

Adapterbausatz

HAPG-SD2 – HGP/HGR/HGW/ DHPS/DHRS/DHWS

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i Info

Der Bausatz enthält alle maximal erforderlichen Befestigungselemente.

- Beachten Sie, dass bei einigen Kombinationen Befestigungselemente übrig bleiben.

Um die Greifrichtung der Greifer zu ändern:

Zu Bild 1, 2, 3 und 4:

- Montieren Sie die Adapterplatte **2** um 90° versetzt auf den Antrieb **1**.

Zu Bild 5 und 6:

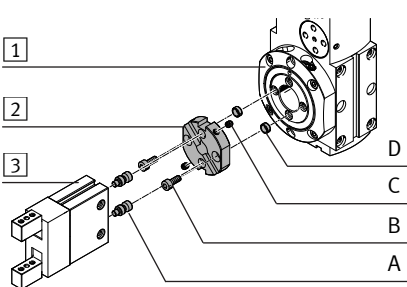
- Montieren Sie die Abtriebsplatte (Z) um 90° versetzt auf den Antrieb 1.

Zu Bild 7 und 8:

- Beachten Sie, dass eine Änderung der Greifrichtung nicht möglich ist.

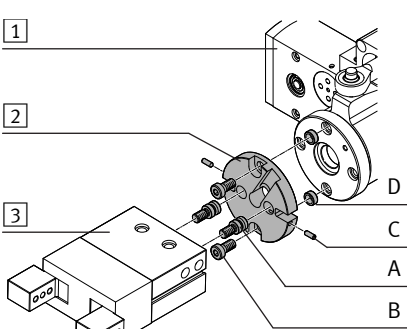
Zur Montage

- Wählen Sie die Befestigungselemente (Schrauben usw.) für Ihre Kombination (→ Tabelle).
- Beachten Sie die Bildzuordnung für Ihre Kombination (→ Tabelle).



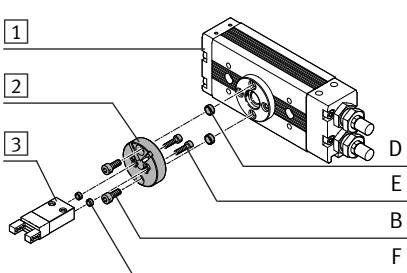
- 1 Drehmodul
ERMB
- 2 Adapterbausatz
HAPG-SD2
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 2



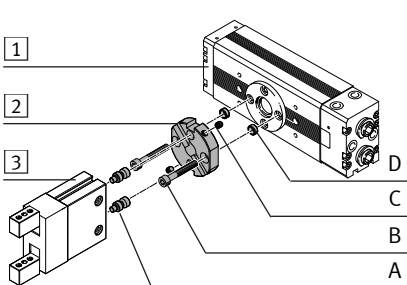
- 1 Dreh-Hub-Modul
EHMB
- 2 Adapterbausatz
HAPG-SD2
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 3



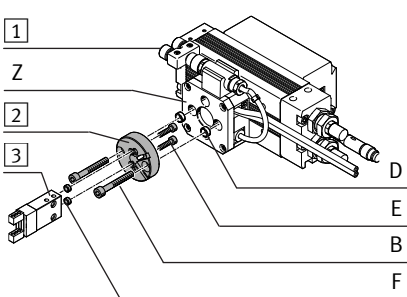
- 1 Schwenkantrieb
DRQD-16-...-FW
- 2 Adapterbausatz
HAPG-SD2-12
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 4



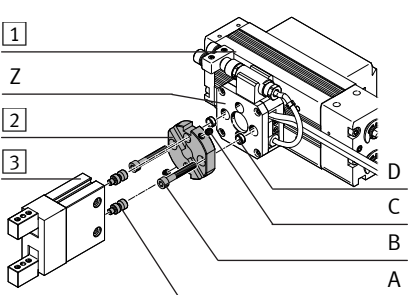
- 1 Schwenkantrieb
DRQD-...-FW
- 2 Adapterbausatz
HAPG-SD2
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 5



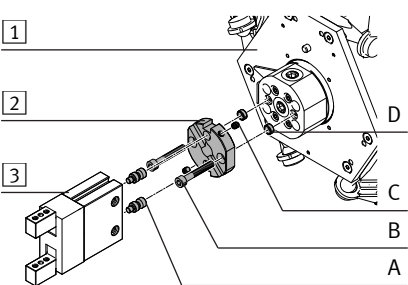
- 1 Schwenkantrieb mit
Flanschwellen-
durchführung
DRQD-16-...-E422/E444
- 2 Adapterbausatz
HAPG-SD2-12
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 6



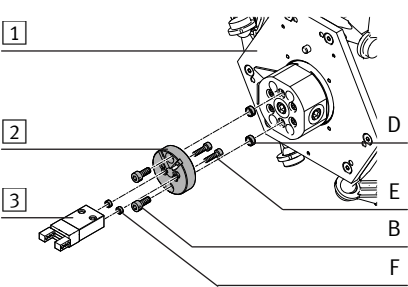
- 1 Schwenkantrieb mit
Flanschwellen-
durchführung
DRQD-...-E422/E444
- 2 Adapterbausatz
HAPG-SD2
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 7



- 1 Stabkinematik
EXPT
- 2 Adapterbausatz
HAPG-SD2
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild 8



- 1 Stabkinematik
EXPT
- 2 Adapterbausatz
HAPG-SD2-12
- 3 Greifer
HGP/HGR/HGW
DHPS/DHRS/DHWS

Bild		1						2				3		4						5				6						7		8			
[1] Antrieb		ERMB-						EHMB-				DRQD-....-FW-		DRQD-....-FW-						DRQD-....-E422 / E444-				DRQD-....-E422 / E444-						EXPT-		EXPT-			
		20		25		32		20		25/32		16		16		20		25		32		40/50		16		16		20		25		32		45/70/95/120 ⁴⁾	
[2] Bausatz		HAPG-SD2-						HAPG-SD2-				HAPG-SD2-		HAPG-SD2-						HAPG-SD2-				HAPG-SD2-						HAPG-SD2-		HAPG-SD2-			
		3	4	6	7	9	10	9	10	21	12	1	2	3	4	6	7	9	10	21	12	1	2	3	4	6	7	9	10	1	2	12			
[3] Greifer	HGP-/DHPS-	16/20	25	16/20	25	25	35	25	35	35	6	10	16/20	16/20	25	16/20	25	25	35	35	6	10	16/20	16/20	25	16/20	25	25	35	35	10	16	6		
	HGR-/DHRS-	25	32	25	32	32	40	32	40	40	10	16	25	25	32	25	32	32	40	40	10	16	25	25	32	25	32	32	40	40	16	25	10		
	HGW-/DHWS-	25	32	25	32	32	40	32	40	40	10	16	25	25	32	25	32	32	40	40	10	16	25	25	32	25	32	32	40	40	16	25	10		
		M _A ¹⁾ [Nm]																																	
A Gewindebolzen																																			
HAPG-ZB-5	1,2											2x												2x								2x			
HAPG-ZB-7	3	2x			2x							2x		2x			2x							2x		2x			2x			2x			
HAPG-ZB-9	10	2x		2x		2x			2x					2x		2x	2x						2x		2x		2x		2x		2x				
HAPG-ZB-12	20					2x		2x		2x							2x		2x									2x							
B Zylinderschraube																																			
M4x10 DIN 912	3	2x							2x		2x																		2x		2x				
M4x30 DIN 912																		2x		2x	2x														
M6x12 DIN 7984	10			2x	2x		2x						2x		2x																				
M6x35 DIN 6912																								2x		2x									
M8x16 DIN 7984	25							2x								2x																			
C Gewindestift nach DIN 914																																			
M4x6	3	2x	2x		2x		2x				2x		2x		2x		2x				2x		2x		2x		2x		2x		2x				
M4x12								2x								2x																			
D Zentrierhülse																																			
ZBH-7		2x							2x		2x		2x						2x ³⁾		2x ³⁾		2x ³⁾						2x		2x				
ZBH-9		2x		2x		2x						2x		2x				2x ³⁾		2x ³⁾															
ZBH-12								2x								2x																			
E Zylinderschraube nach DIN 912																																			
M3x12	1,2							2x								2x																2x			
F Zentrierhülse																																			
ZBH-5								2x ²⁾								2x ²⁾																2x ²⁾			

¹⁾ Toleranzen für nicht tolerierte Anziehdrehmomente $M_A > 1 \text{ Nm}$: $\pm 20 \%$

²⁾ Diese Zentrierhülsen liegen dem Greifer bei.

³⁾ Diese Zentrierhülsen liegen dem Antrieb bei.

4) -nicht bei EXPT-...-T0
-pneumatische Greifer nur bei EXPT-...-T2 und EXPT-...-T4

Adapter kit
HAPG-SD2 – HGP/HGR/HGW/
DHPS/DHRS/DHWS

FESTO

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Germany
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Information

The kit contains all the mounting attachments that may be required.

- Observe that, for some combinations, mounting components may be left over.

To change the gripping direction of the gripper:

On Fig. 1, 2, 3 and 4:

- Mount the adapter plate 2 off-set 90° onto the drive 1.

On Fig. 5 and 6:

- Mount the through-feed cover plate (Z) off-set 90° onto the drive 1.

On Fig. 7 and 8:

- Observe that a change in the gripping direction is not possible.

On mounting

- Select the mounting components (screws, etc.) for your combination (→ Table).
- Observe the illustration assignment for your combination (→ Table).

Fig.		1						2			3	4										5					6					7			8				
[1] Drive		ERMB-						EHMB-			DRQD-...-FW-	DRQD-...-FW-										DRQD-...-E422 / E444-					DRQD-...-E422 / E444-					EXPT-			EXPT-				
		20		25		32		20		25/32	16	16		20		25		32		40/50		16	16		20		25		32		45/70/95/120 ⁴⁾			45/70/95/120 ⁴⁾					
[2] Kit		HAPG-SD2-						HAPG-SD2-			HAPG-SD2-			HAPG-SD2-										HAPG-SD2-					HAPG-SD2-					HAPG-SD2-			HAPG-SD2-		
		3	4	6	7	9	10	9	10	21	12	1	2	3	4	6	7	9	10	21	12	1	2	3	4	6	7	9	10	1	2	12							
[3] Gripper	HGP-/DHPS- HGR-/DHRS- HGW-/DHWS-	16/20	25	16/20	25	25	35	25	35	35	6	10	16/20	16/20	25	16/20	25	25	35	35	6	10	16/20	16/20	25	16/20	25	25	35	10	16	6							
		25	32	25	32	32	40	32	40	40	10	16	25	25	32	25	32	32	40	40	10	16	25	25	32	25	32	32	40	16	25	10							
		25	32	25	32	32	40	32	40	40	10	16	25	25	32	25	32	32	40	40	10	16	25	25	32	25	32	32	40	16	25	10							
		M _A ¹⁾ [Nm]																																					
A Threaded bolts																																							
HAPG-ZB-5	1.2											2x												2x								2x							
HAPG-ZB-7	3	2x		2x									2x	2x		2x									2x	2x		2x					2x						
HAPG-ZB-9	10		2x		2x	2x		2x							2x	2x											2x		2x	2x									
HAPG-ZB-12	20					2x			2x	2x								2x	2x										2x										
B Socket head screw																																							
M4x10 DIN 912	3	2x							2x		2x		2x																2x		2x								
M4x30 DIN 912																		2x		2x		2x																	
M6x12 DIN 7984	10			2x	2x		2x						2x		2x																								
M6x35 DIN 6912																						2x		2x															
M8x16 DIN 7984	25							2x								2x																							
C Threaded pin in accordance with DIN 914																																							
M4x6	3	2x	2x		2x		2x				2x		2x		2x		2x						2x		2x		2x		2x		2x								
M4x12								2x								2x																							
D Centring sleeve																																							
ZBH-7		2x							2x		2x								2x ³⁾		2x ³⁾		2x ³⁾						2x		2x								
ZBH-9				2x	2x		2x						2x		2x						2x ³⁾		2x ³⁾																
ZBH-12								2x								2x																							
E Socket head screw in accordance with DIN 912																																							
M3x12	1.2									2x										2x												2x							
F Centring sleeve																																							
ZBH-5										2x ²⁾										2x ²⁾												2x ²⁾							

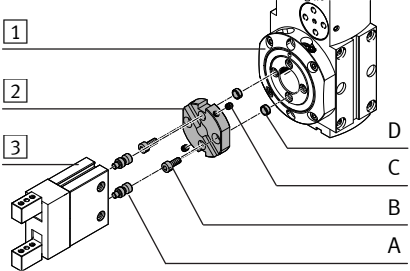
¹⁾ Tolerances for non-toleranced tightening torques M_A > 1 Nm: ± 20 %

²⁾ These centring sleeves are included with the gripper.

³⁾ These centring sleeves are included with the drive.

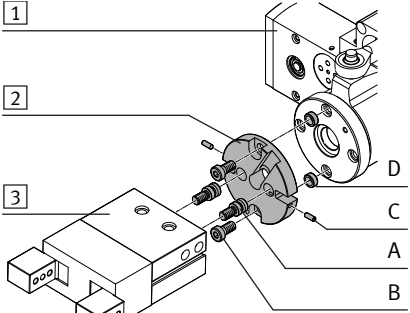
⁴⁾ -Not for EXPT-...-T0
-Pneumatic gripper only with EXPT-....-T2 and EXPT-....-T4

Fig. 1



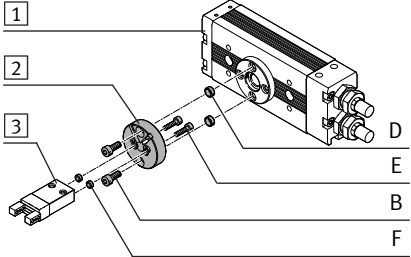
- 1 Rotary module
ERMB
- 2 Adapter kit
HAPG-SD2
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 2



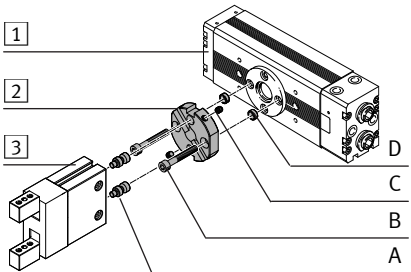
- 1 Rotary/lifting module
EHMB
- 2 Adapter kit
HAPG-SD2
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 3



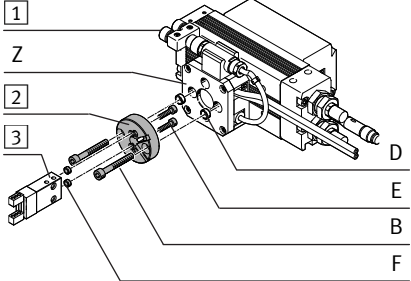
- 1 Semi-rotary drive
DRQD-16-...-FW
- 2 Adapter kit
HAPG-SD2-12
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 4



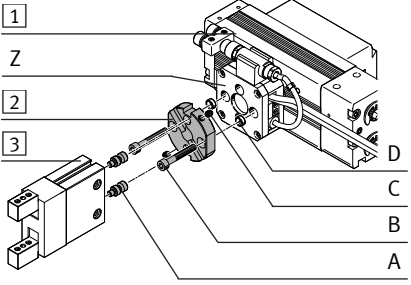
- 1 Semi-rotary drive
DRQD-...-FW
- 2 Adapter kit
HAPG-SD2
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 5



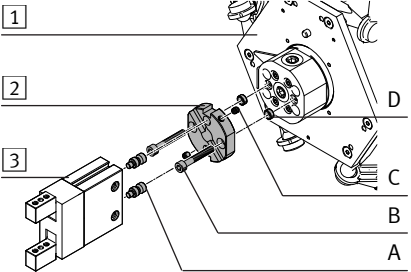
- 1 Semi-rotary drive with
flanged shaft
with energy through-feed
DRQD-16-...-E422/E444
- 2 Adapter kit
HAPG-SD2-12
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 6



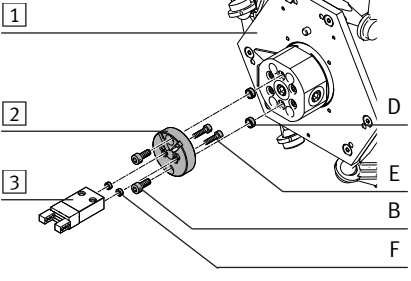
- 1 Semi-rotary drive with
flanged shaft with
energy through-feed
DRQD-...-E422/E444
- 2 Adapter kit
HAPG-SD2
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 7



- 1 Parallel kinematic
system EXPT
- 2 Adapter kit
HAPG-SD2
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS

Fig. 8



- 1 Parallel kinematic
system EXPT
- 2 Adapter kit
HAPG-SD2-12
- 3 Gripper
HGP/HGR/HGW
DHPS/DHRS/DHWS