Compact cylinders DPCS

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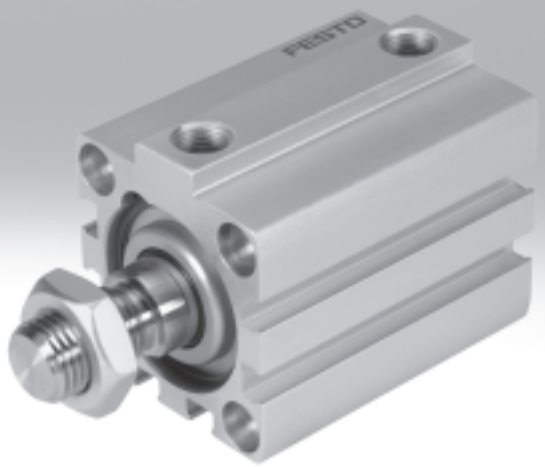


New

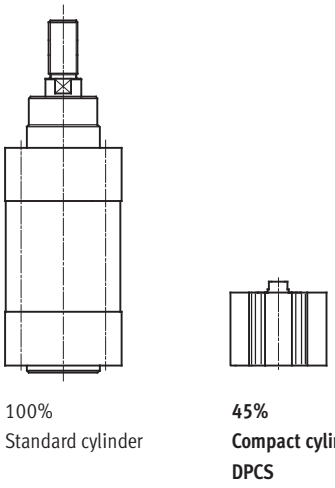
Compact cylinders DPCS

Key features

At a glance

- Short-stroke cylinders are ideal for clamping tasks with short strokes
- They are characterised by:
  - Rapid response when pressure is applied
  - Large clamping forces in comparison to their size
  - Minimal fitting space
- Variants:
  - Piston rod with male and female thread
  - Through piston rod
  - All piston diameters with and without position sensing
- Contactless position sensing via proximity sensors

Fitting space comparison with 10 mm stroke



100%
Standard cylinder

45%
Compact cylinder
DPCS

Sensor slots

For piston ∅ 12 ... 25

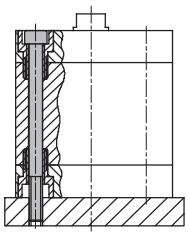
C-slot for proximity sensor
SMT-10

For piston ∅ 32 ... 100

T-slot for proximity sensor
SMT-8

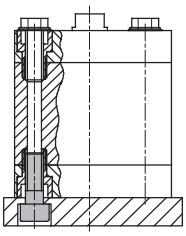
Mounting options

Via through-hole



Via female thread

Not available in combination with through piston rod.



Compact cylinders DPCS

Product range overview

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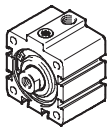
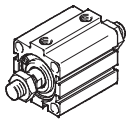
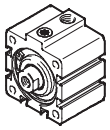
Function	Version	Type	Piston ∅	Stroke	Position sensing	Piston rod		→ Page
						With male thread	With female thread	
Double-acting	**Piston rod at one end**							
		DPCS-...	12, 16	1 ... 30	■	■	■	4
			20, 25	1 ... 50				
			32 ... 100	1 ... 100				
	Through piston rod							
		DPCS-...-T	12 ... 100	1 ... 100	■	■	■	4
Single-acting	**Piston rod at one end**							
		DPCS-...-S	12 ... 40	5, 10	■	■	■	16
			50	10, 20				

New

Compact cylinders DPCS

Type codes and peripherals overview – Double-acting

Type codes

DPCS	–	25	–	100	–		F	–	P	A	–	F

Type

DPCS	Double-acting

Piston ∅ [mm]

Stroke [mm]

Piston rod type

–	Piston rod at one end
T	Through piston rod

Piston rod thread type

–	Male thread
F	Female thread

Cushioning

P	Elastic cushioning rings/pads at both ends

Position sensing

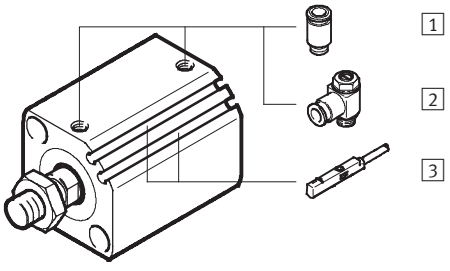
–	Without proximity sensor
A	Via proximity sensor

Type of mounting

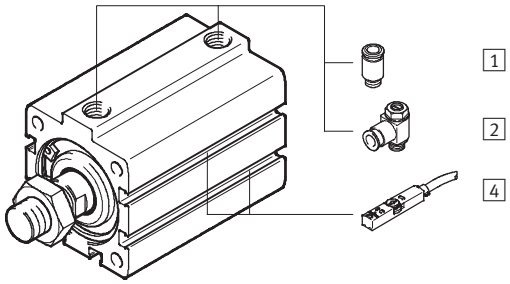
–	Via through-hole
F	Female thread

Peripherals overview

Piston ∅ 12 ... 25



Piston ∅ 32 ... 100



Mounting attachments and accessories

	Brief description	→ Page/Internet
1 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	quick star
2 One-way flow control valve GRLA/GRLZ	For regulating speed	24
3 Proximity sensor SMT-10	Can be integrated in the cylinder profile barrel	24
4 Proximity sensor SMT-8		

Compact cylinders DPCS

Technical data – Double-acting

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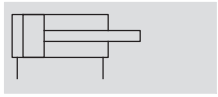
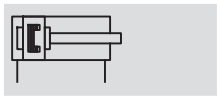
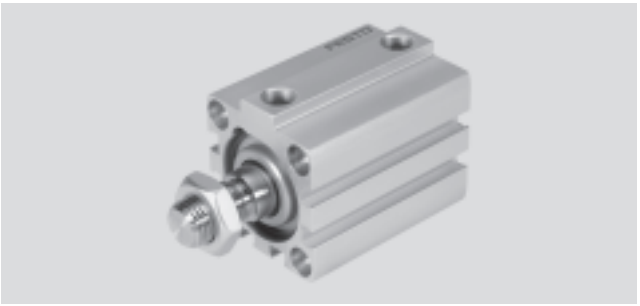
Function





-N- Diameter
12 ... 100 mm

-T- Stroke length
1 ... 100 mm



General technical data											
Piston ∅		12	16	20	25	32	40	50	63	80	100
Pneumatic connection		M5	M5	M5	M5	M5[1)] G1⁄8	G1⁄8	G1⁄4	G1⁄4	G3⁄8	G3⁄8
Stroke		1 ... 30 mm		1 ... 50 mm		1 ... 100 mm					
Design		Piston									
		Piston rod									
		Cylinder barrel									
Mode of operation		Double-acting									
Piston rod thread type		Female thread									
		Male thread									
Cushioning		Elastic cushioning rings/pads at both ends									
Position sensing		Via proximity sensor									
Type of mounting		Via through-hole									
		Via female thread									
Mounting position		Any									

1) In combination with drive without position sensing and stroke ≤ 5 mm

Operating and environmental conditions											
Piston ∅		12	16	20	25	32	40	50	63	80	100
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]									
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)									
Operating pressure	[bar]	1.5 ... 10		1 ... 10		0.6 ... 10					
Ambient temperature	[°C]	–20 ... +80									
Corrosion resistance class CRC[1)]		2									

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Compact cylinders DPCS

Technical data – Double-acting

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Forces [N] and impact energy [J]										
Piston ∅	12	16	20	25	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	68	121	189	295	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, retracting	51	91	133	221	363	633	990	1,682	2,721	4,288
Max. impact energy in the end positions	0.06	0.10	0.14	0.18	0.26	0.36	0.60	0.64	0.90	1.20

Permissible impact velocity:

$$v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{dead} + m_{load}}}$$

Maximum permissible load:

$$m_{load} = \frac{2 \times E_{perm.}}{v^2} - m_{dead}$$

$v_{perm.}$ Permissible impact velocity
$E_{perm.}$ Maximum impact energy
m_{dead} Moving load (drive)
m_{load} Moving effective load

Note

These specifications represent the maximum values that can be achieved. Note the maximum permissible impact energy.

Weight [g]										
Piston ∅	12	16	20	25	32	40	50	63	80	100
DPCS-...-P – Without position sensing										
Product weight with 0 mm stroke	26	40	69	109	163	223	314	480	974	1,627
Additional weight per 10 mm stroke	13	17	27	33	43	49	77	91	149	200
Moving load with 0 mm stroke	8	15	25	46	94	95	133	141	286	361
Additional load per 10 mm stroke	2	4	6	9	16	16	24	24	38	55
DPCS-...F-PA – With position sensing										
Product weight with 0 mm stroke	42	64	104	146	208	307	429	656	1,253	2,135
Additional weight per 10 mm stroke	13	17	27	33	43	49	77	91	149	200
Moving load with 0 mm stroke	11	17	30	51	101	130	150	205	418	666
Additional load per 10 mm stroke	2	4	6	9	16	16	24	24	38	55
DPCS-...T-P – With through piston rod, without position sensing										
Product weight with 0 mm stroke	42	62	83	118	182	276	485	616	1,264	2,175
Additional weight per 10 mm stroke	15	21	33	42	55	65	101	116	186	254
Moving load with 0 mm stroke	15	24	30	43	106	113	195	190	399	526
Additional load per 10 mm stroke	4	8	12	18	31	31	48	48	75	109
DPCS-...T-PA – With through piston rod, with position sensing										
Product weight with 0 mm stroke	43	82	141	199	324	452	720	946	1,887	3,073
Additional weight per 10 mm stroke	15	21	33	42	55	65	101	116	186	254
Moving load with 0 mm stroke	16	28	52	75	178	204	325	380	789	1,200
Additional load per 10 mm stroke	4	8	12	18	31	31	48	48	75	109

Compact cylinders DPCS

Technical data – Double-acting

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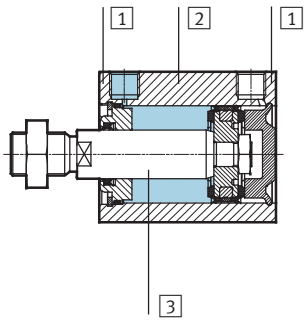
Materials

Sectional view



Compact cylinder		
1	Cover	Wrought aluminium alloy
2	Cylinder barrel	Wrought aluminium alloy
3	Piston rod	
	∅ 12 ... 40	High-alloy stainless steel
	∅ 50 ... 100	High-alloy steel
–	Seals	TPE-U(PU), NBR
	Note on materials	RoHS-compliant

Compact cylinders DPCS

Technical data – Double-acting

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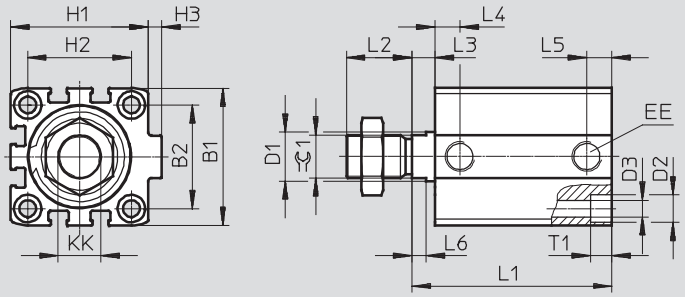
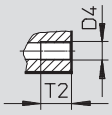
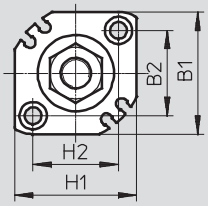
DPCS – With male thread



DPCS-...-F



∅ 12 ... 25



∅ [mm]	B1 ±0.3	B2 ±0.2	D1 ∅ h8	KK	EE	D2 ∅ F9	D3 ∅ H13	D4	H1 ±0.3	H2 ±0.2	H3 ±0.2	L2 −0.5	L3 +1.3	L4 +0.3	L5 +0.3	L6 −0.15	T1 ±0.2	T2 min	⏥1 h13
Piston rod at one end and through piston rod																			
12	25	15.5	6	M5	M5	6.5	3.5	M4	25	15.5	–	10.5	3.5	5.2	5.2	3.5	3.5	7	5
16	29	20	8	M6	M5	6.5	3.5	M4	29	20	–	12	3.5	5.2	5.2	3.5	3.5	7	6
20	36	25.5	10	M8	M5	9	5.5	M6	36	25.5	–	14	4.5	5.2	5.2	4.5	7	10	8
25	40	28	12	M10x1.25	M5	9	5.5	M6	40	28	–	17.5	5	5.2	5.2	5	7	10	10
32	45	34	16	M14x1.5	G1⁄8[1]	9	5.5	M6	45	34	4.5	21.5	7	8.2	8.2[1]	4.7	7	16	14
Piston rod at one end																			
40	52	40	16	M14x1.5	G1⁄8	9	5.5	M6	52	40	5	21.5	7	9.9[2]	8.2	4.7	7	16	14
50	64	50	20	M18x1.5	G1⁄4	11	6.6	M8	64	50	7	25.5	8	10.2	10.2	7	8	20	17
63	77	60	20	M18x1.5	G1⁄4	14	9	M10	77	60	7	25.5	8	11.5	10.2	7	10.5	25	17
80	98	77	25	M22x1.5	G3⁄8	17.5	11	M12	98	77	6	33.5	10	15	12.7	9	13.5	30	22
100	117	94	30	M26x1.5	G3⁄8	17.5	11	M12	117	94	6.5	33.5	12	22	13	10	13.5	30	27
Through piston rod																			
40	52	40	16	M14x1.5	G1⁄8	9	5.5	M6	52	40	5	21.5	7	9.9	9.9	4.7	7	16	14
50	64	50	20	M18x1.5	G1⁄4	11	6.6	M8	64	50	7	25.5	8	12	12	7	8	20	17
63	77	60	20	M18x1.5	G1⁄4	14	9	M10	77	60	7	25.5	8	10.2	10.2	7	10.5	25	17
80	98	77	25	M22x1.5	G3⁄8	17.5	11	M12	98	77	6	33.5	10	15.2	15.2	9	13.5	30	22
100	117	94	30	M26x1.5	G3⁄8	17.5	11	M12	117	94	6.5	33.5	12	22	22	10	13.5	30	27

1) In combination with drive without position sensing and stroke ≤ 5 mm: EE = M5, L5 = 5.5 mm

2) In combination with drive without position sensing and stroke ≤ 5 mm: L4 = $9.9_{-0.3}$ mm

Compact cylinders DPCS

Technical data – Double-acting

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Stroke range	L1											
	0 ... 5	6 ... 10	11 ... 15	16 ... 20	21 ... 25	26 ... 30	31 ... 35	36 ... 40	41 ... 45	46 ... 50	51 ... 75	76 ... 100
∅ [mm]												
Without position sensing												
12	25.5	30.5	35.5	40.5	45.5	50.5	–	–	–	–	–	–
16	27	32	37	42	47	52	–	–	–	–	–	–
20	29	34	39	44	49	54	59	64	69	74	–	–
25	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	–	–
32	35	40	45	50	55	60	65	70	75	80	115	140
40	41.5	46.5	51.5	56.5	61.5	66.5	71.5	76.5	81.5	86.5	121.5	146.5
50	–	48.5	53.5	58.5	63.5	68.5	73.5	78.5	83.5	88.5	123.5	148.5
63	–	54	59	64	69	74	79	84	89	94	129	154
80	–	63.5	68.5	73.5	78.5	83.5	88.5	93.5	98.5	103.5	138.5	163.5
100	–	75	80	85	90	95	100	105	110	115	150	175
With position sensing												
12	36.5	41.5	46.5	51.5	56.5	61.5	–	–	–	–	–	–
16	39	44	49	54	59	64	–	–	–	–	–	–
20	41	46	51	56	61	66	71	76	81	86	–	–
25	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	–	–
32	45	50	55	60	65	70	75	80	85	90	115	140
40	51.5	56.5	61.5	66.5	71.5	76.5	81.5	86.5	91.5	96.5	121.5	146.5
50	–	58.5	63.5	68.5	73.5	78.5	83.5	88.5	93.5	98.5	123.5	148.5
63	–	64	69	74	79	84	89	94	99	104	129	154
80	–	73.5	78.5	83.5	88.5	93.5	98.5	103.5	108.5	113.5	138.5	163.5
100	–	85	90	95	100	105	110	115	120	125	150	175

Compact cylinders DPCS

Technical data – Double-acting

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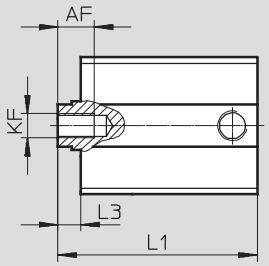
DPCS-...-F – With female thread



Basic dimensions ➔ 8

∅ [mm]	KF	L3 +1.3	AF min
12	M3	3.5	6
16	M4	3.5	8
20	M5	4.5	7
25	M6	5	12
32	M8	7	12
40	M8	7	12
50	M10	8	14
63	M10	8	14
80	M16	10	20
100	M20	12	25

	L1											
Stroke range	0 ... 5	6 ... 10	11 ... 15	16 ... 20	21 ... 25	26 ... 30	31 ... 35	36 ... 40	41 ... 45	46 ... 50	51 ... 75	76 ... 100
∅ [mm]												
Without position sensing												
12	25.5	30.5	35.5	40.5	45.5	50.5	–	–	–	–	–	–
16	27	32	37	42	47	52	–	–	–	–	–	–
20	29	34	39	44	49	54	59	64	69	74	–	–
25	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	–	–
32	35	40	45	50	55	60	65	70	75	80	115	140
40	41.5	46.5	51.5	56.5	61.5	66.5	71.5	76.5	81.5	86.5	121.5	146.5
50	–	48.5	53.5	58.5	63.5	68.5	73.5	78.5	83.5	88.5	123.5	148.5
63	–	54	59	64	69	74	79	84	89	94	129	154
80	–	63.5	68.5	73.5	78.5	83.5	88.5	93.5	98.5	103.5	138.5	163.5
100	–	75	80	85	90	95	100	105	110	115	150	175
With position sensing												
12	36.5	41.5	46.5	51.5	56.5	61.5	–	–	–	–	–	–
16	39	44	49	54	59	64	–	–	–	–	–	–
20	41	46	51	56	61	66	71	76	81	86	–	–
25	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	–	–
32	45	50	55	60	65	70	75	80	85	90	115	140
40	51.5	56.5	61.5	66.5	71.5	76.5	81.5	86.5	91.5	96.5	121.5	146.5
50	–	58.5	63.5	68.5	73.5	78.5	83.5	88.5	93.5	98.5	123.5	148.5
63	–	64	69	74	79	84	89	94	99	104	129	154
80	–	73.5	78.5	83.5	88.5	93.5	98.5	103.5	108.5	113.5	138.5	163.5
100	–	85	90	95	100	105	110	115	120	125	150	175

Compact cylinders DPCS

Technical data – Double-acting

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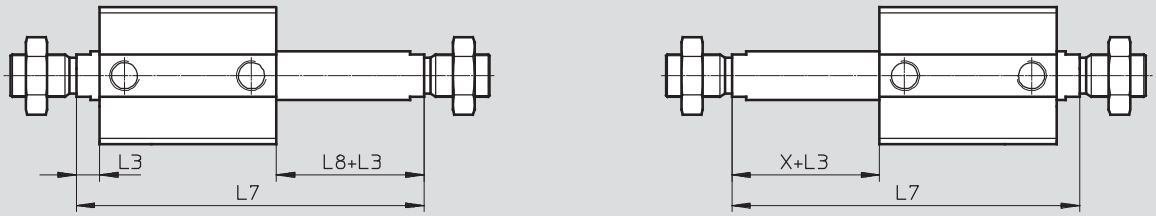
Dimensions Download CAD Data ➔ **www.festo.com/us/cad**

DPCS-...-T – With through piston rod



X Selected stroke

∅ [mm]	L3 +1.3
12	3.5
16	3.5
20	4.5
25	5
32	7
40	7
50	8
63	8
80	10
100	12

	L7											
Stroke range	0 ... 5	6 ... 10	11 ... 15	16 ... 20	21 ... 25	26 ... 30	31 ... 35	36 ... 40	41 ... 45	46 ... 50	51 ... 75	76 ... 100
∅ [mm]												
Without position sensing												
12	42.2	52.2	62.2	72.2	82.2	92.2	–	–	–	–	–	–
16	43	53	63	73	83	93	–	–	–	–	–	–
20	45	55	65	75	85	95	105	115	125	135	–	–
25	49	59	69	79	89	99	109	119	129	139	–	–
32	54.5	64.5	74.5	84.5	94.5	104.5	114.5	124.5	134.5	144.5	204.5	254.5
40	64	74	84	94	104	114	124	134	144	154	214	264
50	–	76.5	86.5	96.5	106.5	116.5	126.5	136.5	146.5	156.5	216.5	266.5
63	–	78	88	98	108	118	128	138	148	158	218	268
80	–	91	101	111	121	131	141	151	161	171	231	281
100	–	104.5	114.5	124.5	134.5	144.5	154.5	164.5	174.5	184.5	244.5	294.5
With position sensing												
12	49.4	59.4	69.4	79.4	89.4	99.4	–	–	–	–	–	–
16	53	63	73	83	93	103	–	–	–	–	–	–
20	57	67	77	87	97	107	117	127	137	147	–	–
25	59	69	79	89	99	109	119	129	139	149	–	–
32	64.5	74.5	84.5	94.5	104.5	114.5	124.5	134.5	144.5	154.5	204.5	254.5
40	74	84	94	104	114	124	134	144	154	164	214	264
50	–	86.5	96.5	106.5	116.5	126.5	136.5	146.5	156.5	166.5	216.5	266.5
63	–	88	98	108	118	128	138	148	158	168	218	268
80	–	101	111	121	131	141	151	161	171	181	231	281
100	–	114.5	124.5	134.5	144.5	154.5	164.5	174.5	184.5	194.5	244.5	294.5

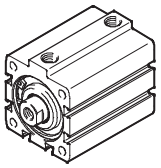
	L8											
Stroke range	0 ... 5	6 ... 10	11 ... 15	16 ... 20	21 ... 25	26 ... 30	31 ... 35	36 ... 40	41 ... 45	46 ... 50	51 ... 75	76 ... 100
∅ [mm]												
12 ... 100	5	10	15	20	25	30	35	40	45	50	75	100

Compact cylinders DPCS

Technical data – Double-acting

FESTO

Ordering data

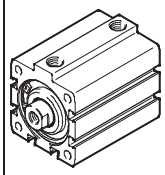
Type	Piston ∅ [mm]	Stroke [mm]	– Without position sensing Part No.	Type	A – For position sensing Part No.	Type
	Female piston rod thread					
	12	5	1496910	DPCS-12-5-F-P	1496780	DPCS-12-5-F-PA
		10	1496838	DPCS-12-10-F-P	1496869	DPCS-12-10-F-PA
		15	1496854	DPCS-12-15-F-P	1496866	DPCS-12-15-F-PA
		20	1496849	DPCS-12-20-F-P	1496905	DPCS-12-20-F-PA
		25	1496826	DPCS-12-25-F-P	1496889	DPCS-12-25-F-PA
		30	1496852	DPCS-12-30-F-P	1496842	DPCS-12-30-F-PA
	16	5	1484520	DPCS-16-5-F-P	1484345	DPCS-16-5-F-PA
		10	1484489	DPCS-16-10-F-P	1484452	DPCS-16-10-F-PA
		15	1484467	DPCS-16-15-F-P	1484336	DPCS-16-15-F-PA
		20	1484507	DPCS-16-20-F-P	1484329	DPCS-16-20-F-PA
		25	1484484	DPCS-16-25-F-P	1484381	DPCS-16-25-F-PA
		30	1484478	DPCS-16-30-F-P	1484450	DPCS-16-30-F-PA
	20	5	1446012	DPCS-20-5-F-P	1445887	DPCS-20-5-F-PA
		10	1446154	DPCS-20-10-F-P	1445896	DPCS-20-10-F-PA
		15	1445999	DPCS-20-15-F-P	1445877	DPCS-20-15-F-PA
		20	1446011	DPCS-20-20-F-P	1445885	DPCS-20-20-F-PA
		25	1446165	DPCS-20-25-F-P	1445903	DPCS-20-25-F-PA
		30	1446157	DPCS-20-30-F-P	1445900	DPCS-20-30-F-PA
		40	1446014	DPCS-20-40-F-P	1445870	DPCS-20-40-F-PA
		50	1446174	DPCS-20-50-F-P	1445881	DPCS-20-50-F-PA
	25	5	1409026	DPCS-25-5-F-P	1409129	DPCS-25-5-F-PA
		10	1409068	DPCS-25-10-F-P	1409135	DPCS-25-10-F-PA
		15	1409031	DPCS-25-15-F-P	1409164	DPCS-25-15-F-PA
		20	1409044	DPCS-25-20-F-P	1409175	DPCS-25-20-F-PA
		25	1409067	DPCS-25-25-F-P	1409174	DPCS-25-25-F-PA
		30	1409052	DPCS-25-30-F-P	1409168	DPCS-25-30-F-PA
		40	1409045	DPCS-25-40-F-P	1409149	DPCS-25-40-F-PA
		50	1409024	DPCS-25-50-F-P	1409153	DPCS-25-50-F-PA
	32	5	1403707	DPCS-32-5-F-P	1627644	DPCS-32-5-F-PA
		10	1403695	DPCS-32-10-F-P	1627649	DPCS-32-10-F-PA
		15	1403696	DPCS-32-15-F-P	1627646	DPCS-32-15-F-PA
		20	1403701	DPCS-32-20-F-P	1627650	DPCS-32-20-F-PA
		25	1403703	DPCS-32-25-F-P	1627653	DPCS-32-25-F-PA
		30	1403698	DPCS-32-30-F-P	1627656	DPCS-32-30-F-PA
		40	1403699	DPCS-32-40-F-P	1627658	DPCS-32-40-F-PA
		50	1403709	DPCS-32-50-F-P	1627640	DPCS-32-50-F-PA
		75	1403710	DPCS-32-75-F-P	1627657	DPCS-32-75-F-PA
		100	1403704	DPCS-32-100-F-P	1627642	DPCS-32-100-F-PA
	40	5	1398662	DPCS-40-5-F-P	1387478	DPCS-40-5-F-PA
		10	1398648	DPCS-40-10-F-P	1387464	DPCS-40-10-F-PA
		15	1398652	DPCS-40-15-F-P	1387468	DPCS-40-15-F-PA
		20	1398654	DPCS-40-20-F-P	1387470	DPCS-40-20-F-PA
		25	1398656	DPCS-40-25-F-P	1387472	DPCS-40-25-F-PA
		30	1398658	DPCS-40-30-F-P	1387474	DPCS-40-30-F-PA
		40	1398660	DPCS-40-40-F-P	1387476	DPCS-40-40-F-PA
		50	1398664	DPCS-40-50-F-P	1387480	DPCS-40-50-F-PA
		75	1398666	DPCS-40-75-F-P	1387482	DPCS-40-75-F-PA
		100	1398650	DPCS-40-100-F-P	1387466	DPCS-40-100-F-PA

Compact cylinders DPCS

Technical data – Double-acting

FESTO

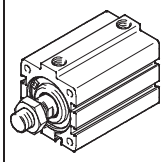
Ordering data

Type	Piston ∅ [mm]	Stroke [mm]	– Without position sensing Part No.	Type	A – For position sensing Part No.	Type
	Female piston rod thread					
	50	10	1416531	DPCS-50-10-F-P	1486707	DPCS-50-10-F-PA
		15	1416546	DPCS-50-15-F-P	1486721	DPCS-50-15-F-PA
		20	1416536	DPCS-50-20-F-P	1486709	DPCS-50-20-F-PA
		25	1416545	DPCS-50-25-F-P	1486716	DPCS-50-25-F-PA
		30	1416540	DPCS-50-30-F-P	1486718	DPCS-50-30-F-PA
		40	1416548	DPCS-50-40-F-P	1486720	DPCS-50-40-F-PA
		50	1416530	DPCS-50-50-F-P	1486712	DPCS-50-50-F-PA
		75	1416552	DPCS-50-75-F-P	1486719	DPCS-50-75-F-PA
		100	1416542	DPCS-50-100-F-P	1486713	DPCS-50-100-F-PA
	63	10	1531174	DPCS-63-10-F-P	1495510	DPCS-63-10-F-PA
		15	1531178	DPCS-63-15-F-P	1495513	DPCS-63-15-F-PA
		20	1531180	DPCS-63-20-F-P	1495514	DPCS-63-20-F-PA
		25	1531182	DPCS-63-25-F-P	1495574	DPCS-63-25-F-PA
		30	1531184	DPCS-63-30-F-P	1495572	DPCS-63-30-F-PA
		40	1531186	DPCS-63-40-F-P	1495509	DPCS-63-40-F-PA
		50	1531190	DPCS-63-50-F-P	1495516	DPCS-63-50-F-PA
		75	1531192	DPCS-63-75-F-P	1495566	DPCS-63-75-F-PA
		100	1531176	DPCS-63-100-F-P	1495515	DPCS-63-100-F-PA
	80	10	1516637	DPCS-80-10-F-P	1497700	DPCS-80-10-F-PA
		15	1516636	DPCS-80-15-F-P	1497742	DPCS-80-15-F-PA
		20	1516642	DPCS-80-20-F-P	1497739	DPCS-80-20-F-PA
		25	1516644	DPCS-80-25-F-P	1497736	DPCS-80-25-F-PA
		30	1516650	DPCS-80-30-F-P	1497732	DPCS-80-30-F-PA
		40	1516648	DPCS-80-40-F-P	1497711	DPCS-80-40-F-PA
		50	1516646	DPCS-80-50-F-P	1497693	DPCS-80-50-F-PA
		75	1516654	DPCS-80-75-F-P	1497716	DPCS-80-75-F-PA
		100	1516640	DPCS-80-100-F-P	1497734	DPCS-80-100-F-PA
	100	10	1499021	DPCS-100-10-F-P	1499193	DPCS-100-10-F-PA
		15	1499007	DPCS-100-15-F-P	1499175	DPCS-100-15-F-PA
		20	1498989	DPCS-100-20-F-P	1499206	DPCS-100-20-F-PA
		25	1498994	DPCS-100-25-F-P	1499162	DPCS-100-25-F-PA
		30	1499004	DPCS-100-30-F-P	1499151	DPCS-100-30-F-PA
		35	1499018	DPCS-100-35-F-P	1499212	DPCS-100-35-F-PA
		40	1499014	DPCS-100-40-F-P	1499173	DPCS-100-40-F-PA
		45	1499013	DPCS-100-45-F-P	1499168	DPCS-100-45-F-PA
		50	1499020	DPCS-100-50-F-P	1499187	DPCS-100-50-F-PA
		75	1498991	DPCS-100-75-F-P	1499161	DPCS-100-75-F-PA
		100	1498984	DPCS-100-100-F-P	1499155	DPCS-100-100-F-PA

Compact cylinders DPCS

Technical data – Double-acting

FESTO

Ordering data							
Type	Piston ∅ [mm]	Stroke [mm]	– Without position sensing			A – For position sensing	
			Part No.	Type		Part No.	Type
	Male piston rod thread						
	12	5	1496832	DPCS-12-5-P		1496872	DPCS-12-5-PA
		10	1496787	DPCS-12-10-P		1496887	DPCS-12-10-PA
		15	1496795	DPCS-12-15-P		1496881	DPCS-12-15-PA
		20	1496794	DPCS-12-20-P		1496880	DPCS-12-20-PA
		25	1496904	DPCS-12-25-P		1496874	DPCS-12-25-PA
		30	1496835	DPCS-12-30-P		1496917	DPCS-12-30-PA
	16	5	1484509	DPCS-16-5-P		1484372	DPCS-16-5-PA
		10	1484471	DPCS-16-10-P		1484368	DPCS-16-10-PA
		15	1484516	DPCS-16-15-P		1484339	DPCS-16-15-PA
		20	1484495	DPCS-16-20-P		1484401	DPCS-16-20-PA
		25	1484518	DPCS-16-25-P		1484383	DPCS-16-25-PA
		30	1484469	DPCS-16-30-P		1484365	DPCS-16-30-PA
	20	5	1446003	DPCS-20-5-P		1445866	DPCS-20-5-PA
		10	1446017	DPCS-20-10-P		1445882	DPCS-20-10-PA
		15	1446023	DPCS-20-15-P		1445906	DPCS-20-15-PA
		20	1446152	DPCS-20-20-P		1445899	DPCS-20-20-PA
		25	1446164	DPCS-20-25-P		1445863	DPCS-20-25-PA
		30	1446000	DPCS-20-30-P		1445889	DPCS-20-30-PA
		40	1446001	DPCS-20-40-P		1445879	DPCS-20-40-PA
		50	1446004	DPCS-20-50-P		1445873	DPCS-20-50-PA
	25	5	1409059	DPCS-25-5-P		1409265	DPCS-25-5-PA
		10	1409039	DPCS-25-10-P		1409110	DPCS-25-10-PA
		15	1409036	DPCS-25-15-P		1409120	DPCS-25-15-PA
		20	1409012	DPCS-25-20-P		1409131	DPCS-25-20-PA
		25	1409050	DPCS-25-25-P		1409270	DPCS-25-25-PA
		30	1409041	DPCS-25-30-P		1409151	DPCS-25-30-PA
		40	1409064	DPCS-25-40-P		1409116	DPCS-25-40-PA
		50	1409022	DPCS-25-50-P		1409268	DPCS-25-50-PA
	32	5	1401070	DPCS-32-5-P		1400995	DPCS-32-5-PA
		10	1401036	DPCS-32-10-P		1401029	DPCS-32-10-PA
		15	1401076	DPCS-32-15-P		1401011	DPCS-32-15-PA
		20	1401047	DPCS-32-20-P		1400998	DPCS-32-20-PA
		25	1401080	DPCS-32-25-P		1400983	DPCS-32-25-PA
		30	1401044	DPCS-32-30-P		1401019	DPCS-32-30-PA
		40	1401078	DPCS-32-40-P		1401022	DPCS-32-40-PA
		50	1401035	DPCS-32-50-P		1401032	DPCS-32-50-PA
		75	1401069	DPCS-32-75-P		1400997	DPCS-32-75-PA
		100	1401075	DPCS-32-100-P		1401030	DPCS-32-100-PA
	40	5	1809452	DPCS-40-5-P		1816905	DPCS-40-5-PA
		10	1380713	DPCS-40-10-P		1380759	DPCS-40-10-PA
		15	1380745	DPCS-40-15-P		1380757	DPCS-40-15-PA
		20	1380725	DPCS-40-20-P		1380835	DPCS-40-20-PA
		25	1380738	DPCS-40-25-P		1380834	DPCS-40-25-PA
		30	1380742	DPCS-40-30-P		1380838	DPCS-40-30-PA
		40	1380709	DPCS-40-40-P		1380830	DPCS-40-40-PA
		50	1380707	DPCS-40-50-P		1380822	DPCS-40-50-PA
		75	1380719	DPCS-40-75-P		1380836	DPCS-40-75-PA
		100	1380711	DPCS-40-100-P		1380754	DPCS-40-100-PA

Compact cylinders DPCS

FESTO

Ordering data – Double-acting

Ordering table

Size			12	16	20	25	32	40	50	63	80	100	Conditions	Code		Enter code
M	Module No.		**576882**	**576883**	**576884**	**576885**	**576886**	**576887**	**576888**	**576889**	**576890**	**576891**				
	Function		Compact cylinder											**DPCS**		DPCS
	Piston ∅	[mm]	12	16	20	25	32	40	50	63	80	100		-...		
	Stroke	5 mm												-...		
		10 mm														
		15 mm														
		20 mm														
		25 mm														
		30 mm														
		35 mm														
		40 mm														
		45 mm														
		50 mm														
		75 mm														
		100 mm														
		[mm]	1 ... 30		1 ... 50		1 ... 100									
O	Piston rod type		Piston rod at one end													
			Through piston rod											**T**		
	Piston rod thread type		Male thread													
			Female thread											**F**		
M	Cushioning		Elastic cushioning rings/pads at both ends											**-P**		-P
O	Position sensing		None													
			Via proximity sensor											**A**		
	Type of mounting		Through-hole													
			Female thread										1	**-F**		

1 **F** Not with through piston rod T

Transfer order code

	DPCS	–		–		–				–	**P**		–			

Compact cylinders DPCS-S

Type codes and peripherals overview – Single-acting

Type codes

DPCS – 25 – 100 – S F – P A – F

Type	
DPCS	Compact cylinder

Piston ∅ [mm]

Stroke [mm]

Function	
S	Single-acting, pushing

Piston rod thread type	
–	Male thread
F	Female thread

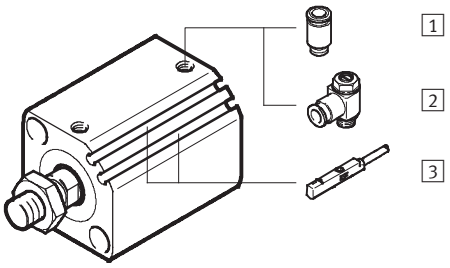
Cushioning	
P	Elastic cushioning rings/pads at both ends

Position sensing	
–	Without proximity sensor
A	Via proximity sensor

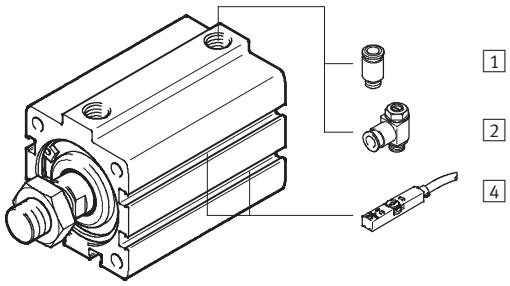
Type of mounting	
–	Through-hole
F	Female thread

Peripherals overview

Piston ∅ 12 ... 25



Piston ∅ 32 ... 100



Mounting attachments and accessories

	Brief description	➔ Page/Internet
1 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	quick star
2 One-way flow control valve GRLA/GRLZ	For regulating speed	24
3 Proximity sensor SMT-10	Can be integrated in the cylinder profile barrel	24
4 Proximity sensor SMT-8		

Compact cylinders DPCS-S

Technical data – Single-acting

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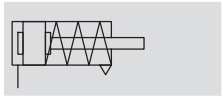
Function



-N- Diameter
12 ... 100 mm

-T- Stroke length
5 ... 20 mm

General technical data								
Piston ∅		12	16	20	25	32	40	50
Pneumatic connection		M5	M5	M5	M5	M5[1)] G⅛	G⅛	G¼
Stroke	[mm]	5 ... 10						10 ... 20
Design		Piston						
		Piston rod						
		Cylinder barrel						
Mode of operation		Single-acting						
Piston rod thread type		Female thread						
		Male thread						
Cushioning		Elastic cushioning rings/pads at both ends						
Position sensing		Via proximity sensor						
Type of mounting		Via through-hole						
		Via female thread						
Mounting position		Any						

1) In combination with drive without position sensing and stroke ≤ 5 mm

Operating and environmental conditions								
Piston ∅		12	16	20	25	32	40	50
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Operating pressure	[bar]	1.5 ... 10		1 ... 10				
Ambient temperature	[°C]	–20 ... +80						
Corrosion resistance class CRC[1)]		2						

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Compact cylinders DPCS-S

Technical data – Single-acting

Forces [N] and impact energy [J]							
Piston ∅	12	16	20	25	32	40	50
Theoretical force at 6 bar, advancing	55	112	172	273	456	700	1,095
Max. impact energy in the end positions	0.06	0.10	0.14	0.18	0.26	0.36	0.60

Permissible impact velocity:

$$v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{dead} + m_{load}}}$$

Maximum permissible load:

$$m_{load} = \frac{2 \times E_{perm.}}{v^2} - m_{dead}$$

$v_{perm.}$ Permissible impact velocity
$E_{perm.}$ Maximum impact energy
m_{dead} Moving load (drive)
m_{load} Moving effective load

Note

These specifications represent the maximum values that can be achieved. Note the maximum permissible impact energy.

Weight [g]							
Piston ∅	12	16	20	25	32	40	50
DPCS-...S-P – Without position sensing							
Product weight with 0 mm stroke	26	40	69	109	163	223	332
Additional weight per 10 mm stroke	13	17	27	33	43	49	77
Moving load with 0 mm stroke	8	15	25	46	94	95	133
Additional load per 10 mm stroke	2	4	6	9	16	16	24
DPCS-...S-PA – With position sensing							
Product weight with 0 mm stroke	42	64	104	146	208	307	429
Additional weight per 10 mm stroke	13	17	27	33	43	49	77
Moving load with 0 mm stroke	11	17	30	51	101	130	150
Additional load per 10 mm stroke	2	4	6	9	16	16	24

Compact cylinders DPCS-S

Technical data – Single-acting

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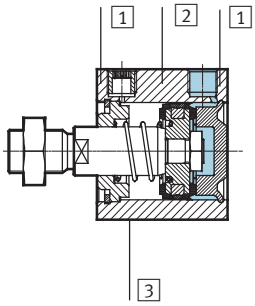
Materials

Sectional view



Compact cylinder		
1	Cover	Wrought aluminium alloy
2	Cylinder barrel	Wrought aluminium alloy
3	Piston rod	
	∅ 12 ... 40	High-alloy stainless steel
	∅ 50 ... 100	High-alloy steel
–	Seals	TPE-U(PU), NBR
	Note on materials	RoHS-compliant

Compact cylinders DPCS-S

Technical data – Single-acting

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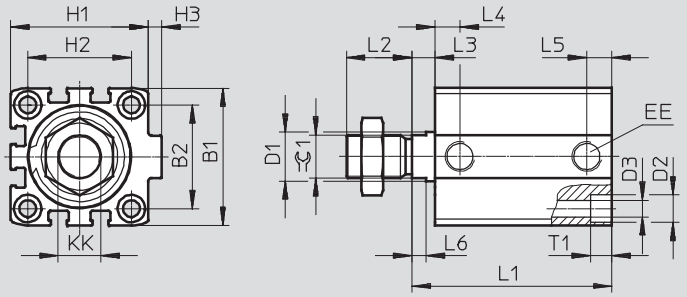
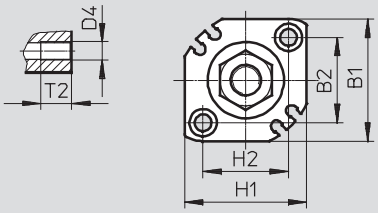
Dimensions Download CAD Data ➔ **www.festo.com/us/cad**

DPCS-S – With male thread



DPCS-...-F ∅ 12 ... 25



∅ [mm]	B1 ±0.3	B2 ±0.2	D1 ∅ h8	KK	EE	D2 ∅ F9	D3 ∅ H13	D4	H1 ±0.3	H2 ±0.2	H3 ±0.2	L2 −0.5	L3 +1.3	L4 +0.3	L5 +0.3	L6 −0.15	T1 ±0.2	T2 min	⫧1 h13
Piston rod at one end																			
12	25	15.5	6	M5	M5	6.5	3.5	M4	25	15.5	–	10.5	3.5	5.2	5.2	3.5	3.5	7	5
16	29	20	8	M6	M5	6.5	3.5	M4	29	20	–	12	3.5	5.2	5.2	3.5	3.5	7	6
20	36	25.5	10	M8	M5	9	5.5	M6	36	25.5	–	14	4.5	5.2	5.2	4.5	7	10	8
25	40	28	12	M10x1.25	M5	9	5.5	M6	40	28	–	17.5	5	5.2	5.2	5	7	10	10
32	45	34	16	M14x1.5	G⅛[1]	9	5.5	M6	45	34	4.5	21.5	7	8.2	8.2[1]	4.7	7	16	14
40	52	40	16	M14x1.5	G⅛	9	5.5	M6	52	40	5	21.5	7	9.9[2]	8.2	4.7	7	16	14
50	64	50	20	M18x1.5	G¼	11	6.6	M8	64	50	7	25.5	8	10.2	10.2	7	8	20	17

1) In combination with drive without position sensing and stroke ≤ 5 mm: EE = M5, L5 = 5.5 mm

2) In combination with drive without position sensing and stroke ≤ 5 mm: L4 = $9.9_{-0.3}$ mm

	L1		
Stroke range ∅ [mm]	0 ... 5	6 ... 10	16 ... 20
Without position sensing			
12	25.5	30.5	–
16	27	32	–
20	29	34	–
25	32.5	37.5	–
32	35	40	–
40	41.5	46.5	–
50	–	48.5	58.5
With position sensing			
12	36.5	41.5	–
16	39	44	–
20	41	46	–
25	42.5	47.5	–
32	45	50	–
40	51.5	56.5	–
50	–	58.5	68.5

Compact cylinders DPCS-S

Technical data – Single-acting

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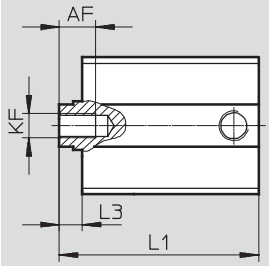
Dimensions Download CAD Data ➔ **www.festo.com/us/cad**

DPCS-SF -– With female thread



Basic dimensions ➔ 20

∅ [mm]	KF	L3 +1.3	AF min
12	M3	3.5	6
16	M4	3.5	8
20	M5	4.5	7
25	M6	5	12
32	M8	7	12
40	M8	7	12
50	M10	8	14
63	M10	8	14
80	M16	10	20
100	M20	12	25

	L1		
Stroke range	0 ... 5	6 ... 10	16 ... 20
∅ [mm]			
Without position sensing			
12	25.5	30.5	–
16	27	32	–
20	29	34	–
25	32.5	37.5	–
32	35	40	–
40	41.5	46.5	–
50	–	48.5	58.5
With position sensing			
12	36.5	41.5	–
16	39	44	–
20	41	46	–
25	42.5	47.5	–
32	45	50	–
40	51.5	56.5	–
50	–	58.5	68.5

Compact cylinders DPCS-S

Technical data – Single-acting

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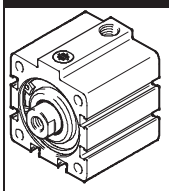
Ordering data							
Type	Piston ∅ [mm]	Stroke [mm]	– Without position sensing			A – For position sensing	
			Part No.	Type		Part No.	Type
	Female piston rod thread						
	12	5	**1497103**	**DPCS-12-5-SF-P**		**1497088**	**DPCS-12-5-SF-PA**
						1497069	**DPCS-12-5-SF-PA-F**[1]
		10	**1497082**	**DPCS-12-10-SF-P**		**1497060**	**DPCS-12-10-SF-PA**
						1497079	**DPCS-12-10-SF-PA-F**[1]
	16	5	**1484183**	**DPCS-16-5-SF-P**		**1484175**	**DPCS-16-5-SF-PA**
		10	**1484204**	**DPCS-16-10-SF-P**		**1484177**	**DPCS-16-10-SF-PA**
	20	5	**1446062**	**DPCS-20-5-SF-P**		**1446060**	**DPCS-20-5-SF-PA**
		10	**1446058**	**DPCS-20-10-SF-P**		**1446051**	**DPCS-20-10-SF-PA**
	25	5	**1409124**	**DPCS-25-5-SF-P**		**1409128**	**DPCS-25-5-SF-PA**
		10	**1409093**	**DPCS-25-10-SF-P**		**1409111**	**DPCS-25-10-SF-PA**
	32	5	**1400988**	**DPCS-32-5-SF-P**		**1400973**	**DPCS-32-5-SF-PA**
		10	**1400991**	**DPCS-32-10-SF-P**		**1400975**	**DPCS-32-10-SF-PA**
	40	5	**1386461**	**DPCS-40-5-SF-P**		**1386462**	**DPCS-40-5-SF-PA**
		10	**1386463**	**DPCS-40-10-SF-P**		**1386460**	**DPCS-40-10-SF-PA**
	50	10	**1416583**	**DPCS-50-10-SF-P**		**1416567**	**DPCS-50-10-SF-PA**
		20	**1416580**	**DPCS-50-20-SF-P**		**1416564**	**DPCS-50-20-SF-PA**

1) With mounting via female thread

Compact cylinders DPCS-S

Ordering data – Single-acting

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Ordering table												
Size			12	16	20	25	32	40	50	Conditions	Code	Enter code
M	Module No.		576882	576883	576884	576885	576886	576887	576888			
	Function		Compact cylinder								DPCS	DPCS
	Piston ∅	[mm]	12	16	20	25	32	40	50		-...	
	Stroke	5 mm									-...	
		10 mm										
		20 mm										
O	Function		Single-acting								-S	-S
	Piston rod thread		Male thread									
			Female thread								F	
M	Cushioning		Elastic cushioning rings/pads at both ends								-P	-P
O	Position sensing		None									
			Via proximity sensor								A	
	Type of mounting		Through-hole									
			Female thread								-F	

Transfer order code

	DPCS	–		–		–				–	P		–		

Compact cylinders DPCS

Accessories

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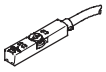
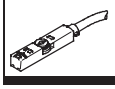
Proximity sensors for piston ∅ 12 … 25

Ordering data – Proximity sensors for C-slot, magneto-resistive — Technical data ➔ Internet: smt

	Type of mounting	Electrical connection, connection direction	Switching output	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above	Plug M8x1, 3-pin, in-line	PNP	0.3	**551375**	**SMT-10M-PS-24V-E-0,3-L-M8D**
		Cable, 3-wire, in-line		2.5	**551373**	**SMT-10M-PS-24V-E-2,5-L-OE**

Proximity sensors for piston ∅ 32 … 100

Ordering data – Proximity sensors for T-slot, magneto-resistive — Technical data ➔ Internet: smt

	Type of mounting	Electrical connection, connection direction	Switching output	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, short design	Cable, 3-wire, in-line	PNP	2.5	**574335**	**SMT-8M-A-PS-24V-E-2,5-OE**
		Plug M8x1, 3-pin, in-line		0.3	**574334**	**SMT-8M-A-PS-24V-E-0,3-M8D**
		Plug M12x1, 3-pin, in-line		0.3	**574337**	**SMT-8M-A-PS-24V-E-0,3-M12**
		Cable, 3-wire, in-line	NPN	2.5	**574338**	**SMT-8M-A-NS-24V-E-2,5-OE**
		Plug M8x1, 3-pin, in-line		0.3	**574339**	**SMT-8M-A-NS-24V-E-0,3-M8D**
N/C contact						
	Insertable in the slot from above, short design	Cable, 3-wire, in-line	PNP	7.5	**574340**	**SMT-8M-A-PO-24V-E-7,5-OE**

Ordering data – One-way flow control valves — Technical data ➔ Internet: grl

	Connection		Material	Part No.	Type
	Thread	For tubing O.D.			
For exhaust air					
	M5	3	Metal design	**193137**	**GRLA-M5-QS-3-D**
		4		**193138**	**GRLA-M5-QS-4-D**
		6		**193139**	**GRLA-M5-QS-6-D**
	G1/8	3		**193142**	**GRLA-1/8-QS-3-D**
		4		**193143**	**GRLA-1/8-QS-4-D**
		6		**193144**	**GRLA-1/8-QS-6-D**
		8		**193145**	**GRLA-1/8-QS-8-D**
	G1/4	6		**193146**	**GRLA-1/4-QS-6-D**
		8		**193147**	**GRLA-1/4-QS-8-D**
		10		**193148**	**GRLA-1/4-QS-10-D**
	G3/8	6		**193149**	**GRLA-3/8-QS-6-D**
		8		**193150**	**GRLA-3/8-QS-8-D**
		10		**193151**	**GRLA-3/8-QS-10-D**
For supply air					
	M5	3	Metal design	**193153**	**GRLZ-M5-QS-3-D**
		4		**193154**	**GRLZ-M5-QS-4-D**
		6		**193155**	**GRLZ-M5-QS-6-D**
	G1/8	3		**193156**	**GRLZ-1/8-QS-3-D**
		4		**193157**	**GRLZ-1/8-QS-4-D**
		6		**193158**	**GRLZ-1/8-QS-6-D**
		8		**193159**	**GRLZ-1/8-QS-8-D**

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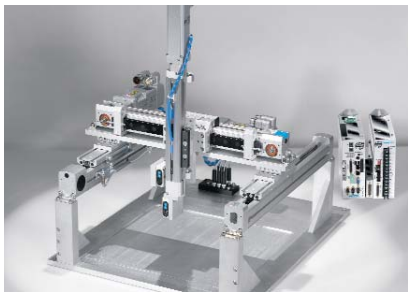

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