

LOCKING COLLAR CYLINDERS

RGL Series — Single Acting, locking collar cylinders
Comprehensive range of heavy lift cylinders



LOCKING COLLAR CYLINDERS

SAFETY AND DURABILITY FOR YOUR HEAVY LIFTING

Hydraulic Technologies brand Power Team™ specializes in high-pressure hydraulic technology. Through a broad range of leading edge component parts, accessories and tools, Power Team enables the creation and upkeep of concentrated force delivery solutions that can meet any application criteria.

RGL Series is perfect for any bridge construction application.



This new range of cylinders has been designed for safety and reliability by incorporating the following design elements:

Overview

- **The patented self-aligning piston gland design** minimizes the effects of offset load conditions.
- **The patented deep swivel cap** provides concentrated load centering up to 5°
- **The Power-Tech nitrocarburization treatment** inhibits corrosion and provides durability in harsh applications
- **The mechanical locking collar** safely supports loads for an extended period, removing the chance of a hydraulic leak down resulting in load shift.

A CLOSER LOOK AT THE TECHNOLOGY

Patented Swivel Cap Technology Reduces Binding During Off-Set Load Conditions

Positive Mechanical Locking Collar Safely Supports Load for Extended Periods of Time with Hydraulic Pressure Released

New Seal Band Technology Reduces Wear and Provides Lubricity

Threaded Eyelets for 50-181Tonne (Carry Straps Provided for 227-544 Tonne Cylinders)

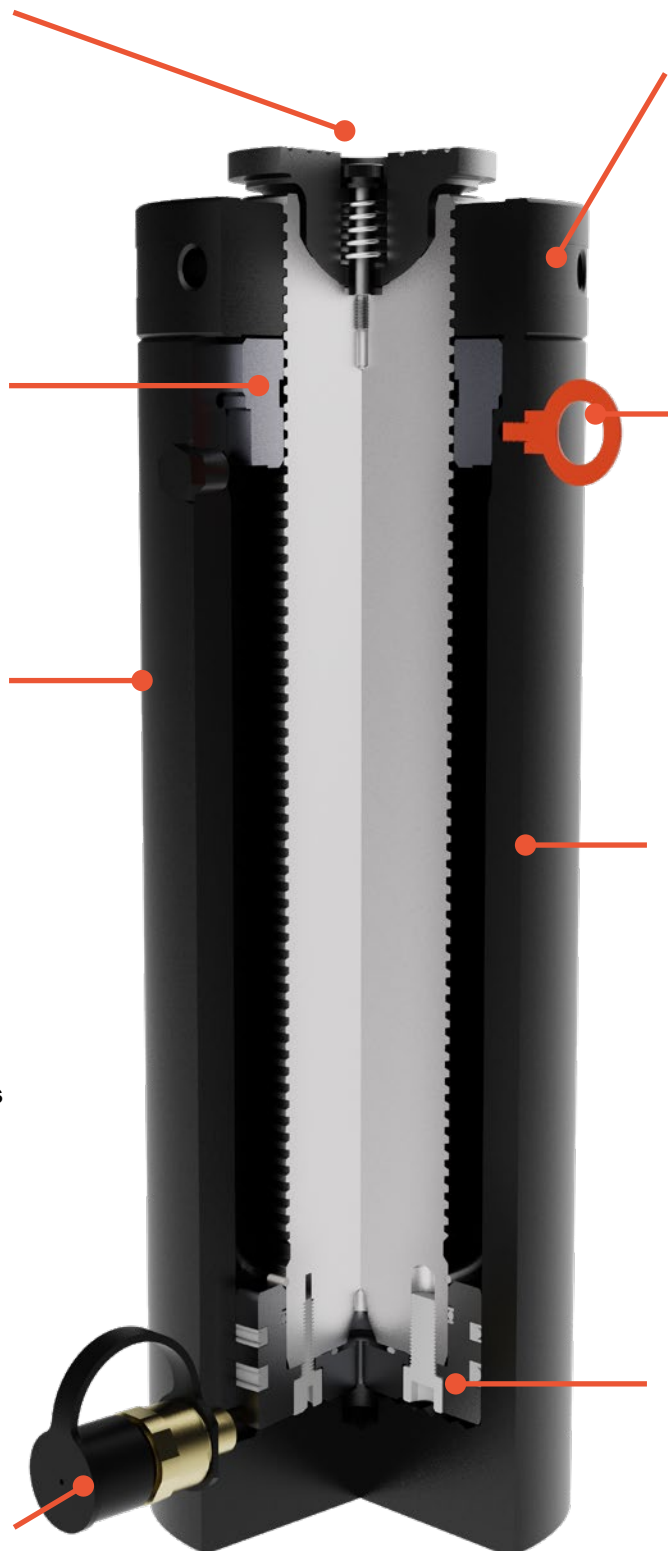
Design complies with AMSE/ ANSI B30.1 Safety Standard

Power-Tech Surface Treatment Provides Extended Durability

Heavy Duty, Heat Treated Piston Rod for the Most Demanding Applications

Self Aligning Piston Gland Design Resists Side Loading

High Pressure 3/8" NPTF Coupler



RGL SERIES

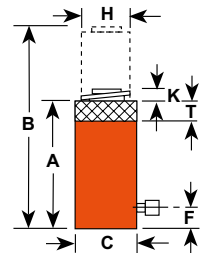
Model shown: RGL552



Single Acting, Load Return Cylinders Tonne Range: 50-181

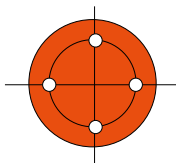
- Positive mechanical locking collar safely supports load for extended periods of time with hydraulic pressure released.
- Patented swivel cap provides concentrated load centering up to 5 degrees.
- Sealing technology provides rod lubrication to reduce friction and wear.
- Robust retaining ring withstands full load end stop and conforms with ANSI B30.1 standards. Power-Tech nitro-carburization surface treatment inhibits corrosion and provides exceptional durability.
- Power-Tech nitrocarburization surface treatment inhibits corrosion and provides exceptional durability.

NOTICE: When selecting a hydraulic cylinder(s) capacity and stroke, Power Team recommends that you size to 80% of the maximum rated capacity and stroke for the application — known as the “80% Rule”. This will ensure additional safety factor and extend the product performance over time.



Technical dimensions

TONNE	50	68	91	136	181
# OF BASE MOUNTING HOLES	4	4	4	4	4
BASE THREAD SIZE	M12X1.75 – 6H	M12X1.75 – 6H	M16X1.5 – 6H	M16X1.5 – 6H	M20X1.5 – 6H
BASE THREAD DEPTH (MM)	18.0	18.0	15.7	22.9	30.5
BASE MOUNTING DIAMETER (MM)	77.0	93.0	101.6	130.0	145.3
ORIENTATION	Mounting hole orientation is not maintained to port location.				



Four base mounting holes are 45° apart—standard on all models.

Ordering information: RGL Series 50-181 Tonne

Tonne (tonne)	Stroke (mm)	Order No.	A	B	C	F	H	K	T	Bore Dia. (mm)	Cyl. Eff. Area (Adv.) (sq. cm)	Oil Cap. (cu. cm)	Internal Press at Cap. (bar)	Weight w/o Oil (kg)
			Ret. Height (mm)	Ext. Height (mm)	Out. Dia. (mm)	Base to Port (mm)	Piston Rod Dia. (mm)	Swivel Cap Protrusion (mm)	Nut Thickness (mm)					
50	50.8	RGL552	197.61	248.41	131.06	22.10	69.85	13.46	20.83	95.25	71.25	361.97	687	17.6
	101.6	RGL554	248.41	350.01	131.06	22.10	69.85	13.46	46.23	95.25	71.25	723.94	687	21.6
	152.4	RGL556	299.21	451.61	131.06	22.10	69.85	13.46	71.63	95.25	71.25	1085.91	687	25.5
	203.2	RGL558	350.01	553.21	131.06	22.10	69.85	13.46	97.03	95.25	71.25	1447.87	687	29.5
	254	RGL5510	400.81	654.81	131.06	22.10	69.85	13.46	122.43	95.25	71.25	1809.84	687	33.5
	304.8	RGL5512	451.61	756.41	131.06	22.10	69.85	13.46	147.83	95.25	71.25	2171.81	687	37.4
68	50.8	RGL752	208.79	259.59	146.81	22.86	79.38	14.22	24.89	111.13	96.98	492.68	688	23.3
	101.6	RGL754	259.59	361.19	146.81	22.86	79.38	14.22	50.29	111.13	96.98	985.36	688	28.0
	152.4	RGL756	310.39	462.79	146.81	22.86	79.38	14.22	75.69	111.13	96.98	1478.04	688	32.7
	203.2	RGL758	361.19	564.39	146.81	22.86	79.38	14.22	101.09	111.13	96.98	1970.72	688	37.5
	254	RGL7510	411.99	665.99	146.81	22.86	79.38	14.22	126.49	111.13	96.98	2463.40	688	42.3
	304.8	RGL7512	462.79	767.59	146.81	22.86	79.38	14.22	151.89	111.13	96.98	2956.08	688	47.0
91	50.8	RGL1002	220.73	271.53	165.86	23.88	95.25	18.80	27.43	130.18	133.09	676.08	668	30.9
	101.6	RGL1004	271.53	373.13	165.86	23.88	95.25	18.80	52.83	130.18	133.09	1352.15	668	37.0
	152.4	RGL1006	322.33	474.73	165.86	23.88	95.25	18.80	78.23	130.18	133.09	2028.23	668	43.0
	203.2	RGL1008	373.13	576.33	165.86	23.88	95.25	18.80	103.63	130.18	133.09	2704.31	668	48.9
	254	RGL10010	423.93	677.93	165.86	23.88	95.25	18.80	129.03	130.18	133.09	3380.38	668	54.9
	304.8	RGL10012	474.73	779.53	165.86	23.88	95.25	18.80	154.43	130.18	133.09	4056.46	668	60.9
136	50.8	RGL1502	243.84	294.64	196.85	31.24	114.30	18.29	34.04	158.75	197.93	1005.47	674	48.8
	101.6	RGL1504	294.64	396.24	196.85	31.24	114.30	18.29	59.44	158.75	197.93	2010.94	674	56.9
	152.4	RGL1506	345.44	497.84	196.85	31.24	114.30	18.29	84.84	158.75	197.93	3016.40	674	65.0
	203.2	RGL1508	396.24	599.44	196.85	31.24	114.30	18.29	110.24	158.75	197.93	4021.87	674	73.2
	254	RGL15010	447.04	701.04	196.85	31.24	114.30	18.29	135.64	158.75	197.93	5027.34	674	81.4
	304.8	RGL15012	497.84	802.64	196.85	31.24	114.30	18.29	161.04	158.75	197.93	6032.81	674	89.5
181	50.8	RGL2002	268.99	319.79	228.60	37.85	133.35	21.34	38.61	184.15	266.33	1352.96	668	73.2
	101.6	RGL2004	319.79	421.39	228.60	37.85	133.35	21.34	64.01	184.15	266.33	2705.91	668	84.3
	152.4	RGL2006	370.59	522.99	228.60	37.85	133.35	21.34	89.41	184.15	266.33	4058.87	668	95.4
	203.2	RGL2008	421.39	624.59	228.60	37.85	133.35	21.34	114.81	184.15	266.33	5411.83	668	106.5
	254	RGL20010	472.19	726.19	228.60	37.85	133.35	21.34	140.21	184.15	266.33	6764.79	668	117.6
	304.8	RGL20012	522.99	827.79	228.60	37.85	133.35	21.34	165.61	184.15	266.33	8117.74	668	128.7

Custom stroke lengths are available, contact your local Power Team Sales Office for details and availability.

RGL SERIES

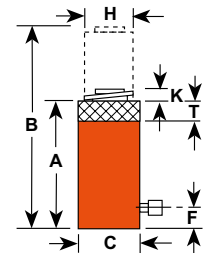
Model shown: RGL2506, RGL60010



Single Acting, Load Return Cylinders Tonnage Range: 227-544

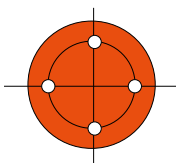
- Positive mechanical locking collar safely supports load for extended periods of time with hydraulic pressure released.
- Patented swivel cap provides concentrated load centering up to 5 degrees
- Sealing technology provides rod lubrication to reduce friction and wear.
- Optimized piston gland design resists side loading conditions corrosion and provides exceptional durability.
- Robust retaining ring withstands full load end stop and conforms with ANSI B30.1 standards
- Power-Tech nitrocarburization surface treatment inhibits corrosion and provides exceptional durability
- Base mounting holes standard on all models (they are not maintained to port location)

NOTICE: When selecting a hydraulic cylinder(s) capacity and stroke, Power Team recommends that you size to 80% of the maximum rated capacity and stroke for the application — known as the “80% Rule”. This will ensure additional safety factor and extend the product performance over time.



Technical dimensions

TONNE	227	272	363	454	544
# OF BASE MOUNTING HOLES	4	4	4	4	4
BASE THREAD SIZE	M24X3.0 – 6H	M24X3.0 – 6H	M30X3.5 – 6H	M30X3.5 – 6H	M33X2.0 – 6H
BASE THREAD DEPTH (MM)	37.0	37.0	45.7	38.1	49.5
BASE MOUNTING DIAMETER (MM.)	153.9	179.3	194.3	227.3	245.1
ORIENTATION	Mounting hole orientation is not maintained to port location.				



Four base mounting holes are 45° apart—standard on all models.

Ordering information: RGL Series 250-600 Tonne

Tonnage (tonne)	Stroke (mm)	Order No.	A	B	C	F	H	K	T	Bore Dia. (mm)	Cyl. Eff. Area (Adv.) (sq. cm)	Oil Cap. (cu. cm)	Internal Press at Cap. (bar)	Weight w/o Oil (kg)
			Ret. Height (mm)	Ext. Height (mm)	Out. Dia. (mm)	Base to Port (mm)	Piston Rod Dia. (mm)	Swivel Cap Protrusion (mm)	Nut Thickness (mm)					
227	50.8	RGL2502	298.20	349.00	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	107.7	1647.36
	101.6	RGL2504	349.00	450.60	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	122.4	3294.72
	152.4	RGL2506	399.80	552.20	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	137.1	4942.08
	203.2	RGL2508	450.60	653.80	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	151.8	6589.43
	254	RGL25010	501.40	755.40	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	166.6	8236.79
	304.8	RGL25012	552.20	857.00	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	181.3	9884.15
272	50.8	RGL3002	349.00	399.80	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	161.8	2084.94
	101.6	RGL3004	399.80	501.40	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	180.0	4169.88
	152.4	RGL3006	450.60	603.00	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	198.2	6254.81
	203.2	RGL3008	501.40	704.60	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	216.4	8339.75
	254	RGL30010	552.20	806.20	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	234.6	10424.69
	304.8	RGL30012	603.00	907.80	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	252.7	12509.63
363	50.8	RGL4002	396.75	447.55	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	253.7	2838.37
	101.6	RGL4004	447.55	549.15	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	278.2	5676.75
	152.4	RGL4006	498.35	650.75	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	302.8	8515.12
	203.2	RGL4008	549.15	752.35	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	327.3	11353.49
	254	RGL40010	599.95	853.95	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	351.9	14191.86
	304.8	RGL40012	650.75	955.55	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	376.4	17030.24
454	50.8	RGL5002	414.02	464.82	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	324.3	3404.11
	101.6	RGL5004	464.82	566.42	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	354.2	6808.22
	152.4	RGL5006	515.62	668.02	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	384.0	10212.33
	203.2	RGL5008	566.42	769.62	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	413.9	13616.45
	254	RGL50010	617.22	871.22	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	443.7	17020.56
	304.8	RGL50012	668.02	972.82	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	473.6	20424.67
544	50.8	RGL6002	432.05	482.85	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	389.4	4021.87
	101.6	RGL6004	482.85	584.45	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	425.6	8043.74
	152.4	RGL6006	533.65	686.05	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	461.7	12065.61
	203.2	RGL6008	584.45	787.65	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	497.9	16087.48
	254	RGL60010	635.25	889.25	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	534.1	20109.36
	304.8	RGL60012	686.05	990.85	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	570.2	24131.23

Custom stroke lengths are available, contact your local Power Team Sales Office for details and availability.

CUSTOMER SERVICE CENTERS

Rockford, Illinois USA
5885 11th Street
Rockford, IL 61109 USA
Tel: +1 800 541 1418
Fax: +1 800 288 7031
info.powerteam@spxflow.com

Gonzales, Louisiana USA
3141 S. Darla Avenue
Gonzales, LA 70737 USA
Tel: +1 225 774 0888
info@spxboltingsystems.com

Houston, Texas USA
3106 E Pasadena Freeway,
Pasadena, TX 77503 USA
Tel: +1 713 472 2500
info@spxboltingsystems.com

Corpus Christi, Texas USA
4930 Gemini Street,
Corpus Christi, TX 78405 USA
Tel: +1 361-445-3727
info@spxboltingsystems.com

Europe
Albert Thijsstraat 12
6471 WX Eygelshoven

The Netherlands
Tel: +31 45 567 8877
cs.emea@spxflow.com

India
Power Team Hydraulic Technologies
India Private Limited
Odhav, Ahmedabad - 382 415
Tel: +91 99099 85454
Fax: +91 97277 19950
ft.apac.ht@spxflow.com

South East Asia
Power Team Hydraulic Technologies
Singapore Pte. Ltd.
2 Bukit Batok Street 23,
#02-07 Bukit Batok Connection,
Singapore 659554
Tel: +65 6265 3343
singapore@spxboltingsystems.com

China
Hydraulic Technologies China Ltd.
No 666, Fengjin Road, Xidu Industrial
Park Fengxian District,
Shanghai 201401, China
Tel: +86 021 2208 5659

Fax: +86 21 2208 5682
china@spxboltingsystems.com

Australia
Hydraulic Technologies
Australia Pty Ltd,
211 Atlantic Drive, Keysborough,
Victoria 3173, Australia
Tel: +613 9589 9215
Fax: +61 02 9763 7888
ft.apac.ht@spxflow.com

Hydraulic Technologies reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information,