

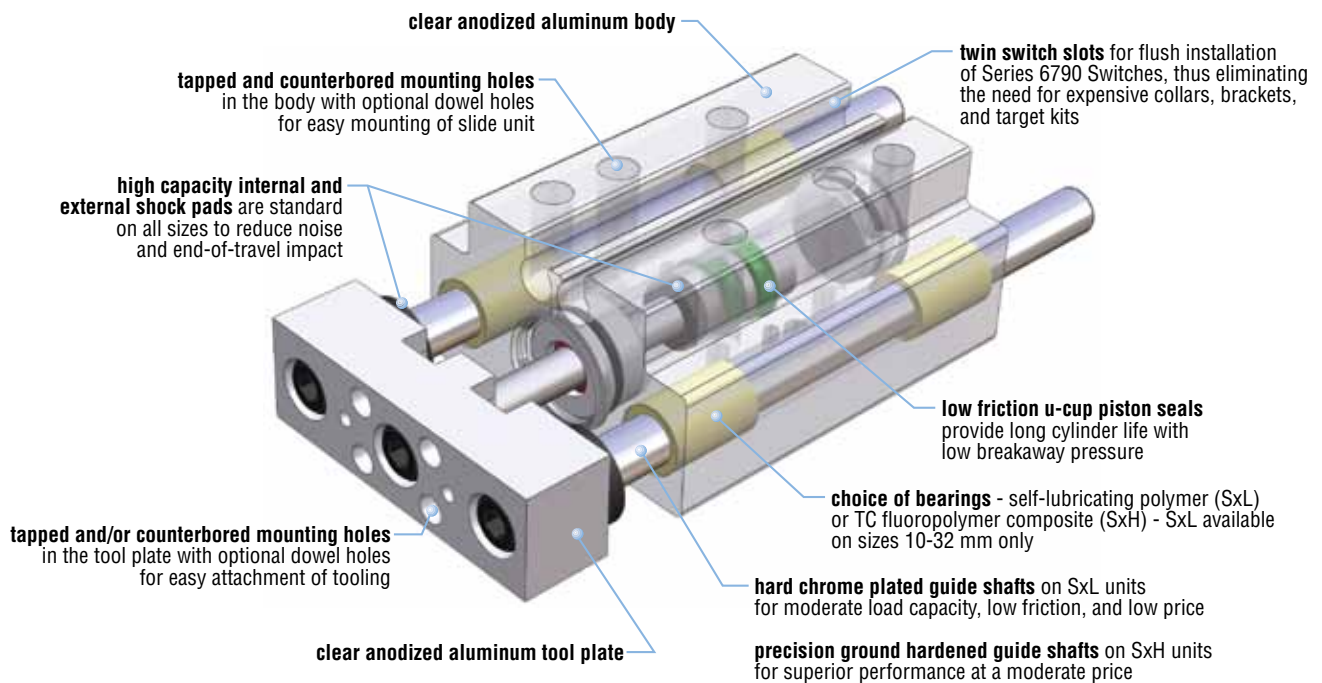
SxL, SxH



HIGH LOAD CAPABILITY COMPACT SLIDE



SxL SxH



Major Benefits

- Choose from two bearing types (2 bearings per shaft, 4 total)
- Nine bore sizes
- No metal to metal contact
- Completely corrosion resistant options provide protection in harsh environments
- All units incorporate twin switch slots for flush switch mounting
- Ships next day

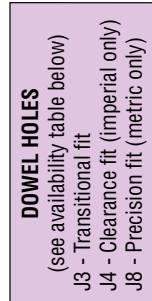
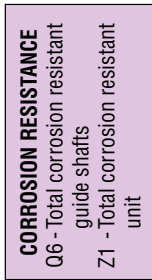
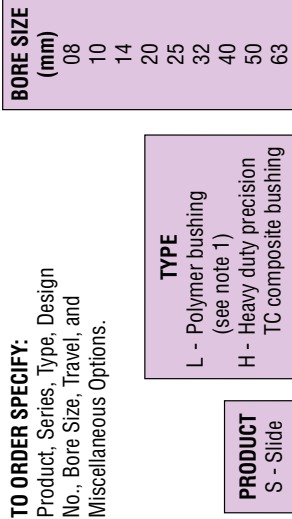
Industry Uses

- Material handling – conveyor
- Assembly machine builders
- Labeling equipment
- Bearing manufacturers
- Automotive
- Semiconductor
- Optical

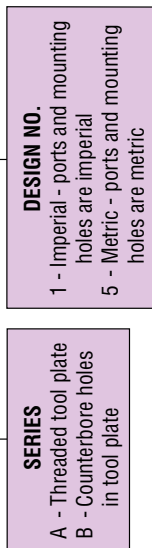
ORDERING DATA: SERIES SxL/SxH SLIDES

SxL, SxH

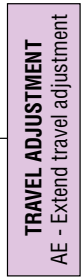
TO ORDER SPECIFY:
Product, Series, Type, Design No., Bore Size, Travel, and Miscellaneous Options.



S A L 1 10 x 1/2 - Z1 - AE - M - J3



UNIT & BORE SIZE		TRAVEL (see note 4)	
SAL/SBL	IMPERIAL (in)	STANDARD	METRIC (mm)
10	1/2, 1, 1-1/2	STANDARD	12, 25, 40
14	1/2, 1, 1-1/2	STANDARD	12, 25, 40
20, 25, 32	1, 2, 3	STANDARD	25, 50, 75
SAH/SBH	LONG	STANDARD	LONG
08	1/2, 1, 1-1/2	STANDARD	12, 25, 40
10	1/2, 1, 1-1/2	STANDARD	12, 25, 40
14	1/2, 1, 1-1/2	STANDARD	12, 25, 40
20, 25, 32	1, 2, 3	STANDARD	25, 50, 75
40, 50, 63	1, 2, 3	STANDARD	50, 75



SERIES 6790 & JC1 SWITCHES

PART NO.	DESCRIPTION
67902-1-05	PNP (Source) or NPN (Sink) Reed, 4.5-30 VDC, 5 m cable
JC1SDN-5	NPN (Sink) Solid State, 10-30 VDC, 5 m cable
JC1SDP-5	PNP (Source) Solid State, 10-30 VDC, 5 m cable
67922-1	PNP (Source) or NPN (Sink) Reed, 4.5-30 VDC, Quick Connect
JC1SDN-K	NPN (Sink) Solid State, 10-30 VDC, Quick Connect
JC1SDP-K	PNP (Source) Solid State, 10-30 VDC, Quick Connect
67929-2	PNP (Source) or NPN (Sink) Reed, 65-120 VDC, Quick Connect

NOTE: See Switches and Sensors section for additional switch information and complete specification.

SERIES 6790 & JC1SDx CORPSET CHART

PART NO.	DESCRIPTION
63549-02	M8, 3 pin, Straight Female Connector, 2 m cable
63549-05	M8, 3 pin, Straight Female Connector, 5 m cable

NOTES:

- 1) L - Polymer bushing not available on size 08, 40, 50, & 63 mm bore units.
- 2) Shock pads are standard on extend and retract for all sizes. Retract shock pads are located on the guide shafts. Extend shock pad is located internally on the piston.
- 3) -AE option (stop collars) is recommended for high cycle speed applications and high load applications. Extend shock pads are included with the -AE option to remove impact load from the piston rod.
- 4) ** Long travel units are available standard on imperial units. 100 mm long travel units are available on metric sizes 40, 50, & 63. Contact PHD for longer travel metric units.

DOWEL HOLE AVAILABILITY

DESIGN NO.	ITEM	DOWEL HOLES		
		J3	J4	J8
1 (IMPERIAL)	HOUSING	(J3 STD)	STD	OPT
	SAX TOOL PLATE	NONE	OPT	OPT
	SBx TOOL PLATE	(J3 STD)	STD	OPT
2 (METRIC)	HOUSING	PD	OPT	OPT
	SAX TOOL PLATE	PD	OPT	OPT
	SBx TOOL PLATE	PD	OPT	OPT

NOTES:

- 1) SEE DOWEL HOLE DIAMETERS TABLE FOR DIMENSIONAL INFORMATION.
- 2) STD = Standard OPT = Optional PD = Production Diameter

UNIQUE SLIDES ARE AVAILABLE. PLEASE CONSULT PHD.



ENGINEERING DATA: SERIES SxL/SxH SLIDES

SPECIFICATIONS	SERIES SxL / SxH
OPERATING PRESSURE	30 to 150 psi [2 to 10 bar]
OPERATING TEMPERATURE	-20° to 180°F [-29° to 82°C]
TRAVEL TOLERANCE	Nominal travel +.080/- .000 [+2 mm/-0 mm]
LUBRICATION	Factory lubricated for rated life
MAINTENANCE	Field repairable

CYLINDER FORCE CALCULATIONS		
	IMPERIAL	METRIC
	$F = P \times A$	$F = 0.1 \times P \times A$
F = Cylinder Force	lbs	N
P = Operating Pressure	psi	bar
A = Effective Area	in ²	mm ²

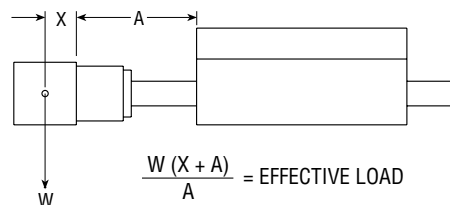
SIZE	TRAVEL in mm		SHAFT DIAMETER in mm		BORE DIAMETER in mm		EFFECTIVE AREA DIRECTION in ² mm ²			BASE WEIGHT lb kg		MAX. STATIC LOAD				TYPICAL DYNAMIC LOAD lb N	
												SxL		SxH			
08	1/2	12	.197	5	.315	8	EXTEND RETRACT	.078 .058	50.3 37.4	.24	.11	—	—	46	205	0 - 1	0 - 4.5
	1	25								.29	.13	—	—	33	147		
	1 1/2	40								.34	.15	—	—	26	116		
10	1/2	12	.236	6	.394	10	EXTEND RETRACT	.122 .091	78.7 58.7	.28	.13	60	267	82	365	1 - 2	4.5 - 8.9
	1	25								.36	.16	44	196	59	262		
	1 1/2	40								.44	.20	34	151	46	205		
	2	—								.52	—	—	—	37	—		
	3	—								.68	—	—	—	27	—		
14	4	—	.394	10	.551	14	EXTEND RETRACT	.238 .195	154 126	.84	—	—	—	21	—	2 - 6	8.9 - 26.7
	1/2	12								.79	.36	210	934	344	1530		
	1	25								.95	.43	190	845	254	1130		
	1 1/2	40								1.11	.50	150	667	202	898		
	2	—								1.27	—	—	—	165	—		
	3	—								1.59	—	—	—	123	—		
	4	—								1.91	—	—	—	98	—		
	5	—								2.23	—	—	—	81	—		
20	6	—	.472	12	.787	20	EXTEND RETRACT	.487 .409	314 264	2.55	—	—	—	69	—	6 - 12	26.7 - 53.4
	1	25								1.72	.78	280	1245	378	1681		
	2	50								2.26	1.03	190	845	260	1156		
	3	75								2.80	1.27	150	667	198	881		
	4	—								3.34	—	—	—	158	—		
	5	—								3.88	—	—	—	133	—		
	6	—								4.42	—	—	—	114	—		
	7	—								4.96	—	—	—	100	—		
25	8	—	.630	16	.984	25	EXTEND RETRACT	.761 .639	491 412	5.50	—	—	—	89	—	10 - 16	44.5 - 71.2
	1	25								2.79	1.27	423	1882	738	3284		
	2	50								3.62	1.64	419	1865	489	2176		
	3	75								4.45	2.02	323	1437	380	1691		
	4	—								5.27	—	—	—	312	—		
	5	—								6.10	—	—	—	264	—		
	6	—								6.92	—	—	—	229	—		
	7	—								7.75	—	—	—	202	—		
32	8	—	.787	20	1.260	32	EXTEND RETRACT	1.247 1.071	805 691	8.58	—	—	—	180	—	12 - 25	53.4 - 111
	1	25								3.89	1.76	528	2349	1325	5894		
	2	50								4.97	2.25	523	2326	950	4226		
	3	75								6.05	2.74	520	2313	750	3336		
	4	—								7.13	—	—	—	605	—		
	5	—								8.21	—	—	—	515	—		
	6	—								9.24	—	—	—	445	—		
	7	—								10.32	—	—	—	393	—		
40	8	—	.984	25	1.575	40	EXTEND RETRACT	1.948 1.636	1256.8 1055.5	11.40	—	—	—	352	—	16 - 75	71 - 334
	1	—								6.86	—	—	—	1947	—		
	2	50								8.57	3.86	—	—	1740	7740		
	3	75								10.28	4.64	—	—	1374	6112		
	4	100								11.99	5.41	—	—	1136	5053		
	5	—								13.70	—	—	—	968	—		
	6	—								15.41	—	—	—	843	—		
	7	—								17.12	—	—	—	747	—		
50	8	—	1.181	30	1.969	50	EXTEND RETRACT	3.043 2.556	1963.2 1649.0	18.83	—	—	—	671	—	25 - 100	111 - 445
	1	—								10.94	—	—	—	2888	—		
	2	50								13.43	6.08	—	—	2859	12717		
	3	75								15.92	7.21	—	—	2282	10151		
	4	100								18.41	8.34	—	—	1899	8447		
	5	—								20.90	—	—	—	1626	—		
	6	—								23.39	—	—	—	1422	—		
	7	—								25.88	—	—	—	1263	—		
63	8	—	1.374	34.9	2.480	63	EXTEND RETRACT	4.832 4.345	3117.4 2803.2	28.37	—	—	—	1137	—	75 - 150	334 - 668
	1	—								17.26	—	—	—	3823	—		
	2	50								20.64	9.34	—	—	3805	16925		
	3	75								24.03	10.87	—	—	3555	15813		
	4	100								27.41	12.41	—	—	2964	13185		
	5	—								30.79	—	—	—	2542	—		
	6	—								34.18	—	—	—	2225	—		
	7	—								37.56	—	—	—	1978	—		

ENGINEERING DATA: SERIES SxL/SxH SLIDES

EFFECTIVE LOAD

All of the loads in this catalog are given at the front of the extended tool plate. When the load is attached to the tool plate, use the following formula and chart to calculate the effective load.

This method of finding the effective load must be used for all the load carrying specifications and charts in this catalog.



SxL, SxH

SIZE	TRAVEL		A	
	in	mm	in	mm
08	1/2	12	.937	23.8
	1	25	1.437	36.5
	1-1/2	40	1.937	49.2
10	1/2	12	.937	23.8
	1	25	1.437	36.5
	1-1/2	40	1.937	49.2
	2	—	2.437	—
	3	—	3.437	—
14	4	—	4.437	—
	1/2	12	1.062	27.0
	1	25	1.562	39.7
	1-1/2	40	2.062	52.4
	2	—	2.562	—
	3	—	3.562	—
	4	—	4.562	—
	5	—	5.562	—
	6	—	6.562	—

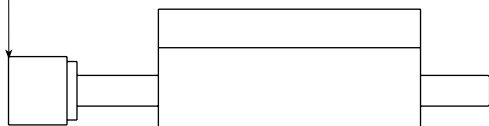
SIZE	TRAVEL		A	
	in	mm	in	mm
20	1	25	1.875	47.6
	2	50	2.875	73.0
	3	75	3.875	98.4
	4	—	4.875	—
	5	—	5.875	—
	6	—	6.875	—
	7	—	7.875	—
	8	—	8.875	—
25	1	25	2.074	52.7
	2	50	3.074	78.1
	3	75	4.074	103.5
	4	—	5.074	—
	5	—	6.074	—
	6	—	7.074	—
	7	—	8.074	—
	8	—	9.074	—
32	1	25	2.188	55.6
	2	50	3.188	81.0
	3	75	4.188	106.4
	4	—	5.188	—
	5	—	6.188	—
	6	—	7.188	—
	7	—	8.188	—
	8	—	9.188	—

SIZE	TRAVEL		A	
	in	mm	in	mm
40	1	—	2.341	—
	2	50	3.431	86.3
	3	75	4.431	111.3
	4	100	5.431	136.3
	5	—	6.431	—
	6	—	7.431	—
	7	—	8.431	—
	8	—	9.431	—
50	1	—	2.627	—
	2	50	3.627	91.3
	3	75	4.627	116.3
	4	100	5.627	141.3
	5	—	6.627	—
	6	—	7.627	—
	7	—	8.627	—
	8	—	9.627	—
63	1	—	2.687	—
	2	50	3.687	92.8
	3	75	4.687	117.8
	4	100	5.687	142.8
	5	—	6.687	—
	6	—	7.687	—
	7	—	8.687	—
	8	—	9.687	—

BREAKAWAY

Breakaway pressure is affected by several factors including the load at the tool plate, slide travel, and lubrication condition of the unit. The following formulas yield approximate breakaway pressure for the Series SxL/SxH Slides.

L = EFFECTIVE LOAD AT TOOL PLATE lb [N]



APPROXIMATE BREAKAWAY PRESSURE

SIZE	SxL		SxH	
	psi	bar	psi	bar
08	—	—	(L x 13.78) + 20	(L x 0.214) + 1.38
10	(L x 7.03) + 20	(L x 0.109) + 1.38	(L x 8.34) + 20	(L x 0.129) + 1.38
14	(L x 2.87) + 20	(L x 0.044) + 1.38	(L x 3.48) + 20	(L x 0.054) + 1.38
20	(L x 1.17) + 20	(L x 0.018) + 1.38	(L x 1.47) + 20	(L x 0.023) + 1.38
25	(L x 0.69) + 20	(L x 0.011) + 1.38	(L x 0.87) + 20	(L x 0.013) + 1.38
32	(L x 0.37) + 20	(L x 0.006) + 1.38	(L x 0.48) + 20	(L x 0.008) + 1.38
40	—	—	(L x 0.31) + 20	(L x 0.0046) + 1.38
50	—	—	(L x 0.19) + 20	(L x 0.0029) + 1.38
63	—	—	(L x 0.10) + 20	(L x 0.0015) + 1.38

SIZING AND APPLICATION ASSISTANCE

See PHD Product Sizing Catalog for specific and complete sizing information.

Online sizing assistance is available at:
www.phdinc.com/apps/sizing

ENGINEERING DATA: SERIES SxL/SxH SLIDES

SLIDE SPEEDS

Slide speeds and time required for the slide to extend or retract are dependent upon many application conditions. The table below shows the approximate speed and time for units with no load and

with a typical attached load weight as listed to the right of the table.
NOTE: Flow controls are highly recommended to control impact velocity within maximum allowable kinetic energy as specified in the Sizing Catalog.

SIZE	TRAVEL in mm	NO LOAD, MAX VELOCITY						WITH GIVEN LOAD TOTAL, MAX KE WITH -AE OPTION						TOTAL MOVING LOAD WEIGHT	
		EXTEND			RETRACT			EXTEND			RETRACT				
		TIME sec	PEAK SPEED in/sec m/sec	TIME sec	PEAK SPEED in/sec m/sec	TIME sec	IMPACT SPEED in/sec m/sec	TIME sec	IMPACT SPEED in/sec m/sec	TIME sec	IMPACT SPEED in/sec m/sec	lb	N		
08	1/2 12	.023	86 2.18	.026	70 1.78	.079	24 0.61	.079	24 0.61	.092	24 0.61	.110	24 0.61	1	4.4
	1 25	.030	105 2.67	.034	93 2.36	.092	24 0.61	.092	24 0.61	.110	24 0.61				
	1-1/2 40	.037	130 3.30	.042	115 2.92	.110	24 0.61	.110	24 0.61	.110	24 0.61				
10	1/2 12	.023	86 2.18	.026	84 2.13	.085	24 0.61	.085	24 0.61	.113	24 0.61	.152	24 0.61	2	8.9
	1 25	.030	105 2.67	.033	100 2.54	.113	24 0.61	.119	24 0.61	.140	24 0.61	.152	24 0.61		
	1-1/2 40	.037	130 3.30	.040	120 3.05	.140	24 0.61	.140	24 0.61	.165	24 0.61	.166	24 0.61		
	2 —	.044	130 3.30	.047	120 3.05	.165	24 0.61	.166	24 0.61	.216	24 0.61	.217	24 0.61		
	3 —	.058	130 3.30	.061	120 3.05	.216	24 0.61	.217	24 0.61	.268	24 0.61	.269	24 0.61		
14	4 —	.072	130 3.30	.075	120 3.05	.268	24 0.61	.269	24 0.61	.371	24 0.61	.372	24 0.61	4	17.8
	1/2 12	.024	82 2.08	.024	82 2.08	.082	24 0.61	.082	24 0.61	.113	24 0.61	.145	24 0.61		
	1 25	.032	98 2.49	.032	98 2.49	.113	24 0.61	.114	24 0.61	.143	24 0.61	.166	24 0.61		
	1-1/2 40	.040	120 3.05	.040	120 3.05	.143	24 0.61	.145	24 0.61	.216	24 0.61	.217	24 0.61		
	2 —	.048	120 3.05	.048	120 3.05	.165	24 0.61	.166	24 0.61	.268	24 0.61	.269	24 0.61		
	3 —	.064	120 3.05	.064	120 3.05	.216	24 0.61	.217	24 0.61	.320	24 0.61	.321	24 0.61		
20	4 —	.080	120 3.05	.080	120 3.05	.268	24 0.61	.269	24 0.61	.371	24 0.61	.372	24 0.61	10	44.5
	5 —	.096	120 3.05	.096	120 3.05	.320	24 0.61	.321	24 0.61	.449	24 0.61	.453	24 0.61		
	6 —	.112	120 3.05	.112	120 3.05	.371	24 0.61	.372	24 0.61	.501	24 0.61	.505	24 0.61		
	1 25	.040	100 2.54	.040	100 2.54	.139	24 0.61	.143	24 0.61	.191	24 0.61	.195	24 0.61		
	2 50	.056	110 2.79	.056	110 2.79	.191	24 0.61	.195	24 0.61	.242	24 0.61	.246	24 0.61		
	3 75	.072	110 2.79	.072	110 2.79	.242	24 0.61	.246	24 0.61	.294	24 0.61	.298	24 0.61		
	4 —	.088	110 2.79	.088	110 2.79	.294	24 0.61	.298	24 0.61	.346	24 0.61	.350	24 0.61		
	5 —	.104	110 2.79	.104	110 2.79	.346	24 0.61	.350	24 0.61	.397	24 0.61	.401	24 0.61		
25	6 —	.120	110 2.79	.120	110 2.79	.397	24 0.61	.401	24 0.61	.449	24 0.61	.453	24 0.61	16	71.2
	7 —	.136	110 2.79	.136	110 2.79	.449	24 0.61	.453	24 0.61	.501	24 0.61	.505	24 0.61		
	8 —	.152	110 2.79	.152	110 2.79	.501	24 0.61	.505	24 0.61	.132	24 0.61	.137	24 0.61		
	1 25	.044	78 1.98	.047	78 1.98	.132	24 0.61	.137	24 0.61	.184	24 0.61	.189	24 0.61		
	2 50	.067	75 1.91	.070	75 1.91	.184	24 0.61	.189	24 0.61	.235	24 0.61	.240	24 0.61		
	3 75	.090	72 1.83	.093	72 1.83	.235	24 0.61	.240	24 0.61	.287	24 0.61	.292	24 0.61		
	4 —	.113	72 1.83	.116	72 1.83	.287	24 0.61	.292	24 0.61	.339	24 0.61	.344	24 0.61		
	5 —	.136	72 1.83	.139	72 1.83	.339	24 0.61	.344	24 0.61	.390	24 0.61	.395	24 0.61		
32	6 —	.159	72 1.83	.162	72 1.83	.390	24 0.61	.395	24 0.61	.442	24 0.61	.447	24 0.61	25	111.2
	7 —	.182	72 1.83	.185	72 1.83	.442	24 0.61	.447	24 0.61	.494	24 0.61	.499	24 0.61		
	8 —	.205	72 1.83	.208	72 1.83	.494	24 0.61	.499	24 0.61	.126	24 0.61	.132	24 0.61		
	1 25	.051	50 1.27	.057	42 1.07	.126	24 0.61	.132	24 0.61	.178	24 0.61	.184	24 0.61		
	2 50	.082	48 1.22	.093	40 1.02	.178	24 0.61	.184	24 0.61	.229	24 0.61	.235	24 0.61		
	3 75	.113	46 1.17	.129	38 0.97	.229	24 0.61	.235	24 0.61	.281	24 0.61	.287	24 0.61		
	4 —	.144	46 1.17	.165	38 0.97	.281	24 0.61	.287	24 0.61	.333	24 0.61	.339	24 0.61		
	5 —	.175	46 1.17	.201	38 0.97	.333	24 0.61	.339	24 0.61	.384	24 0.61	.390	24 0.61		
40	6 —	.206	46 1.17	.237	38 0.97	.384	24 0.61	.390	24 0.61	.436	24 0.61	.442	24 0.61	35	156
	7 —	.237	46 1.17	.273	38 0.97	.436	24 0.61	.442	24 0.61	.488	24 0.61	.494	24 0.61		
	8 —	.268	46 1.1	.309	38 0.97	.488	24 0.61	.494	24 0.61	.131	24 0.61	.142	24 0.61		
	1 —	.064	68 1.73	.070	61 1.55	.131	24 0.61	.142	24 0.61	.183	24 0.61	.194	24 0.61		
	2 50	.091	82 2.08	.100	71 1.80	.183	24 0.61	.194	24 0.61	.234	24 0.61	.245	24 0.61		
	3 75	.118	99 2.51	.130	84 2.13	.234	24 0.61	.245	24 0.61	.286	24 0.61	.297	24 0.61		
	4 100	.145	89 2.26	.160	74 1.88	.286	24 0.61	.297	24 0.61	.338	24 0.61	.349	24 0.61		
	5 —	.172	78 1.98	.190	63 1.60	.338	24 0.61	.349	24 0.61	.389	24 0.61	.400	24 0.61		
50	6 —	.199	68 1.73	.220	59 1.50	.389	24 0.61	.400	24 0.61	.441	24 0.61	.452	24 0.61	47	209
	7 —	.226	59 1.50	.250	54 1.37	.441	24 0.61	.452	24 0.61	.493	24 0.61	.504	24 0.61		
	8 —	.253	59 1.50	.280	54 1.37	.493	24 0.61	.504	24 0.61	.250	24 0.61	.308	24 0.61		
	1 —	.066	76 1.93	.072	69 1.75	.198	24 0.61	.256	24 0.61	.301	24 0.61	.359	24 0.61		
	2 50	.099	74 1.88	.105	57 1.45	.250	24 0.61	.308	24 0.61	.353	24 0.61	.411	24 0.61		
	3 75	.132	71 1.80	.138	57 1.45	.301	24 0.61	.359	24 0.61	.405	24 0.61	.463	24 0.61		
	4 100	.165	68 1.73	.171	55 1.40	.353	24 0.61	.411	24 0.61	.456	24 0.61	.514	24 0.61		
	5 —	.198	65 1.65	.204	52 1.32	.405	24 0.61	.463	24 0.61	.508	24 0.61	.566	24 0.61		
63	6 —	.231	60 1.52	.237	50 1.27	.456	24 0.61	.514	24 0.61	.560	24 0.61	.618	24 0.61	61	272
	7 —	.264	57 1.45	.270	47 1.19	.508	24 0.61	.566	24 0.61	.146	24 0.61	.169	24 0.61		
	8 —	.297	54 1.37	.303	44 1.12	.560	24 0.61	.618	24 0.61	.198	24 0.61	.221	24 0.61		
	1 —	.092	62 1.57	.092	57 1.45	.146	24 0.61	.169	24 0.61	.249	24 0.61	.272	24 0.61		
	2 50	.134	58 1.47	.140	54 1.37	.198	24 0.61	.221	24 0.61	.301	24 0.61	.324	24 0.61		
	3 75	.176	54 1.37	.188	52 1.32	.249	24 0.61	.272	24 0.61	.353	24 0.61	.376	24 0.61		
	4 100	.218	50 1.27	.236	48 1.22	.301	24 0.61	.324	24 0.61	.404	24 0.61	.427	24 0.61		
	5 —	.260	48 1.22	.284	48 1.22	.353	24 0.61	.376	24 0.61	.456	24 0.61	.479	24 0.61		
	6 —	.302	48 1.22	.332	48 1.22	.404	24 0.61	.427	24 0.61	.508	24 0.61	.531	24 0.61		
	7 —	.344	48 1.22	.380	48 1.22	.456	24 0.61	.479	24 0.61						
	8 —	.386	48 1.22	.428	48 1.22	.508	24 0.61	.531	24 0.61						

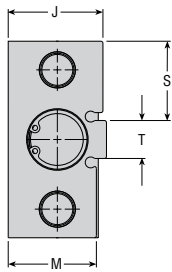
NOTE: The approximate tabled time and speed is based on:

- 1) Sizes 08 - 32 mm- line pressure 87 psi, 2) Valve rated at 1.35 CV², 3) .28 I.D. tubing, 4) Horizontal operation
- 2) Sizes 40 & 50 mm- line pressure 87 psi, 2) Valve rated at 5.1 CV², 3) .281 ID tubing, 4) Horizontal operation
- 3) Size 63 mm- line pressure 87 psi, 2) Valve rated at 5.1 CV², 3) .39 ID tubing, 4) Horizontal operation

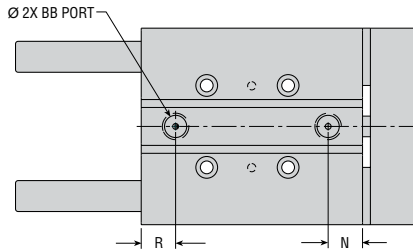
All dimensions are reference only unless specifically toleranced.

www.phdinc.com/salsah • (800) 624-8511

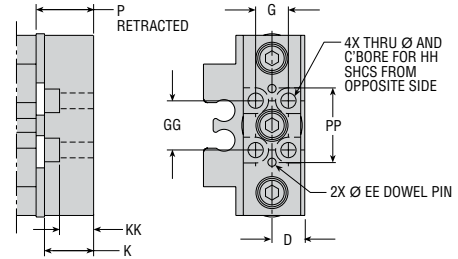
DIMENSIONS: SERIES SxL/SxH SLIDES - STANDARD TRAVELS



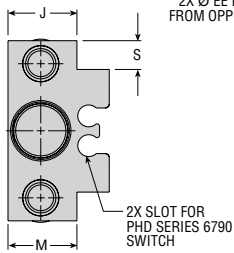
SIZES 14 through 63



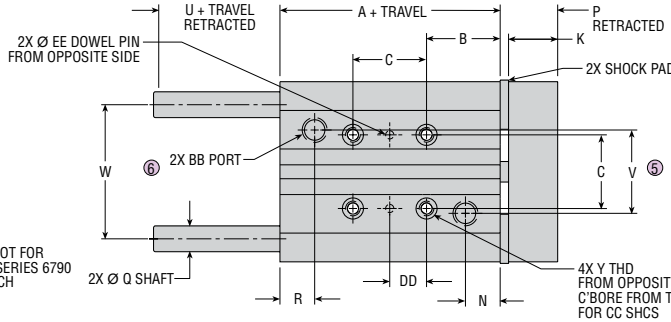
SIZES 14 through 63



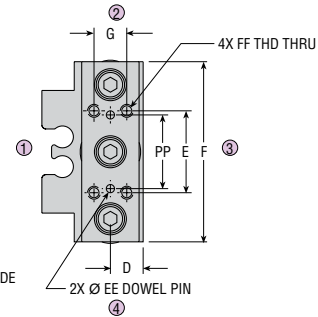
SERIES SBx
(TOOL PLATE)



SIZE 08 & 10

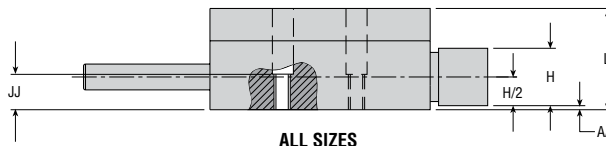


SIZE 08 & 10



SERIES Sx
(TOOL PLATE)

NOTE: CIRCLED NUMBERS INDICATE POSITION.



DOWEL HOLE DIAMETERS

SIZE	EE DOWEL HOLE	PRODUCTION DIAMETER	J3 OPTION TRANSITIONAL	J4 OPTION CLEARANCE FIT	J8 OPTION PRECISION FIT
08	.0625 x .16 DP [2 x 4 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.010 / -.000]
10	.0937 x .20 DP [2.5 x 5 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.010 / -.000]
14	.1250 x .24 DP [3 x 6 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.010 / -.000]
20	.1875 x .35 DP [4 x 9 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.012 / -.000]
25	.2500 x .47 DP [6 x 12 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.012 / -.000]
32	.2500 x .47 DP [6 x 12 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.012 / -.000]
40	.3125 x .63 DP [8 x 16 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.015 / -.000]
50	.3125 x .63 DP [8 x 16 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.015 / -.000]
63	.375 x .79 DP [10 x 20 DP]	* [+.010 / -.024]	+.0013 / +.0000 [+.033 / +.008]	+.0038 / +.0028 —	— [+.015 / -.000]

- 1) * ALL IMPERIAL HOUSINGS AND SB TOOL PLATES HAVE J3 DOWEL HOLES AS STANDARD
2) NUMBERS IN [] ARE FOR METRIC UNITS DESIGN #5

DOWEL HOLE AVAILABILITY

DESIGN NO.	ITEM	DOWEL HOLES		
		J3	J4	J8
1 (IMPERIAL)	HOUSING	(J3 STD)	STD	OPT
	SxL TOOL PLATE	NONE	OPT	OPT
	SBx TOOL PLATE	(J3 STD)	STD	OPT
2 (METRIC)	HOUSING	PD	OPT	—
	SxL TOOL PLATE	PD	OPT	—
	SBx TOOL PLATE	PD	OPT	—

NOTES:

- 1) SEE DOWEL HOLE DIAMETERS TABLE FOR DIMENSIONAL INFORMATION.
2) SEE OPTIONS SECTION FOR J3, J4, & J8 OPTIONS.
3) STD = Standard OPT = Optional PD = Production Diameter

DIMENSIONS: SERIES SxL/SxH SLIDES - STANDARD TRAVELS

LETTER DIM	MODEL NUMBER														
	Sxxx08			Sxxx10			Sxxx14			Sxxx20			Sxxx25		
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
BORE	8mm			10 mm			14 mm			20 mm			25 mm		
TRAVEL	1/2 [12]	1 [25]	1-1/2 [40]	1/2 [12]	1 [25]	1-1/2 [40]	1/2 [12]	1 [25]	1-1/2 [40]	1 [25]	2 [50]	3 [75]	1 [25]	2 [50]	3 [75]
A	1.181 [30.0]			1.181 [30.0]			1.378 [35.0]			1.875 [48.0]			2.126 [54.0]		
B	.562 [14.0]			.562 [14.0]			.562 [14.0]			.625 [16.0]			.787 [20.0]		
C	.562 [14.0]			.625 [16.0]			.875 [22.0]			1.250 [30.0]			1.496 [38.0]		
D	.250 [7.0]			.375 [10.0]			.500 [13.0]			.750 [19.0]			.820 [20.8]		
E	.625 [16.0]			.750 [20.0]			1.000 [26.0]			1.500 [40.0]			1.575 [40.0]		
F	1.375 [35.0]			1.614 [41.0]			2.244 [57.0]			2.992 [76.0]			3.465 [88.0]		
G	.250 [8.0]			.375 [10.0]			.500 [14.0]			.750 [20.0]			.787 [20.0]		
H	.438 [12.0]			.610 [15.5]			.827 [21.0]			1.220 [31.0]			1.375 [34.9]		
J	.526 [14.0]			.768 [20.0]			.972 [25.0]			1.446 [36.7]			1.682 [42.7]		
K	.375 [10.0]			.375 [10.0]			.500 [14.0]			.750 [20.0]			.875 [22.2]		
L	.773 [19.8]			.902 [23.4]			1.142 [29.3]			1.500 [38.0]			1.682 [42.7]		
M	.526 [14.0]			.768 [20.0]			.972 [25.0]			1.346 [34.2]			1.682 [42.7]		
N	.265 [6.7]			.282 [7.2]			.342 [8.7]			.525 [13.3]			.575 [14.6]		
P	.437 [11.5]			.437 [11.5]			.562 [15.5]			.875 [23.0]			1.074 [27.3]		
Q	.197 [5.0]			.236 [6.0]			.394 [10.0]			.472 [12.0]			.630 [16.0]		
R	.265 [6.7]			.220 [5.6]			.342 [8.9]			.525 [13.3]			.575 [14.6]		
S	.265 [6.7]			.327 [8.3]			.990 [25.1]			1.240 [31.5]			1.457 [37.0]		
T	N/A			N/A			.263 [6.7]			.519 [13.2]			.629 [16.0]		
U	.447 [12.8]	.447 [12.2]	.597 [11.4]	.447 [12.8]	.447 [12.2]	.597 [11.4]	.558 [15.5]	.558 [14.9]	.708 [14.1]	.620 [17.4]	.620 [18.2]	.620 [19.1]	.885 [23.3]	.885 [24.1]	.885 [24.9]
V	.624 [15.8]			.670 [17.0]			N/A			N/A			N/A		
W	1.024 [26.0]			1.181 [30.0]			1.614 [41.0]			2.126 [54.0]			2.598 [66.0]		
Y	#4-40 x .27 DP [M3 x .5 x 7 DP]			#6-32 x .39 DP [M4 x .7 x 10 DP]			#10-24 x .50 DP [M5 x .8 x 12 DP]			1/4-20 x .63 DP [M6 x 1 x 16 DP]			5/16-18 x .75 DP [M8 x 1.25 x 20 DP]		
AA	.031 [1.0]			.070 [2.3]			.087 [2.5]			.140 [3.5]			.132 [3.4]		
BB	#10-32 [M5]			#10-32 [M5]			#10-32 [M5]			1/8 NPT [G1/8 BSPP]			1/8 NPT [G1/8 BSPP]		
CC	#2 [M2]			#4 [M3]			#6 [M4]			#10 [M5]			1/4 [M6]		
DD	.281 [7.0]			.312 [8.0]			.438 [11.0]			.625 [15.0]			.748 [19.0]		
EE	SEE TABLE			SEE TABLE			SEE TABLE			SEE TABLE			SEE TABLE		
FF	#3-48 [M2.5 x .45]			#4-40 [M3 x .5]			#6-32 [M4 x .7]			#10-24 [M5 x .8]			1/4-20 [M6 x 1]		
GG	.375 [10.0]			.500 [10.0]			.750 [18.0]			1.000 [24.0]			1.118 [28.4]		
HH	#3 [M2]			#4 [M3]			#6 [M4]			#10 [M5]			1/4 [M6]		
JJ	.270 [7.5]			.512 [13.5]			.769 [19.5]			1.104 [28.0]			1.421 [36.1]		
KK	.260 [7.4]			.250 [6.6]			.270 [8.2]			.534 [14.5]			.614 [15.6]		
PP	.562 [14.0]			.625 [16.0]			.875 [22.0]			1.250 [30.0]			1.496 [38.0]		

LETTER DIM	MODEL NUMBER											
	Sxxx32			Sxxx40			Sxxx50			Sxxx63		
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
BORE	32 mm			40 mm			50 mm			63 mm		
TRAVEL	1 [25]	2 [50]	3 [75]	1 [25]	2 [50]	3 [75]	1 [25]	2 [50]	3 [75]	1 [25]	2 [50]	3 [75]
A	2.126 [54.0]			2.402 [61.0]			2.701 [68.6]			3.445 [87.5]		
B	.813 [22.0]			.630 [16.0]			.512 [13.0]			.670 [17.0]		
C	1.688 [42.0]			2.1850 [55.5]			2.7559 [70.0]			3.2087 [81.5]		
D	1.000 [25.0]			1.063 [27.0]			1.319 [33.5]			1.575 [40.0]		
E	2.000 [52.0]			2.362 [60.0]			2.953 [75.0]			3.543 [90.0]		
F	3.937 [100.0]			5.375 [136.5]			6.375 [161.9]			7.520 [191.0]		
G	1.000 [26.0]			1.260 [32.0]			1.575 [40.0]			1.969 [50.0]		
H	1.732 [44.0]			1.890 [48.0]			2.402 [61.0]			2.913 [74.0]		
J	1.946 [49.0]			2.043 [51.9]			2.569 [65.3]			3.100 [78.7]		
K	1.000 [26.0]			1.181 [30.0]			1.378 [35.0]			1.437 [36.5]		
L	1.986 [50.0]			2.223 [56.5]			2.665 [67.7]			3.355 [85.2]		
M	1.791 [45.1]			2.043 [51.9]			2.569 [65.3]			3.100 [78.7]		
N	.575 [14.6]			.728 [18.5]			0.797 [20.2]			.984 [25.0]		
P	1.197 [31.0]			1.431 [36.3]			1.628 [41.4]			1.687 [42.8]		
Q	.787 [20.0]			.984 [25.0]			1.181 [30.0]			1.375 [35.0]		
R	.575 [14.6]			.650 [16.5]			0.690 [17.5]			.984 [25.0]		
S	1.529 [38.8]			2.340 [59.4]			2.810 [71.4]			3.290 [83.6]		
T	.879 [22.3]			.840 [21.3]			0.870 [22.1]			1.060 [26.9]		
U	.827 [21.8]	.827 [22.6]	.827 [23.4]	1.124 [30.2]	1.124 [30.2]	1.124 [31.0]	1.167 [31.2]	1.167 [32.0]	1.167 [32.0]	1.282 [34.2]	1.282 [35.0]	1.282 [35.0]
V	N/A			N/A			N/A			N/A		
W	2.875 [73.0]			3.818 [97.0]			4.606 [117.0]			5.394 [137.0]		
Y	5/16-18 x .88 DP [M8 x 1.25 x 20 DP]			3/8-16 x .84 DP [M10 x 1.5 x 20 DP]			3/8-16 x .94 [M10 x 1.5 x 25 DP]			1/2-13 x 1.05 DP [M12 x 1.75 x 26.5 DP]		
AA	.134 [3.0]			.118 [3.0]			.118 [3.0]			.119 [3.0]		
BB	1/8 NPT [G1/8 BSPP]			1/8 NPT [G1/8 BSPP]			1/8 NPT [G1/8 BSPP]			1/4 NPT [G1/4 BSPP]		
CC	1/4 [M6]			5/16 [M8]			5/16 [M8]			3/8 [M10]		
DD	.844 [21.0]			1.0925 [27.75]			1.3780 [35.0]			1.6044 [40.75]		
EE	SEE TABLE			SEE TABLE			SEE TABLE			SEE TABLE		
FF	1/4-20 [M6 x 1]			5/16-18 [M8 x 1.25]			3/8-16 [M10 x 1.5]			1/2-13 [M12 x 1.75]		
GG	1.500 [38.0]			1.969 [50.0]			2.362 [60.0]			2.756 [70.0]		
HH	1/4 [M6]			5/16 [M8]			3/8 [M10]			1/2 [M12]		
JJ	1.520 [38.2]			1.625 [40.0]			2.000 [50.0]			2.500 [65.0]		
KK	.645 [17.0]			.844 [21.4]			0.977 [24.3]			0.912 [23.9]		
PP	1.688 [42.0]			2.165 [55.0]			2.559 [65.0]			3.150 [80.0]		

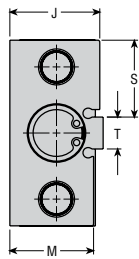
NOTE: UNITS IN [] ARE IN mm

All dimensions are reference only unless specifically toleranced.

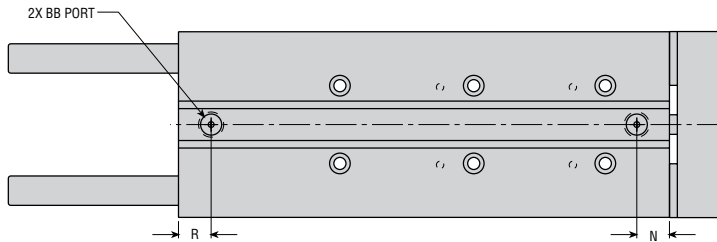
www.phdinc.com/salsah • (800) 624-8511

DIMENSIONS: SERIES SxH SLIDES - LONG TRAVELS

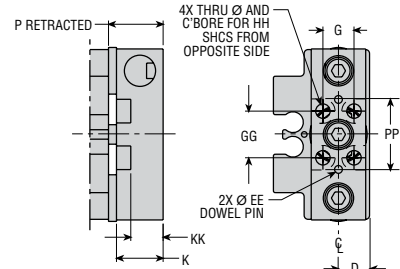
SxL, SxH



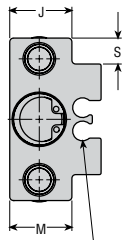
SIZES 14 - 63



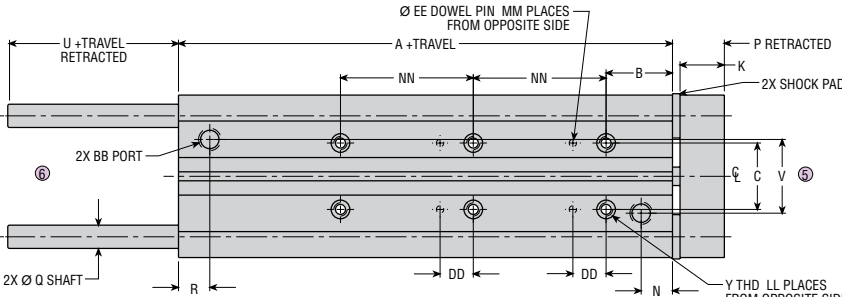
SIZES 14 - 63



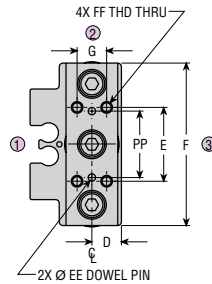
SERIES SBH (TOOL PLATE)



SIZE 10

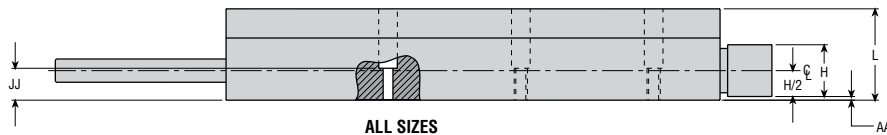


SIZE 10



SERIES SAH (TOOL PLATE)

NOTE: CIRCLED NUMBERS INDICATE POSITION.



ALL SIZES

TABLE 2 - DOWEL HOLE DIAMETERS

MODEL	EE DOWEL HOLE	PRODUCTION DIAMETER	J3 OPTION TRANSITIONAL	J4 OPTION CLEARANCE FIT	J8 OPTION PRECISION FIT
08	.0625 x .16 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
10	.0937 x .20 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
14	.1250 x .24 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
20	.1875 x .35 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
25	.2500 x .47 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
32	.2500 x .47 DP	*	+0.013 / +0.000	+0.038 / +0.028	—
40	.3125 x .63 DP [8 x 16 DP]	* [+.010 / -.024]	+0.013 / +0.000 +.033 / +.008	+0.038 / +0.028 —	— +.015 / -.000
50	.3125 x .63 DP [8 x 16 DP]	* [+.010 / -.024]	+0.013 / +0.000 +.033 / +.008	+0.038 / +0.028 —	— +.015 / -.000
63	.375 x .79 DP [10 x 20 DP]	* [+.010 / -.024]	+0.013 / +0.000 +.033 / +.008	+0.038 / +0.028 —	— +.015 / -.000

NOTES:

- 1) * ALL IMPERIAL HOUSINGS AND SB TOOL PLATES HAVE J3 DOWEL HOLES AS STANDARD
- 2) NUMBERS IN [] ARE FOR METRIC UNITS DESIGN #5

DOWEL HOLE AVAILABILITY

DESIGN NO.	ITEM	DOWEL HOLES		
		J3	J4	J8
1 (IMPERIAL)	HOUSING	(J3 STD)	STD	OPT
	SAX TOOL PLATE	NONE	OPT	OPT
	SBx TOOL PLATE	(J3 STD)	STD	OPT
2 (METRIC)	HOUSING	PD	OPT	—
	SAX TOOL PLATE	PD	OPT	—
	SBx TOOL PLATE	PD	OPT	—

NOTES:

- 1) SEE DOWEL HOLE DIAMETERS TABLE FOR DIMENSIONAL INFORMATION.
- 2) STD = Standard OPT = Optional

DIMENSIONS: SERIES SxH SLIDES - LONG TRAVELS

LETTER DIM	MODEL NUMBER										
	SxH10	SxHx14	SxHx20	SxHx25	SxHx32	SxH140	SxH540	SxH150	SxH550	SxH163	SxH563
	in	in	in	in	in	mm	mm	mm	mm	in	mm
BORE	10 mm	14 mm	20 mm	25 mm	32 mm	40 mm		50 mm		63 mm	
A	1.181	1.378	1.875	2.126	2.126	2.402	61.0	2.701	68.6	3.445	87.5
B	.562	.562	.625	.787	.813	.630	16.0	.512	13.0	.670	17.0
C	.625	.875	1.250	1.496	1.688	2.1850	55.5	2.7559	70.0	3.2087	81.5
D	.375	.500	.750	.820	1.000	1.063	27.0	1.319	33.5	1.575	40.0
E	.750	1.000	1.500	1.575	2.000	2.362	60.0	2.953	75.0	3.543	90.0
F	1.614	2.244	2.992	3.465	3.937	5.375	136.5	6.375	161.9	7.520	191.0
G	.375	.500	.750	.787	1.000	1.260	32.0	1.575	40.0	1.969	50.0
H	.610	.827	1.220	1.375	1.732	1.890	48.0	2.402	61.0	2.913	74.0
J	.768	.972	1.446	1.682	1.946	2.043	51.9	2.569	65.3	3.100	78.7
K	.375	.500	.750	.875	1.000	1.181	30.0	1.378	35.0	1.437	36.5
L	.902	1.142	1.500	1.682	1.986	2.223	56.5	2.666	67.7	3.355	85.2
M	.768	.972	1.346	1.682	1.791	2.043	51.9	2.569	65.3	3.100	78.7
N	.282	.342	.525	.575	.575	.728	18.5	.797	20.2	.984	25.0
P	.437	.562	.875	1.074	1.197	1.431	36.3	1.628	41.4	1.687	42.8
Q	.236	.394	.472	.630	.787	.984	25.0	1.181	30.0	1.375	35.0
R	.220	.342	.525	.575	.575	.650	16.5	.690	17.5	.984	25.0
S	.327	.990	1.240	1.457	1.529	2.340	59.4	2.810	71.4	3.290	83.6
T	—	.263	.519	.629	.879	.840	21.3	.870	22.1	1.060	26.9
U	.447	.558	.733	.885	.827	1.125	31.8	1.167	32.8	1.282	35.8
V	.670	—	—	—	—	—	—	—	—	—	—
W	1.181	1.614	2.126	2.598	2.875	3.818	97.0	4.606	117.0	5.394	137.0
Y	#6-32 x .39 DP	#10-24 x .50 DP	1/4-20 x .63 DP	5/16-18 x .75 DP	5/16-18 x .88 DP	3/8-16 x .84 DP	M10 x 1.5 x 20 DP	3/8-16 x .94 DP	M10 x 1.5 x 25 DP	1/2-13 x 1.05 DP	M12 x 1.75 x 26.5 DP
AA	.070	.087	.140	.132	.134	.118	3.0	.118	3.0	.119	3.0
BB	#10-32	#10-32	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 BSPP	1/8 NPT	1/8 BSPP	1/4 NPT	1/4 BSPP
CC	#4	#6	#10	1/4	1/4	5/16	M8	5/16	M8	3/8	M10
DD	.312	.438	.625	.748	.844	1.0925	27.75	1.3780	35.0	1.6044	40.75
EE	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2
FF	#4-40	#6-32	#10-24	1/4-20	1/4-20	5/16-18	M8 x 1.25	3/8-16	M10 x 1.5	1/2-13	M12 x 1.75
GG	.500	.750	1.000	1.118	1.500	1.969	50.0	2.362	60.0	2.756	70.0
HH	#4	#6	#10	1/4	1/4	5/16	M8	3/8	M10	1/2	M12
JJ	.512	.769	1.104	1.421	1.520	1.625	40.0	2.000	50.0	2.500	65.0
KK	.250	.270	.534	.614	.645	.844	21.4	.977	24.3	.912	23.9
LL	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1	SEE TABLE 1
MM	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2	SEE TABLE 2
NN	1.250	1.750	2.500	2.992	3.375	3.347	85.0	3.898	99.0	4.213	107.0
PP	.625	.875	1.250	1.496	1.688	2.165	55.0	2.559	65.0	3.150	80.0

* LONG TRAVEL METRIC SLIDES AVAILABLE AS STANDARD AS 100 mm TRAVEL. CONSULT PHD FOR ADDITIONAL TRAVEL LENGTHS

TABLE 1 - STROKE RELATED DIMENSIONS

BORE	10 mm		14 mm		20 mm		25 & 32 mm		40, 50 & 63 mm	
LETTER DIM TRAVEL	LL	MM	LL	MM	LL	MM	LL	MM	LL	MM
2.0 in	4	2	4	2	—	—	—	—	—	—
3.0 in	4	2	4	2	—	—	—	—	—	—
100 mm	—	—	—	—	—	—	—	—	4	2
4.0 in	6	4	6	4	4	2	4	2	4	2
5.0 in	—	—	6	4	6	4	4	2	4	2
6.0 in	—	—	6	4	6	4	4	2	4	2
7.0 in	—	—	—	—	6	4	6	4	6	4
8.0 in	—	—	—	—	6	4	6	4	6	4

NOTES:

- 1) SEE TABLE ON PREVIOUS PAGE FOR DOWEL HOLE OPTION AVAILABILITY.
- 2) SEE OPTIONS SECTION FOR J3, J4, & J8 OPTIONS.

SxL SxH

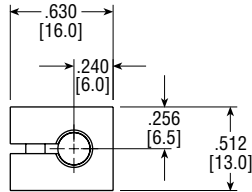
OPTIONS: SERIES SxL/SxH SLIDES

AE

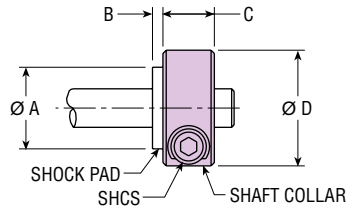
TRAVEL ADJUSTMENT ON EXTEND

This option provides both travel adjustment stop collars and shock pads on extension only. The travel adjustment stop collars provide infinite adjustment while the shock pads provide excellent noise reduction and energy absorption capability.

NOTE: AE travel adjustments are available as a kit. To specify, give the full unit description -H9031. Each travel adjustment kit contains 2 steel shaft collars, 2 shock pads, and 2 SHCS.



SIZE 08 ONLY



UNIT SIZE	LETTER DIMENSION [mm]			
	A	B	C	D
8	.375 [9.5]	.064 [1.6]	—	—
10	.500 [12.7]	.064 [1.6]	.315 [8.0]	.709 [18.0]
14	.591 [15.0]	.064 [1.6]	.433 [11.0]	.875 [22.2]
20	.865 [22.0]	.125 [3.2]	.511 [13.0]	1.125 [28.6]
25	.945 [24.0]	.199 [5.0]	.511 [13.0]	1.375 [34.9]
32	1.125 [28.6]	.199 [5.0]	.590 [15.0]	1.500 [38.1]
40	1.500 [38.1]	.250 [6.4]	.708 [18.0]	2.026 [51.5]
50	1.750 [44.5]	.250 [6.4]	.749 [19.0]	2.345 [59.6]
63	2.120 [53.8]	.250 [6.4]	.866 [22.0]	2.750 [69.9]

TRAVEL ADJUSTMENT KIT

UNIT SIZE	KIT NUMBER		COLLAR SCREWS	
	STANDARD	Z1 OPTION	MAX TORQUE	
8	73439-1	73439-2	22 in/lb	[2.5 Nm]
10	73440-1	73440-2	22 in/lb	[2.5 Nm]
14	73441-1	73441-2	50 in/lb	[5.6 Nm]
20	73442-1	73442-1	100 in/lb	[11.3 Nm]
25	74822-1	74822-2	100 in/lb	[11.3 Nm]
32	73443-1	73443-2	150 in/lb	[16.9 Nm]
40	79636-1	79636-2	350 in/lb	[39.5 Nm]
50	79637-1	79637-2	350 in/lb	[39.5 Nm]
63	79638-1	79638-2	700 in/lb	[79.1 Nm]

J3

TRANSITIONAL FIT DOWEL PIN HOLES

Transitional fit dowel pin holes in the tool plate and housing provides a compromise fit between clearance and interference. Transitional fits are used where accuracy of location is important, but a small amount of clearance in order to simplify the installation of dowel pins is permissible.

J4

CLEARANCE FIT DOWEL PIN HOLES

Clearance fit dowel pin holes in the tool plate and housing are used when extra clearance is needed due to inaccuracies of attached tooling. Available on imperial units only.

J8

PRECISION FIT DOWEL PIN HOLES

H7 tolerance precision fit dowel pin holes in the tool plate and housing are used where accuracy of location is of prime importance. Ideal for parts requiring rigidity and alignment. Metric units only.

Q6

TOTAL CORROSION RESISTANT GUIDE SHAFTS

Stainless steel hard chrome guide shafts on the Series SxL Slides and corrosion resistant coating on the Series SxH Slides for use in applications where moisture may corrode untreated, hardened and ground shafts. For sizes and locations, see dimension pages.

Z1

TOTAL CORROSION RESISTANT UNIT

Includes Q6 guide shafts with stainless steel or electroless nickel plating on all other externally exposed ferrous parts. Used for protecting the slide from severe or corrosive environments.

M

MAGNET FOR PHD SERIES 6790 & JC1 SWITCHES

This option equips the unit with a magnetic piston for use with PHD's Series 6790 and JC1 Switches. The switch housing is completely contained by the slide housing and provides a very compact switch design. The switches mount easily to the slide housing using two small grooves located on the top of the unit and are locked into place with a set screw. See Switches and Sensors section for additional switch information and complete specifications.

SERIES 6790 & JC1 SWITCHES

PART NO.	DESCRIPTION
67902-1-05	PNP (Source) or NPN (Sink) Reed, 4.5-30 VDC, 5 m cable
JC1SDN-5	NPN (Sink) Solid State, 10-30 VDC, 5 m cable
JC1SDP-5	PNP (Source) Solid State, 10-30 VDC, 5 m cable
67922-1	PNP (Source) or NPN (Sink) Reed, 4.5-30 VDC, Quick Connect
JC1SDN-K	NPN (Sink) Solid State, 10-30 VDC, Quick Connect
JC1SDP-K	PNP (Source) Solid State, 10-30 VDC, Quick Connect
67929-2	PNP (Source) or NPN (Sink) Reed, 65-120 VDC, Quick Connect

NOTE: See Switches and Sensors section for additional switch information and complete specification.

SERIES 6790 & JC1SDx CORDSET CHART

PART NO.	DESCRIPTION
63549-02	M8, 3 pin, Straight Female Connector, 2 m cable
63549-05	M8, 3 pin, Straight Female Connector, 5 m cable

TORQUE CHART

SWITCH	TORQUE
6790	16 in-oz
JC1SDx	Hand tighten clockwise until switch is securely retained. Do not overtighten.