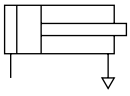
Piston rod cylinders → Diaphragm actuator, power transducer and pressure intensifier

Diaphragm and piston actuators, Series RDC

► Ø 52.5 - 115 mm ► Ports: G 1/8 - G 1/4 ► Single-acting, retracted without pressure ► Piston rod: external thread

5218-011



a51

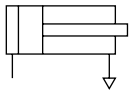
Compressed air connection	internal thread
Ambient temperature min./max.	-25°C / +80°C
Medium temperature min./max.	-25°C / +80°C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Steel
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Aluminum, chrome-plated
End cover	Aluminum, chrome-plated
Seal	Acrylonitrile Butadiene Rubber
Nut for piston rod	Steel, galvanized

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“.

Piston Ø		**[mm]**	**52.5**	**75**	**85**	**95**	**115**
Extracting piston force		[N]	1363	2783	3575	4465	6543
Weight	0 mm stroke	[kg]	1.6	3	3.6	4.1	5.8
Stroke max.		[mm]	40	60	70	75	95
Working pressure min./max.		[bar]	0.03 - 8	0.03 - 8	0.035 - 8	0.035 - 8	0.035 - 8

	Piston Ø **Piston rod thread** **Ports** **Piston rod Ø**	**52.5** **M10x1,25** **G 1/8** **12**	**75** **M10x1,25** **G 3/8** **16**	**85** **M16x1,5** **G 1/4** **20**	**95** **M16x1,5** **G 3/8** **20**	**115** **M16x1,5** **G 3/8** **20**
	Stroke 40	**5218535110**	-	-	-	-
	60	-	**5218555110**	-	-	-
	70	-	-	**5218565110**	-	-
	75	-	-	-	**5218575120**	-
	95	-	-	-	-	**5218585120**

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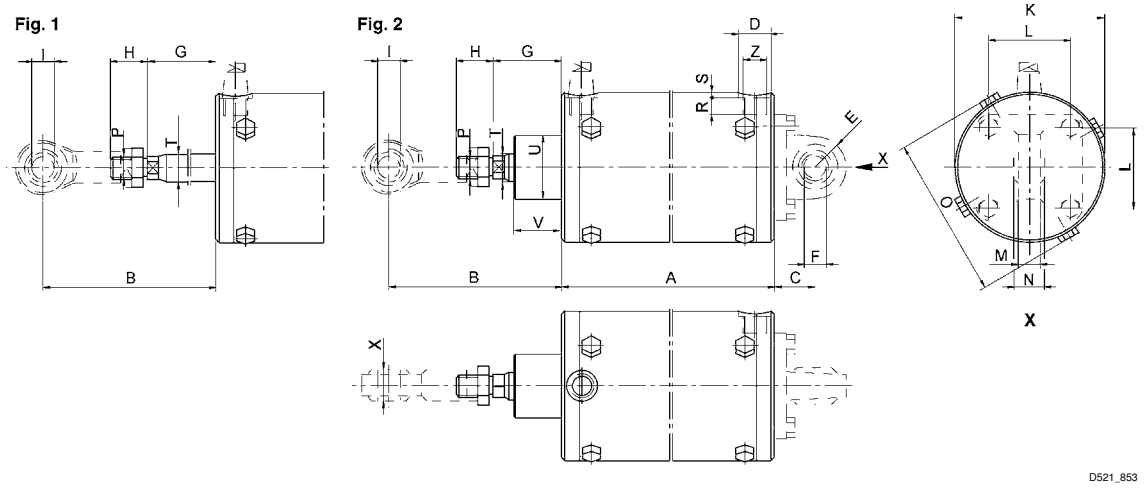
Diaphragm and piston actuators, Series RDC

► Ø 52.5 - 115 mm ► Ports: G 1/8 - G 1/4 ► Single-acting, retracted without pressure ► Piston rod: external thread

Dimensions



Piston Ø	A	B	C	D	E	F H7	G	H	I H7	K	L	M	N
52.5	140	67	29	17	15	10	19	26	10	60	33	7-9	14
75	166	84	26	23	18	12	32	31	10	86	49	9-11	16
85	202	118	30	22	22	16	43	26	16	97	59	14,5-17,5	21
95	208	124	30	23	22	16	49	26	16	106	59	14,5-17,5	21
115	247	120	38	23	25	16	45	26	16	127	75	14-17,5	21

Piston Ø	O	P	R	S	U	V	T h7	X	Z				
52.5	68	M10x1,25	8	3.1	–	–	12	14	G 1/8	Fig. 1			
75	92	M10x1,25	12	3.5	–	–	16	14	G 3/8	Fig. 1			
85	108	M16x1,5	12	4.5	–	–	20	21	G 1/4	Fig. 1			
95	117	M16x1,5	12	3.5	45	34	20	21	G 3/8	Fig. 2			
115	138	M16x1,5	12	3.6	45	33	20	21	G 3/8	Fig. 2			