

Series CP95 Guide Units

- Ball bush and Slide Bearing options.
- High resistance to side load.
- High non-rotating accuracy.
- Direct Mounting facility.
- Stroke adjusting unit option. Ø32-Ø63



How to order: Guide Units

Slide bearing type

GUM (F) -

Bore Size (mm)	Stroke (mm)
32 Ø32	25
40 Ø40	50
50 Ø50	80
63 Ø63	100
80 Ø80	125
100 Ø100	160
	200
	250
	320
	400
	500

Bush bearing type

GUL (F) -

Bore Size (mm)	Stroke (mm)
32 Ø32	25
40 Ø40	50
50 Ø50	80
63 Ø63	100
80 Ø80	125
100 Ø100	160
	200
	250
	320
	400
	500

How to order: Stroke Adjusting Unit* and Shock Absorber*

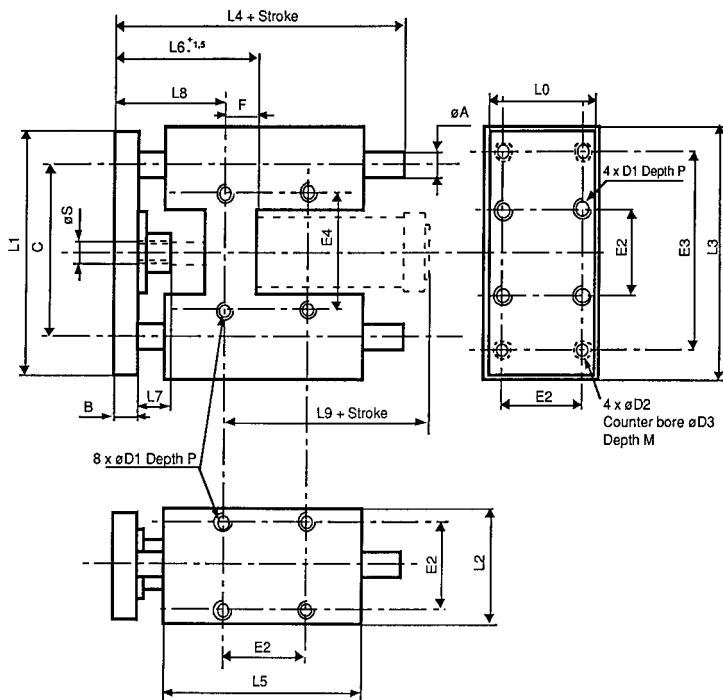
Cylinder Bore Size (mm)	Part Number Stroke adjusting unit	Shock absorber
32	SFY(F)133	RBC1412
40	SFY(F)134	RBC2015
50	SFY(F)135	RBC2015
63	SFY(F)136	RBC2015

* Order separately

Series CP95

Dimensions GUM/GUL Guide Unit

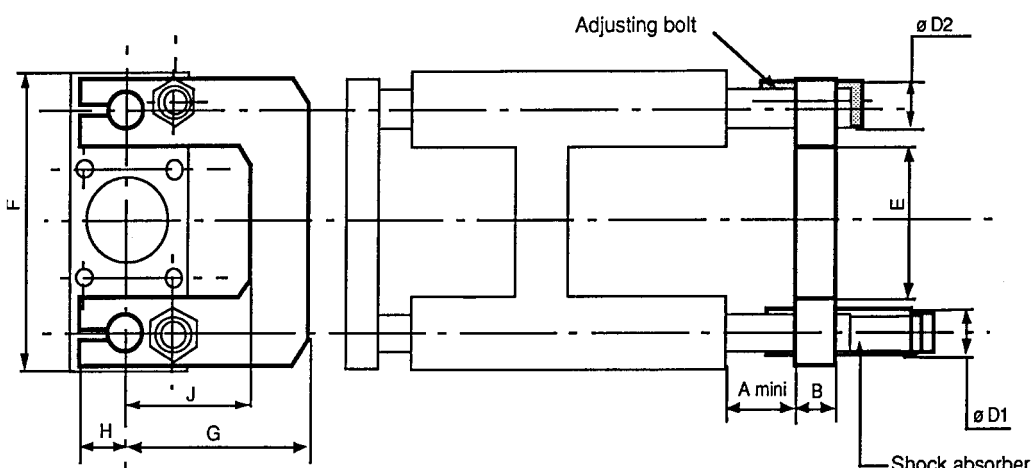
[mm]



Diameter	A	B	C	D1	D2	D3	E2	E3	E4	F	L0	L1	L2	L3L	L4	L5	L6	L7	L8	L9	M	P	S
32	12	12	74	m6	6.6	11	33	78	61	4	45	92	50	97	147	120	64	20	60	102	6.5	12	M10x1.25
40	16	15	87	M6	6.6	11	38	84	69	18	55	112	58	116	167	125	81	25	63	127	6	12	M12x1.25
50	20	19	104	M8	9	15	47	100	85	24	68	134	70	137	195	140	94	25	70	134	9	16	M16x1.5
63	20	19	119	M8	9	15	57	105	100	20	80	148	85	152	195	160	94	25	75	145	9	16	M16x1.5
80	25	22	148	M10	11	18	72	130	130	25	100	180	105	189	241	195	114	30	89	157	11	20	M20x1.5
100	25	22	173	M10	11	18	89	150	150	30	120	206	130	213	241	205	120	30	90	172	11	20	M20x1.5

Dimensions Stroke Adjusting Unit

[mm]



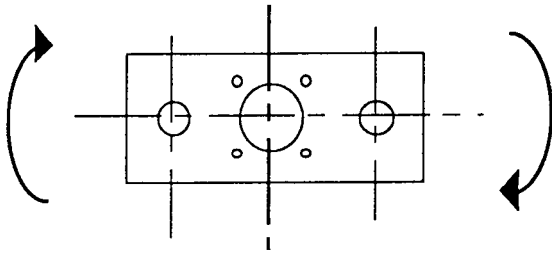
A minimum length will have to be added on for stroke adjusting unit.

(mm)

Diameter	Model	A	B	D1	D2	E	F	G	H	J	Min. add on stroke
ø32	SFY(F)133	35.5	15	M14x1.5	M8	51	95	78	17	53	51
ø40	SFY(F)134	45	20	M20x1.5	M10	59	114	87	25	62	65
ø50	SFY(F)135	45	25	M20x1.5	M10	72	135	98	28	68	70
ø63	SFY(F)136	45	25	M25x1.5	M10	86	150	118	28	88	70

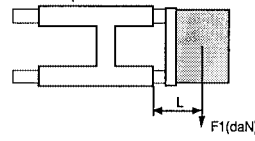
Series CP95

Permissible Rotary Torque Plate (Nm)



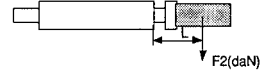
Diameter (mm)	Series	Stroke					
		50	100	200	300	400	500
32	GUM	11.4	7.5	4.0	2.7	2.2	-
32	GUL	6.0	4.5	3.1	2.3	1.8	-
40	GUM	21.7	16.6	9.9	7.0	5.1	3.6
40	GUL	11.1	8.4	5.7	4.35	3.48	2.9
50	GUM	37.4	28.7	15.3	11.5	9.1	6.7
50	GUL	18.5	14.5	10.0	7.6	5.9	4.7
63	GUM	47.6	36.1	20.1	13.9	10.7	8.0
63	GUL	22.6	17.9	12.7	9.8	8.0	6.4
80	GUM	81.4	65.1	42.1	28.8	21.8	17.3
80	GUL	45.5	37.2	27.3	21.6	17.8	15.1
100	GUM	95.1	76.1	49.3	33.7	25.5	20.3
100	GUL	53.1	43.5	32.0	25.2	20.8	17.7

Allowable Load [daN]



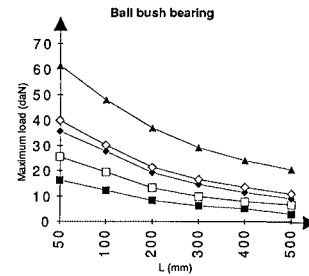
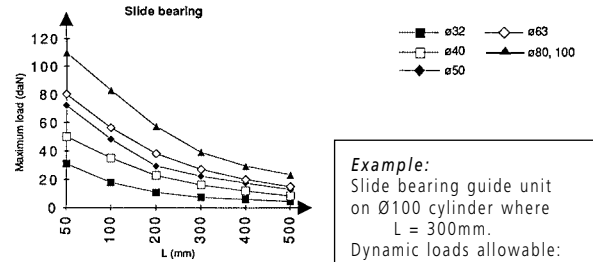
Dynamic load $F1 = \text{See Graphs}$

Static load $F3 = F1 \times 2$



Dynamic load $F2 = F1 \times 0.9$

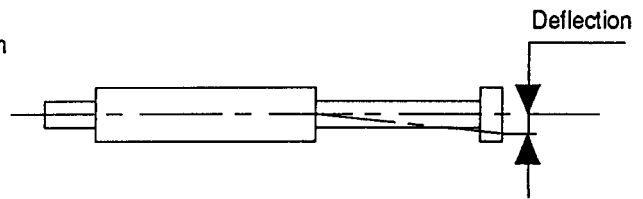
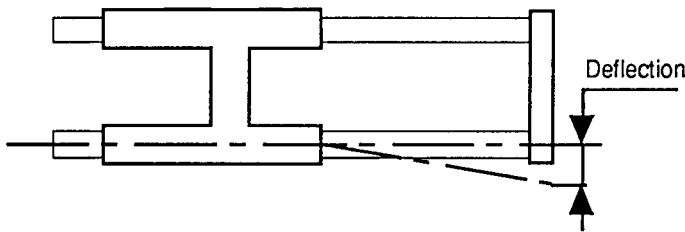
Static load $F4 = F2 \times 2$



Example:
Slide bearing guide unit on $\varnothing 100$ cylinder where $L = 300\text{mm}$.
Dynamic loads allowable:
 $F1 = 42\text{daN}$
and $F2 = 42 \times 0.9 = 36\text{daN}$
Static loads allowable:
 $F3 = 42 \times 2 = 84\text{daN}$
and $F4 = 36 \times 2 = 72\text{daN}$

Deflection (For max. allowable load)

[mm]



Diameter (mm)	Series	Stroke					
		50	100	200	300	400	500
32	GUM	0.09	0.32	1.06	2.10	3.90	-
32	GUL	0.05	0.20	0.80	1.80	3.30	-
40	GUM	0.05	0.19	0.70	1.50	2.40	3.30
40	GUL	0.02	0.10	0.40	0.90	1.60	2.60
50	GUM	0.03	0.12	0.38	0.90	1.50	2.10
50	GUL	0.015	0.06	0.25	0.57	1.00	1.50
63	GUM	0.04	0.15	0.47	0.96	1.60	2.30
63	GUL	0.018	0.07	0.30	0.70	1.20	1.80
80	GUM	0.03	0.10	0.36	0.70	1.15	1.69
80	GUL	0.015	0.06	0.24	0.54	0.95	1.50
100	GUM	0.03	0.10	0.36	0.70	1.15	1.69
100	GUL	0.015	0.06	0.24	0.54	0.95	1.50

The values are for maximum allowable load and are the same for both mounting examples shown.