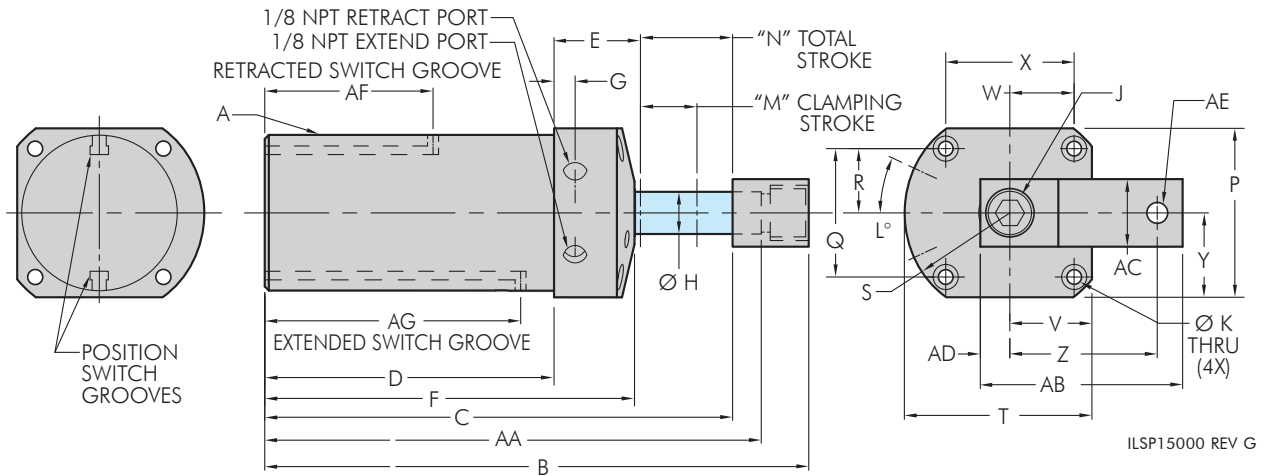


Swing Clamps

Top Flange Threaded Body Specifications

Operating temperature limits are 32-150° F

B-3



Top Flange Swing Clamp

- Double Acting (D/A) Cylinders, actuated pneumatically both directions.
- Clamps are supplied with a standard arm.



Swing Direction	Top Flange Swing Clamp Model Numbers					
RIGHT HAND	P1-5040-00	P1-5070-00	P1-5110-00	P1-5140-00	P1-5200-00	P1-5240-00
LEFT HAND	P1-5046-00	P1-5076-00	P1-5116-00	P1-5146-00	P1-5206-00	P1-5246-00
STRAIGHT	P1-5048-00	P1-5078-00	P1-5118-00	P1-5148-00	P1-5208-00	P1-5248-00
Bore	0.500	0.875	1.125	1.500	2.000	2.500
A	1 1/4 - 16	1 5/8 - 16	1 7/8 - 16	2 5/16 - 16	2 3/4 - 16	3 1/4 - 16
B	4.87	5.48	5.48	8.24	8.24	8.20
C	4.37	4.79	4.79	7.11	7.11	7.07
D	2.75	2.80	2.80	4.28	4.28	4.28
E	0.93	1.17	1.17	1.33	1.33	1.29
F	3.59	3.91	3.91	5.47	5.47	5.47
G	0.31	0.31	0.31	0.31	0.31	0.31
Ø H	0.25	0.50	0.50	0.63	0.63	0.75
J	8-32 x .5	5/16-18 x .5	5/16-18 x .5	3/8-24 x .75	3/8-24 x .75	3/8-24 x .75
Ø K	0.17	0.19	0.19	0.22	0.22	0.28
L°	23	25	25	25	25	25
M RIGHT HAND	0.40	0.47	0.47	0.75	0.75	0.75
LEFT HAND	0.40	0.47	0.47	0.75	0.75	0.75
STRAIGHT	0.69	0.82	0.82	1.50	1.50	1.50
N	0.69	0.82	0.82	1.50	1.50	1.50
P	1.44	1.75	2.00	2.50	2.87	3.40
Q	1.10	1.37	1.55	1.90	2.21	2.61
R	0.55	0.69	0.78	0.95	1.10	1.30
S	0.94	1.19	1.31	1.56	1.81	2.13
T	1.67	2.06	2.28	2.78	3.24	3.81
V	0.73	0.87	0.97	1.22	1.43	1.68
W	0.55	0.69	0.78	0.95	1.10	1.30
X	1.10	1.37	1.55	1.90	2.21	2.61
Y	0.72	0.88	1.00	1.25	1.44	1.70
Z	1.13	1.50	1.50	2.18	2.18	2.43
AA	4.59	5.02	5.02	7.56	7.56	7.56
AB	1.59	2.19	2.19	2.99	2.99	3.31
AC	0.38	0.63	0.63	0.75	0.75	0.87
AD	0.31	0.44	0.44	0.44	0.44	0.50
AE	8-32	1/4 - 20	1/4 - 20	3/8 - 16	3/8 - 16	3/8 - 16
AF	1.56	1.76	1.76	2.88	2.88	2.88
AG	2.18	2.38	2.38	3.50	3.50	3.50
Effective Piston Area (sq. in.)* - - See * statment for right						
Extend	0.20	0.60	1.00	1.77	3.14	4.91
Retract	0.15	0.40	0.80	1.46	2.83	4.47
Air Usage (cu. in.) Per complete cycle	0.25	0.80	1.50	5.00	9.00	14.00

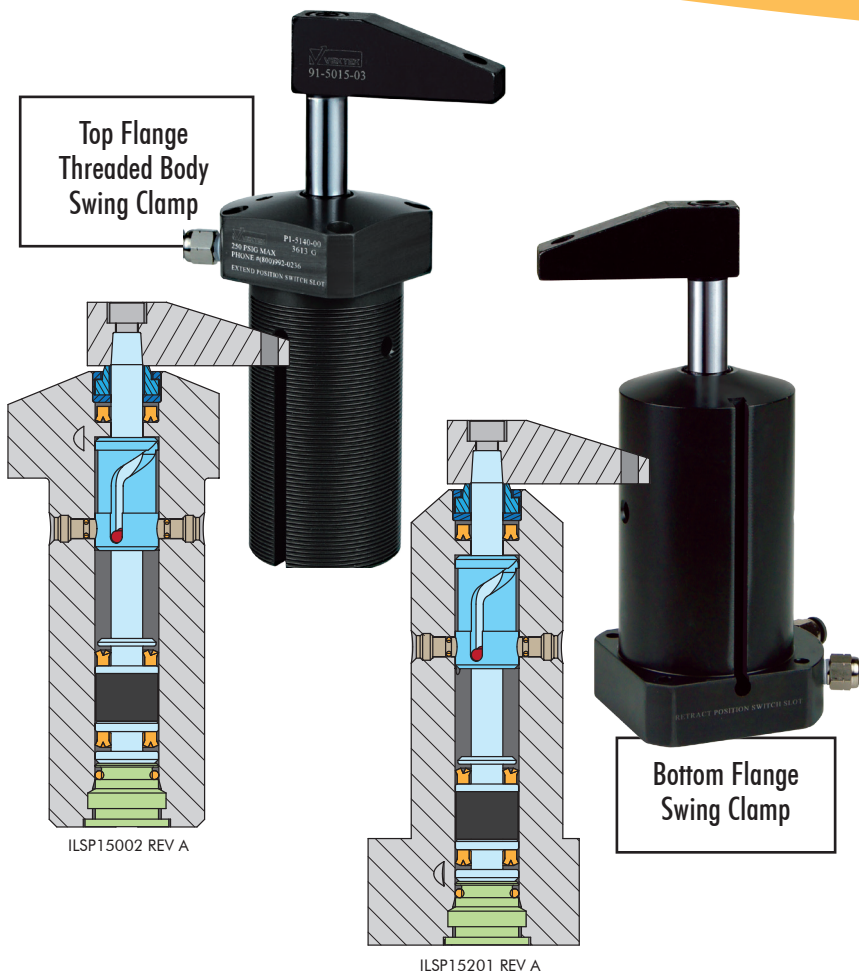
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Swing Clamps

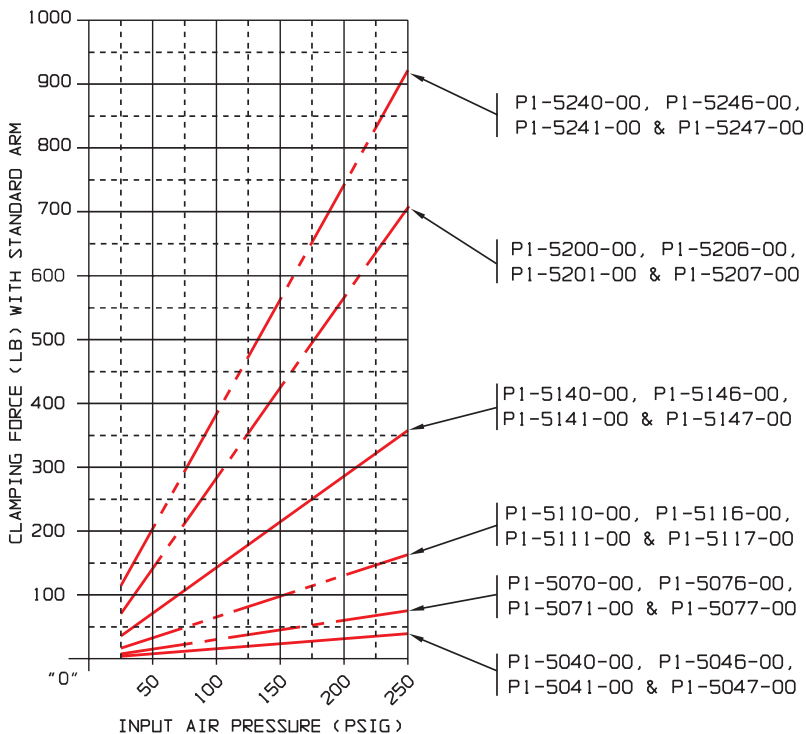
Standard Features

B-2



- Arms swing 90°.
- Our cap screw arm design is available. You may modify our arm, or we have provided you with dimensions to make your own.
- Special wipers and swept-line cylinder tops help keep chips from packing and coolant contaminants from entering the swing clamp.
- Swing clamp bodies are wrought aluminum alloy with PHC™ (Pneumatic Hardcoat) coating on all external and internal surfaces. This gives the clamps extended life.
- Plungers are carbon steel with hard chrome plating. The guide bushings are hardened alloy steel.
- All dynamic seals are internally lubricated and made from a specially compounded elastomer to promote smooth break away and low operational drag.
- Six bore sizes are available in two mounting styles to best adapt to your application.
- All models are available in straight pull and left or right swings.
- Magnetic pistons are standard on all models, allowing you to use position-indicating sensors.
- Position sensors mount within the clamp's space envelope so sensor usage doesn't encroach on the clamp's mounting envelope.
- Position sensors have an LED indicator to reduce setup time.
- All swing clamps have internal orifices to prevent cam damage caused from over accelerating the clamp.
- VektorAir™ clamps are double acting to reduce mounting envelope and prevent non-return and slow return problems inherent with single acting clamps.
- To determine whether a straight pull, left or right swing should be specified, imagine viewing the arm from above during the clamping stroke. Arms moving clockwise are right hand swings, counter-clockwise are left hand swings.

Product Clamping Forces



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