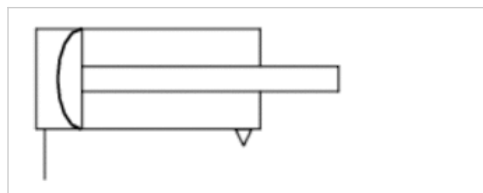


Diaphragm and piston actuators, Series RDC

- Ø 52.5-115 mm
- Ports G 1/8 G 3/8 G 1/4
- Single-acting, retracted without pressure
- Piston rod External thread



Compressed air connection	Internal thread
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m ³
Pressure for determining piston forces	6.3 bar
Weight	See table below

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	52,5 mm M10x1,25 G 1/8 12 mm	75 mm M10x1,25 G 3/8 16 mm	85 mm M16x1,5 G 1/4 20 mm	95 mm M16x1,5 G 3/8 20 mm	115 mm M16x1,5 G 3/8 20 mm
Stroke 40	5218535110	-	-	-	-
60	-	5218555110	-	-	-
70	-	-	5218565110	-	-
75	-	-	-	5218575120	-
95	-	-	-	-	5218585120

Technical data

Piston Ø	52,5 mm	75 mm	85 mm	95 mm
Extracting piston force	1363 N	2783 N	3575 N	4465 N
Weight 0 mm stroke	1,6 kg	3 kg	3,6 kg	4,1 kg
Working pressure min./max.	0,03 ... 8 bar	0,03 ... 8 bar	0,035 ... 8 bar	0,035 ... 8 bar
Stroke max.	40 mm	60 mm	70 mm	75 mm

Piston Ø	115 mm
Extracting piston force	6543 N

Piston Ø	115 mm
Weight 0 mm stroke	5,8 kg
Working pressure min./max.	0,035 ... 8 bar
Stroke max.	95 mm

Technical information

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 compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

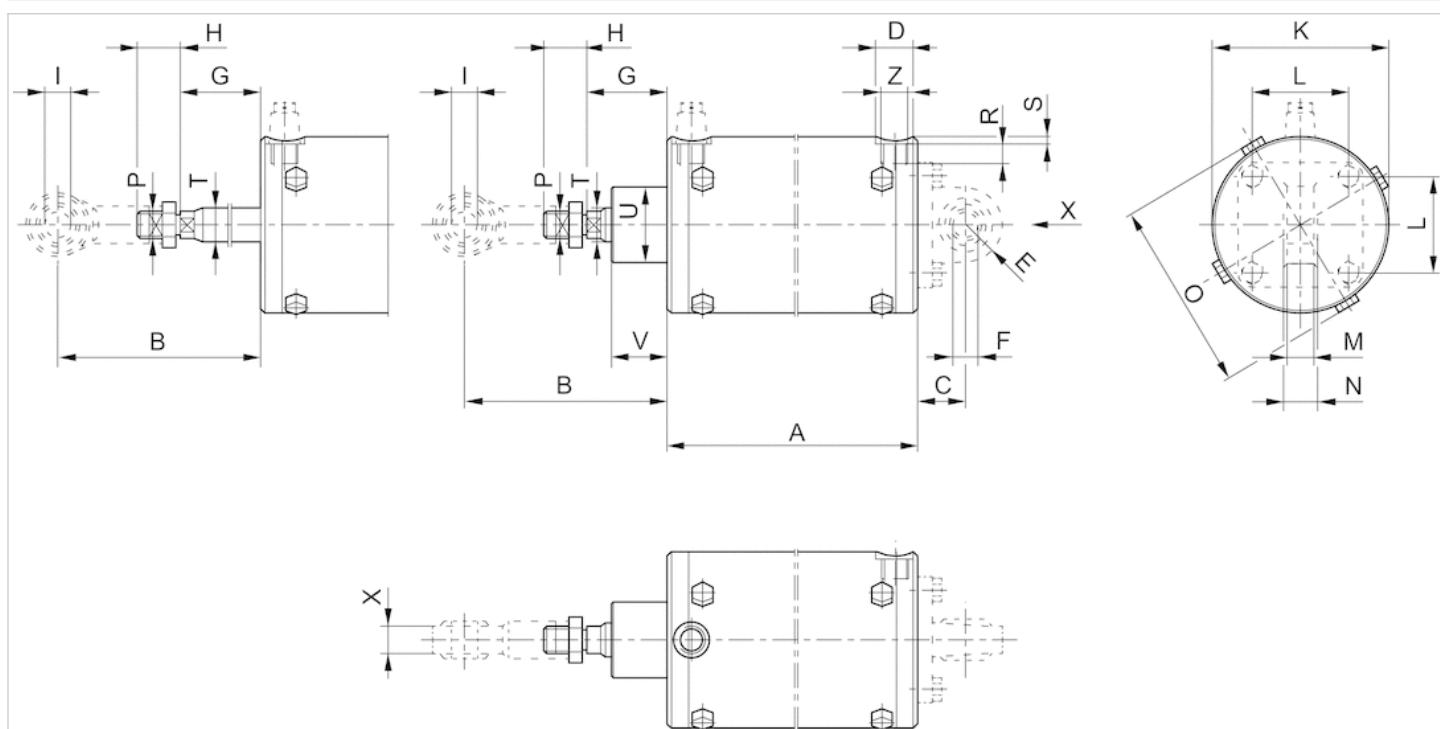
Technical information

Material

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

Dimensions

Dimensions



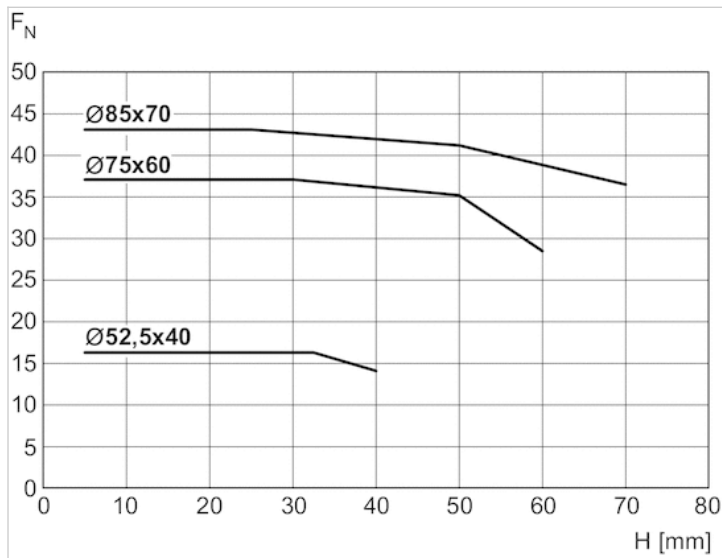
Dimensions

Piston Ø	A	B	C	D	E	F H7	G	H	I H7	K	L	M	N	O	P	R	S	U	V
52,5 mm	140	67	29	17	15	10	19	26	10	60	33	7-9	14	68	M10x1,25	8	3.1	-	-
75 mm	166	84	26	23	18	12	32	31	10	86	49	9-11	16	92	M10x1,25	12	3.5	-	-
85 mm	202	118	30	22	22	16	43	26	16	97	59	14,5-17,5	21	108	M16x1,5	12	4.5	-	-
95 mm	208	124	30	23	22	16	49	26	16	106	59	14,5-17,5	21	117	M16x1,5	12	3.5	45	34
115 mm	247	120	38	23	25	16	45	26	16	127	75	14-17,5	21	138	M16x1,5	12	3.6	45	33

T h7	X	Z
12	14	G 1/8
16	14	G 3/8
20	21	G 1/4
20	21	G 3/8
20	21	G 3/8

Diagrams

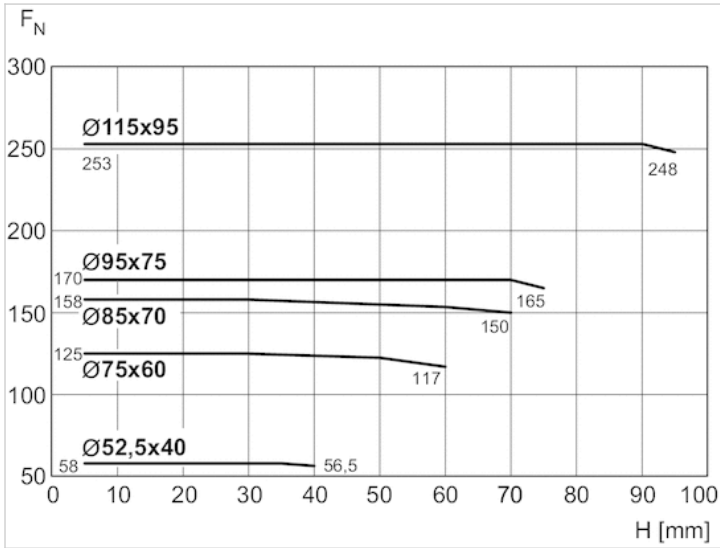
Force-stroke characteristic curve 0.1 bar



F = extending piston force

H = stroke

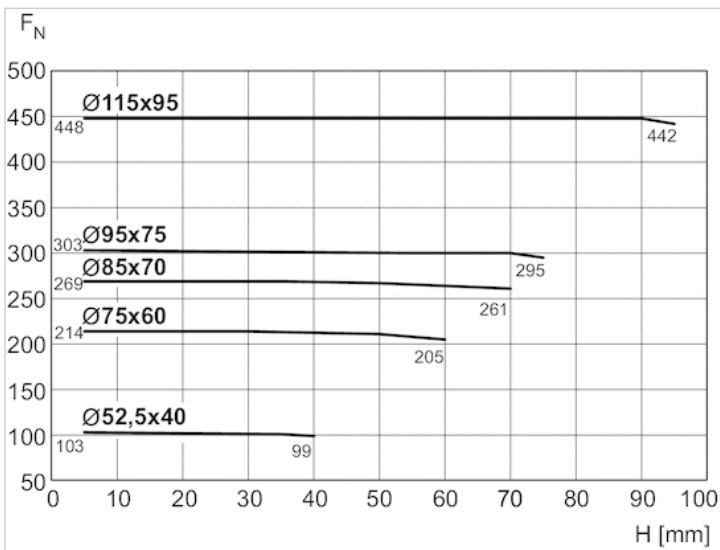
Force-stroke characteristic curve 0.3 bar



F= extending piston force

H = stroke

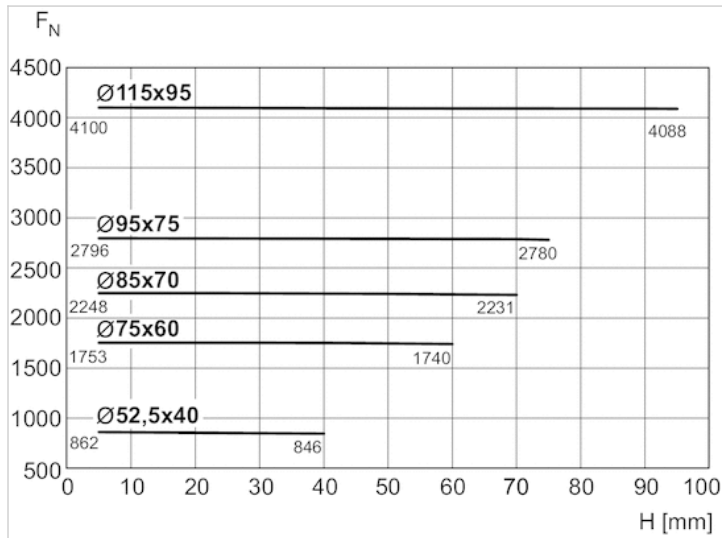
Force-stroke characteristic curve 0.5 bar



F= extending piston force

H = stroke

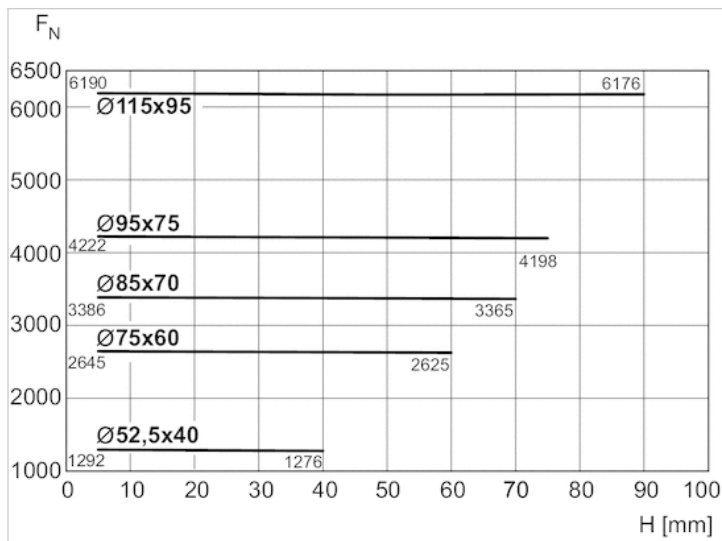
Force-stroke characteristic curve 4 bar



F = extending piston force

H = stroke

Force-stroke characteristic curve 6 bar

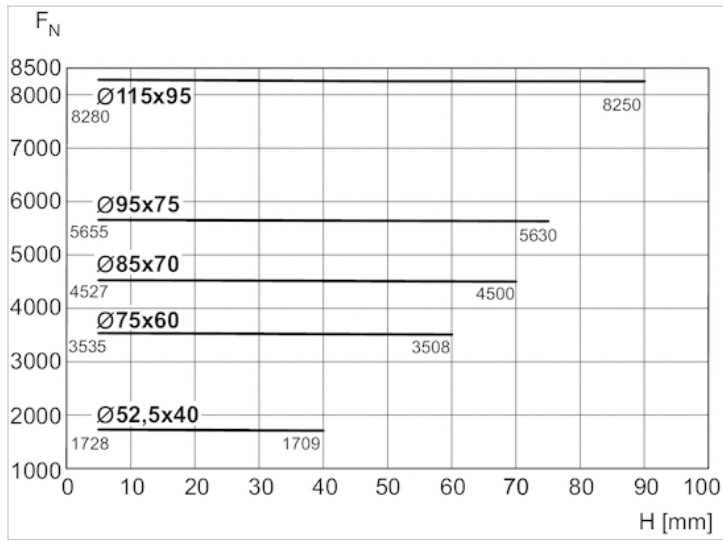


F = extending piston force

H = stroke



Force-stroke characteristic curve 8 bar



F = extending piston force

H = stroke