

H60 HYDRAULIC MILL A50 AIR MILL CYLIND 250 PSI AIR 2,000 PSI HYDRAULIC

2293 Werth Road, Alpena, MI 49707

Phone: 800-942-2957 (WGB-CYLS) Fax: 866-942-3297 (WGB-FAXS)

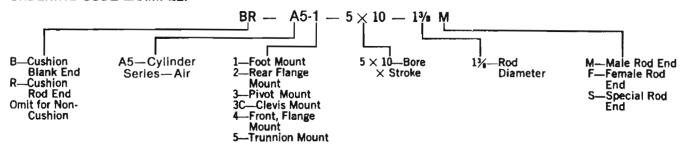
E-Mail: wgbcylinders@benjey.com



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A50 ORDERING INFORMATION

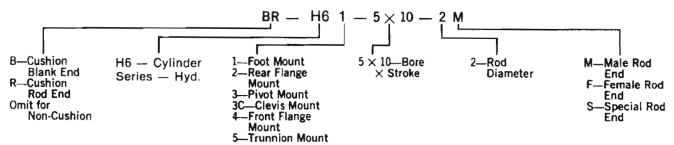
ORDERING CODE EXAMPLE:



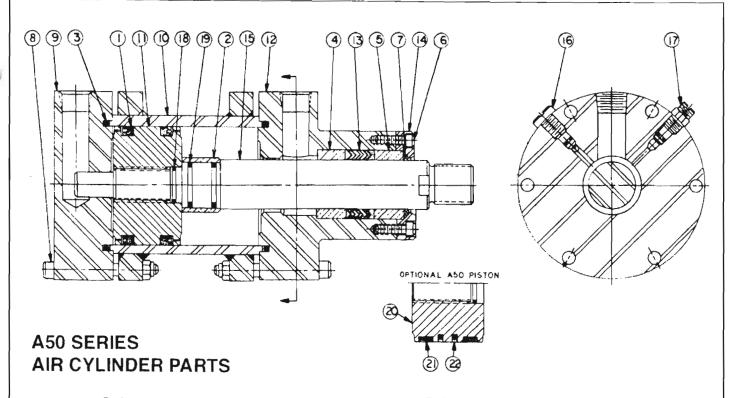
Please specify operating pressure, operating medium, and operating temperature when ordering.

H60 ORDERING INFORMATION

ORDERING CODE EXAMPLE:



Please specify operating pressure, operating medium, and operating temperature when ordering.



	Part			Part	
Number	Number	Part	Number	Number	Part
4	A.4 DI	CTON CEAL	10	440	FRANT LIFAR
1	AI — PI	STON SEAL	12	A12 -	FRONT HEAD
2	A2 Cl	JSHION BUSHING	13	A13	ROD SEAL
3	A3 — HI	EAD O-RING	14	A14 —	BEARING PLATE
4	A4 — RI	EAR ROD BEARING	15	A15 —	PISTON ROD
5	A5 — FF	RONT ROD BEARING	16	A16 —	BALL CHECK ASSEMBLY
6	A6 BI	EARING PLATE SCREW	17	A17 -	ADJUSTMENT SCREW ASSEMBLY
7	A7 - R	DD SCRAPER	18	A18 —	PISTON I.D. O-RING
8	A8 H	EAD BOLT ASSEMBLY	19	A19 —	HEAD END CUSHION O-RING
9	A9 - Ri	EAR HEAD	20	A20 —	A50 OPTIONAL PISTON
10	A10 - TL	JBE ASSEMBLY	21	A21	WEAR BAND
11	A11 — PI	STON	22	A22 —	LOW DRAG SEAL

WHEN ORDERING PARTS PLEASE GIVE THE MODEL NUMBER AND THE SERIAL NUMBER.

DESIGN FEATURES

All steel welded construction.

"V" ring type rod packings can be replaced without dismantling cylinder.

360° rod scraper furnished as standard.

Maximum length bronze bearings provide excellent piston rod support and long life.

Piston rods ground, polished and hard chrome plated are provided with wrench flats.

One piece piston of close grain meehanite for maximum bearing surface.

"U" cup piston seals can be easily removed and replaced without dismantling piston from the rod. Honed steel tubing hard chrome plated.

Keeper flanges are welded to cylinder tube for maximum strength.

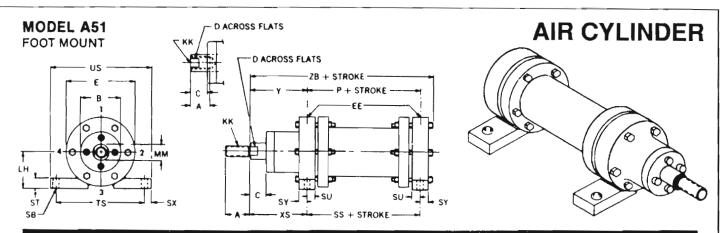
O-ring static seals are leakproof.

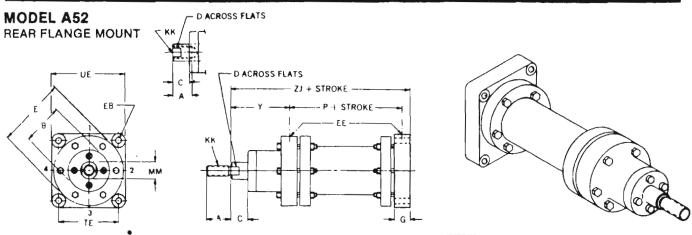
Stainless steel ball check & adjustment screws are interchangeable.

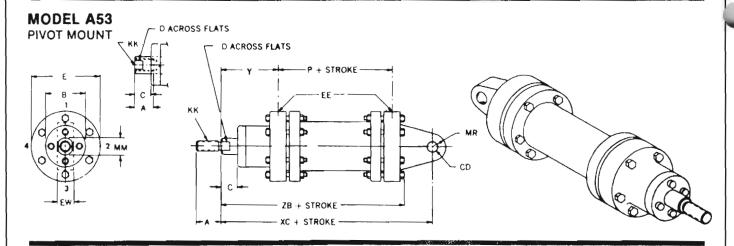
All mountings are either welded or an integral part of the cylinder for maximum strength.

Full capacity ports for minimum pressure drop.

All bolts, nuts and socket head cap screws are high tensile strength alloy steel.

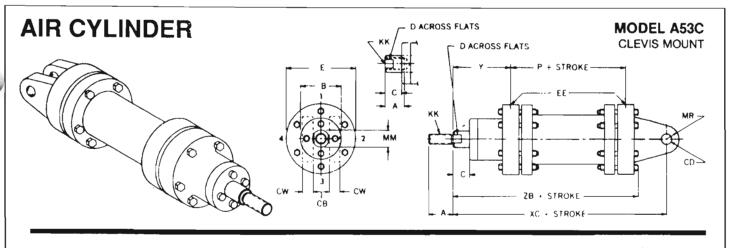


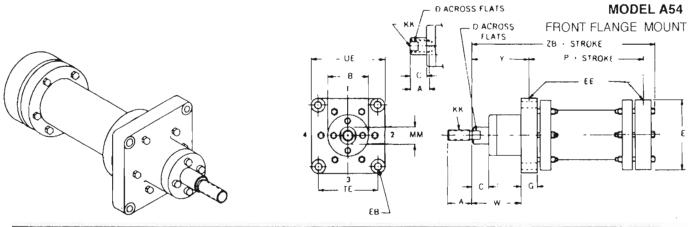


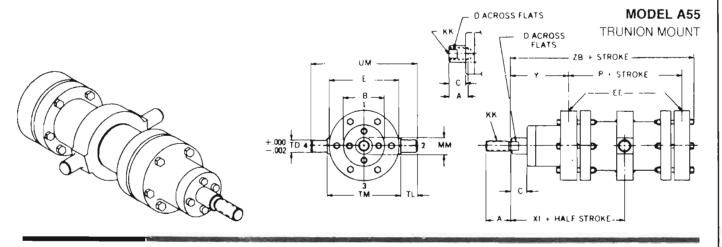


DIMENSIONS

Bore	A	В	С	٥	Ε	G	ρ	w	Y	CB	CD	cw	EB	EE	EW	кк	LH	мм	MR	58	\$5	ST	รบ	SX
2	11/4	21/2	1	1/6	31/2	1	3	3	31/2	3/4	1/2	1/2	11/52	3/6	3/4	3∕√-18	2	1	1/2	11/32	3	1/2	1/2	×
21/2	11/4	21/2	1	7∕8	41/4	1	3	3	31/2	3/4	1/2	1/2	11/52	₹,	3/4	3/6-18	21/4	1	1/2	11/ ₂	3	1/2	1/2	*
3	11/2	23/4	1	11/2	43/4	11/4	31/2	3	3%	1	3/6	5%	13/2	1/2	1	3/4-16	21/2	11/4	3/	13/52	31/2	3/4	3%	3%
4	11/2	3	1	11/4	6	11/4	3¾	31/2	41/6	1	3/8	*	13/2	1/1	1	3/4-16	31/4	1%	5/4	13/2	3¾	3/4	*	1/2
5	11/2	3	1	11/4	7	11/2	4	31/2	41/4	1	3/4	3/4	13/2	3/4	11/4	3/4-16	3%	11%	3/4	13/2	4	1	3/4	1/2
6	2	33/4	1	1%	81/2	1%	41/2	31/2	4%	11/4	1	1	13/2	3/4	11/2	1 -14	43/4	1¾	1	17/2	41/2	1	13%	1/2
7	2	3%	1	1%	91/2	15%	43/4	31/2	4%	11/4	1	1	13/2	1/4	11/2	1 -14	41/4	13/4	1	17/2	43/4	1	13%	1/2
8	21/2	3%	1	11/4	101/2	11/0	5	31/4	41%	11/4	11/4	11/4	27/32	1	1¾	11/4-12	53%	2	11/4	25/12	5	11/4	15%	3/4
10	21/2	3%	1	11/4	123/4	11/4	51/4	3¾	411/4	13/4	11/4	11/4	11/32	1	13/4	11/4-12	61/2	2	11/4	25/2	51/4	11/4	1%	3/4
12	3	41/4	1	21/4	143/4	21/6	53/4	31/6	41%	13/4	11/4	11/4	11/32	11/4	1¾	11/2-12	71/2	21/2	11/4	₹52	53/4	11/4	13/4	3/4







									DIM	ENS	ONS	(con	t'd)		-		USE	FOR	OVERS	ZE RO	D		
SY	TΩ	TE	TL	TM	TS	UE	UM	υs	ХC	ΧI	хs	28	ZJ	В	D	Υ	w	мм	хc	Χŧ	xs	2B	ZJ
1/2	.750	31/4	7∕₀	4	43%	4	53/4	5	8	5	31/2	7%	7	21/4	11/0	31/2	3	11/4	8	5	31/2	75%	7
1/2	.750	33/4	7∕₀	41/2	43/4	41/2	61/4	53%	8	5	31/2	7%	7	3	11/4	4	31/2	1%	81/2	51/2	4	71%	71/2
3/6	.750	41/4	11/4	5	5%	5	71/4	61/4	8%	5%	35%	81/4	73/4	3	11/4	41/4	31/2	1%	9%	51/6	41/4	8%	81/4
3/4	1.000	51/4	11/4	61/4	6¾	61/4	81/2	73/4	93%	6	41/8	813/4	81/2	35%	11/4	43/6	3¾	2	9%	61/4	4%	815/4	83/4
3/4	1.000	61/4	11/4	71/4	71/4	71/4	91/2	83/4	101/4	61/4	41/4	95/4	9	41/4	21/4	43%	31/8	21/2	10%	63/6	4%	91%	93%
17/4	1.250	73/4	11/6	81/4	91/4	83/4	11	101/4	111/4	6%	4%	10	91/4	41/4	21/4	41%	3%	21/2	11%	615/4	41%	10%	10
13/6	1.250	8¾	11/4	9¾	101/4	93/4	12	111/4	111/2	611/6	4%	101/4	9%	41/4	23/4	41X4	31/8	3	111/6	71/4	41%	105/6	101/4
15%	1.500	8¾	11/4	103/4	11%	10¾	131/4	131/4	125/6	73/4	41%	11	10%	4%	23/4	413/4	31/8	3	123/4	7%	413/4	111/4	103/4
15%	2.000	101/2	11/2	13	13%	123/4	16	15%	12%	7%	411/4	11%	10%	61/8	33/4	5%	43%	41/4	131/2	71%	5%	12	111/2
11/4	2.000	121/4	11/2	15	15%	141/4	18	17%	13¾	71%	415/6	121/4	11¾	81/2	51/4	6¼ ₆	5	51/4	14%	8134	6¾ 6	133%	121/8

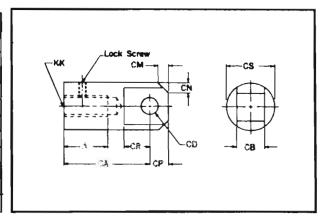
Mounting Accessories



E-mail: wgbcylinders@benjey.com

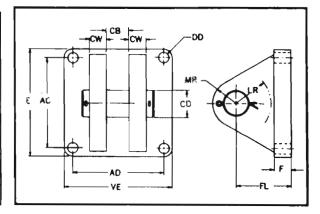
ROD EYE

Part No.	Air	Hyd.	A	CA	CB	CD	CM	CN	CP	CR	CS	KK
IE-100	2-21/2		2	31/3	1/4	1/2	1/2	1 1 1 1 1 1 1 1 1	%	1/6	11/2	%-18
IE-200	3-4-5	2	2	4	1	3/4	*	13/2	15%	1	1%	₹-16
IE-250	6	21/2	21/2	41/4	11/4	1	Ж	У	1	11/4	2	1 -14
IE-300	7	3	21/2	51/2	11/4	11/4	1/2	*	11/4	1%	21/2	1 -14
IE-400	8-10	4	3	61/2	13/4	1%	1	3%	11/4	13/4	21/8	11/4-12
IE-500	12	5	31/2	71/2	2	11/2	₹	₹,	11/2	2	3	11/2-12
1E-600		6	41/4	8	2	11/2	11/2	11/4	1¾	21/4	31/2	2 -12
IE-700	1	7	51/4	81/2	3	2	1%	13%	23%	21/3	436	21/5- 8
IE-800		8	51/4	83%	3	2	1%	13%	23/4	21/2	4%	21/2- 8
IE-1000		10	61/4	91/2	31/2	21/2	11/4	1%	23/4	3	51/2	3 - 8
IE-1200		12	81/2	121/2	4	3	2%	21/4	31/4	31/2	7	4 - 8



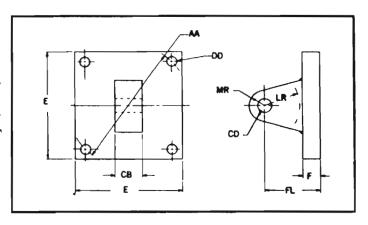
CLEVIS BRACKET

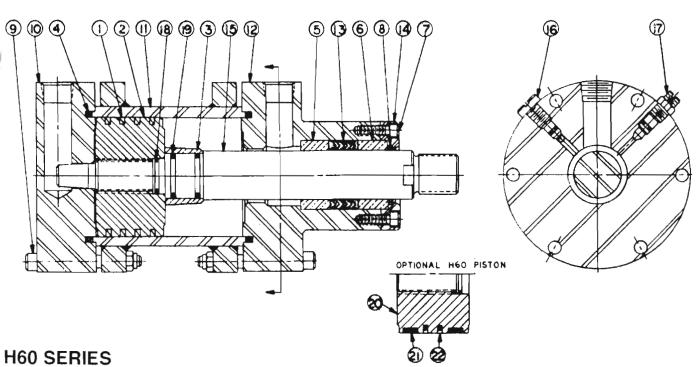
	Bor	re e												
Part No.	Air	Hyd.	E	ų.	AC	AD	CB	CO	CM	DD	FL	LR	MR	VE
CB-100	2-21/2		3	%	21/4	3	3/4	1/2	1/2	X4	1%	1/4	1/2	31/4
CB-150	3-4		31/2	1/4	23/4	31/2	1	3%	1/4	1/4	1¾	1/4	%	41/4
CB-200	5	2	31/2	%	23/4	31/2	1	3/4	3/4	1/4	11/8	1	3/4	41/4
CB-250	6-7	21/3	41/2	1/4	3%	4%	11/4	1	1	Х,	23%	11/4	1	51/4
CB-300		3	51/4	1	41/3	51/4	11/4	11/4	1/6	13/4	3	11/4	11/4	61/2
CB-400	8-10-12	4	6	11/4	41/2	6¾	11/4	13%	11/4	15%	31/4	1¾	1%	81/4
CB-500		5-6	7	11/2	5	81/4	2	11/2	11/4	1%	3%	2	11/2	101/4
CB-600		7-8	9	11/4	61/2	11	3	2	11/2	1%	43/4	21/2	2	131/
CB-700		10	111/2	2	81/2	11	31/2	21/2	2	113/6	51/2	3	21/2	14
CB-800		12	12	21/2	83/4	131/4	4	3	21/4	23/4	63/4	3¾	3	161/



PIVOT BRACKET

	Bor	•									
Part No.	Air	Hyd.	E	F	AA	C S	CD	00	FL	LR	MR
PB-100	2-21/2		3	%	3.18	3/4	1/2	X,	1%	1/4	1/2
PB-150	3-4		31/4	3/8	3.53	1	3/4	<i>K</i> ₄	1¾	1 / ₁	*
PB-200	5	2	33%	%	3.53	1	3/4	₹,	11/4	1	3/4
PB-250	6-7	21/2	41/4	3/4	4.94	11/4	1	₹4	23%	11/4	1
PB-300		3	41/4	1	4.94	11/4	11/4	13%	3	11/4	11/4
PB-400	8-10-12	4	51/2	11/4	6.18	11/4	11%	15%	31/4	1¾	1%
PB-500		5-6	63/4	11/2	6.71	2	11/2	11/4	3%	2	11/2
PB-600		7-8	9	13/4	9.18	3	2	1%	43/4	21/2	2
PB-700		10	11	2	11.31	31/2	21/2	111/4	51/2	3	21/2
PB-800		12	121/2	21/2	12.71	4	3	24,	6¾	3¾	3





HOU SERIES	
HYDRAULIC	CYLINDER

	Part			Pari		
Number	Number	Part	Number	Number	Part	
1	H1	PISTON SEAL	12	H12 —	FRONT HEAD	
2	H2	PISTON	13	H13 —	ROD SEAL	
3	H3	CUSHION BUSHING	14	H14 —	BEARING PLATE	
4	H4 —	HEAD O-RING ASSEMBLY	15	H15 —	PISTON ROD	
5	H5	REAR ROD BEARING	16	H16 —	BALL CHECK ASSEMBLY	
6	H6 —	FRONT ROD BEARING	17	H17	ADJUSTMENT SCREW ASSEMBLY	
7	H7 —	BEARING PLATE SCREW	18	H18 —	PISTON I.D. O-RING	
8	H8 —	ROD SCRAPER	19	H19 —	HEAD END CUSHION O-RING	
9	H9 —	HEAD BOLT ASSEMBLY	20	H20	H60 OPTIONAL PISTON	
10	H10	REAR HEAD	21	H21	WEAR BAND	
11	H11 —	TUBE ASSEMBLY	22	H22 —	LOW DRAG SEAL	
7 8 9 10	H7 — H8 — H9 — H10 —	BEARING PLATE SCREW ROD SCRAPER HEAD BOLT ASSEMBLY REAR HEAD	18 19 20 21	H18 — H19 — H20 — H21 —	PISTON I.D. O-RING HEAD END CUSHION O-RING H60 OPTIONAL PISTON WEAR BAND	BLY

WHEN ORDERING PARTS PLEASE GIVE THE MODEL NUMBER AND THE SERIAL NUMBER.

DESIGN FEATURES

All steel welded construction.

"V" ring type rod packings can be replaced without dismantling cylinder.

360° rod scraper furnished as standard.

Maximum length bronze bearings provide excellent piston rod support and long life.

Piston rods ground, polished and hard chrome plated are provided with wrench flats.

Shouldered male rod end thread for accurate positioning.

One piece piston of close grain meehanite for maximum bearing surface.

Step cut cast iron piston rings provide minimum leakage.

Honed steel tubing hard chrome plated.

Keeper flanges are welded to the cylinder tube for maximum strength.

Static O-ring head seals are leakproof.

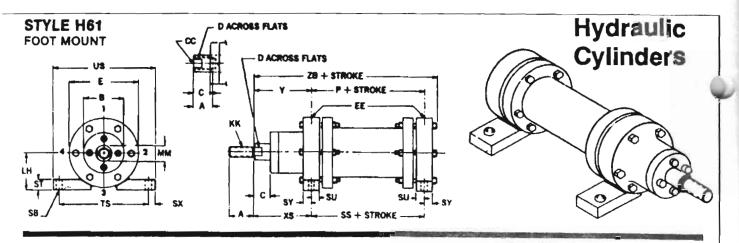
Cylinder cushions are tapered for smooth deceleration.

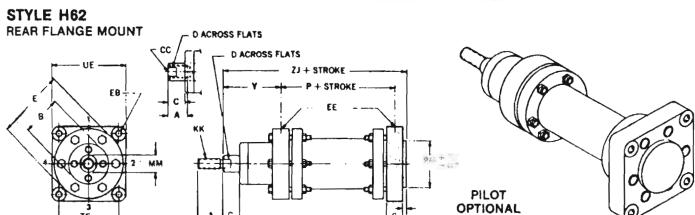
Stainless steel ball check & adjustment screws are interchangeable.

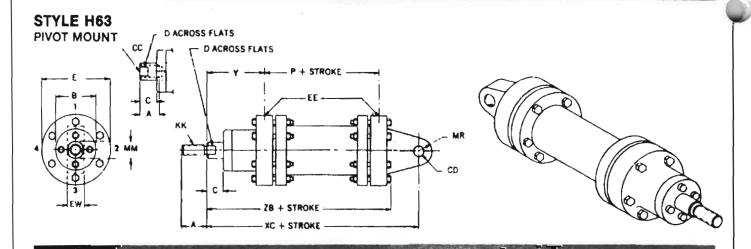
All mountings are either welded or an integral part of the cylinder for maximum strength.

Full capacity ports for minimum pressure drop.

All bolts, nuts and socket head cap screws are high tensile strength alloy steel.

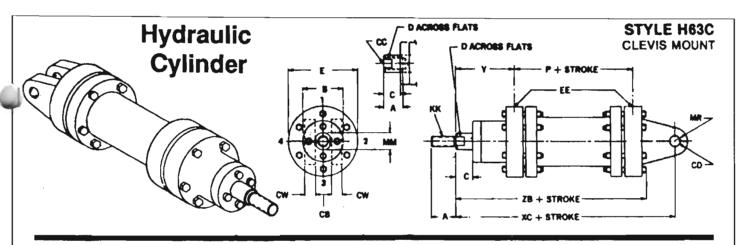


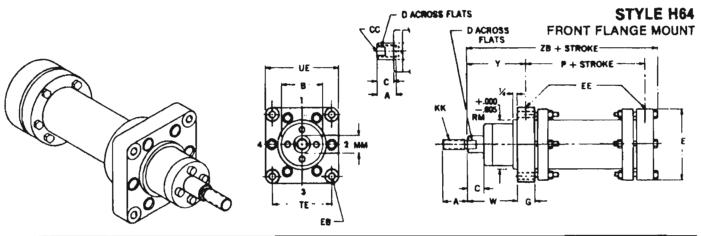


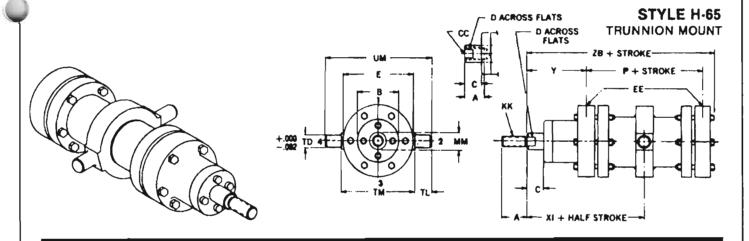


DIMENSIONS

Bore	A	•	C	D	E	6	P	w	Υ	CB	CC	CB	CW	EB	ΨE	€₩	_{::} KK	LH	MM	MR	RM	59	55	\$7	\$ U
2	11/2	21/2	1	1/6	31/4	1%	21%	3	311/42	1	3/4-16	3/4	3/4	X4	1/2	1	3/4-16	2	1	3/4	3.500	13/2	211/4	. %	23/52
21/2	2	2¾	1	11/4	41/2	1%	33/4	3	37/42	11/4	7∕₀-14	1	7∕8	%	1/2	11/4	1 -14	23/6	11/4	1	3.875	17/42	33 _{K4}	*	3%,
3	2	3	1	11/4	5	11/2	41/8	31/2	41/4	11/4	1 -14	11/4	1/6	11/4	3/4	11/4	1" -14	23%	1%	11/4	4.375	₹4	41/6	1/4	*
4	21/2	3%	1	1%	61/2	1%	4%	31/2	43/4	1¾	11/4-12	1%	11/4	13%	3/4	1¾	11/4-12	3%	1¾	1%	5.375	₹4	4%	1/4	13%
5	3	31/8	1	11/8	7¾	1%	6	31/4	41/4	2	11/2-12	11/2	11/4	11/4	1	2	11/2-12	4	2	11/2	6.562	11/2	6	1	11/4
6	4	41/4	1	21/4	91/4	1%	61/2	3%	413/4	2	11/4-12	11/2	11/4	1%	1	2	2 -12	43/4	21/2	11/2	7.437	15/4	61/2	11/4	13%
7	5	4%	1	23/4	101/2	23/8	71/4	31/0	51/4	3	2 -12	2	11/2	11/4	1	3	21/2-8	51/6	3	2	8.500	11/4	73/4	11/2	13%
8	5	41/8	1	2¾	111/4	23%	73/4	31/8	51/4	3	2 -12	2	11/2	1%	11/4	3	21/2-8	6	3	2	9.375	1%	73/4	11/2	13%
10	6	5%	1	31/4	141/2	21/2	81/4	41/8	53%	31/2	21/2-12	21/1	2	11%	11/2	31/2	3 - 8	7%	31/2	21/2	11.500	19%	81/6	2	11/4
12	8	81/2	1	51/4	181/1	21/4	81/4	5	63%	4	4 -12	3	21/4	21/16	11/2	4	4 - 8	91/0	5¾	3	13.500	21/4	83%	2	1%







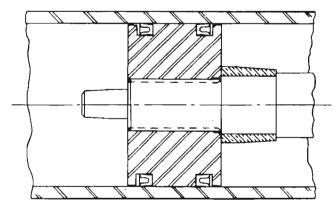
										DIM	NCI	ONC	1000											
										DIMI	1491	UNS	(COI	ica)				USE I	FOR O	VERSI	ZE ROI)		
\$X	SY	TD	TE	TL	TM	TS	U€	UM	US	ХC	χı	XS	28	ZJ	8	D	Υ	w	мм	ХC	χι	XS	28	ZJ
1/2	7/52	1.000	3.22	1	4	43/4	4	6	5¾	81/2	51/6	37/52	7%	71/2	23/4	11/4	43/2	31/2	1%	9	53%	45/2	81/4	8
"K6	27/42	1.250	3.84	11/4	43%	5%	43/4	71/4	7	9	51/4	37/42	7' X .	7¾	33%	1%	45%	31/2	13/4	91/2	5¾	45/2	81/4	81/4
13/6	3/4	1.500	4.37	11/2	51/4	63%	51/2	81/4	8	10%	6%	41/4	91/2	93%	3%	1%	41/2	3¾	2	11%	6%	41/2	91/4	93%
15/4	13%	1.500	5.75	11/2	65%	81/4	73/4	95%	10	11%	6¾	4%	10%	101/4	41/4	21/4	411/4	31/0	21/2	121/4	71/4	411/4	1013/4	10%
11/4	13/6	1.750	6.89	1¾	7%	91/1	83/4	11%	12	13%	7יא ₆	41%	121/0	11%	51/6	31/4	5⅓•	41/2	31/2	14	8¼ ₄	51/4	121/2	121/4
11/4	₹4	1.750	8.22	1¾	9%	113/4	101/2	12%	141/4	141/4	81/4	44%	12¾	121/2	61/6	3¾	51/4	43%	41/4	143/4	8%	5%	131/4	13
1%	1%	2.000	9.28	2	10%	131/4	111/4	14%	16	161/2	81%	51/4	14%	141/4	61/6	33/4	5%	43/2	41/4	17	9%	5%	151/4	143/4
11/2	13/4	2.000	10.34	2	111/4	143/4	13	15%	17¾	161/2	81%	51/4	14%	141/4	81/2	51/2	63/4	5	5¾	173/	10%	63/4	153/4	15%
1¾	11/4	2.500	14.50	21/1	14%	18	171/2	19%	211/2	173/4	9%	5%	15%	15	91/2	63/4	6¾	51/2	7	191/4	10יאָ	6¾	17	163%
2	13%	3.000	19.25	3	18%	221/2	221/2	243%	261/2	19%	10%	6¾	171/0	16%	11	81/4	73%	6	81/2	203/8	11%	73%	181/6	17%

Special Options

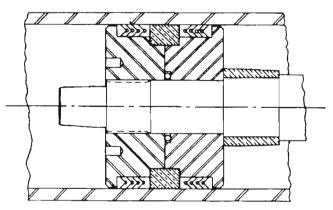


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*STYLE 1 **FABRIC U CUP TYPE** OR URETHANE



*STYLE 3 V RING TYPE



*Shown above are 2 alternate piston designs which are available. There are some dimensional changes when using the alternate pistons, please consult our Engineering Dept.

We can furnish a cylinder to any specification. Some examples include special Rod ends, special Mountings, cylinders with Stop Tubes, Dual Mountings on the cylinders, and cylinders with special Operating Media.

We also carry seals for high temperature operation and a complete line of Double Rod end cylinders.

We invite you to use our Engineering for your special applications.

GENERAL RECOMMENDATIONS

When you receive your cylinder it is advisable to leave the shipping enclosures in place in the port until the cylinder is ready to be piped. Use approved thread sealers sparingly. Make sure adequate preparation has been made to the mounting surface. Recheck the cylinder for alignment after mounting. Be sure the mounting surface is rigid enough. Use socket hydraulic cap screws where possible.

When using air as an operating medium, use clean, dry compressed air. Supply lines should be of adequate size to prevent too much pressure

drop in your system. A lubricator should be installed in the line.

When using hydraulic oil as an operating medium, provide a clean (filtered) good grade of hydraulic oil, with a high aniline point. Consult the factory when using low aniline point oils or noninflammable fluids.

Make sure all piping is clean and free of any harmful substances.

Adjust cushions as required. With careful installation and lubrication your Rantom cylinder will give outstanding, long lasting performance.

POLICY: IN ORDER TO ASSURE OUR CUSTOMERS THE BEST IN PRODUCTS THROUGH IMPROVEMENTS IN DESIGN AND MANUFACTURE, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



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CYLINDER FORCE CHARTS

Cylinder Thrust Force and Fluid Displacement Theoretical (Maximum) Values

Cyl. Bore	Piston Area			Cylinder	Thrust F	orce (lbs	.) at variou	ıs Line Pre	ssure (psi)		Fluid Displacement Per Inch of Stroke
(in.)	(Sq. In.)	50	80	100	250	500	750	1000	1500	2000	3000	(U.S. Gallons)
11/2	1.767	88	141	177	442	884	1,325	1,767	2,651	3,534	5,301	.0076
2	3.142	157	251	314	785	1,571	2,356	3,142	4,712	6,283	9,426	.0136
21/2	4.909	245	393	491	1,227	2,454	3,682	4,909	7,363	9,817	14,727	.0213
3	7.069	353	565	707	1,767	3,534	5,301	7,069	10,600	14,140	21,210	.0306
4	12.57	628	1,005	1,257	3,142	6.283	9,425	12,570	18,850	25,130	37,710	.0544
5	19.63	982	1,571	1,963	4,909	9,817	14,730	19,630	29,450	39,270	58,920	.0850
6	28.27	1,414	2,262	2,827	7.069	14,140	21,210	28,270	42,410	56,550	84,810	.1224
7	38.48	1,924	3,079	3,848	9,621	19,240	28,860	38,480	57,730	76,970	115,470	.1666
8	50.27	2,513	4,021	5,027	12,570	25,130	37,700	50,270	75,400	100,500	150,780	.2176
10	78.54	3,927	6,283	7,854	19,630	39,270	58,900	78,540	117,800	157,100	235,620	.3400
12	113.1	5,655	9,048	11,310	28,270	56,550	84,820	113,100	169,600	226,200	339,300	.4896
14	153.9	7,697	12,320	15,390	38,480	76.970	115.500	153,900	230,900	307,900	461,700	.6662

Cylinder Return Forces and Fluid Displacement

To determine the cylinder return force or fluid displacement for the return stroke, deduct the value(s) listed in this table, for the rod size used, from the value(s) listed in the table above.

Rod Dia.	Rod Area			Deduc	tible Ret	urn Force	(lbs.) at v	arious Lin	e Pressure	es (psi)		Deductible Fluid Displacement Per inch of Stroke
(in.)	(Sq. In.)	50	80	100	250	500	750	1000	1500	2000	3000	(U.S. Gallons)
- %	.3068	15	25	31	77	153	230	307	460	614	.920	.0013
1	.7854	39	63	79	196	393	589	785	1,178	1,571	2,356	.0034
13/8	1.485	74	119	148	371	742	1,114	1,485	2,227	2,970	4,455	.0064
13/4	2.405	120	192	241	601	1,203	1,804	2.405	3,608	4,811	7,216	.0104
2	3.142	157	251	314	785	1,571	2,356	3,142	4,712	6,283	9,425	.0136
21/2	4.909	245	393	491	1,227	2,454	3,682 -	4,909	7,363	9,817	14,730	.0213
3	7.069	353	565	707	1,767	3,534	5,301	7,069	10,600	14,140	21,210	.0306
31/2	9.621	481	770	962	2,405	4,811	7,216	9,621	14,430	19,240	28,860	.0416
4	12.57	628	1,005	1,257	3,142	6,283	9,425	12,570	18,850	25,130	37,700	.0544
41/2	15.90	795	1,272	1,590	3,976	7,952	11,930	15,900	23,860	31,810	47,710	.0688
5	19.63	982	1.571	1,963	4,909	9,817	14,730	19,630	29,450	39,270	58,900	.0849
51/2	23.75	1,188	1,901	2,376	5,940	11,880	17,820	23,760	35,640	47,520	71,270	.1028
7	38.48	1,924	3,079	3,848	9.621	19,240	28,860	38,480	57,730	76,970	115,500	.1665

LIMITED EXPRESS WARRANTY

W.G. BENJEY CYLINDERS INC. HEREIN SUPPLIES ONLY A LIMITED EXPRESS WARRANTY FOR ALL PRODUCTS THE COMPANY MANUFACTURES OR ASSEMBLES FOR A PERIOD OF ONE YEAR FROM THE DATE OF MANU-FACTURE AS FOLLOWS. IT WILL ONLY REPAIR OR REPLACE ANY PARTS WHICH ITS INSPECTION PROVES TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP OCCURRING WITHIN TWELVE (12) MONTHS FROM ITS DATE OF DELIVERY TO ITS ORIGINAL PURCHASER WHEN THE PRODUCT HAS BEEN USED UNDER CONDI-TIONS IN WHICH IT WAS DESIGNED TO OPERATE. WE WILL NOT ACCEPT ANY CHARGES FOR REMOVAL, INSTALLATION, ASSEMBLY OR ANY OTHER CHARGES IN CONNECTION WITH REPLACEMENT OR REPAIR OF THE PRODUCT (S). NO WARRANTY IS EXTENDED AGAINST CORROSION, EROSION OR CHEMICAL AT-TACK, AND THE LIABILITY OF THE COMPANY UNDER THIS WARRANTY FOR LOSS OR DAMAGE OF ANY NA-TURE, WHETHER BASED ON CONTRACT OR TORT, SHALL NOT EXCEED THE PURCHASE PRICE OF THE EQUIPMENT MANUFACTURED BY THE COMPANY. THE COMPANY SHALL NOT BE LIABLE FOR ANY CONSE-QUENTIAL, CONTINGENT, PUNITIVE OR INCIDENTAL DAMAGES. AT OUR OPTION WE RETAIN THE RIGHT TO HAVE THE PRODUCT(S) REPAIRED ON SITE OR RE-TURNED TO OUR MANUFACTURING PLANT FOR OUR INSPECTION, REPAIR AND TESTING OF THE UNITS. ALL PRODUCT (S) UNDER WARRANTY WHICH ARE ALLEGED TO BE DEFECTIVE ARE TO BE RETURNED TO THE FACTORY FREIGHT PREPAID, TO OUR PLANT. A COMPLETE EXPLANATION IS REQUIRED OF THE AL-LEGED DEFECTS AND CIRCUMSTANCES OF SUCH CLAIMED FAILURE.

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LIMITATION OF REMEDY

THE PARTIES AGREE THAT THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE SELLER SHALL BE FOR THE REPAIR OR REPLACEMENT OF DEFEC-TIVE PARTS AS PROVIDED HEREIN. THE PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, LOST PRODUCTION, INJURY TO PERSON OR PROPERTY OR FOR INDEMNIFICATION FOR LOSS OR EXPENSE THERE-TO, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO PURCHASER. THE SOLE PURPOSE OF THE STIPULATED EXCLUSIVE REM-EDY SHALL BE TO DELIMIT SELLER'S OBLIGATION TO PURCHASER. THIS EXCLUSIVE REMEDY SHALL NOT BE DEEMED TO HAVE FAILED OF ITS ESSENTIAL PUR-POSE SO LONG AS THE SELLER IS WILLING AND ABLE TO REPAIR OR REPLACE DEFECTIVE PARTS IN THE PRESCRIBED MANNER.

EXCLUSION OF WARRANTIES

THE PARTIES AGREE THAT THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED FROM THIS TRANSACTION AND SHALL NOT APPLY TO THE GOODS SOLD.



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