

Actuators

Cartridge Cylinders

Ø 6-16 mm



CA - CAF Series

Pg. 15.3

Mini Cylinders ISO 6432

Ø 8-25 mm



Mini Series

Pg. 15.5

Mini Stainless Steel ISO 6432

Ø 16-25 mm



Mini Stainless Steel Series

Pg. 15.14

Limited Space

Ø 32-63 mm



A95 Series

Pg. 15.17

Compact Cylinders

Ø 12-100 mm



Q Series

Pg. 15.24

ISO 15552 Cylinders

Ø 32-125 mm



L Series

Pg. 15.37

ISO 6431 Cylinders

Ø 160-320 mm



E Series

Pg. 15.44

ISO 15552 Cylinders

Ø 32-125 mm



X Series

Pg. 15.46

Stainless Steel ISO 15552

Ø 32-125 mm



V Series

Pg. 15.51

Twin Rod Cylinders

Ø 32-100 mm



NHA Series

Pg. 15.54

Compact Cylinders

Ø 20-100 mm



W Series

Pg. 15.58

Cylinder Accessories

ISO 6431 - ISO 15552 - ISO 21287



Pg. 15.66

Guided Units

ISO 15552 - Ø 12-25 mm
ISO 6431 VDMA - Ø 32-100 mm



Pg. 15.76

Rodless Cylinders

Ø 16-63 mm



R Series

Pg. 15.85

Rotary Actuators

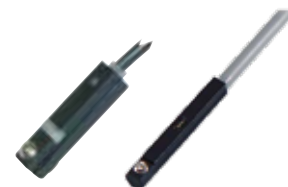
Ø 32-100 mm



XR Series

Pg. 15.96

Magnetic Position Sensing Switches



Sensor

Pg. 15.99

A collection of various AIGNEP pneumatic cylinders and actuators, including single-acting and double-acting models, arranged on a dark surface. One cylinder in the foreground has a label with the AIGNEP logo and technical specifications.

GUIDE UNITS



TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE

SILICON
FREE

ISO 6431 VDMA
(from 32 to 100)

ISO 6432
(from 20 to 25)

ISO 15552
(from 32 to 100)


Bores

from 12 to 100 mm



Standard Strokes

from 50 to 500 mm

Series

Ø (mm)

Stroke (mm)

M L C U B

0 1 2

0 0 5 0

- ◆ **MLCUB** Guide unit "U" with self lubricating sintered bronze bushings
- **MLCHB** Guide unit "H" with self lubricating sintered bronze bushings
- **MLCHC** Guide unit "H" with recirculating ball sleeves
- **VLCUB** Guide unit "U" with self lubricating sintered bronze bushings
- **VLCHB** Guide unit "H" with self lubricating sintered bronze bushings
- **VLCHC** Guide unit "H" with recirculating ball sleeves

012
020
025
032
040
050
063
080
100

0050
0100
0160
0200
0250
0320
0400
0500

Intermediate or longer strokes are available upon request.

Ø (mm)	Stroke (mm)							
	50	100	160	200	250	320	400	500
12 - 16	◆○	◆○	◆○	◆○	○			
20	◆○	◆○	◆○	◆○	○			
25	◆○	◆○	◆○	◆○	○			
32	●■	●■	●■	●■	●■	●■	●■	●■
40	●■	●■	●■	●■	●■	●■	●■	●■
50	●■	●■	●■	●■	●■	●■	●■	●■
63	●■	●■	●■	●■	●■	●■	●■	●■
80	●	●	●	●	●	●	●	●
100	●	●	●	●	●	●	●	●

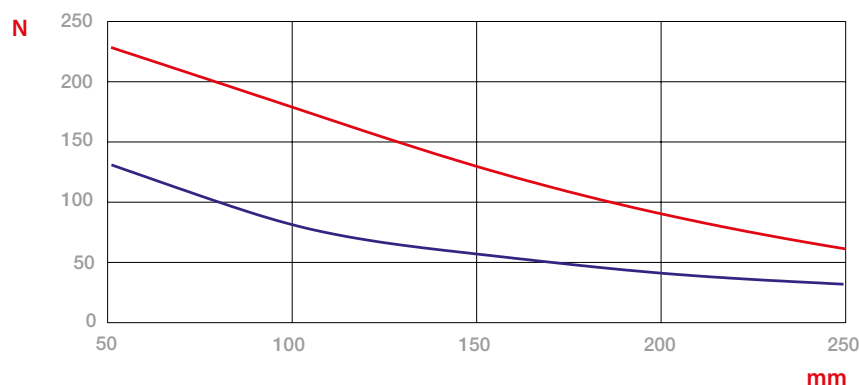
MAXIMUM LOADS
N
Max load

mm
Stroke

Art. MLCHB

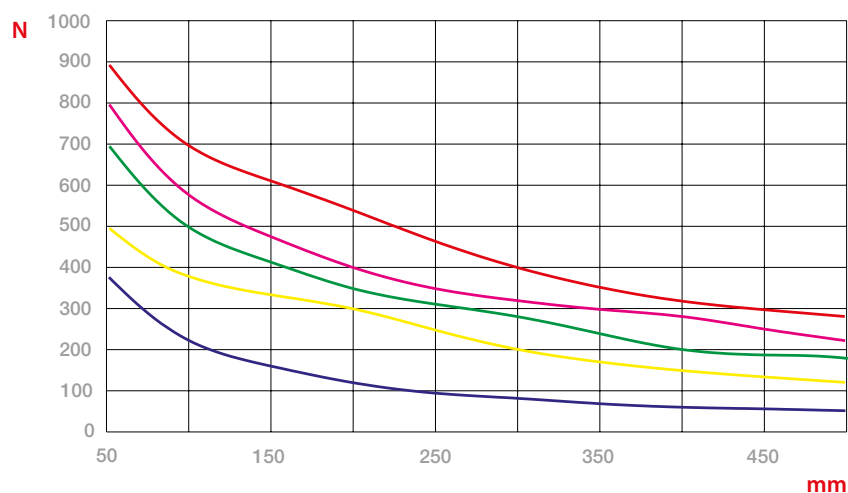
 Guide units with self lubricating
sintered bronze bushings

- Ø20 - Ø25
- Ø12 - Ø16


Art. VLCHB

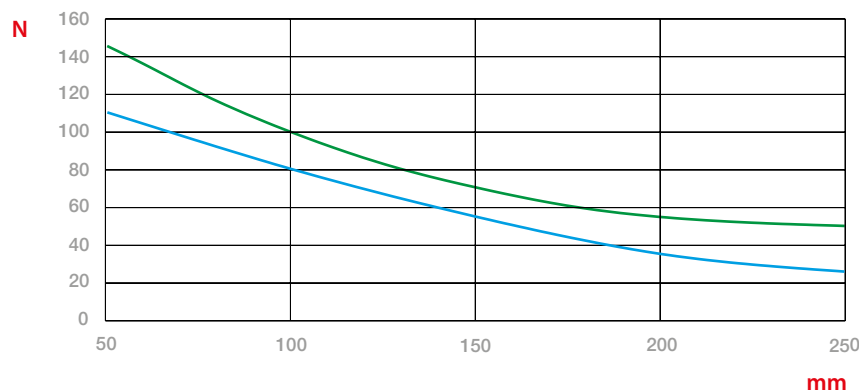
 Guide units with self lubricating
sintered bronze bushings

- Ø80 - Ø100
- Ø63
- Ø50
- Ø40
- Ø32


Art. MLCHC

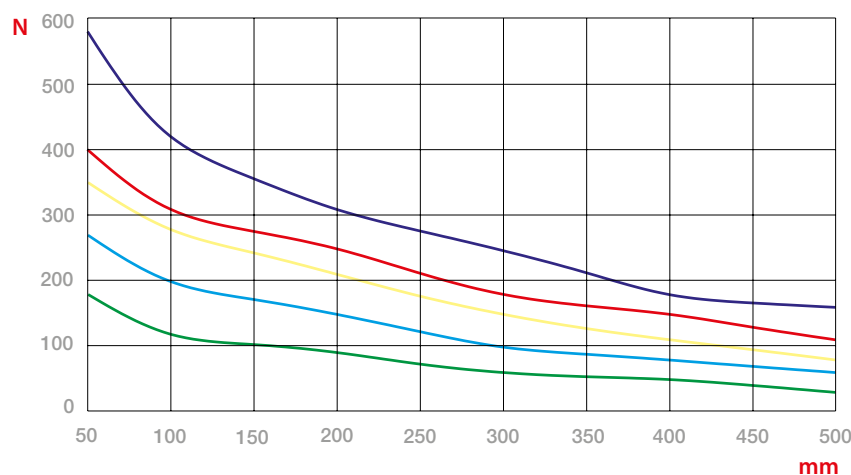
Guide units with recirculating ball bearing

- Ø20 - Ø25
- Ø12 - Ø16


Art. VLCHC

Guide units with recirculating ball bearing

- Ø80 - Ø100
- Ø63
- Ø50
- Ø40
- Ø32

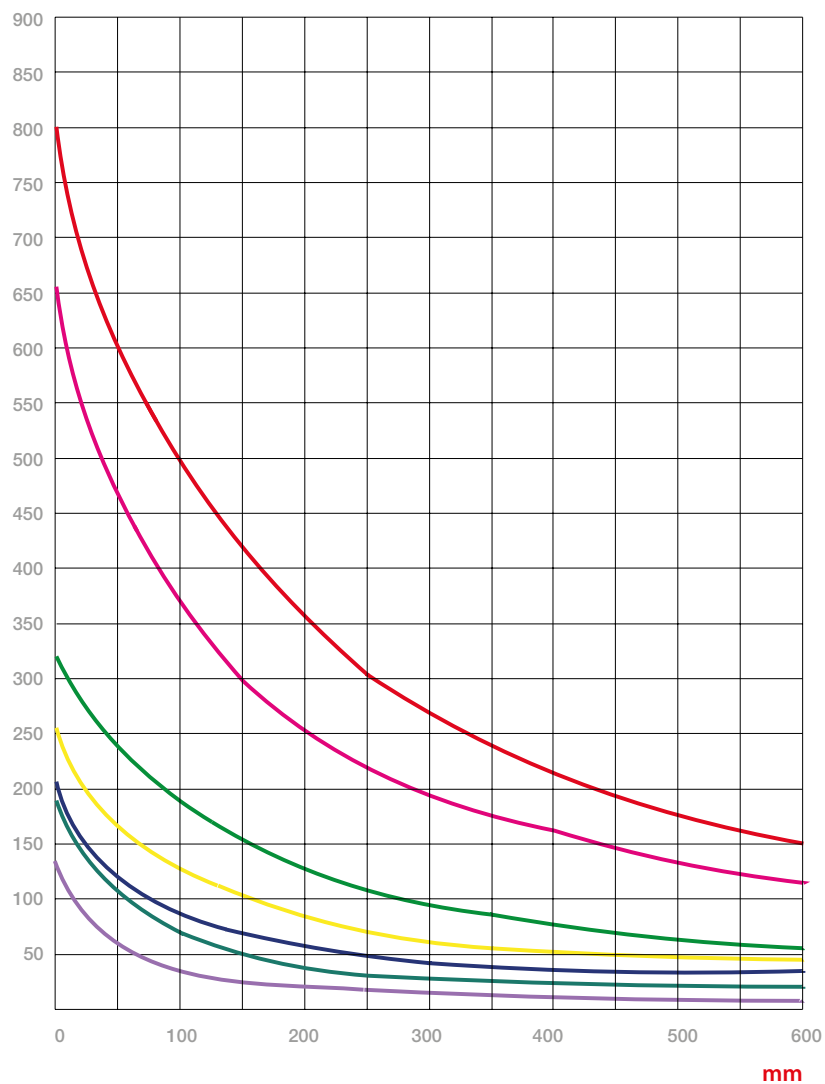


Art. VLCUB

N

Guide units with self lubricating
sintered bronze bushings

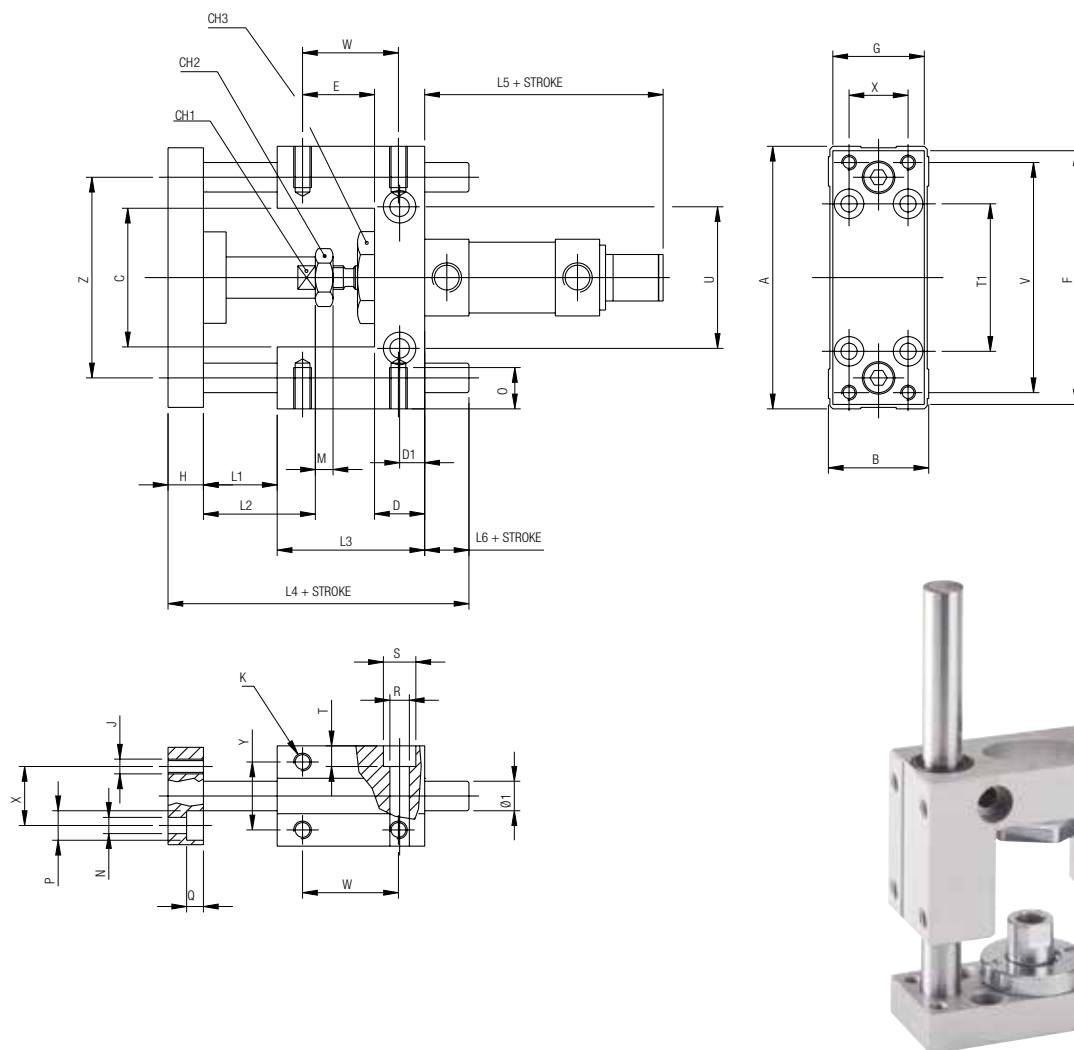
- Ø100
- Ø80
- Ø63
- Ø50
- Ø40
- Ø20-25-32
- Ø16



MLCUB

GUIDE UNIT "U" WITH SELF-LUBRICATING SINTERED BRONZE BUSHINGS

ISO 6432



Ø	A	B	C	CH1	CH2	CH3	D	D1	E	F	G	H	Ø1	J	K	L1	L2	L3	L4	L5	L6
12 - 16	69	30	30	8	10	24	12	5.5	19.5	66	29	10	10	M4	M4	3	15	38	66.5	73	15.5
20	79	34	37	12	13	27	17	8.75	24.25	78	32	12	12	M5	M6	5	18	48	83	87	18
25	79	34	37	12	17	27	17	8.75	24.25	78	32	12	12	M5	M6	5	18	48	83	91	18

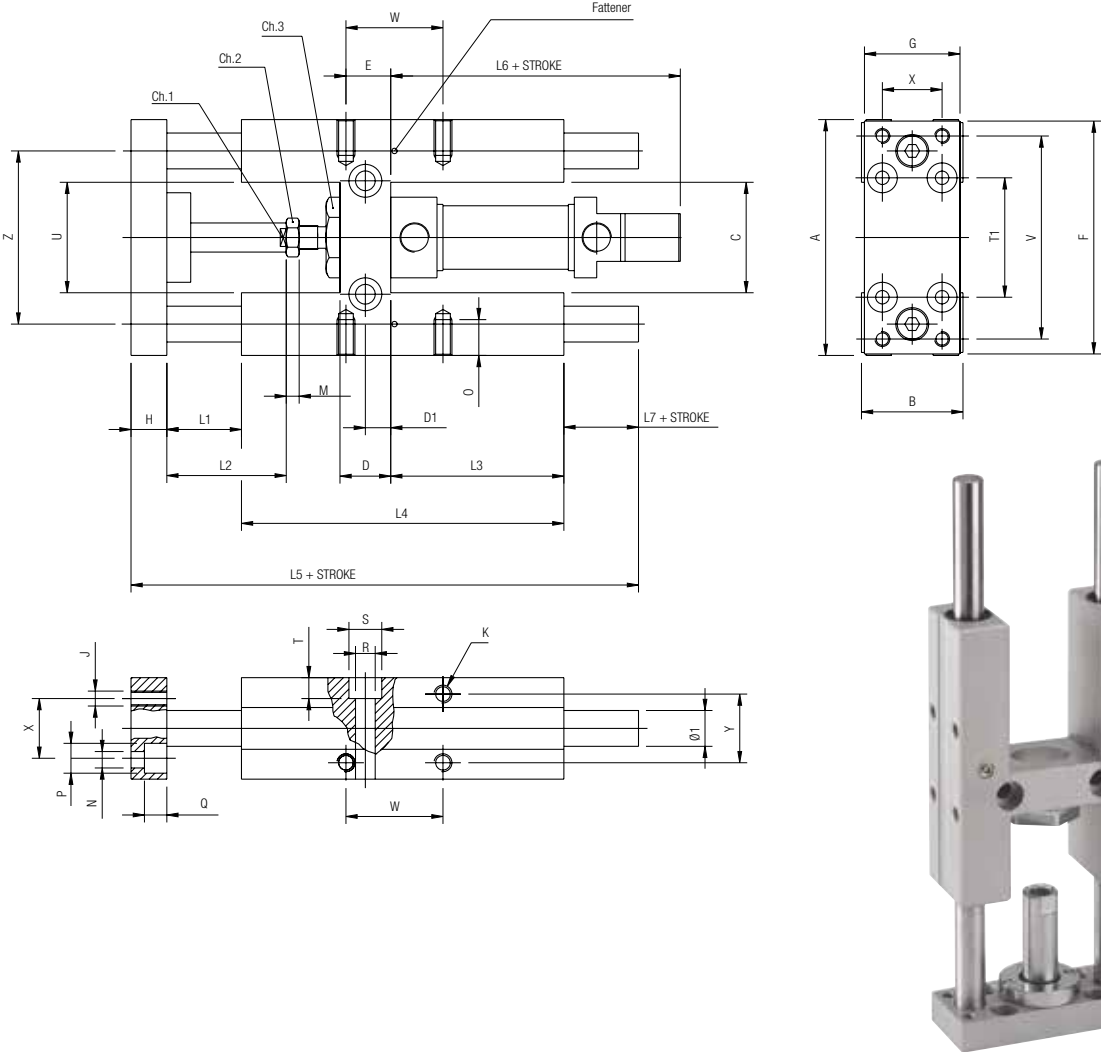
Ø	M	N	O	P	Q	R	S	T	T1	U	V	W	X	Y	Z
12 - 16	6	4.5	6	7.5	4.5	5.5	9	5.5	32	24	58	25	18	22	49.5
20	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58
25	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58

Ø (mm)	Stroke (mm)			
	50	100	160	200
12 - 16	▲	▲	▲	▲
20	▲	▲	▲	▲
25	▲	▲	▲	▲

MLCHB

GUIDE UNIT "H" WITH SELF-LUBRICATING SINTERED BRONZE BUSHINGS

ISO 6432



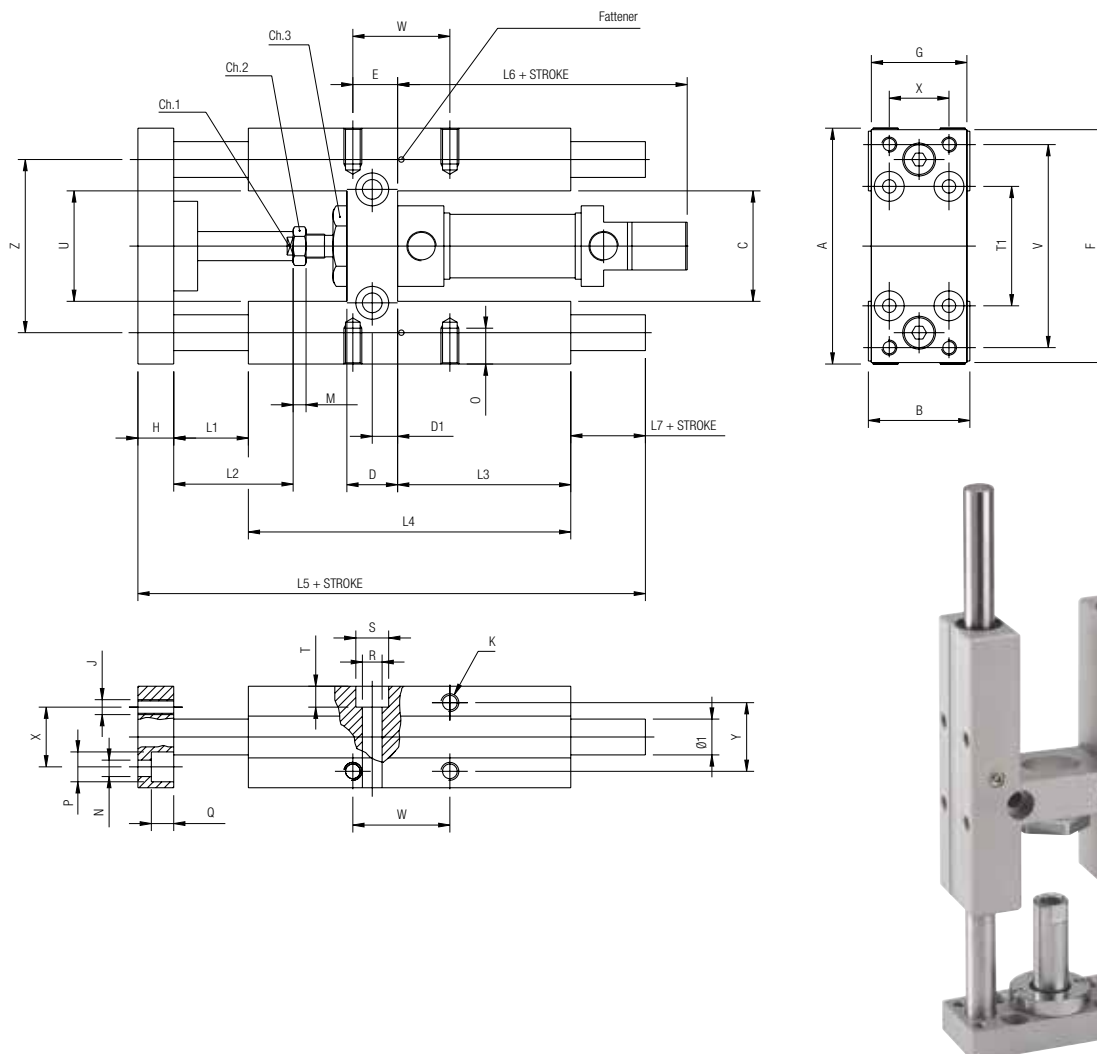
Ø	A	B	C	CH1	CH2	CH3	D	D1	E	F	G	H	Ø1	J	K	L1	L2	L3	L4	L5	L6
12 - 16	69	30	30	8	10	24	12	6	8	66	29	10	10	M4	M4	25	18	46	68	123.5	73
20	79	34	37	12	13	27	17	8.5	15	78	32	12	12	M5	M6	25	40	58	108	166	87
25	79	34	37	12	17	27	17	8.5	15	78	32	12	12	M5	M6	25	40	58	108	166	91
Ø	L7	M	N	O	P	Q	R	S	T	T1	U	V	W	X	Y	Z					
12 - 16	12	6	4.5	6	8	4.5	5.5	9	5.5	32	24	58	18	18	22	49.5					
20	10	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58					
25	10	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58					

Ø (mm)	Stroke (mm)				
	50	100	160	200	250
12 - 16	▲	▲	▲	▲	▲
20	▲	▲	▲	▲	▲
25	▲	▲	▲	▲	▲

MLCHC

GUIDE UNIT "H" WITH RECIRCULATING BALL BEARING SLEEVES

ISO 6432



Ø	A	B	C	CH1	CH2	CH3	D	D1	E	F	G	H	Ø1	J	K	L1	L2	L3	L4	L5	L6
12 - 16	69	30	30	8	10	24	12	6	8	66	29	10	10	M4	M4	25	18	46	68	123.5	73
20	79	34	37	12	13	27	17	8.5	15	78	32	12	12	M5	M6	25	40	58	108	166	87
25	79	34	37	12	17	27	17	8.5	15	78	32	12	12	M5	M6	25	40	58	108	166	91

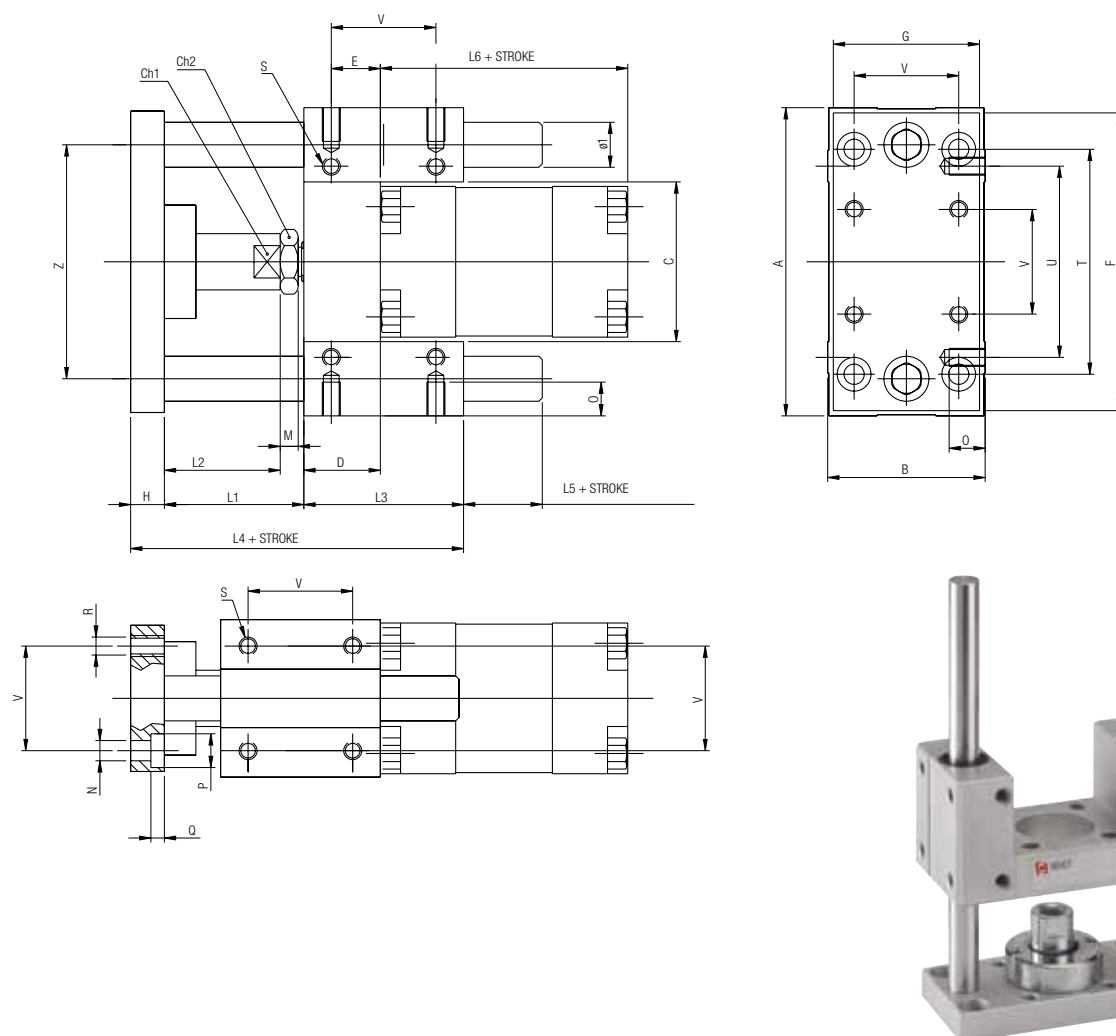
Ø	L7	M	N	O	P	Q	R	S	T	T1	U	V	W	X	Y	Z
12 - 16	12	6	4.5	6	8	4.5	5.5	9	5.5	32	24	58	18	18	22	49.5
20	10	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58
25	10	8	5.5	9	10	7.5	6.5	11	6.5	38	38	68	32.5	20	23	58

Ø (mm)	50	100	160	200	250
12 - 16	▲	▲	▲	▲	▲
20	▲	▲	▲	▲	▲
25	▲	▲	▲	▲	▲

VLCUB

GUIDE UNIT "U" WITH SELF-LUBRICATING SINTERED BRONZE BUSHINGS

ISO 15552



Ø	A	B	C	CH1	CH2	D	E	F	G	H	Ø1	L1	L2	L3	L4	L5	L6	M	N	O
32	97	49	51	15	17	17	9.25	93	45	12	12	42	25	48	102	18	97	8	6.6	12
40	115	58	58.5	15	19	21	11	112	55	12	16	43	24	58	113	17	109	7	6.6	12
50	137	70	70.2	20	24	25	18.8	134	65	15	20	49	30	59	123	20	110	6	9	16
63	152	85	85.2	20	24	25	15.3	147	80	15	20	49	30	76	140	21	125	6	9	16

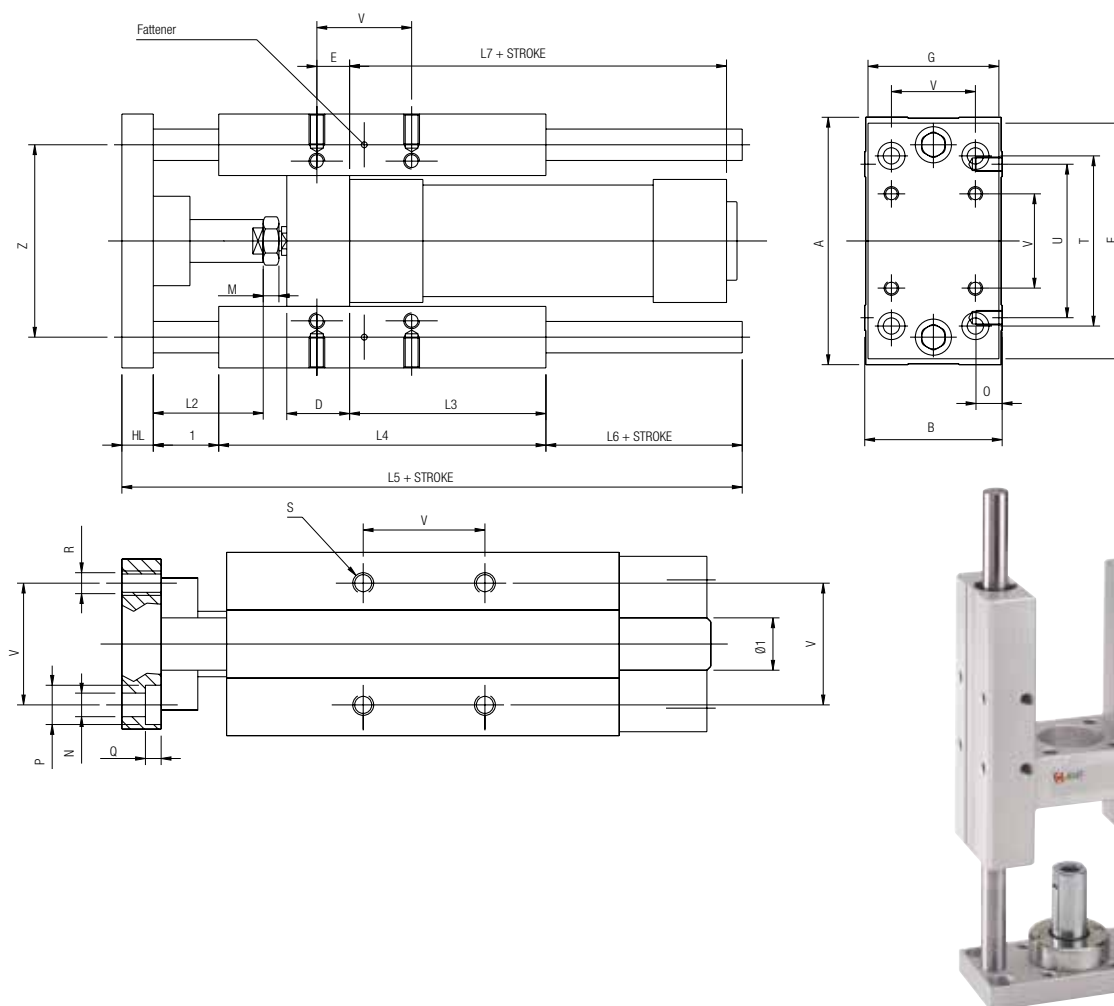
Ø	P	Q	R	S	T	U	V	Z
32	11	6.5	M6	M6	78	61	32.5	74
40	11	6.5	M6	M6	84	69	38	87
50	15	8.5	M8	M8	100	85	46.5	104
63	15	9	M8	M8	105	100	56.5	119

Ø (mm)	Stroke (mm)							
	50	100	160	200	250	320	400	500
32	▲	▲	▲	▲	▲	▲	▲	▲
40	▲	▲	▲	▲	▲	▲	▲	▲
50	▲	▲	▲	▲	▲	▲	▲	▲
63	▲	▲	▲	▲	▲	▲	▲	▲

VLCHB

ISO 15552

GUIDE UNIT "H" WITH SELF-LUBRICATING SINTERED BRONZE BUSHINGS



Ø	A	B	C	CH1	CH2	D	E	F	G	H	Ø1	L1	L2	L3	L4	L5	L6	L7	M	N	O
32	97	49	51	15	17	24	4.3	93	45	12	12	25	42	75	125	187	25	97	8	6.6	12
40	115	58	58.2	15	19	28	11	112	55	12	16	25	42	80	140	207	30	109	7	6.6	12
50	137	70	70.2	20	24	34	18.8	134	65	15	20	25	50	78	148	223	35	110	6	9	16
63	152	85	85.2	20	24	34	15.3	147	80	15	20	25	50	106	178	243	25	125	6	9	16
80	189	105	105.5	26	30	50	25	180	100	20	25	25	50	111	195	267	27	133	9	11	20
100	213	130	130.5	26	30	55	30	206	120	20	25	25	50	128	218	290	27	144	9	11	20

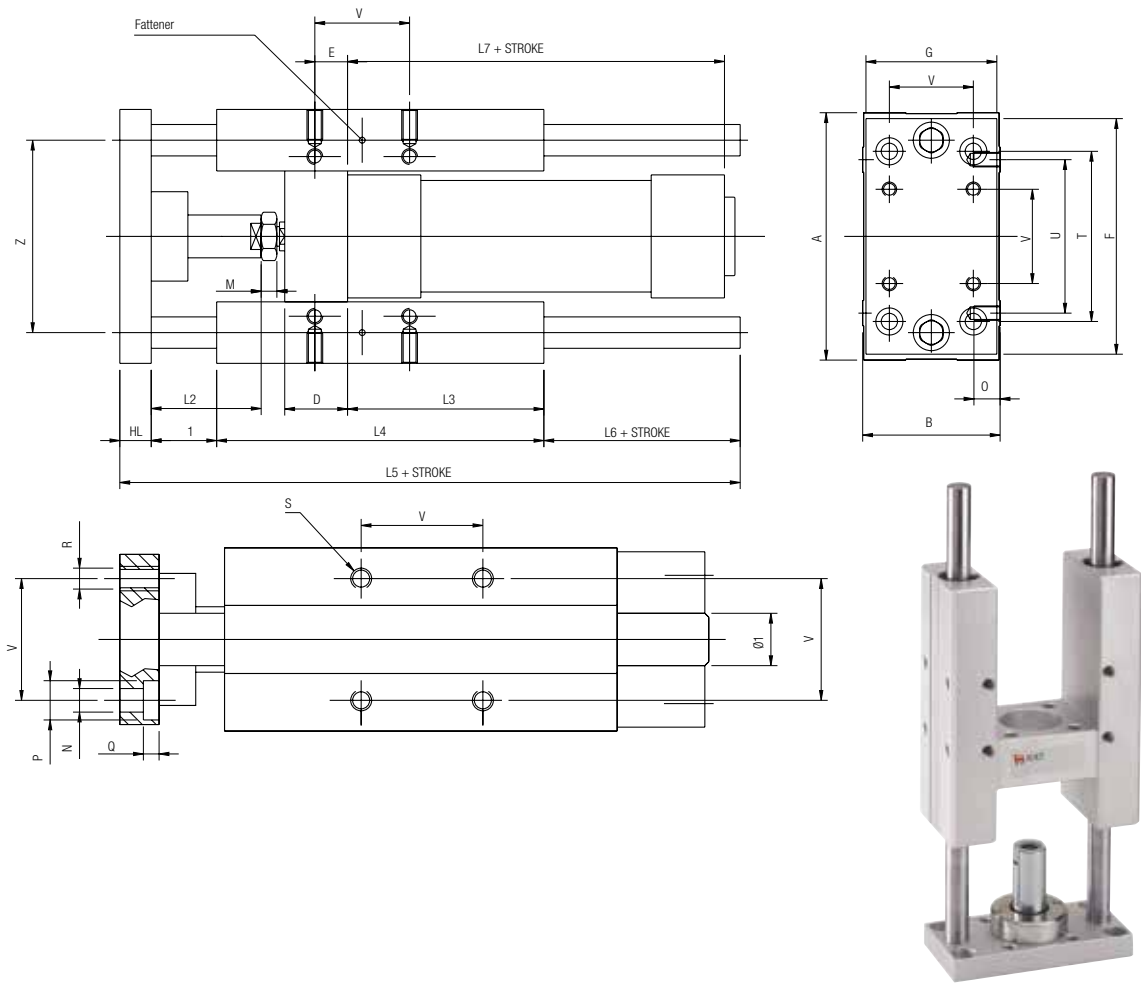
Ø	P	Q	R	S	T	U	V	Z
32	11	6.5	M6	M6	78	61	32.5	74
40	11	6.5	M6	M6	84	69	38	87
50	15	8.5	M8	M8	100	85	46.5	104
63	15	9	M8	M8	105	100	56.5	116
80	18	11	M10	M10	130	130	72	148
100	16.5	11	M10	M10	150	150	89	173

Ø (mm)	Stroke (mm)							
	50	100	160	200	250	320	400	500
32	▲	▲	▲	▲	▲	▲	▲	▲
40	▲	▲	▲	▲	▲	▲	▲	▲
50	▲	▲	▲	▲	▲	▲	▲	▲
63	▲	▲	▲	▲	▲	▲	▲	▲
80	▲	▲	▲	▲	▲	▲	▲	▲
100	▲	▲	▲	▲	▲	▲	▲	▲

VLCHC

GUIDE UNIT "H" WITH RECIRCULATING BALL BEARING SLEEVES

ISO 15552



Ø	A	B	C	CH1	CH2	D	E	F	G	H	Ø1	L1	L2	L3	L4	L5	L6	L7	M	N	O
32	97	49	51	15	17	24	4.3	93	45	12	12	25	42	75	125	187	25	97	8	6.6	12
40	115	58	58.2	15	19	28	11	112	55	12	16	25	42	80	140	207	30	109	7	6.6	12
50	137	70	70.2	20	24	34	18.8	134	65	15	20	25	50	78	148	223	35	110	6	9	16
63	152	85	85.2	20	24	34	15.3	147	80	15	20	25	50	106	178	243	25	125	6	9	16
80	189	105	105.5	26	30	50	25	180	100	20	25	25	50	111	195	267	27	133	9	11	20
100	213	130	130.5	26	30	55	30	206	120	20	25	25	50	128	218	290	27	144	9	11	20

Ø	P	Q	R	S	T	U	V	Z
32	11	6.5	M6	M6	78	61	32.5	74
40	11	6.5	M6	M6	84	69	38	87
50	15	8.5	M8	M8	100	85	46.5	104
63	15	9	M8	M8	105	100	56.5	116
80	18	11	M10	M10	130	130	72	148
100	16.5	11	M10	M10	150	150	89	173

Ø (mm)	Strokes (mm)							
	50	100	160	200	250	320	400	500
32	▲	▲	▲	▲	▲	▲	▲	▲
40	▲	▲	▲	▲	▲	▲	▲	▲
50	▲	▲	▲	▲	▲	▲	▲	▲
63	▲	▲	▲	▲	▲	▲	▲	▲
80	▲	▲	▲	▲	▲	▲	▲	▲
100	▲	▲	▲	▲	▲	▲	▲	▲