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T, TS08

Series T, TS08 Slides

SERIES T



SERIES TS08



For new applications, we recommend Series SD/SE & SK/SL Slides. Refer to our main catalog or visit www.phdinc.com/sdse www.phdinc.com/sksl

For new applications, we recommend Series SD/SE Slides.
Refer to our main catalog or visit www.phdinc.com/sdse

Benefits

- **Linear ball bushings** or PHD's ***TC*** fluoropolymer composite bushings are available in each series providing the best value with the least possible slide deflection.
- Four bushings allow two hardened precision ground shafts to move smoothly while supporting the tool plate and attached loads, providing rugged precise linear motion.
- Oversized guide shafts are available with ***TC*** bushings for maximum rigidity and minimum deflection.
- **Linear ball bushings** provide optimum tool plate accuracy.
- ***TC*** bushings are supplied with internal lubrication for maximum life.
- Shaft seals are provided on units with linear ball bushings to protect them from external contamination.
- Available in five sizes each with an oversized shaft available on each size to fit a wide range of linear motion applications.
- Anodized aluminum alloy tool plates have combination tapped and counterbored holes and a precisely machined mounting surface, permitting easy attachment of fixturing.
- Units are powered by PHD Cylinders for long life and a wide range of control and switch accessories.
- Options include travel adjustments, shock pads, HushStop pads, built-in speed controls (Port Control®), and cushions to fit the slide to your specific requirements.
- PHD Reed and Hall Effect Switches and industrial proximity switches are available for easy interfacing to electronic controls and logic systems.



- Ports, Port Control, cushion, switch adjustments, and travel adjustment are on one side for easy access.
- PHD cylinders are equipped with new long life Buna-N seals. This will reduce maintenance cost and improve cylinder performance.
- The HushStop shock pad option provides significant noise reduction, up to 50%, dependent upon the slide type, size, and your specific application.

For new applications, we recommend Series SK/SL Slides.
Refer to our main catalog or visit www.phdinc.com/sksl

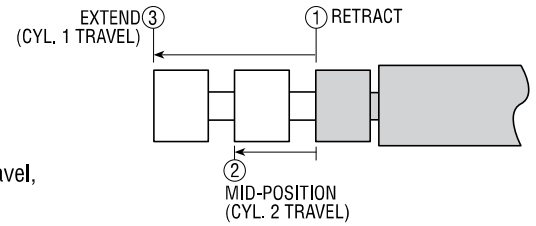
Benefits

- All SK and SL Slides can have either linear ball bushings or ***TC*** fluoropolymer composite bushings to provide optimum performance with minimum slide deflection for all types of applications.
- SK and SL Slides are available in six sizes for application to a wide range of tasks.
- Four bushings allow the hardened and precision ground shafts to move smoothly, ensuring rugged, precise linear motion of the tool plate and load.
- Oversize guide shafts are available with ***TC*** bushings for maximum rigidity and minimum deflection.
- Linear ball bushings and ***TC*** bushings have internal lubrication for maximum life.
- **Linear ball bushings** provide lowest friction, highest load capacity, and optimum accuracy of tool plate motion.
- Units with linear ball bushings have shaft wipers to exclude external contaminants.
- Anodized aluminum alloy tool plates with combination tapped and counterbored holes and a precisely machined mounting surface permit easy attachment of tooling.
- Slides are available without a cylinder and supplied with complete hardware for mounting standard VDMA/ISO cylinders.



- Series SK and SL Slides are provided with Series CV Cylinders (sizes 72 - 76 only) which provide the following advantages:
  - ✔ Units specified with the **Hushcontrol Advantage** provide superb speed and deceleration control and environmentally friendly noise levels.
  - ✔ Internal shock pads are standard.
  - ✔ Wide range of options.
  - ✔ Optional **Rodlok**
  - ✔ See additional benefits in the Series CV catalog.
- Provisions for 8 mm or 12 mm proximity switches are standard on all units.
- Dowel pin holes are standard on housings and tool plates, and are available with a variety of optional fits.
- Units bolt and dowel directly to metric Series SG gantry slides without need of a transition plate. (sizes 71-75 only)

3 POSITION DETAIL



TO ORDER SPECIFY:
Three Position Unit, Model, Size, Design No., Slide Travel, Mid-Position Travel, Tool Plate Extension, and Options.

THREE POSITION UNIT
(specify only if needed)

SIZE
03 - 3/8" Shaft
04 - 1/2" Shaft
06 - 3/4" Shaft

DESIGN NO.

SLIDE TRAVEL
(1" increments)
03 - 1" to 6"
04 - 1" to 8"
06 - 1" to 12"
Consult factory for longer travel lengths. Total slide travel from retract position 1 to extend position 3.

OPTIONS
A - Travel Adjustment on extension and retraction
I - Crossover with Reservoir plumbed, filled, and bled of air (TT model only)
J1 - Close fit dowel pin holes in the tool plate
J2 - Normal fit dowel pin holes in the tool plate
L - Travel Adjustment on retraction
N - Travel Adjustment on extension
Q - Corrosion resistant guide shafts
R1 - Close fit dowel pin holes in the slide body
R2 - Normal fit dowel pin holes in the slide body
X - Crossover tube, unit filled with oil and bled of air (TT Model only)
NOTE: See dimension pages for locations and tolerances of dowel pin holes.

3 TS 03 1 x 2 x 1 x 1 - A - M-V

MODEL
TS - Slide - 150 psi Air max.
TH - Slide - 150 psi Hyd. max.
TT - Tandem - Air/oil cylinder with 150 psi Air max.

MID-POSITION TRAVEL
Specify for 3 position units. Travel from retract position 1 to mid-position 2.

TOOL PLATE EXTENSION
Additional distance between tool plate and bearing block in 1" increments. Leave blank if no additional extension is required.

CYLINDER OPTIONS
H1 - Slide with no cylinder supplied
B - Shock Pads on both ends (TS Models only)
D - Cushions on both ends (TS Models only)
E - Magnetic Piston (Hall Effect)
M - Magnetic Piston (Reed)
V - Fluoro-Elastomer Seals

NOTES:
1) Cylinders are Series AV, HV, or TD.
2) Port Controls are standard on all models.
3) Shock pads available on TS models only.
4) -B not available with -A, -L, -N, or -D.
5) -N uses shock pads along with the stop collars on the shafts.
6) -D not available with -A, -L, -N, -B, or on the TT model.
7) Metric versions available. Contact PHD for specifications and literature.

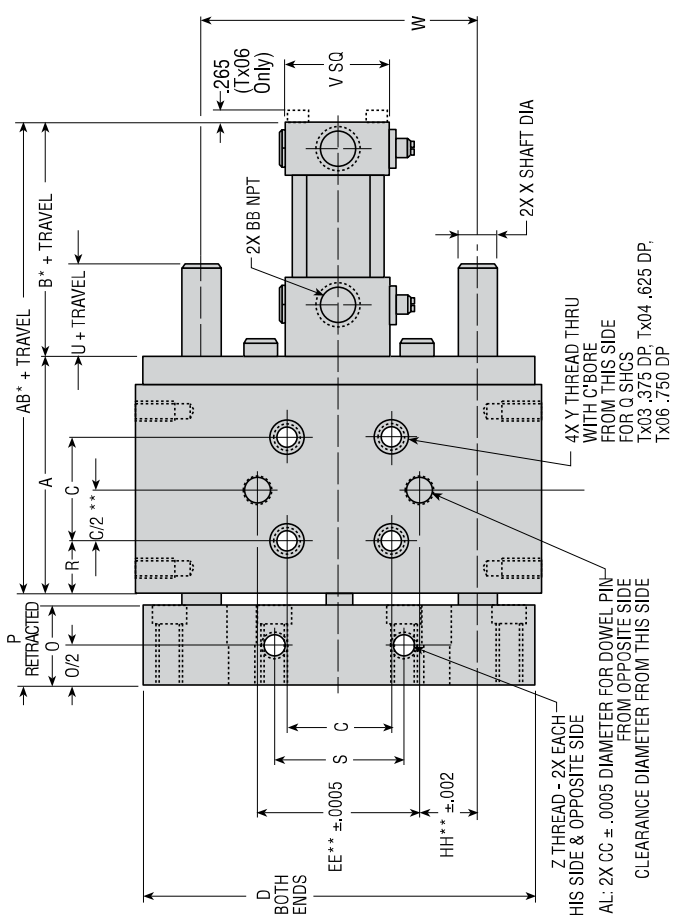
Options may affect unit length. See unit dimension and options pages for adders.

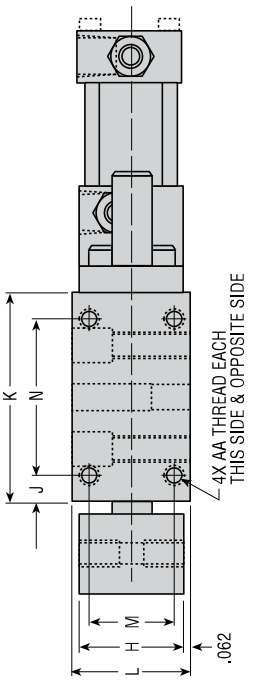
PROXIMITY SWITCH MOUNTING BRACKETS

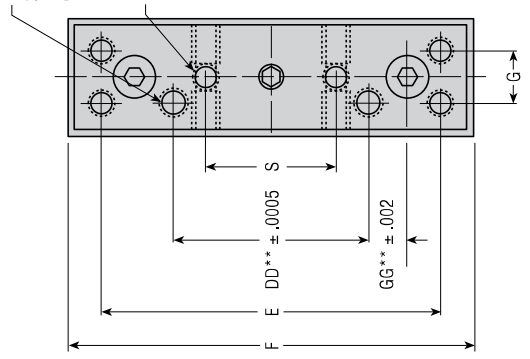
SLIDE SIZE	SIZE NO.
03	-31
04	-33
06	-34

See Switches and Sensors section in PHD's main catalog for complete ordering information.

DIMENSIONS: SERIES T SLIDES





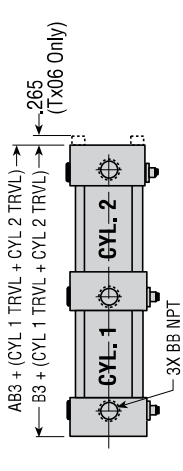


OPTIONAL CC DOWEL PIN HOLE

SLIDE SERIES	OPTION J1/R1 CLOSE FIT	OPTION J2/R2 NORMAL FIT
Tx03	.2509	.2520
Tx04	.3134	.3145
Tx06	.3759	.3770

MTG. HOLES: CENTERED ON CENTERLINE OF UNIT
DOWEL PIN HOLES: ARE OPTIONAL

TT0x (TANDEM) SERIES DETAIL



3 POSITION DETAIL

SLIDE MODEL	BORE SIZE	LETTER DIMENSION																														
		A	AB*	AB2	B*	B2	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	U	V	W	X	Y	Z	AA	BB	DD**	EE**	GG**	HH**
Tx03	3/4"	2.250	4.500	7.250	2.250	5.000	1.000	3.750	3.250	3.875	.500	1.000	.250	2.000	1.125	.812	1.500	.750	.875	#10	.500	1.250	.875	1.000	2.625	.375	1/4-20	1/4-20 x .38 DP	10-24 x .38 DP	1/8	1.875	1.562	.375	.531
Tx04	1-1/8"	3.000	5.250	8.000	2.250	5.000	1.500	4.250	3.625	4.375	1.000	1.500	.375	2.750	1.625	1.125	2.000	.875	1.000	1/4	.625	1.500	.875	1.500	3.125	.500	5/16-18	5/16-18 x .50 DP	1/4-20 x .38 DP	1/8	2.375	1.750	.376	.687
Tx06	1-3/8"	3.812	7.625	12.375	3.812	8.562	1.750	5.625	4.875	5.750	1.125	1.875	.250	3.500	2.000	1.500	3.000	1.125	1.250	5/16	.875	2.000	.938	1.875	4.000	.750	3/8-16	3/8-16 x .63 DP	5/16-18 x .50 DP	1/4	3.125	2.188	.438	.906

SLIDE MODEL	BORE SIZE	LETTER DIMENSION	
		AB3	B3
Tx03	3/4"	6.562	4.312
Tx04	1-1/8"	7.312	4.312
Tx06	1-3/8"	11.125	7.312

* ADD 1/4" FOR EACH SHOCK PAD
ADD 1/2" FOR EACH CUSHION ON Tx03 & Tx04 ONLY

**OPTIONAL DOWEL PIN HOLES

All dimensions are reference only unless specifically toleranced.

TO ORDER SPECIFY:
Model, Size, Design No., Slide Travel, Tool Plate Extension, and Options.

OPTIONS
A - Travel adjustment on extension and retraction
J1 - Close fit dowel pin holes in the tool plate
J2 - Normal fit dowel pin holes in the tool plate
L - Travel adjustment on retraction
N - Travel adjustment on extension
Q - Corrosion resistant Guide Shafts
R1 - Close fit dowel pin holes in the Slide body
R2 - Normal fit dowel pin holes in the Slide body
NOTE: See dimension pages for locations and tolerances of dowel pin holes.

SIZE
08 - 1" Shafts with 2-1/2" Bore Cylinder

DESIGN NO.

SLIDE TRAVEL
(1" increments)
Available in 1" to 24"

TS 08 2 x 2 x 1 - A - M-V

MODEL
TS - Slide - 150 psi Air Max.

TOOL PLATE EXTENSION
Additional distance between tool plate and bearing block in 1" increments. Leave blank if no additional extension is required.

Options may affect unit length. See unit dimension and options pages for adders.

CYLINDER OPTIONS
B - Shock pads on both ends
D - Cushions on both ends
E - Magnetic Piston (Hall Effect)
M - Magnetic Piston (Reed)
H1 - Slide with no cylinder supplied
V - Fluoro-Elastomer Seals
Y - Distributor Supplied cylinder

NOTES:
1) Cylinder is NFPA 2-1/2" bore MR1 mount.
2) -B and -D options are not available together.
3) Specify -Y option to order a distributor supplied cylinder. Cylinder is to be an NFPA 2-1/2" bore "MR1" (Head Male Rabbet mtg.) or "MX3" (Heads Tierod extended mtg.). Dimensions with 5/8" rod, style "SF" Rod End with 7/16-20 female thread x .750 deep with 3-3/4" rod extension. (NFPA "MX3" mtg. dim. "W" equals 3-3/4" or dim. "C" and "V" added together equals 3-3/4") dim. taken from front face of the head to the end of the rod. If the cylinder has cushions, the adjustment needle must be on the side opposite the port.
4) Shock absorbers cannot be used on units with cushions (-D option)

PROXIMITY SWITCH MOUNTING BRACKETS

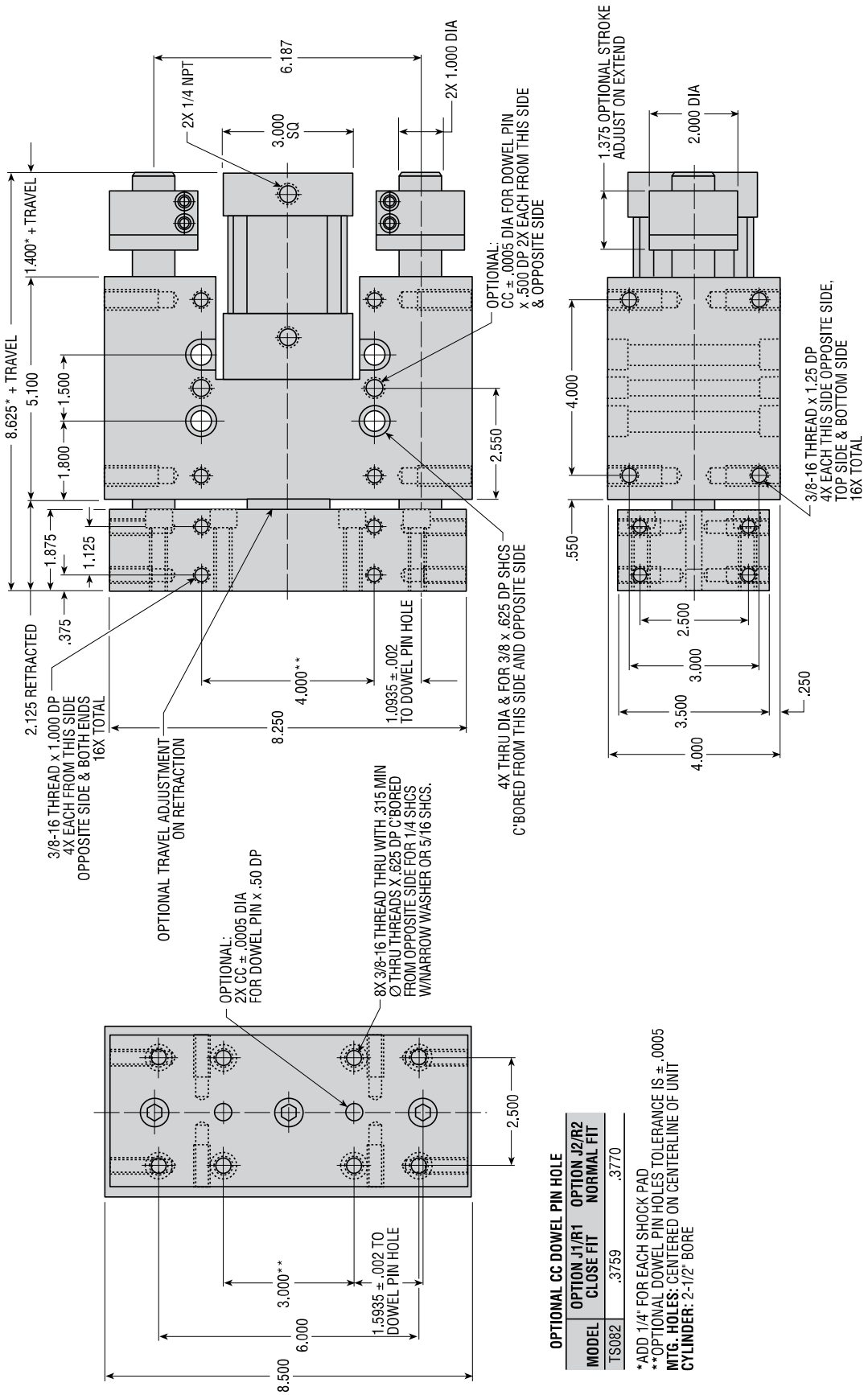
DESCRIPTION	BRACKET NUMBER
LIMIT SWITCH WITHOUT CONDUIT (AN12 TYPE)	17755-01
LIMIT SWITCH WITH CONDUIT (AN12 TYPE)	17755-02
LIMIT SWITCH WITHOUT CONDUIT (AB12 TYPE)	17755-03

For all Compact Switches, use bracket number 50256.

SHOCK ABSORBERS AND KITS

DESCRIPTION	WITH SHOCK	WITHOUT SHOCK
EXTEND KIT	19578	19581
RETRACT KIT	19579	19580
SHOCK ONLY	11036-002	—

DIMENSIONS: SERIES TS08 SLIDES



OPTIONAL CC DOWEL PIN HOLE

MODEL	OPTION J1/R1 CLOSE FIT	OPTION J2/R2 NORMAL FIT
TS082	.3759	.3770

*ADD 1/4" FOR EACH SHOCK PAD
**OPTIONAL DOWEL PIN HOLES TOLERANCE IS ± .0005
MTG. HOLES: CENTERED ON CENTERLINE OF UNIT
CYLINDER: 2-1/2" BORE

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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