

Stopper cylinders DFST-G2

FESTO



Characteristics

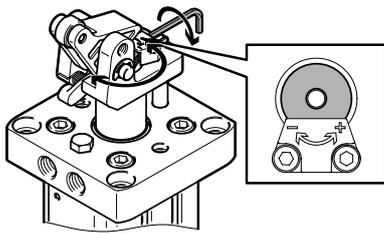
At a glance

- With cushioning for heavy and delicate loads
Size 32: Workpieces up to 40 kg
Size 50 ... 80: Workpieces up to 800 kg
- Flexible range of applications owing to adjustable shock absorber
- Gentle stopping without impact vibration or noise
- Double- or single-acting function
- Sturdy design for long service life

Illustration for size 32

Simple shock absorber adjustment using a scale

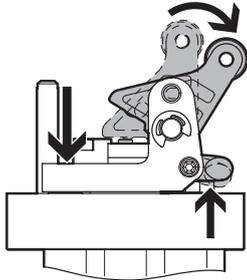
Cushioning characteristic can be adjusted by simply rotating the shock absorber.



Optional: Lever locking mechanism

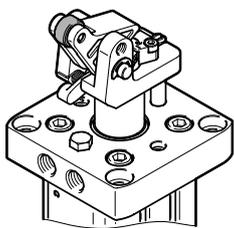
Fixes the toggle lever in the end position after the stop process, preventing the spring force of the shock absorber from pushing the transported goods backwards.

Application: Specific position, e.g. for an indexing process.



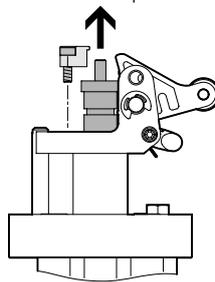
Roller material

Material can be selected from polymer or steel.



Simple replacement of the shock absorber

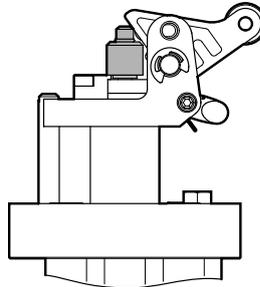
To replace the shock absorber all that is required is to undo three screws and remove the stop.



Optional: Lever deactivating mechanism

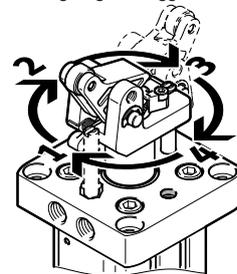
Deactivates the toggle lever by putting the cap on. This allows the pallets to pass through.

Application: Convenient alternative to holding the stopper in the lower end position, e.g. during the installation process.



Adjustable effective direction (90°, 180°, 270°)

For aligning the toggle lever in relation to the supply ports.

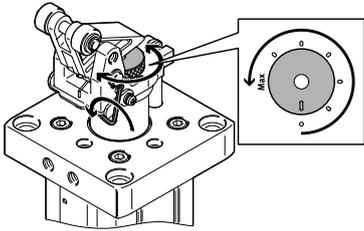


Key features

Illustration for size 50 ... 80

Simple shock absorber adjustment using a scale

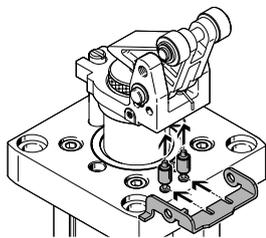
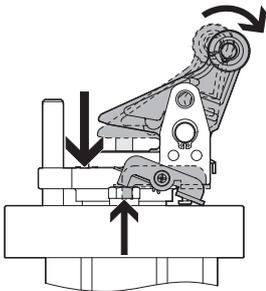
Cushioning characteristic can be adjusted by simply rotating the shock absorber. The new visualisation of the cushioning adjustment makes it easier e.g. to commission multiple stopper cylinders.



Optional: Lever locking mechanism

Fixes the toggle lever in the end position after the stop process, preventing the spring force of the shock absorber from pushing the transported goods backwards.

Application: Specific position, e.g. for an indexing process.

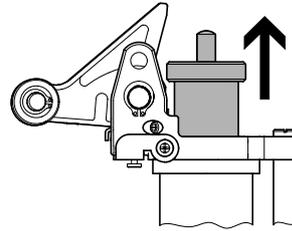


Note:

Two pins are included in the scope of delivery of the DFST-...-L. One pin is for the lever locking mechanism and the other for the lever deactivating mechanism. The pin for the lever locking mechanism is fitted prior to delivery.

Simple replacement of the shock absorber

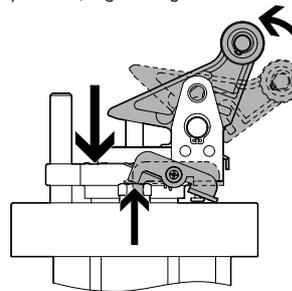
All that is required to replace the shock absorber is to undo a lock bolt.



Optional: Lever deactivating mechanism

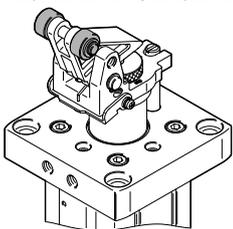
Deactivates the toggle lever by manually pressing down the toggle lever so that pallets can pass through. New: Automatic release of the toggle lever as the piston rod is retracted.

Application: Convenient alternative to holding the stopper in the lower end position, e.g. during the installation process.



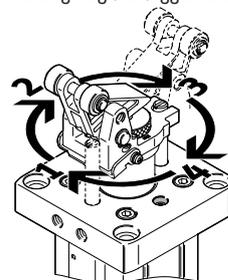
Roller material

Material can be selected from polymer or steel.



Adjustable effective direction (90°, 180°, 270°)

For aligning the toggle lever in relation to the supply ports.



Characteristics

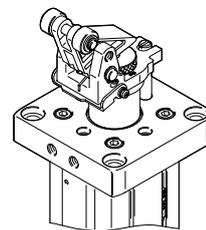
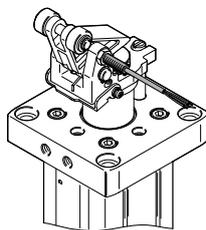
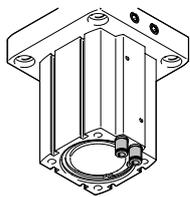
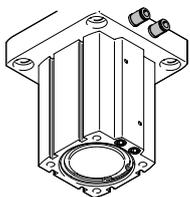
At a glance

Supply port
At the side

Underneath

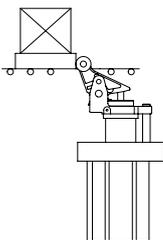
Versatile position sensing
Toggle lever

Piston position



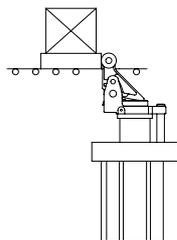
Functional sequence

Step 1



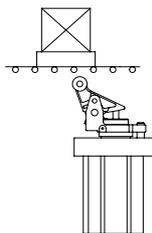
Gentle braking of heavy loads via a hydraulic shock absorber in the piston rod.

Step 2



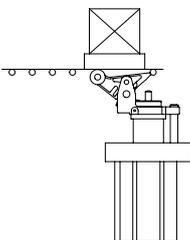
Toggle lever reaches the retracted end position. Optionally with lever locking mechanism: the load cannot be pushed back by the shock absorber.

Step 3



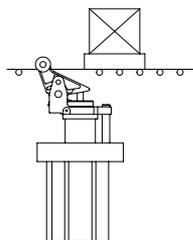
The load is released by means of compressed air, and the toggle lever is unlocked simultaneously.

Step 4



The piston is extended by means of spring force or compressed air. The toggle lever tips back which prevents the load from being lifted.

Step 5



The toggle lever is raised by means of spring force and can stop the next load.

Type codes

| 001 | Series |
|------|------------------|
| DFST | Stopper cylinder |

| 002 | Piston diameter [mm] |
|-----|----------------------|
| 32 | 32 |
| 50 | 50 |
| 63 | 63 |
| 80 | 80 |

| 003 | Stroke [mm] |
|-----|-------------|
| 20 | 20 |
| 30 | 30 |
| 40 | 40 |

| 004 | Function |
|-----|---------------------------|
| | Double-acting with spring |
| D | Double-acting |

| 005 | Interlock |
|-----|-------------------------------------|
| | None |
| L | With toggle lever locking mechanism |

| 006 | Cushioning |
|-----|--------------------------------------|
| Y4 | Shock absorber, adjustable, at front |

| 007 | Position sensing |
|-----|----------------------|
| A | For proximity sensor |

| 008 | Rollers |
|-----|---------|
| | POM |
| S | Steel |

| 009 | Generation |
|-----|----------------|
| G2 | 2nd generation |

 **Note**

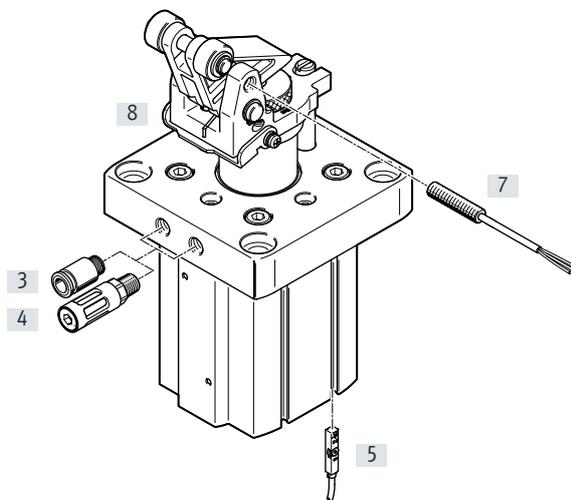
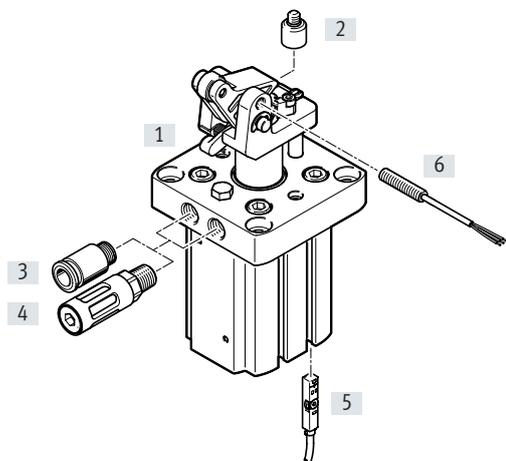
The double-acting DFST with spring variant can also be used as a single-acting drive.

Peripherals overview

Peripherals overview

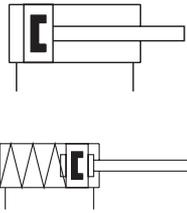
Size 32

Size 50 ... 80



| Accessories | | | |
|---|-----------|--|-----------------|
| Type | For ø | Description | → Page/Internet |
| [1] Lever locking mechanism | 32 | <ul style="list-style-type: none"> For fixing the toggle lever in the retracted end position Included in the scope of delivery of variant DFST-...-L | 16 |
| [2] Lever deactivating mechanism | 32 | <ul style="list-style-type: none"> For deactivating the toggle lever Not included in the scope of delivery of the stopper cylinder | 16 |
| [3] Push-in fitting QS | 32 ... 80 | For connecting tubing with standard O.D. | qs |
| [4] Silencer | 32 ... 80 | For noise reduction at the exhaust port. Only in combination as a single-acting function | silencer |
| [5] Proximity switches SME-/SMT-8 | 32 ... 80 | For sensing the piston position | 16 |
| [6] Proximity switches SIEN-M5 | 32 | For sensing the toggle lever position | 17 |
| [7] Proximity switches SIEN-M8 | 50 ... 80 | For sensing the toggle lever position | 17 |
| [8] Toggle lever function selection kit | 50 ... 80 | <ul style="list-style-type: none"> For fixing the toggle lever in the retracted end position or deactivating the toggle lever. The load is released and the toggle lever unlocked simultaneously on pressurisation Included in the scope of delivery of variant DFST-...-L | 16 |

Data sheet



- - Diameter
32 ... 80 mm
- - Stroke length
20 ... 40 mm



| General technical data | | | | | |
|-----------------------------------|------|--|------|------|------|
| Piston diameter | | 32 | 50 | 63 | 80 |
| Pneumatic connection | | G1/8 | | | |
| Stroke | [mm] | 20 | 30 | 30 | 40 |
| Design | | Piston rod with toggle lever | | | |
| Mode of operation | | Double-acting | | | |
| | | Double-acting with spring | | | |
| Protection against rotation/guide | | Guide rod | | | |
| Type of mounting | | With through-hole | | | |
| Cushioning | | Elastic cushioning rings/plates at both ends (for piston rod movement) | | | |
| | | Adjustable shock absorber | | | |
| Cushioning length | [mm] | 14 | 15 | 15 | 20 |
| Position sensing | | Via proximity switch | | | |
| Toggle lever position sensing | | For inductive sensors | | | |
| Mounting position | | Vertical | | | |
| Product weight | [g] | 750 | 1900 | 3400 | 6350 |

| Operating and environmental conditions | | |
|--|---|------------|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:-:-] | |
| Operating pressure ¹⁾ | [MPa] | 0.2 ... 1 |
| | [psi] | 29 ... 145 |
| | [bar] | 2 ... 10 |
| | [°C] | 5 ... 60 |
| Ambient temperature | | |
| Corrosion resistance CRC ¹⁾ | 1 | |

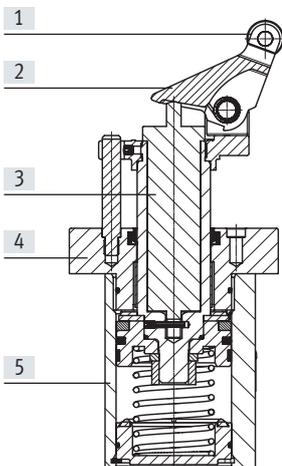
1) An operating pressure of 0.3 MPa (3 bar, 45 psi) is required with piston diameter 50 in combination with lever locking mechanism.

2) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials

Sectional view

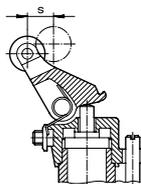


| Piston diameter | 32 | 50 | 63 | 80 | |
|-------------------|--|-------|----|----|--|
| [1] Rollers | | | | | |
| | [] | POM | | | |
| | [S] | Steel | | | |
| [2] Top elements | Nickel-plated steel casting | | | | |
| [3] Piston rod | High-alloy stainless steel | | | | |
| [4] Cover | Die-cast aluminium | | | | |
| [5] Housing | Wrought aluminium alloy | | | | |
| - Seals | NBR | | | | |
| Note on materials | Contains paint-wetting impairment substances | | | | |
| | RoHS-compliant | | | | |

Data sheet

Braking distance

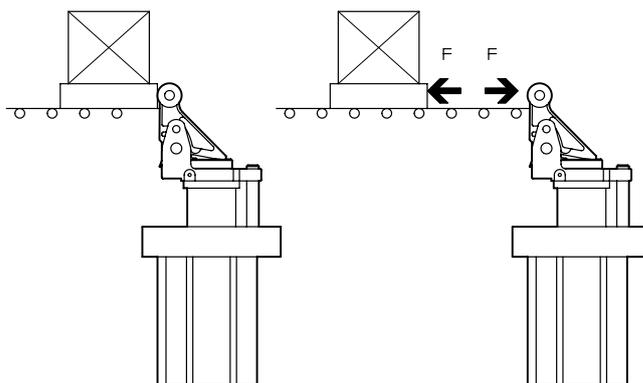
The braking distance s refers to the distance from when contact is made with the toggle lever to the end stop.



| | | | | | |
|------------------|------|----|----|----|----|
| Piston diameter | | 32 | 50 | 63 | 80 |
| Braking distance | [mm] | 14 | 15 | 15 | 20 |

Resetting force F_R of the toggle lever against the delivery direction

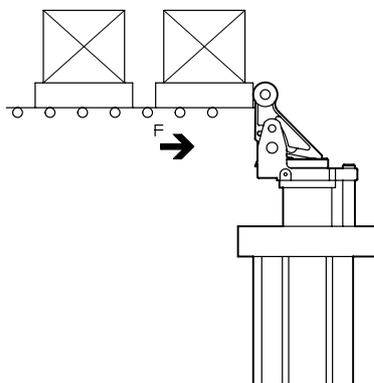
The resetting force refers to the minimum force that must be applied to press the toggle lever into the end position.



| | | | | | |
|-------------------------------------|-----|----|----|----|----|
| Piston diameter | | 32 | 50 | 63 | 80 |
| Resetting force at the toggle lever | [N] | 4 | 22 | 23 | 36 |

Permissible impact force F_S on the rollers of the toggle lever with piston rod advanced and toggle lever pushed into the end position

The permissible impact force refers to the momentary force that can act on the toggle lever when it is already pushed into its end position without damaging the rod bearing or the toggle lever mechanism.

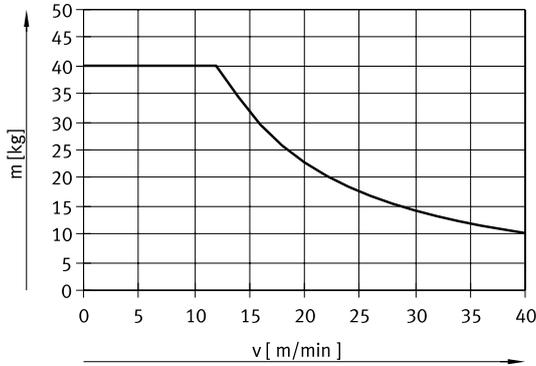


| | | | | | |
|-----------------|-----|------|------|------|------|
| Piston diameter | | 32 | 50 | 63 | 80 |
| Impact force | [N] | 1000 | 3000 | 5000 | 6000 |

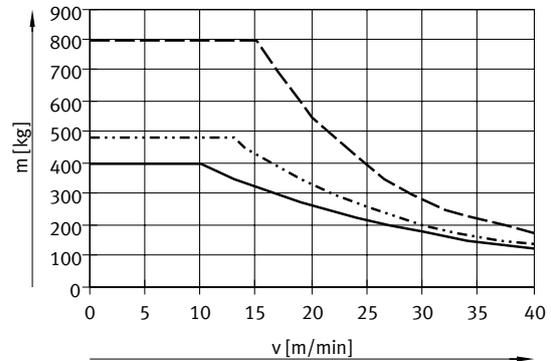
Data sheet

Permissible load m as a function of conveyor speed v

A coefficient of friction of $\mu = 0.1$ has been taken into consideration in the values.



— ø 32



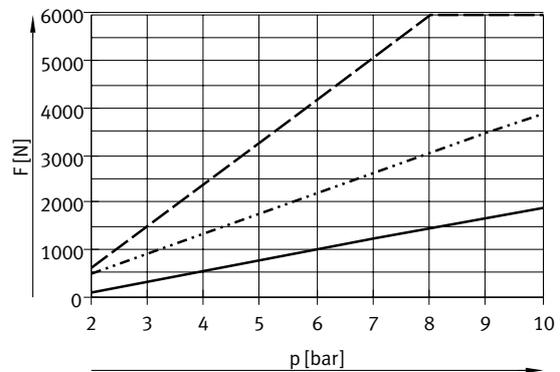
— ø 50
 - · - · ø 63
 - - - ø 80

Permissible lateral force F_Q during the switching operation as a function of the pressure p

The applied load causes a lateral force on the piston rod. A certain minimum pressure must be applied in order to guarantee the cylinder function.



— ø 32



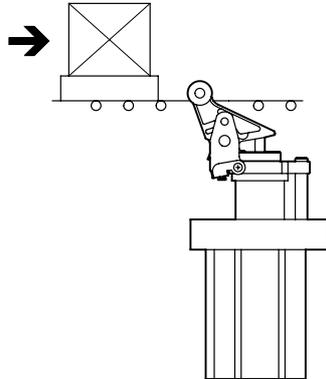
— ø 50
 - · - · ø 63
 - - - ø 80

Data sheet

Selection aid

Stopping a pallet

The stopper cylinder is used to stop an individual workpiece carrier, with or without end-position locking. Toggle lever and shock absorber are pushed into their end position again for each pallet.



Example

Given:

Friction factor $\mu = 0.1$

Conveying speed $v = 20 \text{ m/min}$

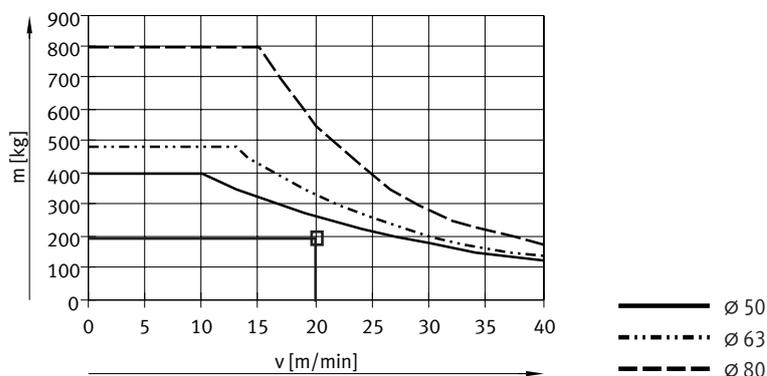
Pallet with workpiece $m = 200 \text{ kg}$

Operating pressure $p = 0.6 \text{ MPa}$ (6 bar, 87 psi)

Selection: Stopper cylinder DFST-50

1. Checking the permissible load

The maximum permissible load at a conveying speed of 20 m/min is 250 kg. This means that the total load of 200 kg for the pallet and the workpiece is permissible.



2. Checking the permissible lateral force during the switching operation

Lateral force $F_Q =$ Frictional force F_R

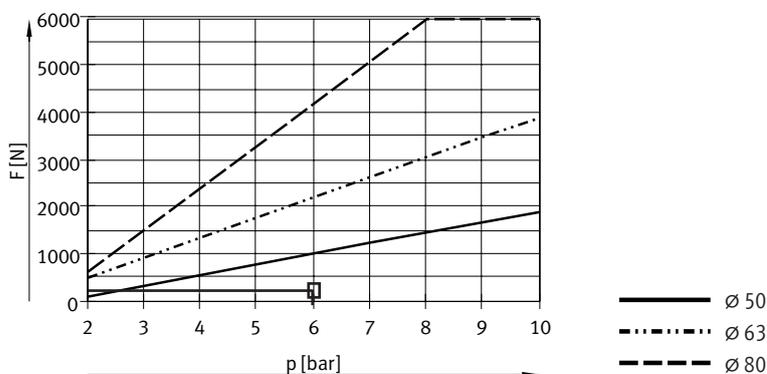
$$F_R = \mu \times m \times g$$

$$= 0.1 \times 200 \text{ kg} \times 9.81 \text{ m/s}^2$$

$$= \text{approx. } 200 \text{ N}$$

The maximum permissible lateral force at an operating pressure of 0.6 MPa (6 bar, 87 psi) is 1000 N.

This means that the lateral force of 200 N is permissible.

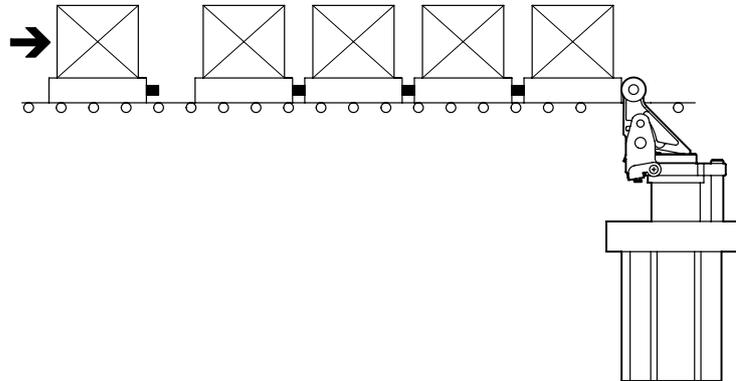


Data sheet

Selection aid

Stopping or separating several pallets

The stopper cylinder is used to separate pallets. Further pallets collide with the pallets that have already pushed the toggle lever into its end position. Since the shock absorber in the stopper cylinder does not function in this case, a certain amount of buffering between the pallets must be ensured (e.g. by using elastomer elements).



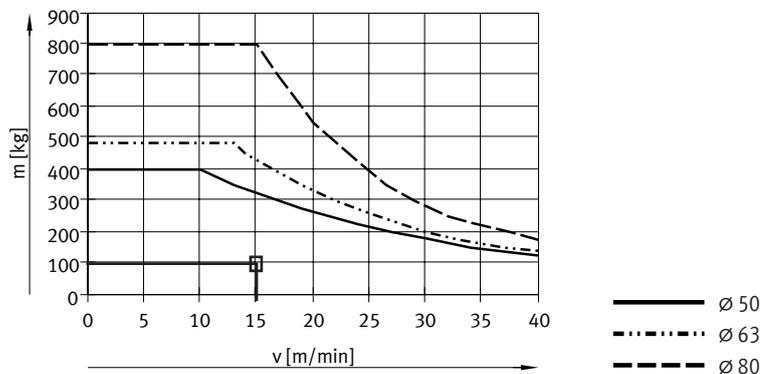
Example

- Given:
- Friction factor $\mu = 0.1$
- Conveying speed $v = 15 \text{ m/min}$
- Pallet with workpiece $m = 100 \text{ kg}$
- Operating pressure 0.6 MPa (6 bar, 87 psi)
- Maximum number of pallets arriving simultaneously $n_G = 1$
- Maximum number of all queued pallets $n_A = 5$
- Maximum number of all advancing pallets $n_{A-1} = 4$
- Spring travel of the pallet buffer $sF = 10 \text{ mm}$

Selection: Stopper cylinder DFST-50

1. Checking the permissible load of the first pallet

The maximum permissible load at a conveying speed of 15 m/min is 320 kg. This means that a total load of 100 kg for the pallet and the workpiece is permissible.



2a. Calculation of the maximum permissible impact force when pallets collide with a pallet resting against the stopper cylinder

The maximum permissible impact force with the DFST-50 is 3000 N. This means that, with a total force of 1150 N, the number of pallets as per the above example is permissible.

««««««««««««««««
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 ««««««««««««««««

Impact force calculation:

Friction force: $F_R = \mu \times (n_A \times m) \times g = 0.1 \times (5 \times 100 \text{ kg}) \times 9.81 \text{ m/s}^2 = \text{approx. } 500 \text{ N}$

Max. total force: $F_{ges} = F_S + F_R = 650 \text{ N} + 500 \text{ N} = 1150 \text{ N}$

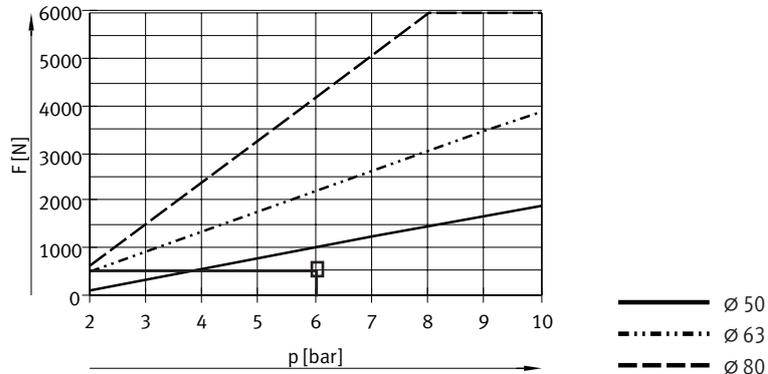
Data sheet

Selection aid

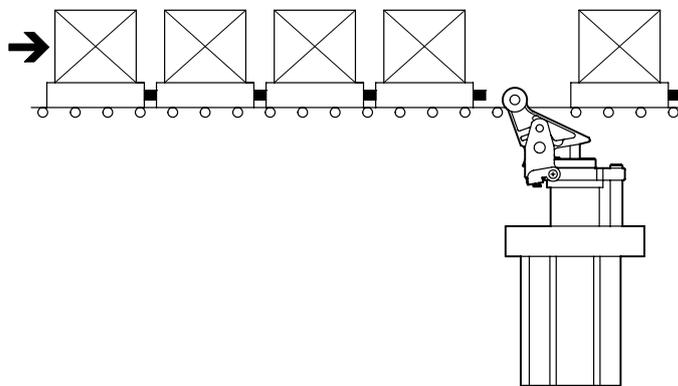
2b. Checking the permissible lateral force during the switching operation

Lateral force $F_Q =$ Frictional force F_R
 $F_R = 500 \text{ N}$

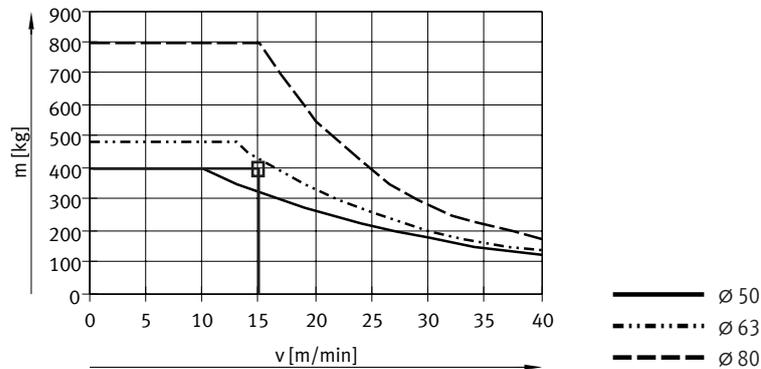
The maximum permissible lateral force at an operating pressure of 0.6 MPa (6 bar, 87 psi) is 1000 N. This means that a lateral force of 500 N is permissible.



3. Separating and advancing the pallets



The maximum permissible load with the DFST-50 at a conveying speed of 15 m/min is 320 kg. Since the total load of the 4 pallets advancing on the stopper cylinder is 400 kg, the next size stopper cylinder must be selected for separating.



Max. total load:
 $m_G = n_{A-1} \times m = 4 \times 100 \text{ kg} = 400 \text{ kg}$

Result

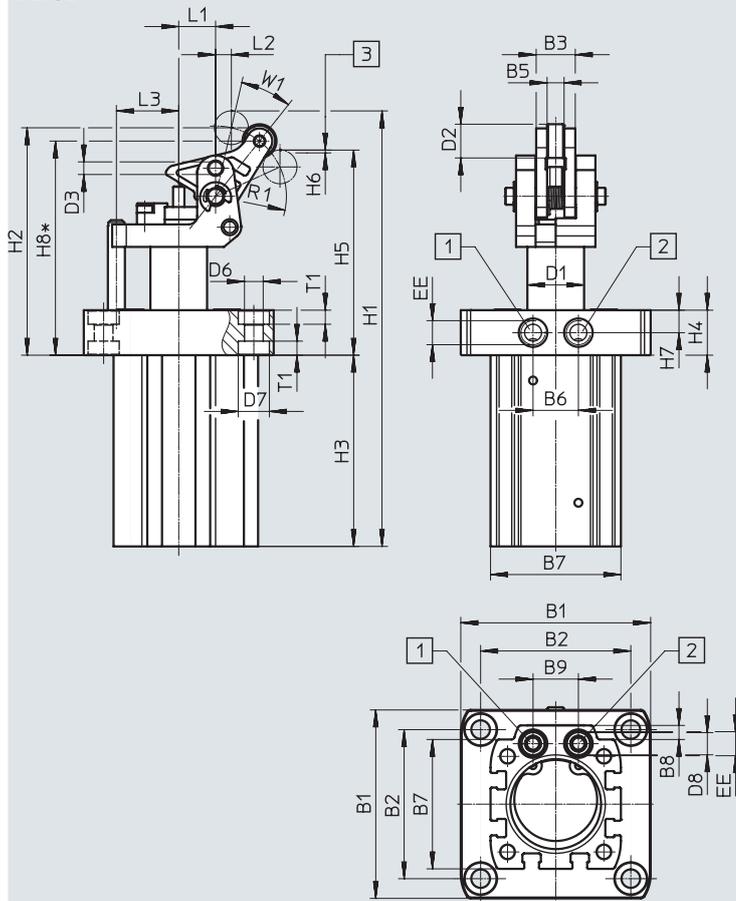
To separate 5 pallets, the stopper cylinder DFST-63 must be selected.

Data sheet

Dimensions

Download CAD data → www.festo.com

Size 32



- [1] Supply port, retracting
- [2] Supply port, advancing
- [3] Lowest permissible pallet underside

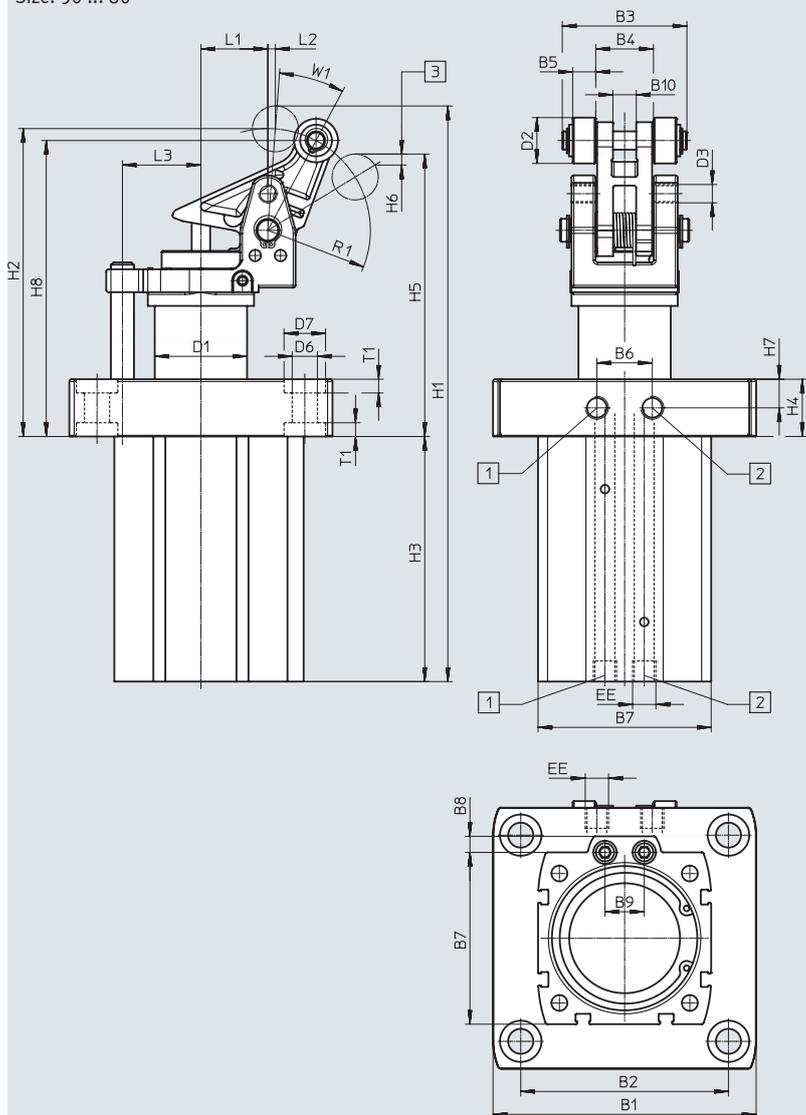
| | | | | | | | | | | |
|-----------|--------|---------|---------|-----|------|-------|------|----|---------|---------|
| ∅ [mm] | B1 | B2 | B3 | B5 | B6 | B7 | B8 | B9 | D1 ∅ | D2 ∅ |
| 32 | 67 | 53 | 13.8 | 6 | 16 | 46 | 5 | 16 | 20 | 12 |
| ∅ [mm] | D3 | D6 ∅ | D7 ∅ | D8 | EE | H1 | H2 | H3 | H4 | H5 |
| 32 | M5x0.5 | 6.6 | 11 | 7.9 | G1/8 | 155.3 | 81.3 | 68 | 16 | 73.8 |
| ∅ [mm] | H6 | H7 | H8 | L1 | L2 | L3 | R1 | T1 | W1 | |
| 32 | 1 | 8 | 76.1 | 13 | 3 | 22 | 25 | 5 | 31.4 | |

Data sheet

Dimensions

Download CAD data → www.festo.com

Size: 50 ... 80



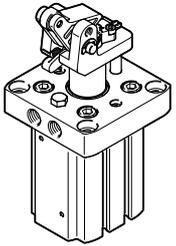
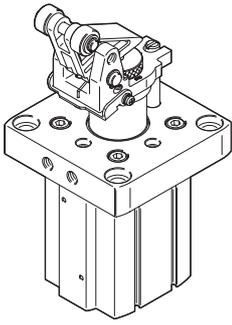
- [1] Supply port, retracting
- [2] Supply port, advancing
- [3] Lowest permissible pallet underside

| ∅ [mm] | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 |
|--------|-----|-----|----|----|----|----|----|----|----|------|
| 50 | 93 | 73 | 43 | 20 | 8 | 17 | 64 | 7 | 17 | 8.1 |
| 63 | 114 | 90 | 54 | 25 | 10 | 24 | 75 | 7 | 17 | 10.1 |
| 80 | 138 | 110 | 63 | 30 | 12 | 24 | 95 | 7 | 17 | 12.1 |

| ∅ [mm] | D1 | D2 | D3 | D6 | D7 | EE | H1 | H2 | H3 | H4 |
|--------|----|----|------|----|----|------|-------|-------|-----|------|
| | ∅ | ∅ | | | | | | | | |
| 50 | 32 | 20 | M8x1 | 9 | 14 | G1/8 | 218.8 | 117.8 | 91 | 17.5 |
| 63 | 40 | 20 | M8x1 | 11 | 18 | G1/8 | 251 | 134 | 107 | 25 |
| 80 | 50 | 25 | M8x1 | 13 | 20 | G1/8 | 322.5 | 159 | 151 | 19 |

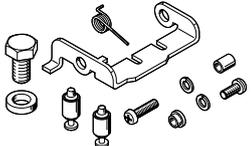
| ∅ [mm] | H5 | H6 | H7 | H8 | L1 | L2 | L3 | R1 | T1 | W1 |
|--------|-------|------|------|-------|----|-----|----|------|----|------|
| 50 | 106.8 | 2.76 | 8.75 | 112.1 | 23 | 6.3 | 26 | 38.5 | 5 | 23.5 |
| 63 | 123.5 | 6.23 | 12.5 | 129.5 | 29 | 6 | 34 | 44.4 | 6 | 20.3 |
| 80 | 143.8 | 4.31 | 9.5 | 152.2 | 36 | 8 | 42 | 55.6 | 6 | 23.5 |

Data sheet

| Ordering data | Piston diameter | Roller made from steel | With spring | With lever locking mechanism | Part no. | Type | |
|---|-----------------|------------------------|-------------|------------------------------|----------|-------------------------|-------------------------|
|  | 32 | | ■ | | 8093003 | DFST-32-20-Y4-A-G2 | |
| | | | ■ | ■ | 8093004 | DFST-32-20-L-Y4-A-G2 | |
| | | | | | ■ | 8093005 | DFST-32-20-D-Y4-A-G2 |
| | | | | | ■ | 8093006 | DFST-32-20-DL-Y4-A-G2 |
| | | ■ | ■ | | ■ | 8093007 | DFST-32-20-Y4-S-A-G2 |
| | | ■ | ■ | ■ | ■ | 8093008 | DFST-32-20-L-Y4-S-A-G2 |
| | | ■ | | | ■ | 8093009 | DFST-32-20-D-Y4-S-A-G2 |
| | | ■ | | | ■ | 8093010 | DFST-32-20-DL-Y4-S-A-G2 |
|  | 50 | | ■ | | 8090405 | DFST-50-30-Y4-A-G2 | |
| | | | ■ | ■ | 8090406 | DFST-50-30-L-Y4-A-G2 | |
| | | | | | ■ | 8090407 | DFST-50-30-D-Y4-A-G2 |
| | | | | | ■ | 8090408 | DFST-50-30-DL-Y4-A-G2 |
| | | ■ | ■ | | ■ | 8090409 | DFST-50-30-Y4-A-S-G2 |
| | | ■ | ■ | ■ | ■ | 8090410 | DFST-50-30-L-Y4-A-S-G2 |
| | | ■ | | | ■ | 8090411 | DFST-50-30-D-Y4-A-S-G2 |
| | | ■ | | | ■ | 8090412 | DFST-50-30-DL-Y4-A-S-G2 |
| | 63 | | ■ | | ■ | 8085906 | DFST-63-30-Y4-A-G2 |
| | | | ■ | ■ | ■ | 8085907 | DFST-63-30-L-Y4-A-G2 |
| | | | | | ■ | 8085908 | DFST-63-30-D-Y4-A-G2 |
| | | | | | ■ | 8085909 | DFST-63-30-DL-Y4-A-G2 |
| ■ | | ■ | | ■ | 8085910 | DFST-63-30-Y4-A-S-G2 | |
| ■ | | ■ | ■ | ■ | 8085911 | DFST-63-30-L-Y4-A-S-G2 | |
| ■ | | | | ■ | 8085912 | DFST-63-30-D-Y4-A-S-G2 | |
| ■ | | | | ■ | 8085913 | DFST-63-30-DL-Y4-A-S-G2 | |
| 80 | | ■ | | ■ | 8089685 | DFST-80-40-Y4-A-G2 | |
| | | ■ | ■ | ■ | 8089686 | DFST-80-40-L-Y4-A-G2 | |
| | | | | ■ | 8089687 | DFST-80-40-D-Y4-A-G2 | |
| | | | | ■ | 8089688 | DFST-80-40-DL-Y4-A-G2 | |
| | ■ | ■ | | ■ | 8089689 | DFST-80-40-Y4-A-S-G2 | |
| | ■ | ■ | ■ | ■ | 8089690 | DFST-80-40-L-Y4-A-S-G2 | |
| | ■ | | | ■ | 8089691 | DFST-80-40-D-Y4-A-S-G2 | |
| | ■ | | | ■ | 8089692 | DFST-80-40-DL-Y4-A-S-G2 | |

Accessories

| Ordering data | | For ø | Part no. | Type |
|--|--|-------|----------|---------------|
| Lever locking mechanism | | | | |
|  | | 32 | 8097332 | DADP-TL-F3-32 |
| Lever deactivating mechanism | | | | |
|  | | 32 | 8097333 | DADP-TF-F3-32 |

| Ordering data – Toggle lever function selection kit | | For ø | Part no. | Type |
|--|--|-------|----------|---------------|
|  | | 50 | 8093804 | DADP-TU-F3-50 |
| | | 63 | 8093805 | DADP-TU-F3-63 |
| | | 80 | 8093806 | DADP-TU-F3-80 |

| Ordering data – Proximity switch for T-slot, magneto-resistive | | | | | | Data sheets → Internet: smt |
|--|--|------------------|-----------------------|------------------|----------|-----------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part no. | Type |
| N/O contact | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP | Cable, 3-wire | 2.5 | 574335 | SMT-8M-A-PS-24V-E-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 574334 | SMT-8M-A-PS-24V-E-0,3-M8D |
| | | | Plug M12x1, 3-pin | 0.3 | 574337 | SMT-8M-A-PS-24V-E-0,3-M12 |
| | | NPN | Cable, 3-wire | 2.5 | 574338 | SMT-8M-A-NS-24V-E-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 574339 | SMT-8M-A-NS-24V-E-0,3-M8D |
| N/C contact | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP | Cable, 3-wire | 7.5 | 574340 | SMT-8M-A-PO-24V-E-7,5-OE |

| Ordering data – Proximity switches for T-slot, magnetic reed | | | | | | Data sheets → Internet: sme |
|--|--|------------------|-----------------------|------------------|----------|-----------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part no. | Type |
| N/O contact | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 543862 | SME-8M-DS-24V-K-2,5-OE |
| | | | | 5.0 | 543863 | SME-8M-DS-24V-K-5,0-OE |
| | | | Cable, 2-wire | 2.5 | 543872 | SME-8M-ZS-24V-K-2,5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 543861 | SME-8M-DS-24V-K-0,3-M8D |

Accessories

| Ordering data – Proximity switch, inductive | | | | | | Data sheets → Internet: sien |
|---|-----------|--------|-------------|--------------|----------|------------------------------|
| | For ø | Thread | Contact | Connection | Part no. | Type |
|  | 32 | M5 | N/O contact | Cable, 2.5 m | 150370 | SIEN-M5B-PS-K-L |
| | | | | Plug | 150371 | SIEN-M5B-PS-S-L |
| | | | N/C contact | Cable, 2.5 m | 150374 | SIEN-M5B-PO-K-L |
| | | | | Plug | 150375 | SIEN-M5B-PO-S-L |
|  | 50 ... 80 | M8 | N/O contact | Cable, 2.5 m | 150386 | SIEN-M8B-PS-K-L |
| | | | | Plug | 150387 | SIEN-M8B-PS-S-L |
| | | | N/C contact | Cable, 2.5 m | 150390 | SIEN-M8B-PO-K-L |
| | | | | Plug | 150391 | SIEN-M8B-PO-S-L |

| 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 |
| | Straight socket, M12x1, 5-pin | | 2.5 | 541363 | NEBU-M12G5-K-2.5-LE3 |
| | | | 5 | 541364 | NEBU-M12G5-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 |
| | Angled socket, M12x1, 5-pin | | 2.5 | 541367 | NEBU-M12W5-K-2.5-LE3 |
| | | | 5 | 541370 | NEBU-M12W5-K-5-LE3 |

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