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ENGINEERING DATA: SERIES SJP RAIL BEARING SLIDES

PRESSURE RATINGS

All Series SJP Slides have an operating pressure range of 20 psi minimum to 100 psi maximum [1.4 to 6.9 bar]. Maximum life will be achieved when pressure and velocity are no greater than necessary for proper operation. External flow controls are recommended. Series SJP Slides feature standard pneumatic ports on the end and both sides of the slide body, and are provided with the end ports ready for use and the side ports plugged with set screws and thread sealant.

OPERATING TEMPERATURE

Series SJP Slides are designed for use in temperatures between -20° to 180° F [-29° to 82° C]. For temperatures outside this range, consult PHD.

SEALS

Series SJP Slides utilize urethane and Nitrile seals which are compatible with standard paraffin-based lubrication oils used for pneumatic cylinders. For compatibility with other fluids, consult PHD.

LUBRICATION

All units are pre-lubricated at the factory for service under normal operating conditions. Slides are designed and tested with non-lubricated air. However, the use of lubricated air will extend life.

TOTAL TRAVEL LENGTH AND WEIGHT

Tolerance of minimum travel length is +.039/-.000 [+1 mm/-0 mm].

SIZE	MINIMUM TRAVEL in	mm	UNIT BASE WEIGHT lb	kg
08	(.394)	10	.16	.07
	(.591)	15	.18	.08
	(.984)	25	.21	.10
12	(.591)	15	.32	.15
	(.787)	20	.35	.16
	(.984)	25	.39	.18
16	(.591)	15	.57	.26
	(.984)	25	.65	.29
	(1.181)	30	.68	.31

MATERIAL SPECIFICATIONS

The slide housing and tool plate are anodized aluminum alloy. Linear rail and bearings are hardened and ground stainless steel.

MAINTENANCE

In common with most PHD products, these slides are fully field repairable. Repair kits and main structural components are available as needed for extended service life.

MOUNTING INSTRUCTIONS

PHD recommends to mount load or tooling with tool plate retracted. Support tool plate while tightening fasteners. Maximum mounting torques (for screw thread engagement of one diameter or greater):

FASTENER SIZE	in-lb	Nm
M3	9	1
M4	18	2
M5*	35	4

*MOUNTING HOLES ONLY, PORT FITTINGS REQUIRE LESS

OPTIONS: SERIES SJP RAIL BEARING SLIDES

M — MAGNET FOR PHD SERIES 6790 REED AND SOLID STATE SWITCHES

This option equips the unit with a magnetic piston for use with PHD's Series 6790 Switch. The switch housing is contained by the slide housing and provides a very compact switch design. The switches mount easily into two small grooves located on the side of the slide housing and are locked into place with a set screw.

PART NO.	DESCRIPTION
67902-1-02	NPN (Sink) or PNP (Source) DC Reed, 2 m cable
67902-1-05	NPN (Sink) or PNP (Source) DC Reed, 5 m cable
67903-1-02	NPN (Sink) DC Solid State, 2 m cable
67903-1-05	NPN (Sink) DC Solid State, 5 m cable
67904-1-02	PNP (Source) DC Solid State, 2 m cable
67904-1-05	PNP (Source) DC Solid State, 5 m cable
67922-1	NPN (Sink) or PNP (Source) DC Reed, Quick Connect
67923-1	NPN (Sink) DC Solid State, Quick Connect
67924-1	PNP (Source) DC Solid State, Quick Connect
63549-02	2 m Cordset with Quick Connect
63549-05	5 m Cordset with Quick Connect

MA — MAGNET FOR COMPETITOR'S REED AND SOLID STATE SWITCHES

The Series SJP can be used as an exact drop-in replacement for a competitor's commercially available rail slide. If the Series SJP is being used to replace the competitor's slide, and you wish to continue using their switches, the MA option must be specified. For additional information and switch compatibility, contact your local PHD distributor or PHD customer service.

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Phone 02401-805 230 • Fax 02401-805 232

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PART NO.: 6441-451A

phd SERIES SJP SLIDES INFORMATION SHEET

IMPORTANT INFORMATION DO NOT DISCARD!

Use this information sheet to assist with slide installation and setup.
File with maintenance or machine documentation.

Ordering Data

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

BORE SIZE	TRAVELS**
08 8 mm [.315 in]	10 mm [.394 in], 15 mm [.591 in], 25 mm [.984 in]
12 12 mm [.472 in]	15 mm [.591 in], 20 mm [.787 in], 25 mm [.984 in]
16 16 mm [.630 in]	15 mm [.591 in], 25 mm [.984 in], 30 mm [1.181 in]

PRODUCT
S - Slide

BEARING TYPE
P - Rail Bearing

S J P 5 12 x 20 – M

SERIES
J - Miniature precision

DESIGN NO.
5- Metric -Ports and mounting holes are metric

OPTIONS
M - Magnetic piston for **PHD** Series 6790 switches
MA*- Magnetic piston for **competitor** switches

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NOTES:
*See reverse side of sheet for use of the -MA option.
**Consult PHD for additional travel increments.

For additional technical assistance, call or visit our web site:

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