Montageanleitung (Original: de)
8024674
1303f

Adapterbausatz HAPG-SD2 – HGDT/HGDD

FESTO

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Info

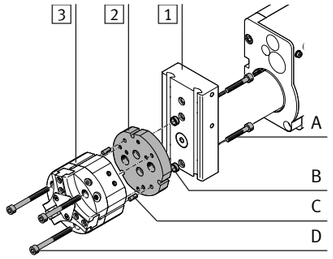
Der Bausatz enthält alle maximal erforderlichen Befestigungselemente.

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

Zur Montage

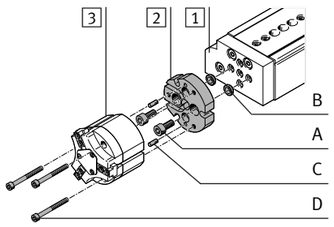
- Wählen Sie die Befestigungselemente (Schrauben, usw.) für Ihre Kombination (➔ Tabelle).
- Beachten Sie die Bildzuordnung für Ihre Kombination (➔ Tabelle).

Bild 1



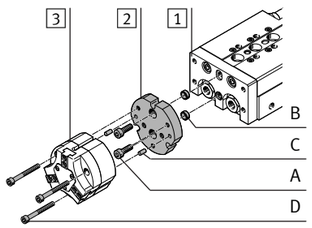
1 Linearmodul HMP
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 2



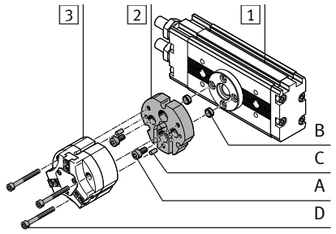
1 Mini-Schlitten DGSL/EGSL
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 3



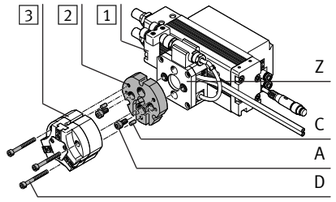
1 Mini-Schlitten SLT
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 4



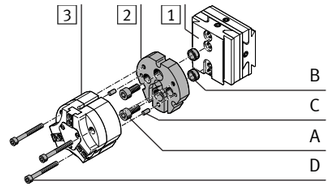
1 Schwenkantrieb DRQD
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 5



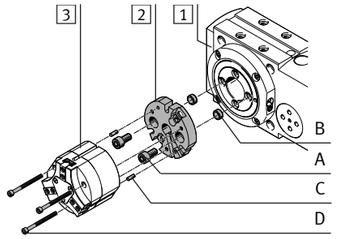
1 Schwenkantrieb DRQD-...-E422/-E444
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 6



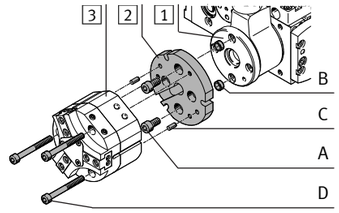
1 X/Y-Justiereinheit HMXY
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 7



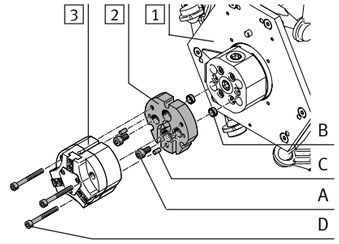
1 Drehmodul ERMB
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 8



1 Dreh-Hub-Modul EHMB
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDD/HGDT

Bild 9



1 Stabkinematik EXPT
2 Adapterbausatz HAPG-SD2
3 Dreipunktgreifer HGDT

Bild		1			2				3		4							5									6	7							8			9
1 Antrieb		HMP-			DGSL-		EGSL-		SLT-		DRQD-							DRQD-...-E422-/-E444-									HMXY-	ERMB-							EHMB-			EXPT-
		20	25	32	16	25	45/55	75	20	25	16	20/25	20	25	32	25/32	32	16	20	25	20	25	32	25	32	32	1	20	25	20	25	32	25	32	32	20			45/70/95/120[3]
2 Bausatz		HAPG-SD2-			HAPG-SD2-				HAPG-SD2-									HAPG-SD2-									HAPG-SD2-	HAPG-SD2-							HAPG-SD2-			HAPG-SD2-
		36			32	36	32	36	32	36	32	33	34			35	36	32	33		34			35		36	32	33		34			35		36	34	35	36	32
3 Greifer		HGDD-/HGDT-			HGDD-/HGDT-				HGDD-/HGDT-		HGDD-/HGDT-							HGDD-/HGDT-									HGDD-/HGDT-	HGDD-/HGDT-							HGDD-/HGDT-			HGDT-
		50			25	50	25	50	25	50	25		35			40	50	25			35			40		50	25	25		35			40		50	35	40	50	25
	M_A[1] [Nm]																																						
A Zylinderschraube nach DIN 912																																							
M4x10	3										2x		2x															2x		2x								2x
M4x30																		2x		2x																		
M5x12	6				2x		2x		2x																		2x											
M5x25		2x																																				
M5x30			2x																																			
M6x12	10											2x		2x	2x	2x													2x		2x	2x	2x	2x			
M6x16						2x		2x		2x																												
M6x35																			2x		2x	2x	2x														
B Zentrierhülse																																						
ZBV-9-7					2x		2x																															
ZBV-12-9						2x		2x																														
ZBH-7											2x		2x					2x		2x								2x		2x								2x
ZBH-9		2x							2x			2x		2x	2x	2x			2x		2x	2x	2x	2x			2x			2x		2x	2x	2x	2x			
ZBH-12										2x																												
C Zylinderstift nach DIN 6325																																						
3m6x8					2x		2x		2x		2x							2x									2x	2x										2x
3m6x10													2x							2x										2x						2x			
4m6x10															2x							2x											2x				2x		
5m6x12		2x				2x		2x		2x						2x							2x												2x			2x	
D Zylinderschraube nach DIN 912																																						
M3x35	1,2				3x		3x		3x		3x							3x									3x	3x										3x
M3x40													3x[2]							3x[2]										3x[2]						3x[2]			
M3x50													3x[2]							3x[2]										3x[2]						3x[2]			
M5x45	6														3x[2]							3x[2]											3x[2]				3x[2]		
M5x65															3x[2]							3x[2]											3x[2]				3x[2]		
M6x55	10	3x[2]				3x[2]		3x[2]		3x[2]						3x[2]							3x[2]											3x[2]				3x[2]	
M6x70		3x[2]				3x[2]		3x[2]		3x[2]						3x[2]							3x[2]											3x[2]				3x[2]	

[1] Toleranzen für nicht tolerierte Anziehdrehmomente M_A > 1 Nm: ± 20 %

[2] HGDD-/HGDT-...-G1/G2: lange Schrauben
HGDD/HGDT: kurze Schrauben

[3] -nicht bei EXPT-...-T0
-pneumatische Greifer nur bei EXPT-...-T2 und EXPT-...-T4

Assembly instructions (original: de)
8024674
1303f

Adapter kit
HAPG-SD2 – HGDT/HGDD

FESTO

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www.festo.com

Information

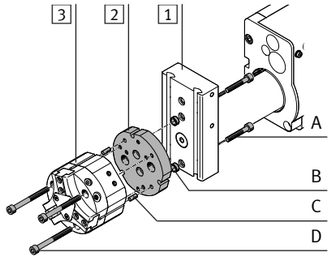
The kit contains all the mounting attachments that may be required.

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

On mounting

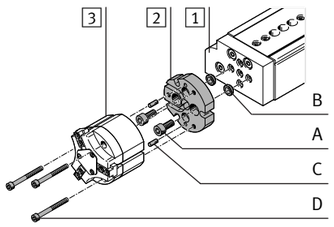
- Select the mounting components (screws, etc.) for your combination (➔ Table).
- Observe the illustration assignment for your combination (➔ Table).

Fig. 1



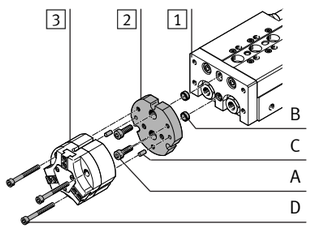
1 Linear module HMP
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 2



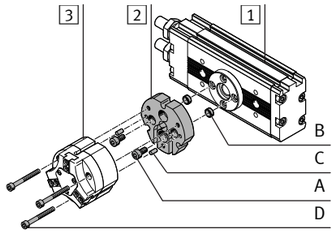
1 Mini slide DGSL/EGSL
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 3



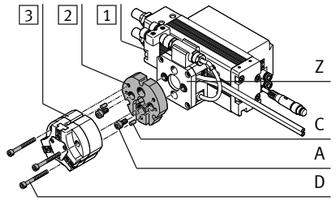
1 Mini slide SLT
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 4



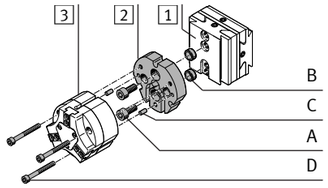
1 Semi-rotary drive DRQD
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 5



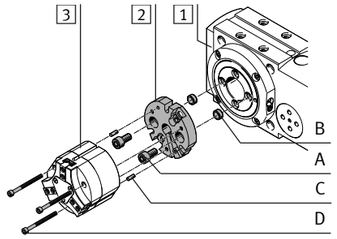
1 Semi-rotary drive DRQD-...-E422/-E444
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 6



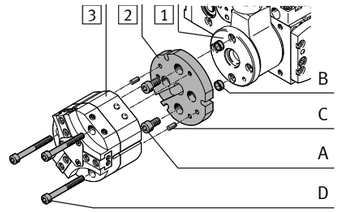
1 X/Y adjusting unit HMXY
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 7



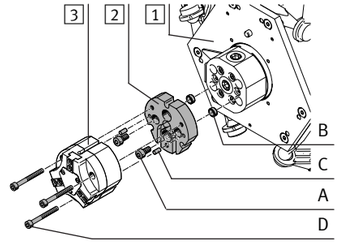
1 Rotary module ERMB
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 8



1 Rotary/lifting module EHMB
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDD/HGDT

Fig. 9



1 Parallel kinematic system EXPT
2 Adapter kit HAPG-SD2
3 Three-point gripper HGDT

Fig.		1			2				3		4							5									6	7							8			9
1 Drive		HMP-			DGSL-		EGSL-		SLT-		DRQD-							DRQD-...-E422-/-E444-									HMXY-	ERMB-							EHMB-			EXPT-
		20	25	32	16	25	45/55	75	20	25	16	20/25	20	25	32	25/32	32	16	20	25	20	25	32	25	32	32	1	20	25	20	25	32	25	32	32	20			45/70/95/120[3]
2 Kit		HAPG-SD2-			HAPG-SD2-				HAPG-SD2-									HAPG-SD2-									HAPG-SD2-	HAPG-SD2-							HAPG-SD2-			HAPG-SD2-
		36			32	36	32	36	32	36	32	33	34			35	36	32	33		34			35		36	32	33		34			35		36	34	35	36	32
3 Gripper		HGDD-/HGDT-			HGDD-/HGDT-				HGDD-/HGDT-		HGDD-/HGDT-							HGDD-/HGDT-									HGDD-/HGDT-	HGDD-/HGDT-							HGDD-/HGDT-			HGDT-
		50			25	50	25	50	25	50	25		35			40	50	25			35			40		50	25	25		35			40		50	35	40	50	25
	M_A[1] [Nm]																																						
A Socket head screw in accordance with DIN 912																																							
M4x10	3										2x		2x															2x		2x								2x
M4x30																		2x		2x																		
M5x12	6				2x		2x		2x																		2x											
M5x25		2x																																				
M5x30			2x																																			
M6x12	10											2x		2x	2x	2x													2x		2x	2x	2x	2x			
M6x16						2x		2x		2x																												
M6x35																			2x		2x	2x	2x														
B Centring sleeve																																							
ZBV-9-7					2x		2x																															
ZBV-12-9						2x		2x																														
ZBH-7											2x		2x					2x		2x								2x		2x								2x
ZBH-9		2x							2x			2x		2x	2x	2x			2x		2x	2x	2x	2x			2x			2x		2x	2x	2x	2x			
ZBH-12										2x																												
C Cylindrical dowel pin in accordance with DIN 6325																																							
3m6x8					2x		2x		2x		2x							2x									2x	2x										2x
3m6x10													2x							2x										2x						2x			
4m6x10															2x							2x											2x				2x		
5m6x12		2x				2x		2x		2x						2x							2x												2x			2x	
D Socket head screw in accordance with DIN 912																																							
M3x35	1.2				3x		3x		3x		3x							3x									3x	3x										3x
M3x40													3x[2]							3x[2]										3x[2]						3x[2]			
M3x50													3x[2]							3x[2]										3x[2]						3x[2]			
M5x45	6														3x[2]							3x[2]										3x[2]					3x[2]		
M5x65															3x[2]							3x[2]										3x[2]					3x[2]		
M6x55	10	3x[2]				3x[2]		3x[2]		3x[2]						3x[2]							3x[2]											3x[2]				3x[2]	
M6x70		3x[2]				3x[2]		3x[2]		3x[2]						3x[2]							3x[2]											3x[2]				3x[2]	

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

[2] HGDD-/HGDT-...-G1/G2: long screws
HGDD/HGDT: short screws

[3] -Not for EXPT-...-T0
- Pneumatic gripper only with EXPT-...-T2 and EXPT-...-T4