

Type codes

001	Series	
DPDM	Cylinder, multimount	

002	Protection against rotation	
	None	
Q	With protection against rotation	

003	Piston diameter [mm]	
6	6	
10	10	
16	16	
20	20	
25	25	
32	32	

004	Stroke [mm]	
5	5	
10	10	
15	15	
20	20	
25	25	
30	30	
40	40	
50	50	

005	Function	
	Double-acting	
P	Single-acting, pulling	
S	Single-acting, pushing	

006	Piston rod type	
	At one end	

007	Cushioning	
P	Elastic cushioning rings/plates on both sides	

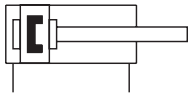
008	Position sensing	
A	For proximity sensor	

009	Temperature range	
	Standard	
T1	Heat-resistant seals max. 120°C	

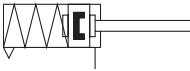
010	Special material properties	
	None	
F1A	Recommended for production facilities for the manufacture of lithium-ion batteries	

Data sheet

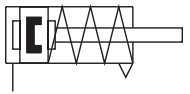
Function
DPDM



DPDM-...-P



DPDM-...-S



- $\varnothing$ - Diameter
6 ... 32 mm
- l - Stroke length
5 ... 50 mm



General technical data

Piston diameter	6	10	16	20	25	32
Design	Piston					
	Piston rod					
	Profile barrel					
Mode of operation	Double- and single-acting					
Pneumatic connection	M5	M5	M5	M5	M5	G1/8
Piston rod thread	M3	M4	M6	M8	M10x1.25	M10x1.25
Stroke						
DPDM-...	5, 10, 15, 20, 25, 30		5, 10, 15, 20, 25, 30, 40, 50			
DPDM-...S/-P	5, 10, 15					
Cushioning ¹⁾	Elastic cushioning rings/plates at both ends					
Position sensing	Via proximity switch					
Type of mounting	With through-hole					
	Via female thread					
Mounting position	Optional					

1) With piston diameter 6 in combination with the function "Single-acting, pushing", there is only cushioning at the bearing cap.

Operating and environmental conditions

Piston diameter		6	10	16	20	25	32
Operating pressure							
DPDM-...	[MPa]	0.18 ... 0.8	0.15 ... 0.8			0.1 ... 0.8	
	[bar]	1.8 ... 8	1.5 ... 8			1 ... 8	
DPDM-Q-...	[MPa]	0.2 ... 0.8	0.15 ... 0.8			0.1 ... 0.8	
	[bar]	2 ... 8	1.5 ... 8			1 ... 8	
DPDM-...S/-P	[MPa]	0.25 ... 0.8	0.2 ... 0.8				0.15 ... 0.8
	[bar]	2.5 ... 8	2 ... 8				1.5 ... 8
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)					
Ambient temperature ¹⁾							
DPDM-...	[°C]	-10 ... +80					
DPDM-...T1	[°C]	-	0 ... +120				
Corrosion resistance CRC ²⁾							
DPDM-...	1 - Low corrosion stress ³⁾						
	-			2 - Moderate corrosion stress ³⁾			
DPDM-...F1A	0 - No corrosion stress						

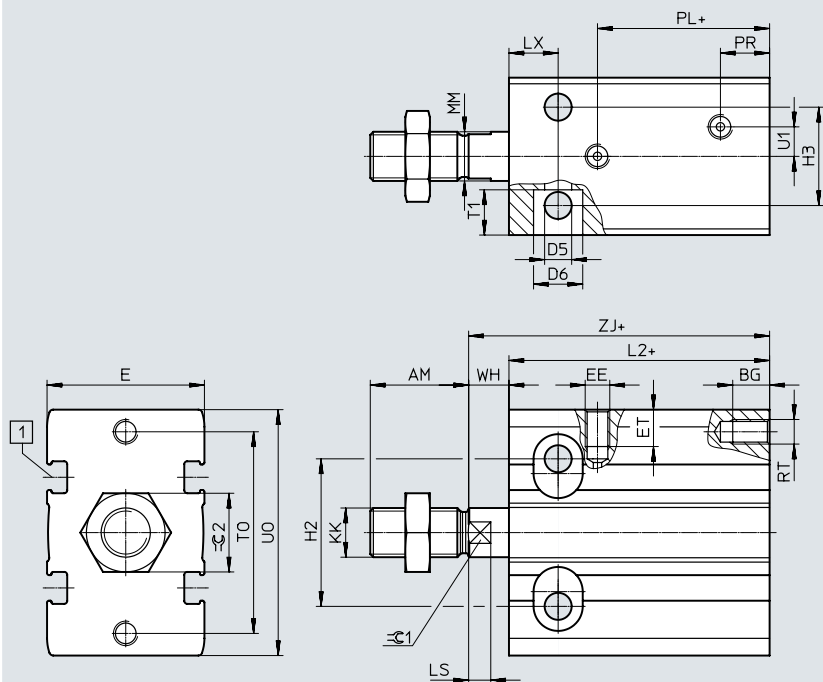
1) Note operating range of proximity switches.

2) More information www.festo.com/x/topic/kbk

3) CRC1 or CRC2, depending on the configuration

Data sheet

Dimensions

Download CAD data → www.festo.com

[1] Sensor slot for proximity switch:
 Ø 6 ... 20: SMT-10
 Ø 25/32: SMT/SME-8

Ø	AM	BG	D5 Ø	D6	E	EE	ET	H2
[mm]					+0.3			
6	7	5	3.2	6	13	M5	4	10
10	10	5	3.2	6	15	M5	4.5	13
16	12	6	4.3	7.5	20	M5	4.5	19
20	16	7.5	5.5	10	26	M5	6	24
25	20	7.5	5.5	10	32	M5	7.5	30
32	20	9	6.6	11	40	G1/8	8.5	40

Ø	H3	KK	L2	LS	LX	MM Ø	PL	PR
[mm]				-0.1				
6	7	M3	33	-	7	3	17.5	9.5
10	9	M4	35	-	7	4	19.5	9.5
16	13	M6	40	3	7	6	24.1	11
20	16	M8	46	4	9	8	26.5	11
25	20	M10x1.25	48	4.5	10	10	30	10
32	24	M10x1.25	48	4.5	11	12	27	11

Ø	RT	T1	T0	U1	U0	WH ¹⁾	ZJ	≈G1	≈G2
[mm]								h13	
6	M3	5	17	-	22	2	35	-	5.5
10	M3	5	19	-	24	2	37	-	7
16	M4	6	27	-	32	5	45	5	10
20	M5	8.2	33	6	40	6	52	7	13
25	M5	9.2	41	6	50	7	55	9	17
32	M6	12	52	9	62	8	56	10	17

1) WH is measured when the piston rod is in the end position

Data sheet

Ordering data – Double-acting						
Type	Piston diameter [mm]	Stroke [mm]	Without protection against rotation		With protection against rotation	
			Part no.	Type	Part no.	Type
	6	5	4830900	DPDM-6-5-PA	4830961	DPDM-Q-6-5-PA
		10	4830901	DPDM-6-10-PA	4830962	DPDM-Q-6-10-PA
		15	4830902	DPDM-6-15-PA	4830963	DPDM-Q-6-15-PA
		20	4830903	DPDM-6-20-PA	4830964	DPDM-Q-6-20-PA
		25	4830904	DPDM-6-25-PA	4830965	DPDM-Q-6-25-PA
		30	4830905	DPDM-6-30-PA	4830966	DPDM-Q-6-30-PA
	10	5	4831868	DPDM-10-5-PA	4832286	DPDM-Q-10-5-PA
		10	4831869	DPDM-10-10-PA	4832288	DPDM-Q-10-10-PA
		15	4831870	DPDM-10-15-PA	4832290	DPDM-Q-10-15-PA
		20	4831872	DPDM-10-20-PA	4832292	DPDM-Q-10-20-PA
		25	4831873	DPDM-10-25-PA	4832294	DPDM-Q-10-25-PA
		30	4831874	DPDM-10-30-PA	4832296	DPDM-Q-10-30-PA
	16	5	4833185	DPDM-16-5-PA	4834260	DPDM-Q-16-5-PA
		10	4833186	DPDM-16-10-PA	4834261	DPDM-Q-16-10-PA
		15	4833187	DPDM-16-15-PA	4834262	DPDM-Q-16-15-PA
		20	4833188	DPDM-16-20-PA	4834263	DPDM-Q-16-20-PA
		25	4833189	DPDM-16-25-PA	4834264	DPDM-Q-16-25-PA
		30	4833190	DPDM-16-30-PA	4834265	DPDM-Q-16-30-PA
		40	4833191	DPDM-16-40-PA	4834266	DPDM-Q-16-40-PA
		40	4833192	DPDM-16-50-PA	4834267	DPDM-Q-16-50-PA
	20	5	4840799	DPDM-20-5-PA	4840813	DPDM-Q-20-5-PA
		10	4840800	DPDM-20-10-PA	4840814	DPDM-Q-20-10-PA
		15	4840801	DPDM-20-15-PA	4840815	DPDM-Q-20-15-PA
		20	4840802	DPDM-20-20-PA	4840816	DPDM-Q-20-20-PA
		25	4840803	DPDM-20-25-PA	4840817	DPDM-Q-20-25-PA
		30	4840804	DPDM-20-30-PA	4840818	DPDM-Q-20-30-PA
		40	4840805	DPDM-20-40-PA	4840819	DPDM-Q-20-40-PA
		50	4840806	DPDM-20-50-PA	4840820	DPDM-Q-20-50-PA
	25	5	4829570	DPDM-25-5-PA	4840824	DPDM-Q-25-5-PA
		10	4829571	DPDM-25-10-PA	4840825	DPDM-Q-25-10-PA
		15	4829572	DPDM-25-15-PA	4840826	DPDM-Q-25-15-PA
		20	4829573	DPDM-25-20-PA	4840827	DPDM-Q-25-20-PA
		25	4829574	DPDM-25-25-PA	4840828	DPDM-Q-25-25-PA
		30	4829575	DPDM-25-30-PA	4840829	DPDM-Q-25-30-PA
		40	4829576	DPDM-25-40-PA	4840830	DPDM-Q-25-40-PA
		50	4829577	DPDM-25-50-PA	4840831	DPDM-Q-25-50-PA
	32	5	4828435	DPDM-32-5-PA	4828465	DPDM-Q-32-5-PA
		10	4828436	DPDM-32-10-PA	4828466	DPDM-Q-32-10-PA
		15	4828437	DPDM-32-15-PA	4828467	DPDM-Q-32-15-PA
		20	4828438	DPDM-32-20-PA	4828468	DPDM-Q-32-20-PA
		25	4828439	DPDM-32-25-PA	4828469	DPDM-Q-32-25-PA
		30	4828440	DPDM-32-30-PA	4828470	DPDM-Q-32-30-PA
		40	4828441	DPDM-32-40-PA	4828471	DPDM-Q-32-40-PA
		50	4828442	DPDM-32-50-PA	4828472	DPDM-Q-32-50-PA