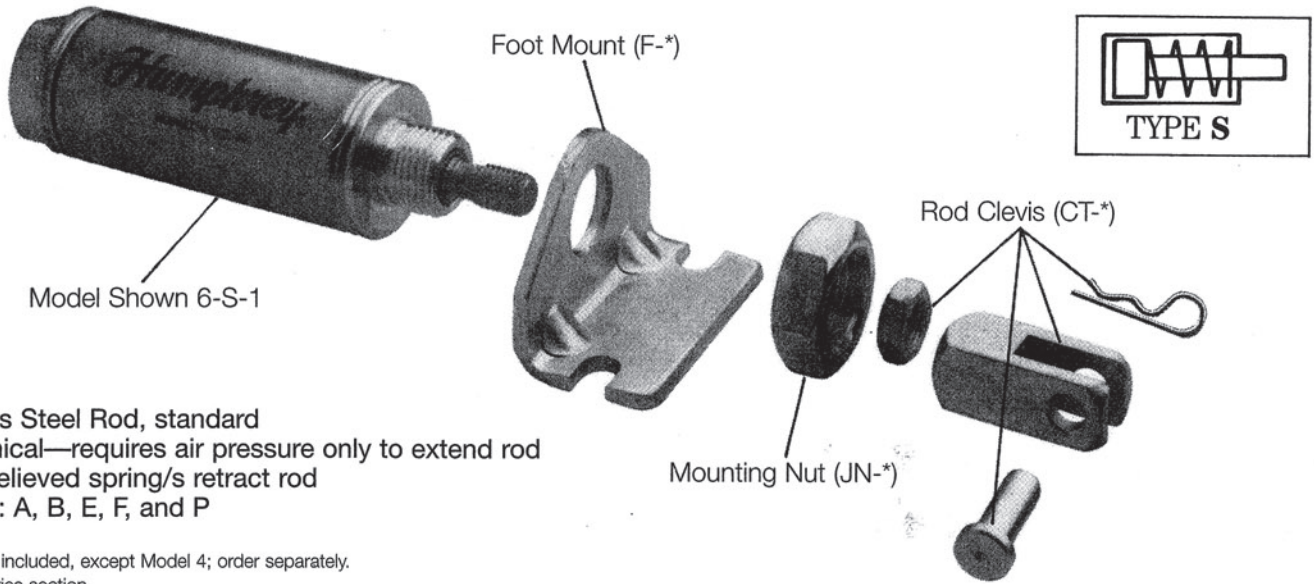


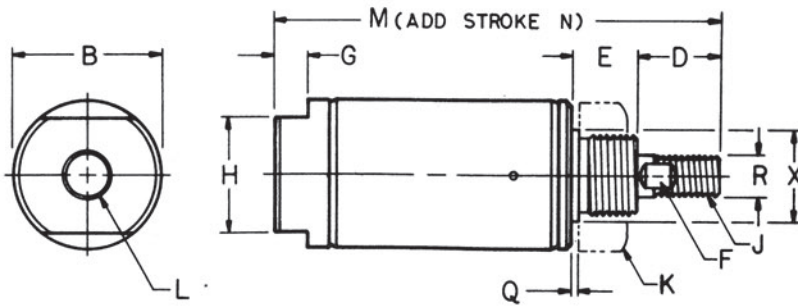
SINGLE ACTING/NOSE MOUNT

# HUMPHREY AIR CYLINDERS



- Stainless Steel Rod, standard
- Economical—requires air pressure only to extend rod
- Stress relieved spring/s retract rod
- Options: A, B, E, F, and P

Mounting nut included, except Model 4; order separately.  
 \*See Accessories section.



• No rod bushing, Model 8... front head is hard anodized.

Medium..... Compressed Air  
 Pressure range ..... 0-200 PSIG  
 Temperature range ..... -40°F to 160°F Ambient\*  
 w/Fluoroelastomer..... -20°F to 400°F Ambient\*

Recommended maximum stroke ..... .6"

\*Additional heat may be generated by seal friction (high speed cycling)

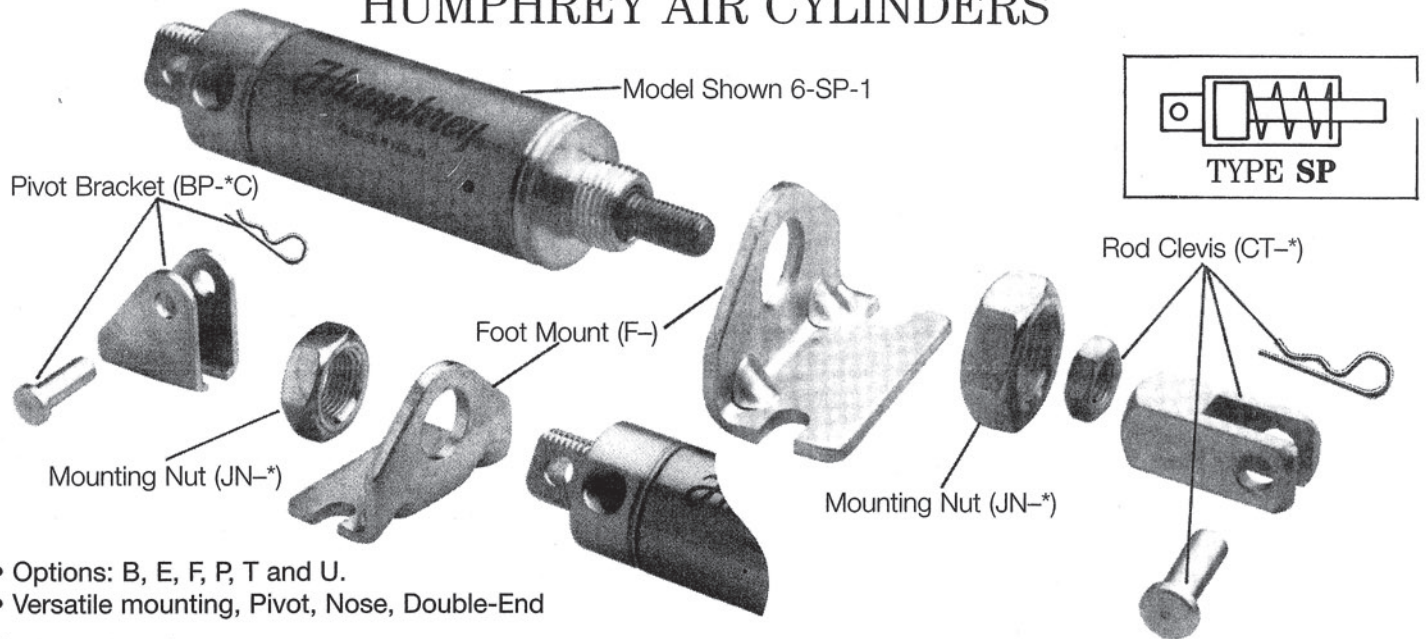
BASIC MODEL NO.	Piston Area SQ. IN.† Volume CU. IN. (per inch of stroke)	Spring Tension Pounds	
		Free	Comp.
8	.20	1	2
7	.44	1.5	5
6	.89	4	8
25	1.23	7	14
5	1.77	6	12
75	2.41	12	24
4	3.14	15	30

†Area x PSIG = Approximate Force

MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Exten.	E Nose Length	F Wrench Flat	G Flat	H Flat	J Rod Thread x Length	K Nose Thread	L Port (NPSF)	M Length	N			Q Pilot	R Rod Dia.	X Pilot Dia. -.001 -.006
												For each stroke increment of:	Add to M	For remaining stroke increment. Add to in. plus remaining stroke			
8-S-□	1/2	.56	.50	.31	None	.12	.37	10-32 x .50	3/8-24	10-32 UNF	1.81	1/2"	.94	.44	.04	.187	.375
7-S-□	3/4	.81	.50	.44	None	.16	.62	1/4-28 x .50	1/2-20	1/8	2.00	1"	1.69	.69	.07	.250	.500
6-S-□	1 1/16	1.12	.62	.50	.25	.25	.87	5/16-24 x .50	5/8-18	1/8	2.56	1"	1.56	.56	.07	.312	.625
25-S-□	1 1/4	1.31	1.00	.62	.38	.18	.87	7/16-20 x .75	3/4-16	1/8	3.41	1"	1.81	.81	.07	.437	.750
5-S-□	1 1/2	1.55	1.00	.62	.38	.25	.87	7/16-20 x .75	3/4-16	1/8	3.19	1"	1.69	.69	.07	.437	.750
75-S-□	1 3/4	1.81	1.19	.75	.44	.25	1.25	1/2-20 x .88	1-14	1/4	3.85	1"	2.00	1.00	.09	.500	1.030
4-S-□	2	2.07	1.25	.81	.50	.31	1.25	1/2-20 x .88	1 1/4-12	1/4	4.17	1"	2.00	1.00	.12	.625	1.375

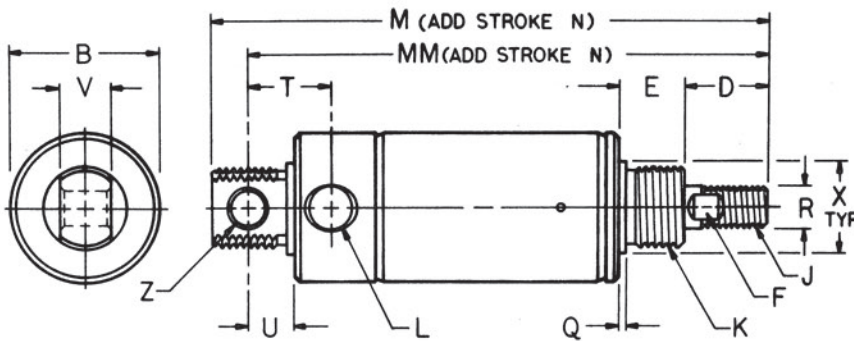
SINGLE ACTING/PIVOT MOUNT or DOUBLE-END MOUNT

# HUMPHREY AIR CYLINDERS



- Options: B, E, F, P, T and U.
- Versatile mounting, Pivot, Nose, Double-End

\*See Accessories section.



• No rod bushing, Model 8... front head is hard anodized. Model 4 has rear pivot bushing.

Medium..... Compressed Air  
 Pressure range ..... 0-200 PSIG  
 Temperature range ..... -40°F to 160°F Ambient\*  
 w/Fluoroelastomer..... -20°F to 400°F Ambient\*

Recommended maximum stroke ..... .6"

\*Additional heat may be generated by seal friction (high speed cycling)

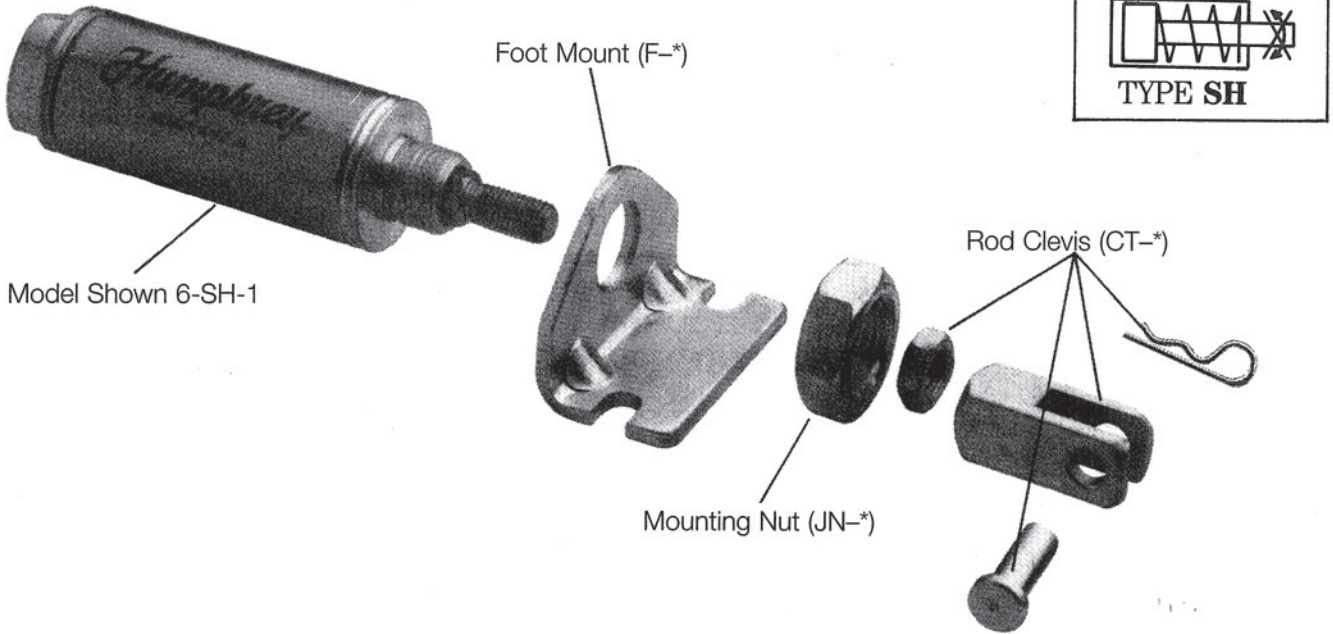
BASIC MODEL NO.	Piston Area SQ. IN.† Volume CU. IN. (per inch of stroke)	Spring Tension Pounds	
		Free	Comp.
8	.20	1	2
7	.44	1.5	5
6	.89	4	8
25	1.23	7	14
5	1.77	6	12
75	2.41	12	24
4	3.14	15	30

†Area x PSIG = Approximate Force

MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Exten.	E Nose Length	F Wrench Flat	J Rod Thread x Length	K Nose Thread (Pivot Thread)	L Port (NPSF)	M Length	MM Length	N		Q Pilot	R Rod Dia.	T	U	V	X Pil. Dia. -.001 -.006 Front (Rear)	Z Pivot Hole Dia.	
											For each stroke increment of:	Add to M & MM For remaining stroke increment. Add to M, plus remaining stroke								
8-SP-□	1/2	.62	.50	.31	None	10-32 x .50	3/8-24 (7/16-20)	10-32 UNF	2.50	2.25	1/2"	.94	.44	.04	.187	.42	.25	.31	.375 (.437)	.16
7-SP-□	3/4	.81	.50	.44	None	1/4-28 x .50	1/2-20 (5/8-18)	1/8	3.06	2.77	1"	1.69	.69	.07	.250	.66	.34	.38	.500 (.625)	.25
6-SP-□	1 1/16	1.12	.62	.50	.25	5/16-24 x .50	5/8-18 TYP.	1/8	3.44	3.16	1"	1.56	.56	.07	.312	.62	.34	.38	.625	.25
25-SP-□	1 1/4	1.31	1.00	.62	.38	7/16-20 x .75	3/4-16 TYP.	1/8	4.50	4.14	1"	1.81	.81	.07	.437	.91	.41	.50	.750	.25
5-SP-□	1 1/2	1.55	1.00	.62	.38	7/16-20 x .75	3/4-16 TYP.	1/8	4.25	3.88	1"	1.69	.69	.07	.437	.81	.50	.62	.750	.38
75-SP-□	1 3/4	1.81	1.19	.75	.44	1/2-20 x .88	1-14 TYP.	1/4	5.41	4.91	1"	2.00	1.00	.09	.500	.98	.50	.62	1.030	.38
4-SP-□	2	2.07	1.25	.81	.50	1/2-20 x .88	1 1/4-12 TYP.	1/4	5.54	5.11	1"	2.00	1.00	.12	.625	1.0	.57	.75	1.375	.38†

SINGLE ACTING NON-ROTATING ROD/NOSE MOUNT

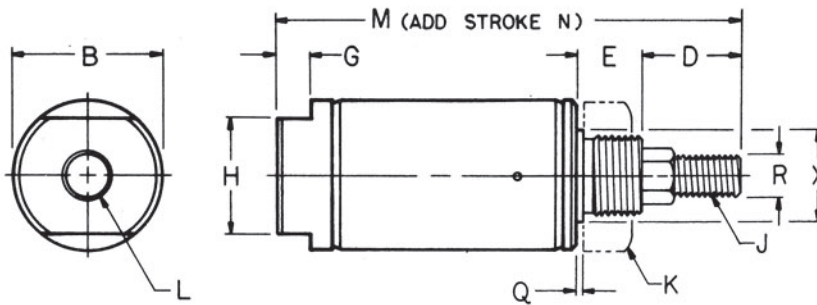
HUMPHREY AIR CYLINDERS



- Stainless Steel Rod, standard
- Non-rotating hex rod — no special guides required
- Requires air pressure only to extend rod

- Stress relieved spring/s retract rod
- Options: A, B, E, F and P

\*See Accessories section.



• No rod bushing, Type SH... front head hard anodized

Medium..... Compressed Air  
 Pressure range ..... 0-200 PSIG  
 Temperature range ..... -40°F to 160°F Ambient\*  
 w/Fluoroelastomer..... -20°F to 400°F Ambient\*

Recommended maximum stroke ..... .6"

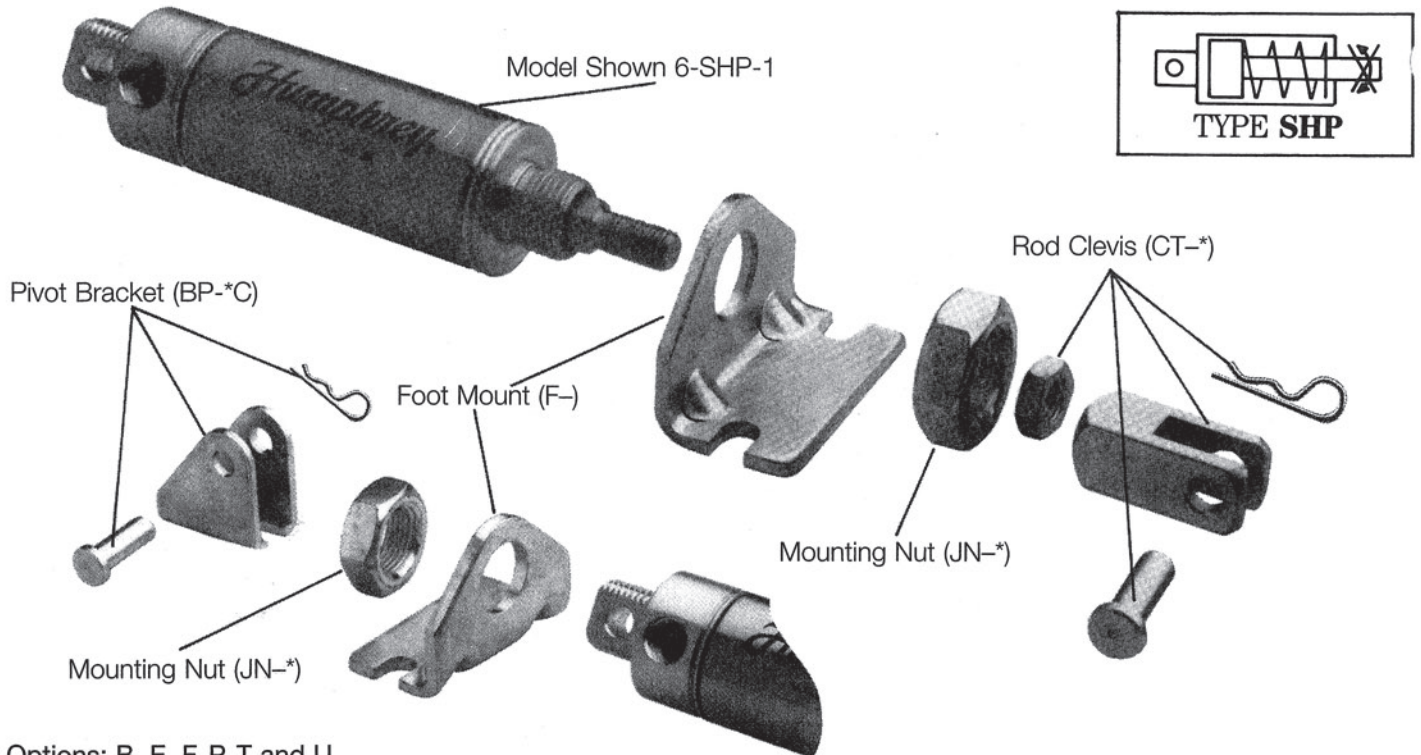
\*Additional heat may be generated by seal friction (high speed cycling)

BASIC MODEL NO.	Piston Area SQ. IN.† Volume CU. IN. (per inch of stroke)	Spring Tension Pounds	
		Free	Comp.
8	.20	1	2
7	.44	1.5	5
6	.89	4	8
5	1.77	6	12

†Area x PSIG = Approximate Force

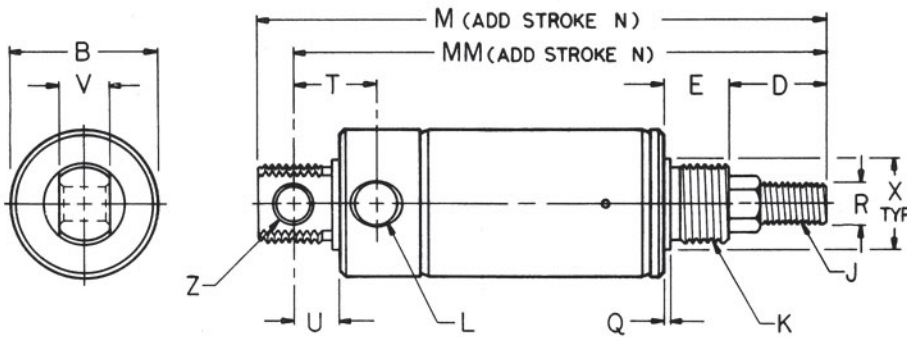
MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Exten.	E Nose Flat	G Flat	H Flat	J Rod Thread x Length	K Nose Thread	L Port (NPSF)	M Length	N			Q Pilot	R Rod Dia.	X Pilot Dia. -.001 -.006
											For each stroke increment of:	Add to M	For remaining stroke increment, Add to M, plus remaining stroke			
8-SH-□	1/2	.56	.75	.31	.12	.37	10-32 x .50	3/8-24	10-32 UNF	2.06	1/2"	.94	.44	.04	.187	.375
7-SH-□	3/4	.81	.75	.44	.16	.62	1/4-28 x .50	1/2-20	1/8	2.25	1"	1.69	.69	.07	.250	.500
6-SH-□	1 1/16	1.12	.75	.50	.25	.87	5/16-24 x .50	5/8-18	1/8	2.68	1"	1.56	.56	.07	.375	.625
5-SH-□	1 1/2	1.55	1.25	.62	.25	.87	7/16-20 x 1.0	3/4-16	1/8	3.44	1"	1.69	.69	.07	.437	.750

# HUMPHREY AIR CYLINDERS



- Options: B, E, F, P, T and U.
- Versatile mounting, Pivot, Nose, Double-End

\*See Accessories section.



• No rod bushing, Type SHP...front hard anodized

Medium..... Compressed Air  
 Pressure range ..... 0-200 PSIG  
 Temperature range ..... -40°F to 160°F Ambient\*  
 w/Fluoroelastomer..... -20°F to 400°F Ambient\*

Recommended maximum stroke ..... .6"

\*Additional heat may be generated by seal friction (high speed cycling)

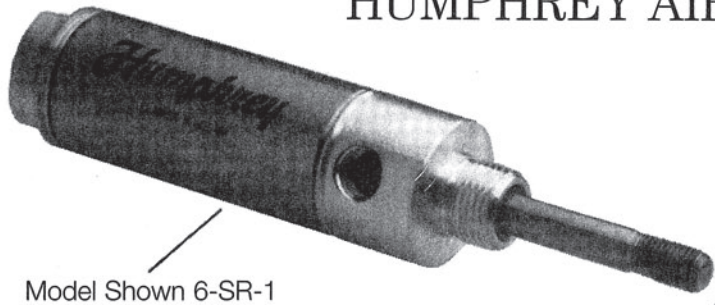
BASIC MODEL NO.	Piston Area SQ. IN.†		Spring Tension Pounds	
	Volume CU. IN. (per inch of stroke)		Free	Comp.
8	.20		1	2
7	.44		1.5	5
6	.89		4	8
5	1.77		6	12

†Area x PSIG = Approximate Force

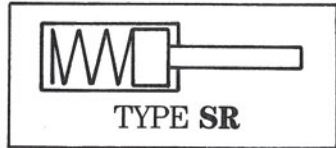
MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Exten.	E Nose Flat	J Rod Thread x Length	K Nose Thread (Pivot Thread)	L Port (NPSF)	M Length	MM Length	N		Q Pilot	R Hex Flats	T	U	V	X Pil. Dia. -.001 Front (.437) -.006 Rear	Z Pivot Hole Dia.	
										For each stroke increment	Add to M & MM For remaining stroke increment, Add to M, plus remaining stroke								
8-SHP-□	1/2	.56	.75	.31	10-32 x .50	3/8-24	10-32 UNF	2.75	2.50	1/2"	.94	.44	.04	.187	.42	.25	.31	.375 (.437)	.16
7-SHP-□	3/4	.81	.75	.44	1/4-28 x .50	1/2-20 (5/8-18)	1/8	3.31	3.02	1"	1.69	.69	.07	.250	.66	.34	.38	.500 (.625)	.25
6-SHP-□	1 1/16	1.12	.75	.50	5/16-24 x .50	5/8-18	1/8	3.56	3.28	1"	1.56	.56	.07	.375	.62	.34	.38	.625	.25
5-SHP-□	1 1/2	1.55	1.25	.62	7/16-20 x 1.0	3/4-16	1/8	4.50	4.13	1"	1.69	.69	.07	.437	.81	.50	.62	.750	.38

SINGLE ACTING REVERSE/NOSE MOUNT

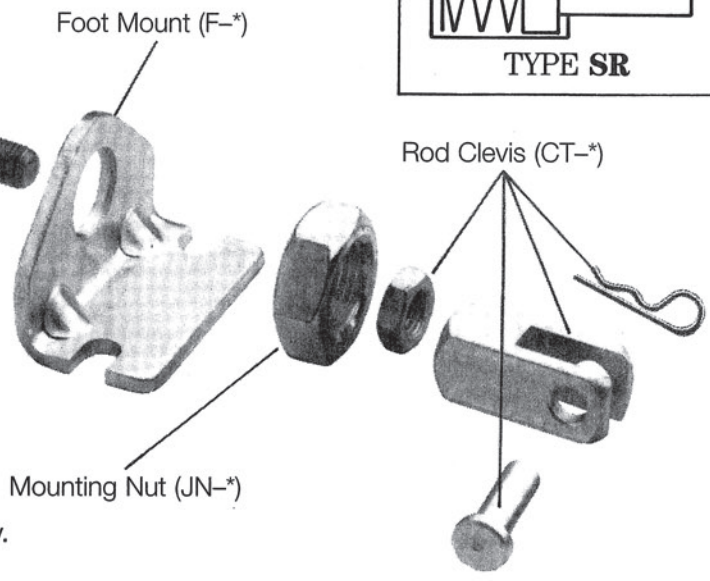
# HUMPHREY AIR CYLINDERS



Model Shown 6-SR-1

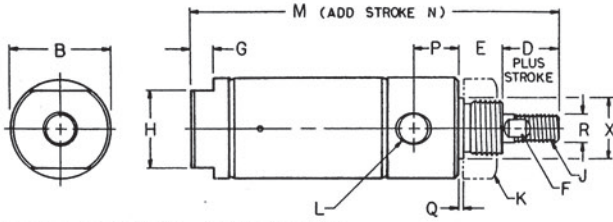


TYPE SR



- Stainless Steel Rod, standard
- Requires air pressure to retract rod
- Stress relieved spring/s extend rod
- Options: A, B, E, F, J, K, L, N, P, W
- Wearstrip standard: 3 inches or more of stroke (optional, shorter strokes)
- Mounting nut included, except Model 4, order separately.

\*See Accessories section.



Medium..... Compressed Air  
 Pressure range ..... 0-200 PSIG  
 Temperature range ..... -40°F to 160°F Ambient\*  
 w/Fluoroelastomer..... -20°F to 400°F Ambient\*  
 Recommended maximum stroke ..... 4"  
 \*Additional heat may be generated by seal friction (high speed cycling)

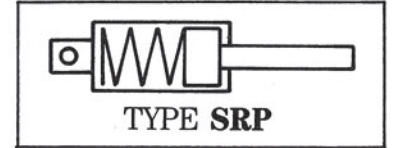
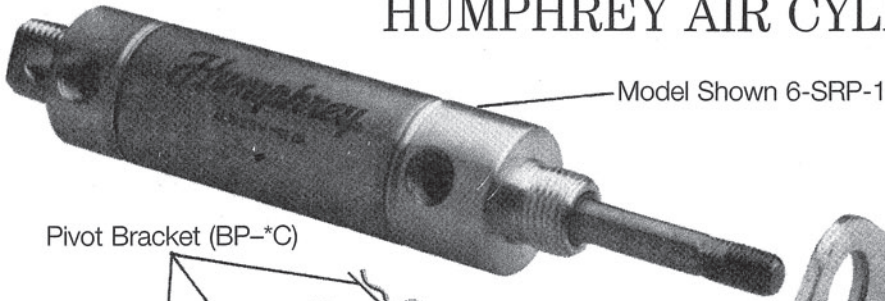
BASIC MODEL NO.	Piston Area SQ. IN.† Volume CU. IN. (per inch of stroke)	Spring Tension Pounds	
		Free	Comp.
8	.17	1	4
7	.39	1.5	7.5
6	.81	4	12
25	1.08	7	21
5	1.62	6	18
75	2.21	12	36
4	2.84	15	42

†Area x PSIG = Approximate Force

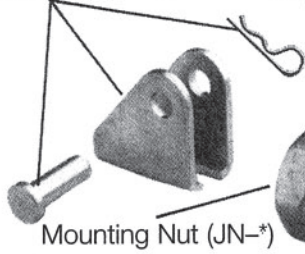
• No rod bushing, Model 8... front hard anodized

MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Re-tracted	E Nose Length	F Wrench Flat	G Flat	H Flat	J Rod Thread x Length	K Nose Thread	L Port (NPSF)	M Length (w/rod extended)	N			P	Q	R Rod Dia.	X Pilot Dia. -.001 -.006
												For each stroke increment of:	Add to M	For remaining stroke increment. Add to M plus remaining stroke				
8-SR-□	1/2	.62	.50	.41	None	.12	.37	10-32 x .50	7/16-20	10-32 UNF	2.42	1/2"	1.44	.94	.37	.04	.187	.437
7-SR-□	3/4	.88	.50	.50	None	.16	.62	1/4-28 x .50	5/8-18	1/8	2.78	1"	2.69	1.69	.48	.07	.250	.625
6-SR-□	1 1/16	1.12	.62	.50	.25	.25	.87	5/16-24 x .50	5/8-18	1/8	3.28	1"	2.56	1.56	.52	.07	.312	.625
25-SR-□	1 1/4	1.31	1.00	.62	.38	.18	.87	7/16-20 x .75	3/4-16	1/8	4.25	1"	2.81	1.81	.63	.07	.437	.750
5-SR-□	1 1/2	1.55	1.00	.62	.38	.25	.87	7/16-20 x .75	3/4-16	1/8	4.00	1"	2.69	1.69	.62	.07	.437	.750
75-SR-□	1 3/4	1.81	1.19	.75	.44	.25	1.25	1/2-20 x .88	1-14	1/4	5.03	1"	3.00	2.00	.72	.09	.500	1.030
4-SR-□	2	2.07	1.25	.81	.50	.31	1.25	1/2-20 x .88	1 1/4-12	1/4	5.11	1"	3.00	2.00	.69	.12	.625	1.375

# HUMPHREY AIR CYLINDERS

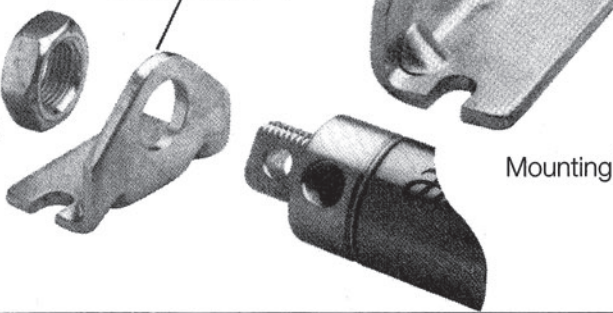


Pivot Bracket (BP-\*C)



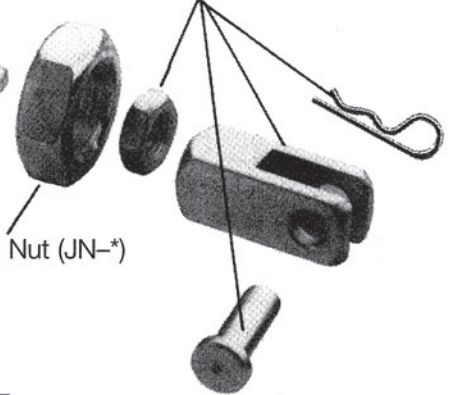
Mounting Nut (JN-\*)

Foot Mount (F-)



Mounting Nut (JN-\*)

Rod Clevis (CT-\*)



- Options: B, E, F, J, K, L, N, P, R, T, W, U.
- Versatile mounting, Pivot, Nose, Double-End

\*See Accessories section.

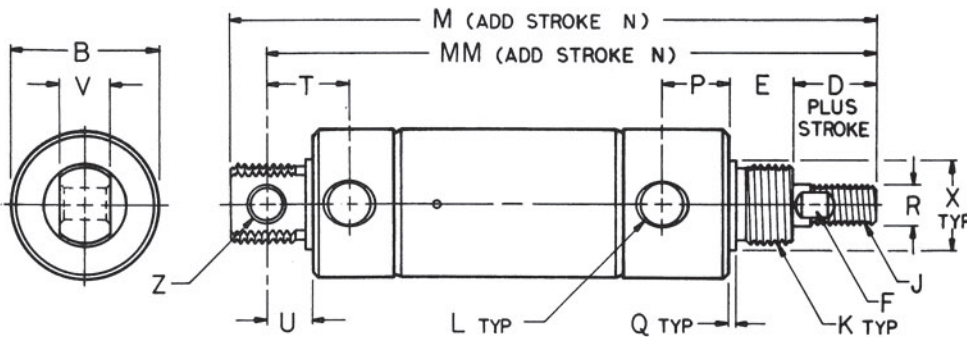
Medium Compressed Air  
 Pressure range 0-200 PSIG  
 Temperature range -40°F to 160°F Ambient\*  
 w/Fluoroelastomer -20°F to 400°F Ambient\*

Recommended maximum stroke . . . . .4"

\*Additional heat may be generated by seal friction (high speed cycling)

BASIC MODEL NO.	Piston Area SQ. IN.† Volume CU. IN. (per inch of stroke)	Spring Tension Pounds	
		Free	Comp.
8	.17	1	4
7	.39	1.5	7.5
6	.81	4	12
25	1.08	7	21
5	1.62	6	18
75	2.21	12	36
4	2.84	15	42

†Area x PSIG = Approximate Force



• No rod bushing, Model 8 . . . front head is hard anodized. Model 4 has rear pivot bushing.

MODEL & TYPE (Stroke)	BORE	B Dia.	D Rod Retr.	E Nose Length	F Wrench Flat	J Rod Thread x Length	K Nose & Pivot Thread	L Port (NPSF)	M Length (w/rod extended)	MM Length (w/rod extended)	N		P	Q Pilot	R Rod Dia.	T	U	V	X Pil. Dia. -.001 -.005	Z Pivot Hole Dia.	
											For each stroke increment of:	Add to M & MM									
8-SRP-□	1/2	.62	.50	.41	None	10-32 x .50	7/16-20	10-32 UNF	3.12	2.88	1/2"	1.44	.94	.37	.04	.187	.42	.25	.31	.437	.16
7-SRP-□	3/4	.88	.50	.50	None	1/4-28 x .50	5/8-18	1/8	3.84	3.55	1"	2.69	1.69	.48	.07	.250	.66	.34	.38	.625	.25
6-SRP-□	1 1/16	1.12	.62	.50	.25	5/16-24 x .50	5/8-18	1/8	4.15	3.87	1"	2.56	1.56	.52	.07	.312	.62	.34	.38	.625	.25
25-SRP-□	1 1/4	1.31	1.00	.62	.38	7/16-20 x .75	3/4-16	1/8	5.33	4.97	1"	2.81	1.81	.63	.07	.437	.91	.41	.50	.750	.25
5-SRP-□	1 1/2	1.55	1.00	.62	.38	7/16-20 x .75	3/4-16	1/8	5.06	4.69	1"	2.69	1.69	.62	.07	.437	.81	.50	.62	.750	.38
75-SRP-□	1 3/4	1.81	1.19	.75	.44	1/2-20 x .88	1-14	1/4	6.59	6.09	1"	3.00	2.00	.72	.09	.500	.98	.50	.62	1.030	.38
4-SRP-□	2	2.07	1.25	.81	.50	1/2-20 x .88	1 1/4-12	1/4	6.48	6.05	1"	3.00	2.00	.69	.12	.625	1.0	.57	.75	1.375	.38