

Power Clamp Cylinder DFAP

FESTO



Type Code

DFAP - 63 - H - 15 - C - S - M - S1 - CS

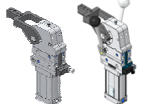
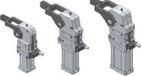
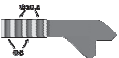
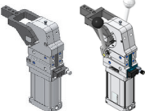
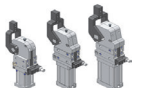
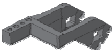
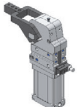
Series	
Double-acting	
DFAP	Power Clamp Cylinder - DIN standard
Piston diameter Ø [mm]	
40,50,63,80	
Clamp arm configuration	
N	No clamp arm
H	With horizontally mounted clamp arm
V	With vertically mounted clamp arm
Offset distance of clamp arm	
15	15mm***
20	20mm****
45	45mm
Clamp arm position (refer to the sensor-facing side)	
L	Clamp arm on the left
C	Clamp arm in the centre
R	Clamp arm on the right
Size of clamp arm hole	
B*	Big hole variant, Ø8 and Ø10.2
S**	Small hole variant, Ø6 and Ø9
Manual control	
M	
Sensor type	
S1	Inductive sensor, PNP
S2	Inductive sensor, NPN

* Only with piston diameters of 50 and 63.

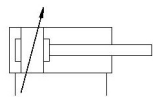
** With size 40, the small holes should be Ø6 and Ø7.

*** Only with sizes 40, 50, and 63

*** Only with size 80

DFAP	-	63	-	V	-	15	-	C	-	M	-	B	-	S1	-	CS
Piston diameter Ø [mm]		Clamp arm configuration		Offset distance of clamp arm		Clamp arm position (refer to the sensor- facing side)		Handle		Size of clamp arm hole		Sensor type				
40		N - No clamp arms 	15-15mm 	L - Clamp arm on the left 		S** - Small hole variant Ø6 centring hole Ø9 bolt through-hole 	S1 - Inductive sensor, PNP 									
50		H - With horizontally mounted clamp arm 	45-45mm 	C - Clamp arm in the centre 		B* - Large hole variant Ø8 centring hole Ø10.2 bolt through- hole 	S2 - Inductive sensor, NPN 									
63		V - With vertically mounted clamp arm 		R - Clamp arm on the right 												
80																

Technical Data



- Product features**
- Toggle link
 - Clamp arm available in various specifications
 - Mounting possible from any of the four sides, with mounting dimensions conforming to the DIN standard
 - High strength aluminum alloy, with integrated and lightweight design
 - Various welding filed immune sensors available (PNP or NPN) as options
 - Specially designed high-strength oval cylinder with long service life
 - Stepless adjustment 5-135, easy for adjustment and maintenance
 - Pneumatic end-position cushioning, helpful to optimize production efficiency
 - Manual control: handle, which can be installed either on the left or right side



Piston diameter: 50, 63, and 80



Piston diameter: 40

General technical data				
Piston diameter Ø	40	50	63	80
Pneumatic connection	G1/8	G1/4	G1/4	G1/4
Maximum clamp torque [Nm]	120	200	380	800
Maximum holding torque [Nm]	380	800	1500	2500
Design	Double-acting piston cylinder with clamp function			
Operating mode	Double-acting			
Clamp/opening speed*	1s			
Max. opening angle horizontal and vertical	Refer to drawings			
Product weight** [g]	1420/1620 (with handle)	2620/3000 (with handle)	3300/4000 (with handle)	13100

Operating and environmental conditions	
Operating medium	Filtered compressed air to ISO 8573-1:2010 [7:4:4]
Operating pressure [bar]	3 ... 7
Ambient temperature [°C]	-10 ... 60

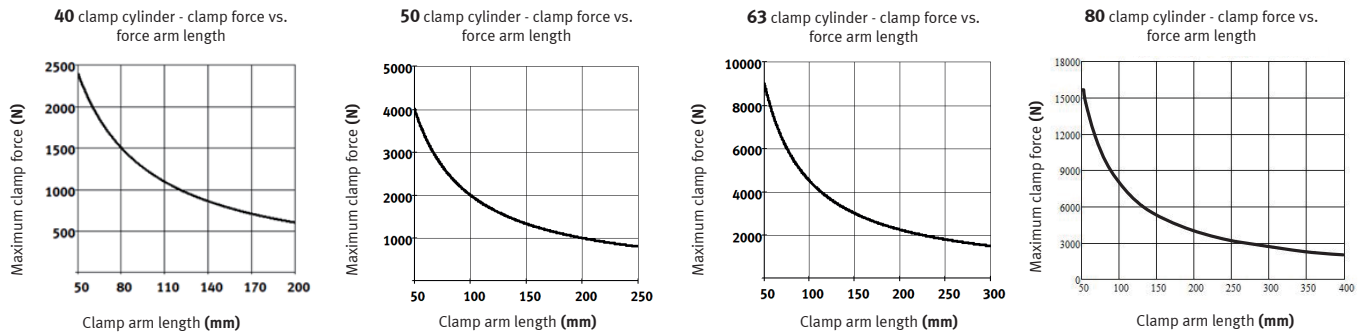
* No-load speed, with clamp arm
** Weight of product without clamp arm

Materials

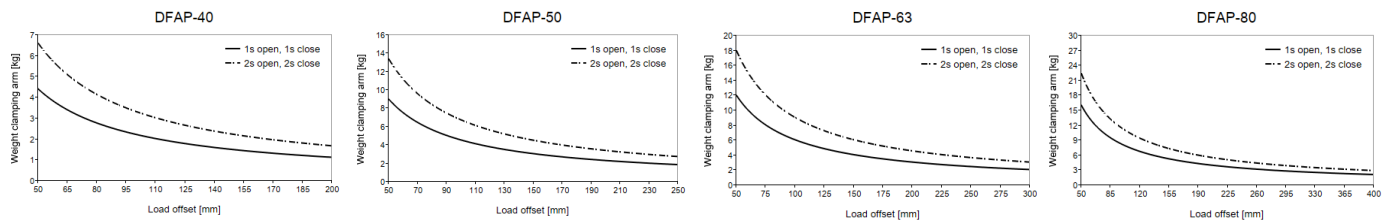
Housing	Wrought aluminium alloy
Bearing cap	Wrought aluminium alloy
End cap	Wrought aluminium alloy
Piston rod	High quality alloy steel
Internal structural parts	High alloy wear resistant steel

Technical Data

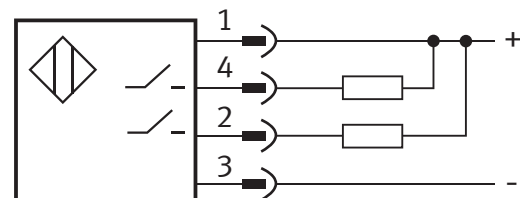
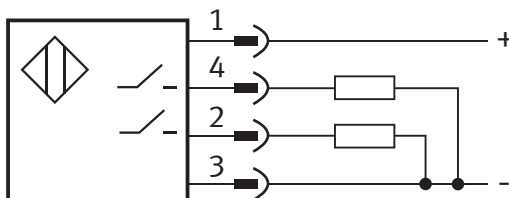
Clamp force vs. arm length



Load as a function of arm length

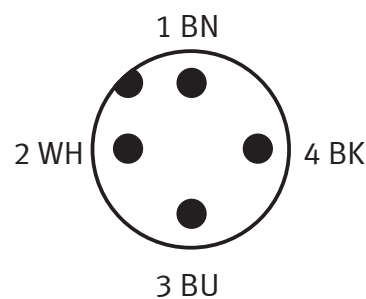


Pin wiring



Electrical interface: M12 × 1

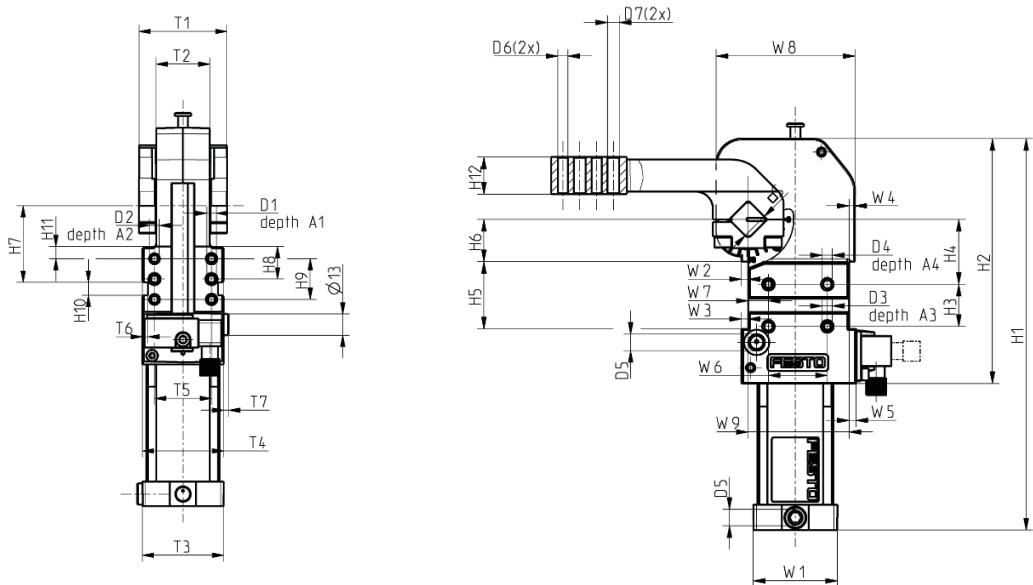
- 1 BN: +
- 2 WH: Out (S02)
- 3 BU: -
- 4 BK: Out (S01)



Technical Data

Dimensions - Size 40, without handle

Download CAD data → www.festo.com



Note
For the ordering information of sensors, please contact the Festo sales engineer.

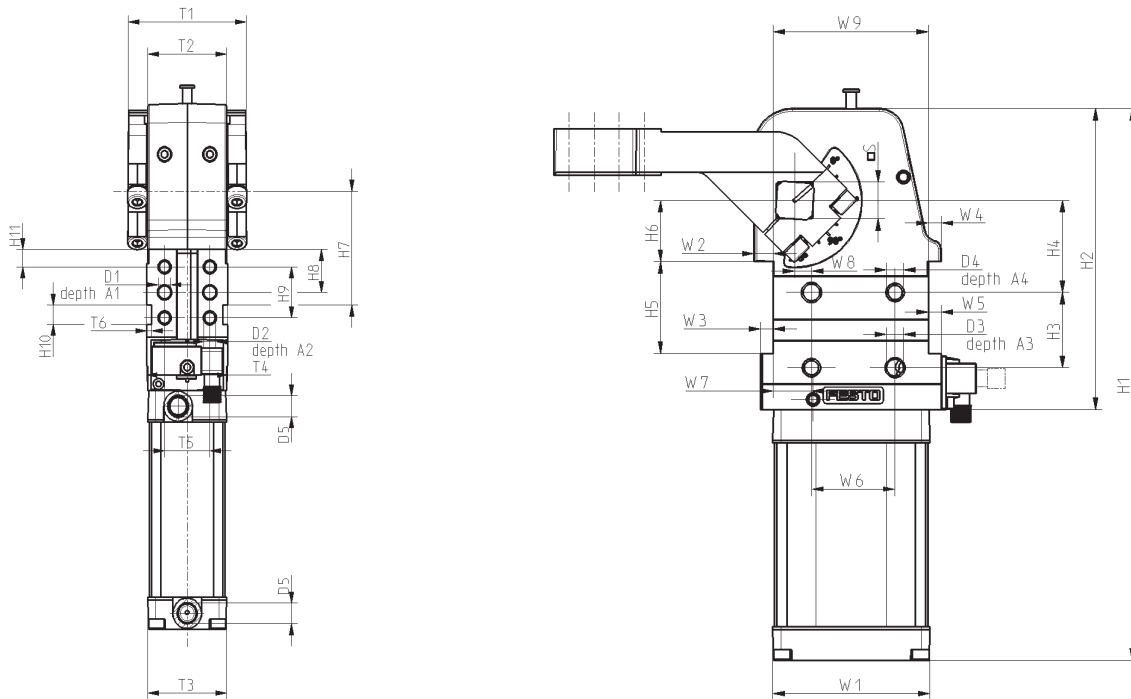
Type	Product weight (with clamp arm)	H1	H2	H3*	H4 ±0.05	H5 -0.1	H6 ±0.05	H7 ±0.05	H8 ±0.05	H9 ±0.1	H10 N9	H11 ±0.1	H12 ±0.1	T1	T2	T3	T4	T5*	T6
DFAP-40-...-CS	1850 g	232.5	145.5	25	38.5	40	25	47	20	25	8	7.5	22	54	33	50	50	35	3.5

Type	T7	W1	W2	W3	W4	W5	W6*	W7 ±0.05	W8	W9 ±0.1	D1 H7	D2	D3 H7	D4	D5 H7	D6 H7	D7	A1	A2	A3	A4	S h9
DFAP-40-...-CS	3	50	4	4	3.3	4	35	12	82.5	60	6	M6	6	M6	G1/8	6	7	10	10	10	10	16

Ordering data																					
Type		Size			Part No.		Type														
DFAP	40				8170676	DFAP-40-H-15-L-S-S1-CS															
					8170677	DFAP-40-H-15-C-S-S1-CS															
					8170678	DFAP-40-H-15-R-S-S1-CS															
					8170679	DFAP-40-H-45-L-S-S1-CS															
					8170680	DFAP-40-H-45-C-S-S1-CS															
					8170681	DFAP-40-H-45-R-S-S1-CS															
					8170682	DFAP-40-V-15-L-S-S1-CS															
					8170683	DFAP-40-V-15-C-S-S1-CS															
					8170684	DFAP-40-V-15-R-S-S1-CS															
					8170685	DFAP-40-V-45-L-S-S1-CS															
					8170686	DFAP-40-V-45-C-S-S1-CS															
					8170687	DFAP-40-V-45-R-S-S1-CS															
					8170688	DFAP-40-N-S1-CS															
					8170689	DFAP-40-H-15-L-S-S2-CS															
					8170690	DFAP-40-H-15-C-S-S2-CS															
					8170691	DFAP-40-H-15-R-S-S2-CS															
					8170692	DFAP-40-H-45-L-S-S2-CS															
					8170693	DFAP-40-H-45-C-S-S2-CS															
					8170694	DFAP-40-H-45-R-S-S2-CS															
					8170695	DFAP-40-V-15-L-S-S2-CS															
					8170696	DFAP-40-V-15-C-S-S2-CS															
					8170697	DFAP-40-V-15-R-S-S2-CS															
					8170698	DFAP-40-V-45-L-S-S2-CS															
					8170699	DFAP-40-V-45-C-S-S2-CS															
					8170700	DFAP-40-V-45-R-S-S2-CS															
					8170701	DFAP-40-N-S2-CS															

Technical Data

Dimensions - Sizes 50 and 63, without handle

Download CAD data → www.festo.com**Note**

For the ordering information of sensors, please contact the Festo sales engineer.

Ø [mm]	Product weight (with clamp arm)	H1	H2	H3*	H4 ±0.05	H5 -0.1	H6 ±0.05	H7 ±0.05	H8 ±0.05	H9 ±0.1	H10 N9	H11 ±0.1	T1
50	3600 g	316	175	45	55	55	36.5	71.5	27	32	12	11	68
63	4400 g	330	180	45	55	55	36.5	71.5	27	32	12	11	78

Ø [mm]	T2	T3	T4	T5*	T6	W1	W2	W3	W4	W5	W6*	W7 ±0.1	W8 ±0.05
50	46	44	48	30	3.5	72	10	6.5	5.5	4.5	50	23	10
63	52	52	54	30	3.5	94	11.5	7.5	5.5	4.5	50	23	10

Ø [mm]	W9 ±0.1	D1 H7	D2	D3 H7	D4	D5	S h9	A1	A2	A3	A4	S h9
50	93	8	M8	10	M10	G1/4	19	10	11	12	12	19
63	93	8	M8	10	M10	G1/4	22	10	11	12	12	22

Technical Data

Ordering data		Part No.	Type
Type	Size		
DFAP	50	8170702	DFAP-50-H-15-L-S-S1-CS
		8170703	DFAP-50-H-15-C-S-S1-CS
		8170704	DFAP-50-H-15-R-S-S1-CS
		8170705	DFAP-50-H-45-L-S-S1-CS
		8170706	DFAP-50-H-45-C-S-S1-CS
		8170707	DFAP-50-H-45-R-S-S1-CS
		8170708	DFAP-50-V-15-L-S-S1-CS
		8170709	DFAP-50-V-15-C-S-S1-CS
		8170710	DFAP-50-V-15-R-S-S1-CS
		8170711	DFAP-50-V-45-L-S-S1-CS
		8170712	DFAP-50-V-45-C-S-S1-CS
		8170713	DFAP-50-V-45-R-S-S1-CS
		8170714	DFAP-50-H-15-L-B-S1-CS
		8170715	DFAP-50-H-15-C-B-S1-CS
		8170716	DFAP-50-H-15-R-B-S1-CS
		8170717	DFAP-50-H-45-L-B-S1-CS
		8170718	DFAP-50-H-45-C-B-S1-CS
		8170719	DFAP-50-H-45-R-B-S1-CS
		8170720	DFAP-50-V-15-L-B-S1-CS
		8170721	DFAP-50-V-15-C-B-S1-CS
		8170722	DFAP-50-V-15-R-B-S1-CS
		8170723	DFAP-50-V-45-L-B-S1-CS
		8170724	DFAP-50-V-45-C-B-S1-CS
		8170725	DFAP-50-V-45-R-B-S1-CS
		8170726	DFAP-50-N-S1-CS
		8170727	DFAP-50-H-15-L-S-S2-CS
		8170728	DFAP-50-H-15-C-S-S2-CS
		8170729	DFAP-50-H-15-R-S-S2-CS
		8170730	DFAP-50-H-45-L-S-S2-CS
		8170731	DFAP-50-H-45-C-S-S2-CS
		8170732	DFAP-50-H-45-R-S-S2-CS
		8170733	DFAP-50-V-15-L-S-S2-CS
		8170734	DFAP-50-V-15-C-S-S2-CS
		8170735	DFAP-50-V-15-R-S-S2-CS
		8170736	DFAP-50-V-45-L-S-S2-CS
		8170737	DFAP-50-V-45-C-S-S2-CS
		8170738	DFAP-50-V-45-R-S-S2-CS
		8170739	DFAP-50-H-15-L-B-S2-CS
		8170740	DFAP-50-H-15-C-B-S2-CS
		8170741	DFAP-50-H-15-R-B-S2-CS
		8170742	DFAP-50-H-45-L-B-S2-CS
		8170743	DFAP-50-H-45-C-B-S2-CS
		8170744	DFAP-50-H-45-R-B-S2-CS
		8170745	DFAP-50-V-15-L-B-S2-CS
		8170746	DFAP-50-V-15-C-B-S2-CS
		8170747	DFAP-50-V-15-R-B-S2-CS
		8170748	DFAP-50-V-45-L-B-S2-CS
		8170749	DFAP-50-V-45-C-B-S2-CS
		8170750	DFAP-50-V-45-R-B-S2-CS
		8170751	DFAP-50-N-S2-CS

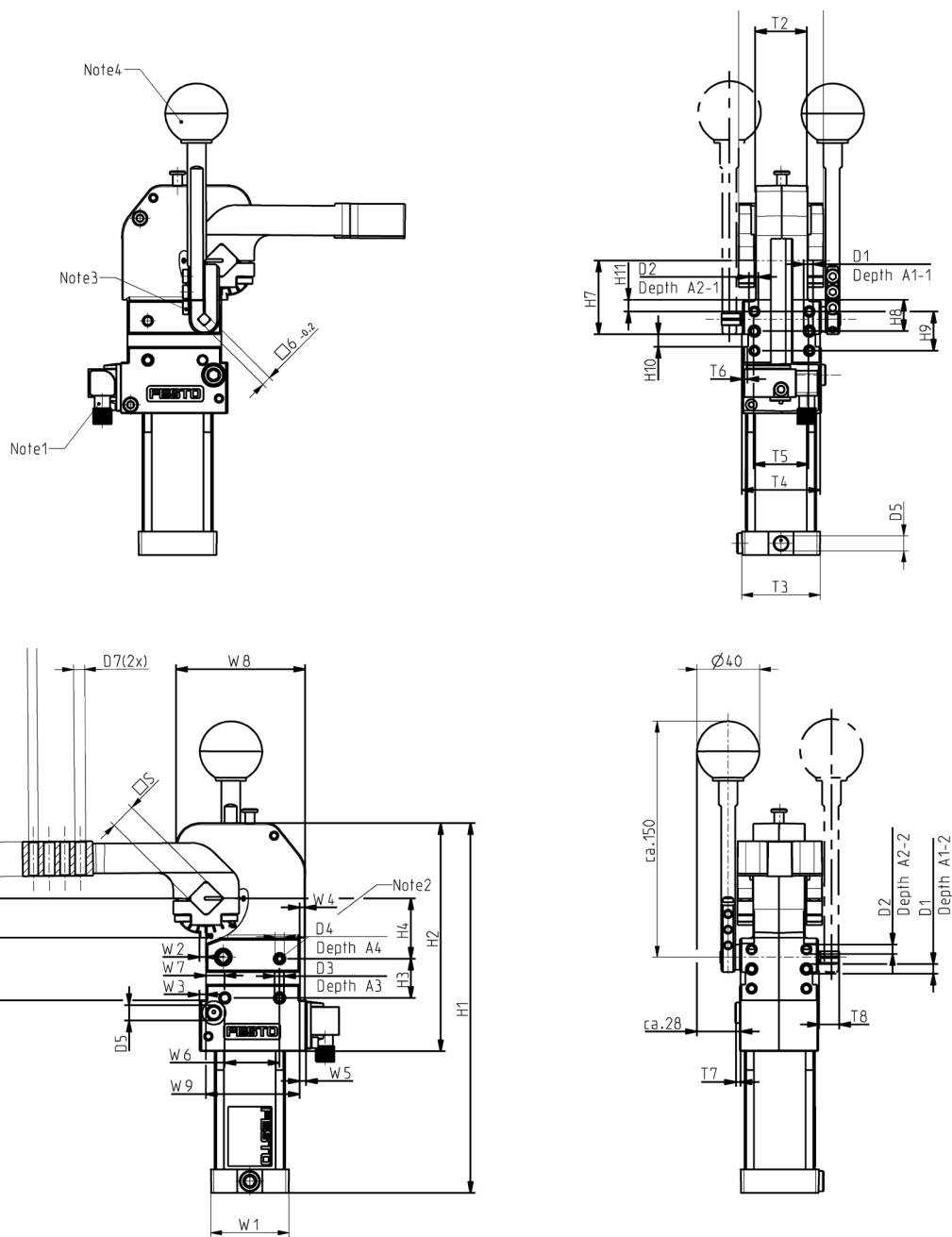
Technical Data

Ordering data		Part No.	Type
Type	Size		
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		8170754	DFAP-63-H-15-R-S-S1-CS
		8170755	DFAP-63-H-45-L-S-S1-CS
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		8170757	DFAP-63-H-45-R-S-S1-CS
		8170758	DFAP-63-V-15-L-S-S1-CS
		8170759	DFAP-63-V-15-C-S-S1-CS
		8170760	DFAP-63-V-15-R-S-S1-CS
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		8170770	DFAP-63-V-15-L-B-S1-CS
		8170771	DFAP-63-V-15-C-B-S1-CS
		8170772	DFAP-63-V-15-R-B-S1-CS
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		8170780	DFAP-63-H-45-L-S-S2-CS
		8170781	DFAP-63-H-45-C-S-S2-CS
		8170782	DFAP-63-H-45-R-S-S2-CS
		8170783	DFAP-63-V-15-L-S-S2-CS
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		8170787	DFAP-63-V-45-C-S-S2-CS
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		8170792	DFAP-63-H-45-L-B-S2-CS
		8170793	DFAP-63-H-45-C-B-S2-CS
		8170794	DFAP-63-H-45-R-B-S2-CS
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		8170797	DFAP-63-V-15-R-B-S2-CS
		8170798	DFAP-63-V-45-L-B-S2-CS
		8170799	DFAP-63-V-45-C-B-S2-CS
		8170800	DFAP-63-V-45-R-B-S2-CS
		8170801	DFAP-63-N-S2-CS

Technical Data

Dimensions - Sizes 40, with handle

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Type	Clamp torque at 0.5 MPa	H1	H2	H3*	H4 ±0.05	H5 +0.1	H6 ±0.05	H7 ±0.05	H8 ±0.05	H9 ±0.1	H10 N9	H11 ±0.1	H12 ±0.1	T1
DFAP-40-...-M-...-CS	Min. 120 Nm	235.5	145.5	25	38.5	40	25	47	20	25	8	7.5	22	54

Type	T2	T3	T4	T5*	T6	T7	T8	W1	W2	W3	W4	W5	W6 ±0.1	W7 ±0.05	W8
DFAP-40-...-M-...-CS	33	50	50	35	3.5	3	13	50	4	4	3.3	4	35	12	82.5

Type	W9 ±0.1	D1 H7	D2	D3 H7	D4	D5	D6 H7	D7	A1-1	A1-2	A2-1	A2-2	A3	A4	S h9
DFAP-40-...-M-...-CS	60	6	M6	6	M6	G1/8	6	7	10	8	10	6	10	10	16

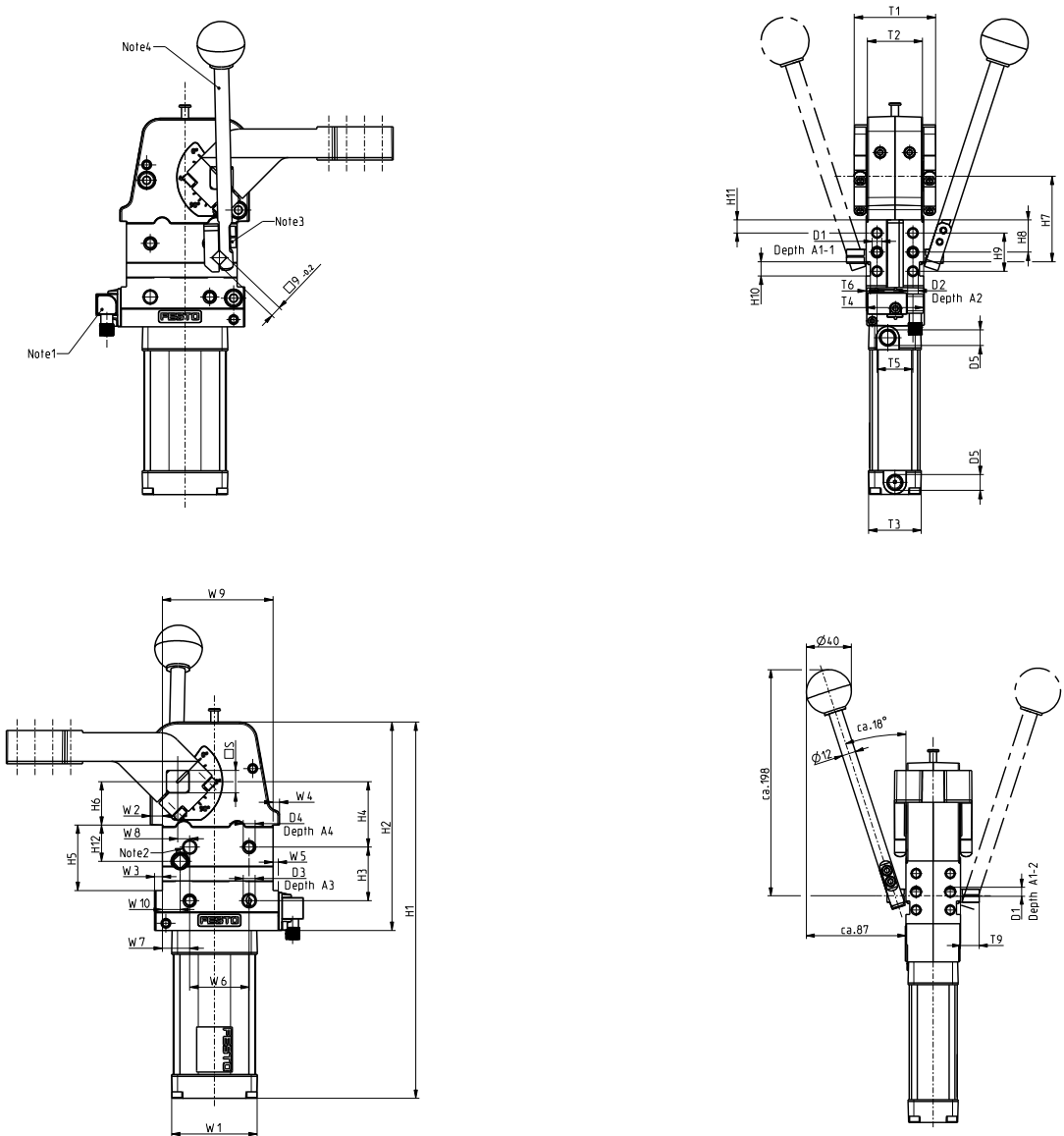
Technical Data

Ordering data			
Type	Size	Part No.	Type
DFAP	40	8155659	DFAP-40-H-15-L-S-M-S1-CS
		8155660	DFAP-40-H-15-C-S-M-S1-CS
		8155661	DFAP-40-H-15-R-S-M-S1-CS
		8155662	DFAP-40-H-45-L-S-M-S1-CS
		8155663	DFAP-40-H-45-C-S-M-S1-CS
		8155664	DFAP-40-H-45-R-S-M-S1-CS
		8155665	DFAP-40-V-15-L-S-M-S1-CS
		8155666	DFAP-40-V-15-C-S-M-S1-CS
		8155667	DFAP-40-V-15-R-S-M-S1-CS
		8155668	DFAP-40-V-45-L-S-M-S1-CS
		8155669	DFAP-40-V-45-C-S-M-S1-CS
		8155670	DFAP-40-V-45-R-S-M-S1-CS
		8155671	DFAP-40-N-M-S1-CS
		8155672	DFAP-40-H-15-L-S-M-S2-CS
		8155673	DFAP-40-H-15-C-S-M-S2-CS
		8155674	DFAP-40-H-15-R-S-M-S2-CS
		8155675	DFAP-40-H-45-L-S-M-S2-CS
		8155676	DFAP-40-H-45-C-S-M-S2-CS
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		8155683	DFAP-40-V-45-R-S-M-S2-CS
		8155684	DFAP-40-N-M-S2-CS

Technical Data

Dimensions - Sizes 50 and 63, with handle

Download CAD data → www.festo.com



Note
For the ordering information of sensors, please contact the Festo sales engineer.

Type	Clamp torque at 0.5 MPa	H1	H2	H3*	H4 ±0.05	H5 -0.1	H6 ±0.05	H7 ±0.05	H8 ±0.05	H9 ±0.1	H10 N9	H11 ±0.1	H12
DFAP-50-...-M-...-CS	Min. 200 Nm	316	175	45	55	55	36.5	71.5	27	32	12	11	30.5
DFAP-63-...-M-...-CS	Min. 200 Nm	330	180	45	55	55	36.5	71.5	27	32	12	11	27.5

Type	T1	T2	T3	T4	T5*	T6	T9	W1	W2	W3	W4	W5	W6*	W7 ±0.1
DFAP-50-...-M-...-CS	68	46	44	48	30	3.5	16.5	72	10	6.5	5.5	4.5	50	23
DFAP-63-...-M-...-CS	78	52	52	54	30	3.5	17.8	94	11.5	7.5	5.5	4.5	50	23

Type	W8 ±0.05	W9 ±0.1	W10	D1 H7	D2	D3 H7	D4	D5	A1-1	A1-2	A2	A3	A4	S h9
DFAP-50-...-M-...-CS	10	93	15	8	M8	10	M10	G1/4	10	7	11	12	12	19
DFAP-63-...-M-...-CS	10	93	15	8	M8	10	M10	G1/4	10	7	11	12	12	22

Technical Data

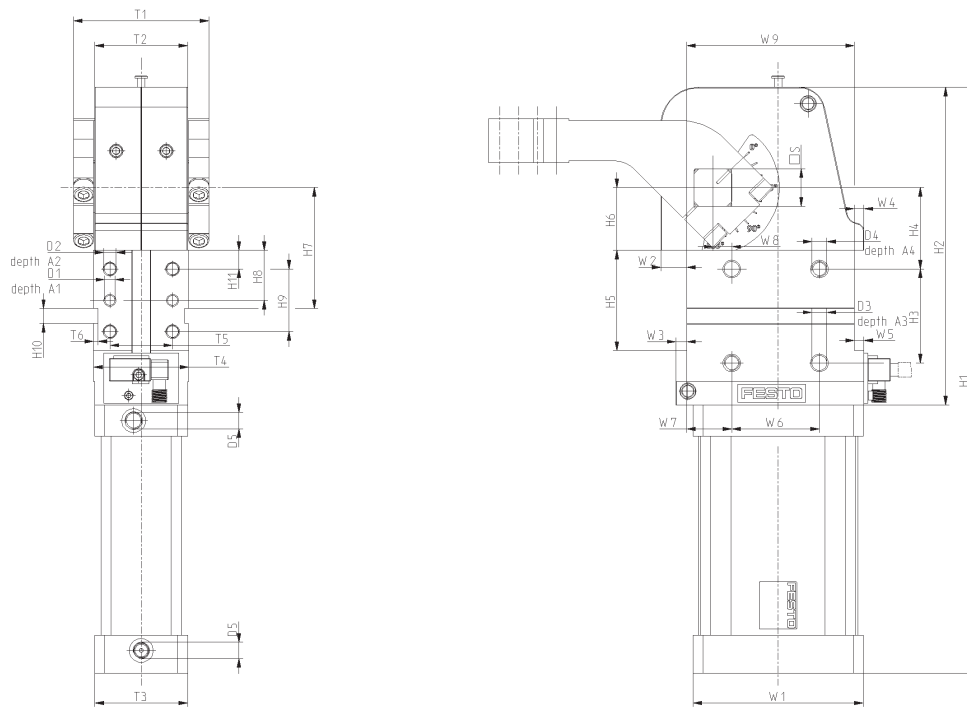
Ordering data		Part No.	Type
Type	Size		
DFAP	50	8149068	DFAP-50-H-15-L-S-M-S1-CS
		8149069	DFAP-50-H-15-C-S-M-S1-CS
		8149070	DFAP-50-H-15-R-S-M-S1-CS
		8149071	DFAP-50-H-45-L-S-M-S1-CS
		8149072	DFAP-50-H-45-C-S-M-S1-CS
		8149073	DFAP-50-H-45-R-S-M-S1-CS
		8149074	DFAP-50-V-15-L-S-M-S1-CS
		8149075	DFAP-50-V-15-C-S-M-S1-CS
		8149076	DFAP-50-V-15-R-S-M-S1-CS
		8149077	DFAP-50-V-45-L-S-M-S1-CS
		8149078	DFAP-50-V-45-C-S-M-S1-CS
		8149079	DFAP-50-V-45-R-S-M-S1-CS
		8149080	DFAP-50-H-15-L-B-M-S1-CS
		8149081	DFAP-50-H-15-C-B-M-S1-CS
		8149082	DFAP-50-H-15-R-B-M-S1-CS
		8149083	DFAP-50-H-45-L-B-M-S1-CS
		8149084	DFAP-50-H-45-C-B-M-S1-CS
		8149085	DFAP-50-H-45-R-B-M-S1-CS
		8149086	DFAP-50-V-15-L-B-M-S1-CS
		8149087	DFAP-50-V-15-C-B-M-S1-CS
		8149088	DFAP-50-V-15-R-B-M-S1-CS
		8149089	DFAP-50-V-45-L-B-M-S1-CS
		8149090	DFAP-50-V-45-C-B-M-S1-CS
		8149091	DFAP-50-V-45-R-B-M-S1-CS
		8149092	DFAP-50-N-M-S1-CS
		8149093	DFAP-50-H-15-L-S-M-S2-CS
		8149094	DFAP-50-H-15-C-S-M-S2-CS
		8149095	DFAP-50-H-15-R-S-M-S2-CS
		8149096	DFAP-50-H-45-L-S-M-S2-CS
		8149097	DFAP-50-H-45-C-S-M-S2-CS
		8149098	DFAP-50-H-45-R-S-M-S2-CS
		8149099	DFAP-50-V-15-L-S-M-S2-CS
		8149100	DFAP-50-V-15-C-S-M-S2-CS
		8149101	DFAP-50-V-15-R-S-M-S2-CS
		8149102	DFAP-50-V-45-L-S-M-S2-CS
		8149103	DFAP-50-V-45-C-S-M-S2-CS
		8149104	DFAP-50-V-45-R-S-M-S2-CS
		8149105	DFAP-50-H-15-L-B-M-S2-CS
		8149106	DFAP-50-H-15-C-B-M-S2-CS
		8149107	DFAP-50-H-15-R-B-M-S2-CS
		8149108	DFAP-50-H-45-L-B-M-S2-CS
		8149109	DFAP-50-H-45-C-B-M-S2-CS
		8149110	DFAP-50-H-45-R-B-M-S2-CS
		8149111	DFAP-50-V-15-L-B-M-S2-CS
		8149112	DFAP-50-V-15-C-B-M-S2-CS
		8149113	DFAP-50-V-15-R-B-M-S2-CS
		8149114	DFAP-50-V-45-L-B-M-S2-CS
		8149115	DFAP-50-V-45-C-B-M-S2-CS
		8149116	DFAP-50-V-45-R-B-M-S2-CS
		8149117	DFAP-50-N-M-S2-CS

Technical Data

Ordering data		Part No.	Type
Type	Size		
DFAP	63	8149118	DFAP-63-H-15-L-S-M-S1-CS
		8149119	DFAP-63-H-15-C-S-M-S1-CS
		8149120	DFAP-63-H-15-R-S-M-S1-CS
		8149121	DFAP-63-H-45-L-S-M-S1-CS
		8149122	DFAP-63-H-45-C-S-M-S1-CS
		8149123	DFAP-63-H-45-R-S-M-S1-CS
		8149124	DFAP-63-V-15-L-S-M-S1-CS
		8149125	DFAP-63-V-15-C-S-M-S1-CS
		8149126	DFAP-63-V-15-R-S-M-S1-CS
		8149127	DFAP-63-V-45-L-S-M-S1-CS
		8149128	DFAP-63-V-45-C-S-M-S1-CS
		8149129	DFAP-63-V-45-R-S-M-S1-CS
		8149130	DFAP-63-H-15-L-B-M-S1-CS
		8149131	DFAP-63-H-15-C-B-M-S1-CS
		8149132	DFAP-63-H-15-R-B-M-S1-CS
		8149133	DFAP-63-H-45-L-B-M-S1-CS
		8149134	DFAP-63-H-45-C-B-M-S1-CS
		8149135	DFAP-63-H-45-R-B-M-S1-CS
		8149136	DFAP-63-V-15-L-B-M-S1-CS
		8149137	DFAP-63-V-15-C-B-M-S1-CS
		8149138	DFAP-63-V-15-R-B-M-S1-CS
		8149139	DFAP-63-V-45-L-B-M-S1-CS
		8149140	DFAP-63-V-45-C-B-M-S1-CS
		8149141	DFAP-63-V-45-R-B-M-S1-CS
		8149142	DFAP-63-N-M-S1-CS
		8149143	DFAP-63-H-15-L-S-M-S2-CS
		8149144	DFAP-63-H-15-C-S-M-S2-CS
		8149145	DFAP-63-H-15-R-S-M-S2-CS
		8149146	DFAP-63-H-45-L-S-M-S2-CS
		8149147	DFAP-63-H-45-C-S-M-S2-CS
		8149148	DFAP-63-H-45-R-S-M-S2-CS
		8149149	DFAP-63-V-15-L-S-M-S2-CS
		8149150	DFAP-63-V-15-C-S-M-S2-CS
		8149151	DFAP-63-V-15-R-S-M-S2-CS
		8149152	DFAP-63-V-45-L-S-M-S2-CS
		8149153	DFAP-63-V-45-C-S-M-S2-CS
		8149154	DFAP-63-V-45-R-S-M-S2-CS
		8149155	DFAP-63-H-15-L-B-M-S2-CS
		8149156	DFAP-63-H-15-C-B-M-S2-CS
		8149157	DFAP-63-H-15-R-B-M-S2-CS
		8149158	DFAP-63-H-45-L-B-M-S2-CS
		8149159	DFAP-63-H-45-C-B-M-S2-CS
		8149160	DFAP-63-H-45-R-B-M-S2-CS
		8149161	DFAP-63-V-15-L-B-M-S2-CS
		8149162	DFAP-63-V-15-C-B-M-S2-CS
		8149163	DFAP-63-V-15-R-B-M-S2-CS
		8149164	DFAP-63-V-45-L-B-M-S2-CS
		8149165	DFAP-63-V-45-C-B-M-S2-CS
		8149166	DFAP-63-V-45-R-B-M-S2-CS
		8149167	DFAP-63-N-M-S2-CS

Technical Data

Dimensions - Size 80

Download CAD data → www.festo.com**Note**

For the ordering information of sensors, please contact the Festo sales engineer.

Type	Clamp torque at 0.5 MPa	H1	H2	H3*	H4 ±0.05	H5 +0.1	H6 ±0.05	H7 ±0.05	H8 ±0.05	H9 ±0.1	H10 N9
DFAP-80-...-CS	800 Nm	467.5	253.5	75	65	80	50	96.5	40	50	12

Type	H11 ±0.1	T1	T2	T3	T4	T5*	T6	W1	W2	W3	W4	W5	W6*
DFAP-80-...-CS	15	108	74	74	76	50	3.5	136	20.5	8.5	7.5	7.5	70

Type	W7 ±0.1	W8 ±0.05	W9 ±0.1	D1 H7	D2	D3 H7	D4	D5	A1	A2	A3	A4	S h9
DFAP-80-...-CS	36	15	134	8	M10	12	M12	G1/4	12	15	15	16	30

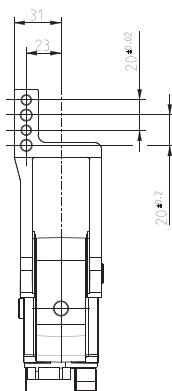
Technical Data

Ordering data		Part No.	Type
Type	Size		
DFAP	80	8166664	DFAP-80-H-20-L-S-S1-CS
		8166665	DFAP-80-H-20-C-S-S1-CS
		8166666	DFAP-80-H-20-R-S-S1-CS
		8166667	DFAP-80-H-45-L-S-S1-CS
		8166668	DFAP-80-H-45-C-S-S1-CS
		8166669	DFAP-80-H-45-R-S-S1-CS
		8166670	DFAP-80-V-20-L-S-S1-CS
		8166671	DFAP-80-V-20-C-S-S1-CS
		8166672	DFAP-80-V-20-R-S-S1-CS
		8166673	DFAP-80-V-45-L-S-S1-CS
		8166674	DFAP-80-V-45-C-S-S1-CS
		8166675	DFAP-80-V-45-R-S-S1-CS
		8166676	DFAP-80-H-20-L-B-S1-CS
		8166677	DFAP-80-H-20-C-B-S1-CS
		8166678	DFAP-80-H-20-R-B-S1-CS
		8166679	DFAP-80-H-45-L-B-S1-CS
		8166680	DFAP-80-H-45-C-B-S1-CS
		8166681	DFAP-80-H-45-R-B-S1-CS
		8166682	DFAP-80-V-20-L-B-S1-CS
		8166683	DFAP-80-V-20-C-B-S1-CS
		8166684	DFAP-80-V-20-R-B-S1-CS
		8166685	DFAP-80-V-45-L-B-S1-CS
		8166686	DFAP-80-V-45-C-B-S1-CS
		8166687	DFAP-80-V-45-R-B-S1-CS
		8166688	DFAP-80-N-S1-CS
		8166689	DFAP-80-H-20-L-S-S2-CS
		8166690	DFAP-80-H-20-C-S-S2-CS
		8166691	DFAP-80-H-20-R-S-S2-CS
		8166692	DFAP-80-H-45-L-S-S2-CS
		8166693	DFAP-80-H-45-C-S-S2-CS
		8166694	DFAP-80-H-45-R-S-S2-CS
		8166695	DFAP-80-V-20-L-S-S2-CS
		8166696	DFAP-80-V-20-C-S-S2-CS
		8166697	DFAP-80-V-20-R-S-S2-CS
		8166698	DFAP-80-V-45-L-S-S2-CS
		8166699	DFAP-80-V-45-C-S-S2-CS
		8166700	DFAP-80-V-45-R-S-S2-CS
		8166701	DFAP-80-H-20-L-B-S2-CS
		8166702	DFAP-80-H-20-C-B-S2-CS
		8166703	DFAP-80-H-20-R-B-S2-CS
		8166704	DFAP-80-H-45-L-B-S2-CS
		8166705	DFAP-80-H-45-C-B-S2-CS
		8166706	DFAP-80-H-45-R-B-S2-CS
		8166707	DFAP-80-V-20-L-B-S2-CS
		8166708	DFAP-80-V-20-C-B-S2-CS
		8166709	DFAP-80-V-20-R-B-S2-CS
		8166710	DFAP-80-V-45-L-B-S2-CS
		8166711	DFAP-80-V-45-C-B-S2-CS
		8166712	DFAP-80-V-45-R-B-S2-CS
		8166713	DFAP-80-N-S2-CS

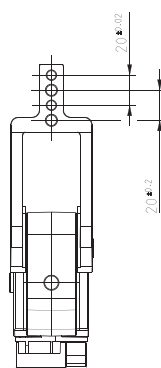
Based on the position of the clamp arm (Sensor-facing side view), size 40

- L- Clamp arm on the left
- C- Clamp arm in the centre
- R- Clamp arm on the right

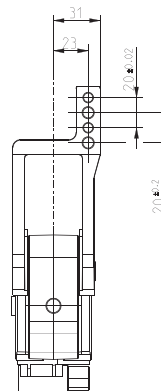
Variant DFAP-40-...-V-...-L-...-CS
(Clamp arm on the left)



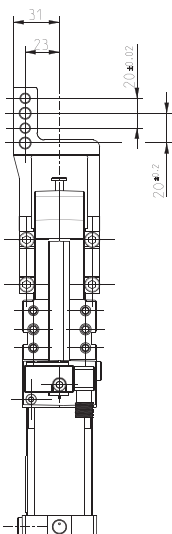
Variant DFAP-40-...-H-...-C-...-CS
(Clamp arm in the centre)



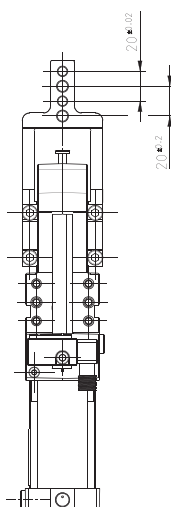
Variant DFAP-40-...-H-...-R-...-CS
(Clamp arm on the right)



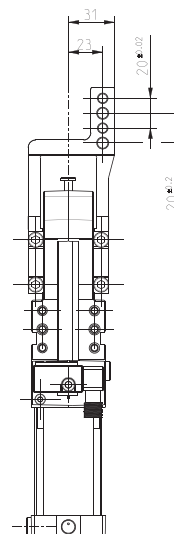
Variant DFAP-40-...-V-...-L-...-CS
(Clamp arm on the left)



Variant DFAP-40-...-V-...-C-...-CS
(Clamp arm in the centre)



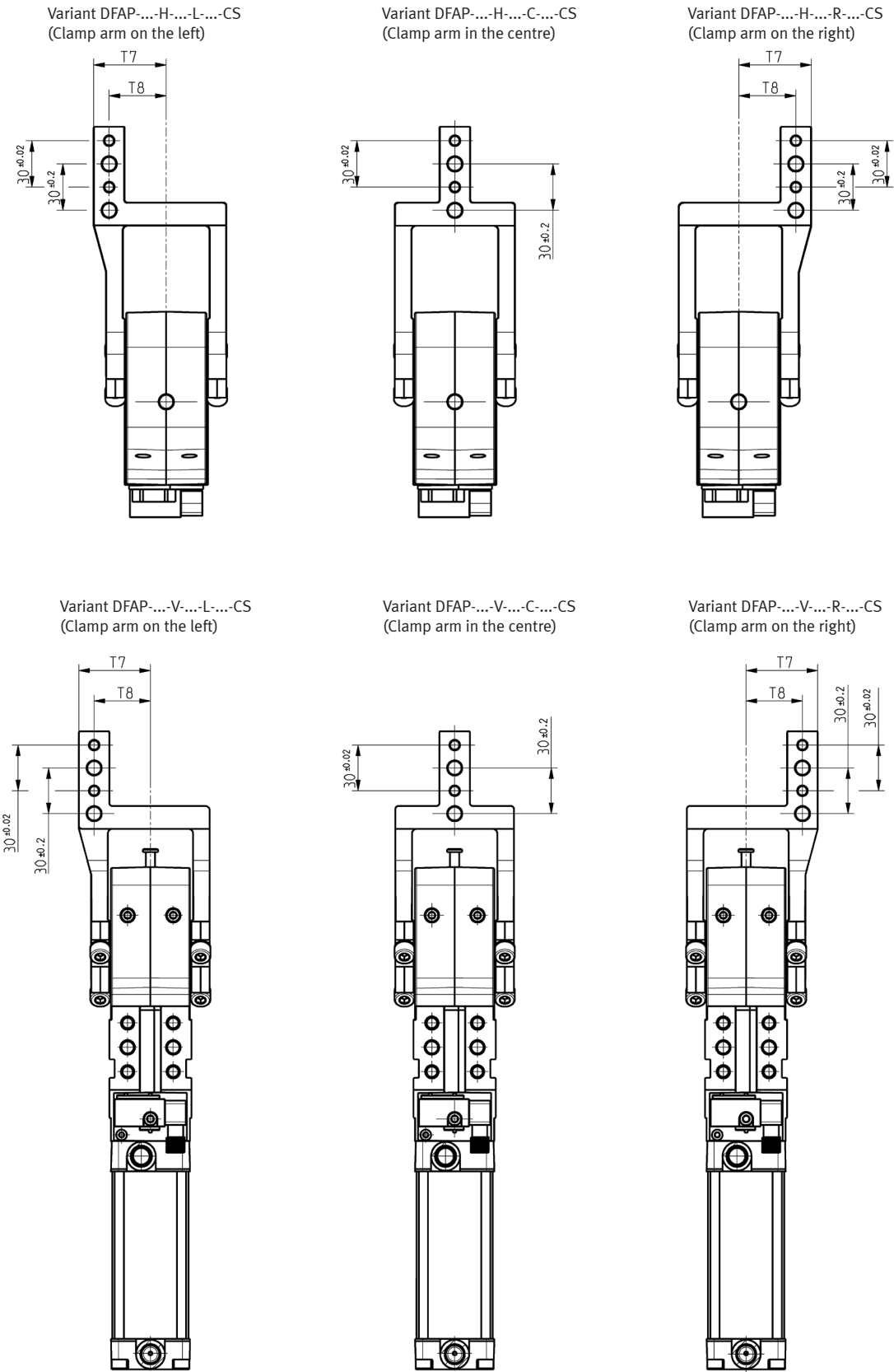
Variant DFAP-40-...-V-...-R-...-CS
(Clamp arm on the right)



Based on the position of the clamp arm (Sensor-facing side view), sizes 50, 63, and 80

- L- Clamp arm on the left
- C- Clamp arm in the centre
- R- Clamp arm on the right

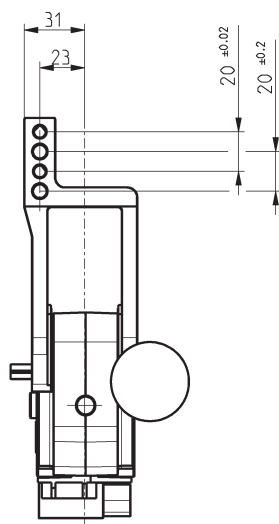
Type	T7	T8
DFAP-50-...-CS	44	34
DFAP-63-...-CS	47	37
DFAP-80-...-CS	63	50.5



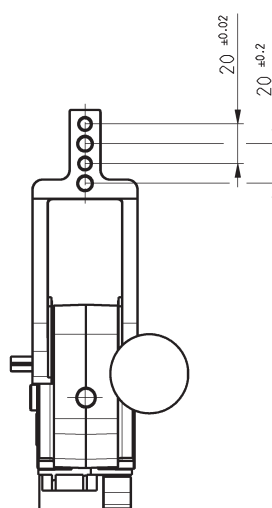
Based on the position of the clamp arm (Sensor-facing side view), sizes 40, with handle

- L- Clamp arm on the left
- C- Clamp arm on the centre
- R- Clamp arm on the right

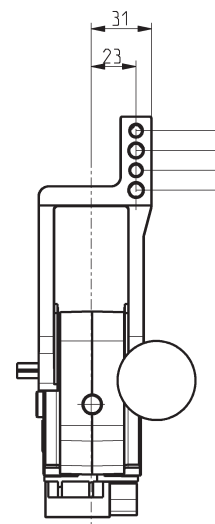
Version DFAP-40-H-...-L-...-CS
(Clamp arm on the left)



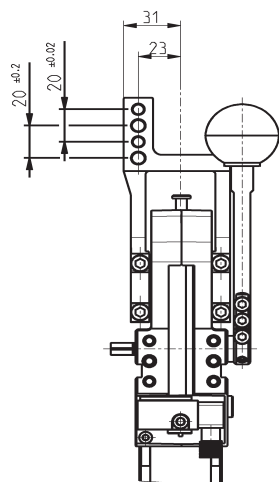
Version DFAP-40-H-...-C-...-CS
(Clamp arm on the centre)



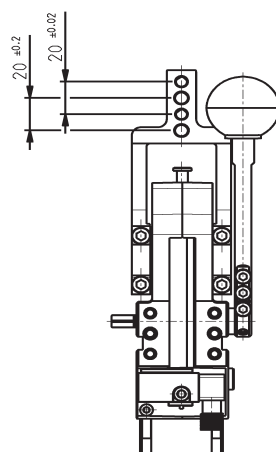
Version DFAP-40-H-...-R-...-CS
(Clamp arm on the right)



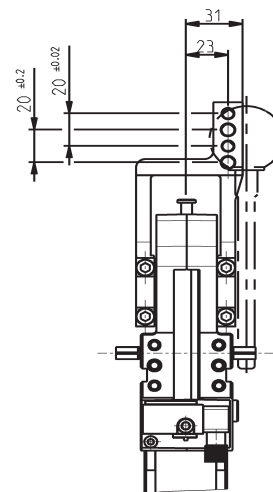
Version DFAP-40-V-...-L-...-CS
(Clamp arm on the left)



Version DFAP-40-V-...-C-...-CS
(Clamp arm on the centre)



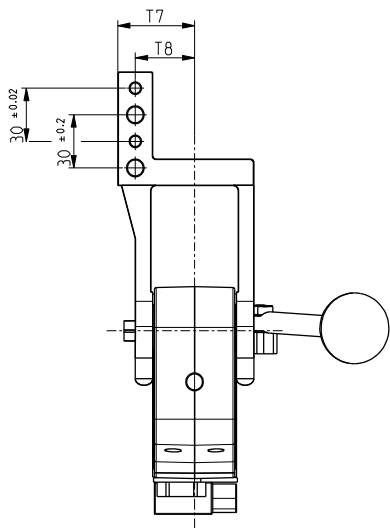
Version DFAP-40-V-...-R-...-CS
(Clamp arm on the right)



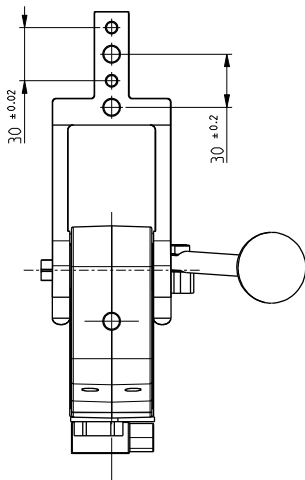
Based on the position of the clamp arm (Sensor-facing side view), sizes 50 and 63, with handle

- L- Clamp arm on the left
- C- Clamp arm in the centre
- R- Clamp arm on the right

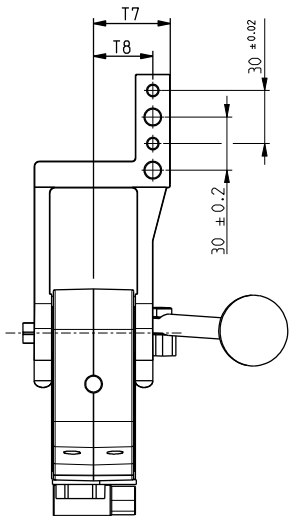
Variant DFAP-...-H-...-L-...-CS
(Clamp arm on the left)



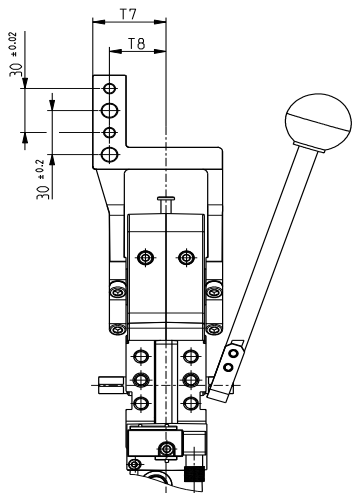
Variant DFAP-...-H-...-C-...-CS
(Clamp arm in the centre)



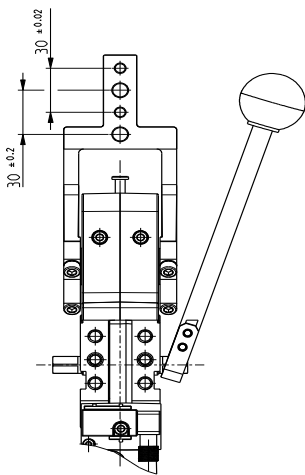
Variant DFAP-...-H-...-R-...-CS
(Clamp arm on the right)



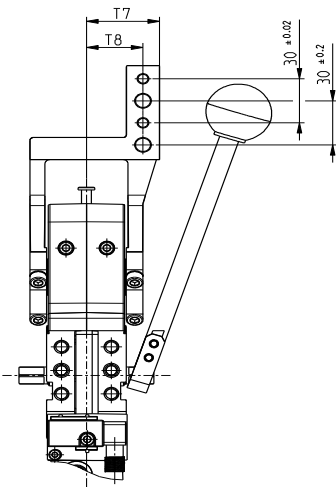
Variant DFAP-...-V-...-L-...-CS
(Clamp arm on the left)



Variant DFAP-...-V-...-C-...-CS
(Clamp arm in the centre)



Variant DFAP-...-V-...-R-...-CS
(Clamp arm on the right)



Type	T7	T8
DFAP-50-...-M-...-CS	44	34
DFAP-63-...-M-...-CS	47	37

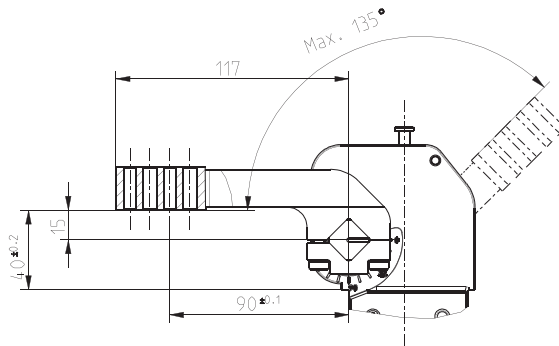
Clamp arm variants, size 40

Based on the assembly method of the clamp arm

Variant DFAP-40-H-15-...-CS
(Horizontally assembled clamp arm)

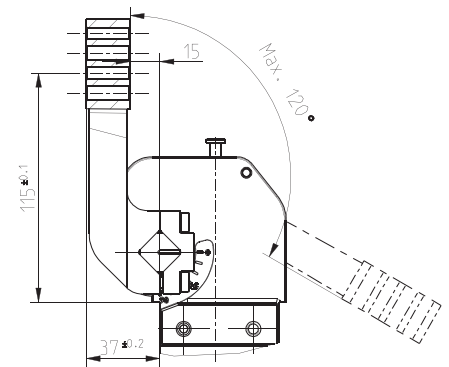
Maximum opening angle, stepless adjustable: 135°

- H- Horizontally assembled clamp arm
 - V- Vertically assembled clamp arm
 - N- No clamp arm
- Based on the height of the clamp arm
- 15- Clamp arm height of 15mm
 - 45- Clamp arm height of 45mm



Variant DFAP-40-V-15-...-CS
(Vertically assembled clamp arm)

Maximum opening angle, stepless adjustable: 120°

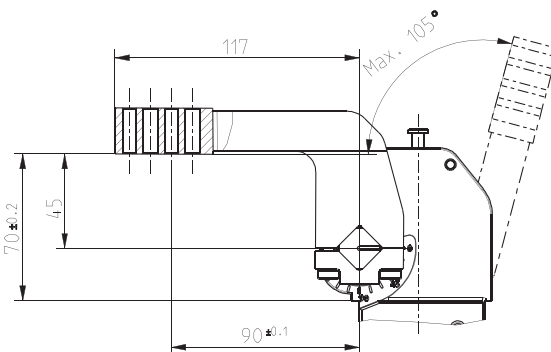


Based on the assembly method of the clamp arm

Variant DFAP-40-H-45-...-CS
(Horizontally assembled clamp arm)

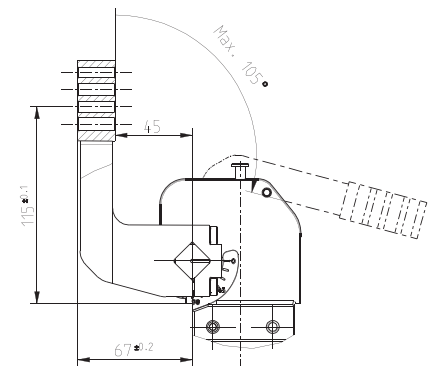
Maximum opening angle, stepless adjustable: 105°

- H- Horizontally assembled clamp arm
 - V- Vertically assembled clamp arm
 - N- No clamp arm
- Based on the height of the clamp arm
- 15- Clamp arm height of 15mm
 - 45- Clamp arm height of 45mm



Variant DFAP-40-V-45-...-CS
(Vertically assembled clamp arm)

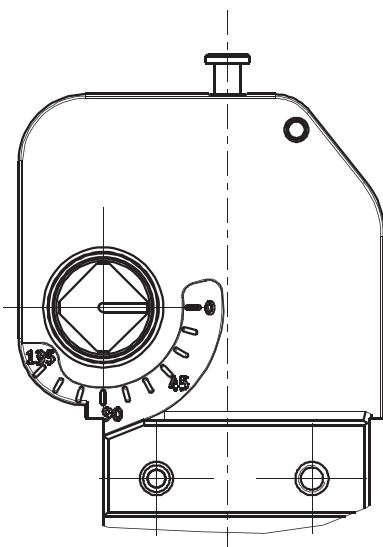
Maximum opening angle, stepless adjustable: 105°



Based on the assembly method of the clamp arm

Variant DFAP-40-N-...-CS
(without arm)

- H- Horizontally assembled clamp arm
- V- Vertically assembled clamp arm
- N- No clamp arm

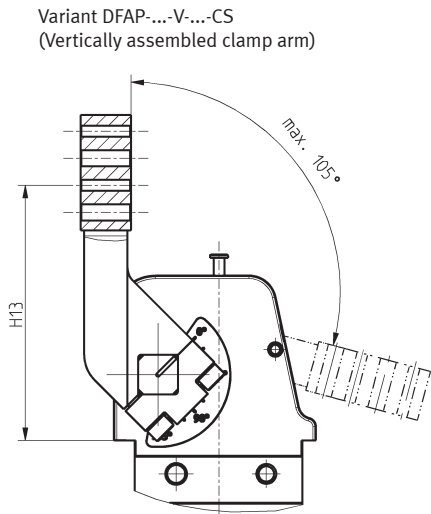
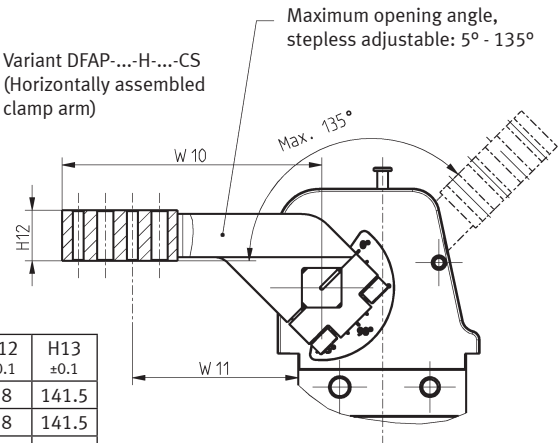


Clamp arm variants, sizes 50, 63, and 80

Based on the assembly method of the clamp arm

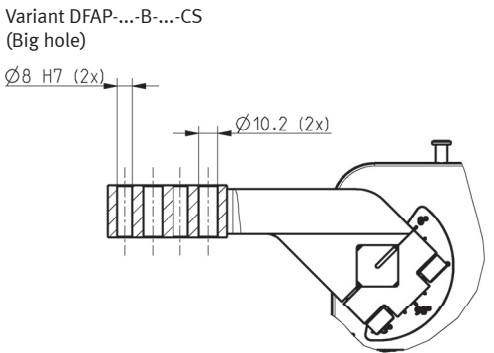
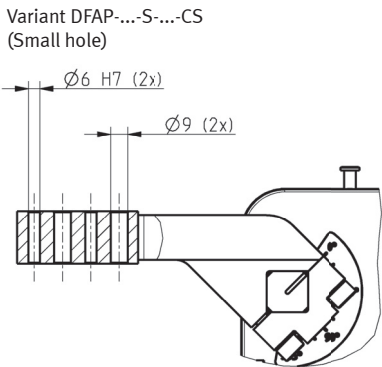
- H- Horizontally assembled clamp arm
- V- Vertically assembled clamp arm
- N- No clamp arm

Type	W10	W11 ±0.1	H12 ±0.1	H13 ±0.1
DFAP-50-...-CS	144	92	28	141.5
DFAP-63-...-CS	144	92	28	141.5
DFAP-80-...-CS	179	119	35	190



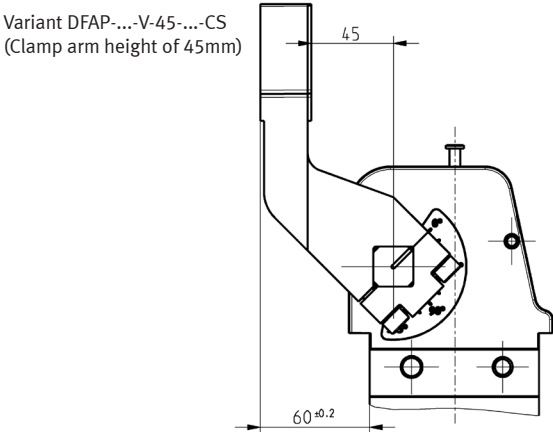
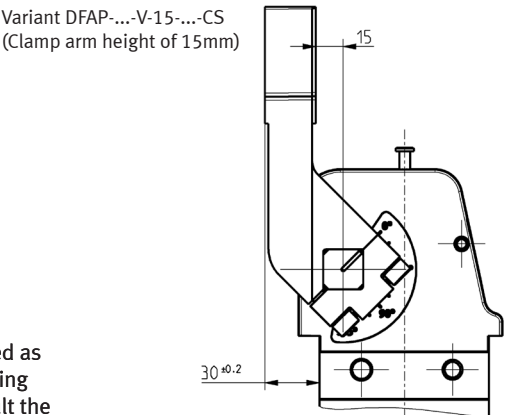
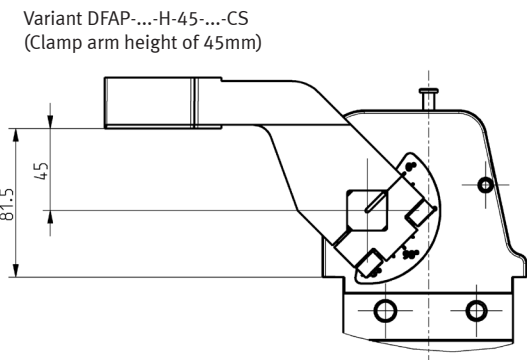
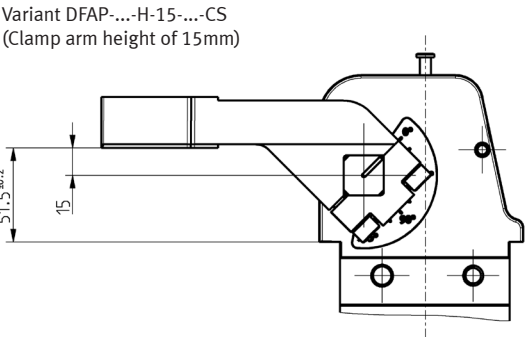
Based on the diameter of the hole on the clamp arm

- S- Small hole on the clamp arm
- B- Big hole on the clamp arm



Based on the height of the clamp arm

- 15- Clamp arm height of 15mm
- 45- Clamp arm height of 45mm



Note
Clamp arms can be ordered as accessories. For the ordering information, please consult the Festo sales engineer.

Clamp arm variants, sizes 40, with handle

Based on how Clamp arm assembled

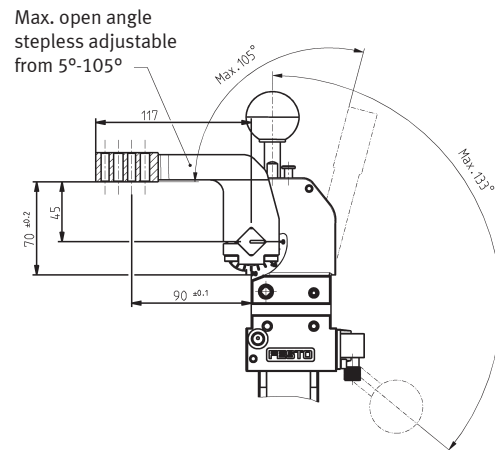
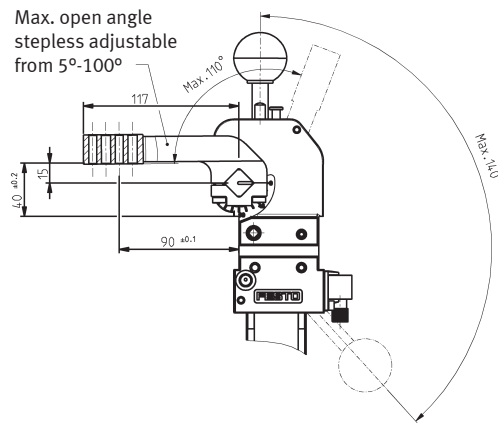
Version DFAP-40-H-15-...-M-...-CS
(Clamp arm horizontally assembled, and offset 15mm)

Version DFAP-40-H-45-...-M-...-CS
(Clamp arm horizontally assembled, and offset 45mm)

- H- Clamp arm horizontally assembled
- V- Clamp arm vertically assembled
- N- No clamp arm available

Based on offset of the Clamp arm

- 15- Clamp arm offset 15mm
- 45- Clamp arm offset 45mm

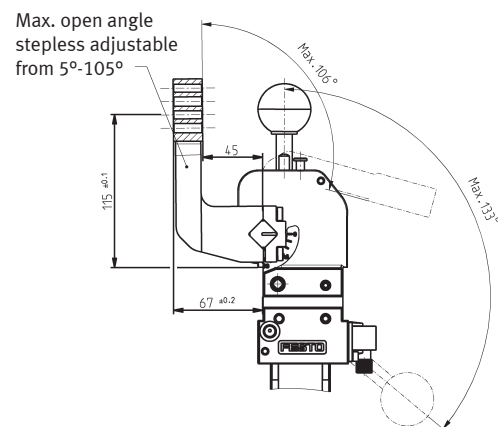
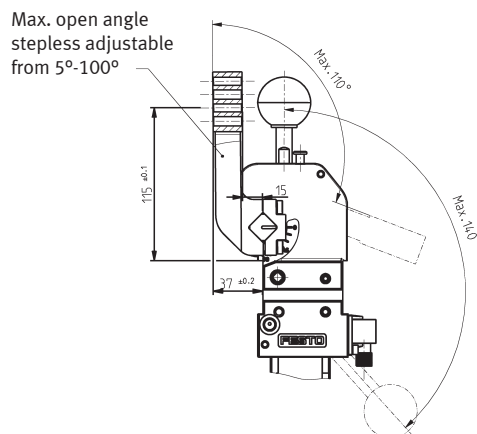


Based on offset of the Clamp arm

Version DFAP-40-V-15-...-M-...-CS
(Clamp arm vertically assembled, and offset 15mm)

Version DFAP-40-V-45-...-M-...-CS
(Clamp arm vertically assembled, and offset 45mm)

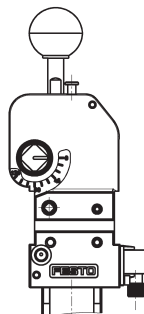
- 15- Clamp arm offset 15mm
- 45- Clamp arm offset 45mm



Based on offset of the Clamp arm

Version DFAP-40-N-...-M-...-CS
(No Clamp arm assembled)

- 15- Clamp arm offset 15mm
- 45- Clamp arm offset 45mm



Note

Clamp arms can be ordered as accessories. For the ordering information, please consult the Festo sales engineer.

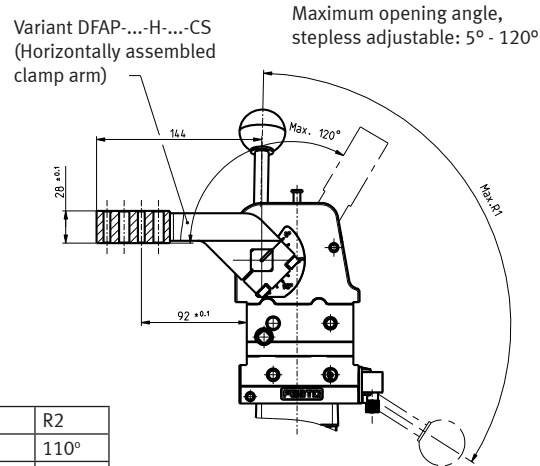
Clamp arm variants, sizes 50 and 63, with handle

Based on the assembly method of the clamp arm

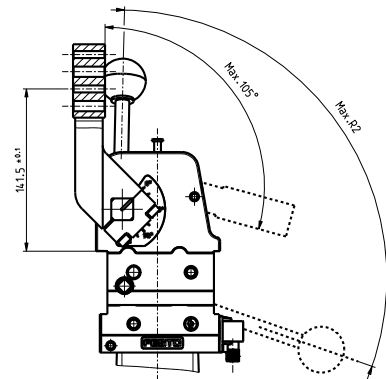
- H- Horizontally assembled clamp arm
- V- Vertically assembled clamp arm
- N- No clamp arm

Type	R1	R2
DFAP-50-...-M-...-CS	125°	110°
DFAP-63-...-M-...-CS	130°	115°

Variant DFAP-...-H-...-CS
(Horizontally assembled clamp arm)



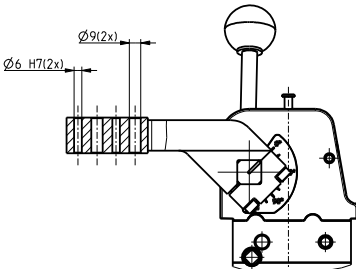
Variant DFAP-...-V-...-CS
(Vertically assembled clamp arm)



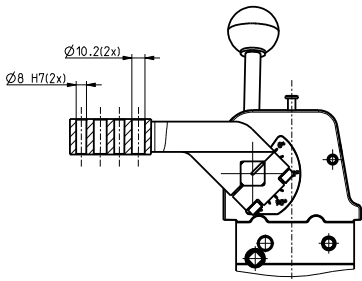
Based on the diameter of the hole on the clamp arm

- S- Small hole on the clamp arm
- B- Big hole on the clamp arm

Variant DFAP-...-S-...-CS
(Small hole)



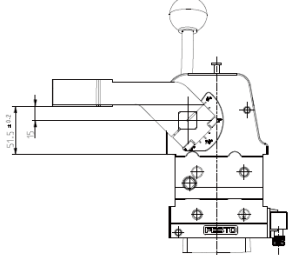
Variant DFAP-...-B-...-CS
(Big hole)



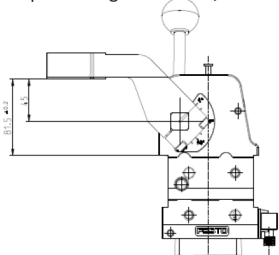
Based on the height of the clamp arm

- 15- Clamp arm height of 15mm
- 45- Clamp arm height of 45mm

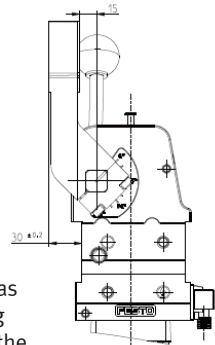
Variant DFAP-...-H-15-...-CS
(Clamp arm height of 15mm)



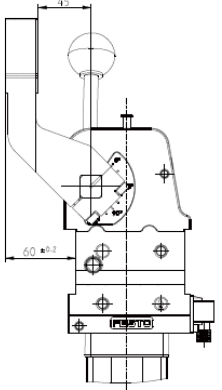
Variant DFAP-...-H-45-...-CS
(Clamp arm height of 45mm)



Variant DFAP-...-V-15-...-CS
(Clamp arm height of 15mm)



Variant DFAP-...-V-45-...-CS
(Clamp arm height of 45mm)



Note
Clamp arms can be ordered as accessories. For the ordering information, please consult the Festo sales engineer.