Montageanleitung (Original: de)
8043960
1504NH

Anschlagbausatz DADP-ES-Q12

FESTO

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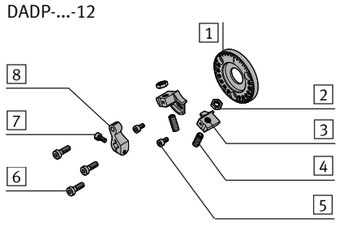
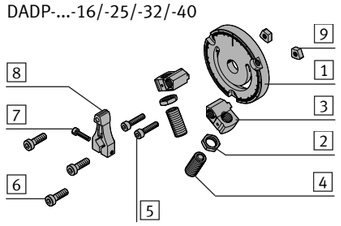
1. Teileliste

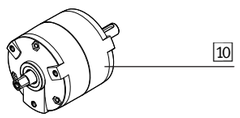
DADP-...-12



DADP-...-16/-25/-32/-40



1	Anschlagscheibe	(1x)
2	Kontermutter	(2x)
3	Anschlag	(2x)
4	Einstellhülse	(2x)
5	Klemmschraube	(2x)
6	Schraube	(3x/4x)
7	Klemmschraube	(1x)
8	Anschlaghebel	(1x)
9	Nutenstein[1]	(2x)



Nicht im Lieferumfang:

10	Schwenkantrieb DRVS	(1x)

2. Bestimmungsgemäße Verwendung

Anschlagbausatz DADP-ES-Q12:
Stufenlose Einstellung des Schwenkwinkels am Schwenkantrieb 10.

3. Sicherheitshinweise und Hinweise zur Montage

Vorsicht

Unerwartete Bewegung von Bauteilen.
Verletzung durch Schlag, Stoß, Quetschung.
- Druckluft vor Montagearbeiten abschalten.

Hinweis

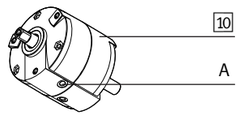
Funktionsstörung und Sachschaden durch unsachgemäße Montage.
- Anziehdrehmomente einhalten (➔ Abschnitt 8).

Info

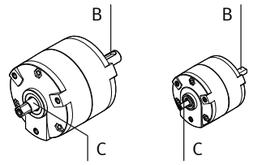
Zubehör des DRVS ➔ www.festo.com/catalogue

[1] Nicht im Lieferumfang bei DADP-...-12.

4. Montage



- Druckluftanschlüsse (A) des Schwenkantriebs 10 nach unten ausrichten.

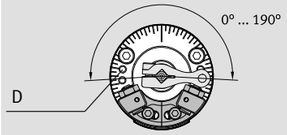


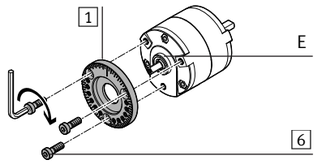
- Abflachung/Passfedernut (B) der Abtriebswelle (C) nach oben ausrichten.

4a. DADP-...-12

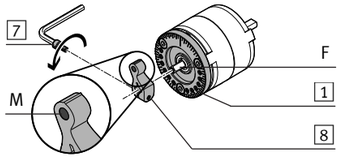
Info

Je nach Positionierung der Anschläge 3 ist der Schwenkbereich einstellbar.
Die Skala ist in 5°-Schritten unterteilt.
Der Winkel zwischen den Befestigungsbohrungen (D) für die Anschläge 3 beträgt 16°.

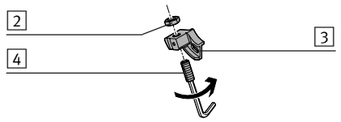




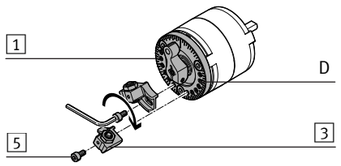
- Anschlagscheibe 1 wie abgebildet ausrichten.
- Anschlagscheibe 1 auf dem Zentrierbund (E) platzieren.
- Anschlagscheibe 1 mit den Schrauben 6 befestigen.



- Den Anschlaghebel 8 auf den Vierkant (F) stecken.
➔ Der Anschlaghebel 8 liegt im Schwenkbereich.
➔ Der Magnet (M) zeigt von der Anschlagscheibe 1 weg.
- Klemmschraube 7 festdrehen.



- Einstellhülsen 4 in die Gewinde der Anschläge 3 auf eine mittlere Ausschraublänge eindrehen (➔ Tabelle Abschnitt 6).
- Kontermuttern 2 festdrehen.



- Anschläge 3 entsprechend des notwendigen Schwenkbereichs an den Bohrungen (D) positionieren.
- Anschläge 3 mit den Klemmschrauben 5 an der Anschlagscheibe 1 befestigen.

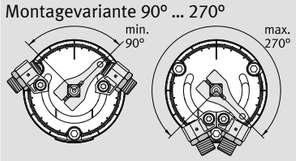
4b. DADP-...-16/-25/-32/-40

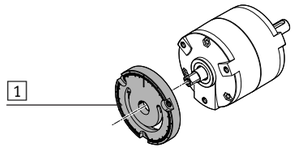
Info

Je nach Positionierung der Anschläge 3 ist der Schwenkbereich einstellbar.
Die Skala ist in 2°-Schritten unterteilt.

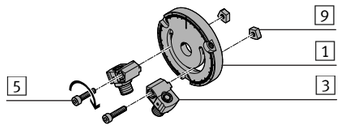
Montagevariante 0° ... 130°

Montagevariante 90° ... 270°



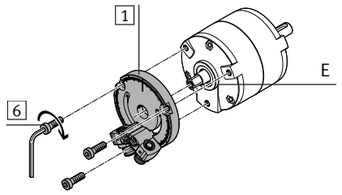


- Anschlagscheibe 1 wie abgebildet ausrichten.

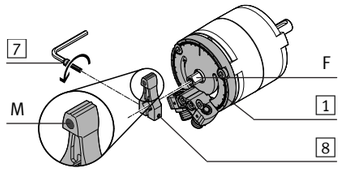


- Anschläge 3 entsprechend des notwendigen Schwenkbereichs positionieren.
- Anschläge 3 mit den Klemmschrauben 5 und den Nutensteinen 9 fixieren.

Kontrolle: Die Anschläge 3 sind verschiebbar.



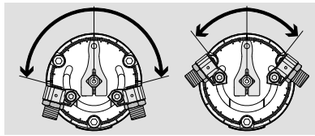
- Anschlagscheibe 1 auf dem Zentrierbund (E) platzieren.
- Anschlagscheibe 1 mit den Schrauben 6 befestigen.



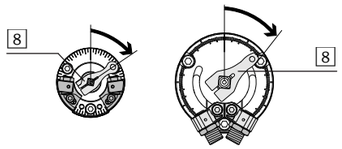
- Anschlaghebel 8 auf den Vierkant (F) stecken.
➔ Der Anschlaghebel 8 liegt im Schwenkbereich.
➔ Der Magnet (M) zeigt von Anschlagscheibe 1 weg.
- Klemmschraube 7 festdrehen.

5. Vorjustage der Anschläge

Info

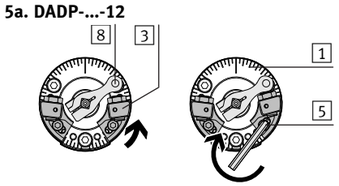


Für eine optimale Schwenkbewegung:
- Anschläge 3 symmetrisch positionieren.



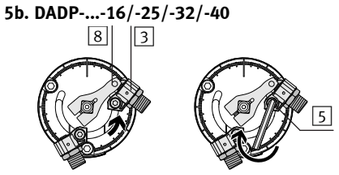
- Den Anschlaghebel 8 in die Endlage drehen die justiert werden soll.

5a. DADP-...-12



- Anschlag 3 an den Anschlaghebel 8 schieben.
➔ Der Anschlag 3 liegt außen bündig an.
- Klemmschraube 5 des Anschlags 3 festdrehen.
- Zweiten Anschlag 3 auf die gleiche Weise vorjustieren.

5b. DADP-...-16/-25/-32/-40



- Anschlag 3 an den Anschlaghebel 8 schieben.
- Klemmschraube 5 des Anschlags 3 festdrehen.
- Zweiten Anschlag 3 auf die gleiche Weise vorjustieren.

6. Feinjustage der Anschläge

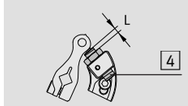
Warnung

Bewegung des Anschlaghebels 8.
Verletzung durch Schlag, Stoß, Quetschung.
- Nicht in den Schwenkbereich greifen.

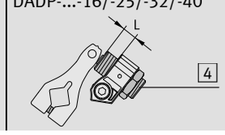
- Schwenkantrieb 10 belüften.
- Schwenkantrieb 10 langsam in die entsprechende Endlage fahren.

Info

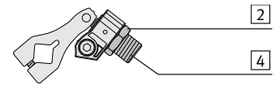
DADP-...-12



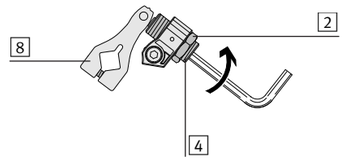
DADP-...-16/-25/-32/-40



DADP-ES-Q12-...			12	16	25	32	40
Ausschraublänge	L	[mm]	0 ... 2,3	0 ... 2,5	0 ... 3	0 ... 4	0 ... 4,5



- Kontermutter 2 leicht aufdrehen.



- Endlage mit der Einstellhülse 4 justieren. Zulässige Ausschraublänge L der Einstellhülsen 4 einhalten (➔ Tabelle).
- Kontermutter 2 festdrehen.
- Zweite Endlage auf die gleiche Weise feinjustieren.
- Probelauf durchführen (➔ Abschnitt 7).

7. Probelauf

- Probelauf mit geringer Schwenkgeschwindigkeit starten.
- Druckluftanschlüsse (A) im Wechsel belüften.
- Korrekte Position der Endlagen prüfen.
- Probelauf bei auftretender Störung unterbrechen (➔ Tabelle).
- Störung beseitigen.
- Schwenkgeschwindigkeit schrittweise steigern.
- Probelauf so oft durchführen, bis keine Störung mehr auftritt.

Störung	Abhilfe
– ungleichförmige Bewegung	– Anschläge 3 symmetrisch positionieren – Abluft statt Zuluft drosseln – ausreichende Druckluftversorgung einrichten
– hartes, hörbares Anschlagen in der Endlage, prellen des Hebels	– Ausschraublänge L einhalten – Masse/Schwenkgeschwindigkeit verringern
– Endlagenposition verschiebt sich im Betrieb	– Klemmschrauben 5 festdrehen – Masse/Schwenkgeschwindigkeit verringern

8. Schraubengrößen und Anziehdrehmomente M_A[2]

DADP-ES-Q12	2	[Nm]	5	[Nm]	6	[Nm]	7	[Nm]
12	M5x0,5	0,8	M3x6	1,2	M4x12	2,2	M3x7	1,2
16	M8x1	2	M3x18	2,1	M5x16	5	M3x12	1
25	M10x1	3	M4x18	4,9	M5x16	5	M3x14	2,1
32	M10x1	3	M5x20	10	M6x12	8	M4x14	2,9
40	M16x1	5	M6x25	16,5	M8x16	12	M4x14	4

[2] Toleranzen für nicht tolerierte Anziehdrehmomente M_A
M_A > 0,6 ... 1 Nm: ± 30 %
M_A > 1 Nm: ± 20 %

Assembly instructions (original: de)
8043960
1504NH

Stop kit DADP-ES-Q12

FESTO

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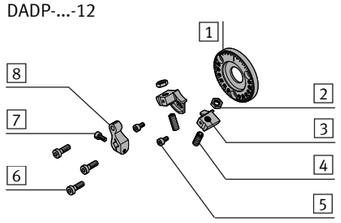
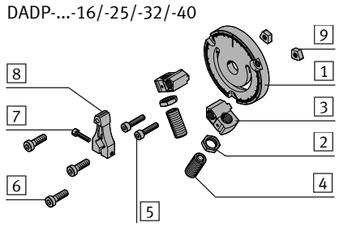
1. Parts list

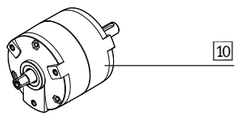
DADP-...-12



DADP-...-16/-25/-32/-40



1	Guide washer	(1x)
2	Lock nut	(2x)
3	Stop	(2x)
4	Adjustment sleeve	(2x)
5	Clamping screw	(2x)
6	Screw	(3x/4x)
7	Clamping screw	(1x)
8	Stop lever	(1x)
9	Slot nut[1]	(2x)



Not included in the scope of delivery:

10	Semi-rotary drive DRVS	(1x)

2. Intended use

Stop kit DADP-ES-Q12:
Infinitely variable adjustment of the swivel angle on semi-rotary drive 10.

3. Safety instructions and notes on mounting

Caution

Unexpected movement of components.
Injury due to electric shocks, impacts or pinching.
- Switch off compressed air before mounting work.

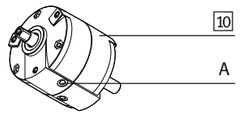
Note

Incorrect mounting can cause malfunction and material damage.
- Observe the tightening torques (➔ section 8).

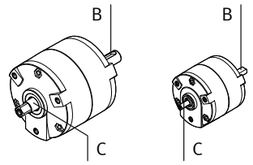
Information

Accessories for the DRVS ➔ www.festo.com/catalogue

4. Mounting



- Align supply ports (A) of the semi-rotary drive 10 downwards.

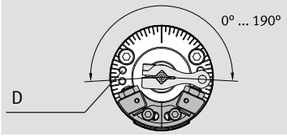


- Align flattening/featherkey groove (B) of drive shaft (C) upwards.

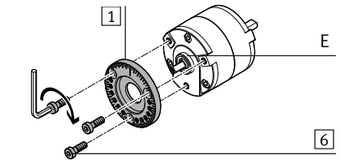
4a. DADP-...-12

Information

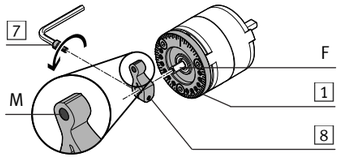
The swivel angle can be adjusted depending on the positioning of the stops 3.



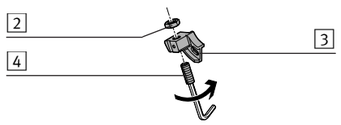
The scale is sub-divided into 5° steps.
The angle between the mounting holes (D) for the stops 3 is 16°.



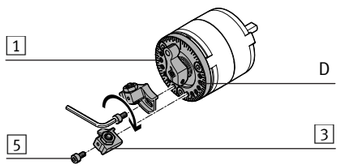
- Align guide washer 1 as shown.
- Place guide washer 1 onto the centering collar (E).
- Secure guide washer 1 with screws 6.



- Plug stop lever 8 onto the square (F).
➔ The stop lever 8 is located in the swivel angle.
➔ The magnet (M) points away from the guide washer 1.
- Tighten clamping screw 7.



- Screw the adjustment sleeves 4 into the thread of the stops 3 to a medium unscrewing length (➔ table, section 6).
- Tighten lock nuts 2.



- Position the stops 3 into the holes (D) according to the required swivel angle.
- Secure the stops 3 onto the guide washer 1 using the clamping screws 5.

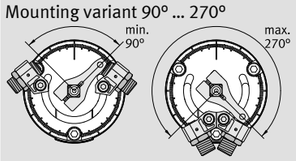
4b. DADP-...-16/-25/-32/-40

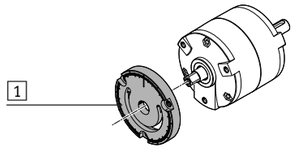
Information

The swivel angle can be adjusted depending on the positioning of the stops 3.
The scale is sub-divided into 2° steps.

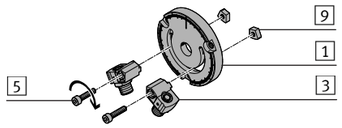
Mounting variant 0° ... 130°

Mounting variant 90° ... 270°



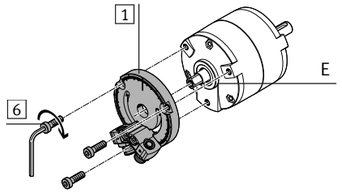


- Align guide washer 1 as shown.

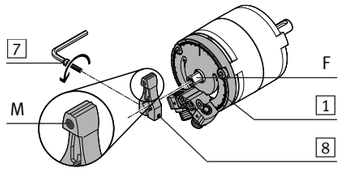


- Position the stops 3 according to the required swivel angle.
- Secure the stops 3 using the clamping screws 5 and the slot nuts 9.

Check: The stops 3 can be moved.



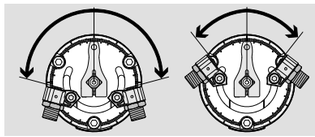
- Place guide washer 1 onto the centering collar (E).
- Secure guide washer 1 with screws 6.



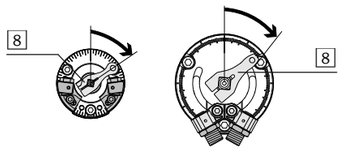
- Plug stop lever 8 onto the square (F).
➔ The stop lever 8 is located in the swivel angle.
➔ The magnet (M) points away from the guide washer 1.
- Tighten clamping screw 7.

5. Preadjustment of stops

Information

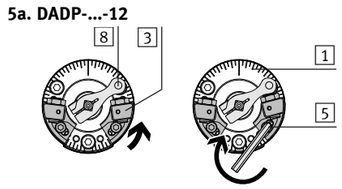


For an optimal swivel motion:
- Position stops 3 symmetrically.



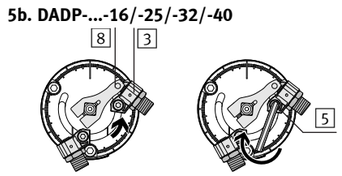
- Turn the stop lever 8 into the end position that needs to be adjusted.

5a. DADP-...-12



- Slide stop 3 onto the stop lever 8.
➔ The stop 3 lies flush with the outside.
- Tighten clamping screw 5 of stop 3.
- Pre-adjust the second stop 3 in the same way.

5b. DADP-...-16/-25/-32/-40



- Slide stop 3 onto the stop lever 8.
- Tighten clamping screw 5 of stop 3.
- Pre-adjust the second stop 3 in the same way.

6. Precision adjustment of the stops

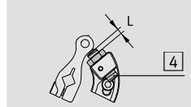
Warning

Movement of the stop lever 8.
Injury due to electric shocks, impacts or pinching.
- Do not reach into the swivel angle.

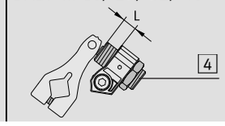
- Pressurize semi-rotary drive 10.
- Slowly move semi-rotary drive 10 to the corresponding end position.

Information

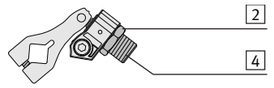
DADP-...-12



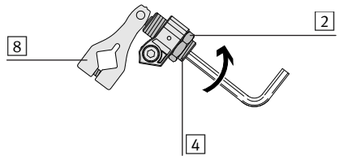
DADP-...-16/-25/-32/-40



DADP-ES-Q12-...		12	16	25	32	40
Unscrewing length L	[mm]	0 ... 2.3	0 ... 2.5	0 ... 3	0 ... 4	0 ... 4.5



- Gently tighten lock nut 2.



- Adjust the end position with adjustment sleeve 4. Observe the permissible unscrewing length L of the adjustment sleeves 4 (➔ table).
- Tighten the lock nut 2.
- Precisely adjust the second end position in the same way.

- Perform a test run (➔ section 7).

7. Test run

- Start a test run at low swivel speed.
- Vent supply ports (A) alternately.
- Check that end positions are correctly positioned.
- Interrupt the test run if a malfunction occurs (➔ table).
- Remedy the malfunction.
- Gradually increase the swivel speed.
- Perform the test run until no more malfunctions occur.

Malfunctions	Remedy
– Uneven movement	– Position stops 3 symmetrically – Throttle exhaust air instead of supply air – Ensure a sufficient compressed air supply
– Hard, audible impact at the end position, bouncing of the lever	– Observe unscrewing length L – Reduce load/swivel speed
– The position of the end position shifts during operation	– Tighten clamping screws 5 – Reduce load/swivel speed

8. Screw sizes and tightening torques M_A[2]

DADP-ES-Q12	2	[Nm]	5	[Nm]	6	[Nm]	7	[Nm]
12	M5x0.5	0.8	M3x6	1.2	M4x12	2.2	M3x7	1.2
16	M8x1	2	M3x18	2.1	M5x16	5	M3x12	1
25	M10x1	3	M4x18	4.9	M5x16	5	M3x14	2.1
32	M10x1	3	M5x20	10	M6x12	8	M4x14	2.9
40	M16x1	5	M6x25	16.5	M8x16	12	M4x14	4

[1] Not included in the scope of delivery for DADP-...-12.

[2] Tolerances for non-toleranced tightening torques M_A
M_A > 0.6 ... 1 Nm: ± 30 %
M_A > 1 Nm: ± 20 %