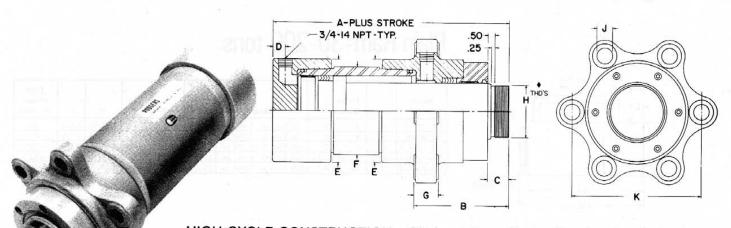
## **DOUBLE ACTING**

MINIMUM MAINTENANCE — Heavy-wall seamless steel tubing, used in the design of these cylinders, is honed to a smooth 12 - 16 micro finish to extend packing life. Task-Force double acting cylinders are designed to withstand side load and full operating pressure.

COMPLETELY FACTORY TESTED- Quality control at Rodgers is tougher than it has to be. Each Task-Force hydraulic cylinder is completely tested at rated capacity for structural soundness and leak resistance.

## THREADED DESIGN, Front Flange Mounting\* 30-600 Tons



HIGH CYCLE CONSTRUCTION - Glass reinforced nylon bearing ring in the front head packing gland and piston to allow tighter tolerances and increased life. The finest heat treated cast alloy steel heads are used front and rear. They combine with threaded design to provide maximum resistance to fatigue, side load and abuse. Chevron ("V" packing) is used throughout.

A flat ram cap included with cylinder.

These cylinders also available with rear flanges or as "plain" models. Consult Factory for details.

## LARGE RAM

Stroke	Cyl. Bore	Rod Dia.	Meximum Push Tonnage	Meximum Pull Tonnage	A	В	c	D	E	F	a	н			-		Seel Kit
14	4	31/4	50 Tons at 7958 P.S.I.		10.94	5-15/16	11/6	36	6-9/16	5 12	134	3	74	72.	_	1	19989
. 14	5	4	75 Tons at 7640 P.S.I.		11.88	6%	11/6	14		-		34	114	-	-	-	19969
14	6	5	100 Tons at 7073 P.S.I.		-	7	1	74			-		1.00	374		-	
14	6%	514	150 Tons at 9041 P.S.I.			7%		_	-					11		-	199900
14	8	6%	200 Tons at 7958 P.S.I.		-	7	_		11		174	• • •	170	-		-	199901
14	10	7%	300 Tons at 7639 P.S.I.			814	-	1.77	1274	-	2	- 6	1%	-			
14	12	71/6	400 Tons at 7073 P.S.I.				176				2%		-	-		-	
14	14	8			18.62	10%	2%	1%	19%	17%	316	7%	2%	20%	1338	29	199904
	14 14 14	Stroke   Bore   14	Stroke   Bore   Dia.   14   4   3%   14   5   4   14   6   5   14   6   5   14   8   6   6   14   10   7   7   14   12   7   7   14   14   14   15   7   7   16   16   16   16   16   16	Stroke         Bore         Dia.         Tonnage           14         4         3%         50 Tons at 7958 P.S.I.           14         5         4         75 Tons at 7640 P.S.I.           14         6         5         100 Tons at 7073 P.S.I.           14         6%         5%         150 Tons at 9041 P.S.I.           14         8         6%         200 Tons at 7958 P.S.I.           14         10         7%         300 Tons at 7639 P.S.I.           14         12         7%         400 Tons at 7073 P.S.I.	Stroke         Bore         Dla.         Tonnage         Tonnage           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I           14         5         4         75 Tons at 7640 P.S.I.         2.5 Tons @ 1000 P.S.I           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I           14         10         7½         300 Tons at 7639 P.S.I.         7 Tons @ 1000 P.S.I           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I	Stroke         Bore         Dia.         Tonnage         Tonnage         A           14         4         3¼         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I         10.94           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I         11.50           14         6         5         100 Tons at 7073 P.S.I.         4.7 Tons @ 1000 P.S.I         12.50           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I         13.00           14         8         6%         200 Tons at 7938 P.S.I.         8.5 Tons @ 1000 P.S.I         13.00           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I         16.62           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I         17.50	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         A         B         A         B         B         A         B         Tonnage         A         B         A         B         B         C         D         A         B         B         C         D         B         D         B         D         B         D         B         D         B         D         B         D         B         B         D         B         B         D         B         B         B         B         B         B         C         D         D         D         B <th< td=""><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C           14         4         3¼         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         17.50         8½         2</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         515/16         1½         ½           14         5         4         75 Tons at 7964 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½         1½           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         16.62         8½         1½         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         Tonnage         A         B         C         D         E           14         4         3¼         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7%           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8 11/16           14         6%         5½         150 Tons at 9936 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½         1½         9.5/16           14         8         6½         200 Tons at 7938 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         1½         1½         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½         1½         13%           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         16.62         <td< td=""><td>  Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F    </td><td>  Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F   G    </td><td>  Stroke   Bore   Dia,   Tonnage   Tonnage   A   B   C   D   E   F   G   H    </td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         74         6.25         1½         3¾         1½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.00         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         ½         11         10.66         2         6         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         8.25         1½         3¾         1½         9½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         1½         11/6         7.38         1½         4½         1½         1½         11         10.00         1½         1½         1½         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½         143           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         6.25         1½         3½         1½         9½         211           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I         12.50         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         267           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I         13.00         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         10.06         2         6         1½         1½         1½         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.        </td></td<></td></th<>	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C           14         4         3¼         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         17.50         8½         2	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         515/16         1½         ½           14         5         4         75 Tons at 7964 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½         1½           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         16.62         8½         1½         1½	Stroke         Bore         Dia.         Tonnage         Tonnage         Tonnage         A         B         C         D         E           14         4         3¼         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7%           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8 11/16           14         6%         5½         150 Tons at 9936 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.31         7½         1½         1½         9.5/16           14         8         6½         200 Tons at 7938 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         1½         1½         1½           14         10         7½         300 Tons at 7639 P.S.I.         17 Tons @ 1000 P.S.I.         16.62         8½         1½         1½         13%           14         12         7½         400 Tons at 7073 P.S.I.         34.5 Tons @ 1000 P.S.I.         16.62 <td< td=""><td>  Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F    </td><td>  Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F   G    </td><td>  Stroke   Bore   Dia,   Tonnage   Tonnage   A   B   C   D   E   F   G   H    </td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         74         6.25         1½         3¾         1½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.00         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         ½         11         10.66         2         6         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         8.25         1½         3¾         1½         9½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         1½         11/6         7.38         1½         4½         1½         1½         11         10.00         1½         1½         1½         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½         143           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         6.25         1½         3½         1½         9½         211           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I         12.50         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         267           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I         13.00         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         10.06         2         6         1½         1½         1½         1½</td><td>Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.        </td></td<>	Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F	Stoke   Bore   Dia.   Tonnage   Tonnage   A   B   C   D   E   F   G	Stroke   Bore   Dia,   Tonnage   Tonnage   A   B   C   D   E   F   G   H	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         74         6.25         1½         3¾         1½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         6%         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I.         13.00         7         1½         ½         8'11/16         7.38         1½         4½         1½           14         8         6½         200 Tons at 7958 P.S.I.         8.5 Tons @ 1000 P.S.I.         13.00         7         1½         ½         11         10.66         2         6         1½	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         8.25         1½         3¾         1½         9½           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I.         12.50         7         1½         ½         8'11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         11/6         7.38         1½         4½         1½         1½         1½         11/6         7.38         1½         4½         1½         1½         11         10.00         1½         1½         1½         1½	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.           14         4         3½         50 Tons at 7958 P.S.I.         2.5 Ton @ 1000 P.S.I.         10.94         5-15/16         1½         ½         6-9/16         5.12         1½         3         ½         7½         143           14         5         4         75 Tons at 7640 P.S.I.         3.5 Tons @ 1000 P.S.I.         11.88         6½         1½         ½         7½         6.25         1½         3½         1½         9½         211           14         6         5         100 Tons at 7073 P.S.I.         4.3 Tons @ 1000 P.S.I         12.50         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         267           14         6½         5½         150 Tons at 9041 P.S.I.         4.7 Tons @ 1000 P.S.I         13.00         7         1½         ½         8°11/16         7.38         1½         4½         1½         1½         11         10.06         2         6         1½         1½         1½         1½	Stroke         Bore         Dia.         Tonnage         Tonnage         A         B         C         D         E         F         G         H         J         K         WT.

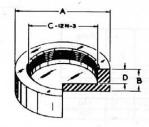
Tonnages at other strokes

- Consult factory for maximum push stroke at other tonnages. Weight for 14" stroke.
- \* Consult factory if additional pull pressure is required

Weight for each additional inch of stroke. Thread — "H" — 12 N-3

Dimension E is a Rough Casting Dimension.

**FLAT RAM CAPS** for cylinders on pages 2 and 3.



FLAT RAM CAP

CYL. I.D.	RAM DIA.	Α	В	С	D	PART NUMBER		
3	2	2-3/8	2	1-3/4	1-1/2	419060		
4	3-1/8	4	1-1/2	3	1 1	419051		
5	4	4-1/2	1-1/2	3-3/4	1	419052		
6	5	5-1/2	1-1/2	4-3/4	1	419053		
6.5	5-1/2	5-1/4	1-3/4	4-1/4	1-1/4	419054		
8	6-1/2	7	1-3/4	6	1-1/8	419055		
10	7-1/2	8-1/4	1-7/8	7-1/4	1-1/8	419075		
12	7-1/2	8-1/4	2-1/8	7-1/4	1-3/8	419076		
14	8	9-1/2	2-7/8	7-3/4	2-1/8	419077		