Series 1450 - 1463 - Ø50 - Ø63

Pneumatic cylinder ISO 15552 handling and controlling movement by means of internal hydraulic circuit. All ISO fixing devices can be used except for:
- Cylinder Ø63 front clevis code 1463.63.08F
- Cylinder Ø63 front flange code 1463.63.03F
- Cylinder Ø63 foot code 1463.63.05/1F

Coding

14_.stroke._._ . _

Ø50
Ø63

Regulation
A = Regulation on extraction
B = Regulation on compression
D = Double regulation

STOP function
0 = None
A = Stop N.C. extraction
B = Stop N.C. compression
C = Double Stop N.C.
D = Stop N.O. extraction
E = Stop N.O. compression
F = Double Stop N.O.

SKIP function
0 = None
A = Skip N.C. extraction
B = Skip N.C. compression
C = Double Skip N.C.
D = Skip N.O. extraction
E = Skip N.O. compression
F = Double Skip N.O.

Construction characteristics

Barrel	aluminium alloy anodised
Hydraulic piston seal (hydraulic side)	PUR
Pneumatic piston seal (pneumatic side)	oil resistant NBR rubber
Rod and cushion seal	PUR
Magnetic piston	aluminium
Oil tank	aluminium
Piston rod	steel tube externally chrome plated
End caps	aluminium black anodised
Cushion adjustment screws	nickel plated steel

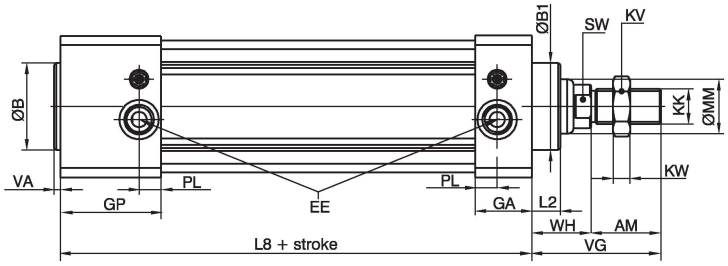
Operational characteristics

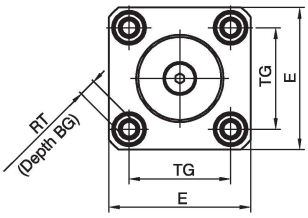
Pneumatic media	filtered and lubricated air
Hydraulic media	filtered 1μ hydraulic oil
SKIP & STOP valve minimum operating pressure	3 bar
Max. pressure	8 bar
Environment temperature	-5 °C ... +70 °C
Minimum regulated speed	40 mm/min. *
Maximum regulated speed	6000 mm/min. *
Speed with SKIP	150 mm/sec. *
Free speed (without regulation)	300 mm/sec. *
Cushioning lenght	20 mm
Standard stroke	from 50 to 450 steps 50 mm**
Possibility of rear regulation (on request)	

*** Attenction:** speed recorded with cylinder on horizontal position fed at 8 bar without load on piston rod.
** Strokes exceeding 450 mm (up to max. 750 mm) are only available after technical evaluation.

Bore	Force (N)	Pressure (bar)									
		1	2	3	4	5	6	7	8	9	10
50	Out	181,4	362,9	544,3	725,7	907,2	1088,6	1270	1451,5	1632,9	1814,3
	In	144,4	288,8	433,2	577,6	722	866,3	1010,7	1155,1	1299,5	1443,9
63	Out	294,6	589,1	883,7	1178,2	1472,8	1767,3	2061,9	2356,5	2651	2945,6
	In	211,3	422,6	633,9	845,2	1056,6	1267,9	1479,2	1690,5	1901,8	2113,1

Base cylinder dimensions

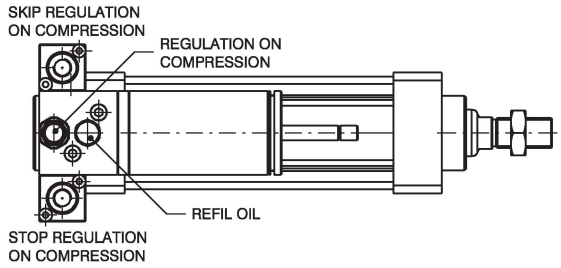




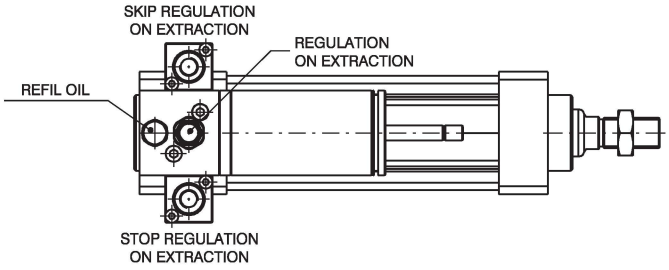
Bore	AM	B (d 11)	BG	E	EE	GA	GP	KK	KV	KW	L2	L8	MM	PL	RT	SW	TG	VA	VG	WH
50	32	40	16	65	G1/4"	26	46	M16x1,5	24	8	13	116	25	10	M8	17	46.5	3	59	27
63		50		75	G3/8"						20	121	35	12			56.5	4	69	37

Function valves and regulators position for the different versions

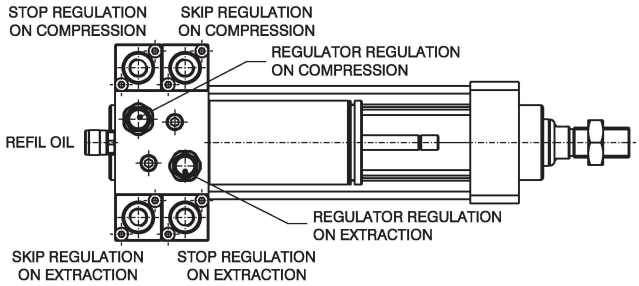
Compression



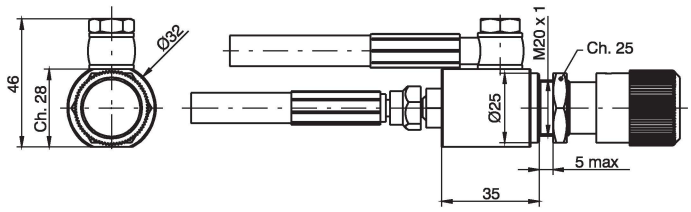
Extraction



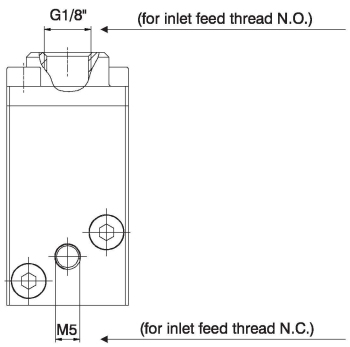
Double regulation



Rear regulator dimensions



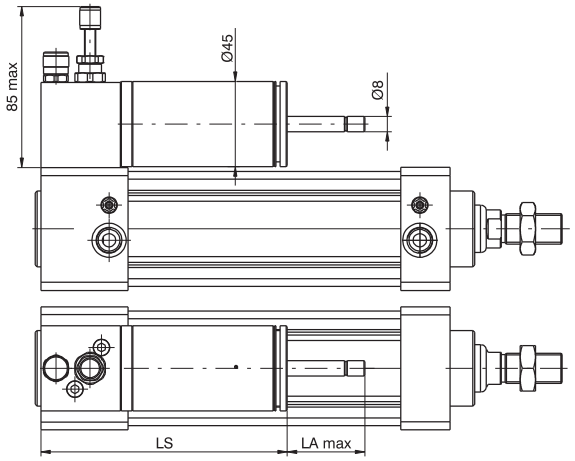
SKIP and STOP valves inlet feed position



Regulation on the outward stroke

Coding: 14Ø.stroke.A.0.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



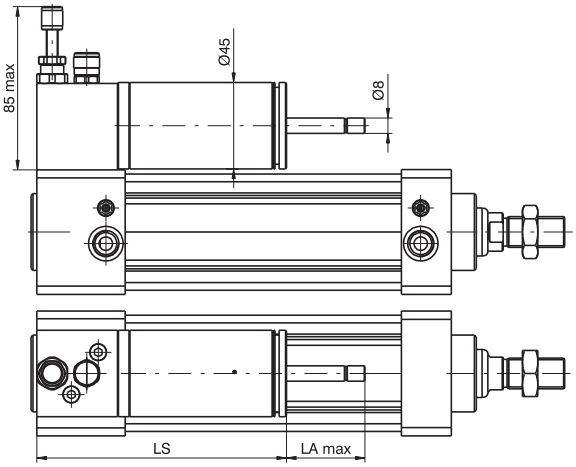
Weight
Ø50: 1970 g + 200 g every 50 mm stroke
Ø63: 2591 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the inward stroke

Coding: 14Ø.stroke.B.0.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



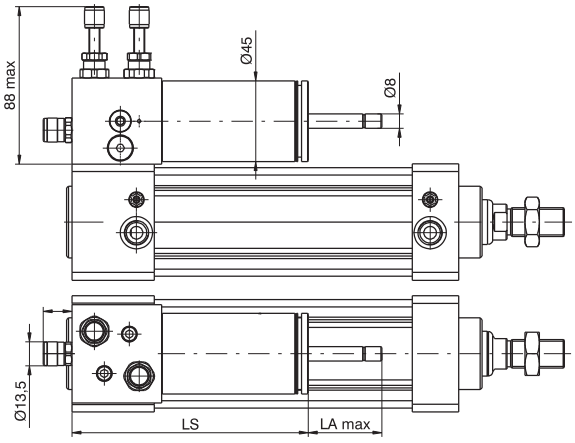
Weight
Ø50: 1970 g + 200 g every 50 mm stroke
Ø63: 2591 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation in both directions

Coding: 14Ø.stroke.D.0.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



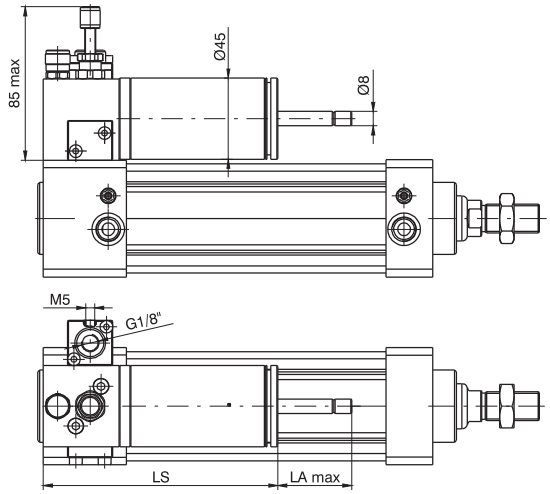
Weight
Ø50: 2128 g + 200 g every 50 mm stroke
Ø63: 2749 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	132	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the outward stroke with SKIP N.O.

Coding: 14Ø.stroke.A.0.D

	BORE
Ø	**50** = Ø50
	63 = Ø63



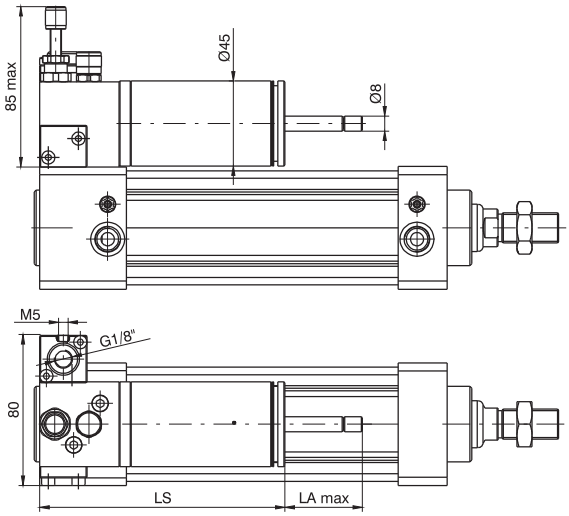
Weight
Ø50: 2059 g + 200 g every 50 mm stroke
Ø63: 2928 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the inward stroke with SKIP N.O.

Coding: 14Ø.stroke.B.0.E

	BORE
Ø	**50** = Ø50
	63 = Ø63



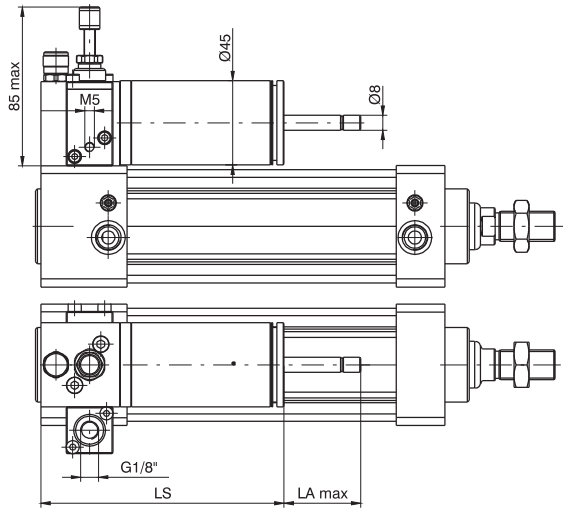
Weight
Ø50: 2059 g + 200 g every 50 mm stroke
Ø63: 2928 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the outward stroke with STOP N.O.

Coding: 14Ø.stroke.A.D.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



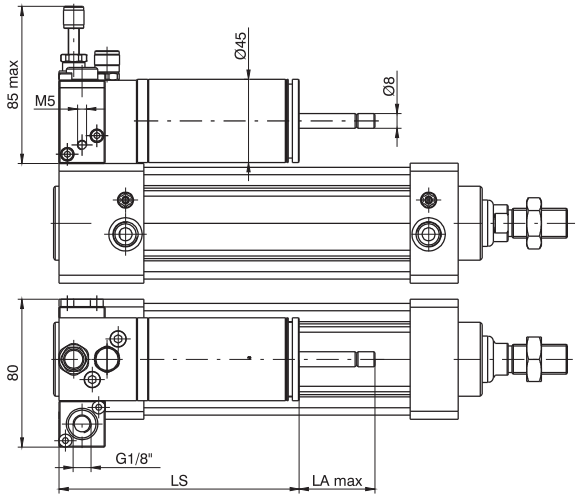
Weight
Ø50: 2059 g + 200 g every 50 mm stroke
Ø63: 2928 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the inward stroke with STOP N.O.

Coding: 14Ø.stroke.B.E.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



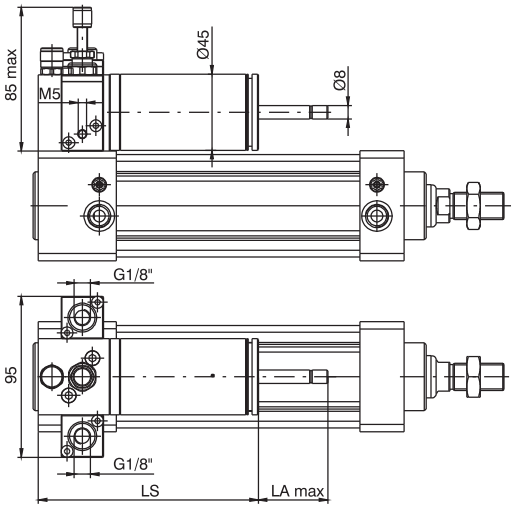
Weight
Ø50: 2059 g + 200 g every 50 mm stroke
Ø63: 2928 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the outward stroke with SKIP N.O. - STOP N.O.

Coding: 14Ø.stroke.A.D.D

	BORE
Ø	**50** = Ø50
	63 = Ø63



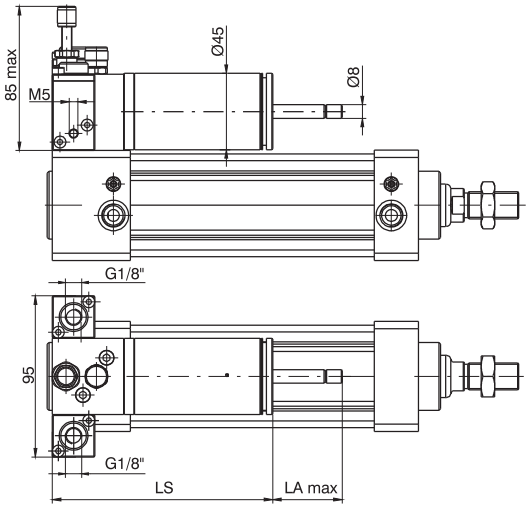
Weight
Ø50: 2140 g + 200 g every 50 mm stroke
Ø63: 2761 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation on the inward stroke with SKIP N.O. - STOP N.O.

Coding: 14Ø.stroke.B.E.E

	BORE
Ø	**50** = Ø50
	63 = Ø63



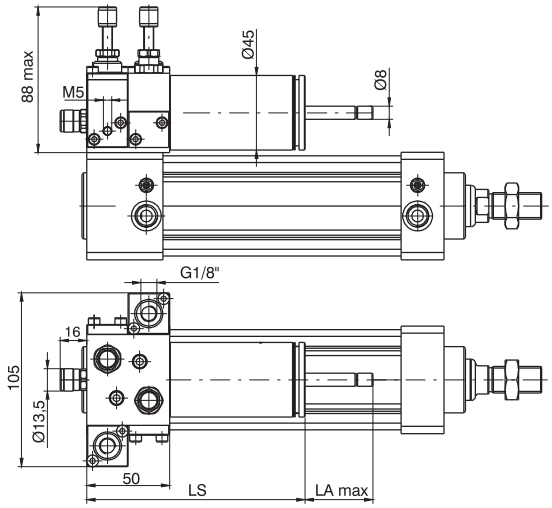
Weight
Ø50: 2140 g + 200 g every 50 mm stroke
Ø63: 2761 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	130	41
151 ... 350	185	66
351 ... 450	255	106

Regulation and SKIP in both directions (N.O. SKIP valves in both directions)

Coding: 14Ø.stroke.D.0.F

	BORE
Ø	**50** = Ø50
	63 = Ø63



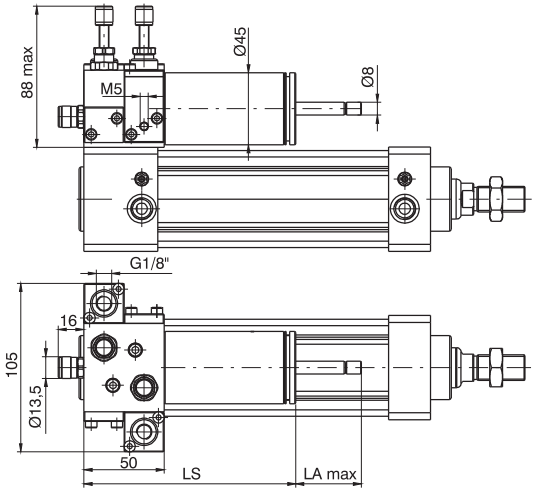
Weight
Ø50: 2311 g + 200 g every 50 mm stroke
Ø63: 2932 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	132	41
151 ... 350	187	66
351 ... 450	257	106

Regulation and STOP in both directions (N.O. STOP valves in both directions)

Coding: 14Ø.stroke.D.F.0

	BORE
Ø	**50** = Ø50
	63 = Ø63



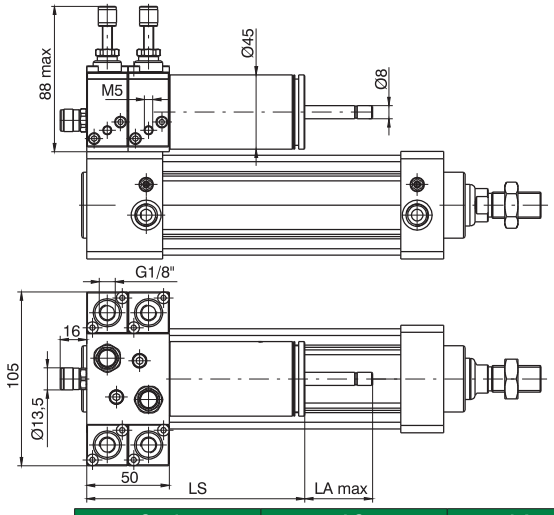
Weight
Ø50: 2311 g + 200 g every 50 mm stroke
Ø63: 2932 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	132	41
151 ... 350	187	66
351 ... 450	257	106

Regulation with SKIP and STOP in both directions (N.O. SKIP and STOP valves in both directions)

Coding: 14Ø.stroke.D.F.F

	BORE
Ø	**50** = Ø50
	63 = Ø63



Weight
Ø50: 2473 g + 200 g every 50 mm stroke
Ø63: 3094 g + 280 g every 50 mm stroke

Strokes	LS	LA max
0 ... 150	132	41
151 ... 350	187	66
351 ... 450	257	106