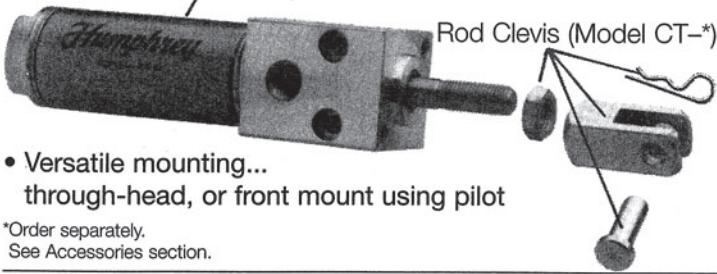


# SINGLE ACTING AND SINGLE ACTING REVERSE/BLOCK FRONT MOUNT

Model Shown 6-BFS-1

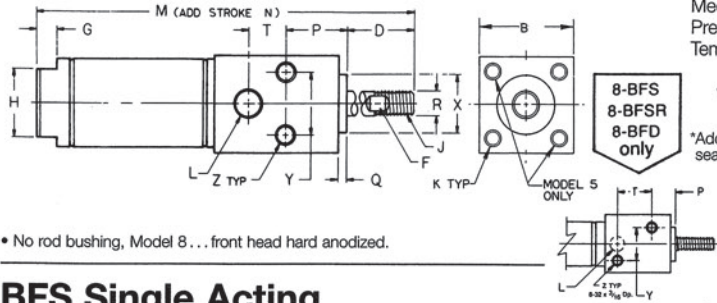
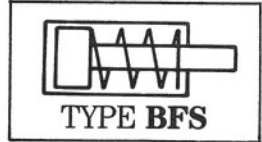
## HUMPHREY AIR CYLINDERS



- Versatile mounting... through-head, or front mount using pilot

\*Order separately. See Accessories section.

- Stainless Steel Rod, standard
- Wearstrip standard BFSRs with stroke  $\geq 39$  (N/A. on model 8)
- Options: A, B, E, F, J, K, L, P



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

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

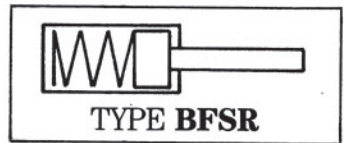
BASIC MODEL NO.	Piston Area SQ. IN.†		Spring Tension Pounds	
	Volume CU. IN. (per inch of stroke)		Free	Comp.
8-BFS	.20		1	2
7-BFS	.44		1.5	5
6-BFS	.89		4	8
5-BFS	1.77		6	12
8-BFSR	.17		1	4
7-BFSR	.39		1.5	7.5
6-BFSR	.81		4	12
5-BFSR	1.62		6	18

†Area x PSIG = Approximate Force

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

### BFS Single Acting

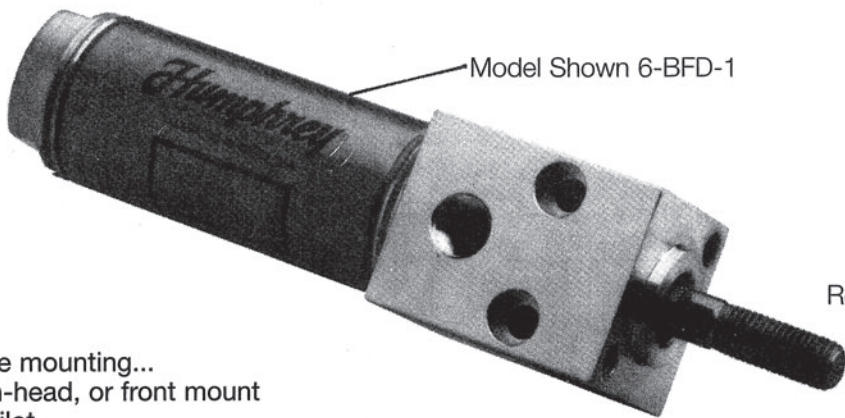
MODEL & TYPE (Stroke)	BORE	B Square	D Rod Exten.	F Wrench Flat	G Flat	H Flat	J Rod Thread x Length	K Mounting Holes	L Port (NPSF)	M Length	N			P	Q Pilot	R Rod Dia.	T	X Pilot Dia. -.001 -.006	Y	Z Mounting Holes
											For each stroke increment of:	Add to M	For remaining stroke increment. Add to M, plus remaining stroke							
8-BFS-□	1/2	.75	.50	None	.12	.37	10-32 x .50	Two #8-32 holes on .75 diameter bolt circle	10-32 UNF	2.42	1/2"	.94	.44	.31	.06	.187	.44	.437	.44	Two #8-32 holes
7-BFS-□	3/4	1.00	1.06	.22	.16	.62	1/4-28 x .75	Two #10-32 holes on 1.0 diameter bolt circle	1/8	3.34	1"	1.69	.69	.48	.09	.250	.51	.625	.62	Two holes drill and c' bored for 10-32 cap screw tap 1/4-20
6-BFS-□	1 1/16	1.25	1.12	.25	.25	.87	5/16-24 x .50	Two #10-32 holes on 1.25 diameter bolt circle	1/8	4.28	1"	1.56	.56	.72	.09	.312	.54	.750	.81	Two holes drill and c' bored for 10-32 cap screw tap 1/4-20
5-BFS-□	1 1/2	1.75	1.50	.38	.25	.87	7/16-20 x 1.25	Four 1/4-20 holes on 1.75 diameter bolt circle	1/4	5.00	1"	1.69	.69	1.00	.12	.437	.66	1.000	1.12	Two holes drill and c' bored for 1/4-20 cap screw tap 5/16-18



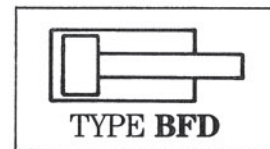
### BFSR Single Acting Reverse

MODEL & TYPE (Stroke)	BORE	B Square	D Rod Re-tracted	F Wrench Flat	G Flat	H Flat	J Rod Thread x Length	K Mounting Holes	L Port (NPSF)	M Length (w/rod extended)	N			P	Q Pilot	R Rod Dia.	T	X Pilot Dia. -.001 -.006	Y	Z Mounting Through Holes
											For each stroke increment of:	Add to M	For remaining stroke increment. Add to M, plus remaining stroke							
8-BFSR-□	1/2	.75	.50	None	.12	.37	10-32 x .50	Two #8-32 holes on .75 diameter bolt circle	10-32 UNF	2.42	1/2"	1.44	.94	.31	.06	.187	.44	.437	.44	Two #8-32 holes
7-BFSR-□	3/4	1.00	1.06	.22	.16	.62	1/4-28 x .75	Two #10-32 holes on 1.0 diameter bolt circle	1/8	3.34	1"	2.69	1.69	.48	.09	.250	.51	.625	.62	Two holes drilled and c' bored for 10-32 cap screw tap 1/4-20
6-BFSR-□	1 1/16	1.25	1.12	.25	.25	.87	5/16-24 x .50	Two #10-32 holes on 1.25 diameter bolt circle	1/8	4.28	1"	2.56	1.56	.72	.09	.312	.54	.750	.81	Two holes drilled and c' bored for 10-32 cap screw tap 1/4-20
5-BFSR-□	1 1/2	1.75	1.50	.38	.25	.87	7/16-20 x 1.25	Four 1/4-20 holes on 1.75 diameter bolt circle	1/4	5.18	1"	2.69	1.69	1.00	.12	.437	.66	1.000	1.12	Two holes drilled and c' bored for 1/4-20 cap screw tap 5/16-18

# HUMPHREY AIR CYLINDERS



Model Shown 6-BFD-1



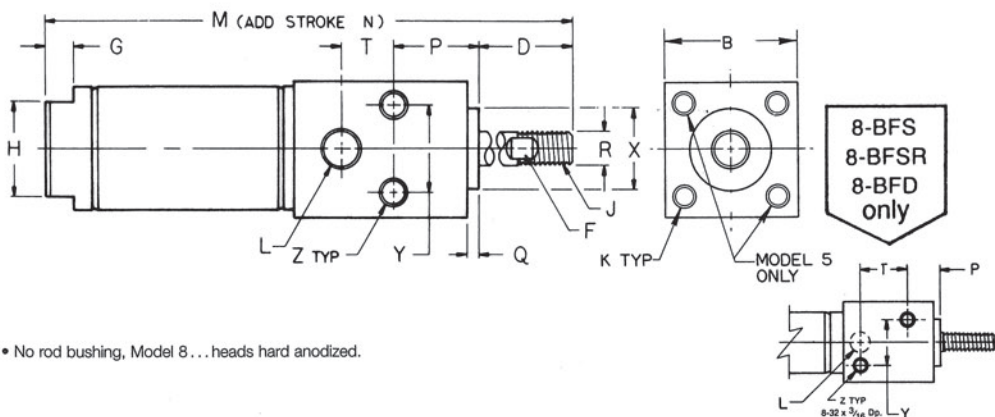
TYPE BFD

Rod Clevis (Model CT-\*)



- Versatile mounting... through-head, or front mount using pilot
- Stainless Steel Rod, standard
- Wearstrip standard (Double acting only): 5 inches or more of stroke (Optional, shorter strokes)
- Options: A, B, E, F, J, K, L, M, N, P

\*Order separately. See Accessories section.



• No rod bushing, Model 8... heads 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\*

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

Piston Area SQ. IN.†  
 Volume CU. IN. (per inch of stroke)

BASIC MODEL	Plain Side	Rod Side
8-BFD	.20	.17
7-BFD	.44	.39
6-BFD	.89	.81
5-BFD	1.77	1.62

†Area x PSIG = Approximate Force

MODEL & TYPE (Stroke)	BORE	B Square	D Rod Exten.	F Wrench Flat	G Flat	H Flat	J Rod Thread x Length	K Mounting Holes	L Port (NPSF)	M Length	N		P	Q Pilot	R Rod Dia.	T	X Pilot Dia. -.001 -.006	Y	Z Mounting Through Holes
											For each stroke increment of	Add to M							
8-BFD-□	1/2	.75	.50	None	.12	.37	10-32 x .50	Two #8-32 holes on .75 diameter bolt circle	10-32 UNF	2.62	1/2"	.50	.31	.06	.187	.44	.437	.44	Two #8-32 holes
7-BFD-□	3/4	1.00	1.06	.22	.16	.62	1/4-28 x .75	Two #10-32 holes on 1.0 diameter bolt circle	1/8	4.03	1"	1.0	.48	.09	.250	.51	.625	.62	Two holes drill and c' bored for 10-32 cap screw tap 1/4-20
6-BFD-□	1 1/16	1.25	1.12	.25	.25	.87	5/16-24 x .50	Two #10-32 holes on 1.25 diameter bolt circle	1/8	4.75	1"	1.0	.72	.09	.312	.54	.750	.81	Two holes drill and c' bored for 10-32 cap screw tap 1/4-20
5-BFD-□	1 1/2	1.75	1.50	.38	.25	.87	7/16-20 x 1.25	Four 1/4-20 holes on 1.75 diameter bolt circle	1/4	5.44	1"	1.0	1.00	.12	.437	.66	1.000	1.12	Two holes drill and c' bored for 1/4-20 cap screw tap 5/16-18