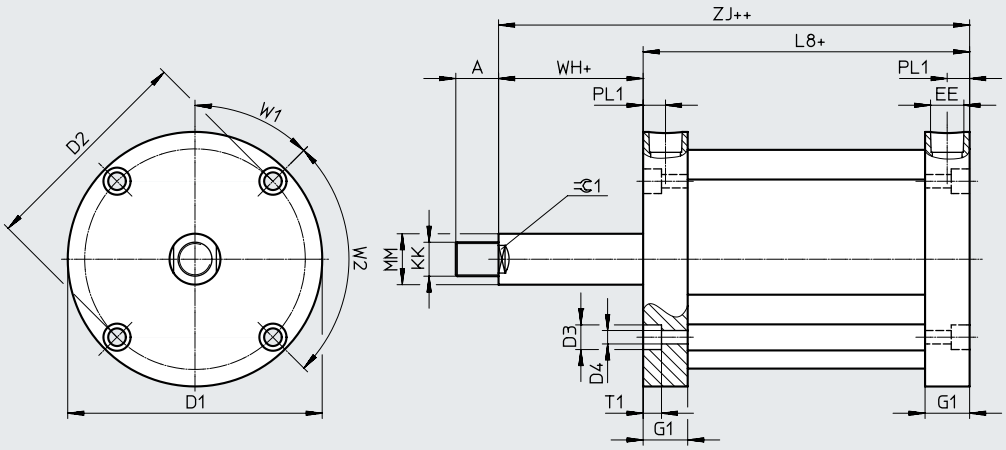
Stroke [in]	TD	TL	XH [Y2]	XL [Y3]
1/8...1	0.25	0.5	0.38	0.82
1 1/4...2	0.25	0.5	0.38	1.44
2 1/2...3	0.25	0.5	0.38	2.07
3 1/2...4	0.25	0.5	0.38	2.69

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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 ⌀	PL1	T1	W1	W2	WH	ZJ	⌀C1
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

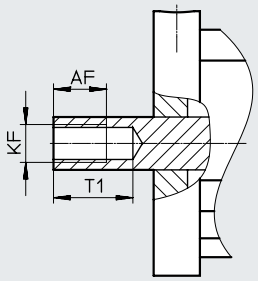
Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

[F] Internal thread

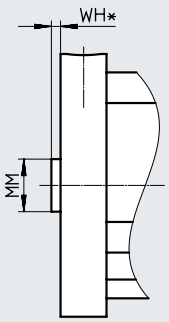
DPCB-...-F



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

[N] No thread

DPCB-...-N



Stroke [in]	AF	KF		T1	MM ⌀	WH
	[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

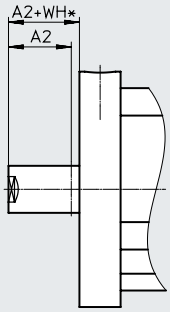
Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

[NE] Piston rod extension

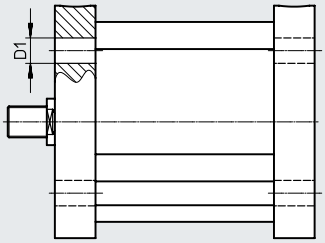


[P] Single-acting, pulling (piston rod advanced by spring force)

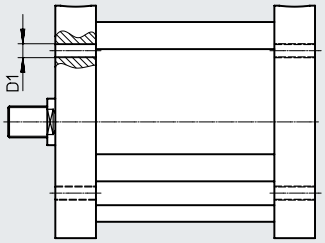
[CB] Through-holes, at both ends

[MB] Mounting thread, at both ends

DPCB-...-CB



DPCB-...-MB



+ = plus stroke length

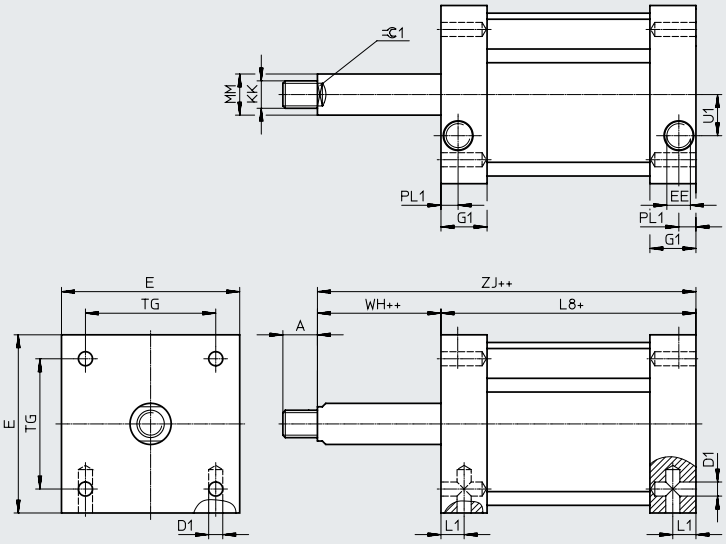
Stroke [in]	A2		WH	D1 Ø	D1 Ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

[QX] Square cap geometry



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 Ø	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

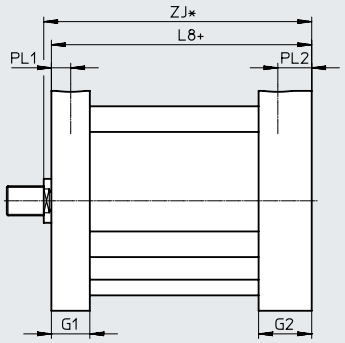
Stroke [in]	L8	MM Ø	PL1	TG	U1	WH	ZJ	⌀C1
1/8...1	2.39	0.75	0.31	2.36	0.75	0.13	2.52	0.63
1 1/4...2	3.27	0.75	0.31	2.36	0.75	0.13	3.40	0.63
2 1/2...3	3.29	0.75	0.31	2.36	0.75	0.13	3.52	0.63
3 1/2...4	–	0.75	0.31	2.36	0.75	0.13	–	0.63

Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

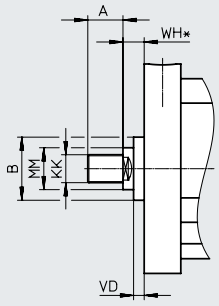
+ = plus stroke length

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 diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

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

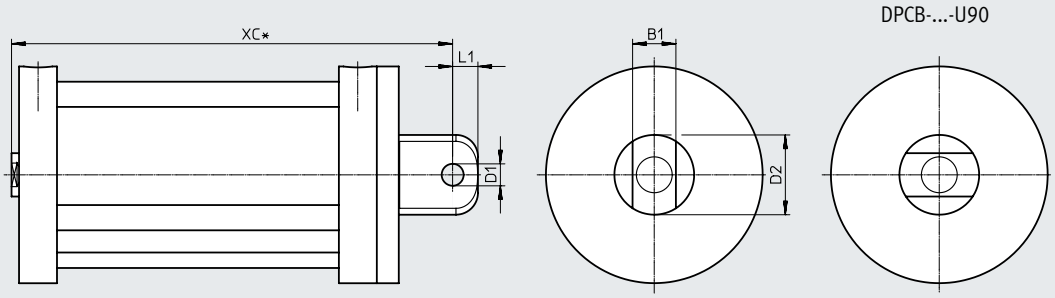
Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



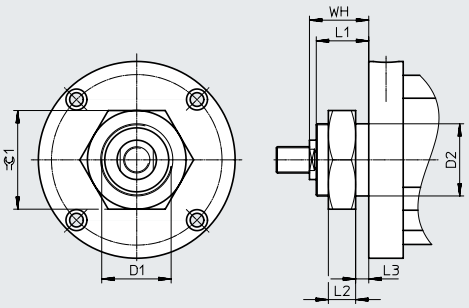
* = plus 2x stroke length

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 diameter 2 1/2 Download CAD data ➔ 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

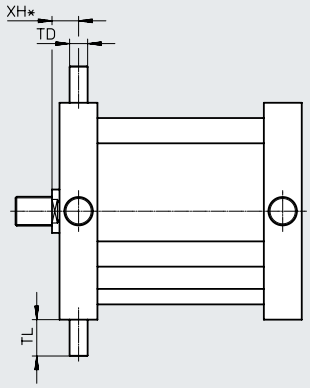
Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

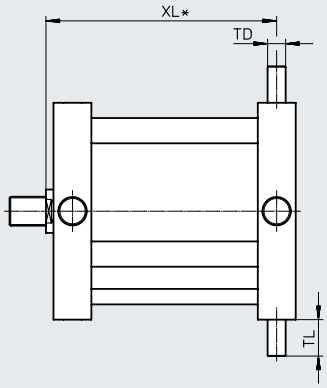
DPCB-...-Y2



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

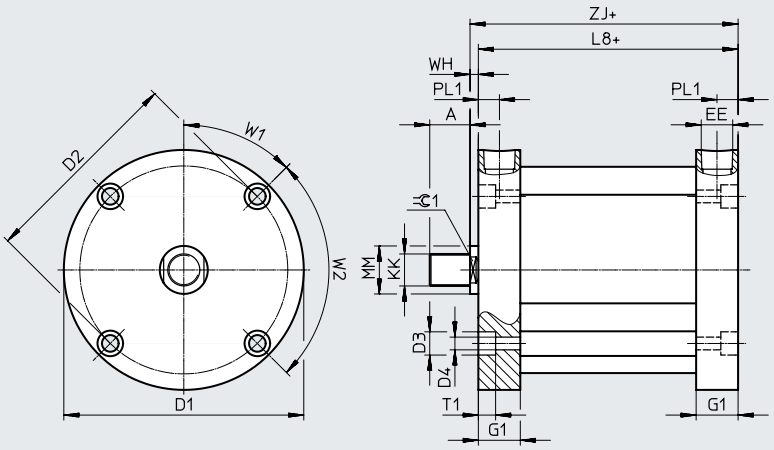
Stroke [in]	TD	TL	XH [Y2]	XL [Y3]
1/8...1	0.312	0.63	0.46	1.74
1 1/4...2	0.312	0.63	0.46	2.61
2 1/2...3	0.312	0.63	0.46	2.61
3 1/2...4	0.312	0.63	0.46	–

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ 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

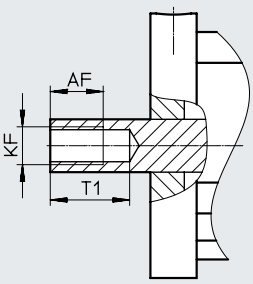
Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

[F] Internal thread

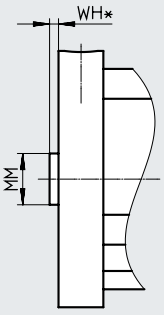
DPCB-...-F



[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]	[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

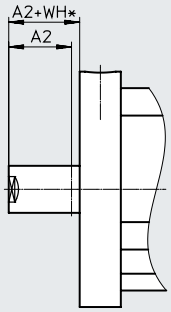
0.6

Datasheet

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

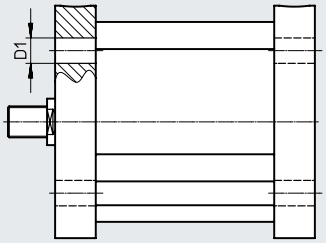
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



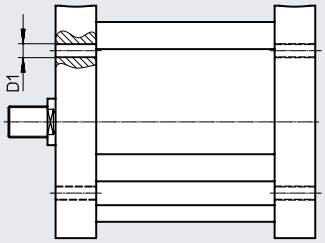
+ = plus stroke length

[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

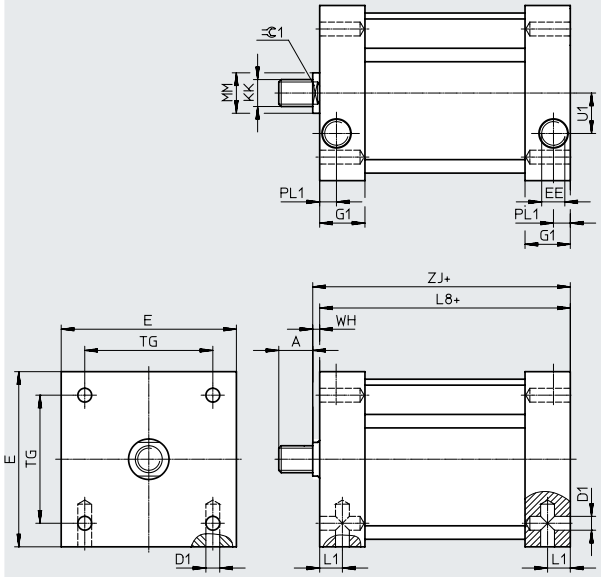


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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



+ = 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

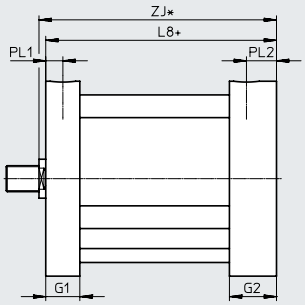
Stroke [in]	L8	MM ⌀	PL1	TG	U1	WH	ZJ	⌀C1
1/8...1	1.66	0.75	0.31	2.36	0.75	0.13	1.79	0.63
1 1/4...2	2.54	0.75	0.31	2.36	0.75	0.13	2.67	0.63
2 1/2...3	3.41	0.75	0.31	2.36	0.75	0.13	3.54	0.63
3 1/2...4	4.29	0.75	0.31	2.36	0.75	0.13	4.42	0.63

Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



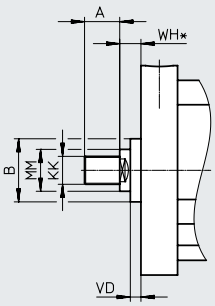
*/+ = plus stroke length

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 diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

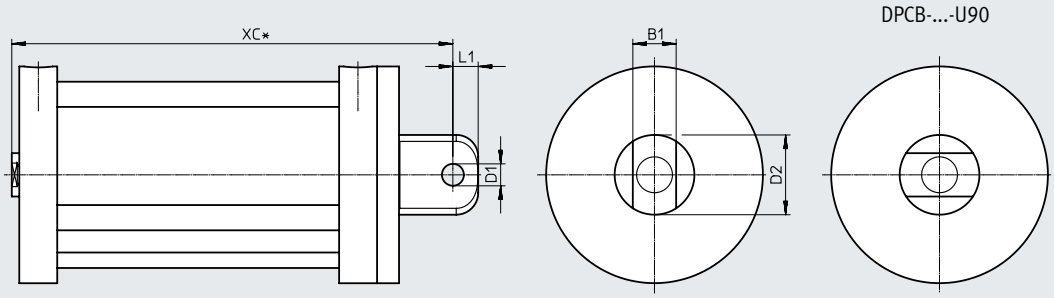
Datasheet

Dimensions – piston diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



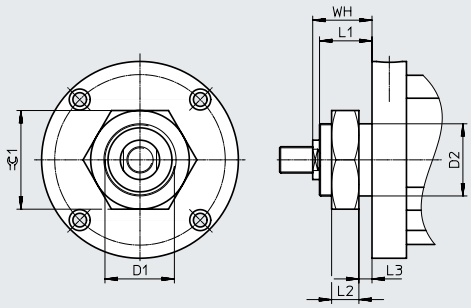
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 2 1/2 Download CAD data ➔ www.festo.com

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

[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

Datasheet

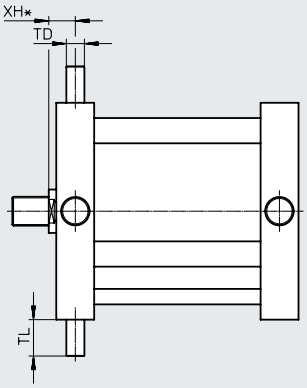
Dimensions – piston diameter 2 1/2

Download CAD data ➔ www.festo.com

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

[Y2] Trunnion flange mounting position, front

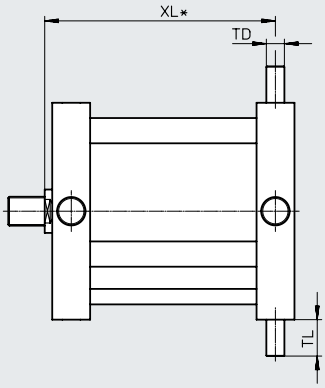
DPCB-...-Y2



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

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



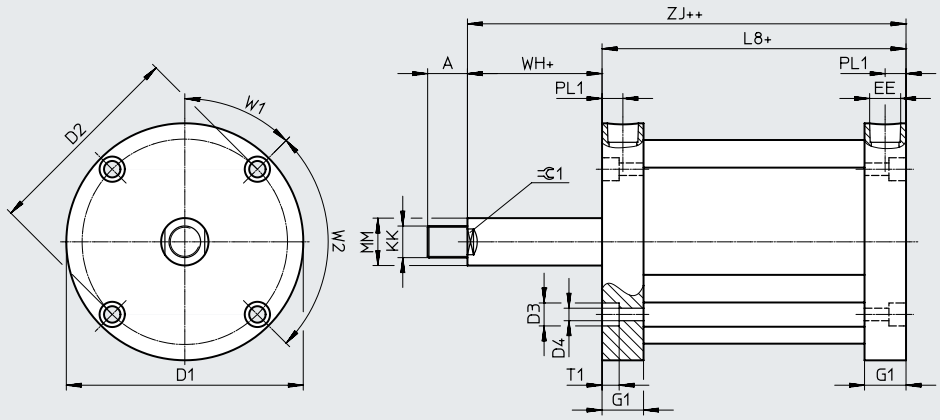
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 3 Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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

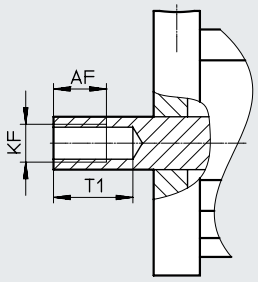
Stroke [in]	L8	MM ⌀	PL1	T1	W1	W2	WH	ZJ	⌀C1
1/8...1	2	0.88	0.33	0.27	45°	90°	0.13	2.13	0.75
1 1/4...2	2.88	0.88	0.33	0.27	45°	90°	0.13	3.01	0.75
2 1/2; 3	2.88	0.88	0.33	0.27	45°	90°	0.13	3.01	0.75
3 1/2; 4	–	0.88	0.33	0.27	45°	90°	0.13	–	0.75

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

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

[F] Internal thread

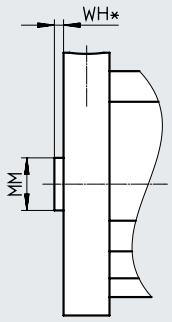
DPCB-...-F



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

[N] No thread

DPCB-...-N



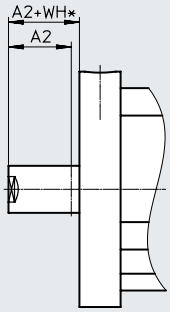
Stroke [in]	AF	KF		T1	MM ⌀	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.45	5/8-11 UNC	5/8-18 UNF	0.6	0.88	0.13
1/4	0.5	5/8-11 UNC	5/8-18 UNF	0.725	0.88	0.13
3/8	0.625	5/8-11 UNC	5/8-18 UNF	0.85	0.88	0.13
1/2	0.75	5/8-11 UNC	5/8-18 UNF	0.975	0.88	0.13
5/8	0.8125	5/8-11 UNC	5/8-18 UNF	1.1	0.88	0.13
3/4	0.8125	5/8-11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

Download CAD data ➔ www.festo.com

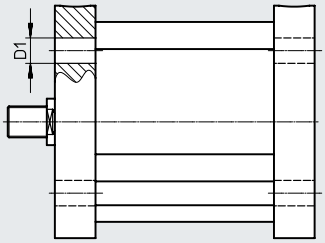
[P] Single-acting, pulling (piston rod advanced by spring force)
[NE] Piston rod extension



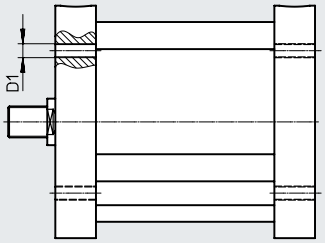
+ = plus stroke length

[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

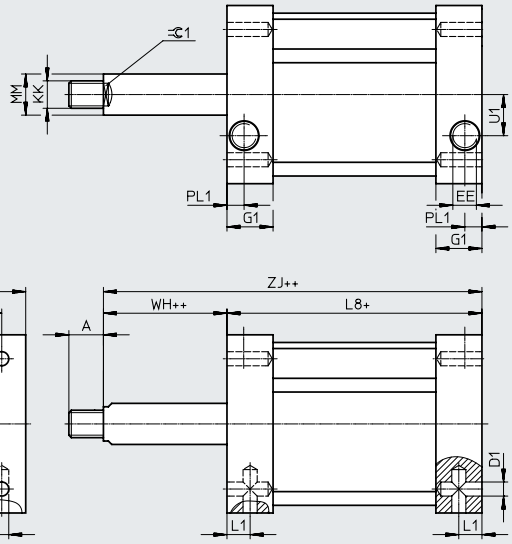


Stroke [in]	A2		WH	D1 Ø	D1 Ø
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

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



+ = plus stroke length
++ = plus 2x 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

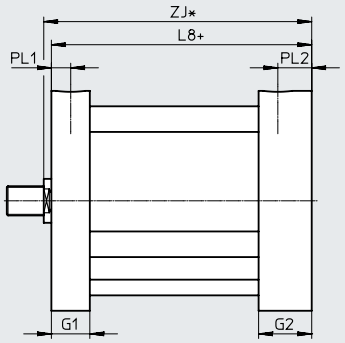
Stroke [in]	L8	MM Ø	PL1	TG	U1	WH	ZJ	SW1
1/8...1	2.44	0.88	0.31	2.88	0.88	0.13	2.57	0.75
1 1/4...2	3.31	0.88	0.31	2.88	0.88	0.13	3.44	0.75
2 1/2...3	3.33	0.88	0.31	2.88	0.88	0.13	3.46	0.75
3 1/2...4	–	0.88	0.31	2.88	0.88	0.13	–	0.75

Datasheet

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

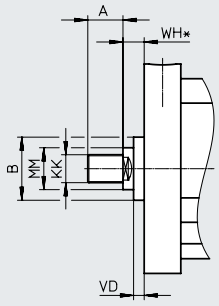
+ = plus stroke length

Stroke [in]	G1	G2	L8	PL1	PL2	ZJ
1/8...1	0.69	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 diameter 3 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

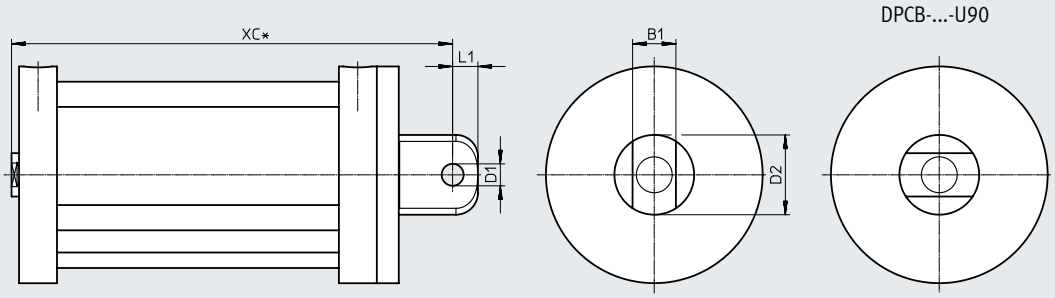
Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



* = plus 2x stroke length

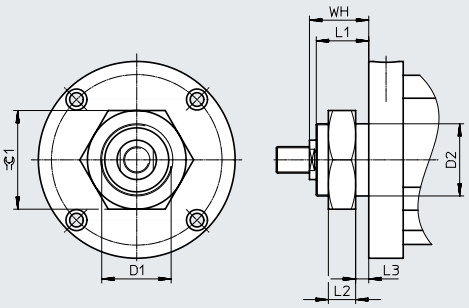
Stroke [in]	B1	D1 ø	D2 ø	L1	XC
1/8...1	1	0.63	1.88	0.56	3.82
1/4...2	1	0.63	1.88	0.56	4.7
2 1/2...3	1	0.63	1.88	0.56	4.7
3 1/2...4	1	0.63	1.88	0.56	–

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

[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 3/8-12 UNF-2A	1.38	1	0.52	0.25	1.13	1.88

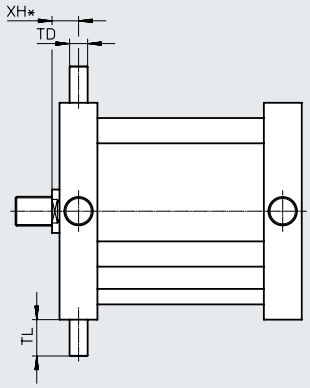
Datasheet

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

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

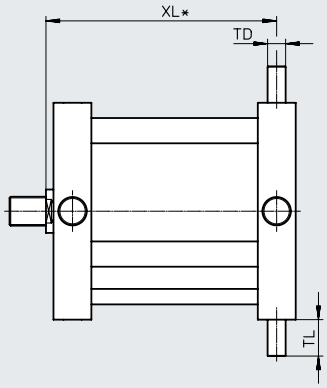
DPCB-...-Y2



XH* = plus stroke length

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

DPCB-...-Y3



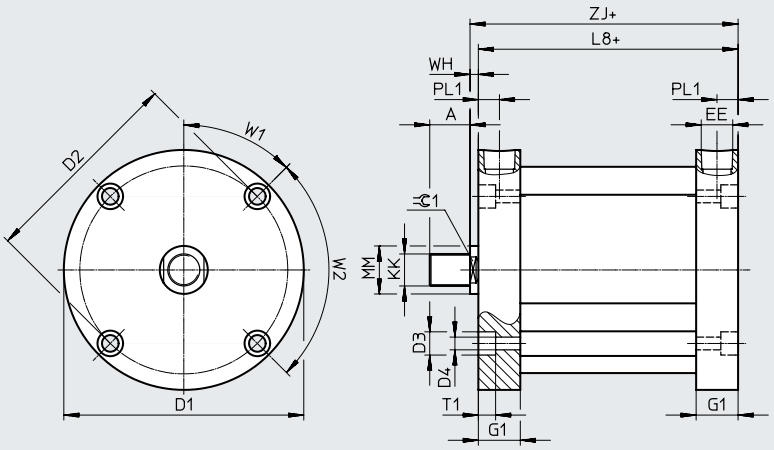
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 3 Download CAD data ➔ 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

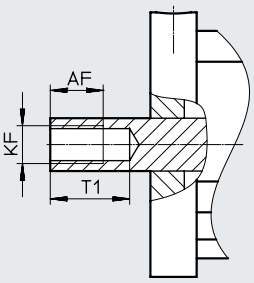
Stroke [in]	L8	MM Ø	PL1	T1	W1	W2	WH	ZJ	⫩1
1/8...1	1.25	0.88	0.33	0.27	45°	90°	0.13	1.38	0.75
1 1/4...2	2.12	0.88	0.33	0.27	45°	90°	0.13	2.25	0.75
2 1/2; 3	3	0.88	0.33	0.27	45°	90°	0.13	3.13	0.75
3 1/2; 4	3.88	0.88	0.33	0.27	45°	90°	0.13	4.01	0.75

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

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

[F] Internal thread

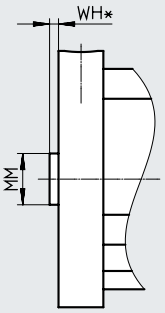
DPCB-...-F



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

[N] No thread

DPCB-...-N



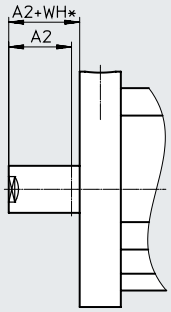
Stroke [in]	AF	KF		T1	MM Ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.45	5/8-11 UNC	5/8-18 UNF	0.6	0.88	0.13
1/4	0.5	5/8-11 UNC	5/8-18 UNF	0.725	0.88	0.13
3/8	0.625	5/8-11 UNC	5/8-18 UNF	0.85	0.88	0.13
1/2	0.75	5/8-11 UNC	5/8-18 UNF	0.975	0.88	0.13
5/8	0.8125	5/8-11 UNC	5/8-18 UNF	1.1	0.88	0.13
3/4	0.8125	5/8-11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

Download CAD data ➔ www.festo.com

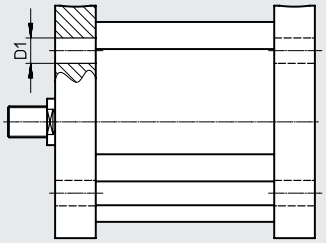
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



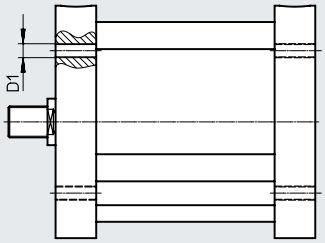
+ = plus stroke length

[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

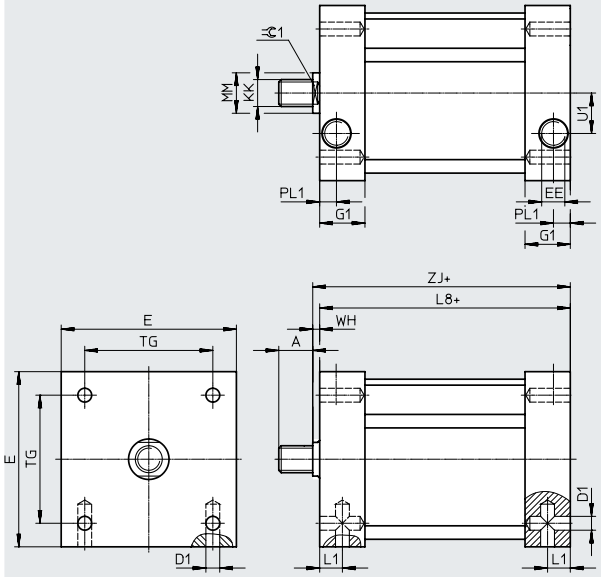


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.41	1/4-20 UNC

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

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



+ = 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

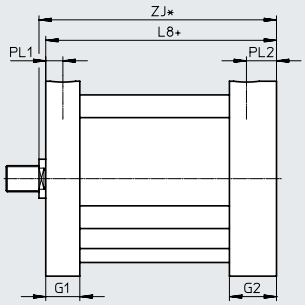
Stroke [in]	L8	MM ⌀	PL1	TG	U1	WH	ZJ	⌀C1
1/8...1	1.71	0.88	0.31	2.88	0.88	0.13	1.84	0.75
1/4...2	2.58	0.88	0.31	2.88	0.88	0.13	2.71	0.75
2 1/2...3	3.46	0.88	0.31	2.88	0.88	0.13	3.59	0.75
3 1/2...4	4.33	0.88	0.31	2.88	0.88	0.13	4.46	0.75

Datasheet

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



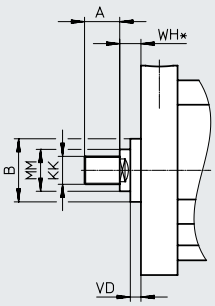
*/+ = plus stroke length

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 diameter 3 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

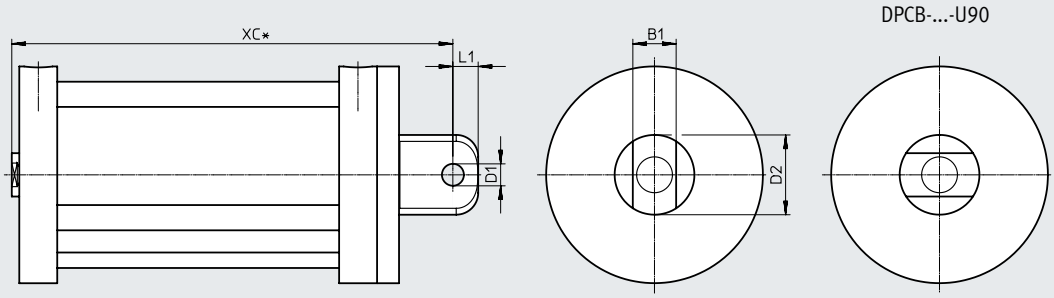
Datasheet

Dimensions – piston diameter 3 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



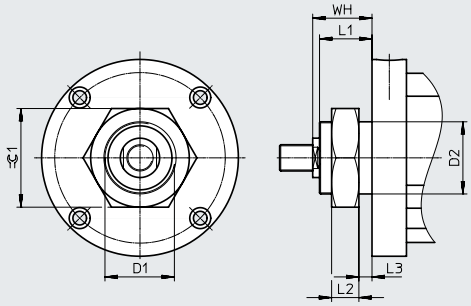
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 3 Download CAD data ➔ www.festo.com

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

[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

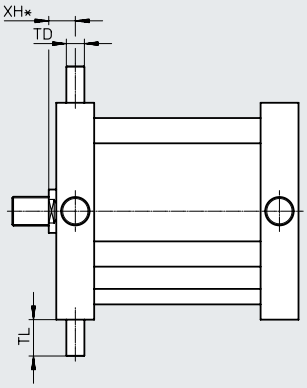
Datasheet

Dimensions – piston diameter 3

Download CAD data ➔ www.festo.com

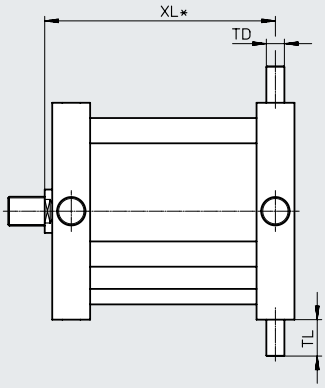
[S] Single-acting, pushing (piston rod retracted by spring force)
[Y2] Trunnion flange mounting position, front

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

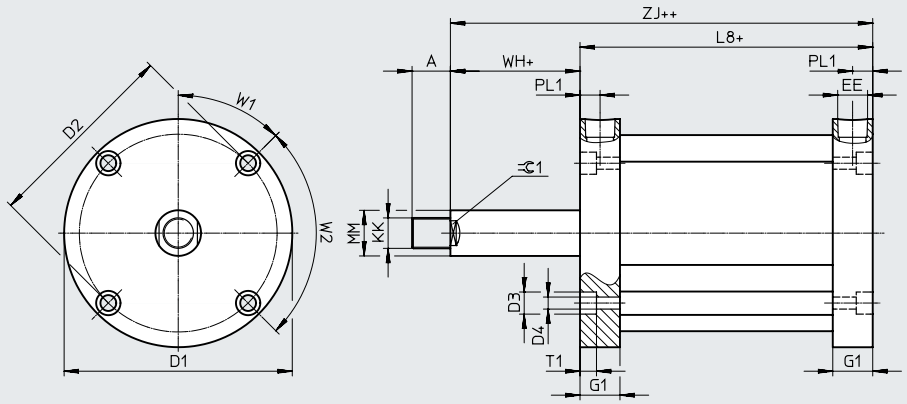
Stroke [in]	TD	TL	XH [Y2]	XL [Y3]
1/8...1	0.312	0.63	0.46	1.05
1 1/4...2	0.312	0.63	0.46	1.92
2 1/2...3	0.312	0.63	0.46	2.8
3 1/2...4	0.312	0.63	0.46	3.68

Datasheet

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

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



+ = plus stroke length

++ = plus 2x stroke length

Stroke [in]	A	D1 ⌀	D2 ⌀	D3 ⌀	D4 ⌀	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 ⌀	PL1	T1	W1	W2	WH	ZJ	⌀C1
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

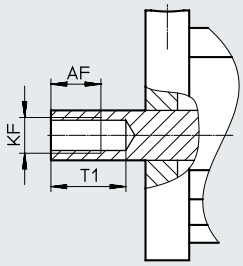
Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

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

[F] Internal thread

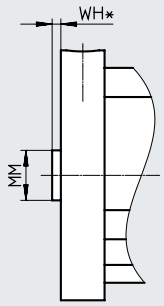
DPCB-...-F



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

[N] No thread

DPCB-...-N

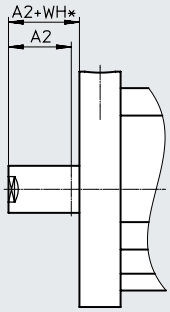


Stroke [in]	AF	KF		T1	MM ⌀	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.4	3/4-10 UNC	3/4-16 UNF	0.54	1	0.13
1/4	0.45	3/4-10 UNC	3/4-16 UNF	0.625	1	0.13
3/8	0.575	3/4-10 UNC	3/4-16 UNF	0.75	1	0.13
1/2	0.7	3/4-10 UNC	3/4-16 UNF	0.875	1	0.13
5/8	0.825	3/4-10 UNC	3/4-16 UNF	1	1	0.13
3/4	0.875	3/4-10 UNC	3/4-16 UNF	1.125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

Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

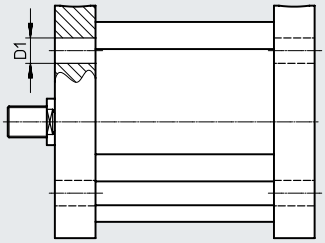
[P] Single-acting, pulling (piston rod advanced by spring force)
[NE] Piston rod extension



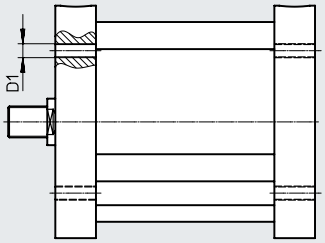
+ = plus stroke length

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

DPCB-...-CB



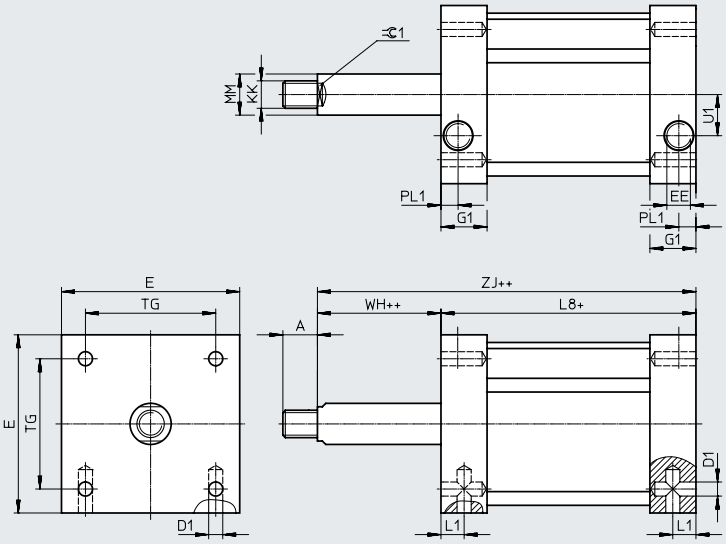
DPCB-...-MB



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

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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



+ = plus stroke length
++ = plus 2x 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

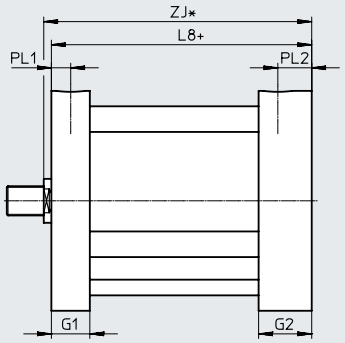
Stroke [in]	L8	MM Ø	PL1	TG	U1	WH	ZJ	SW 1
1/8...1	2.75	1	0.44	3.62	1.25	0.13	2.88	0.88
1 1/4...2	3.62	1	0.44	3.62	1.25	0.13	3.75	0.88
2 1/2...3	3.63	1	0.44	3.62	1.25	0.13	3.76	0.88
3 1/2...4	–	1	0.44	3.62	1.25	0.13	–	0.88

Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



* = plus 2x stroke length

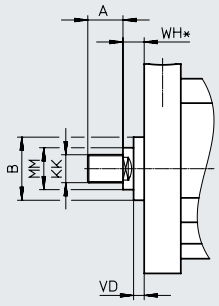
+ = plus stroke length

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 diameter 4 Download CAD data ➔ www.festo.com

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

[A4] Scraper made of NBR



+ = plus stroke length

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

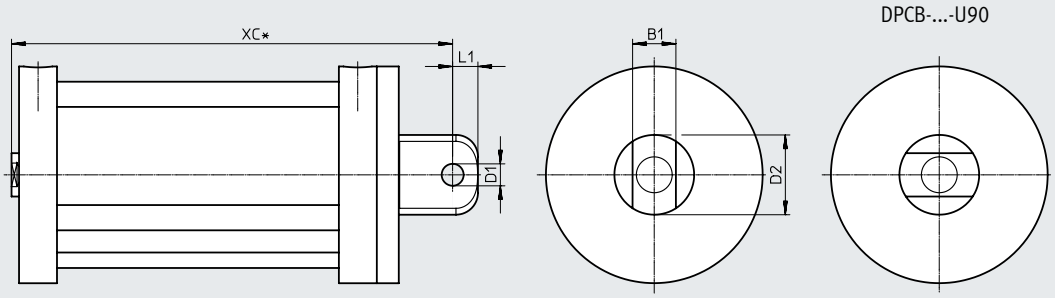
Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



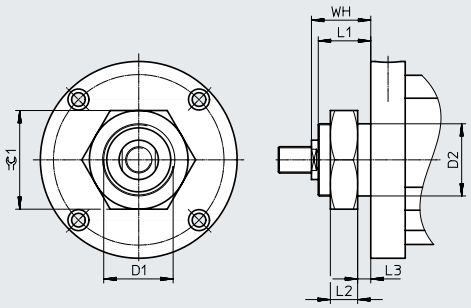
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 4 Download CAD data ➔ www.festo.com

[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 3/4-12 UNF-2A	1.75	1.12	0.88	0.19	1.25	2.62

Datasheet

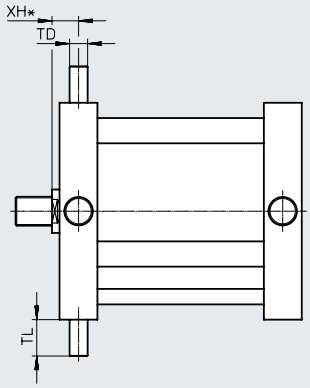
Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

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

[Y2] Trunnion flange mounting position, front

DPCB-...-Y2

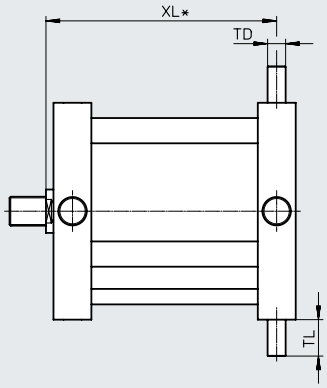


XH* = plus stroke length

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

[Y3] Trunnion flange mounting position, rear

DPCB-...-Y3



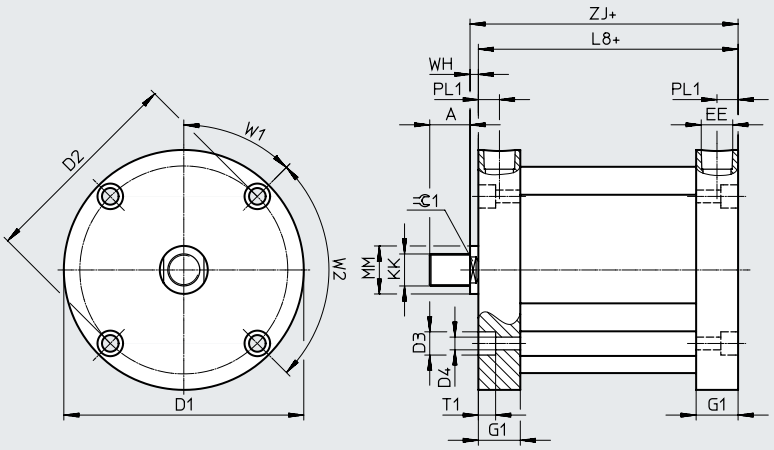
XL* = plus 2x stroke length

Stroke [in]	TD	TL	XH [Y2]	XL [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 diameter 4 Download CAD data ➔ 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

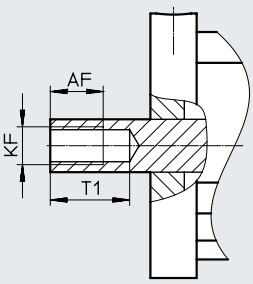
Stroke [in]	L8	MM Ø	PL1	T1	W1	W2	WH	ZJ	⌀1
1/8...1	1.56	1	0.42	0.33	45°	90°	0.13	1.69	0.88
1 1/4...2	2.44	1	0.42	0.33	45°	90°	0.13	2.57	0.88
2 1/2; 3	3.31	1	0.42	0.33	45°	90°	0.13	3.44	0.88
3 1/2; 4	4.19	1	0.42	0.33	45°	90°	0.13	4.32	0.88

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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

[F] Internal thread

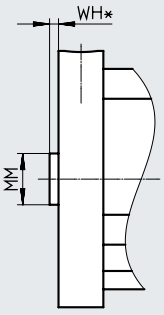
DPCB-...-F



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

[N] No thread

DPCB-...-N



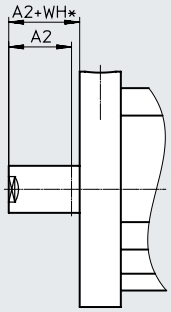
Stroke [in]	AF	KF		T1	MM Ø	WH
	[F]	[F]		[F]	[N]	[N]
1/8	0.4	3/4-10 UNC	3/4-16 UNF	0.54	1	0.13
1/4	0.45	3/4-10 UNC	3/4-16 UNF	0.625	1	0.13
3/8	0.575	3/4-10 UNC	3/4-16 UNF	0.75	1	0.13
1/2	0.7	3/4-10 UNC	3/4-16 UNF	0.875	1	0.13
5/8	0.825	3/4-10 UNC	3/4-16 UNF	1	1	0.13
3/4	0.875	3/4-10 UNC	3/4-16 UNF	1.125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

Download CAD data ➔ www.festo.com

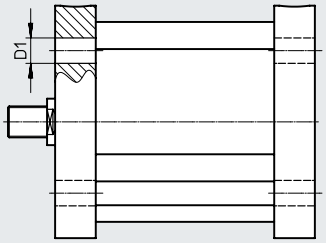
[S] Single-acting, pushing (piston rod retracted by spring force)
[NE] Piston rod extension



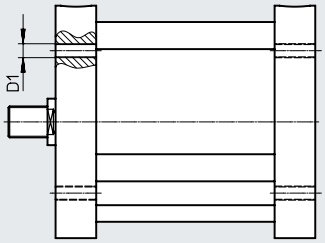
+ = plus stroke length

[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

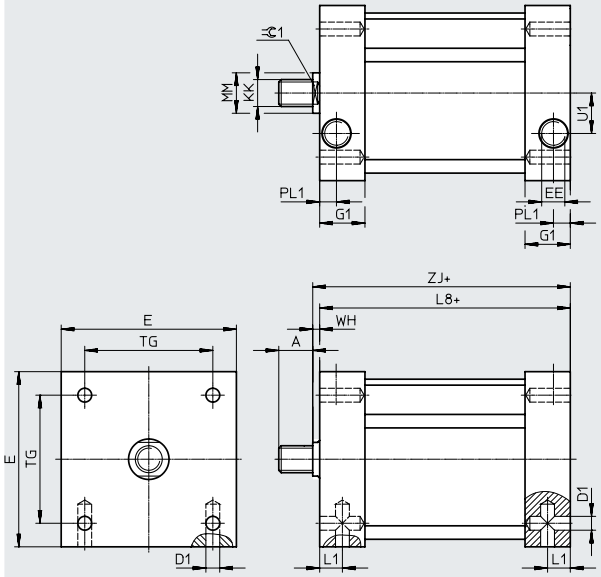


Stroke [in]	A2		WH	D1 ⌀	D1 ⌀
	min.	max.		[CB]	[MB]
1/8...4	0.001	6	0.13	0.5	5/16-18 UNC

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

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



+ = 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

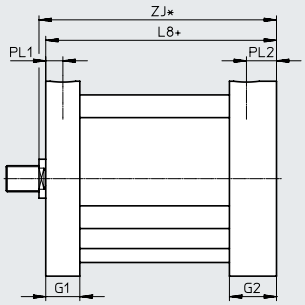
Stroke [in]	L8	MM ⌀	PL1	TG	U1	WH	ZJ	⌀C1
1/8...1	2	1	0.44	3.62	1.25	0.13	2.13	0.88
1/4...2	2.88	1	0.44	3.62	1.25	0.13	3.01	0.88
2 1/2...3	3.75	1	0.44	3.62	1.25	0.13	3.88	0.88
3 1/2...4	4.63	1	0.44	3.62	1.25	0.13	4.76	0.88

Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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

[V] Reinforced end cap



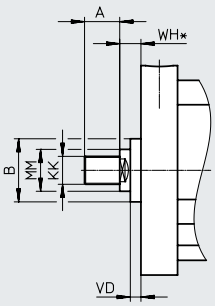
*/+ = plus stroke length

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 diameter 4 Download CAD data ➔ www.festo.com

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

[A4] Scraper 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

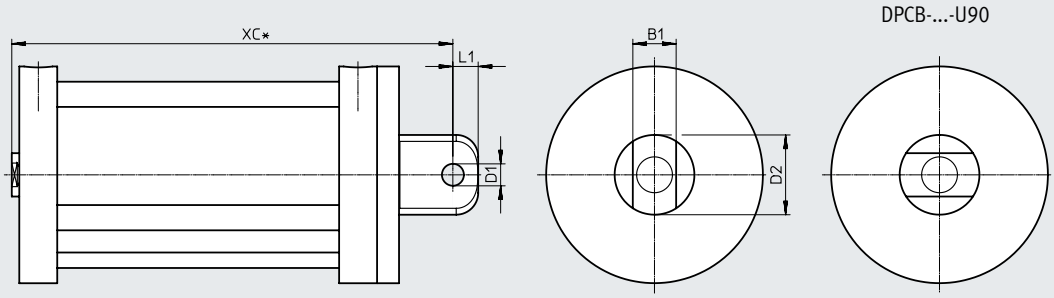
Datasheet

Dimensions – piston diameter 4 Download CAD data ➔ www.festo.com

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

[U] With swiveling rod eye

[U90] With swiveling rod eye, rotated 90°



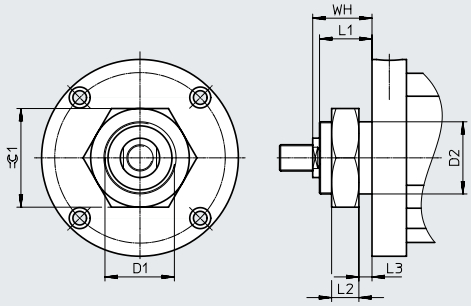
* = plus 2x stroke length

Stroke [in]	B1	D1 ø	D2 ø	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 diameter 4 Download CAD data ➔ www.festo.com

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

[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

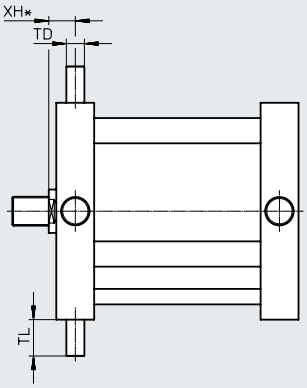
Datasheet

Dimensions – piston diameter 4

Download CAD data ➔ www.festo.com

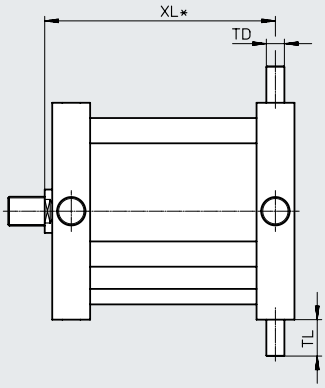
[S] Single-acting, pushing (piston rod retracted by spring force)
[Y2] Trunnion flange mounting position, front

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 [Y2]	XL [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 diameter	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Conditions	Code		Enter code
Module no.	**8104879**	**8104880**	**8104881**	**8104882**	**8104883**	**8104884**	**8104885**	**8104886**				
Function	Compact air cylinder, single-acting									**DPCB**		DPCB
System of units	Inch											
Anti-twist protection	Without											
Running characteristics	Standard											
	Low friction									**L**		
Piston diameter	1/2"	3/4"	1 1/16"	1 1/2"	2"	2 1/2"	3"	4"		**-..."**		
Stroke												
1/8"	1)	1) 2)	1)	1)	1)	1)	1)	1)		**-1/8"**		
1/4"	1)	1) 2)	1)	1)	1)	1)	1)	1)		**-1/4"**		
3/8"	3)	2)								**-3/8"**		
1/2"	3)	2)								**-1/2"**		
5/8"	3)	2)								**-5/8"**		
3/4"	3)	2)								**-3/4"**		
7/8"	3)	2)								**-7/8"**		
1"	3)	2)								**-1"**		
1 1/8"	3)	2)								**-1 1/8"**		
1 1/4"	3)	2)								**-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
2) Not with R270
3) Not with R90

Ordering data – Modular product system

Ordering table

Piston diameter	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										
	One end plate with recess and through-hole									**J1**	
	One end plate, rotated 90°								[6]	**J90**	
	One end plate with recess and through-hole, rotated 90°								[6]	**J91**	
Piston rod thread type	External thread								[5]		
	Internal thread								[5]	**F**	
	No thread								[5]	**N**	
Supply port	Lateral										
	–	Rotated through 90°							[1] [10]	**P90**	
	Rotated through 180°								[10]	**P180**	
	–	Rotated through 270°							[1] [10]	**P270**	
Cap geometry	Round										
	–	Square							[1]	**QX**	
End cap	Standard										
	Reinforced								[4] [10] [13]	**V**	
Type of mounting	Standard										
	With swiveling 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**	
	–	Rear trunnion mounting position							[1] [10]	**Y3**	
	With swiveling rod eye, rotated 90°								[4]	**U90**	
Cushioning	No cushioning									**-N**	
	Flexible cushioning rings/pads at front								[3]	**-P2**	
	Flexible cushioning rings/pads at rear								[2]	**-P3**	
Position sensing	Without										
	For proximity switch									**A**	
Temperature range	Standard										
	-40 ... + 176 °F									**-T3**	
Scraper variant	None										
	Increased chemical resistance									**-A1**	
	Scraper made of NBR								[13]	**-A4**	
Piston rod extension	0.001...6"									**-...NE**	

[1] P90, P270, QX, Y2, Y3, R270
Not with piston diameter 1/2

[2] P3
Not with P

[3] V, U, U90
Not with S

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

[5] External 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, R180
Not with QX

[13] V, A4
Not with FT

Ordering data – Modular product system

Ordering table

Piston diameter	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**	
Sensor mounting, external	Without										
	Mounting rail for sensors								[11]	**-R**	
	Mounting rail for sensors, rotated 90°								[11]	**-R90**	
	Mounting rail for sensors, rotated 180°								[10] [11]	**-R180**	
	–	Mounting rail for sensors, rotated 270°							[1] [11]	**-R270**	

[1] P90, P270, QX, Y2, Y3, R270
Not with piston diameter 1/2

[10] P90, P180, P270, V, CB, CF, CR, FT, MB, MF, MR, Y2, Y3, R180
Not with QX

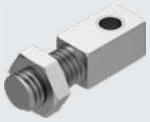
[11] R, R90, R180, R270
Only with A

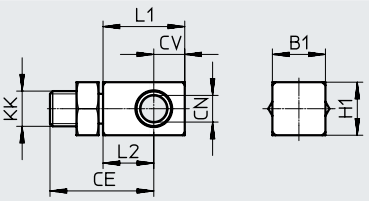
Accessories

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





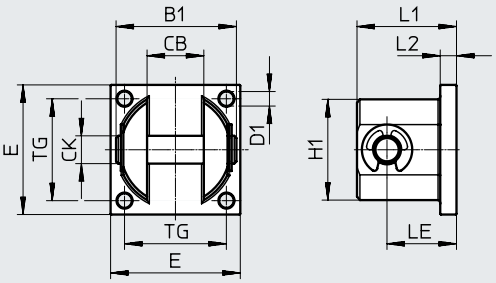
Dimensions and ordering data

For diameter [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	**8106707**	**DARC-C5-U8C-M**
3/4	0.38	0.85	0.187	0.25	0.38	10-32 UNF	0.72	0.47	**8106708**	**DARC-C5-U10-M**
1 1/16	0.38	1.1	0.187	0.25	0.38	5/16-24 UNF	0.72	0.47	**8106709**	**DARC-C5-U516-M**
1 1/2	0.75	1.35	0.375	0.44	0.75	3/8-24 UNF	1.16	0.72	**8106710**	**DARC-C5-U38-M**
2; 2 1/2	0.75	1.47	0.375	0.44	0.75	1/2-20 UNF	1.16	0.72	**8106711**	**DARC-C5-U12-M**
3	1	1.88	0.625	0.63	1	5/8-18 UNF	1.63	1	**8106712**	**DARC-C5-U58-M**
4	1	1.88	0.625	0.63	1	3/4-16 UNF	1.63	1	**8106713**	**DARC-C5-U34-M**

Clevis flange DAMS-C5-...-D
For connecting to rod clevis DARC

Material:
Mounting: die-cast zinc
Bolt: galvanized steel
Lock: galvanized steel

RoHS-compliant
Contains paint-wetting impairment substances



Dimensions and ordering data

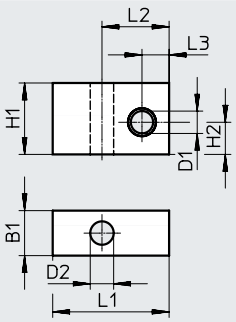
For rod clevis	B1	CB	CK	D1 ø	E	H1	L1	L2	LE	TG	Part no.	Type
DARC-U8C/ -U10/ -U516	0.93	0.39	0.187	0.144	1	0.71	0.78	0.16	0.56	0.75	**8106691**	**DAMS-C5-1/2"-D**
DARC-U38/-U12	1.63	0.75	0.375	0.196	1.75	1.37	1.34	0.22	0.94	1.38	**8106692**	**DAMS-C5-1 1/2"-D**
DARC-U58/-U34	2.42	1	0.625	0.257	2.5	2.1	1.81	0.25	1.25	2	**8106693**	**DAMS-C5-3"-D**

Accessories

Trunnion support DAMC-C5-...-M

Material:
Mounting: wrought aluminum alloy
Bearing: bronze

RoHS-compliant
Contains paint-wetting impairment substances



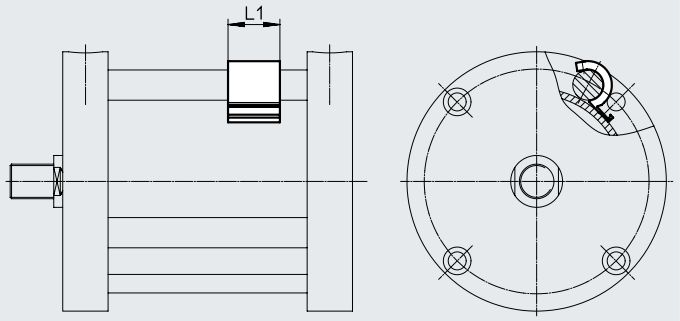
Dimensions and ordering data

For diameter [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 aluminum alloy
Screw: galvanized steel

RoHS-compliant
Contains paint-wetting impairment substances



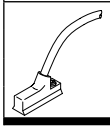
Dimensions and ordering data

For diameter [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, magneto-resistive

Data sheets → Internet: sdbf

	For diameter	Type of mounting	Switching output	Electrical connection	Part no.	Type
N/O contact						
	1/2 ... 4	Can be inserted in slot lengthwise	PNP	Cable, 3-wire	**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-wire	**8106577**	**SDBF-FBS-1L-NU-K-9-N-LE**
				Plug M8x1, 3-pin	**8106578**	**SDBF-FBS-1L-NU-K-0.5-N-M8**

Ordering data – Connecting cables

Data sheets → Internet: nebu

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541333**	**NEBU-M8G3-K-2.5-LE3**
			5	**541334**	**NEBU-M8G3-K-5-LE3**
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541338**	**NEBU-M8W3-K-2.5-LE3**
			5	**541341**	**NEBU-M8W3-K-5-LE3**

Ordering data

	For diameter [in]	Description	Part no.	Type
One-way flow control valve GRLA				Data sheets → Internet: grla
	1/2 ... 3/4	For regulating velocity	**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				Data sheets → Internet: qb
	1/2 ... 3/4	For connecting compressed air 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				Data sheets → Internet: qbl
	1/2 ... 3/4	For connecting compressed air 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				
	For diameter	Description	Part no.	Type
Assembly tool				
		For fixing the piston rod in place when mounting piston rod attachments	**8106809**	**DADG-WF**
Seal set				
	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"**