

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

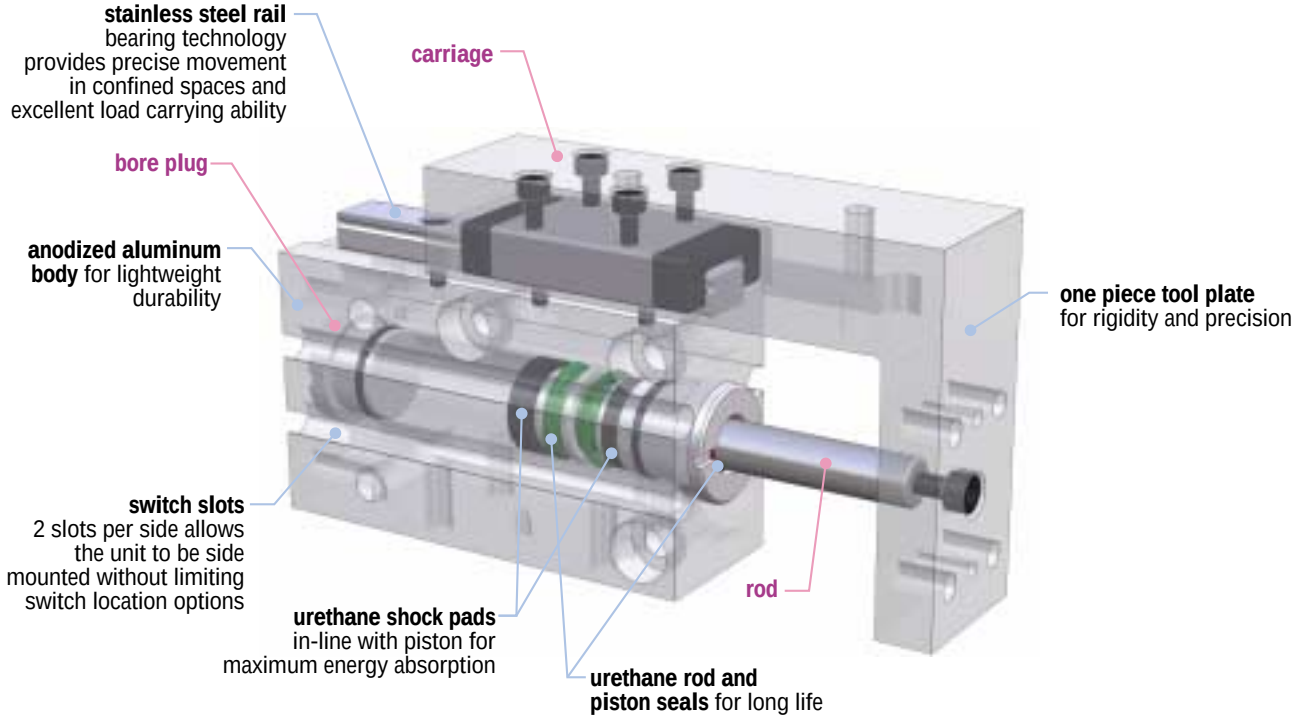
Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *PHD 63549-02* at our website: *Click HERE*

COMPACT PRECISION RAIL BEARING TECHNOLOGY





Major Benefits

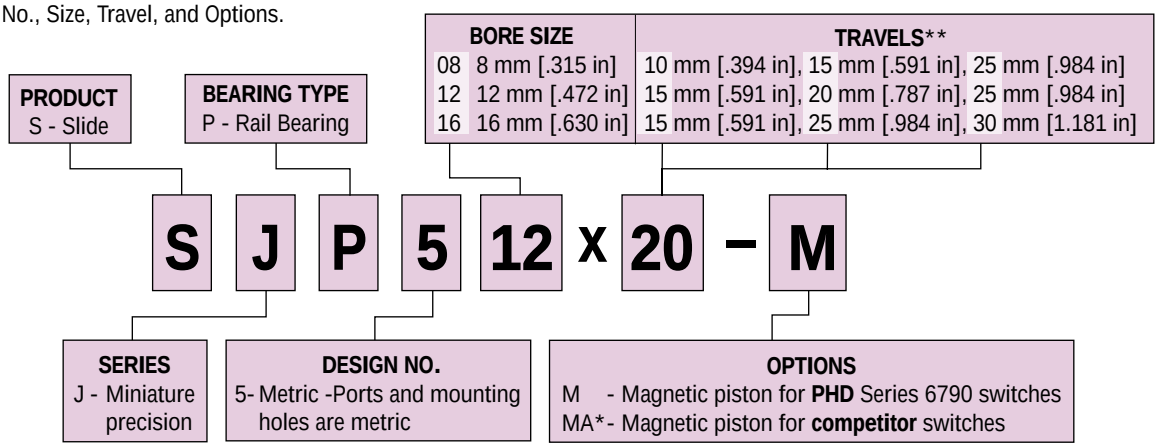
- Cost effective MRO replacement unit that operates with certain competitor's switches
- Multiple mounting surfaces for flexibility
- High load carrying capacity
- 3 bore sizes
- 3 standard port locations
- One piece tool plate

Industry Uses

- Assembly machine builders
- Precision assembly equipment
- Testing equipment
- Life science
- Semiconductor
- Medical
- Optical
- Light bulb
- Material handling
- Automotive

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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



SERIES 6790 PROXIMITY SWITCHES

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
67909-1-02	AC Reed, Current Limited, 2 m cable
67909-1-05	AC Reed, Current Limited, 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
67929-1	AC Reed, Current Limited, 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

NOTES:
*See page 2-29 for use of the -MA option.
**Consult PHD for additional travel increments.

www.phdinc.com/sjp · (800) 624-8511
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SPECIFICATIONS	SERIES SJP
OPERATING PRESSURE	20 psi min to 100 psi max [1.4 bar min to 6.9 bar max] air
OPERATING TEMPERATURE	-20° to + 180°F [-29° to + 82°C]
TRAVEL TOLERANCE	Nominal travel, +.039/-.000 inch [+1.0/-0.0 mm]
REPEATABILITY	±0.001 [± .025 mm] of original position
VELOCITY	30 in/sec [0.76 m/sec] max (zero load at 100 psi [6.9 bar])
LUBRICATION	Factory lubricated for life
MAINTENANCE	Field repairable

SIZE	TRAVEL in	TRAVEL mm	TRAVEL TIME mm	ROD DIAMETER in	ROD DIAMETER mm	BORE DIAMETER in	BORE DIAMETER mm	EXTEND PISTON AREA in²	EXTEND PISTON AREA mm²	RETRACT PISTON AREA in²	RETRACT PISTON AREA mm²	BASE WEIGHT lb	BASE WEIGHT kg	MAX DYNAMIC LOAD lb	MAX DYNAMIC LOAD N	TYPICAL DYNAMIC LOAD lb	TYPICAL DYNAMIC LOAD N
08	0.39	10	0.03	.157	4	.315	8	.08	50	.06	38	0.16	0.07	1.13	5	0-.68	0-2.5
	0.59	15	0.04									0.18	0.08				
	0.98	25	0.07									0.21	0.10				
12	0.59	15	0.04	.236	6	.472	12	.17	110	.13	85	0.32	0.15	2.25	10	.23-1.8	1-8
	0.79	20	0.06									0.35	0.16				
	0.98	25	0.07									0.39	0.18				
16	0.59	15	0.04	.236	6	.630	16	.31	200	.27	170	0.57	0.26	3.38	15	.51-3.15	2.25-14
	0.98	25	0.07									0.65	0.29				
	1.18	30	0.08									0.68	0.31				

NOTE: Thrust capacity, allowable mass and dynamic moment capacity must be considered when selecting a slide. Refer to PHD's sizing software or the product technical manual for complete sizing and selection information.

CYLINDER FORCE CALCULATIONS

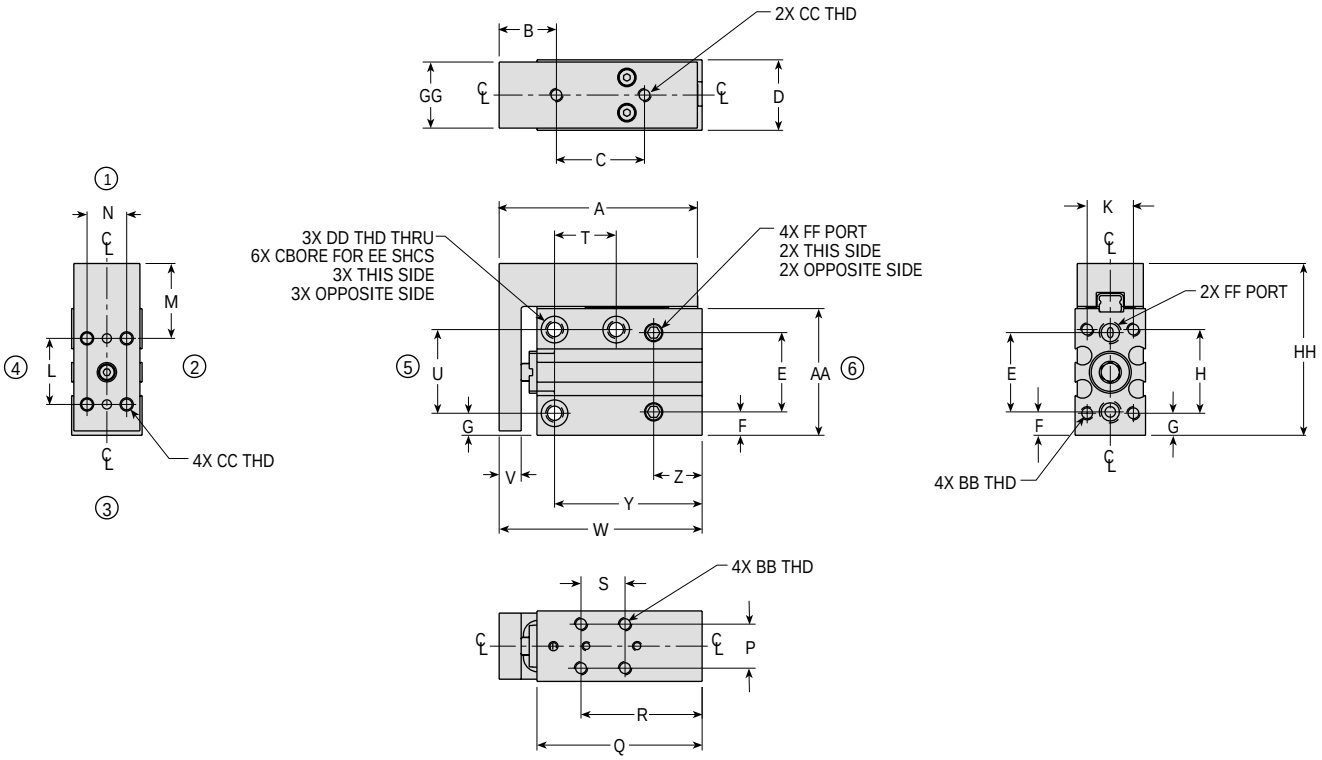
	IMPERIAL F = P x A	METRIC F = 0.1 x P x A
F = Cylinder Force	lbs	N
P = Operating Pressure	psi	bar
A = Effective Area (Push or Pull)	in^2	mm^2

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***

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

DIMENSIONS: SERIES SJP RAIL BEARING SLIDES



LETTER DIM.	SIZE 08 TRAVEL, in [mm]						SIZE 12 TRAVEL, in [mm]						SIZE 16 TRAVEL, in [mm]					
	.394	[10]	.591	[15]	.984	[25]	.591	[15]	.787	[20]	.984	[25]	.591	[15]	.984	[25]	1.181	[30]
A	1.969	[50.0]	2.165	[55.0]	2.559	[65.0]	2.441	[62.0]	2.638	[67.0]	2.953	[75.0]	2.953	[75.0]	3.346	[85.0]	3.543	[90.0]
B			0.512	[13.0]					0.591	[15.0]					0.709	[18.0]		
C	.787	[20.0]	0.984	[25.0]	1.575	[40.0]	.984	[25.0]	1.181	[30.0]	1.575	[40.0]	1.378	[35.0]	1.772	[45.0]	1.969	[50.0]
D			.630	[16.0]					.787	[20.0]					.984	[25.0]		
E			.709	[18.0]					.866	[22.0]					.984	[25.0]		
F			.209	[5.3]					.217	[5.5]					.256	[6.5]		
G			.197	[5.0]					.197	[5.0]					.217	[5.5]		
H			.748	[19.0]					.906	[23.0]					1.063	[27.0]		
K			.413	[10.5]					.512	[13.0]					.669	[17.0]		
L			.591	[15.0]					.709	[18.0]					1.024	[26.0]		
M			.669	[17.0]					.846	[21.5]					.846	[21.5]		
N			.354	[9.0]					.433	[11.0]					.630	[16.0]		
P			.394	[10.0]					.512	[13.0]					.669	[17.0]		
Q	1.673	[42.5]	1.870	[47.5]	2.264	[57.5]	2.028	[51.5]	2.224	[56.5]	2.539	[64.5]	2.441	[62.0]	2.835	[72.0]	3.031	[77.0]
R	1.279	[32.5]	1.476	[37.5]	1.870	[47.5]	1.555	[39.5]	1.752	[44.5]	2.067	[52.5]	1.969	[50.0]	2.362	[60.0]	2.559	[65.0]
S	.591	[15.0]	.787	[20.0]	1.181	[30.0]	.709	[18.0]	.945	[24.0]	1.260	[32.0]	1.181	[30.0]	1.575	[40.0]	1.772	[45.0]
T	.551	[14.0]	.945	[24.0]	1.339	[34.0]	.945	[24.0]	.945	[24.0]	1.339	[34.0]	1.339	[34.0]	1.575	[40.0]	1.575	[40.0]
U			.748	[19.0]					.906	[23.0]					1.063	[27.0]		
V			.197	[5.0]					.276	[7.0]					.374	[9.5]		
W	2.008	[51.0]	2.205	[56.0]	2.598	[66.0]	2.480	[63.0]	2.677	[68.0]	2.992	[76.0]	2.993	[76.0]	3.386	[86.0]	3.583	[91.0]
Y	1.516	[38.5]	1.713	[43.5]	2.107	[53.5]	1.831	[46.5]	2.028	[51.5]	2.343	[59.5]	2.244	[57.0]	2.638	[67.0]	2.835	[72.0]
Z			.433	[11.0]					.492	[12.5]					.512	[13.0]		
AA			1.132	[28.8]					1.319	[33.5]					1.516	[38.5]		
BB			[M3 x 0.5 x 4.8]						[M4 x 0.7 x 6.0]						[M4 x 0.7 x 6.0]			
CC			[M3 x 0.5 x 5]						[M4 x 0.7 x 6 MIN]						[M4 x 0.7 x 6 MIN]			
DD			[M4 x 0.7]						[M5 x 0.8]						[M5 x 0.8]			
EE			[M3]						[M4]						[M4]			
FF			[M5 x 0.8 PORT]						[M5 x 0.8 PORT]						[M5 x 0.8 PORT]			
GG			.591	[15.0]					.748	[19.0]					.945	[24.0]		
HH			1.536	[39.0]					1.850	[47.0]					2.106	[53.5]		

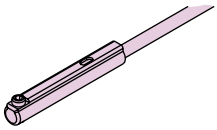
NOTES:
1) DESIGNATED ℄ IS CENTERLINE OF UNIT.
2) METRIC INFORMATION SHOWN IN [ ].
3) CIRCLED NUMBERS INDICATE POSITION.

All dimensions are reference only unless specifically toleranced.

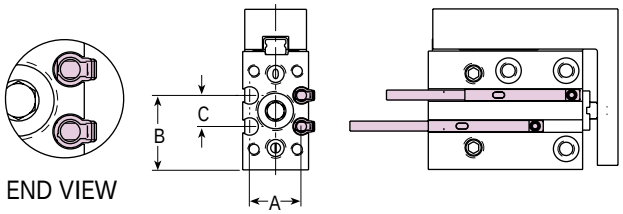
www.phdinc.com/sjp · (800) 624-8511
SOLUTIONS FOR INDUSTRIAL AUTOMATION
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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.



LETTER DIM	SIZE 08		SIZE 12		SIZE 16	
	in	mm	in	mm	in	mm
A	0.496	12.6	0.645	16.4	0.786	20.0
B	0.712	18.1	0.844	21.4	0.972	24.7
C	0.297	7.5	0.388	9.9	0.447	11.4



END VIEW

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
67909-1-02	AC Reed, Current Limited, 2 m cable
67909-1-05	AC Reed, Current Limited, 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
67929-1	AC Reed, Current Limited, 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.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

www.phdinc.com/sjp · (800) 624-8511
SOLUTIONS FOR INDUSTRIAL AUTOMATION
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP