

SINGLE ACTING HOLLOW PISTON CYLINDERS

HYDRAULIC CYLINDERS

C



RHS-604

RHS-1003

RHS-302

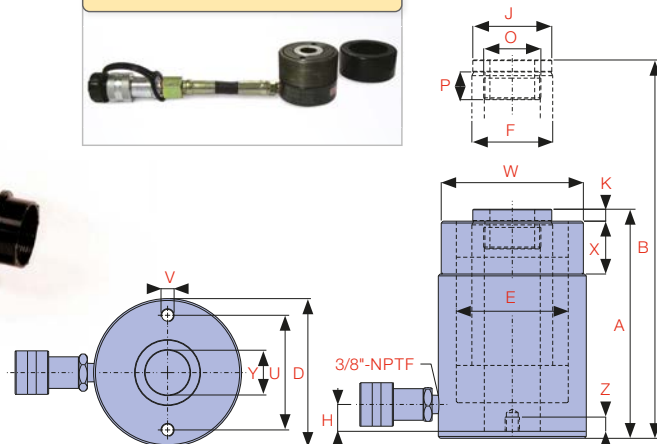
EXCEEDS
ANSI/ASME B30.1
SAFETY
STANDARDS



THE **RHS-SERIES** IS A SINGLE ACTING SPRING RETURN HOLLOW PISTON ROD CYLINDER.

The hollow piston allows for a rod or cable to be inserted through the entire body length. They can be used in tensioning, load testing, bush extracting and maintenance applications. All RHS-Series cylinders feature a hard chrome cylinder bore and piston rod for maximum corrosion resistance and a bronze overlay piston bearing area to reduce scoring and increase service life. All cylinders incorporate a bolt on removable steel base plate for extra protection.

The **RHS-120** is supplied with a whip hose and CR-6 high flow coupling



Model Number	Cylinder Capacity ton* / max.		Stroke (in)	Cylinder Effective Area (in²)	Oil Capacity (in³)	A Collapsed Height (in)	B Extended Height (in)	D Outside Diameter (in)	E Cylinder Bore Diameter (in)	F Piston Rod Diameter (in)	H Base to Advance Port (in)	J Standard Load Cap Diameter (in)
RHS-120	12	13.8	0.31	2.77	0.86	2.48	2.80	2.75	2.13	1.38	0.38	-
RHS-121		13.8	1.63	2.77	4.49	5.04	6.69	2.75	2.13	1.38	0.75	-
RHS-1211		13.8	1.63	2.77	4.49	5.04	6.69	2.75	2.13	1.38	0.75	-
RHS-123		13.8	3.00	2.77	8.29	7.56	10.55	2.75	2.13	1.38	0.75	-
RHS-202	20	23.6	2.00	4.76	9.46	6.77	8.70	3.88	2.88	2.13	0.75	2.13
RHS-204		23.6	4.02	4.76	12.33	9.92	13.94	3.88	2.88	2.13	0.75	2.13
RHS-206		23.6	6.10	4.76	28.67	12.44	18.54	3.88	2.88	2.13	0.75	2.13
RHS-302	30	36.1	2.50	7.22	18.05	7.40	9.92	4.50	3.50	2.50	0.87	2.50
RHS-304		36.1	4.02	7.22	18.71	9.57	13.58	4.50	3.50	2.50	0.87	2.50
RHS-306		36.1	6.13	7.22	44.23	13.39	19.49	4.50	3.50	2.50	0.98	2.50
RHS-603	60	63.6	3.00	12.76	38.20	10.20	13.19	6.25	4.88	3.63	1.22	3.61
RHS-604		63.6	4.06	12.76	33.37	11.73	15.79	6.25	4.88	3.63	1.22	3.61
RHS-606		63.6	6.00	12.76	76.41	13.19	19.21	6.25	4.88	3.63	1.22	3.61
RHS-1003	100	103.1	3.00	20.62	61.88	10.63	13.62	8.38	6.50	5.00	1.50	4.97
RHS-1006		103.1	5.98	20.62	79.59	15.31	21.30	8.38	6.50	5.00	2.13	4.97

* Nominal Cylinder Capacity in ton - see max. values for actual capacity

SINGLE ACTING HOLLOW PISTON CYLINDERS

PISTON ROD WIPER

reduces contaminants

HARD CHROME PLATED PISTON ROD

for maximum corrosion resistance and cylinder life

HARD CHROME PLATED BORE

for maximum corrosion resistance and cylinder life

STEEL BASE PLATE

protects base and threaded mounting holes and is removable

THREADED FIT SMOOTH LOAD CAP

to prevent piston rod damage. Optional TSH threaded load caps available

GLAND NUT

with low friction coating withstands full dead end loading

RETURN SPRING

is sized to ensure efficient piston rod return and maximum spring life

BRONZE OVERLAY

on piston bearing area reduces side load induced damage and extends cylinder life



CAPACITY RANGE

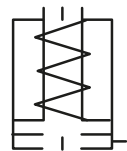
12 - 100 ton

STROKE RANGE

0.31 - 6.13 in

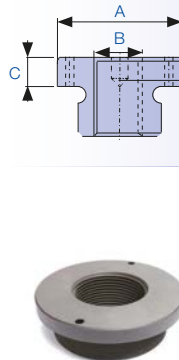
MAXIMUM OPERATING PRESSURE

10,150 psi



HYDRAULIC CYLINDERS

Lightweight aluminum hollow cylinders are available in single and double acting designs - see pages 50 to 53



Optional Threaded Load Caps				Model Number
Model Number	A (in)	B	C (in)	
TSH-20	2.11	1"-8UNC	0.38	RHS-202
TSH-20	2.11	1"-8UNC	0.38	RHS-204
TSH-20	2.11	1"-8UNC	0.38	RHS-206
TSH-30	2.49	1-1/4"-7UNC	0.38	RHS-302
TSH-30	2.49	1-1/4"-7UNC	0.38	RHS-304
TSH-30	2.49	1-1/4"-7UNC	0.38	RHS-306
TSH-60	3.61	1-5/8"-5-1/2UN	0.50	RHS-603
TSH-60	3.61	1-5/8"-5-1/2UN	0.50	RHS-604
TSH-60	3.61	1-5/8"-5-1/2UN	0.50	RHS-606
TSH-100	4.97	2-1/2"-8UN	0.51	RHS-1003
TSH-100	4.97	2-1/2"-8UN	0.51	RHS-1006

K Load Cap Protrusion from Piston Rod (in)	O Piston Rod Internal Thread	P Piston Rod Thread Length (in)	W Collar Thread	X Collar Thread Length (in)	Y Center Hole Diameter (in)	Base Mounting Holes			Weight (lbs)	Model Number	Handle Type
						U Bolt Circle Diameter (in)	V Thread	Z Thread Depth (in)			
-	3/4"-16UNF	0.63	2-3/4"-16UN	1.19	0.77	2.00	5/16"-18UNC	0.35	4.4	RHS-120	
-	-	-	2-3/4"-16UN	1.19	0.77	2.00	5/16"-18UNC	0.35	6.2	RHS-121	
-	3/4"-16UNF	0.63	2-3/4"-16UN	1.19	0.77	2.00	5/16"-18UNC	0.35	6.2	RHS-1211	
-	-	-	2-3/4"-16UN	1.19	0.77	2.00	5/16"-18UNC	0.50	9.7	RHS-123	
0.27	1-9/16"-16UN	0.75	3-7/8"-12UN	1.50	1.06	3.25	3/8"-16UNC	0.37	17.0	RHS-202	♣
0.27	1-9/16"-17UN	0.75	3-7/8"-13UN	1.50	1.06	3.25	3/8"-16UNC	0.37	22.1	RHS-204	♣
0.27	1-9/16"-16UN	0.75	3-7/8"-12UN	1.50	1.06	3.25	3/8"-16UNC	0.37	31.1	RHS-206	♣
0.38	1-13/16"-16UN	0.88	4-1/2"-12UN	1.66	1.31	3.63	3/8"-16UNC	0.55	24.0	RHS-302	♣
0.38	1-13/16"-17UN	0.88	4-1/2"-13UN	1.66	1.31	3.63	3/8"-16UNC	0.55	30.9	RHS-304	♣
0.38	1-13/16"-18UN	0.88	4-1/2"-12UN	1.66	1.31	3.63	3/8"-16UNC	0.55	48.1	RHS-306	♣
0.50	2-3/4"-16UN	0.75	6-1/4"-12UN	1.91	2.12	5.13	1/2"-13UNC	0.55	62.0	RHS-603	♥
0.50	2-3/4"-16UN	0.75	6-1/4"-12UN	1.91	2.12	5.13	1/2"-13UNC	0.55	66.2	RHS-604	♥
0.50	2-3/4"-16UN	0.75	6-1/4"-12UN	1.91	2.12	5.13	1/2"-13UNC	0.55	78.1	RHS-606	♥
0.50	4"-16UN	1.00	8-3/8"-12UN	2.38	3.11	7.00	5/8"-11UNC	0.75	138.9	RHS-1003	♥
0.50	4"-16UN	1.00	8-3/8"-12UN	2.38	3.11	7.00	5/8"-11UNC	0.75	161.0	RHS-1006	♥

HANDLE TYPES: ♣ WELDED ♥ REMOVABLE STRAP HANDLE