

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

SPX FLOW™ 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)

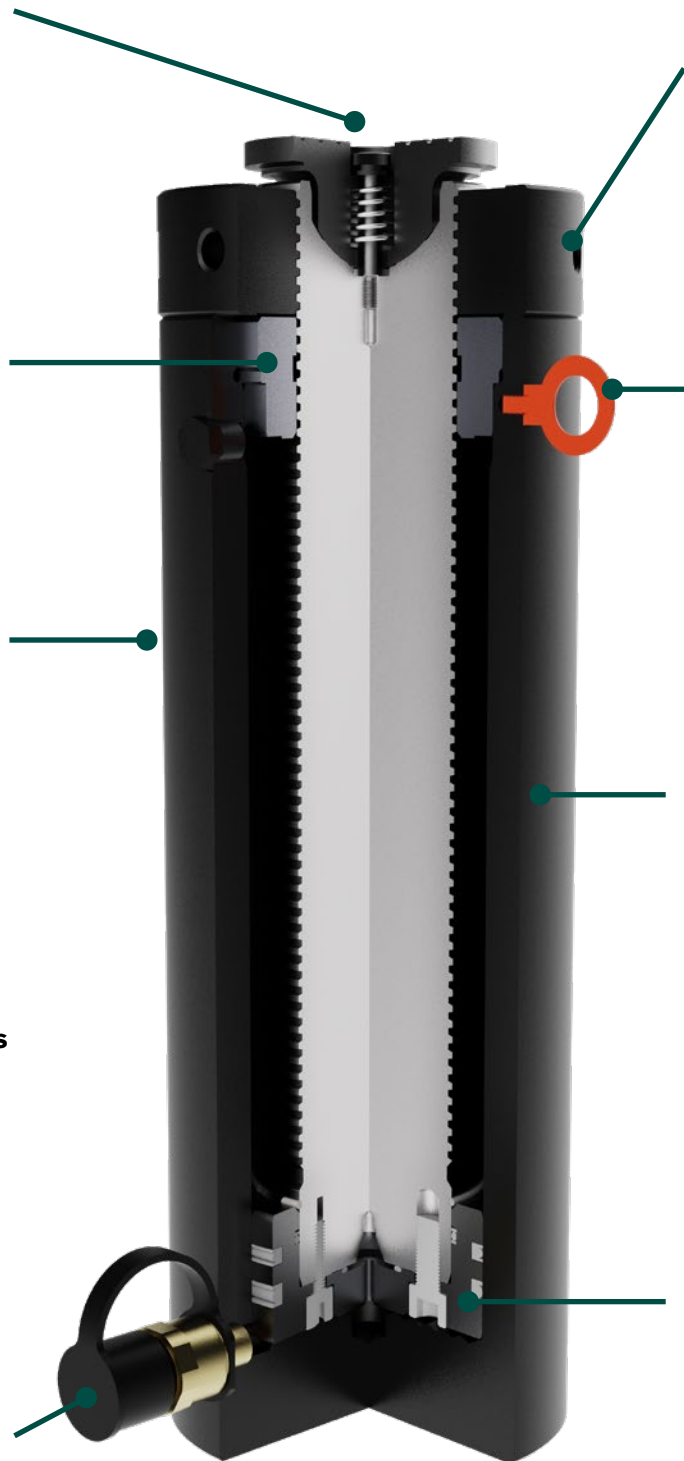
Design complies with AMSE/ ANSI B30.1 Safety Standard

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

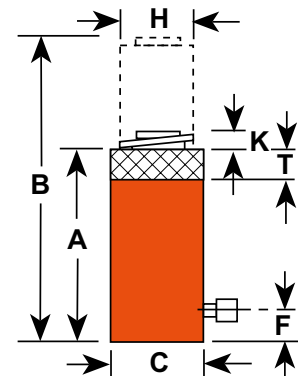
Model shown: RGL552



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

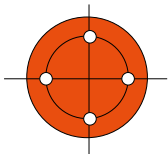
- **Positive mechanical locking collar** safely supports load for extended periods of time with hydraulic pressure released.
- **Patented swivel cap** provides concentrated load centering up to 5 degrees.
- **Sealing technology** provides rod lubrication to reduce friction and wear.
- **Robust retaining 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	Stroke	Order No.	A	B	C	F	H	K	T	Bore Dia.	Cyl. Eff. Area (Adv.)	Oil Cap.	Internal Press at Cap.	Weight w/o Oil
			Ret. Height	Ext. Height	Out. Dia.	Base to Port	Piston Rod Dia.	Swivel Cap Protru-sion	Nut Thick-ness					
(tonne)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(sq. cm)	(cu. cm)	(bar)	(kg)
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

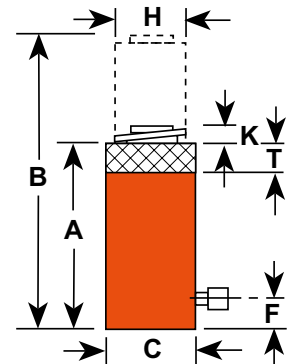
Model shown: RGL2506, RGL60010



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

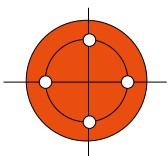
- **Positive mechanical locking collar** safely supports load for extended periods of time with hydraulic pressure released.
- **Patented swivel cap** provides concentrated load centering up to 5 degrees
- **Sealing technology** provides rod lubrication to reduce friction and wear.
- **Optimized piston 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	Stroke	Order No.	A	B	C	F	H	K	T	Bore Dia.	Cyl. Eff. Area (Adv.)	Oil Cap.	Internal Press at Cap.	Weight w/o Oil
			Ret. Height	Ext. Height	Out. Dia.	Base to Port	Piston Rod Dia.	Swivel Cap Protrusion	Nut Thickness					
(tonne)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(sq. cm)	(cu. cm)	(bar)	(kg)
227	50.8	RGL2502	1647.36	298.20	349.00	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	107.7
	101.6	RGL2504	3294.72	349.00	450.60	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	122.4
	152.4	RGL2506	4942.08	399.80	552.20	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	137.1
	203.2	RGL2508	6589.43	450.60	653.80	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	151.8
	254	RGL25010	8236.79	501.40	755.40	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	166.6
	304.8	RGL25012	9884.15	552.20	857.00	256.54	59.69	152.40	22.86	42.16	203.20	324.28	686	181.3
272	50.8	RGL3002	2084.94	349.00	399.80	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	161.8
	101.6	RGL3004	4169.88	399.80	501.40	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	180.0
	152.4	RGL3006	6254.81	450.60	603.00	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	198.2
	203.2	RGL3008	8339.75	501.40	704.60	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	216.4
	254	RGL30010	10424.69	552.20	806.20	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	234.6
	304.8	RGL30012	12509.63	603.00	907.80	289.56	62.99	165.10	26.42	82.30	228.60	410.42	650	252.7
363	50.8	RGL4002	2838.37	396.75	447.55	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	253.7
	101.6	RGL4004	5676.75	447.55	549.15	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	278.2
	152.4	RGL4006	8515.12	498.35	650.75	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	302.8
	203.2	RGL4008	11353.49	549.15	752.35	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	327.3
	254	RGL40010	14191.86	599.95	853.95	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	351.9
	304.8	RGL40012	17030.24	650.75	955.55	337.82	70.36	190.50	30.48	96.52	266.73	558.73	637	376.4
454	50.8	RGL5002	3404.11	414.02	464.82	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	324.3
	101.6	RGL5004	6808.22	464.82	566.42	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	354.2
	152.4	RGL5006	10212.33	515.62	668.02	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	384.0
	203.2	RGL5008	13616.45	566.42	769.62	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	413.9
	254	RGL50010	17020.56	617.22	871.22	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	443.7
	304.8	RGL50012	20424.67	668.02	972.82	374.65	73.66	203.20	33.27	108.20	292.10	670.10	664	473.6
544	50.8	RGL6002	4021.87	432.05	482.85	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	389.4
	101.6	RGL6004	8043.74	482.85	584.45	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	425.6
	152.4	RGL6006	12065.61	533.65	686.05	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	461.7
	203.2	RGL6008	16087.48	584.45	787.65	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	497.9
	254	RGL60010	20109.36	635.25	889.25	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	534.1
	304.8	RGL60012	24131.23	686.05	990.85	406.40	76.71	228.60	36.07	113.28	317.50	791.71	674	570.2

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



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For more information, visit www.spxflow.com/powerteam

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