Series ICS-D2

Brochure



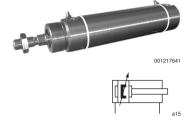
Piston rod cylinders \rightarrow Round cylinders **Series ICS-D2**

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Round cylinder, Series ICS-D2-M00

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rod Stainless steel Scraper Polyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	507	792	1237	1964	3167
Cushioning leng	th	[mm]	11.5	14	17	16	19
Cushioning ener	gy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
+10 mm stroke		[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting piston force		[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	gth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

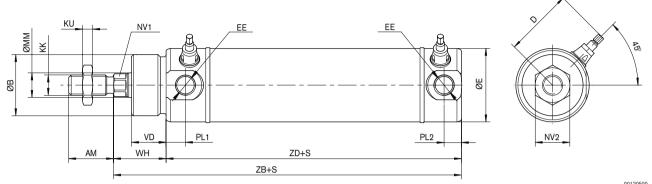
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Round cylinder, Series ICS-D2-M00

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected

basic version, M00, Piston Ø 32 - 100



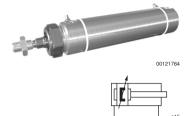
S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	ØВ	D 1)	ØE	EE	KK	KU	MM g8	NV1	NV2	PL1	PL2	VD
		e11											
32	22	30	34	36	G 1/8	M10x1,25	5	12	10	17	9.5	8.5	17
40	24	35	38	44	G 1/4	M12x1,25	6	16	13	18	11	11	25
50	32	40	50	54	G 1/4	M16x1,5	8	20	17	24	12	12	25
63	32	45	57	68	G 3/8	M16x1,5	8	20	17	24	14	13.5	30
80	40	55	70.5	86	G 3/8	M20x1,5	10	25	22	30	14	14	30
100	40	65	80.5	106	G 1/2	M20x1,5	10	25	22	30	20	19	30
Ø	WH	ZB	ZD										
32	26	121	95										
40	35	143	108										
50	35	150	115										
63	40	165	125										
80	42	184	142										
100	42	198	156										

¹⁾ max.

Round cylinder, Series ICS-D2-MR3

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► cylinder outer thread with mounting nut



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for cylinder mountingStainless steelNut for piston rodStainless steelScraperPolyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending pisto	n force	[N]	507	792	1237	1964	3167
Cushioning leng	gth	[mm]	11.5	14	17	16	19
Cushioning ene	rgy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
+10 mm stroke		[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting piston force		[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	jth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

Configurable product



Round cylinder, Series ICS-D2-MR3

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ cylinder outer thread with mounting nut

Threaded neck with nut, MR3, Piston Ø 32 - 100

S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	BE	D 1)	ØE	EC	EE	KK	KU	KW	MM g8	NV1	NV2	NV3
32	22	M30x1,5	34	36	36	G 1/8	M10x1,25	5	10	12	10	17	34
40	24	M35x1,5	38	44	45	G 1/4	M12x1,25	6	10	16	13	18	42
50	32	M40x1,5	50	54	52	G 1/4	M16x1,5	8	10	20	17	24	48
63	32	M45x1,5	57	68	58	G 3/8	M16x1,5	8	12	20	17	24	54
80	40	M55x1,5	70.5	86	80	G 3/8	M20x1,5	10	13	25	22	30	72
100	40	M65x1,5	80.5	106	90	G 1/2	M20x1,5	10	15	25	22	30	85
		51.0	1/2						1	1			

Ø	PL1	PL2	VD	WH	ZB	ZD				
32	9.5	8.5	17	26	121	95				
40	11	11	25	35	143	108				
50	12	12	25	35	150	115				
63	14	13.5	30	40	165	125				
80	14	14	30	42	184	142				
100	20	19	30	42	198	156				

¹⁾ max.

Round cylinder, Series ICS-D2-MP4

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with rear end cover bushing



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rodStainless steelScraperPolyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	507	792	1237	1964	3167
Cushioning leng	jth	[mm]	11.5	14	17	16	19
Cushioning ene	rgy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
	+10 mm stroke	[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting piston force		[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	gth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

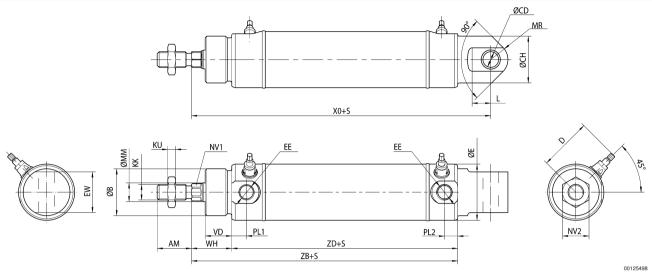
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Round cylinder, Series ICS-D2-MP4

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosionprotected ▶ with rear end cover bushing

Rear end cover bushing (ISO 6431), MP4, Piston Ø 32 - 100



S = stroke, tolerance Ø 32–50 mm = +2/-0, Ø 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	Ø B e11	Ø CD H10	Ø CH	D 1)	ØE	EE	EW	KK	KU	L 2)	MM g8	MR
32	22	30	10	30	34	36	G 1/8	26	M10x1,25	5	13	12	11
40	24	35	12	33	38	44	G 1/4	28	M12x1,25	6	12	16	13
50	32	40	12	36	50	54	G 1/4	32	M16x1,5	8	13	20	13
63	32	45	16	45	57	68	G 3/8	40	M16x1,5	8	15	20	17
Ø	NV1	NV2	PL1	PL2	VD	WH	X	O Z	B ZD				
32	10	17	9.5	8.5	17	26	142 ±1,	3 12	1 95				
					ı	_	,	-	-				
40	13	18	11	11	25	35	160 ±1,		3 108				
40 50	13 17	18 24	11 12	11 12	25 25	35 35	· '	3 14					

¹⁾ max.

²⁾ min.

Round cylinder, Series ICS-D2-MP5

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with rear eye with spherical bearing



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rodStainless steelScraperPolyethyleneSpherical bearingStainless steel

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting pi	ston force	[N]	435	665	1039	1766	2857
Extending pis	ston force	[N]	507	792	1237	1964	3167
Cushioning le	ength	[mm]	11.5	14	17	16	19
Cushioning e	energy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
	+10 mm stroke	[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

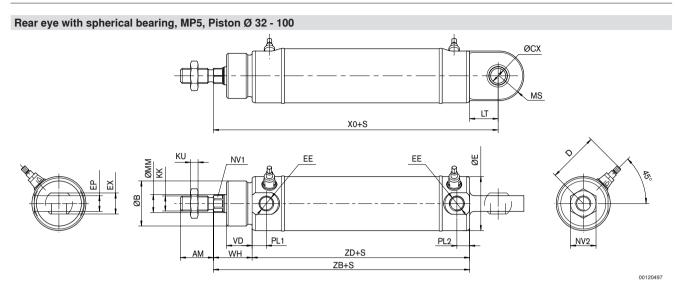
Piston Ø		[mm]	100		
Retracting pisto	n force	[N]	4639		
Extending pisto	n force	[N]	4948		
Cushioning leng	jth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

Configurable product



Round cylinder, Series ICS-D2-MP5

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with rear eye with spherical bearing



S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	Ø B e11	Ø CX H7	D 1)	ØE	EE	EP	EX	KK	KU	LT	MM g8	MS
32	22	30	10	34	36	G 1/8	10.5	14	M10x1,25	5	21	12	16.5
40	24	35	12	38	44	G 1/4	12	16	M12x1,25	6	17	16	19
50	32	40	12	50	54	G 1/4	12	16	M16x1,5	8	20.5	20	24.5
63	32	45	16	57	68	G 3/8	15	21	M16x1,5	8	25.5	20	30
80	40	55	16	70.5	86	G 3/8	15	21	M20x1,5	10	26.5	25	35
100	40	65	20	80.5	106	G 1/2	18	25	M20x1,5	10	32	25	35
Ø	NV1	NV2	PL1	PL2	VD	WH	XC) Z	B ZD				
32	10	17	9.5	8.5	17	26	142 ±1,	3 12	1 95				
40	13	18	11	11	25	35	160 ±1,	3 14	3 108				
50	17	24	12	12	25	35	170 ±1,	3 15	0 115				
63	17	24	14	13.5	30	40	190 ±1,	6 16	5 125				
80	22	30	14	14	30	42	210 ±1,	6 18	4 142				
100	22	30	20	19	30	42	230 ±1,	6 19	8 156				

¹⁾ max.

Round cylinder, Series ICS-D2-MT1

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with mounting bolts in front end cover MT1



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rodStainless steelMounting boltsStainless steelScraperPolyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting pis	ston force	[N]	435	665	1039	1766	2857
Extending pis	ton force	[N]	507	792	1237	1964	3167
Cushioning le	ength	[mm]	11.5	14	17	16	19
Cushioning e	nergy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
	+10 mm stroke	[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting pisto	n force	[N]	4639		
Extending pisto	n force	[N]	4948		
Cushioning leng	jth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

Configurable product



Round cylinder, Series ICS-D2-MT1

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosionprotected ▶ with mounting bolts in front end cover MT1

Mounting bolts in front end cover MT1, Piston Ø 32 - 100 EE NV1 MMØ ØE 5 ۷D AM WH PL1 PL2 ZD+S NV2 ZB+S

S = stroke, tolerance Ø 32–50 mm = +2/-0, Ø 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	Ø B e11	D 1)	ØE	E	■	KK	KU	MM g8	NV1	NV2	PL1	PL2	Ø TD h9
32	22	30	34	36	G 1/8	3 M10	x1,25	5	12	10	17	9.5	8.5	12
40	24	35	38	44	G 1/4	4 M12	x1,25	6	16	13	18	11	11	12
50	32	40	50	54	G 1/4	4 M1	6x1,5	8	20	17	24	12	12	16
63	32	45	57	68	G 3/8	3 M1	6x1,5	8	20	17	24	14	13.5	16
80	40	55	70.5	86	G 3/8	8 M2	0x1,5	10	25	22	30	14	14	16
100	40	65	80.5	106	G 1/2	2 M2	0x1,5	10	25	22	30	20	19	20
Ø	TL	UT	VD	WH	XG	ZB	ZC	ו						
32	17	67	17	26	36	121	95	5						
40	17	74	25	35	47.5	143	108	8						
50	20	89	25	35	49.5	150	115	5						
63	24	109	30	40	55.5	165	125	5						
80	27	132	30	42	62	184	142	2						

1) max.

100

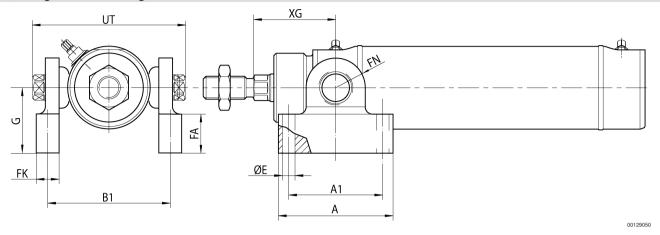
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Round cylinder, Series ICS-D2-MT1

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting bolts in front end cover MT1

Mounting bolts with bearing blocks in front end cover F12

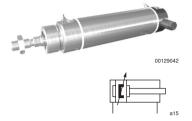


Ø	Α	A1	B1	ØE	FA	FK	FN	G	XG	UT		
32	50	41	53.5	5.5	17	10	13	28.5	36	67		
40	55	46	58.5	5.5	17	10	15.5	38	47.5	74		
50	64	53	71.5	6.5	18.5	12	17.5	38	49.5	89		
63	66	56	89.5	6.5	18.5	12	19	46.5	55.5	109		
80	82	72	106.5	6.5	18.5	12	26	50.5	62	132		
100	108	88	127	9	22	16	26	65	63	164		

Max. continous temperature 85 °C (185 °F). Peak temperature of 150 °C (300 °F). Higher temperatures on request.

Round cylinder, Series ICS-D2-MT2

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting bolts in rear end cover MT2



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rodStainless steelMounting boltsStainless steelScraperPolyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- \blacksquare Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting pi	ston force	[N]	435	665	1039	1766	2857
Extending pis	ston force	[N]	507	792	1237	1964	3167
Cushioning le	ength	[mm]	11.5	14	17	16	19
Cushioning e	energy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
	+10 mm stroke	[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting pisto	n force	[N]	4639		
Extending pisto	n force	[N]	4948		
Cushioning leng	gth	[mm]	22		
Cushioning ene	ergy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
	+10 mm stroke	[kg]	0.135		
Stroke max.		[mm]	1500		

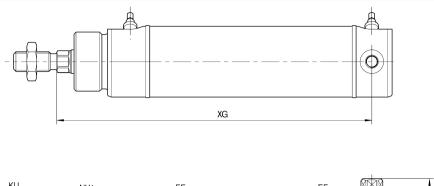
Configurable product

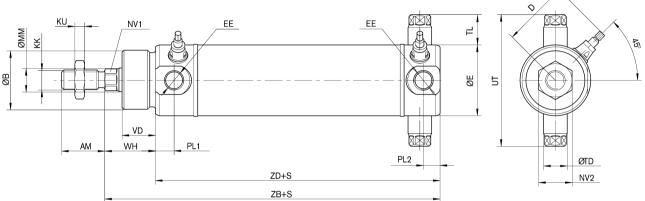


Round cylinder, Series ICS-D2-MT2

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting bolts in rear end cover MT2

Mounting bolts in rear end cover MT2, Piston Ø 32 - 100





S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

00129049

Ø	АМ	Ø B e11	D 1)	ØE	EE	KK	KU	MM g8	NV1	NV2	PL1	PL2	Ø TD h9
32	22	30	34	36	G 1/8	M10x1,25	5	12	10	17	9.5	8.5	12
40	24	35	38	44	G 1/4	M12x1,25	6	16	13	18	11	11	12
50	32	40	50	54	G 1/4	M16x1,5	8	20	17	24	12	12	16
63	32	45	57	68	G 3/8	M16x1,5	8	20	17	24	14	13.5	16
80	40	55	70.5	86	G 3/8	M20x1,5	10	25	22	30	14	14	16
100	40	65	80.5	106	G 1/2	M20x1,5	10	25	22	30	20	19	20
Ø	TL	UT	VD	WH	XG	ZB	ZD						

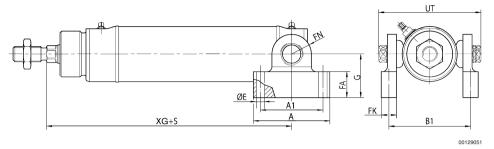
Ø	TL	UT	VD	WH	XG	ZB	ZD				
32	17	67	17	26	110.5	121	95				
40	17	74	25	35	129	143	108				
50	20	89	25	35	134.5	150	115				
63	24	109	30	40	149.5	165	125				
80	27	132	30	42	164	184	142				
100	32	164	30	42	177	198	156				

¹⁾ max.

Round cylinder, Series ICS-D2-MT2

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting bolts in rear end cover MT2

Mounting bolts with bearing blocks in rear end cover R12



S = stroke

Ø	Α	A1	B1	ØE	FA	FK	FN	G	XG	UT		
32	50	41	53.5	5.5	17	10	13	28.5	110.5	67		
40	55	46	58.5	5.5	17	10	15.5	38	129	74		
50	64	53	71.5	6.5	18.5	12	17.5	38	134.5	89		
63	66	56	89.5	6.5	18.5	12	19	46.5	149.5	109		
80	82	72	106.5	6.5	18.5	12	26	50.5	164	132		
100	108	88	127	9	22	16	26	65	177	164		

Max. continous temperature 85 °C (185 °F). Peak temperature of 150 °C (300 °F). Higher temperatures on request.

Round cylinder, Series ICS-D2-MH1

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with mounting holes position front



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rod Stainless steel Scraper Polyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	507	792	1237	1964	3167
Cushioning leng	gth	[mm]	11.5	14	17	16	19
Cushioning ene	rgy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
+10 mm stroke		[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

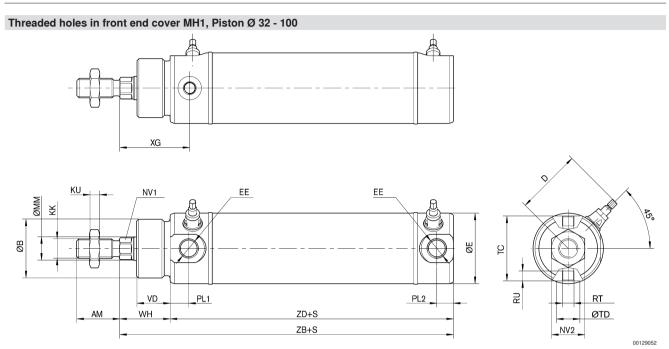
Piston Ø		[mm]	100		
Retracting pisto	n force	[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	gth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
+10 mm stroke		[kg]	0.135		
Stroke max.		[mm]	1500		

Configurable product



Round cylinder, Series ICS-D2-MH1

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting holes position front



S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

KK

KU MM q8

NV1

NV2

PL1

PL2

RT

		e11	,					9-					
32	22	30	34	36	G 1/8	M10x1,25	5	12	10	17	9.5	8.5	M6x0,5
40	24	35	38	44	G 1/4	M12x1,25	6	16	13	18	11	11	M6x0,5
50	32	40	50	54	G 1/4	M16x1,5	8	20	17	24	12	12	M8x0,75
63	32	45	57	68	G 3/8	M16x1,5	8	20	17	24	14	13.5	M10x1
80	40	55	70.5	86	G 3/8	M20x1,5	10	25	22	30	14	14	M12x1
100	40	65	80.5	106	G 1/2	M20x1,5	10	25	22	30	20	19	M16x1,5
			_										
Ø	RU 2)	TC	ØTD	VD) Wi	H XG	ZB	ZD					
Ø	RU 2)	ТС	Ø TD		WI	H XG	ZB	ZD					
Ø 32	,		h9)			ZB 121	ZD 95					
	5	33	h9	17	' 2	6 36		95					
32	5	33 40	h9 12 12	17 2 25	20	6 36 5 47.5	121	95 108					
32 40	5 6 7.5	33 40 49	h9 12 12	17 2 25 3 25	2 2 3 3 3 3 5 3 5 3 5 3 5 3 5 3 5 5 3 5	36 5 47.5 6 49.5	121 143	95 108 115					
32 40 50	5 6 7.5 12.5	33 40 49 61	h9 12 12 16 16	2 17 2 25 6 25 6 30	2 2 3 3 3 4 4	36 5 47.5 5 49.5 0 55.5	121 143 150	95 108 115 125					

¹⁾ max.

AM

ØВ

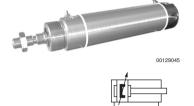
D 1)

ØΕ

2) min.

Round cylinder, Series ICS-D2-MH2

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with mounting holes position rear



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rod Stainless steel Scraper Polyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	507	792	1237	1964	3167
Cushioning leng	gth	[mm]	11.5	14	17	16	19
Cushioning ene	rgy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
+10 mm stroke		[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting pistor	n force	[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	th	[mm]	22		
Cushioning ener	gy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
+10 mm stroke		[kg]	0.135		
Stroke max.		[mm]	1500		

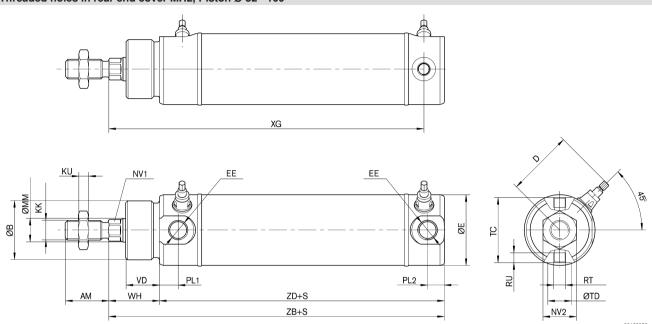
Configurable product



Round cylinder, Series ICS-D2-MH2

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with mounting holes position rear

Threaded holes in rear end cover MH2, Piston Ø 32 - 100



S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

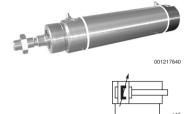
Ø	AM	Ø B e11	D 1)	ØE	EE	KK	KU	MM g8	NV1	NV2	PL1	PL2	RT
32	22	30	34	36	G 1/8	M10x1,25	5	12	10	17	9.5	8.5	M6x0,5
40	24	35	38	44	G 1/4	M12x1,25	6	16	13	18	11	11	M6x0,5
50	32	40	50	54	G 1/4	M16x1,5	8	20	17	24	12	12	M8x0,75
63	32	45	57	68	G 3/8	M16x1,5	8	20	17	24	14	13.5	M10x1
80	40	55	70.5	86	G 3/8	M20x1,5	10	25	22	30	14	14	M12x1
100	40	65	80.5	106	G 1/2	M20x1,5	10	25	22	30	20	19	M16x1,5
Ø	RU 2)	ТС	Ø TD h9	VD	WH	I XG	ZB	ZD					
32	5	33	12	17	26	110.5	121	95					
40	6	40	12	25	35	129	143	108					
50	7.5	49	16	25	35	134.5	150	115					
63	12.5	61	16	30	40	149.5	165	125					
80	16	78	16	30	42	164	184	142					
100	16	100	20	30	42	177	198	156					

¹⁾ max.

²⁾ min.

Round cylinder, Series ICS-D2-MX6

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► with rear end cover with threaded holes



 $\label{lem:working} \begin{tabular}{lll} Working pressure min./max. & 1 bar / 10 bar \\ Ambient temperature min./max. & -25 °C / +70 °C \\ Medium temperature min./max. & -25 °C / +70 °C \\ Medium & Compressed air \\ \end{tabular}$

Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber

Nut for piston rod Stainless steel Scraper Polyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	507	792	1237	1964	3167
Cushioning leng	gth	[mm]	11.5	14	17	16	19
Cushioning ene	rgy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
+10 mm stroke		[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		[mm]	100		
Retracting pisto	n force	[N]	4639		
Extending piston force		[N]	4948		
Cushioning leng	gth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	7.7		
+10 mm stroke		[kg]	0.135		
Stroke max.		[mm]	1500		

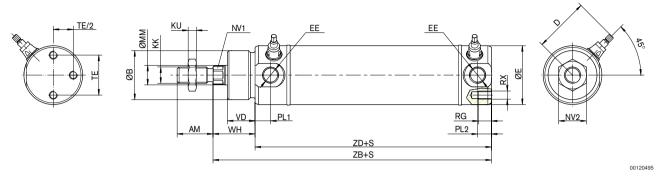
Configurable product



Round cylinder, Series ICS-D2-MX6

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ with rear end cover with threaded holes

Rear eye with threaded holes, MX6, Piston Ø 32 - 100



S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	Ø B e11	D 1)	ØE	EI		KK	KU	MM g8	NV1	NV2	PL1	PL2	RG
32	22	30	34	36	G 1/8	8 M10	x1,25	5	12	10	17	9.5	8.5	8
40	24	35	38	44	G 1/-	4 M12	x1,25	6	16	13	18	11	11	10
50	32	40	50	54	G 1/-	4 M1	6x1,5	8	20	17	24	12	12	10
63	32	45	57	68	G 3/3	B M1	6x1,5	8	20	17	24	14	13.5	12
80	40	55	70.5	86	G 3/	8 M2	0x1,5	10	25	22	30	14	14	12
100	40	65	80.5	106	G 1/2	2 M2	0x1,5	10	25	22	30	20	19	16
Ø	RX	TE	VD	WH	ZB	ZD								
32	M5	24.5	17	26	121	95								
40	M6	30	25	35	143	108								
50	M6	39	25	35	150	115								
63	M8	49	30	40	165	125								
80	M8	65	30	42	184	142								
100	M10	85	30	42	198	156								

¹⁾ max.

Round cylinder, Series ICS-D2

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► corrosion-protected ► Piston rod: through



Max. particle size 50 μ m

Oil content of compressed air 0 mg/m³ - 1 mg/m³

Pressure for determining piston forces 6,3 bar

Materials:

Cylinder tubeStainless steelPiston rodStainless steelFront coverStainless steelEnd coverStainless steel

Seal Acrylonitrile Butadiene Rubber; Polyethylene

Nut for piston rod Stainless steel Scraper Polyethylene

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter "Technical information".
- Clamping piece for magnetic field sensor necessary
- Configuration with food lubricants according to NSF H1 for the food industry is possible

Piston Ø		[mm]	32	40	50	63	80
Retracting piston force		[N]	435	665	1039	1766	2857
Extending piston force		[N]	435	665	1039	1766	2857
Cushioning leng	th	[mm]	11.5	14	17	16	19
Cushioning ener	gy	[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.7	1.4	2	3.5	4.7
+10 mm stroke		[kg]	0.038	0.06	0.075	0.1	0.14
Stroke max.		[mm]	480	600	750	945	1200

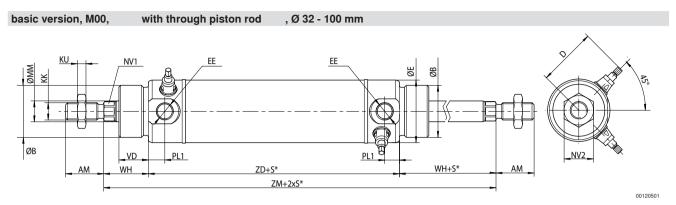
Piston Ø		[mm]	100		
Retracting piston force		[N]	4639		
Extending piston force		[N]	4639		
Cushioning leng	ıth	[mm]	22		
Cushioning ene	rgy	[J]	88		
Weight	0 mm stroke	[kg]	9		
+10 mm stroke		[kg]	0.17		
Stroke max.		[mm]	1500		

Configurable product



Round cylinder, Series ICS-D2

▶ Ø 32 - 100 mm ▶ double-acting ▶ with magnetic piston ▶ cushioning: pneumatically, adjustable ▶ corrosion-protected ▶ Piston rod: through



S = stroke, tolerance \emptyset 32–50 mm = +2/-0, \emptyset 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nut in accordance with ISO 4035; DIN 439. For other dimensions, see basic version.

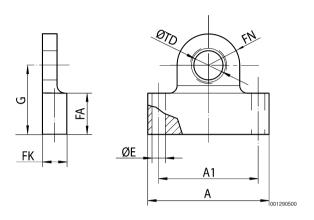
Ø	АМ	Ø B e11	D 1)	ØE	EE	KK	KU	MM g8	NV1	NV2	PL1	VD	WH
32	22	30	34	36	G 1/8	M10x1,25	5	12	10	17	9.5	17	26
40	24	35	40	44	G 1/4	M12x1,25	6	16	13	18	11	25	35
50	32	40	50	54	G 1/4	M16x1,5	8	20	17	24	12	25	35
63	32	45	57	68	G 3/8	M16x1,5	8	20	17	24	14	30	40
80	40	55	70.5	86	G 3/8	M20x1,5	10	25	22	30	14	30	42
100	40	65	80.5	106	G 1/2	M20x1,5	10	25	22	30	20	30	42
Ø	ZD	ZM											
32	96	148											
40	107	177											
50	115	185		İ									
63	125	205		İ									
80	142	226											
100	156	240											

¹⁾ max.

Series ICS-D2 Accessories

Bearing blocks





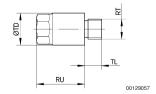
Part No.	Piston Ø	Α	A1	ØE	FA	FK	FN	G	Ø TD h9	Material	
2992112030	32	50	41	5.5	17	10	13	28.5	12	Stainless steel, acid- proof	
2992112040	40	55	46	5.5	17	10	15.5	38	12	Stainless steel, acid- proof	
2992112050	50	64	53	6.5	18.5	12	17.5	38	16	Stainless steel, acid- proof	
2992112060	63	66	56	6.5	18.5	12	19	46.5	16	Stainless steel, acid- proof	
2992112080	80	82	72	6.5	18.5	12	26	50.5	16	Stainless steel, acid- proof	
2992112100	100	108	88	9	22	16	26	65	20	Stainless steel, acid- proof	

Delivered in pairs

Max. continous temperature 85 °C (185 °F). Peak temperature of 150 °C (300 °F). Higher temperatures on request.

Mounting bolts





Series ICS-D2 Accessories

Part No.	Piston Ø	RT	RU	Ø TD h9	TL	Material			
2992113030	32	M6x0,5	5	12	17	Stainless steel, acid- proof			
2992113040	40	M6x0,5	6	12	17	Stainless steel, acid- proof			
2992113050	50	M8x0,75	7.5	16	20	Stainless steel, acid- proof			
2992113060	63	M10x1	8.5	16	24	Stainless steel, acid- proof			
2992113080	80	M12x1	16	16	27	Stainless steel, acid- proof			
2992113100	100	M16x1,5	16	20	32	Stainless steel, acid- proof			

Delivered in pairs

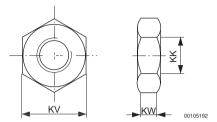
$\textbf{Piston rod cylinders} \rightarrow \textbf{Round cylinders}$

Series ICS-D2 Accessories

Piston rod nut MR9



0010516

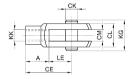


Part No.	KK	KV	KW	Material			
					[kg]		
8103190464	M10x1,25	16	5	Stainless steel	0.008		
3590304000	M12x1,25	18	6	Stainless steel	0.02		
3590305000	M16x1,5	24	8	Stainless steel	0.03		
3590308000	M20x1,5	30	10	Stainless steel	0.05		

Rod clevis AP2

► Stainless steel











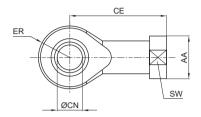
Part No.	KK	Fig.	Α	CE	CK e8	CL	CM B12	ER	KG	LE
3590502000	M10x1,25	1	20	40	10	20	10	12	26	20
3590504000	M12x1,25	1	24	48	12	24	12	14	31	24
3590505000	M16x1,5	1	32	64	16	32	16	19	39	32
3590508000	M20x1,5	1	40	80	20	40	20	20	49	40

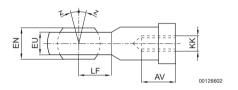
Part No.	Material	Weight [kg]				
3590502000	Stainless steel	0.1				
3590504000	Stainless steel	0.16				
3590505000	Stainless steel	0.4				
3590508000	Stainless steel	0.7				

Series ICS-D2 Accessories

Ball eye rod end AP6







Part No.	KK	AA	AV	CE	Ø CN	EN -0,1	ER	EU	LF	SW	Z [°]
			min.		H7			max.			max.
8958209032	M10x1,25	19	15	43	10	14	14	10.5	14	17	6.5
8958209042	M12x1,25	22	18	50	12	16	16	12	16	19	6.5
8958209052	M16x1,5	27	24	64	16	21	21	15	21	22	7.5
8958209062	M20x1,5	34	30	77	20	25	25	18	25	30	7.5
8958209072	M27x2	50	45	110	30	37	35	25	35	41	7.5

Part No.	Material	Weight [kg]				
8958209032	Stainless steel	0.09				
8958209042	Stainless steel	0.12				
8958209052	Stainless steel	0.23				
8958209062	Stainless steel	0.41				
8958209072	Stainless steel	1.24				

Series ICS-D2 Accessories

Sensor, Series ST8

▶ 8 mm groove ▶ with cable ▶ without wire end ferrule, tin-plated



 $\label{eq:ambient temperature min./max.} Ambient temperature min./max. -25 °C / +75 °C \\ Protection class according to EN & IP 65, IP 67 \\ \end{tabular}$

60529:2000

Switching point precision [mm] ±0,1

Vibration resistance 10 - 55 Hz, 1,5 mm

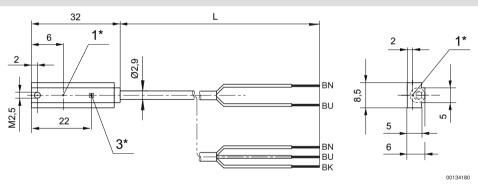
Materials:

Housing Polyamide Cable Polyvinyl chloride

	Type of contact	Cable length L	DC operating voltage min./max.	current, max.	Voltage drop U at Imax	Shock resistance Max.	Part No.
		[m]	[V]	[A]	[V]		
TT BN +	electronic PNP	2.5	10 / 30	0.15	≤ 2,0	20 a	2750131110
BU BK R.	electionic FIVE	10	10 / 30	0,15	≤ ∠,0	30 g	2750151110

interfaces: without wire end ferrule, tin-plated short circuit resistant; Protected against polarity reversal

Dimensions



1* = switching point

 $3^* = LED$

L = cable length

BN = brown, BK = black, BU = blue

Series ICS-D2 Accessories

Sensor, Series ST8

▶ 8 mm groove ▶ with cable ▶ Plug, M8, 3-pin



Ambient temperature min./max. -25°C / +75°C
Protection class according to EN IP 65, IP 67

60529:2000

Switching point precision [mm] ±0,1

Vibration resistance 10 - 55 Hz, 1,5 mm

Shock resistance 30 g

Materials:

Housing Polyamide Cable Polyurethane

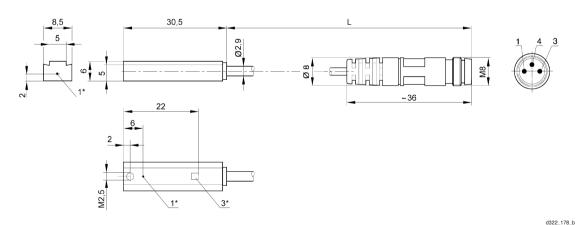
	Type of contact	Cable length L	DC operating voltage min./max.		Voltage drop U at Imax	Note	Part No.
		[m]	[V]	[A]	[V]		
T 3 R.	electronic PNP	0.3	10 / 30	0,15	≤ 2,0	- 1)	2750111120 2750123120
1 8K R 1	electronic NPN	0.3	10 / 30	0,15	≤ 2,0	-	2750111220

1) in accordance with EN 50082-2

interfaces: Plug; M8; 3-pin

short circuit resistant; Protected against polarity reversal

Dimensions



1* = switching point

 $3^* = LED$

L = cable length

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

$\textbf{Piston rod cylinders} \, \rightarrow \, \textbf{Round cylinders}$

Series ICS-D2

Accessories

Sensor, Series ST8

▶ 8 mm groove ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw



-25°C/+75°C Ambient temperature min./max. Protection class according to EN IP 65, IP 67

60529:2000

Switching point precision [mm] ±0,1

Vibration resistance 10 - 55 Hz, 1,5 mm

Shock resistance 30 g

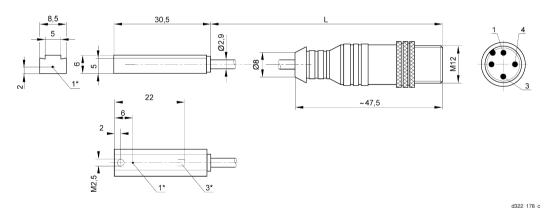
Materials:

Housing Polyamide Cable Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	,	Voltage drop U at Imax	Part No.
		[m]	[V]	[A]	[V]	
1 + 3 - R	electronic PNP	0.3	10 / 30	0,15	≤ 2,0	2750121120

interfaces: Plug; M12; 3-pin; with knurled screw short circuit resistant; Protected against polarity reversal

Dimensions



1* = switching point 3* = LED

L = cable length

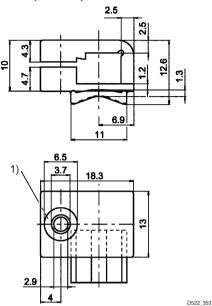
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Series ICS-D2 Accessories

Sensor mounting

▶ clamping piece ▶ for Sensor Series ST8 ▶ to mount on cylinder Series CPC, ICS-D1, ICS-D2





1) Mounting screw for sensor

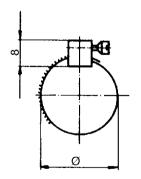
Part No.	Cylinders Ø	Material	Weight			
	[mm]		[kg]			
5226603532	32 - 80	Polyarylamide	0.01			

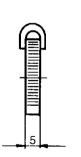
In combination with clamping ring 89351186X2

Clamping ring

▶ to mount on cylinder Series CPC, ICS-D1, ICS-D2







D893_860

Part No.	Cylinders Ø	Material	Weight			
	[mm]		[kg]			
8935118622	28 - 39	Stainless steel	0.005			
8935118632	38 - 49	Stainless steel	0.005			
8935118642	48 - 59	Stainless steel	0.006			

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information Pneumatics catalog, online PDF, as of 2010-10-29, © Bosch Rexroth AG, subject to change

Series ICS-D2 Accessories

Part No.	Cylinders Ø [mm]	Material	Weight [kg]			
8935118652	58 - 69	Stainless steel	0.006			
8935118662	78 - 89	Stainless steel	0.007			
8935118672	98 - 109	Stainless steel	0.007			

Connecting cable, Series CN2

► Socket, M8, 3-pin ► open cable ends, 3-pin



Ambient temperature min./max. $-40\,^{\circ}$ C / $+85\,^{\circ}$ C Protection class according to EN 60529 IP 65

Materials: Cable sheath

Polyurethane

Technical Remarks

■ The specified protection class is valid only in assembled and tested state.

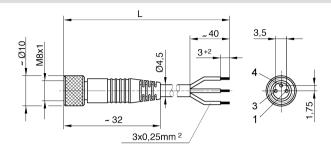
	Ele	ctrical interface	Max. curren	Number of wires	Wire cross- section	Cable exit	Part No.	
	[Port 1]	[Port 2]	[A]	[mm²]			
						straight 180°	1834484166	
D BN						straight 180°	1834484168	
) 3 BU BU BK	Socket, M8, 3-pin	open cable ends, 3-pin			0.24	straight 180°	1834484247	
			4	1 3		angled 90°	1834484167	
						angled 90°	1834484169	
<u> </u>						angled 90°	1834484248	
						angled 90°	1834484249	
Part No.	Cable length L				Weight	Fig.		
			[m]		[kg]			
1834484166		3			0.091	Fig. 1		
1834484168	5				0.145	Fig. 1		
1834484247	10				0.33	Fig. 1		
1834484167	3				0.092	Fig. 2		
1834484169		5			0.141	Fig. 2		
1834484248	10				0.276	Fig. 2		
1834484249	15				0.431	Fig. 2		

00105612_a

Piston rod cylinders → Round cylinders

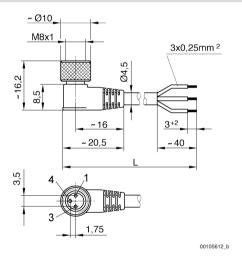
Series ICS-D2 Accessories

Fig. 1



(1) BN=brown (3) BU=blue (4) BK=black L = length

Fig. 2



(1) BN=brown (3) BU=blue (4) BK=black L = length

M8x1 socket (female), Series CN2

► Socket, M8x1, 3-pin



Ambient temperature min./max. -40 °C / +85 °C Protection class according to EN 60529: IP 65

Materials:

Housing Polyamide

Technical Remarks

■ The specified protection class is valid only in assembled and tested state.

Series ICS-D2 Accessories

		Operating voltage		Contact assign- ment	(Cable exit	suitable cable min./m	
	DC	AC						
	[V]	[V]	[A]				[mi	m]
) 1 BN BN BU 3 BU BK	75	60	4	3		aight 180° ngled 90°	/ 4	1834484173 1.5 1834484174
Part No.	number of plug options 1		1 Hou	Housing color		Weight	Fig.	
							[kg]	
40044044=0	I					I		l

1834484173 Fig. 1 0.008 1 position Black 1834484174 Fig. 2

Fig. 1

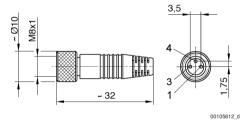
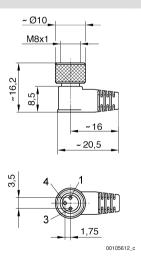


Fig. 2





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