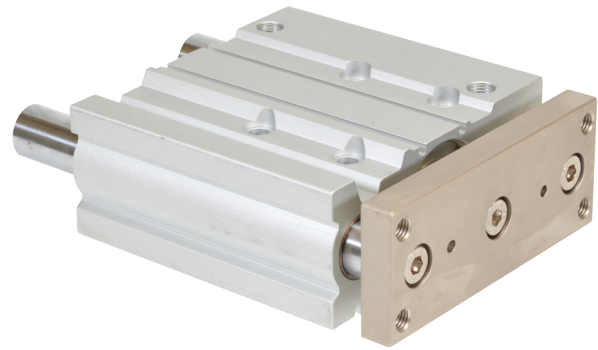


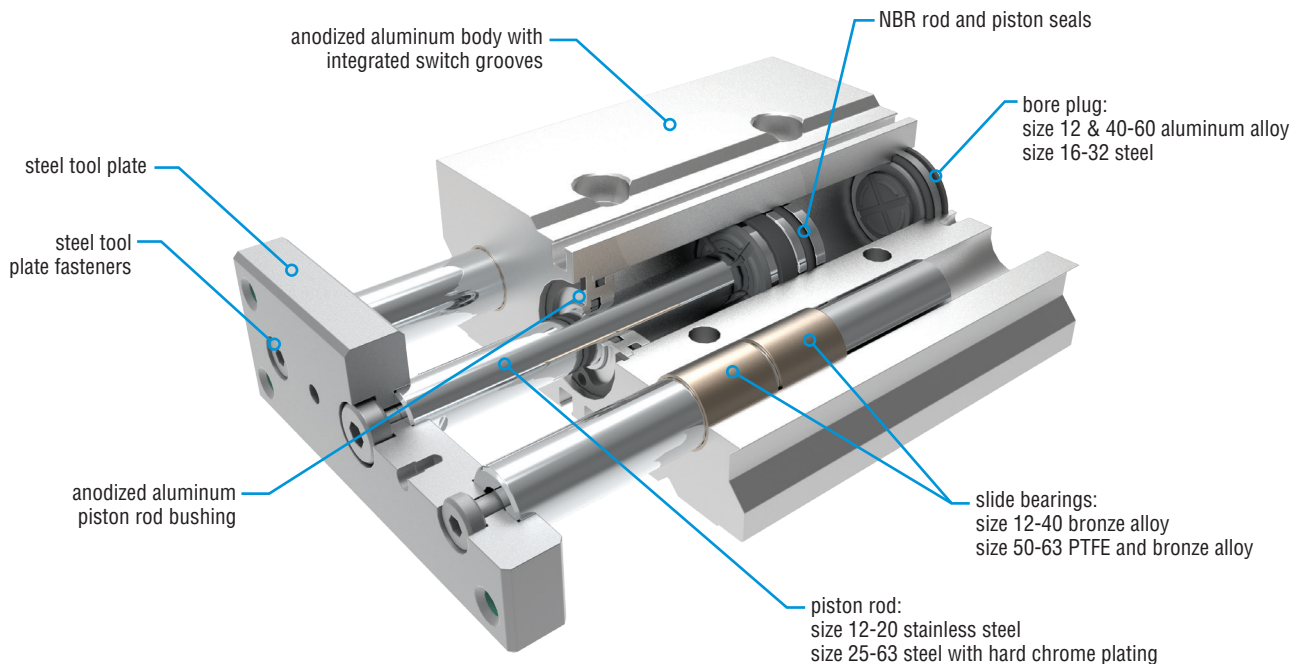
OSP

Major Benefits

- Port locations on top and side
- Standard shock pads reduce end of travel impact
- Magnets standard for switch sensing capability
- 8 bore sizes available in incremental travel lengths to fit a variety of applications
- Drop-in metric mounting matches global standard



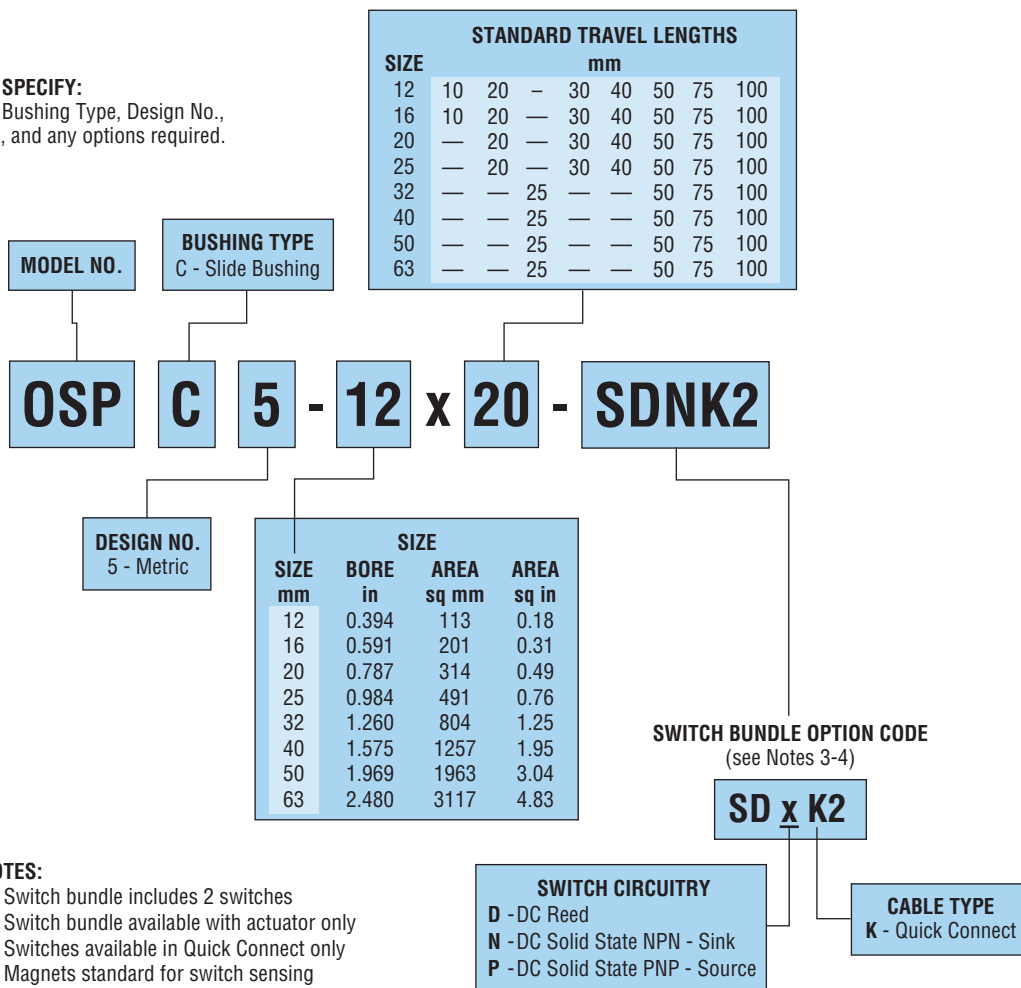
COMPONENT	MATERIALS
BODY	Anodized Aluminum Alloy
ROD BUSHING	
TOOL PLATE	Carbon Steel
TOOL PLATE FASTENERS	
SNAP RINGS	
GUIDE SHAFTS	
SLIDE BEARINGS	See Figure Above
PISTON ROD	
BORE PLUG	
ROD SEAL	
SHOCK PAD	NBR
PISTON SEAL	
O-RINGS	
PRESSED IN BALL PLUGS	Stainless Steel
PORT PLUGS	



NOTE: Unit view depicts less than 30 mm of travel

TO ORDER SPECIFY:

Model No., Bushing Type, Design No.,
Travel, Size, and any options required.



NOTES:

- 1) Switch bundle includes 2 switches
- 2) Switch bundle available with actuator only
- 3) Switches available in Quick Connect only
- 4) Magnets standard for switch sensing

SWITCHES

PART NO.	DESCRIPTION
86725-0	Reed DC 5-30 V, 50 mA, Quick Connect
86726-0	Sink Type (NPN), DC 5-30 V, 50 mA, Quick Connect
86727-0	Source Type (PNP), DC 5-30 V, 50 mA, Quick Connect

Includes one switch.

CORDSETS

MODEL NO.	CABLE LENGTH
63549-02	78.74 in [2 m]
63549-05	196.85 in [5 m]

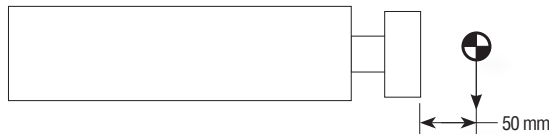
Includes one cordset.

CAD & Sizing Assistance

Use PHD's free online Product Sizing and
CAD Configurator at phdinc.com/myphd

SPECIFICATIONS	SERIES OSP SLIDE
OPERATING AIR PRESSURE	1 - 10 bar [14.5 - 145 psi]
OPERATING TEMPERATURE	5° - 60°C [41° - 140°F]
VELOCITY	50 - 500 mm/sec [2 - 20 in/sec]
RATED LIFE	3 million cycles
LUBRICATION	Factory lubricated for rated life

SIZE	ROD DIAMETER	EFFECTIVE AREA			BASE UNIT WEIGHT		ADDER PER 5 mm TRAVEL		RECOMMENDED MOUNTING TORQUES							
									BODY THRU & COUNTERBORE		BOTTOM BODY THREADS		REAR BODY THREADS		TOOL PLATE THREADS	
	mm	DIRECTION	mm ²	in ²	kg	lb	kg	lb	Nm	in-lb	Nm	in-lb	Nm	in-lb	Nm	in-lb
12	6	Extend	113	0.18	0.191	0.42	0.021	0.046	2.8	25	4.5	40	2.8	25	2.8	25
		Retract	85	0.13												
16	8	Extend	201	0.31	0.283	0.62	0.028	0.062	2.8	25	4.5	40	4.5	40	4.5	40
		Retract	151	0.23												
20	10	Extend	314	0.49	0.450	0.99	0.045	0.099	4.5	40	9	80	4.5	40	4.5	40
		Retract	236	0.37												
25	12	Extend	491	0.76	0.670	1.48	0.063	0.139	4.5	40	9	80	9	80	9	80
		Retract	378	0.59												
32	16	Extend	804	1.25	1.210	2.67	0.090	0.198	9	80	20	175	20	175	20	175
		Retract	603	0.93												
40	16	Extend	1257	1.95	1.474	3.25	0.088	0.194	9	80	20	175	20	175	20	175
		Retract	1056	1.64												
50	20	Extend	1963	3.04	2.540	5.60	0.140	0.309	20	175	39	345	39	345	39	345
		Retract	1649	2.56												
63	20	Extend	3117	4.83	3.345	7.37	0.157	0.346	20	175	39	345	39	345	39	345
		Retract	2803	4.34												



SIZE	MAXIMUM LATERAL LOAD [kg] BY TRAVEL [mm]							
	10	20	25	30	40	50	75	100
12	1.13	1.03	—	0.94	0.86	0.8	1.87	1.65
16	1.87	1.7	—	1.56	1.44	1.34	2.71	2.39
20	—	3.06	—	2.62	2.62	2.44	6.9	6.15
25	—	4.31	—	3.98	3.69	3.44	9.18	8.19
32	—	—	14.1	—	—	12.1	14.4	12.9
40	—	—	14.1	—	—	12.1	14.4	12.9
50	—	—	21.3	—	—	18.5	21.9	19.9
63	—	—	21.3	—	—	18.5	21.9	19.9

SIZE	WEIGHT OF MOVING COMPONENTS [kg] BY TRAVEL [mm]							
	10	20	25	30	40	50	75	100
12	0.12	0.13	—	0.14	0.15	0.16	0.2	0.23
16	0.16	0.18	—	0.19	0.21	0.22	0.29	0.33
20	—	0.33	—	0.35	0.38	0.4	0.52	0.58
25	—	0.52	—	0.56	0.6	0.64	0.84	0.95
32	—	—	1.07	—	—	1.23	1.42	1.58
40	—	—	1.14	—	—	1.3	1.49	1.65
50	—	—	2.15	—	—	2.4	2.75	3
63	—	—	2.5	—	—	2.75	3.09	3.35

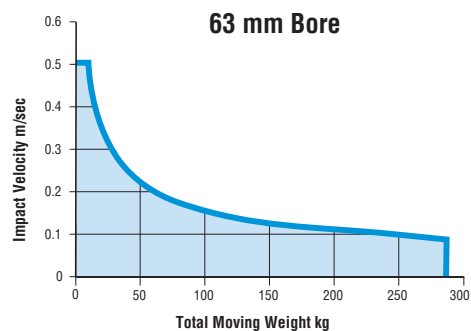
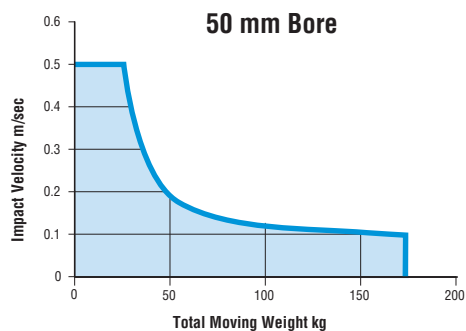
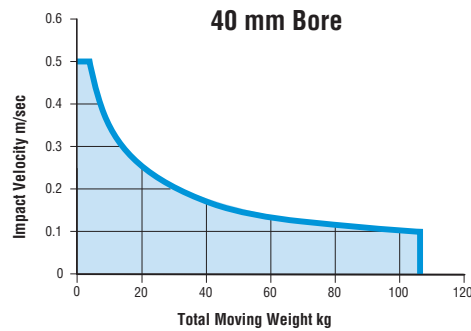
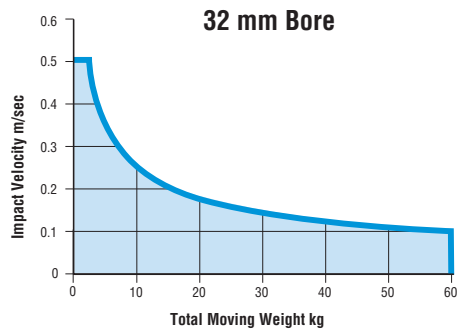
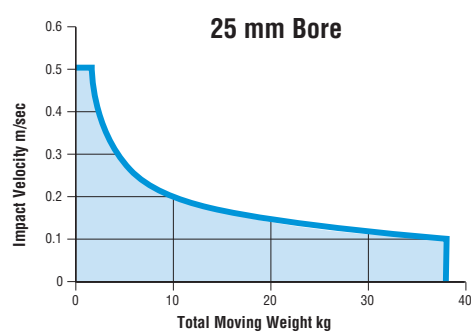
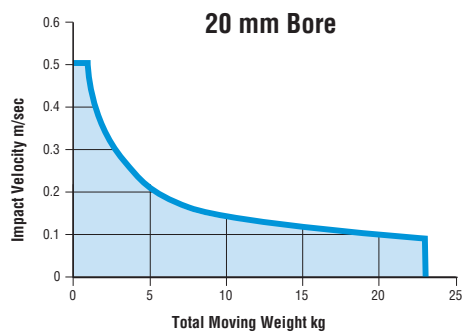
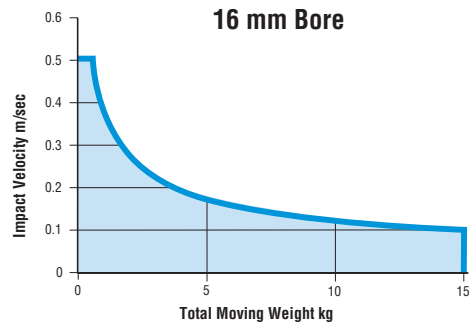
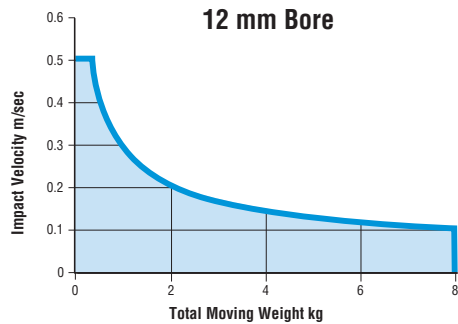
NOTES:

- 1) Attached load must not exceed maximum kinetic energy.
- 2) Maximum loads given are positioned 50 mm from face of tool plate.

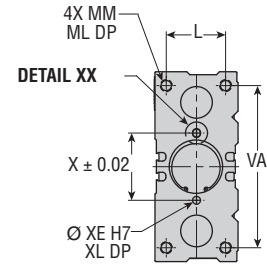
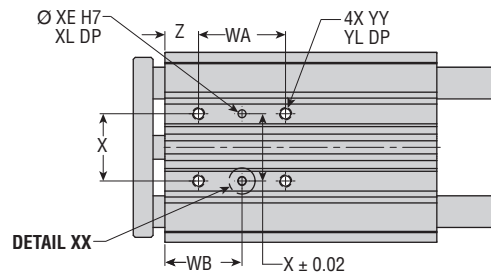
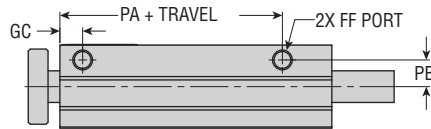
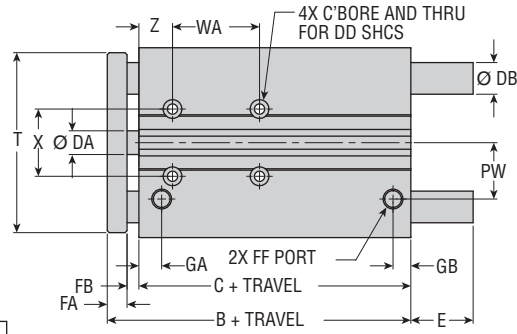
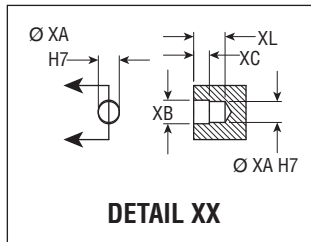
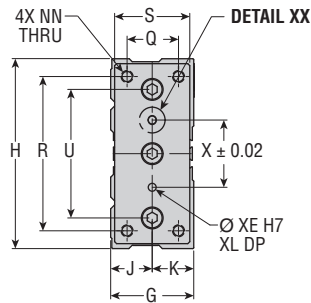
Application & Sizing Assistance

Use PHD's free online Product Sizing and Application at www.phdinc.com/apps/sizing

MAXIMUM ALLOWABLE KINETIC ENERGY



DIMENSIONS: Series OSP Slides - Sizes 12 to 32



SIZE	B	C	DA	DB	DD	FA	FB	FF	G	GA	GB	GC	H	J	K	L	MM	ML	NN	PA
12	42	29	6	8	M4	8	5	M5 x 0.8	26	11	15 (See Note 1)	11	58	13	13	18	M4 x 0.7	10	M4 x 0.7	14
16	46	33	8	10	M4	8	5	M5 x 0.8	30	11	18 (See Note 2)	11	64	15	15	22	M5 x 0.8	12	M5 x 0.8	15
20	53	37	10	12	M5	10	6	G 1/8	36	10.5	8.5	10.5	85	17	19	24	M5 x 0.8	13	M5 x 0.8	12.5
25	53.5	37.5	12	16	M5	10	6	G 1/8	42	11.5	9	11.5	96	21	21	30	M6 x 1.0	15	M6 x 1.0	12.5
32	59.5	37.5	16	20	M6	12	10	G 1/8	51	12.5	9	12.5	116	26	25	34	M8 x 1.25	20	M8 x 1.25	7

SIZE	PB	PW	Q	R	S	T	U	VA	X	XA H7	XB	XC	XE H7	XL	YL	YY	Z
12	8.5	18	14	48	22	56	41.5	50	23	3	3.5	3	3	6	10	M5 x 0.8	5
16	10	19	16	54	25	62	46	56	24	3	3.5	3	3	6	10	M5 x 0.8	5
20	11.5	25	18	70	30	81	55	72	28	3	3.5	3	3	6	12	M6 x 1.0	17
25	13.5	28.5	26	78	38	91	65	82	34	4	4.5	3	4	6	12	M6 x 1.0	17
32	16	34	30	96	44	110	80	98	42	4	4.5	3	4	6	16	M8 x 1.25	21

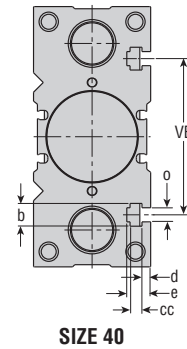
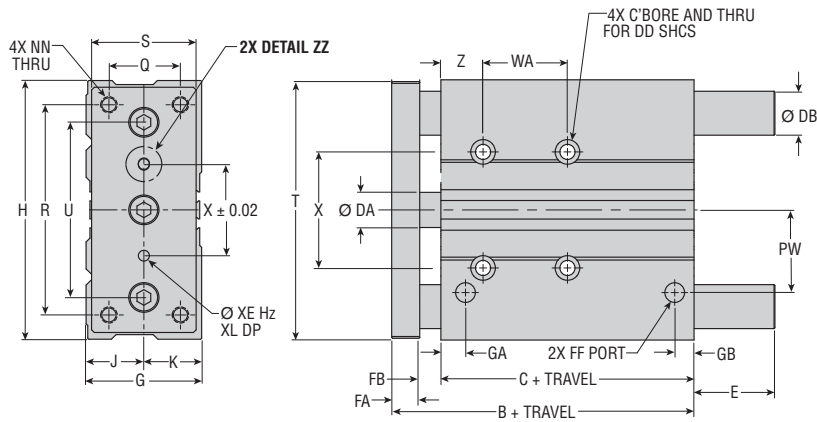
NOTES:

- 1) For travel lengths = 19 or less, GB = 7.5
- 2) For travel lengths = 19 or less, GB = 9

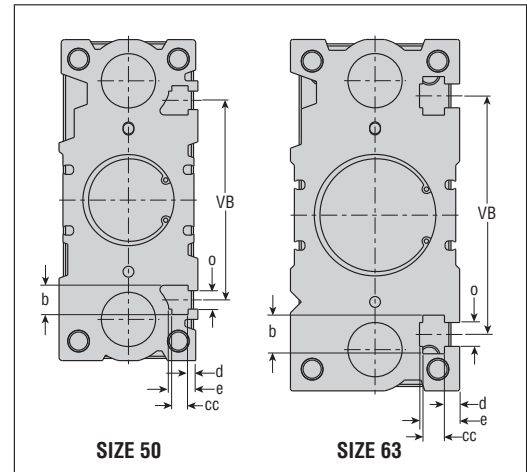
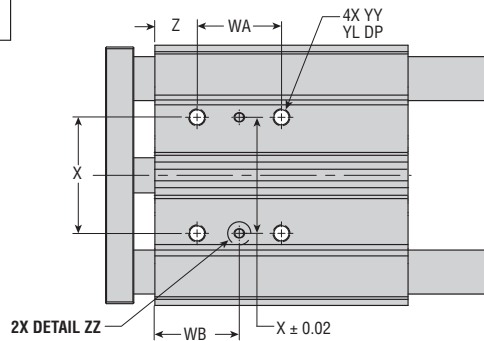
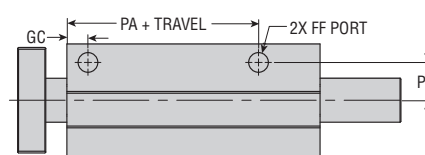
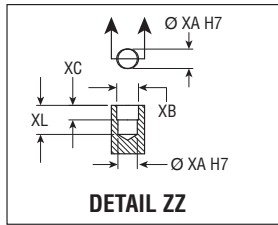
SIZE	E		WA		WB	
	TRAVEL		TRAVEL		TRAVEL	
	≤ 50	≥ 75	≤ 30	≥ 40	≤ 30	≥ 40
12	—	18.5	20	40	15	25
16	—	18.5	24	44	17	27
20	—	31.5	24	44	29	39
25	—	31.5	24	44	29	39
32	37.5	42.5	24	48	33	45

All dimensions are reference only unless specifically tolerated.

DIMENSIONS: Series OSP Slides - Sizes 40 to 63



SIZE 40



SIZE 50

SIZE 63

SIZE	B	C	DA	DB	DD	FA	FB	FF	G	GA	GB	GC	H	J	K	L	MM	ML	NN	PA	PB	PW	Q	R
40	66	44	16	20	M6	12	10	G 1/8	54	14	10	14	120	27	27	40	M8 x 1.25	20	M8 x 1.25	13	18	38	30	104
50	72	44	20	25	M8	16	12	G 1/4	64	14	11	12	148	32	32	46	M10 x 1.5	22	M10 x 1.5	9	21.5	47	40	130
63	77	49	20	25	M8	16	12	G 1/4	78	16.5	13.5	16.5	162	39	39	58	M10 x 1.5	22	M10 x 1.5	14	28	55	50	130

SIZE	S	T	U	VA	X	XA H7	XB	XC	XL	YL	YY	Z	VB	a	b	cc	d	e
40	44	118	86	106	50	4	4.5	3	6	16	M8 x 1.25	22	72	6.5	10.5	5.5	4	11
50	60	146	110	130	66	5	6	4	8	20	M10 x 1.5	24	92	8.5	13.5	7.5	4.5	13.5
63	70	158	124	142	80	5	6	4	8	20	M10 x 1.5	24	110	11	17.8	10	7	18.5

SIZE	E TRAVEL		WA TRAVEL		WB TRAVEL	
	≤ 50	≥ 75	≤ 30	≥ 40	≤ 30	≥ 40
40	31	36	24	48	34	46
50	34.5	46	24	48	36	48
63	29.5	41	28	52	38	50

All dimensions are reference only unless specifically tolerated.