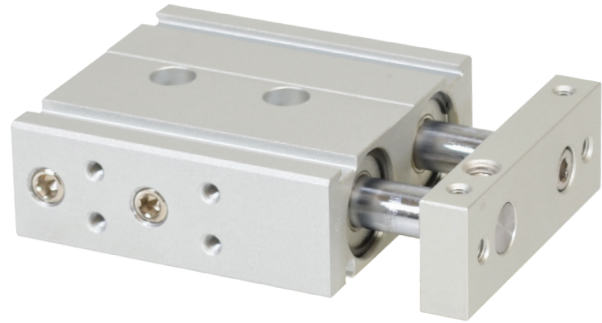


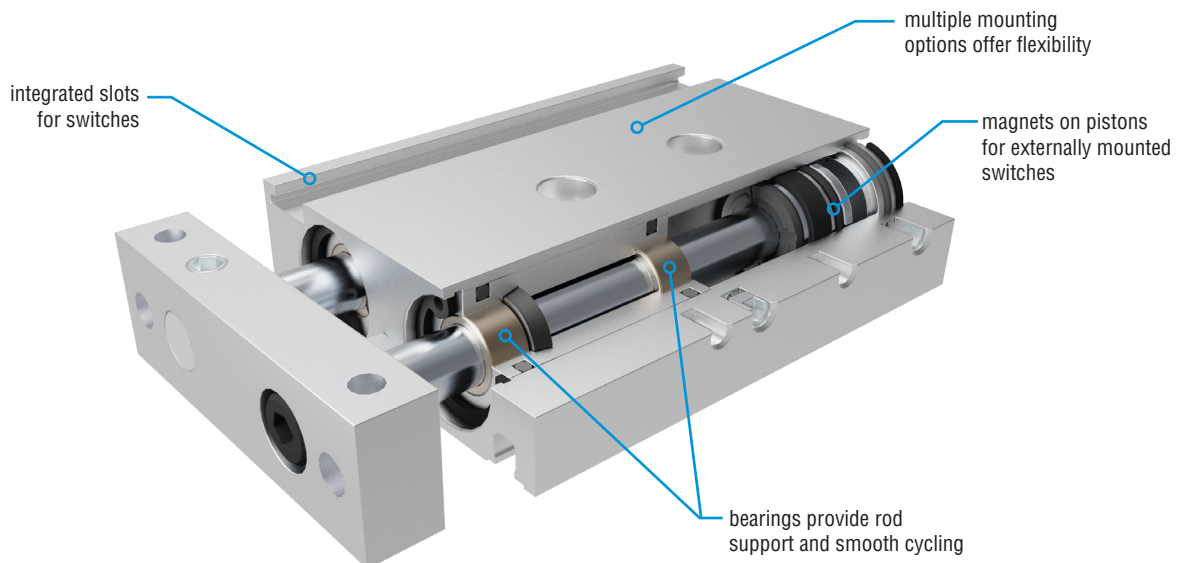
OSX

Major Benefits

- Standard shock pads reduce end of travel impact
- 5 bore sizes with up to 7 travel lengths available to fit variety of applications
- Travel adjustment on retract
- Magnets standard for switch sensing capability
- Smooth linear motion at twice the thrust of a single bore size
- Drop-in metric mounting to match global standard
- Sizes 12 and 16 are drop-in compatible for competition sizes 10 and 15.

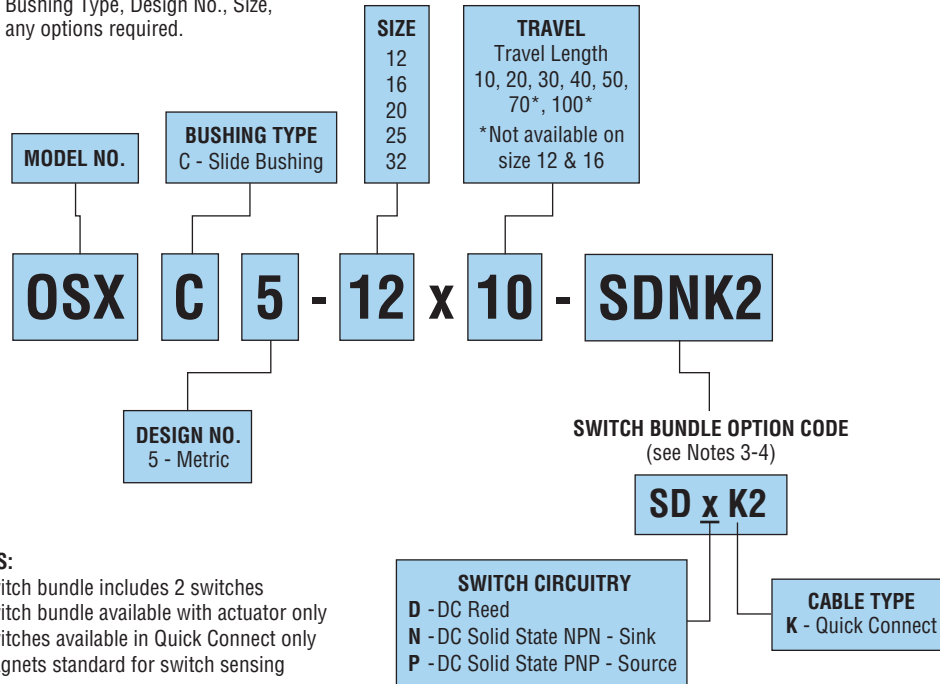


COMPONENT	MATERIALS
BODY	Anodized Aluminum Alloy
TOOL PLATE	
ROD BEARING RETAINER	
BORE PLUG	
ROD SEAL	
SHOCK PAD	NBR
PISTON SEAL	
O-RINGS	
TOOL PLATE FASTENERS	Stainless Steel
PISTON RODS (SIZE 12 THRU 20)	
PISTON RODS (SIZE 25 & 32)	Carbon Steel
PORT PLUGS	
TRAVEL ADJUSTMENT	
SNAP RING	PTFE and Bronze Composite
ROD BEARINGS	



TO ORDER SPECIFY:

Model No., Bushing Type, Design No., Size, Travel, 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 OSX SLIDE
OPERATING AIR PRESSURE	1 - 7 bar [14.5 - 101 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	UNIT WEIGHT BY TRAVEL													
	10		20		30		40		50		70		100	
	kg	oz	kg	oz	kg	oz	kg	oz	kg	oz	kg	oz	kg	oz
12	0.14	4.9	0.16	5.6	0.18	6.3	0.20	7.1	0.22	7.8	—	—	—	—
16	0.23	8.1	0.26	9.2	0.28	9.9	0.31	10.9	0.34	12.0	—	—	—	—
20	0.39	13.8	0.43	15.2	0.47	16.6	0.50	17.6	0.54	19.0	0.63	22.2	0.73	25.7
25	0.62	21.9	0.67	23.6	0.73	25.7	0.78	27.5	0.84	29.6	0.96	33.9	1.11	39.1
32	1.10	38.8	1.18	41.6	1.27	44.8	1.35	47.6	1.44	50.8	1.66	58.5	1.88	66.3

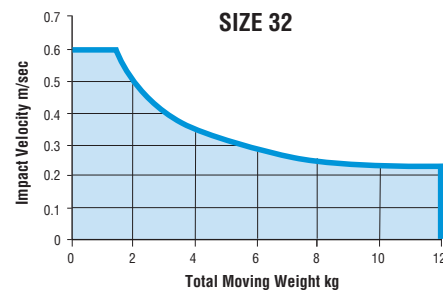
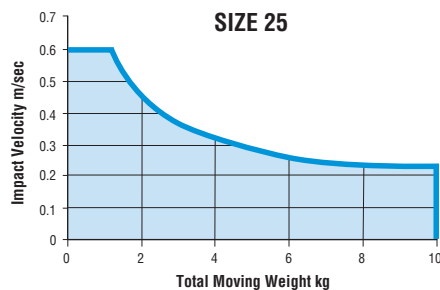
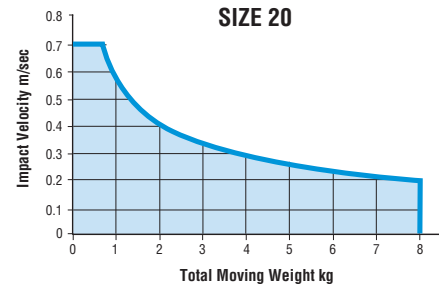
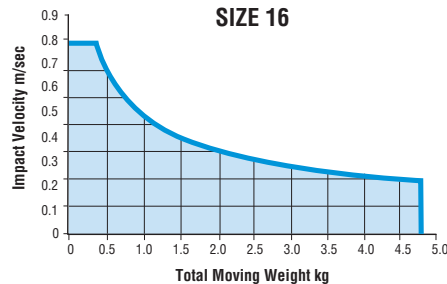
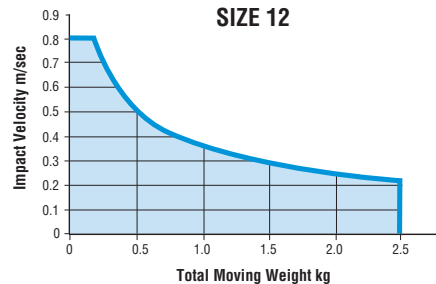
SIZE	MAXIMUM LATERAL LOADS BY TRAVEL													
	10		20		30		40		50		70		100	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
12	0.23	0.50	0.20	0.44	0.15	0.33	0.13	0.29	0.12	0.26	—	—	—	—
16	0.54	1.20	0.48	1.06	0.40	0.88	0.35	0.77	0.30	0.66	—	—	—	—
20	0.91	2.00	0.85	1.87	0.74	1.63	0.65	1.43	0.58	1.28	0.40	0.88	0.30	0.66
25	1.48	3.25	1.35	2.98	1.18	2.60	1.03	2.27	0.90	1.98	0.68	1.50	0.52	1.15
32	2.40	5.29	2.25	4.96	1.95	4.30	1.75	3.86	1.55	3.42	1.18	2.60	0.90	1.98

SIZE	ROD SIZE	EFFECTIVE AREA		
		DIRECTION	mm ²	in ²
12	6	Extend	226	0.350
		Retract	170	0.264
16	8	Extend	402	0.623
		Retract	346	0.536
20	10	Extend	628	0.973
		Retract	471	0.730
25	12	Extend	982	1.522
		Retract	756	1.172
32	16	Extend	1608	2.492
		Retract	1206	1.869

LATERAL LOAD



MAXIMUM ALLOWABLE KINETIC ENERGY

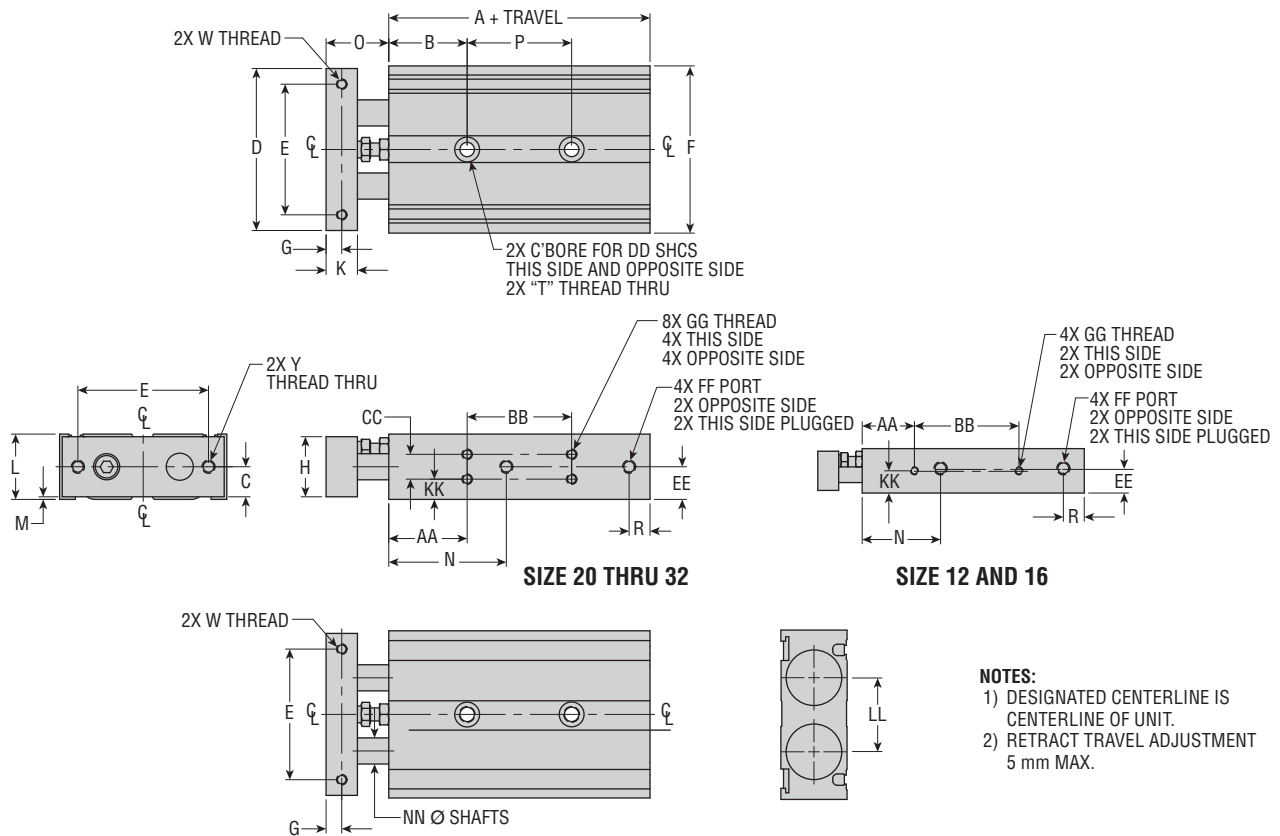


SIZE	RECOMMENDED MOUNTING TORQUES									
	BODY THRU & C'BORE		BODY BOTTOM THREADS UNIT (MOUNTING)		BODY SIDE THREADS UNIT (MOUNTING)		TOOL PLATE FACE (TOOLING MOUNTING)		TOOL PLATE TOP & BOTTOM (TOOLING MOUNTING)	
	Nm	in-lb	Nm	in-lb	Nm	in-lb	Nm	in-lb	Nm	in-lb
12	1.7	15	2.8	25	1.7	15	2.8	25	1.7	15
16	2.8	25	4.5	40	2.8	25	4.5	40	2.8	25
20	4.5	40	7.5	66	2.8	25	4.5	40	2.8	25
25	7.5	66	18.1	160	4.5	40	7.5	66	4.5	40
32	7.5	66	18.1	160	4.5	40	7.5	66	4.5	40

NOTES:

- 1) Assumes use of at least 75% of full thread depth.
- 2) Assumes use of high strength steel socket head cap screws.
- 3) PHD recommends use of threadlocker.

DIMENSIONS: Series OSX Slides



LETTER DIM	SIZE													
	12		16		20			25			32			
	10, 20	30, 40, 50	10, 20	30, 40, 50	10, 20	30, 40, 50	70, 100	10, 20	30, 40, 50	70, 100	10, 20	30, 40, 50	70, 100	
A	55 + TRAVEL		60 + TRAVEL		70 + TRAVEL			72 + TRAVEL			82 + TRAVEL			
B	20		30		30			30			30			
C	8		9		11.5			14			18			
D	44		56		62			78			96			
E	35 ± 0.2		45 ± 0.2		50 ± 0.2			60 ± 0.2			75 ± 0.2			
F	46		58		64			80			98			
G	4		5		6			6			8			
H	16		18		23			28			36			
K	8		10		12			12			16			
L	18		20		25			30			38			
M	1		1		1			1			1			
N	30		38.5		45			46			56			
O	17		19		24			24			30			
P	30	40	25	35	30	40	60	30	40	60	40	50	70	
R	8		8		8			9			10			
T	M4 x 0.7		M5 x 0.8		M6 x 1			M8 x 1.25			M8 x 1.25			
Y	M4 x 0.7		M5 x 0.8		M5 x 0.8			M6 x 1			M6 x 1			
W	M3 x 0.5 x 5 DP		M4 x 0.7 x 6 DP		M4 x 0.7 x 6 DP			M5 x 0.8 x 7.5 DP			M5 x 0.8 x 8 DP			
AA	20		30		30			30			30			
BB	30	40	25	35	30	40	60	30	40	60	40	50	70	
CC	—		—		9.5			13			20			
DD	M3		M4		M5			M6			M6			
EE	10		10		12.5			15			19			
FF	M5		M5		M5			G 1/8			G 1/8			
GG	M3 x 0.5 x 4.5 DP		M4 x 0.7 x 5 DP		M4 x 0.7 x 5.5 DP			M5 x 0.8 x 7.5 DP			M5 x 0.8 x 7.5 DP			
KK	8.5		10		7.75			8.5			9			
LL	19		25		28			35			44			
NN	Ø 6		Ø 8		Ø 10			Ø 12			Ø 16			

All dimensions are reference only unless specifically tolerated.