

Rotating Air and Hydraulic Cylinders

The New Generation



A fresh new approach utilizing the latest
in Rotating Cylinder Technology.

 **Speedgrip**
Chuck, Inc.

CHUCK
SPEEDGRIP

Speedgrip Chuck introduces...

The New Generation

of rotating air and hydraulic cylinders.

Features:

- High speed rotation up to 7000 RPMs
- Higher operating pressure up to 1000 PSI (hyd)
- Directly interchangeable with most existing cylinder models
- Enhanced reliability with accompanying limited warranty.

Options:

- Third post for fluid distribution
- Tail rod
- Safety check valves
- Proximity switches/trip dogs
- Special stroke lengths
- Special piston rods



Service available for most competitors' models

The *New Generation* of rotating cylinders is built to the highest quality standards with expanded service for complete customer satisfaction.

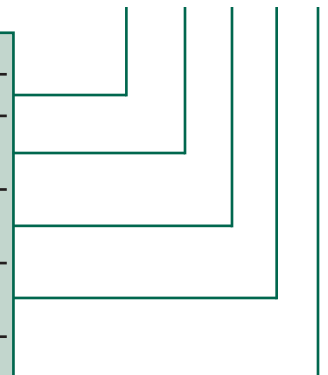
MODEL DESIGNATION

(ordering example)
SG 4-1/2 A W P B

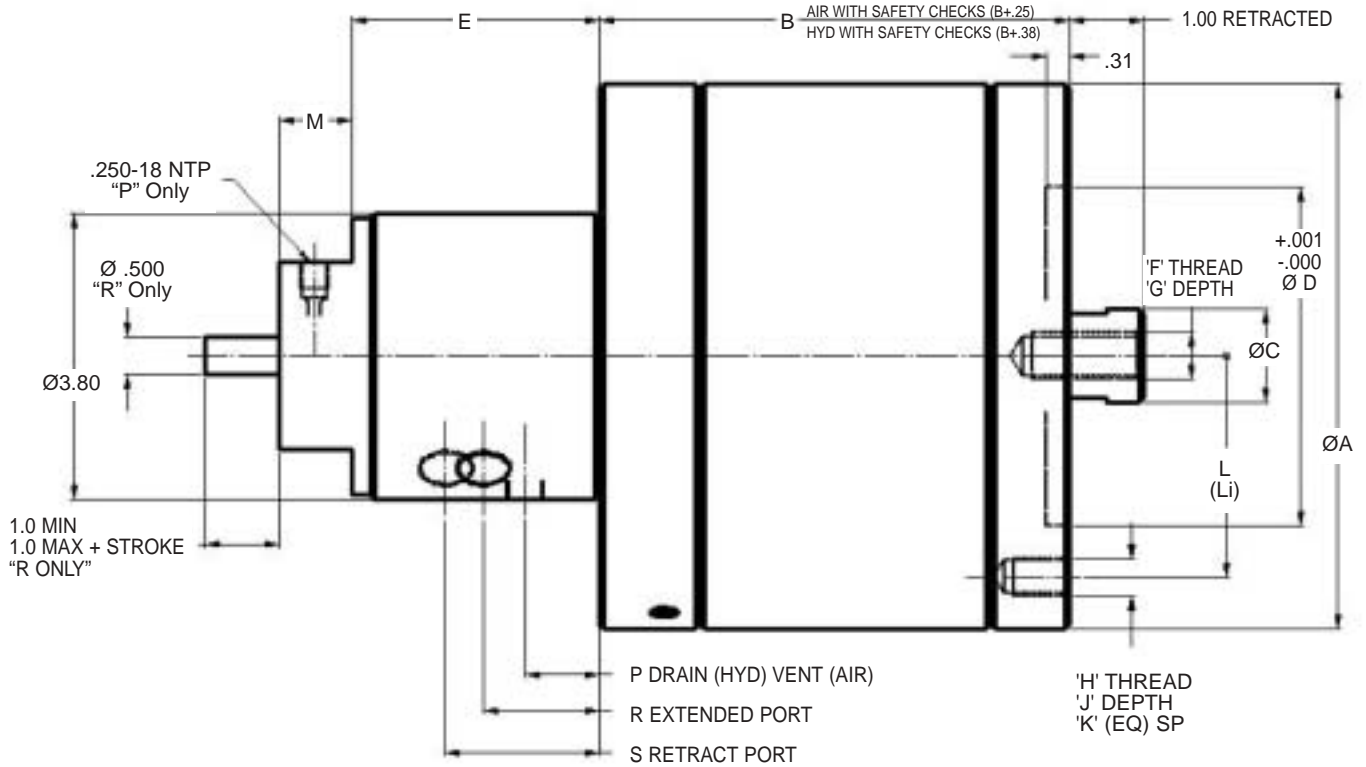
Develop model number by selecting the symbols that represent the cylinder with the features and options required.

Place them in the sequence as shown.

Feature	Description	Symbol
Bore	Specify in inches	
Style	Air	A
	Hydraulic	H
Safety Checks	With	W
	Without	O
Options	Third Porting	P
	Tail Rod	R
	Proximity Brackets <small>(available with third port and tail rod models only)</small>	B



SPEEDGRIP CHUCK AIR AND HYDRAULIC ROTATING CYLINDERS



	Ø BORE (in)	DIMENSIONAL DATA																
		A	B	C	D	E				F	G	H	J	K	L	Li	M	
						"O" MODEL	"W" MODEL	"P" MODEL	"R" MODEL								"P" MODEL	"R" MODEL
HYDRAULIC	*3	5.75	9.25	1.00	3.000	2.91	2.91	3.09	3.03	.750-16	1.80	.500-13	1.0	4	3.750	n/a	1.23	.63
	4-1/2	5.75	9.25	1.25	3.000	2.91	2.91	3.09	3.03	.750-16	1.80	.500-13	1.0	4	3.750	n/a	1.23	.63
	6	7.40	9.76	1.50	4.500	2.91	2.91	3.09	3.03	1.000-14	2.00	.500-13	1.0	4	5.500	n/a	1.23	.63
	8	9.40	9.76	1.75	4.500	2.91	2.91	3.09	3.03	1.250-12	2.30	.500-13	1.0	8	5.500	n/a	1.23	.63
	10	11.40	9.76	2.0	6.000	2.91	2.91	3.09	3.03	1.500-14	2.30	.625-11	1.1	8	9.500	n/a	1.23	.63
AIR	*3	4.60	8.33	1.00	3.000	2.91	2.91	3.09	3.03	.750-16	1.75	.375-16	.75	4	3.750	n/a	1.23	.63
	4-1/2	5.80	8.33	1.00	3.000	2.91	2.91	3.09	3.03	.750-16	1.75	.375-16	.75	4	3.750	n/a	1.23	.63
	6	7.40	8.83	1.25	4.500	2.91	2.91	3.09	3.03	.750-16	1.75	.500-13	1.00	4	5.500	n/a	1.23	.63
	8	9.60	8.83	1.25	4.500	2.91	2.91	3.09	3.03	.750-16	1.75	.500-13	1.00	4	5.500	n/a	1.23	.63
	10	11.60	8.83	1.50	6.000	2.91	2.91	3.09	3.03	1.000-14	2.00	.625-11	1.00	6	7.000	9.500	1.23	.63
	12	13.50	8.83	1.50	6.000	2.91	2.91	3.09	3.03	1.000-14	2.00	.625-18	1.12	6	7.000	9.500	1.23	.63

	Ø BORE (in)	DIMENSIONAL DATA			PORTING DATA			RETRACTED AREA (sq in)	EXTENDED AREA (sq in)	SPEED (rpm)	PRESSURE (psi)	STROKE (in)
		P	R	S	EXTEND PORT	RETRACT PORT	DRAIN VENT PORT					
HYDRAULIC	*3	1.56	1.56	2.09	SAE #10	SAE #10	SAE #6	6.1	6.8	7,000	1,000	1.0
	4-1/2	1.56	1.56	2.09	SAE #10	SAE #10	SAE #6	14.3	15.5	7,000	1,000	1.5
	6	1.56	1.56	2.09	SAE #10	SAE #10	SAE #6	25.9	27.7	7,000	1,000	2.0
	8	1.56	1.56	2.09	SAE #10	SAE #10	SAE #6	47.3	49.6	7,000	1,000	2.0
	10	1.56	1.56	2.09	SAE #10	SAE #10	SAE #6	74.8	77.9	7,000	1,000	2.0
AIR	*3	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	6.3	7.1	7,000	150	1.0
	4-1/2	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	15.1	15.9	7,000	150	1.0
	6	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	27.0	28.3	7,000	150	1.5
	8	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	49.0	50.3	7,000	150	1.5
	10	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	76.8	78.5	7,000	150	1.5
	12	.63	1.13	1.69	.375-18 NPTF	.375-18 NPTF	.375-18 NPTF	111.3	113.1	7,000	150	1.5

*Safety checks not available for 3" models.

Since 1947 Speedgrip has approached every new holding problem with an eager and open-minded attitude. As we sought solutions, we learned. In the catalogs shown here, we have featured a wide variety of workholding solutions.

Engineering Workholding

Mechanisms: Whether your parts require workholding for high volume production or they are just special enough that the standard chuck will not work, Speedgrip's sales and engineering departments have the experience to provide you with the solutions to your workholding applications.

Standard Chucking Mechanisms:

Speedgrip manufactures a full line of standard I.D. Collet Chucks and Locators for manual or drawbar actuation, and Between Center Mandrels. Also available are various Single Taper, Double Taper and Reverse Taper Collets.

Cameron Hydraulic Expanding

Chucks: The Cameron Company produces a precision line of workholding Chucks and Arbors based on a unique method of metal flexing. This principal assures extended tool life, greatly improved concentricity and tremendous gripping strength.

Sabertooth Expanding Mandrels:

Another speciality product of the Cameron Company, Sabertooth provides mechanical sleeve style Expanding Mandrels for parts that require gripping force over the full length of the part.

Madison Face Drivers:

Madison Face Driver, builds a full line of Elastomer, Hydraulic and Quick Change type Face Drivers for complete O.D. Machining in One Clamping.



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AND OTHER CATALOGS**

Check out our Web Site
www.speedgrip.com