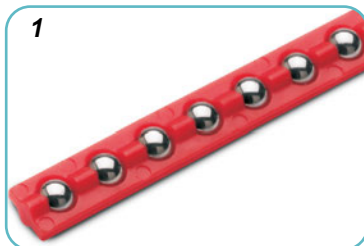


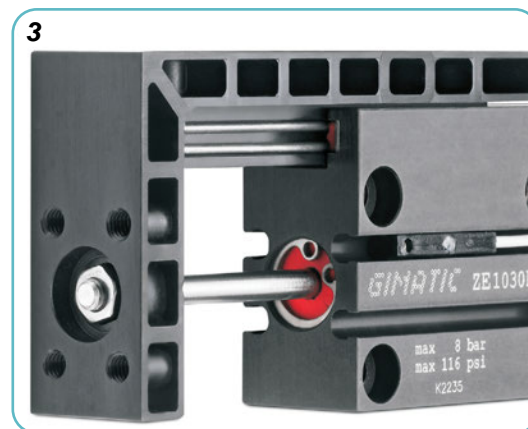
Mini-Slides – ZE-P

- Piston bore 6mm, 10mm, or 16mm
- Stroke 10mm, 20mm, 30mm
- Several fastening options.
- Double acting.
- Internal elastic bumpers.
- Optional Gimatic C-slot sensors, see page 785.



Features:

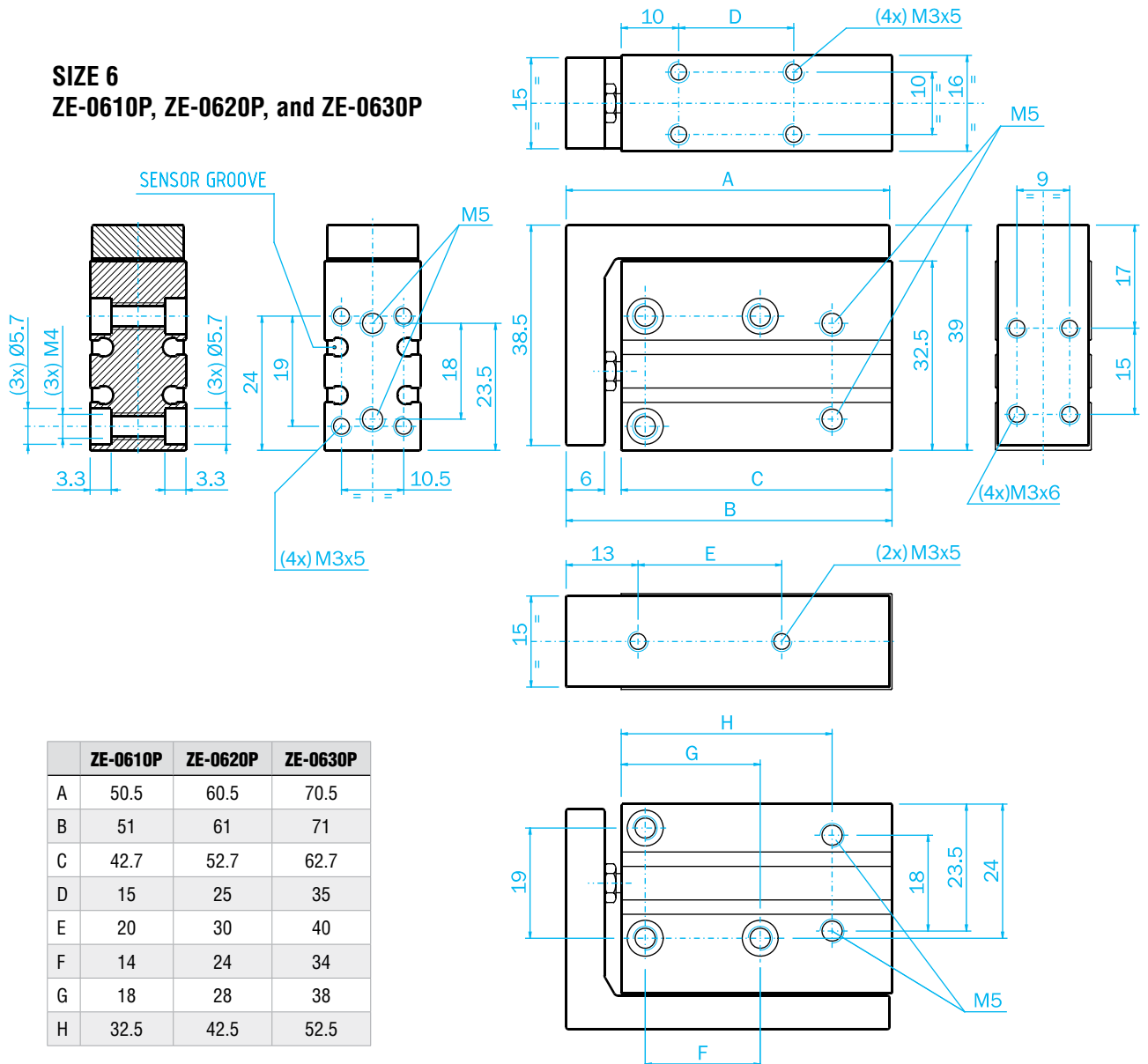
- 1- Linear ball bearings, encased in POM
- 2- Guide with built-in hardened and ground shafts
- 3- One-block carrier molded in a lightweight zinc alloy



Mini-Slides – ZE-P

(Dimensioned drawing reduced to fit)

SIZE 6
ZE-0610P, ZE-0620P, and ZE-0630P



	ZE-0610P	ZE-0620P	ZE-0630P
A	50.5	60.5	70.5
B	51	61	71
C	42.7	52.7	62.7
D	15	25	35
E	20	30	40
F	14	24	34
G	18	28	38
H	32.5	42.5	52.5

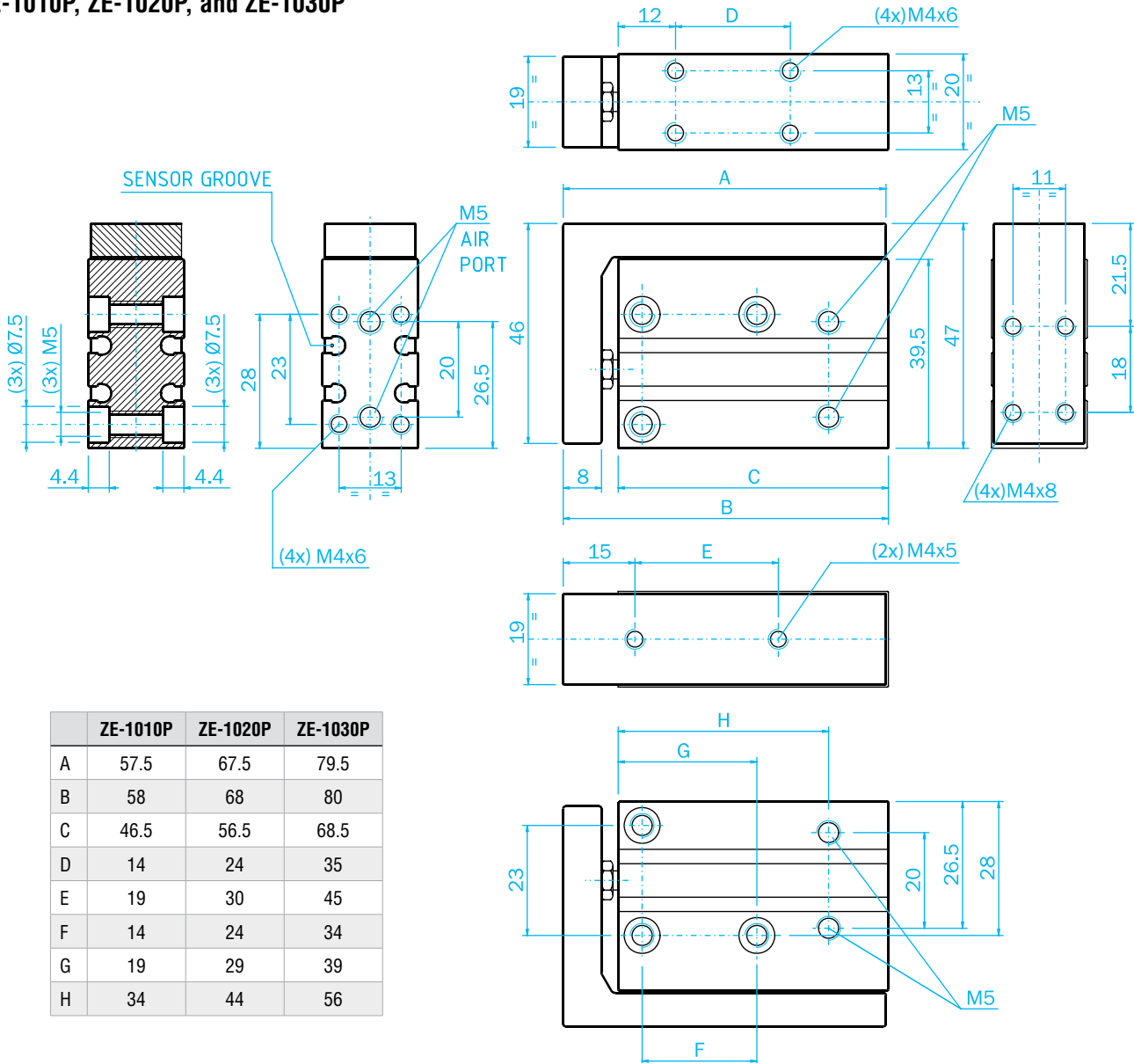
Quick#	6581	6582	6583
Part#	ZE-0610P	ZE-0620P	ZE-0630P
Price	\$160.00	\$161.00	\$163.00
Weight	90g	105g	120g
Minimum actuating time	0.015s	0.020s	0.030s
Maximum working frequency	3Hz		
Air consumption per cycle	0.7cm ³	1.3cm ³	1.9cm ³
Stroke (+ 1 mm)	10mm	20mm	30mm
Extension force at 87 psi	3 lbf		
Retraction force at 87 psi	2 lbf		
Pressure range	36–116 psi		



Mini-Slides – ZE-P

(Dimensioned drawing reduced to fit)

SIZE 10 ZE-1010P, ZE-1020P, and ZE-1030P



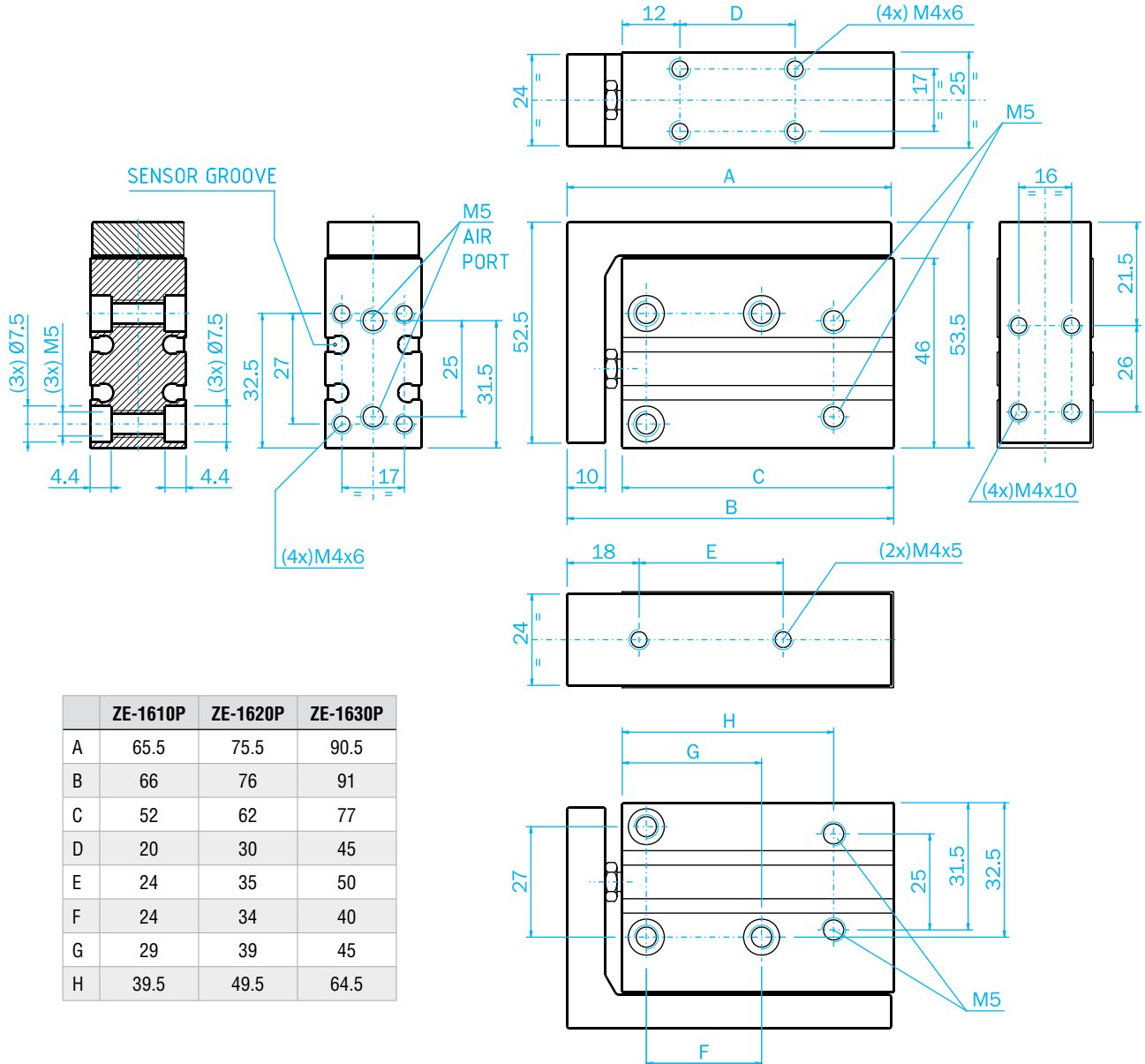
	ZE-1010P	ZE-1020P	ZE-1030P
A	57.5	67.5	79.5
B	58	68	80
C	46.5	56.5	68.5
D	14	24	35
E	19	30	45
F	14	24	34
G	19	29	39
H	34	44	56

Quick#	6584	6579	6585
Part#	ZE-1010P	ZE-1020P	ZE-1030P
Price	\$168.00	\$171.00	\$175.00
Weight	150g	175g	200g
Minimum actuating time	0.030s	0.050s	0.060s
Maximum working frequency	3Hz		
Air consumption per cycle	1.7cm ³	3.3cm ³	4.9cm ³
Stroke (+ 1 mm)	10mm	20mm	30mm
Extension force at 87 psi	9 lbf		
Retraction force at 87 psi	7 lbf		
Pressure range	36–116 psi		

Mini-Slides – ZE-P

(Dimensioned drawing reduced to fit)

SIZE 16
ZE-1610P, ZE-1620P, and ZE-1630P



	ZE-1610P	ZE-1620P	ZE-1630P
A	65.5	75.5	90.5
B	66	76	91
C	52	62	77
D	20	30	45
E	24	35	50
F	24	34	40
G	29	39	45
H	39.5	49.5	64.5

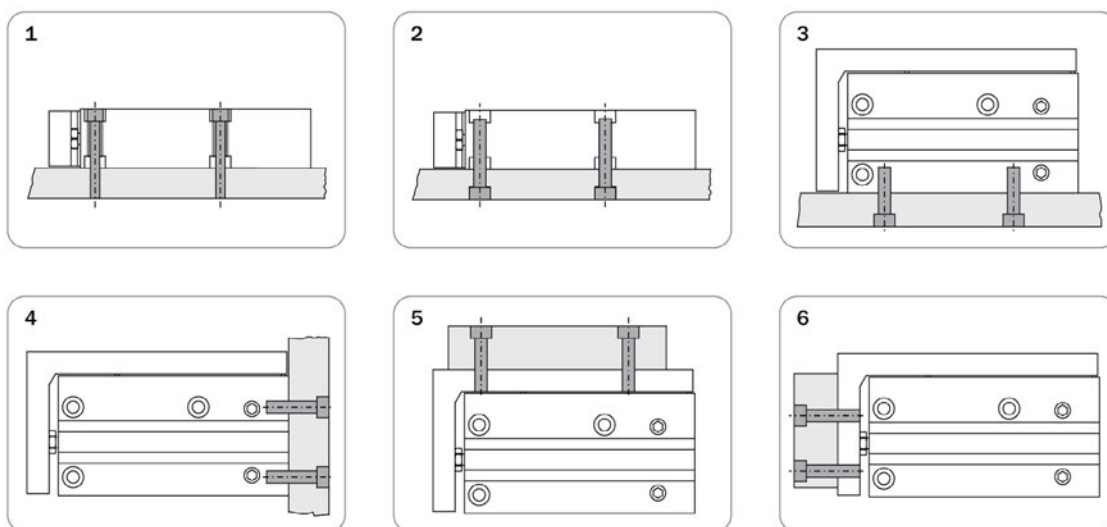
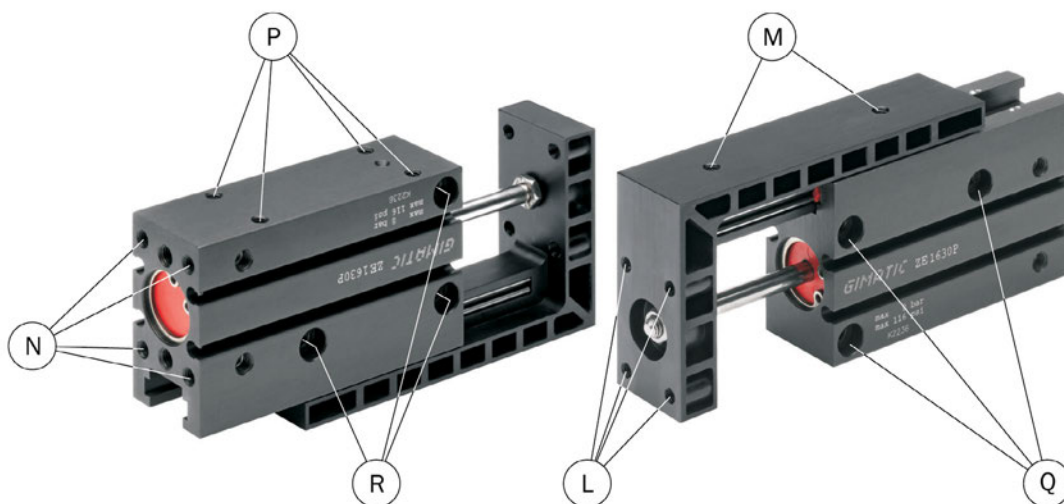
Quick#	6586	6587	6580
Part#	ZE-1610P	ZE-1620P	ZE-1630P
Price	\$194.00	\$198.00	\$203.00
Weight	265g	295g	340g
Minimum actuating time	0.050s	0.070s	0.090s
Maximum working frequency	3Hz		
Air consumption per cycle	4.4cm ³	8.3cm ³	12cm ³
Stroke (+ 1 mm)	10mm	20mm	30mm
Extension force at 87 psi	25 lbf		
Retraction force at 87 psi	22 lbf		
Pressure range	36–116 psi		

Mini-Slides – ZE-P

Fastening

The slide can be fastened to a stationary or moving part. When on a moving part, you must pay attention to the forces created by inertia over the slide and its load.

The slide housing can be fastened on four sides as shown in pictures 1–4. The load can be fastened on two sides of the carrier as shown in pictures 5 and 6.



	ZE-06...P	ZE-10...P	ZE-16...P
L	M3x6mm	M4x8mm	M4x10mm
M	M3x5mm	M4x5mm	M4x5mm
N	M3x5mm	M4x6mm	M4x6mm
P	M3x5mm	M4x6mm	M4x6mm
Q	Ø 5.7x3.3mm	Ø 7.5x4.4mm	Ø 7.5x4.4mm
R	M4	M5	M5

Mini-Slides – ZE-P

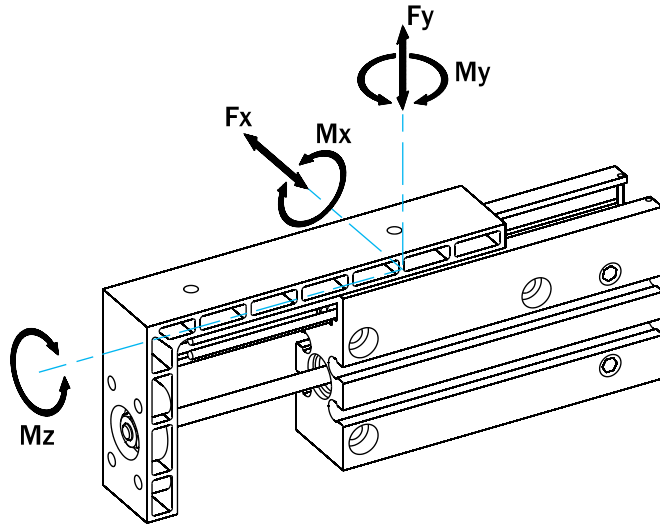
Safety loads

Check the tables below.
Excessive loads can damage the slide, cause functioning troubles, and endanger the safety of the operator.

$F_x s$, $F_y s$, $M_x s$, $M_y s$, $M_z s$ are maximum permitted static loads. $F_x d$, $F_y d$, $M_x d$, $M_y d$, $M_z d$ are maximum permitted dynamic loads.
It is also indicated the minimum actuating time 't' as a factor of the pay-load 'm'.

(*) When the actuating time and pay-load produce an excessive kinetic energy, the speed must be reduced by flow controllers (not supplied).

In any case, the pay-load 'm' is max.
100g (ZE06P), 250g (ZE10P), 500g (ZE16P).



	ZE-06...P	ZE-10...P	ZE-16...P
$F_x s$	10N	25N	50N
$F_y s$	10N	25N	50N
$M_x s$	1Nm	2Nm	3Nm
$M_y s$	1Nm	2Nm	3Nm
$M_z s$	1Nm	2Nm	3Nm
$F_x d$	1N	2.5N	5N
$F_y d$	1N	2.5N	5N
$M_x d$	0.2Nm	0.4Nm	0.6Nm
$M_y d$	0.2Nm	0.4Nm	0.6Nm
$M_z d$	0.2Nm	0.4Nm	0.6Nm
m max	100g	250g	500g

Reference:
Force: N x 0.225=lbf
Torque: Nm x 8.850=in-lbf
Torque: Ncm x 0.089=in-lbf
Pressure: bar x 14.5=psi

Minimum Actuating time as a factor of the payload

m	t ZE-0610P	t ZE-0620P	t ZE-0630P	t ZE-1010P	t ZE-1020P	t ZE-1030P	t ZE-1610P	t ZE-1620P	t ZE-1630P
10 g	15ms	28ms (*)	44ms (*)	30ms	50ms	60ms	50ms	70ms	90ms
40 g	18ms (*)	37ms (*)	57ms (*)	30ms	50ms	60ms	50ms	70ms	90ms
70 g	22ms (*)	45ms (*)	68ms (*)	30ms	50ms	61ms (*)	50ms	70ms	90ms
100 g	25ms (*)	51ms (*)	77ms (*)	30ms	50ms	68ms (*)	50ms	70ms	90ms
150 g	-	-	-	30ms	51ms (*)	78ms (*)	50ms	70ms	90ms
200 g	-	-	-	30ms	58ms (*)	87ms (*)	50ms	70ms	90ms
250 g	-	-	-	31ms (*)	63ms (*)	96ms (*)	50ms	70ms	90ms
300 g	-	-	-	-	-	-	50ms	70ms	94ms (*)
400 g	-	-	-	-	-	-	50ms	70ms	105ms (*)
500 g	-	-	-	-	-	-	50ms	76ms (*)	115ms (*)

Mini-Slides – ZE-P

Compressed air feeding

The compressed air feeding can be accomplished on the lateral or rear air ports with M5 fittings (not supplied).

Compressed air in S: extension stroke.

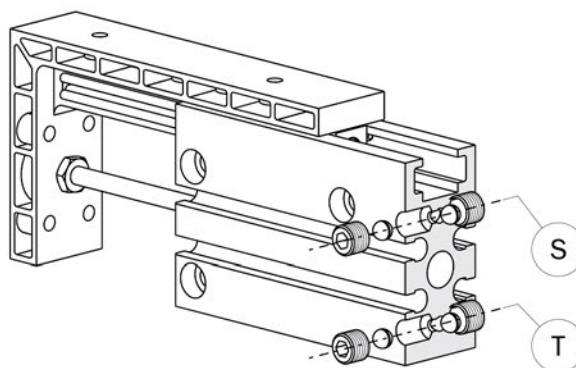
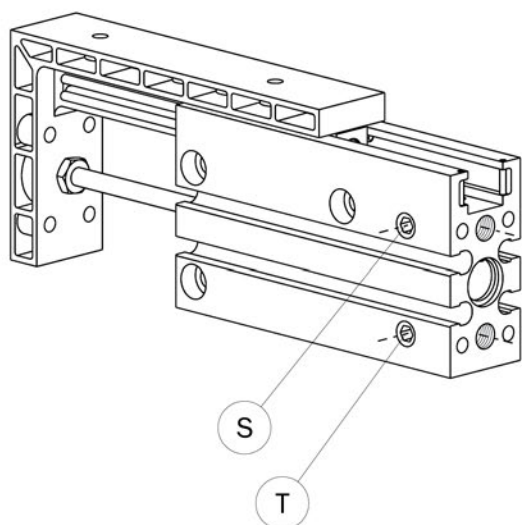
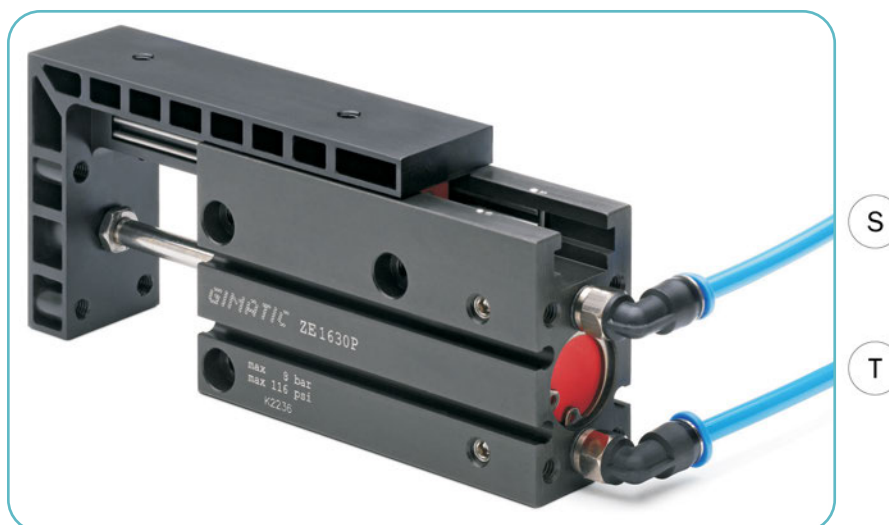
Compressed air in T: retraction stroke.

To ease application and provide mounting options, air lines can be connected in three possible locations. Two of the three sets of ports must be plugged with M5 plugs (supplied).

All Gimatic cylinders, grippers, and slides are shipped pre-lubricated, so applying lubricated air is not necessary.

A soft start is recommended to avoid uncontrolled movements.

Fittings Available
on page 1043



Mini-Slides – ZE-P

Sensors

The operating position can be checked by sensors (optional), that detect the inner magnet. Therefore, a nearby large mass of ferromagnetic material or intense magnetic fields may cause sensing troubles.



Sensor Type	Quick#	Part#	Signal	Connection	Price
90° Lead Exit SN Style Sensor	6278	SN4N225G	PNP	with lead, 2.5m long	\$27.20
	6357	SN4M225G	NPN	with lead, 2.5m long	\$27.20
	6277	SN3N203G	PNP	M8 Connector, 0.3m long	\$31.16
	6356	SN3M203G	NPN	M8 Connector, 0.3m long	\$31.16
3-wire SS Style Sensor	1882	SS4N225G	PNP	with lead, 2.5m long	\$27.20
	1883	SS4M225G	NPN	with lead, 2.5m long	\$27.20
	6282	SS3N203G	PNP	M8 Connector, 0.3m long	\$31.16
	1884	SS3M203G	NPN	M8 Connector, 0.3m long	\$31.16

See Sensor Reference Guide on page 1007 for a full list of compatible sensors.

