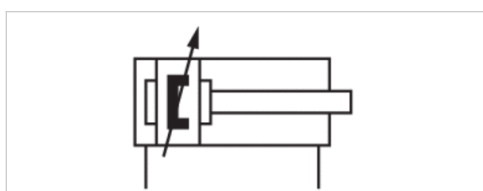


Tie rod cylinder, CNOMO NFE 49-001, Series C12P

- Ø 32-200 mm
- Ports G 1/8 G 1/4 G 3/8 G 1/2 G 3/4
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- Piston rod External thread



Standards	CNOMO / NFE 49-001
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,5 G 1/8 12 mm	40 mm M16x1,5 G 1/4 18 mm	50 mm M16x1,5 G 1/4 18 mm	63 mm M20x1,5 G 3/8 22 mm	80 mm M20x1,5 G 3/8 22 mm	100 mm M27x2 G 1/2 30 mm
Stroke 25	7472404382	7472414609	7472408174	R422702945	7472408202	7471316187
50	7472020373	7471322877	7471310407	7471315000	7472408249	7472408250
75	7472011002	7472012002	7472013002	7472014002	7472015001	7472016000
80	7471318835	R422702911	7471311603	R422705004	7472408200	-
100	7472023181	7471321388	7471313232	7472407475	7472408362	7472408141
125	7472408151	7471315903	7472020079	-	7472415199	R422701648
150	R422702876	7472408158	7471315002	7472408187	7472406097	-
200	R422701368	7471318717	R422701344	7471318262	R422709529	7471314208
250	-	R422702877	7472408176	-	7471318287	-
300	7471312499	7471326645	R422702811	7472414341	7471314123	-
350	7471314851	7471326094	7471319643	7472405557	7472408196	7472415026
400	7471313425	7472408161	7472408179	7472408189	7471326646	-
450	-	7472403842	7472404259	7472404354	-	7472020146
500	-	7471320525	7472411255	R422703385	7472407113	R422709968

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 30 mm	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm
Stroke 25	R422703160	-	-
50	7472408219	7472408208	7472408361
75	7472017000	7472018014	7472019014
80	-	-	-
100	7471316303	7472408363	7472408364
125	7472408214	7472411000	7472408203
150	R422709768	7472408207	-
200	7472408217	-	R422702875
250	-	-	-
300	7471314424	7472408137	7472409554
350	7472411257	-	-
400	7472408218	7472406567	7472408205
450	-	-	-
500	R422703390	7472408209	7472408206

Other versions can be ordered from AVENTICS sales offices.

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm	125 mm
Retracting piston force	435 N	600 N	1077 N	1724 N	2927 N	4503 N	7286 N
Extracting piston force	507 N	792 N	1237 N	1964 N	3167 N	4948 N	7731 N
Weight 0 mm stroke	0,38 kg	0,75 kg	1,1 kg	1,93 kg	2,03 kg	4,2 kg	5,06 kg
Weight +10 mm stroke	0,035 kg	0,055 kg	0,068 kg	0,086 kg	0,137 kg	0,183 kg	0,202 kg
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm	2600 mm	2600 mm	2600 mm

Piston Ø	160 mm	200 mm
Retracting piston force	11875 N	19000 N
Extracting piston force	12667 N	19792 N
Weight 0 mm stroke	11,6 kg	14,5 kg
Weight +10 mm stroke	0,352 kg	0,54 kg
Stroke max.	2600 mm	2600 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).

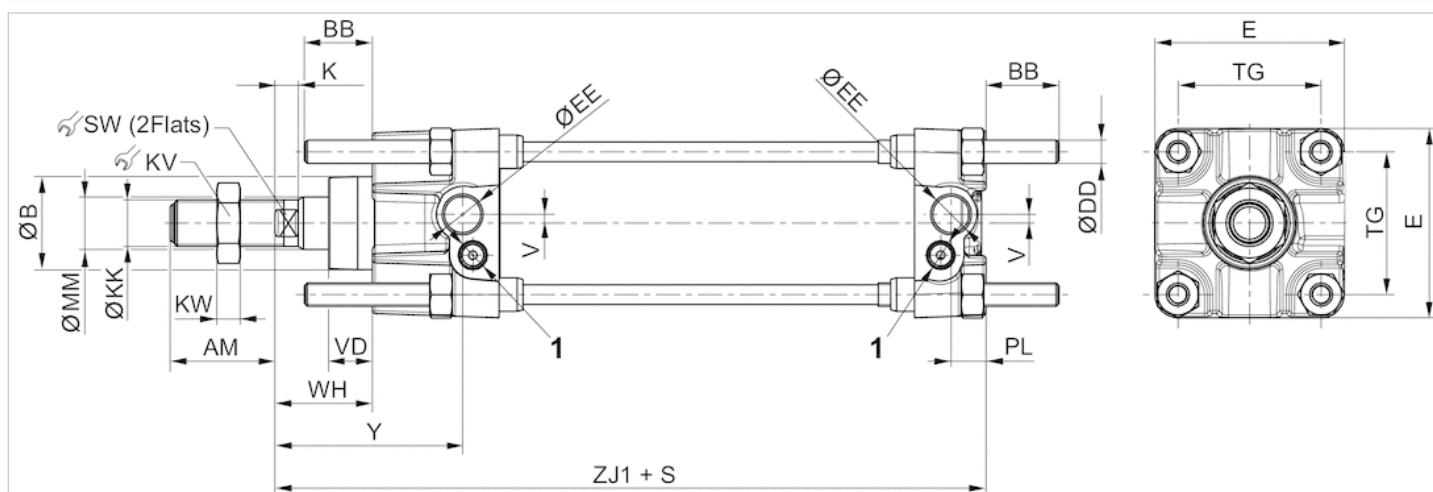
You will find the order key and all valid configurations (customer information) in the Media Centre.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Tie-rods	Stainless steel

Dimensions

Dimensions



1) Flow control screw
S=stroke

Dimensions

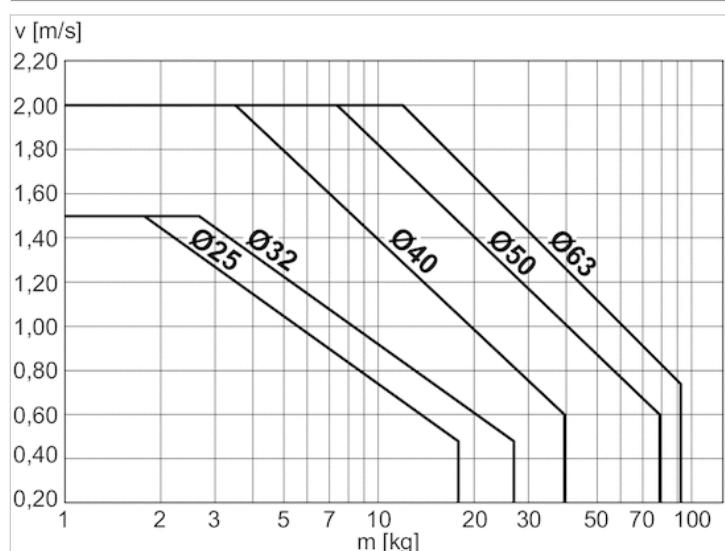
Piston Ø	AM	BB	Ø B e9	Ø DD	E	Ø EE	K	Ø KK	KV	KW	Ø MM	PL	SW	TG	V	VD	WH	Y
32 mm	20	17	25	M6	45	G1/8	6	M10x1,5	17	5	12	9	8	33	-	15	25	44
40 mm	36	17	32	M6	52	G1/4	8	M16x1,5	24	8	18	12	13	40	3	15	34	65
50 mm	36	23	32	M8	65	G1/4	8	M16x1,5	24	8	18	12	13	49	3	15	34	65
63 mm	46	23	45	M8	75	G3/8	10	M20x1,5	30	10	22	14	17	59	5	20	39	71
80 mm	46	28	45	M10	95	G3/8	10	M20x1,5	30	10	22	14	17	75	9	20	39	71
100 mm	63	28	55	M10	115	G1/2	16	M27x2	41	13.5	30	18	22	90	-	20	47	84
125 mm	63	34	55	M12	140	G1/2	16	M27x2	41	13.5	30	18	22	110	-	20	47	84
160 mm	85	42	65	M16	180	G3/4	16	M36x2	55	18	40	25	32	140	-	25	50	95
200 mm	85	42	65	M16	220	G3/4	16	M36x2	55	18	40	25	32	175	-	25	50	95

Piston Ø	ZJ1
32 mm	105
40 mm	144

Piston Ø	ZJ1
50 mm	144
63 mm	164
80 mm	164
100 mm	192
125 mm	192
160 mm	230
200 mm	230

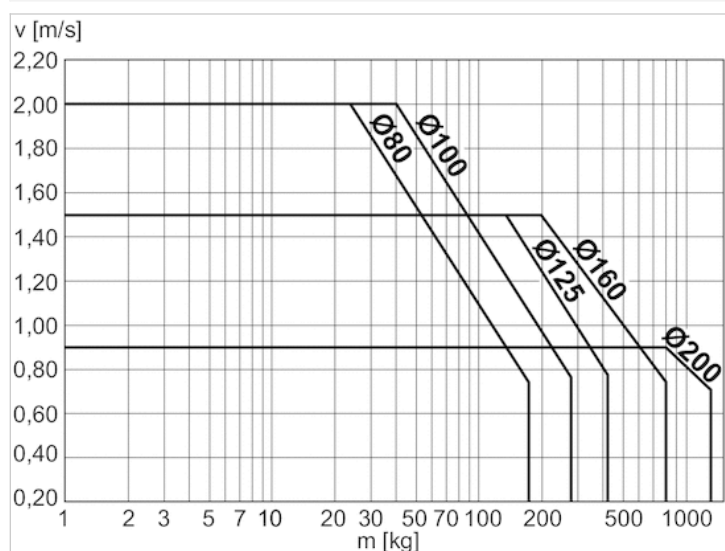
Diagrams

Cushioning diagram



v = Piston velocity [m/s]
m = Cushionable mass [kg]

Cushioning diagram



v = Piston velocity [m/s]
m = Cushionable mass [kg]