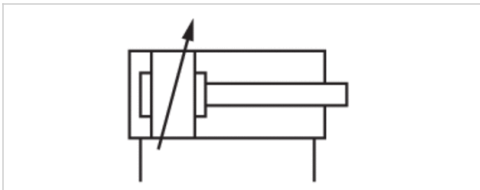


Tie rod cylinder ISO 15552, Series TRB

- ISO 15552
- Ø 32-125 mm
- Ports G 1/8 G 1/4 G 3/8 G 1/2
- double-acting
- Cushioning pneumatically adjustable
- Piston rod External thread
- Heat resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-10 ... 150 °C
Medium temperature min./max.	-10 ... 150 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6.3 bar



Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm	80 mm M20x1,5 G 3/8 25 mm	100 mm M20x1,5 G 1/2 25 mm
Stroke 25	0822240400	0822241400	0822242400	0822243400	0822244400	0822245400
50	0822240401	0822241401	0822242401	0822243401	0822244401	0822245401
80	0822240402	0822241402	0822242402	0822243402	0822244402	0822245402
100	0822240403	0822241403	0822242403	0822243403	0822244403	0822245403
125	0822240404	0822241404	0822242404	0822243404	0822244404	0822245404
160	0822240405	0822241405	0822242405	0822243405	0822244405	0822245405
200	0822240406	0822241406	0822242406	0822243406	0822244406	0822245406
250	0822240407	0822241407	0822242407	0822243407	0822244407	0822245407
320	0822240408	0822241408	0822242408	0822243408	0822244408	0822245408
400	0822240409	0822241409	0822242409	0822243409	0822244409	0822245409
500	0822240410	0822241410	0822242410	0822243410	-	0822245410

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 25	0822206401
50	0822206402
80	0822206403
100	0822206404
125	0822206405
160	0822206406
200	0822206407
250	0822206408
320	0822206409
400	0822206410
500	0822206411

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Cushioning length	11,5 mm	15 mm	17 mm	16,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J
Weight 0 mm stroke	0,46 kg	0,67 kg	1,14 kg	1,4 kg
Weight +10 mm stroke	0,024 kg	0,03 kg	0,036 kg	0,052 kg
Tie-rods	Stainless steel	Stainless steel	Steel galvanized	Steel galvanized
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm

Piston Ø	80 mm	100 mm	125 mm
Retracting piston force	2855 N	4635 N	7220 N
Extracting piston force	3165 N	4945 N	7725 N
Cushioning length	19,5 mm	19,5 mm	22 mm
Cushioning energy	54 J	88 J	140 J
Weight 0 mm stroke	2,12 kg	3,16 kg	6,92 kg
Weight +10 mm stroke	0,06 kg	0,065 kg	0,21 kg
Tie-rods	Steel galvanized	Steel galvanized	Steel galvanized
Stroke max.	2800 mm	2800 mm	2750 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.

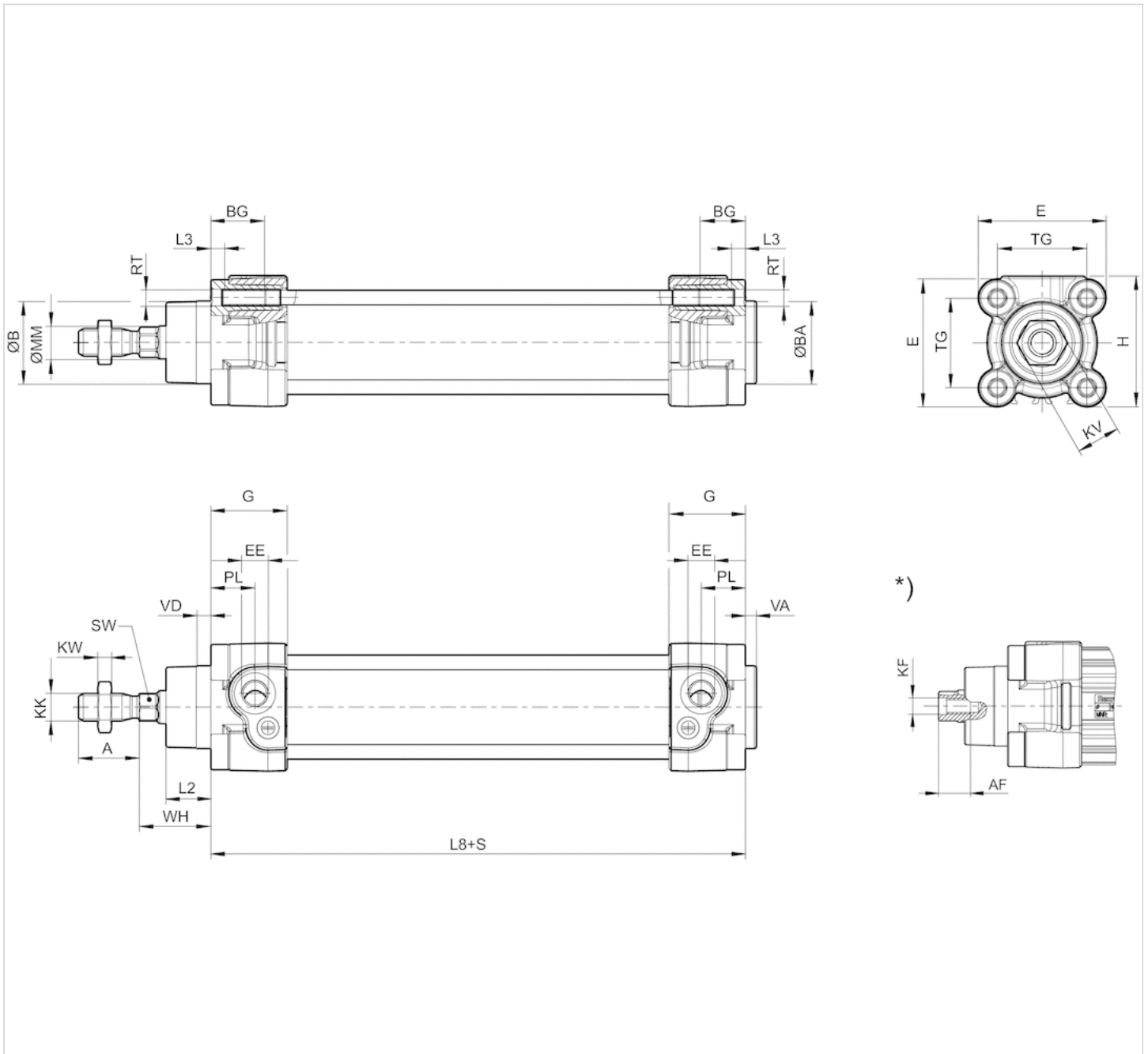
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Fluorocaoutchouc
Nut for piston rod	Steel, galvanized
Scraper	Fluorocaoutchouc
Tie-rods	Stainless steel Steel, galvanized
	See table for additional data on materials.

Dimensions

Dimensions



S = stroke

*) For cylinders with optional piston rod with internal thread

Dimensions

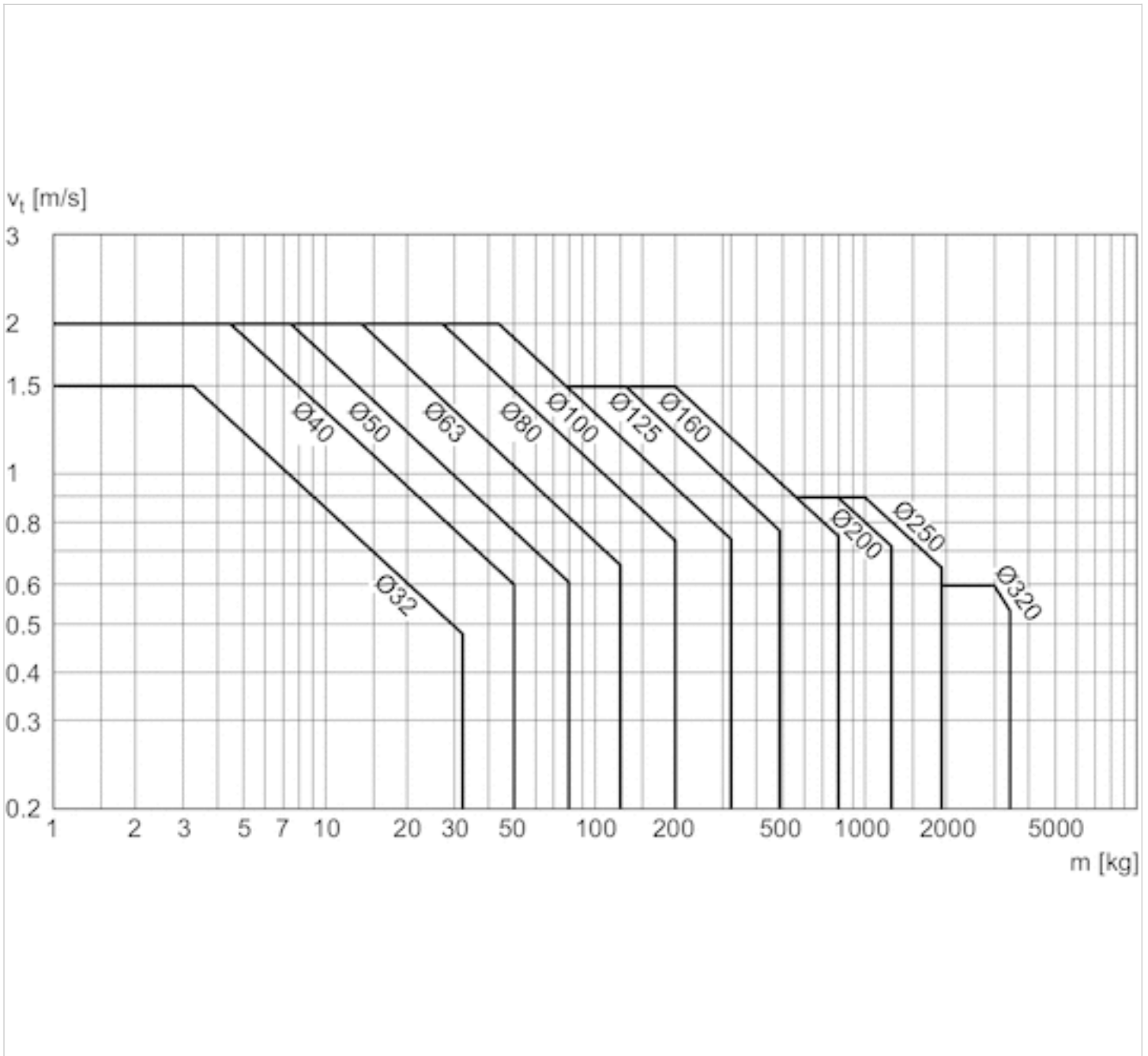
Piston Ø	A-2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5
40 mm	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25	18	6
50 mm	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5	24	8
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8
80 mm	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5	30	10

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW
100 mm	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5	30	10
125 mm	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2	41	13.5

Piston Ø	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD	WH
32 mm	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5	26±1,4
40 mm	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5	30±1,4
50 mm	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5	37±1,4
63 mm	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5	37±1,8
80 mm	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5	46±1,8
100 mm	25	25	36	0	138±1	M10	22	89±0,7	4	5	51±1,8
125 mm	32	33	45	0	160±1	M12	27	110±1,1	6	7	65±2,2

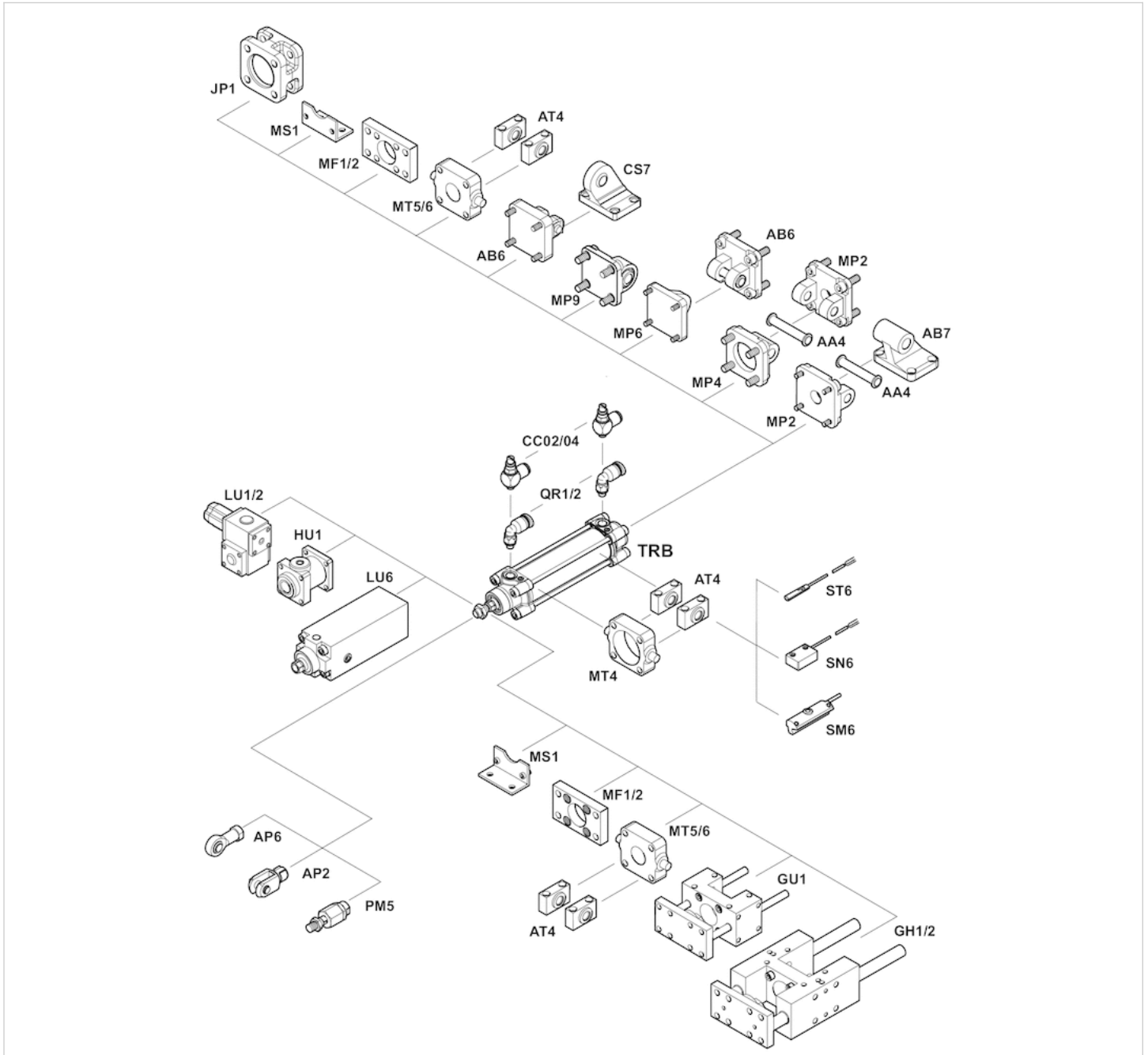
Diagrams

Cushioning diagram



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

Accessories overview



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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