

Radial gripper DHRC

FESTO



Characteristics

At a glance Link [dhrc](#)

- Lateral gripper jaw support for high torque loads
- Gripper jaw centering options
- Max. repetition accuracy
- Proximity switch for sensing the piston position in the end positions and position transmitter for sensing the piston position at any point
- Wide range of adaptation options on the actuators
- Flexible application options: can be used as a double-acting and single-acting gripper

These grippers are not designed for the following or similar application examples:

- Machining
- Aggressive media
- Grinding dust
- Welding spatter

Engineering Tools Link [engineering tools](#)



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Gripper selection:

- This tool helps you find the right grippers by simply entering the exact parameters for your application

Diagrams Link [dhrc](#)



The diagrams shown in this document are also available online. There, it is possible to display precise values.

Position sensing

[A] For proximity sensor

With the help of proximity switches, position detection allows for any position to be sensed.

Gripper function

[] Double-acting

Opening or closing by application of compressed air

[S] Single-acting, open

Open when depressurized. Closed when pressurized with compressed air

Gripping force backup

[NO] Opening

Opened by spring force in depressurized state

Type code

001	Series	
DHRC	Radial gripper	

002	Size [mm]	
6	6	
10	10	
16	16	
20	20	
25	25	
32	32	

003	Position sensing	
A	For proximity sensor	

004	Gripper function	
	Double-acting	
S	Single-acting, open	

005	Gripping force backup	
	Without	
NO	Opening	

Datasheet

General technical data						
Size	6	10	16	20	25	32
Structural design	Lateral connection direction Positively driven motion sequence					
Mode of operation	Double-acting	Double-acting Single-acting Open				
Gripper function	Radial					
Number of gripper jaws	2					
Max. opening angle	180 deg					
Pneumatic connection	M3			M5		
Pneumatic gripper repetition accuracy ¹⁾	≤0.1 mm					
Rotational symmetry	–	≤0.2 mm				
Max. interchangeability	≤0.2 mm					
Max. operating frequency of pneumatic gripper	≤3 Hz			≤2 Hz		
Position sensing	Via proximity switch					
Type of mounting	Alternatively: Direct mounting via through-hole Direct fastening via thread	Alternatively: Direct mounting via through-hole Direct fastening via thread With through-hole and dowel pin With internal thread and dowel pin				
Mounting position	Any					

1) Scattering of the end position under constant operating conditions with 100 consecutive strokes in the direction of movement of the gripper jaws

Operating and environmental conditions						
Size	6	10	16	20	25	32
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]					
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)					
Ambient temperature ¹⁾	-10 ... 60°C					
Corrosion resistance class (CRC) ²⁾	0 - No corrosion stress					

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 0 to Festo standard FN 940070

No corrosion stress. Applies to small, non-visually relevant standard parts, such as threaded pins, circlips, clamping sleeves, etc., which are usually only available on the market in phosphated or black oxide finish (oiled if necessary), as well as to ball bearings (for components < CRC3) and plain bearings.

Operating pressure DHRC-...						
Size	6	10	16	20	25	32
Operating pressure	0.25 ... 0.8 MPa		0.1 ... 0.8 MPa			
Operating pressure	36.25 ... 116 psi		14.5 ... 116 psi			
Operating pressure	2.5 ... 8 bar		1 ... 8 bar			

Operating pressure DHRC-...-NO						
Size	10	16	20	25	32	
Operating pressure	0.2 ... 0.8 MPa		0.15 ... 0.8 MPa			
Operating pressure	29 ... 116 psi		21.75 ... 116 psi			
Operating pressure	2 ... 8 bar		1.5 ... 8 bar			

Weights DHRC-...						
Size	6	10	16	20	25	32
Product weight	24.5 g	54 g	111 g	218.4 g	438.5 g	716.5 g

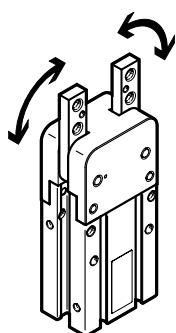
Weights DHRC-...-NO						
Size	10	16	20	25	32	
Product weight	59.5 g	112.5 g	220 g	440 g	720.5 g	

Datasheet

Materials

Size	6	10	16	20	25	32
Housing material	Wrought aluminum alloy, anodized					
Gripper jaw material	High-alloy steel					
Cover cap material	Wrought aluminum alloy, anodized					
Note on materials	RoHS compliant					
LABS (PWIS) conformity	VDMA24364-B2-L					
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)					

Total gripping torque



The gripping torque is not constant across the opening angle.

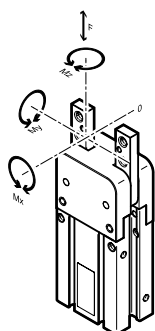
Total gripping torque DHRC-...

Size	6	10	16	20	25	32
Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening	6.7 Ncm	25.3 Ncm	81.1 Ncm	166.2 Ncm	343.6 Ncm	725.6 Ncm
Total gripping torque at 6 bar, closing	4.8 Ncm	20.4 Ncm	66.8 Ncm	134.3 Ncm	277.5 Ncm	600.1 Ncm

Total gripping torque DHRC-...-NO

Size	10	16	20	25	32
Total gripping torque at 6 bar, closing	15.8 Ncm	50.3 Ncm	112 Ncm	239.5 Ncm	539.1 Ncm

Load values at the gripper jaws

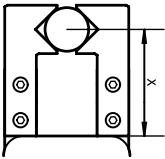


The indicated permissible forces and torques apply to a single gripper jaw. They include the lever arm, additional applied loads created by the workpiece or external gripper fingers and acceleration forces occurring during movement. The zero coordinate line (gripper jaw guide) must be taken into account when calculating torques.

Datasheet

Static load characteristics at the gripper jaws						
Size	6	10	16	20	25	32
Maximum force on gripper jaw F_z , static	12 N	35 N	60 N	100 N	140 N	210 N
Maximum torque on gripper jaw, M_x static	0.3 Nm	0.5 Nm	2 Nm	4 Nm	7 Nm	12 Nm
Maximum torque on gripper jaw, M_y static	0.3 Nm	0.5 Nm	1 Nm	2 Nm	4 Nm	8 Nm
Maximum torque on gripper jaw, M_z static	0.3 Nm	0.5 Nm	2 Nm	4 Nm	7 Nm	12 Nm

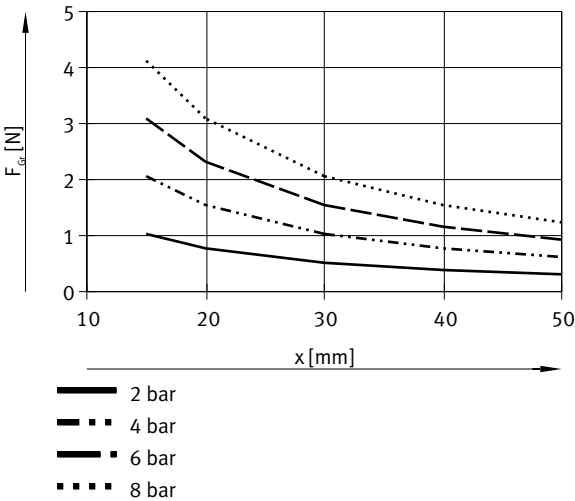
Gripping force F per gripper jaw as a function of operating pressure and lever arm x



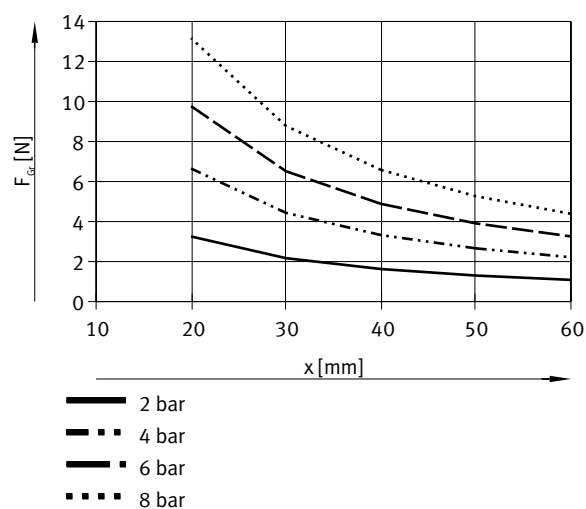
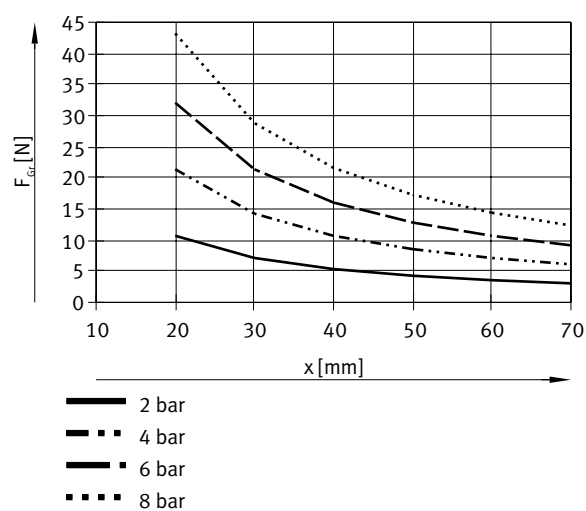
The gripping forces as a function of the operating pressure and of lever arm can be determined from the following diagrams.
The gripping torque is not constant across the opening angle.
The gripper jaws must not be positioned at an angle less than perpendicular to the housing; otherwise, this will result in a loss of gripping force.

Sizing software for gripper selection → <https://www.festo.com/x/topic/eng>

Gripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-6-A

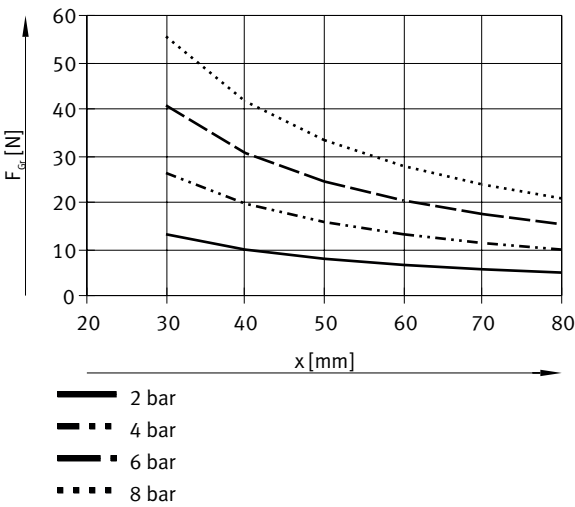


Datasheet

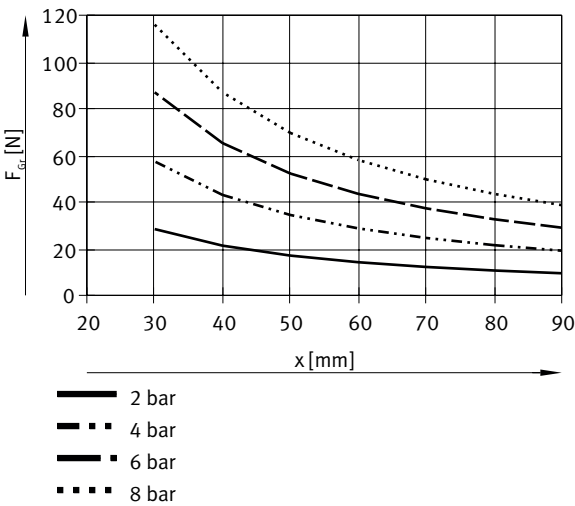
Gripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-10-AGripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-16-A

Datasheet

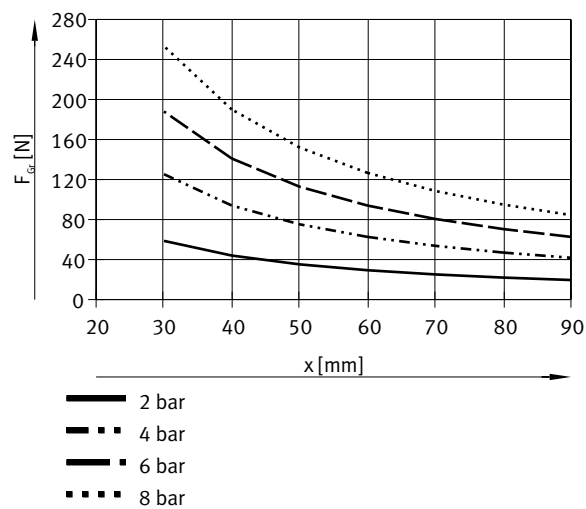
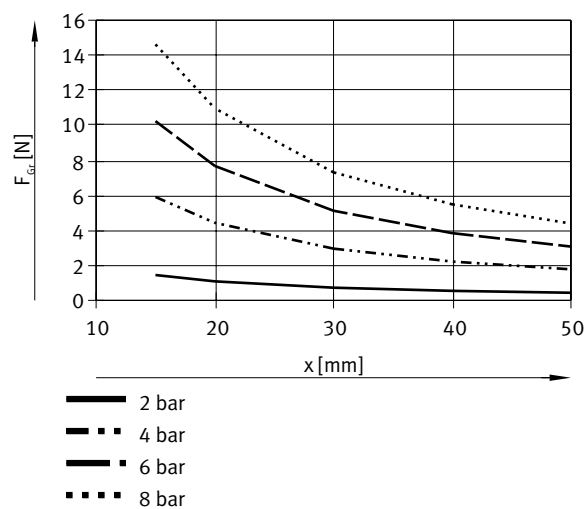
Gripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-20-A



Gripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-25-A

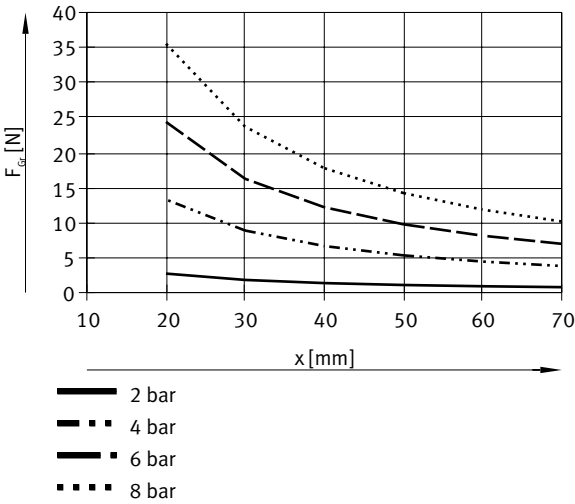


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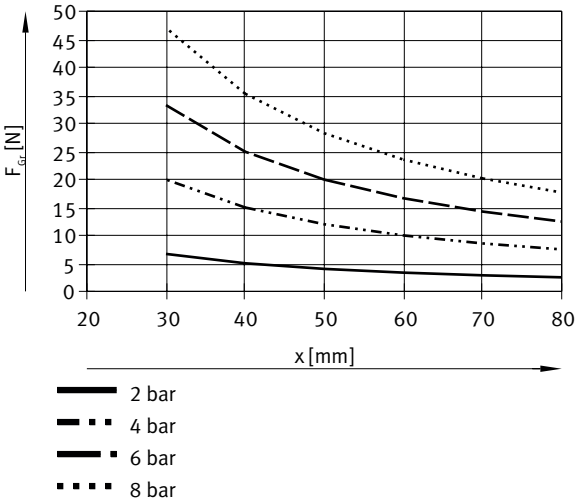
Gripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (closing), double-acting – DHRC-32-AGripping force F per gripper jaw as a function of operating pressure and lever arm x - External gripping (close), single-acting – DHRC-10-A-S-NO

Datasheet

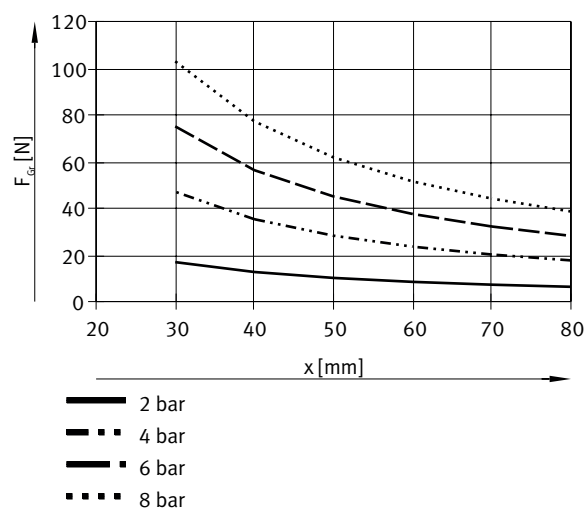
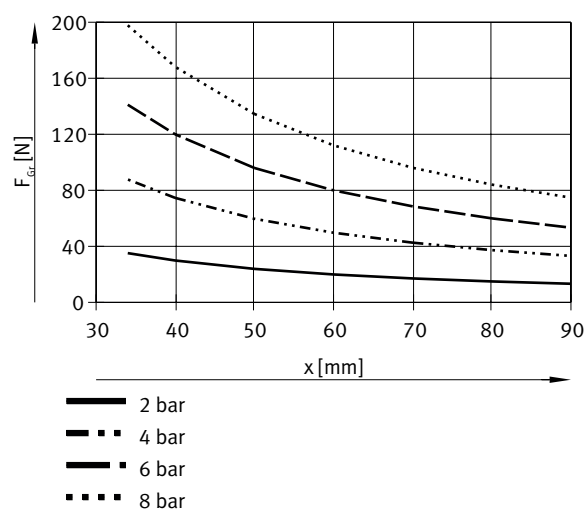
Gripping force F per gripper jaw as a function of operating pressure and lever arm x – External gripping (close), single-acting – DHRC-16-A-S-NO



Gripping force F per gripper jaw as a function of operating pressure and lever arm x – External gripping (close), single-acting – DHRC-20-A-S-NO

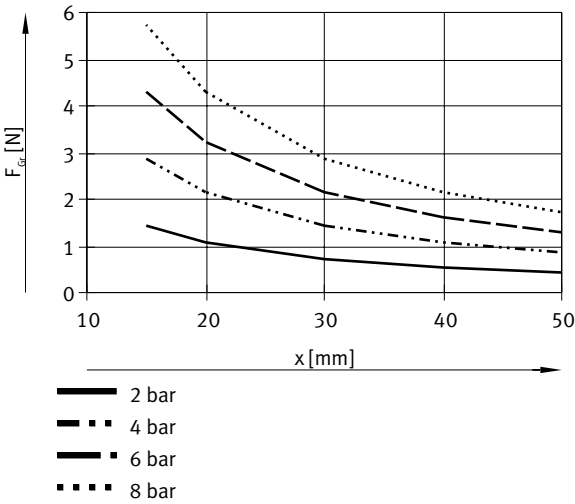


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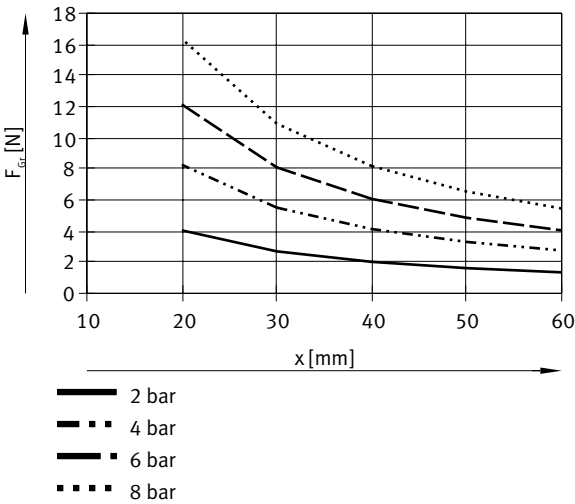
Gripping force F per gripper jaw as a function of operating pressure and lever arm x – External gripping (close), single-acting – DHRC-25-A-S-NOGripping force F per gripper jaw as a function of operating pressure and lever arm x – External gripping (close), single-acting – DHRC-32-A-S-NO

Datasheet

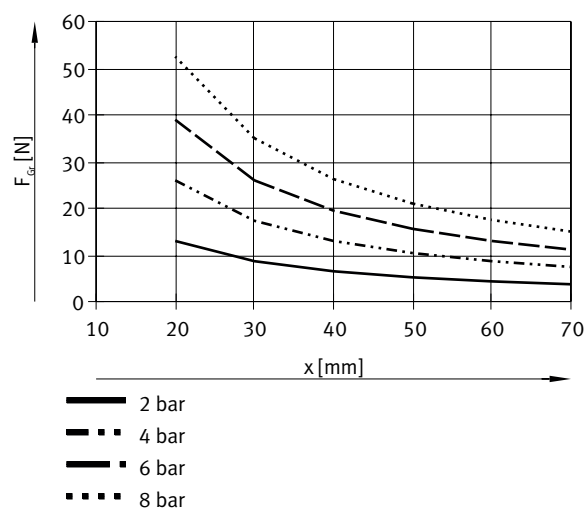
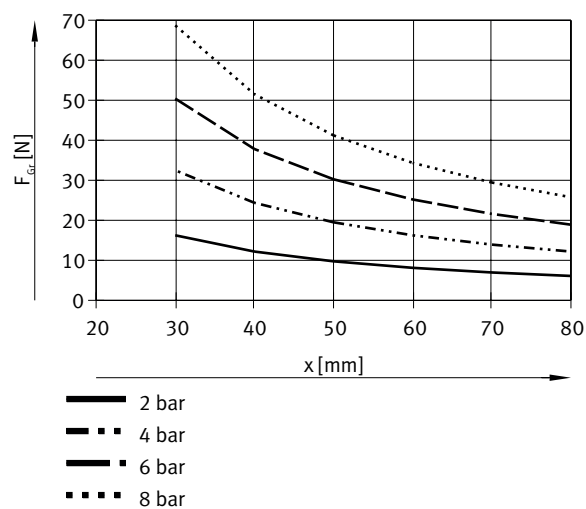
Gripping force F per gripper jaw as a function of operating pressure and lever arm x – Internal gripping (open), double-acting – DHRC-6-A



Gripping force F per gripper jaw as a function of operating pressure and lever arm x – Internal gripping (open), double-acting – DHRC-10-A

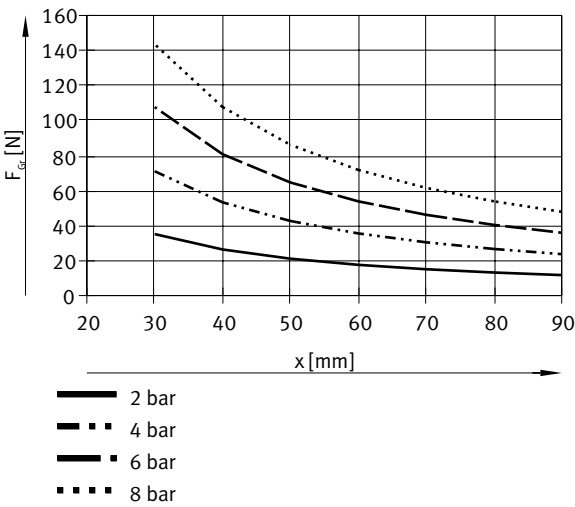


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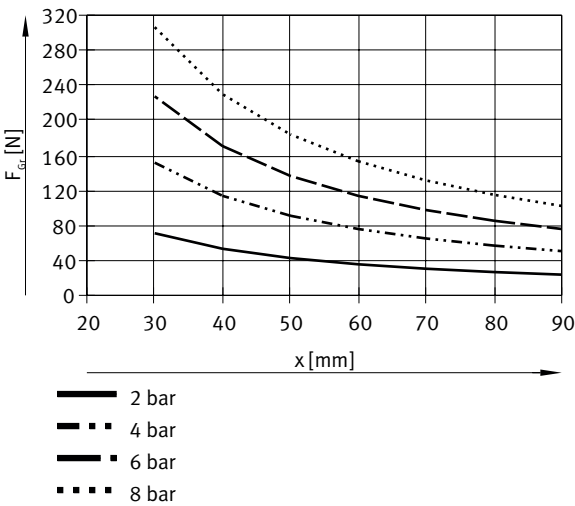
Gripping force F per gripper jaw as a function of operating pressure and lever arm x – Internal gripping (open), double-acting – DHRC-16-AGripping force F per gripper jaw as a function of operating pressure and lever arm x - Internal gripping (open), double-acting – DHRC-20-A

Datasheet

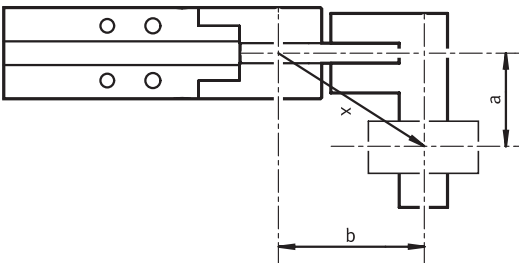
Gripping force F per gripper jaw as a function of operating pressure and lever arm x – Internal gripping (open), double-acting – DHRC-25-A



Gripping force F per gripper jaw as a function of operating pressure and lever arm x – Internal gripping (open), double-acting – DHRC-32-A



Gripping force F per gripper jaw at 0.6 MPa (6 bar, 87 psi) as a function of lever arm x and eccentricity a and b



Datasheet

Gripping force F per gripper jaw at 0.6 MPa (6 bar, 87 psi) as a function of lever arm x and eccentricity a and b

$$x = \sqrt{a^2 + b^2} = \sqrt{20^2 + 25^2} = 32 \text{ mm}$$

The formula (on the left) must be used to calculate the lever arm x with eccentric gripping.

The gripping force F can then be read from the graphs using the calculated value x.

Calculation example:

Where:

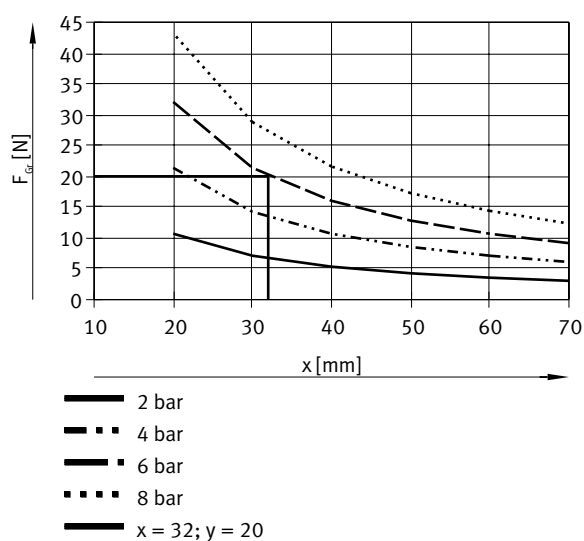
Distance a = 20 mm

Distance b = 25 mm

Required:

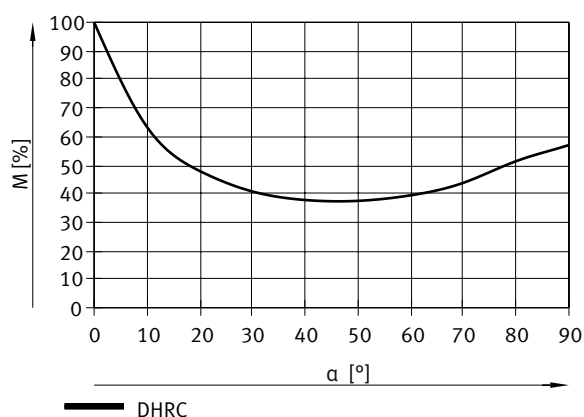
The gripping force at 6 bar, with a DHRC-16-A, used as an external gripper.

Gripping force F per gripper jaw at 0.6 MPa (6 bar, 87 psi) as a function of lever arm x and eccentricity a and b



The graph gives a value of F = 20 N for the gripping force.

Torque curve M as a function of opening angle

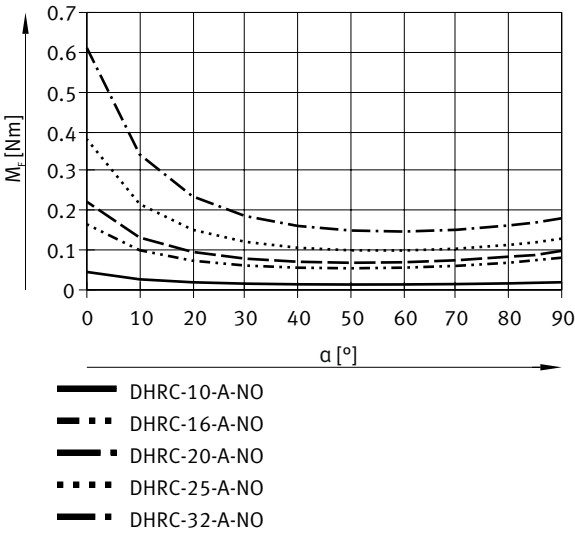


The drive principle of the gripper jaws means that the torque is not constant across the opening angle. The percentage available in each case can be calculated in the graph.

Opening angle of 0° means: parallel gripper jaw position.

Datasheet

Spring torque M as a function of the opening angle



Calculation of the actual gripping torques M for DHRC-...-S-NO as a function of the application:

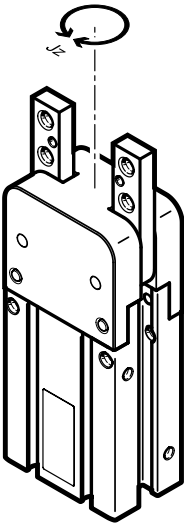
The gripper with integrated spring, DHRC-..S-NO (opening), can be used as a single-acting gripper.

To calculate the available gripping torque $M_{Gr\text{total}}$ (per gripper jaw), the data from the graphs for the gripping force F_{Gr} , the torque curve M and the spring torque MF must be combined accordingly.

$$M_{Gr} = F_{Gr} \cdot x \cdot M \text{ [%]}$$

- M_{Gr} = Gripping torque
- F_{Gr} = Gripping force
- x = Lever arm
- M = Torque curve

Mass moments of inertia



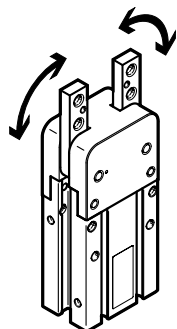
Mass moment of inertia of the gripper in relation to the central axis, without external gripper fingers, with no load.

Mass moments of inertia DHRC-...						
Size	6	10	16	20	25	32
Mass moment of inertia	0.01 kgcm ²	0.04 kgcm ²	0.132 kgcm ²	0.292 kgcm ²	1.311 kgcm ²	3.105 kgcm ²

Mass moments of inertia DHRC-...-NO					
Size	10	16	20	25	32
Mass moment of inertia	0.044 kgcm ²	0.134 kgcm ²	0.294 kgcm ²	1.316 kgcm ²	3.122 kgcm ²

Datasheet

Opening and closing times



The indicated opening and closing times [ms] were measured at room temperature at an operating pressure of 0.6 MPa (6 bar, 87 psi) with a horizontally mounted gripper and without additional gripper fingers (mean values shown). The grippers must be throttled for larger applied loads. Opening and closing times must then be set accordingly.

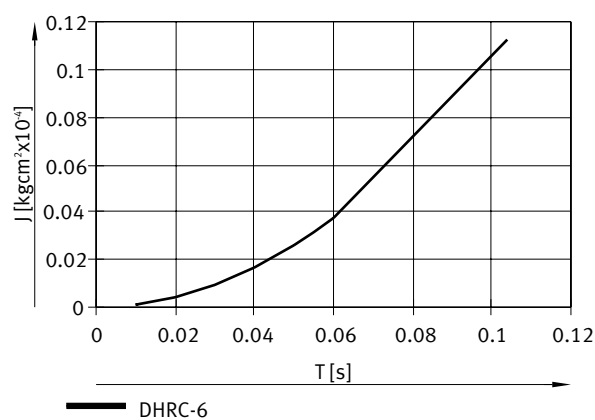
Opening and closing times DHRC-...

Size	6	10	16	20	25	32
Min. opening time at 6 bar	10 ms	28 ms	37 ms	44 ms	90 ms	117 ms
Min. closing time at 6 bar	19 ms	43 ms	53 ms	57 ms	117 ms	129 ms

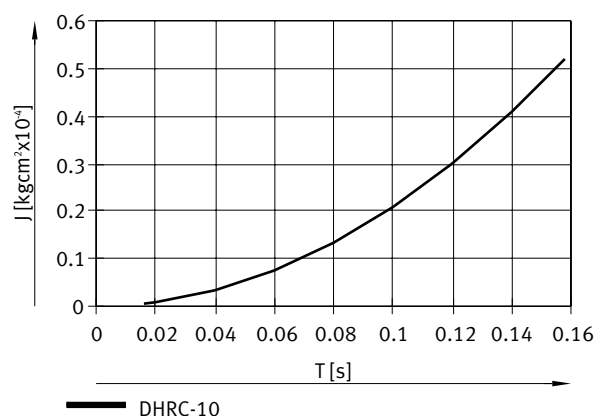
Opening and closing times DHRC-...-NO

Size	10	16	20	25	32
Min. opening time at 6 bar	53 ms	42 ms	73 ms	147 ms	229 ms
Min. closing time at 6 bar	26 ms	21 ms	32 ms	45 ms	65 ms

Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-6

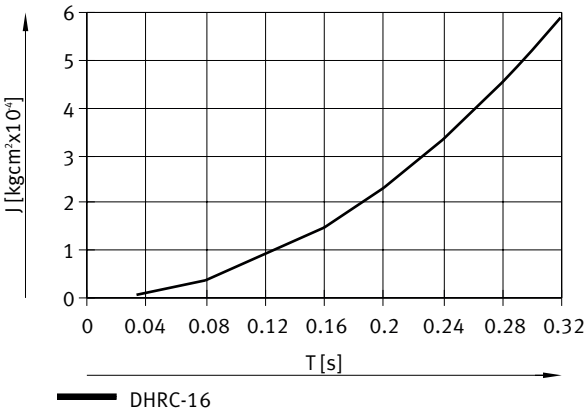


Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-10

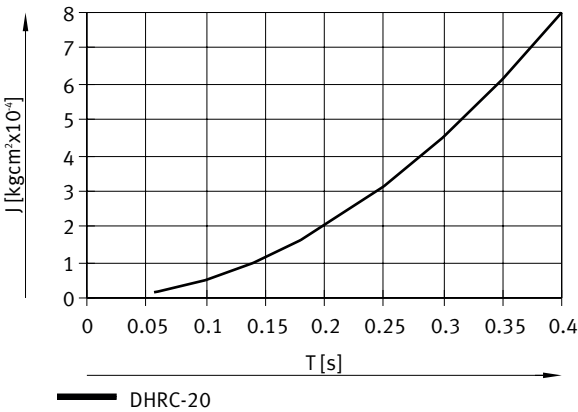


Datasheet

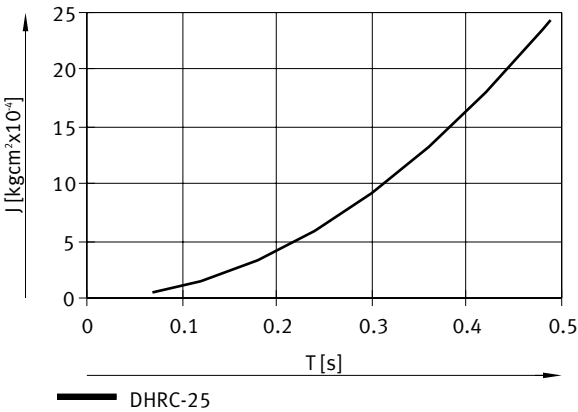
Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-16



Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-20

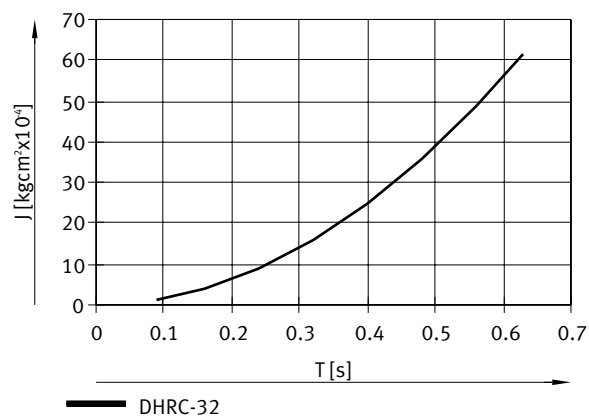


Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-25



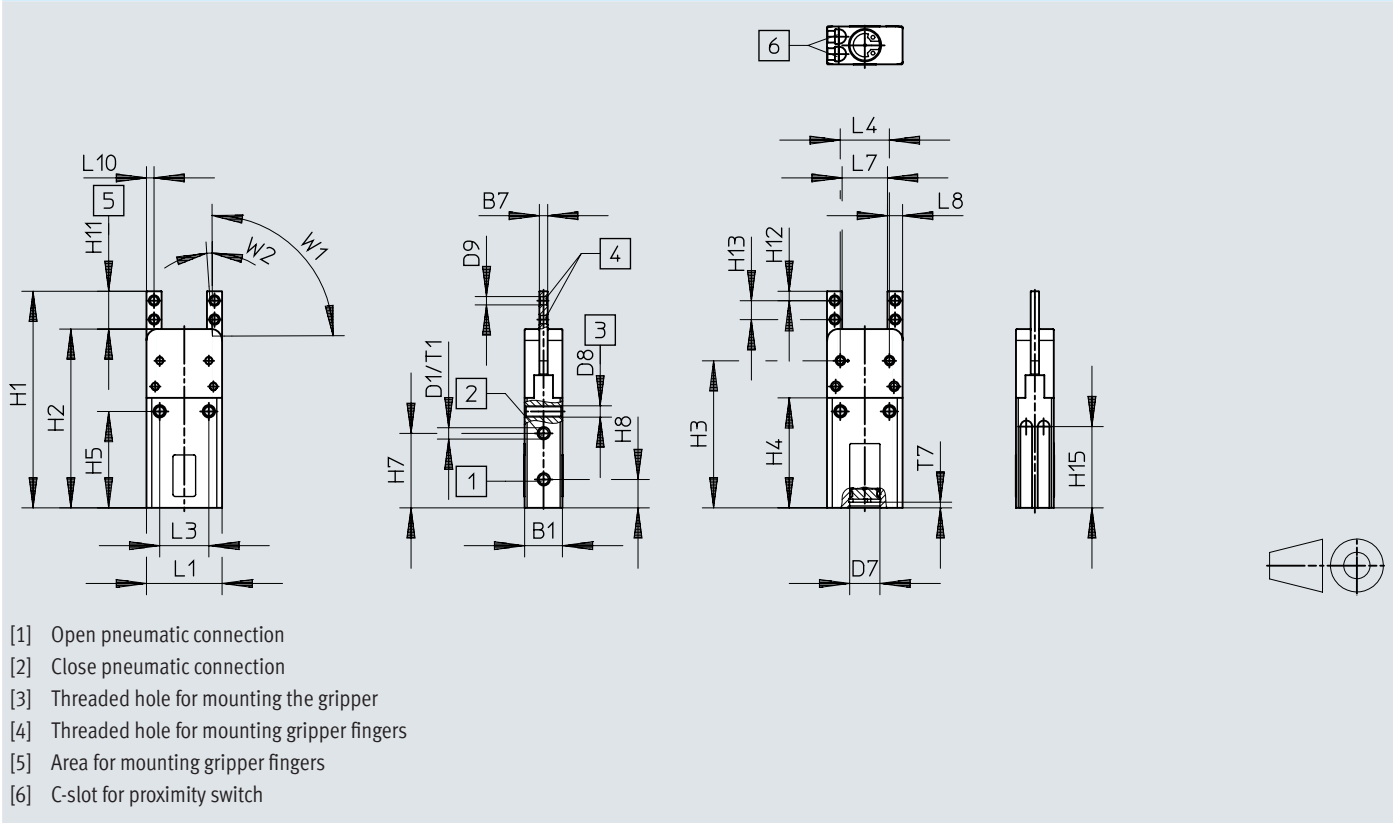
Datasheet

Opening and closing times T to be set at 0.6 MPa (6 bar, 87 psi) as a function of mass moment of inertia of the gripper fingers – DHRC-32



Dimensions

Dimensions – DHRC-6 Download CAD data www.festo.com

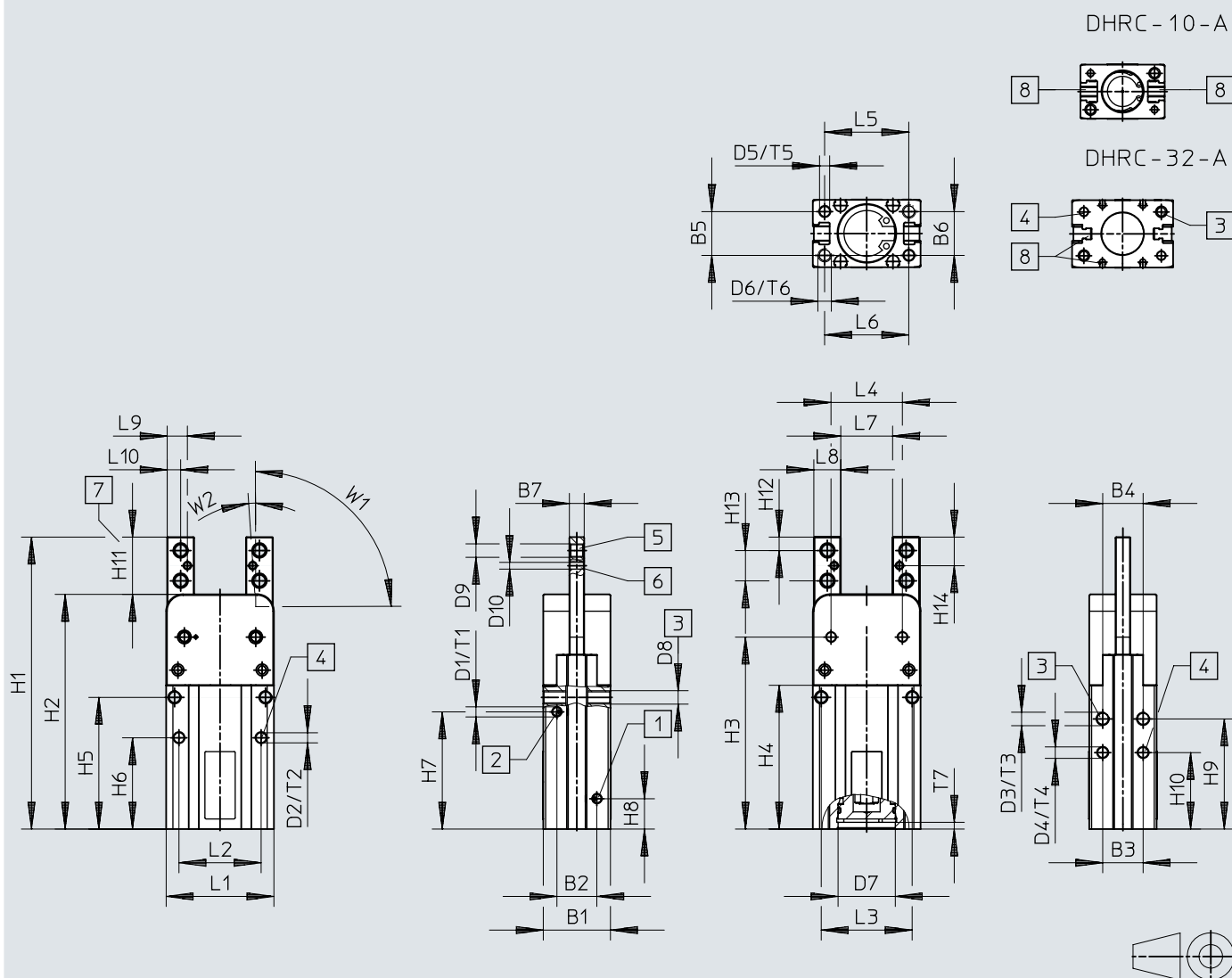


	B1	B7	D1	D7	D8	D9	H1	H2	H3	H4	H5	H7	H8	H11
	+0,3	-0,01 -0,05		ø H8										-0,2
DHRC-6-A	10	2,2	M3	8	M3	2,2 ^{+0,1}	57,3	47,3	38,9	29,1	25,5	19,7	7,5	10

	H12	H13	H15	L1	L3	L4	L7	L8	L10	T1	T7	W1	W2
	-0,2			+0,3			-0,4	-0,4	+0,025 -0,225			±2°	+3°
DHRC-6-A	2,5	5	21,5	20	13	13	12	4	2	4,5	1,5	90°	2°

Dimensions

Dimensions – DHRC-10 ... 32

Download CAD data www.festo.com

- [1] Open pneumatic connection
- [2] Close pneumatic connection
- [3] Threaded hole for mounting the gripper
- [4] Centering holes
- [5] Threaded hole for mounting gripper fingers
- [6] Area for mounting gripper fingers
- [7] DHRC-10: T-slot for proximity switches, DHRC-16 ... 32: Round slot and T-slot for proximity switches

Dimensions

	B1 +0,3	B2	B3 ±0,02	B4	B5	B6 ±0,02	B7 -0,01 -0,05	D1	D2 ∅ H9	D3	D4 ∅ H9	D5 ∅ H9	D6	D7 ∅ H8	D8	D9	D10 ∅ +0,02
DHRC-10-A	16	10,8	10,8	10,8	10,8	10,8	3	M3	2	M3	2	2	M3	12	M3	3,2 ^{+0,1}	2
DHRC-10-A-S-NO																	
DHRC-16-A	20	11,9	12	12	13	13	4,4	M3	3	M4	3	3	M4	17	M4	M4	2
DHRC-16-A-S-NO																	
DHRC-20-A	26	15,6	16	14	16,6	17	5,6	M5	4	M5	4	4	M5	21	M5	M4	2
DHRC-20-A-S-NO																	
DHRC-25-A	33	20,4	21	21	20	20	6,6	M5	4	M6	4	4	M6	26	M6	M5	3
DHRC-25-A-S-NO																	
DHRC-32-A	40	24	26	26	26	26	8,6	M5	5	M6	5	5	M6	25	M6	M6	3
DHRC-32-A-S-NO																	

	H1	H2	H3	H4	H5	H6 +0,1	H7	H8	H9	H10 +0,1	H11 -0,2	H12 -0,2	H13	H14 -0,2	L1 +0,3	L2 ±0,02	L3
DHRC-10-A	69,2	53,6	43,8	-	27,5	17,5	21,5	7	22	14,4	15,6	3,5	8,6	7,8	25	18	18,6
DHRC-10-A-S-NO	75	59,4	49,6		33,3	23,3	27,3		27,8	20,2							
DHRC-16-A	86,7	69,7	57	42,7	39,1	27,1	34,8	9	32,7	22,7	17	4	9	8,5	32	24,4	27
DHRC-16-A-S-NO																	
DHRC-20-A	101,2	82,2	66,9	48,7	44,6	30,6	38,6	10,2	37,6	25,6	19	5	9	9,5	40	28,4	31,6
DHRC-20-A-S-NO																	
DHRC-25-A	122,6	99,6	79,9	58,1	53,4	38,4	46,4	10,5	45,4	33,4	23	5,5	12	11,5	50	37,2	37,4
DHRC-25-A-S-NO																	
DHRC-32-A	141,8	113,8	89,8	61,8	57,3	39,8	49,3	11	48,3	35,3	28	6	16	14	60	46	46
DHRC-32-A-S-NO																	

	L4	L5 ±0,02	L6	L7 -0,4	L8 -0,4	L9 +0,025 -0,225	L10 -0,2	T1	T2	T3	T4	T5	T6	T7	W1 ±2°	W2 +3°
DHRC-10-A	15,8	19	19	13	6	3	3	4	3	4	3	3	4	1,5	90°	2°
DHRC-10-A-S-NO																
DHRC-16-A	21,2	25	25	15,4	8	6	4	4,5	3	4,5	3	3	6	2	90°	2°
DHRC-16-A-S-NO																
DHRC-20-A	26,8	31	30	22	9	6	4,5	6	4	8	4	4	10	2	90°	2°
DHRC-20-A-S-NO																
DHRC-25-A	33	38	38	29,4	10	5	5	7,5	4	10	4	4	12	2	90°	2°
DHRC-25-A-S-NO																
DHRC-32-A	39,8	46	46	34,4	12	6	6	7,5	5	10	5	5	13	2	90°	2°
DHRC-32-A-S-NO																

Ordering data

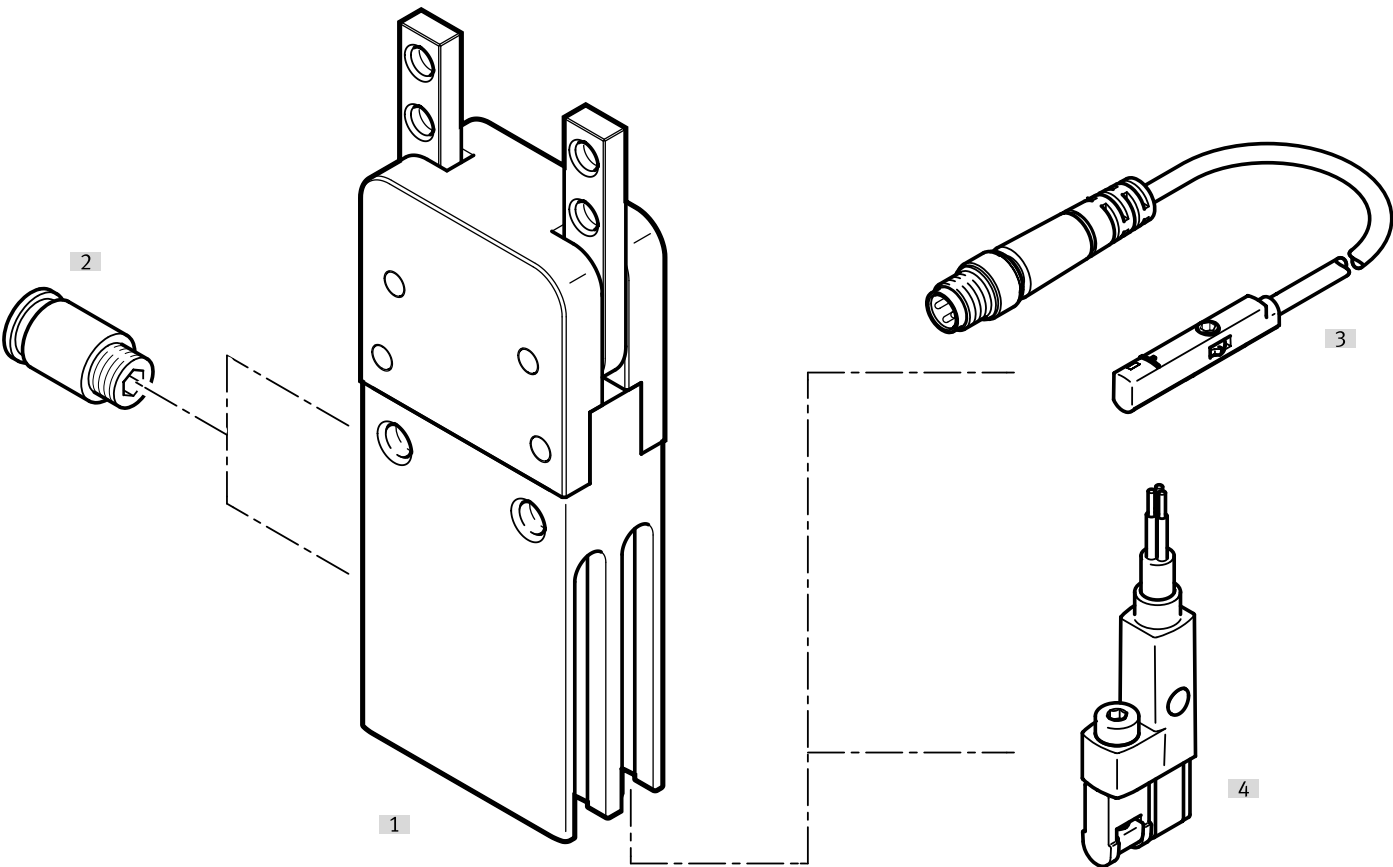
Ordering data					
	Size	Mode of operation	Product weight	Part no.	Type
	6	Double-acting	24.5 g	8125285	DHRC-6-A

Ordering data					
	Size	Mode of operation	Product weight	Part no.	Type
	10	Double-acting	54 g	8125472	DHRC-10-A
		Single-acting	59.5 g	8133559	DHRC-10-A-S-NO
		Open			

Ordering data					
	Size	Mode of operation	Product weight	Part no.	Type
	16	Double-acting	111 g	8128723	DHRC-16-A
		Single-acting	112.5 g	8128721	DHRC-16-A-S-NO
		Open			
	20	Double-acting	218.4 g	8128697	DHRC-20-A
		Single-acting	220 g	8128698	DHRC-20-A-S-NO
		Open			
	25	Double-acting	438.5 g	8128142	DHRC-25-A
		Single-acting	440 g	8133557	DHRC-25-A-S-NO
		Open			
	32	Double-acting	716.5 g	8128107	DHRC-32-A
		Single-acting	720.5 g	8133558	DHRC-32-A-S-NO

Peripherals overview

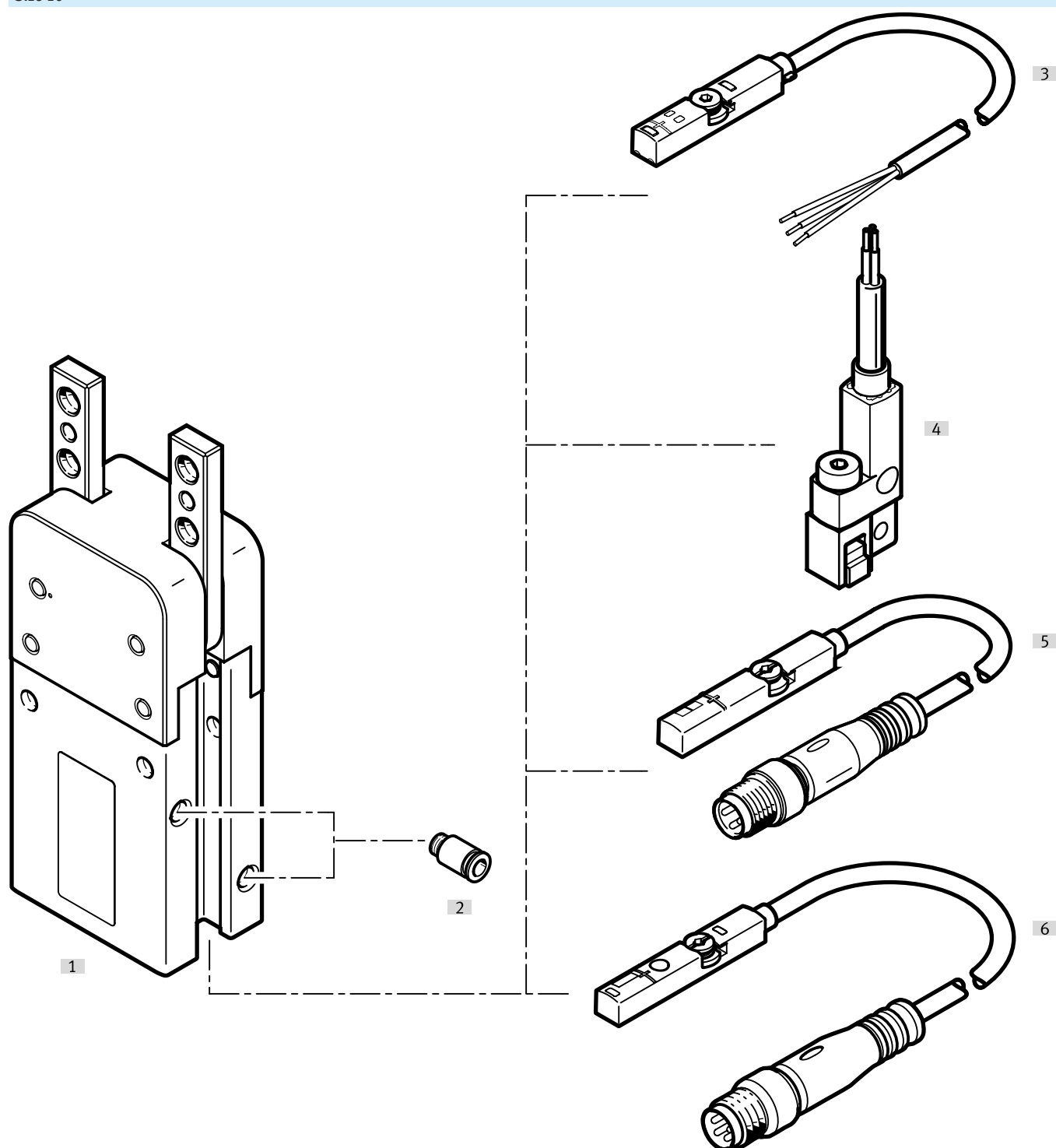
Size 6



Accessories			→ Page/Internet
Type/order code	Description		
[1]	Radial grippers DHRC	Double-acting	dhrc
[2]	Push-in fitting QS	For connecting tubing with standard O.D.	qs
[3]	Proximity switch SMT-10M	To query the piston position in the end positions	27
[4]	Proximity switch SMT-10G	To query the piston position in the end positions	27

Peripherals overview

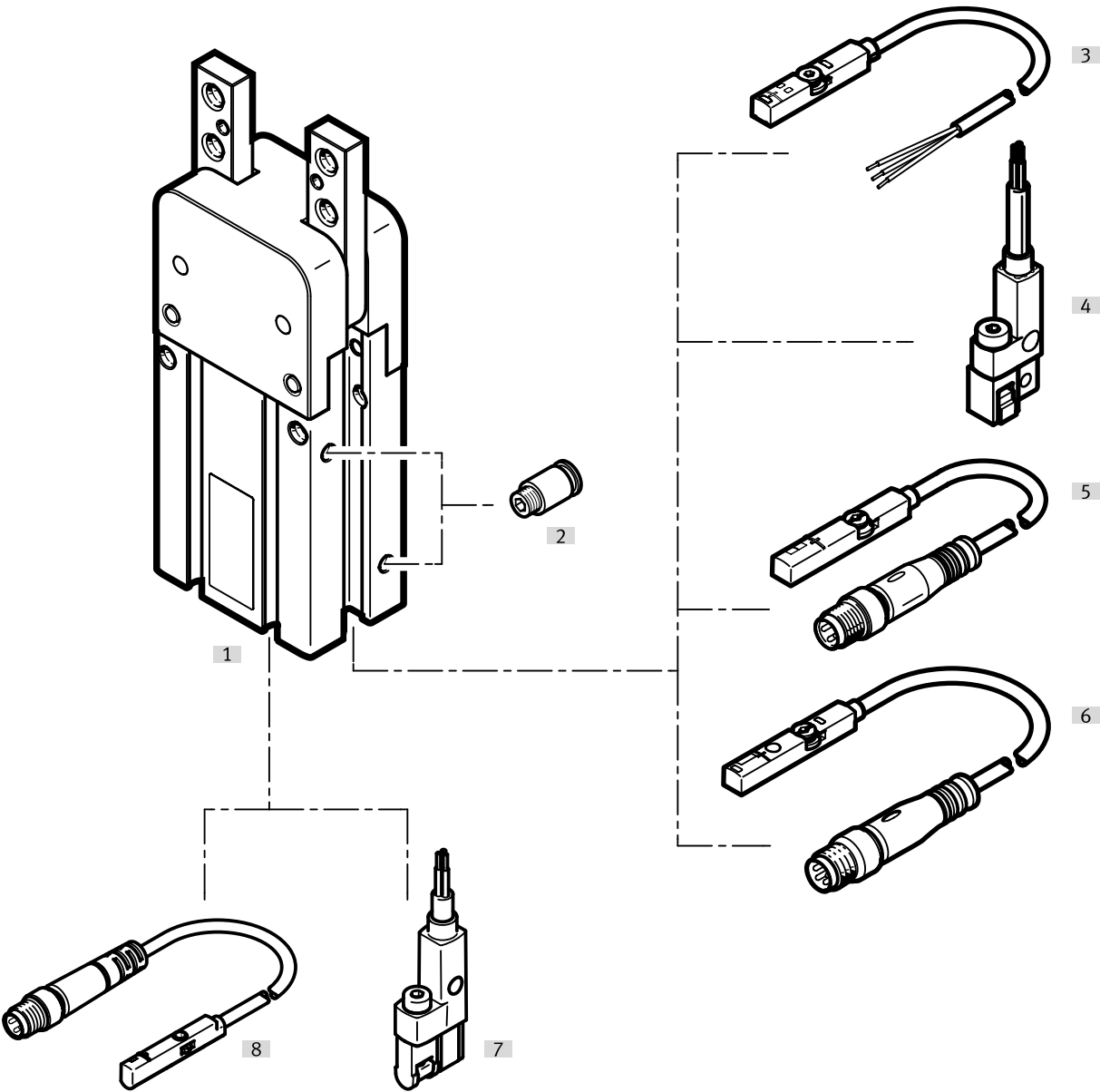
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Accessories			→ Page/Internet
Type/order code	Description		
[1]	Radial grippers DHRC	Double-acting or single-acting	dhrc
[2]	Push-in fitting QS	For connecting tubing with standard O.D.	qs
[3]	Proximity switch SMT-8M	To query the piston position in the end positions	27
[4]	Proximity switch SMT-8G	To query the piston position in the end positions	27
[5]	Position transmitter SMAT-8M	To query the piston position at any point	28
[6]	Position transmitter SDAS-MHS	To query the piston position at any point	28

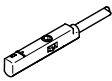
Peripherals overview

Size 16 ... 32

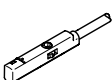


Accessories		→ Page/Internet
Type/order code	Description	
[1] Radial grippers DHRC	Double-acting or single-acting	dhrc
[2] Push-in fitting QS	For connecting tubing with standard O.D.	qs
[3] Proximity switch SMT-8M	To query the piston position in the end positions	27
[4] Proximity switch SMT-8G	To query the piston position in the end positions	27
[5] Position transmitter SMAT-8M	To query the piston position at any point	28
[6] Position transmitter SDAS-MHS	To query the piston position at any point	28
[7] Proximity switch SMT-10G	To query the piston position in the end positions	27
[8] Proximity switch SMT-10M	To query the piston position in the end positions	27

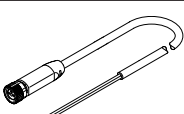
Accessories

Proximity switch SMT-10M for round slot, magnetoresistive							Link smt
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type	
	Screwed on, Can be inserted in slot from above	3-wire PNP N/O contact	Open end	2.5 m	551374	SMT-10M-PS-24V-E-2,5-Q-OE	
					551373	SMT-10M-PS-24V-E-2,5-L-OE	
		Plug M8, A-coded	Open end	0.3 m	551375	SMT-10M-PS-24V-E-0,3-L-M8D	
					551376	SMT-10M-PS-24V-E-0,3-Q-M8D	

Proximity switch SMT-10G for round slot, magnetoresistive							Link smt
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type	
	Clamped in T slot, Can be inserted in slot lengthwise	3-wire NPN N/O contact	Open end	2.5 m	8065030	SMT-10G-NS-24V-E-2,5Q-OE	
			Plug M8, A-coded	0.3 m	8065029	SMT-10G-NS-24V-E-0,3Q-M8D	
		3-wire PNP N/O contact	Open end	2.5 m	547862	SMT-10G-PS-24V-E-2,5Q-OE	
			Plug M8, A-coded	0.3 m	547863	SMT-10G-PS-24V-E-0,3Q-M8D	

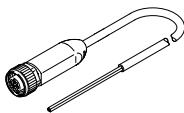
Proximity switch SMT-8M for T-slot, magnetoresistive							Link smt
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type	
	Screwed on, Can be inserted in slot from above	3-wire NPN N/O contact	Open end	2.5 m	574338	SMT-8M-A-NS-24V-E-2,5-OE	
			Plug M8, A-coded	0.3 m	574339	SMT-8M-A-NS-24V-E-0,3-M8D	
		3-wire PNP N/C contact	Open end	7.5 m	574340	SMT-8M-A-PO-24V-E-7,5-OE	
				2.5 m	574335	SMT-8M-A-PS-24V-E-2,5-OE	
		3-wire PNP N/O contact	Plug M8, A-coded	0.3 m	574334	SMT-8M-A-PS-24V-E-0,3-M8D	
			Plug M12, A-coded		574337	SMT-8M-A-PS-24V-E-0,3-M12	

Proximity switch SMT-8G for T-slot, magneto-resistive							Link smt
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type	
	Clamped in T slot, Can be inserted in slot lengthwise	3-wire NPN N/O contact	Open end	2.5 m	8065028	SMT-8G-NS-24V-E-2,5Q-OE	
			Plug M8, A-coded	0.3 m	8065027	SMT-8G-NS-24V-E-0,3Q-M8D	
		3-wire PNP N/O contact	Open end	2.5 m	547859	SMT-8G-PS-24V-E-2,5Q-OE	
			Plug M8, A-coded	0.3 m	547860	SMT-8G-PS-24V-E-0,3Q-M8D	

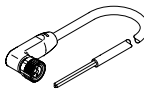
Connecting cables NEBA, straight, M8 connection							
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type	
	M8x1 A-coded as per EN 61076-2-104	Open end	3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3	
				5 m	8078224	NEBA-M8G3-U-5-N-LE3	

Accessories

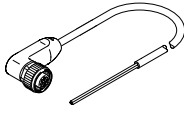
Connecting cables NEBA, straight, M12 connection

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	3	2.5 m	8078236	NEBA-M12G5-U-2.5-N-LE3
				5 m	8078237	NEBA-M12G5-U-5-N-LE3

Connecting cables NEBA, angled, M8 connection

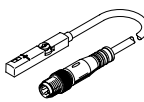
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M8x1 A-coded as per EN 61076-2-104	Open end	3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Connecting cables NEBA, angled, M12 connection

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	3	2.5 m	8078245	NEBA-M12W5-U-2.5-N-LE3
				5 m	8078246	NEBA-M12W5-U-5-N-LE3

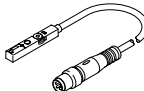
Position transmitter SMAT-8M for T-slot, M8 plug, A-coded

Link [smat](#)

	Sensing range	Analog output	Electrical connection 1, number of pins/wires	Cable length	Part no.	Type
	52 mm	0 - 10 V	4	0.3 m	553744	SMAT-8M-U-E-0,3-M8D

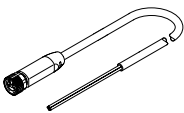
Position transmitter SDAS for T-slot, M8 plug, A-coded

Link [sdas](#)

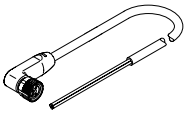
	Description	Sensing range	Electrical connection 1, number of pins/wires	Cable length	Part no.	Type
	Operating modes: two adjustable switching outputs; IO-Link®	52 mm	4	0.3 m	8063974	SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8
				2.5 m	8063975	SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE

Accessories

Connecting cables NEBA, straight

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M8x1 A-coded as per EN 61076-2-104	Open end	4	2.5 m	8078227	NEBA-M8G4-U-2.5-N-LE4
				5 m	8078228	NEBA-M8G4-U-5-N-LE4

Connecting cables NEBA, angled

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M8x1 A-coded as per EN 61076-2-104	Open end	4	2.5 m	8078233	NEBA-M8W4-U-2.5-N-LE4
				5 m	8078234	NEBA-M8W4-U-5-N-LE4