

**G**

OSP-P

P1X

P1Z

RC

GDL

**Contents**

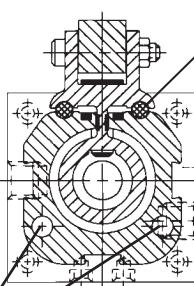
Features .....	G168	Intermediate Supports .....	G174-G175
Ordering Information.....	G169	25mm & 32mm Bore Dimensions.....	G176-G177
Specifications, Weights.....	G170	40mm & 63mm Bore Dimensions.....	G178-G179
Force Data.....	G170	50mm Bore Dimensions .....	G180-G181
Load and Moment Data .....	G171	Inverted Carriage Mounting Styles .....	G182-G183
Cushion Data.....	G172	Sensors .....	G184
Porting Configurations/Cylinder Selection .....	G173	Service Kits .....	G184

**Band Wipers:** The wiper cleans and reseats the upper band, keeping dirt and contaminants from the sealing area of the cylinder. The wiper assembly also cleans the path of the Delrin® support rods ensuring the piston carriage travels smoothly.

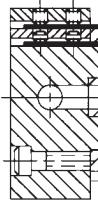
#### Piston Carriage Supports

Delrin® rods support and guide carriage loads (not available in 25mm bore). This unique design transfers the loading from the piston to the support rods and increases seal life. The negative effects of moderate side loading are minimized.

VIEW A-A  
Position 1



Pos.  
2



#### Self-Checking Cushion Seals

Adjustable cushions, supplied as standard, decelerate piston smoothly at end of stroke.

Position 3

#### Transfer Tube

The standard RC Series cylinder features a transfer tube which allows air to be directed to both sides of the piston from one end of the cylinder. Long tubing or hose runs can be eliminated. When double-porting is required for faster piston travel, an optional end cap design is available.

#### Piston Seals

Cylinder can be operated without the addition of lubrication. Seals ride a thin film of Teflon® impregnated lubricant for smoother piston travel and extended seal life.

#### Bearing Strips

Located on the side of the piston carriage, the bearing strips slide along the slot in the cylinder tube. They reduce the effects of side loads on piston wear and cylinder life.

#### Retained Cushion Adjusting Screws

The captive screw increases safety during machine operation and maintenance. It cannot be accidentally backed out too far—cushion adjustment screw "blowout" is prevented.

#### Magnetic Piston

An optional magnetic piston, with reed or solid state sensors, provides piston position sensing. The sensor assembly is dovetail mounted; offering many sensor locations for desired feedback without the expensive and cumbersome, add-on track mounted sensors.

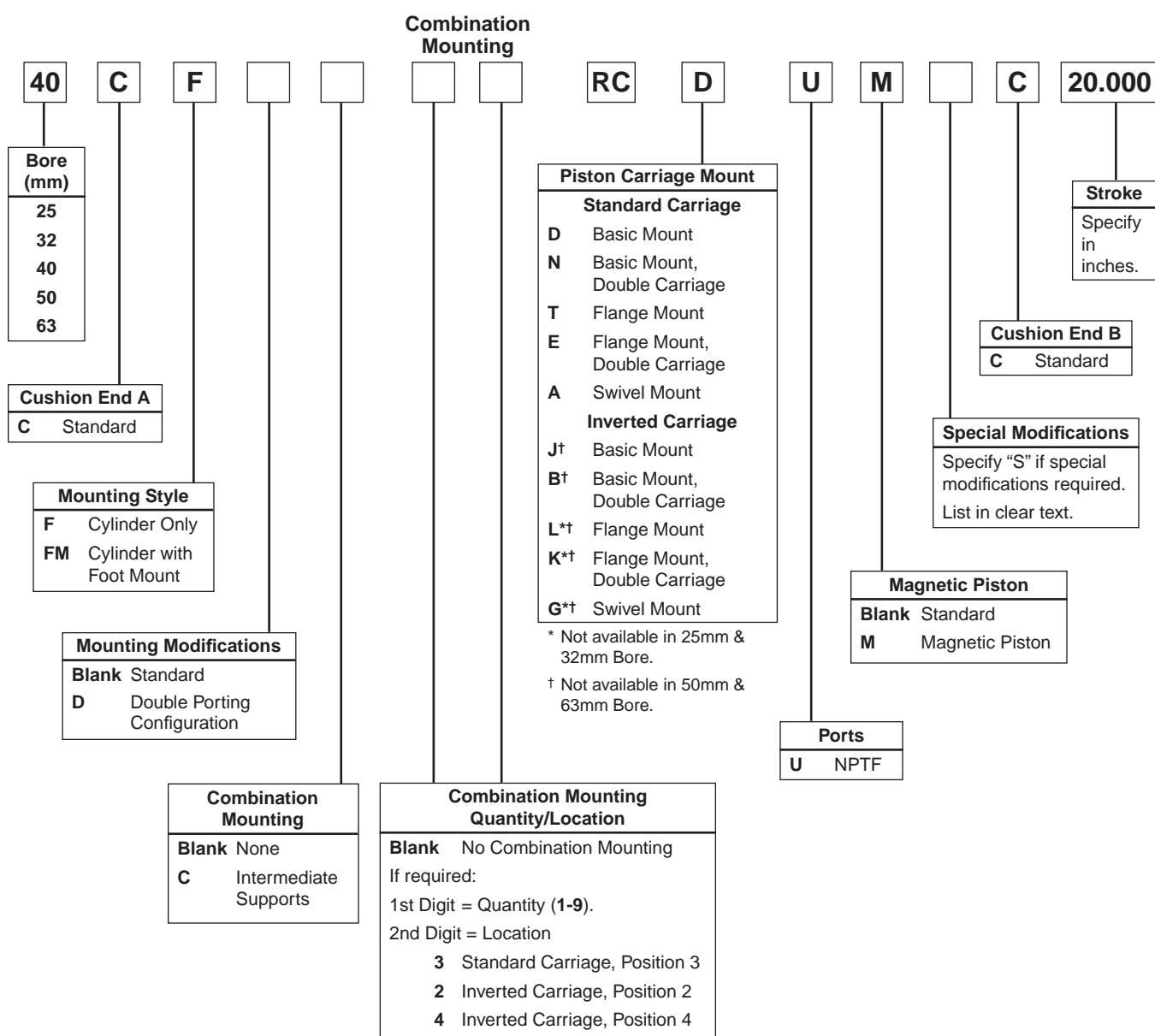
#### Integral Mounting Holes

Two tapped holes on the bottom surface and four tapped holes on the face of each end cap add to mounting possibilities. The cylinder can be installed without the addition of any accessories. If needed, the optional foot mounts can be used.

#### Nylon Piston Wear Bands

Nylon piston bearings increase cylinder life and load bearing capacity by the elimination of metal-to-metal contact. Friction resistance characteristics are also enhanced.

## Model Code



For sensor specifications and part numbers, please refer to the Electronic Sensors section.

G

OSP-P

P1X  
P1Z

RC

GDL

**Specifications**

- Anodized Aluminum End Caps, Body, Piston Carriage
- Stainless Steel Sealing Band
- Buna-N Piston Seals
- Retained Adjustable Cushions
- Integral Mounting Holes

- Transfer Port (optional)
- Nominal Pressure Rating 115 PSI
- Standard Operating Temperature -10°F to 165°F
- Strokes Available Up to 24 ft.
- Standard Fluid: Filtered, Lubricated or Non-Lubricated Air

**Weights**

Bore	Base Weight (lb) by Mounting Style							Weight per Inch Stroke (lb)
	D,T,A	N,E	J	B	L	K	G	
25mm	2.5	3.7	3.1	4.8	N/A	N/A	N/A	0.20
32mm	5.4	7.8	6.4	9.8	N/A	N/A	N/A	0.25
40mm	7.5	11.4	9.3	15.2	9.3	15.2	9.3	0.30
50mm	11.1	15.6	14.1	21.6	14.1	21.6	14.1	0.48
63mm	19.8	27.4	23.6	35.0	23.6	35.0	23.6	0.65

**Force Data**

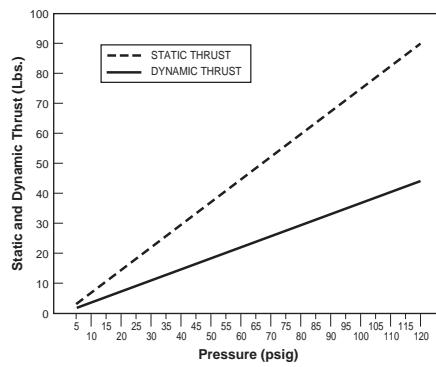
To determine the thrust available from your RC Series cylinder, enter the graph along the base at the pressure to be supplied at the inlet of the cylinder. Project vertically to the appropriate thrust line. The corresponding value on the left axis is the available force from the cylinder. Static thrust values indicate the force available when the cylinder is not in motion.

**(Note:** Rodless cylinders are not recommended for load holding applications. If used in this type of application a continuous pressure supply must be maintained).

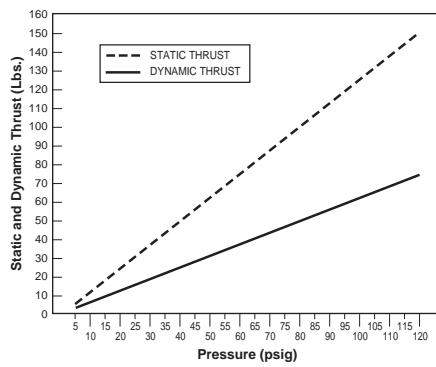
Dynamic thrust values indicate the maximum recommended load capacity for a cylinder in motion. In a dynamic condition, there is pressure on the back side of the piston (dependent upon the plumbing and valving used in the system) which must be overcome in addition to moving a load. These factors, coupled with the compressibility of air and cylinder friction, result in dynamic thrust being a percentage of static thrust. This graph assumes average conditions relative to air line sizes, system layout, component sizes, friction, etc.

The resulting dynamic thrust is approximately 50% of corresponding static values.

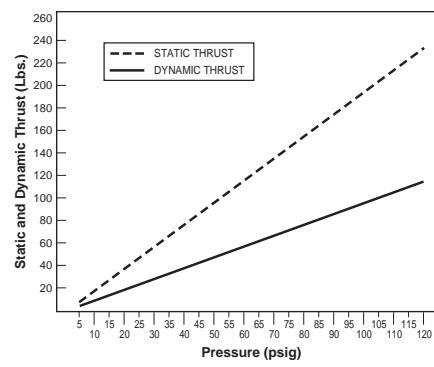
**Force at Various Pressures**  
Thrust Developed (25 mm Bore)



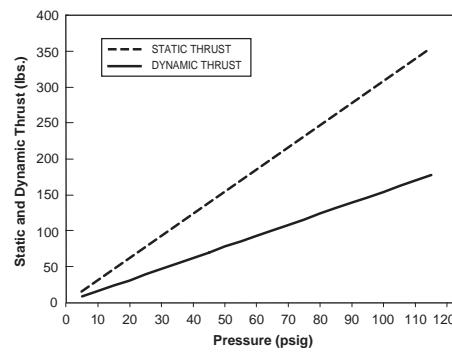
**Force at Various Pressures**  
Thrust Developed (32 mm Bore)



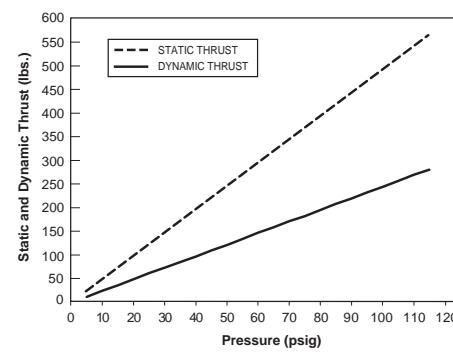
**Force at Various Pressures**  
Thrust Developed (40 mm Bore)



**Force at Various Pressures**  
Thrust Developed (50 mm Bore)



**Force at Various Pressures**  
Thrust Developed (63 mm Bore)



Application of Parker RC Series Cylinders requires that external loading forces be considered. Exceeding design stresses by overloading the cylinders may affect the construction integrity and operation of the cylinder. Shown below are various loading characteristics inherent to rodless cylinder applications and RC Series load capacities. Load and Moment Data apply to both standard and inverted piston carriage construction. Each application should be within the limits for the appropriate bore size. Exceeding these boundaries can result in premature cylinder wear and/or failure of the cylinder.

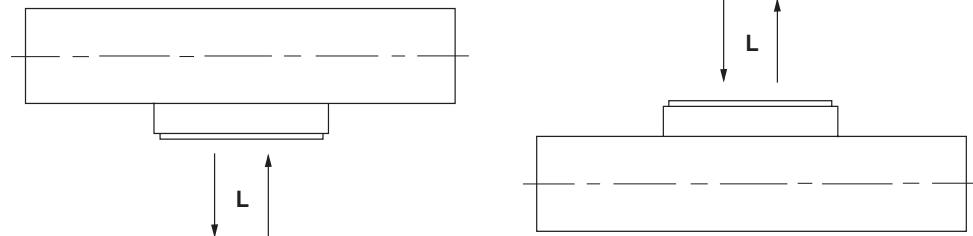
**CAUTION**

The force of deceleration, especially if a large mass is attached to the carriage, should be considered when calculating loads to be carried by the rodless cylinder. A large mass, in conjunction with a high deceleration force, can cause damage to the cylinder and/or the loss of control of the load. Either can result in equipment damage and danger to nearby personnel.

High deceleration forces may occur, but are not limited to the initial set-up of a machine. To minimize the potential danger, the following steps are suggested in addition to normal set-up procedures.

- A. The rodless cylinder should be plumbed with flow controls in a "meter out" mode.
- B. 1. Open the cushion needle valve adjustment screw 1/4 of a turn from completely closed.  
2. Open the flow control valves 1/2 of a turn from completely closed.
- C. Cycle the cylinder.
- D. To adjust the speed of the cylinder, slowly open the flow control valves. To adjust the cushion, slowly adjust the cushion needle valve screw.
- E. Repeat the procedure until the required piston velocity and cushion performance is achieved.

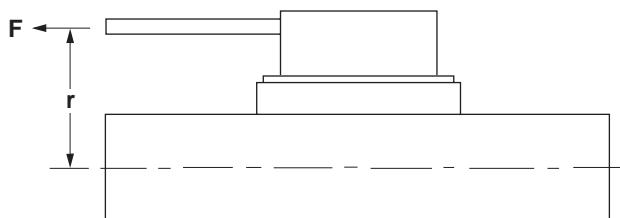
### Maximum Load – L



### Maximum Bending Moment – M

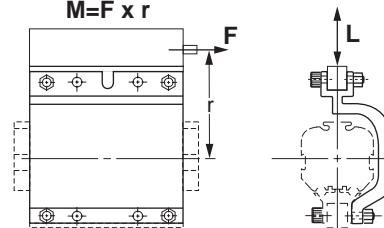
$$M = F \times r$$

Standard Carriage Mount

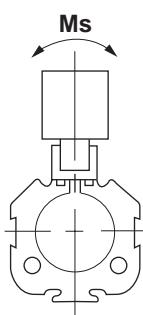


$$M = F \times r$$

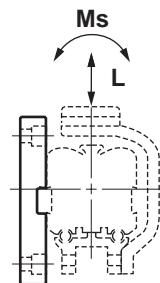
Inverted Carriage Mount



### Maximum Bending Moment – Ms

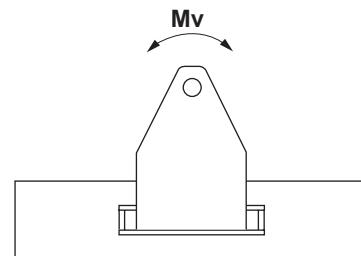


$$\text{*Intermediate Mount Inverted Carriage}$$



\*NOTE: Intermediate Mount Inverted Piston Load and Moment Data (see preceding page).

### Maximum Torsional Moment – Mv



Top View

Bore Size	Maximum Bending Moment				Maximum Torsion Stress		Max Load (L)		
	Standard Carriage		Double Carriage		Inverted Carriage	Standard Carriage	Double Carriage	Standard/Double	Inverted
	M lbs-ft	Ms lbs-ft	M lbs-ft	Ms lbs-ft	M lbs-ft	Mv lbs-ft	Mv lbs-ft	lbs	lbs
25	5.5	.38	14	0.8	5.5	1.2	1.9	33	9
32	13.3	1.5	30	3	13.3	5	25	58	29
40	22	1.5	50	3	22	5	15	85	33
50	43	4	85	8	42.5	13	61	135	72
63	74	4.8	148	9.5	74	14.5	67	185	96

G

OSP-P

P1X  
P1Z

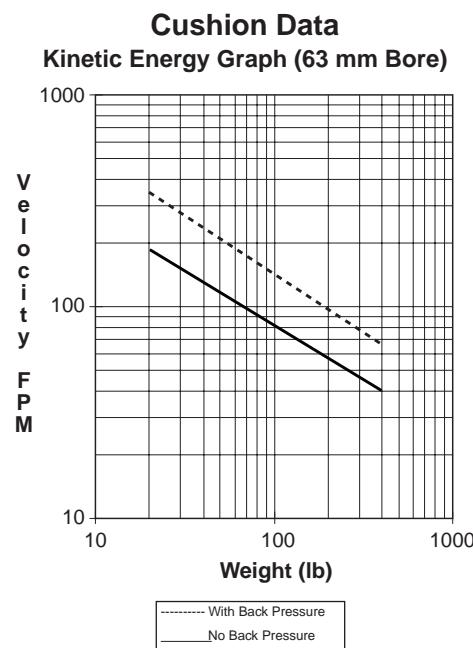
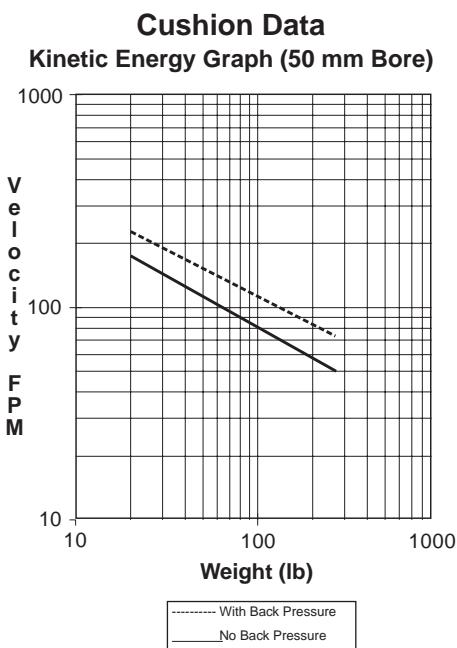
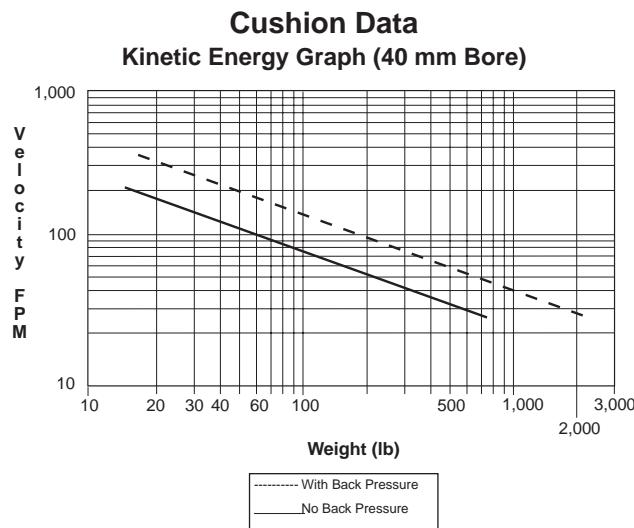
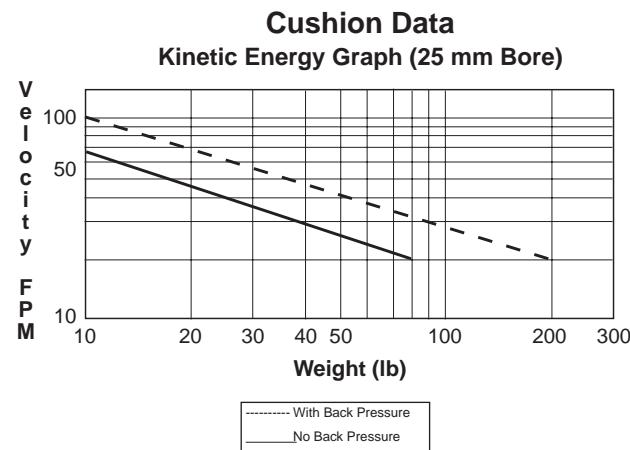
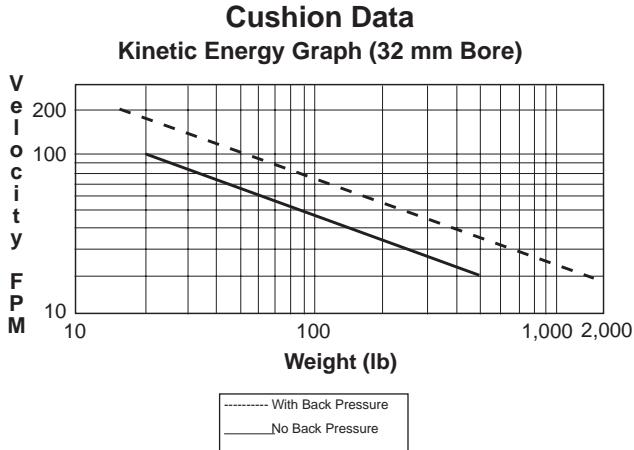
RC

GDL

## Cushion Data

Check the graph at right to determine whether a cylinder will adequately stop a load without damage to the cylinder. To determine the weight of the load and the maximum speed of the piston carriage, enter the graph at the base and project vertically to the required speed. This point of intersection should fall below the appropriate back pressure line.

**G**

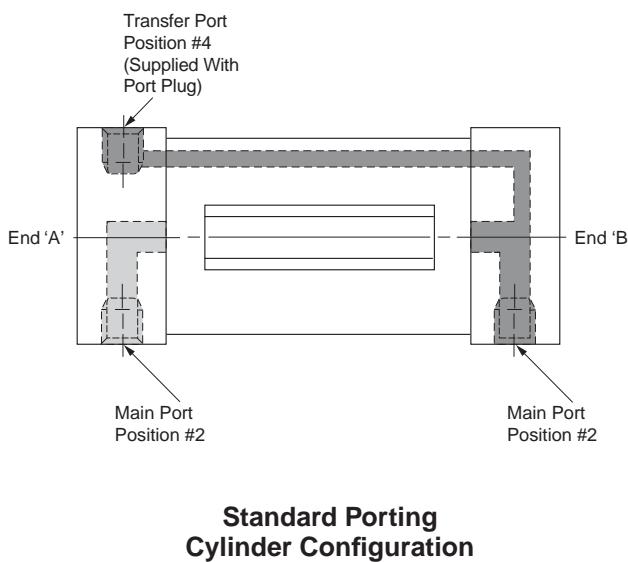


## Porting Configurations

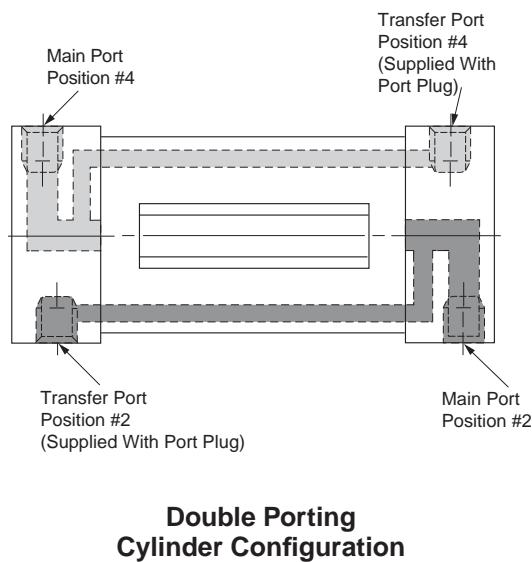
The RC Series cylinder is available in two porting/end cap configurations. In the standard configuration, End A is at your left when looking at the cylinder and viewing both ports. Looking at the face of the cap on End A with the tube slot at the top, position 1 is on top, with 2, 3, and 4 continuing in a clockwise direction. With the standard porting configuration, air can be directed to and exhausted from the "End A" side of the piston by using port #2 on "End A". Air can be directed to and exhausted from the "End B" side of the piston by using either or both ports #2 on "End B" or #4 on "End A".

Bore	Main	Transfer
25mm	1/8" NPTF	1/8" NPTF
32mm	1/4" NPTF	1/8" NPTF
40mm	1/4" NPTF	1/4" NPTF
50mm	3/8" NPTF	1/4" NPTF
63mm	3/8" NPTF	3/8" NPTF

Top View



Top View



The double porting configuration has the same end caps on both sides. With the double porting configuration, each side of the piston can be fed and exhausted by two ports as explained

in the example above describing the "End B" side of the piston. Main pressure ports are located on opposite sides of the cylinder.

## Cylinder Selection

### How to Select Your Parker RC Series Cylinder

1. Consult Force Chart to determine the bore required.
2. Cushions are standard on the RC Series cylinder. Check the cushion data chart to verify that the cushions are sufficient to decelerate the load. If not, external means of deceleration must be considered.
3. Choose the cylinder mounting style and piston carriage.
4. For cylinders requiring sensors, configure sensor code for sensors required.
5. Determine if intermediate supports are necessary. For cylinders with the standard piston carriage, intermediate supports will be supplied in position #3 only. If the inverted piston carriage is used, select position #2 or position #4. Other intermediate support positions are available as a special order.
6. Consult the porting configuration diagrams for an illustration of available flow characteristics. Choose between the standard porting and the double porting configuration.

G

OSP-P

P1X

P1Z

RC

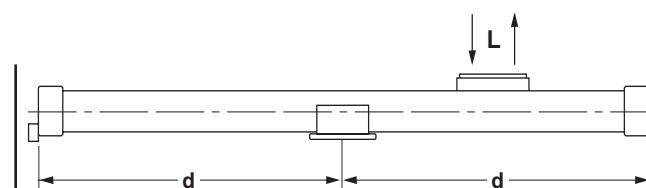
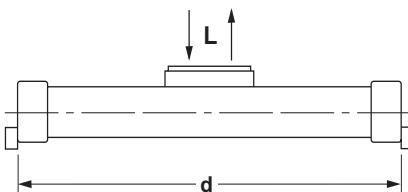
GDL

## Placing of Supports

A main advantage of the Parker RC Series air cylinder is its ability to act as its own support member as it spans the length of the carriage travel. The cylinder body does not require support over its entire stroke.

In the example below, a cylinder with an end to end dimension of "d", and with a load "L" can span a distance of "d" with no

intermediate support required. If the stroke of the cylinder is in excess of distance "d" or if Load "L" increases even if "d" remains constant, an intermediate support member must be placed so that the distance "d" is not exceeded for the corresponding Load (L).

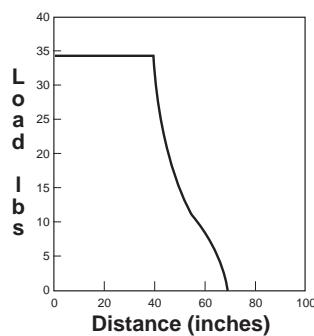


Parker RC Series cylinders can be fitted with intermediate supports that attach to dovetail mounts along the side of the cylinder. Consult the charts below to determine if intermediate supports are required on your cylinder. Points along the curve indicate the maximum distance allowed between supports for a corresponding load (L).

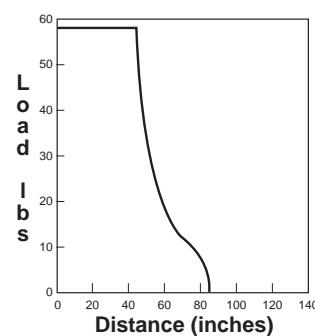
Intermediate supports are designed for use with the orientation shown below. For an application with any other orientation, consult factory.

G

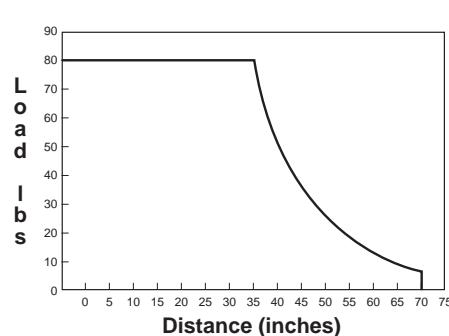
**Intermediate Support  
Loading Conditions (25 mm Bore)**



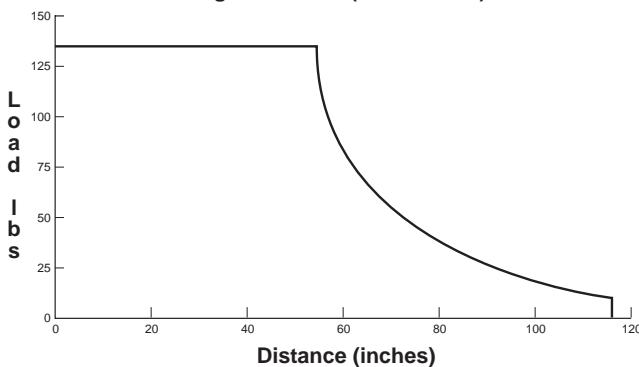
**Intermediate Support  
Loading Conditions (32 mm Bore)**



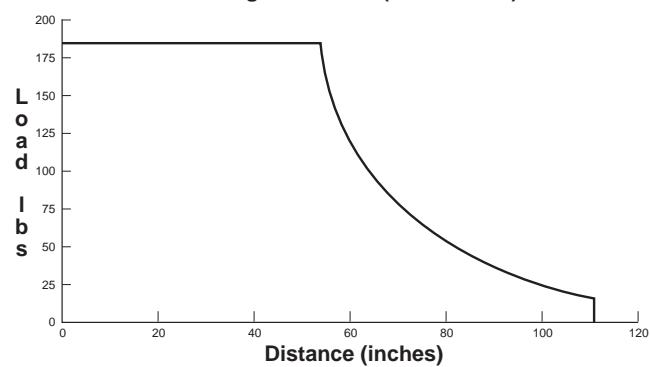
**Intermediate Support  
Loading Conditions (40 mm Bore)**



**Intermediate Support  
Loading Conditions (50 mm Bore)**

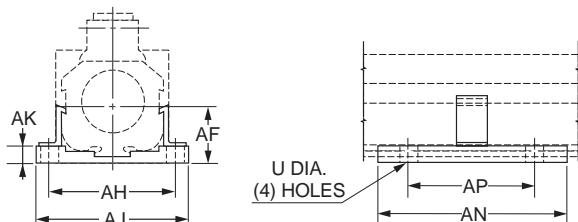


**Intermediate Support  
Loading Conditions (63 mm Bore)**

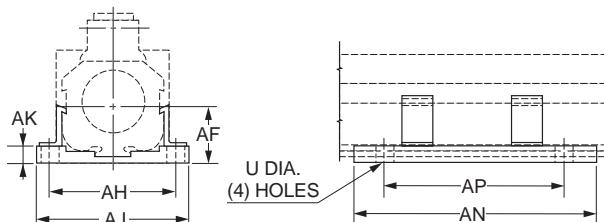


## Intermediate Support

25mm & 32mm Bore Size



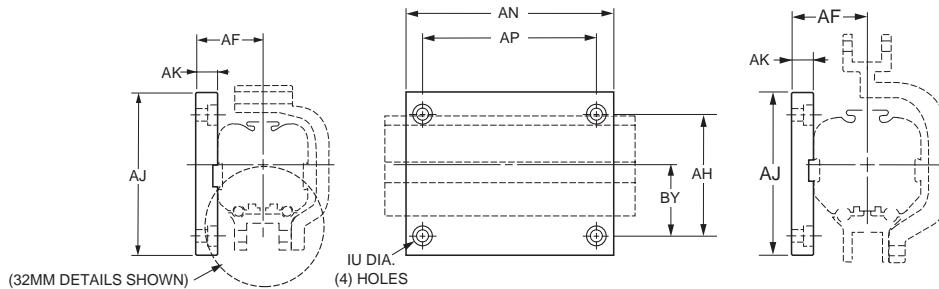
40mm, 50mm & 63mm Bore Size



Bore	Unit	AF	AH	AJ	AK	AN	AP	U
25mm	in.	0.94	2.38	3.00	0.24	2.00	1.25	0.22
	mm	23.9	60.5	76.2	6.10	50.8	31.8	5.59
32mm	in.	1.43	2.69	3.38	0.46	2.50	1.75	0.22
	mm	36.3	68.3	85.9	11.7	63.5	44.5	5.59
40mm	in.	1.50	3.12	3.87	0.43	6.30	4.75	0.35
	mm	38	80	98	11	160	121	9
50mm	in.	2.01	3.63	4.38	0.57	6.25	4.75	0.35
	mm	51.1	92.2	111.3	14.5	158.8	120.7	8.9
63mm	in.	2.24	4.38	5.13	0.53	6.25	4.75	0.35
	mm	56.9	111.3	130.3	13.5	158.8	120.7	8.9

## Intermediate Supports Inverted Carriage Mounts

40mm, 50mm &  
63mm Bore Size



Bore	Unit	AF	AH	AJ	AK	AN	AP	BY	IU
25mm	in.	1.44	2.38	3.13	0.50	3.00	2.25	1.34	0.28
	mm	36.6	60.5	79.5	12.7	76.2	57.15	34	7.1
32mm	in.	1.55	2.88	3.75	0.50	5.00	4.25	1.65	0.28
	mm	39.37	73.2	95.25	12.7	127	107.95	41.91	7.1
40mm	in.	1.80	2.88	3.75	0.50	5.00	4.25	1.54	0.28
	mm	45.72	73.2	95.25	12.7	127	107.95	39.1	7.1
50mm	in.	2.01	3.75	4.75	0.5	5.13	4.25	1.86	0.35
	mm	51.1	95.3	120.6	12.7	130.3	107.9	47.2	8.9
63mm	in.	2.38	4.13	5.38	0.50	5.13	4.25	2.14	0.35
	mm	60.45	104.9	136.7	12.7	130.3	107.9	54.4	8.9

## Load & Moment Data for Intermediate Mount (Inverted Piston)\*

Bore	Maximum Bending Moment $M_s$ (ft-lbs)	Load (lbs)
25mm	0.38	33
32mm	1.5	58
40mm	1.5	85
50mm	4	108
63mm	4.8	108

\*See following page.

G

OSP-P

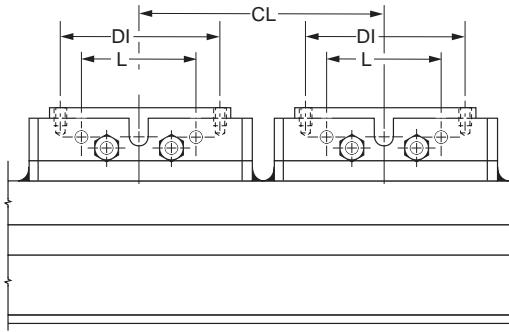
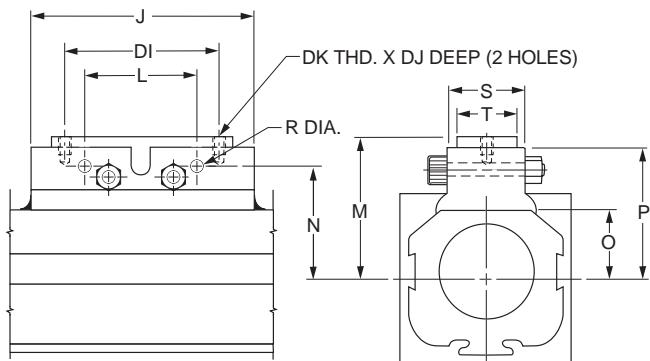
P1X  
P1Z

RC

GDL

**Basic Mount – Style D****Basic Mount Double Carriage – Style N**

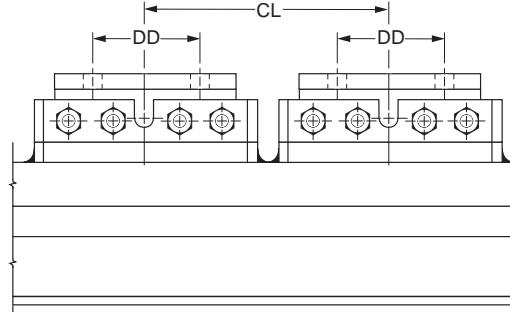
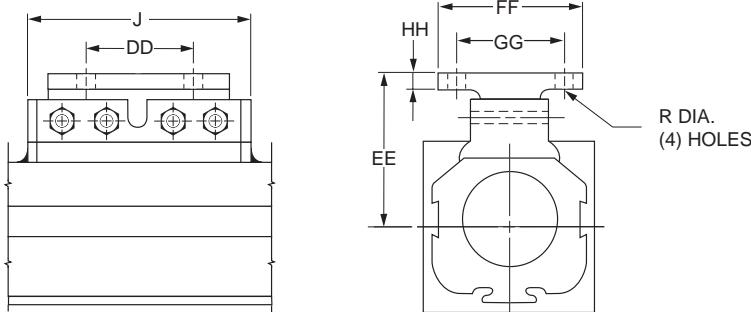
C347



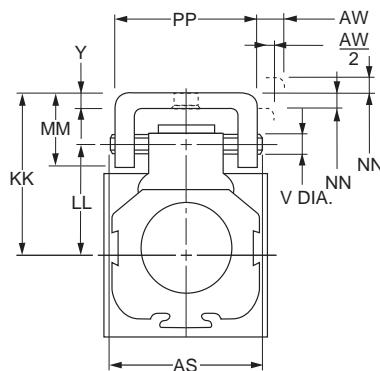
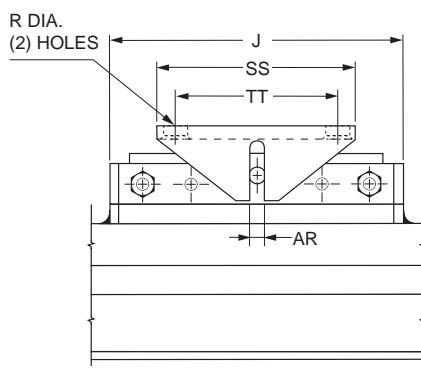
See Table 1 for dimensions

**Flange Mount – Style T****Flange Mount Double Carriage – Style E**

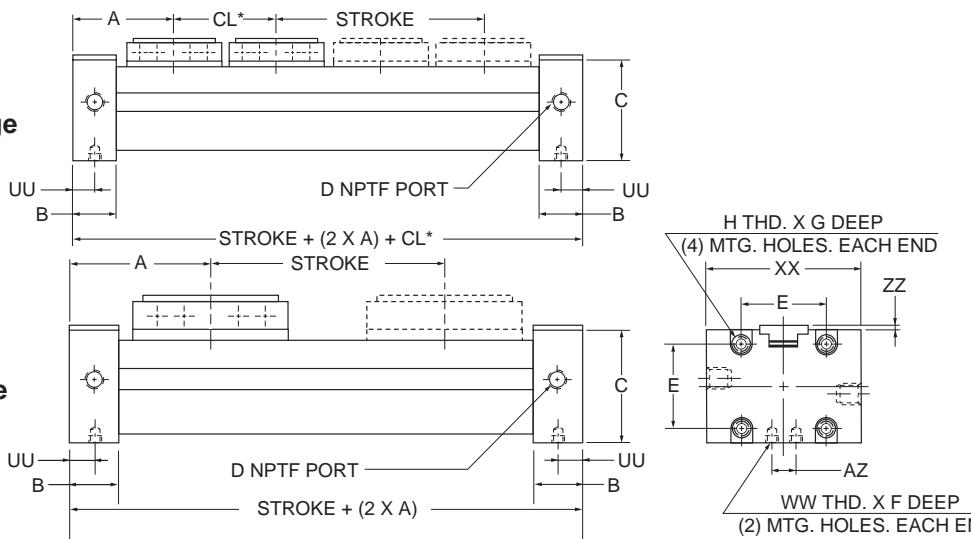
G



See Table 1 for dimensions

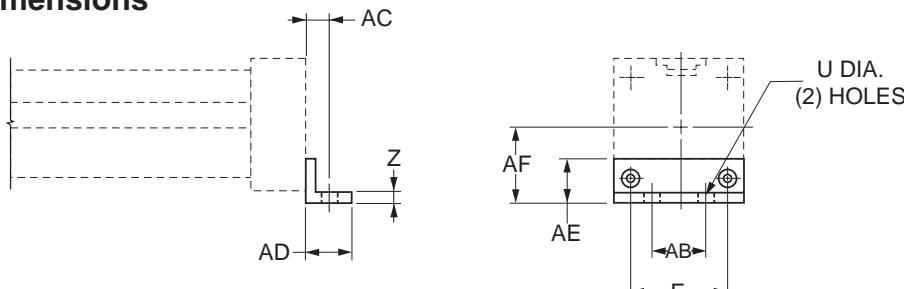
**Swivel Mount – Style A**

See Table 1 for dimensions

**Mount Dimensions****Double Carriage****Single Carriage**

See Table 2 for dimensions

\* For double carriage mounts, the piston carriages are not connected. The "CL" dimension is the minimum distance between the centerline of each carriage. The "CL" dimension can be increased, depending upon customer mounting. The effective stroke of the cylinder will be decreased by the same distance that the "CL" dimension is increased.

**Foot Mount Dimensions**

See Table 2 for dimensions

**Table 1 — Envelope and Mounting Dimensions**

Bore	Unit	GG	HH	KK	LL	MM	NN	PP	RR	SS	TT	AR	AS	AW	J	L
25 mm	in.	1.50	.19	2.05	1.50	.79	.10	1.46	—	1.25	.63	.20	1.65	.19	4.98	1.97
	mm	38.1	4.83	52.1	38.1	20.1	2.54	37.1	—	31.8	16.0	5.08	41.9	4.83	126.5	50.0
32 mm	in.	1.88	.19	2.60	1.89	1.18	.16	1.90	—	2.75	1.97	.32	2.28	.31	6.56	3.94
	mm	47.8	4.83	66.0	48.0	30.0	4.06	48.3	—	69.9	50.0	8.13	57.9	7.87	166.6	100.1

Bore	Unit	M	N	O	P	R	S	T	V	DD	DI	DJ	DK	EE	FF	Y
25mm	in.	1.50	1.30	0.70	1.50	0.22	1.02	0.59	0.31	3.00	3.15	0.312	#10-32	1.75	2.00	0.12
	mm	38.1	33.0	17.8	38.1	5.59	25.9	14.99	7.87	76.2	80	7.9	—	44.5	50.8	3.05
32mm	in.	1.89	1.57	0.97	1.89	0.28	1.26	0.72	0.47	4.50	4.73	0.50	1/4-20	2.20	2.50	1.16
	mm	48.0	39.9	24.6	48.0	7.11	32.0	18.3	12.0	114.3	120.14	12.7	—	55.9	63.5	4.06

**Table 2 — Envelope and Mounting Dimensions**

Bore	Unit	A	B	C	D	E	F	G	H	U	AB	AC	AD	AE	AF	AZ	UU	WW	XX	Z	ZZ	Min. CL	
25mm	in.	3.94	0.97	1.58	1/8"	NPTF	1.06	0.25	0.40	#10-32	0.22	1.06	0.63	0.87	0.71	0.94	0.38	0.56	#10-32	2.25	0.08	0.06	4.94
	mm	100.1	24.6	40.1	—	—	26.9	6.35	10.2	—	5.5	26.9	16.0	22.1	18.1	23.9	9.7	14.2	—	57.1	2.0	1.52	125.5
32mm	in.	4.92	1.00	2.09	1/4"	NPTF	1.42	0.19	0.40	#10-32	0.28	1.42	0.47	0.79	1.02	1.43	0.63	0.63	1/4-20	2.25	0.13	0.05	6.84
	mm	125.0	25.4	53.1	—	—	36.1	4.8	10.2	—	7.11	36.1	11.9	20.1	25.9	36.3	16.0	16.0	—	57.1	3.3	1.27	173.7

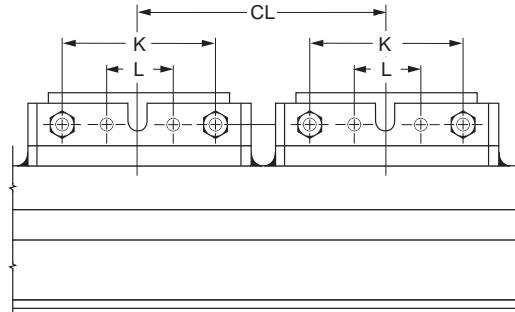
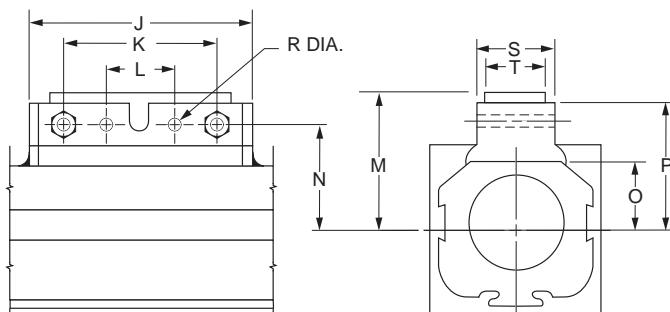
G

OSP-P

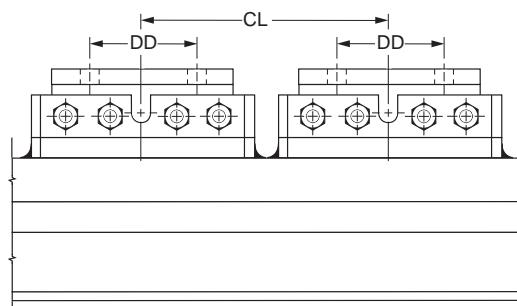
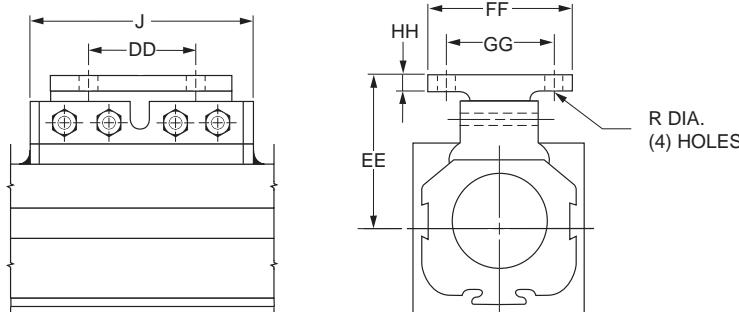
P1X

P1Z

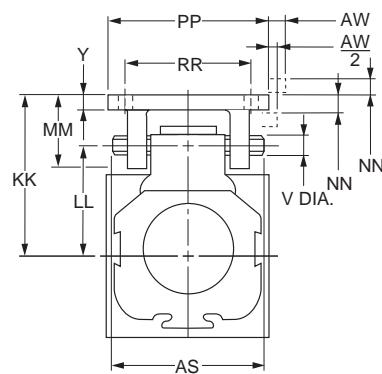
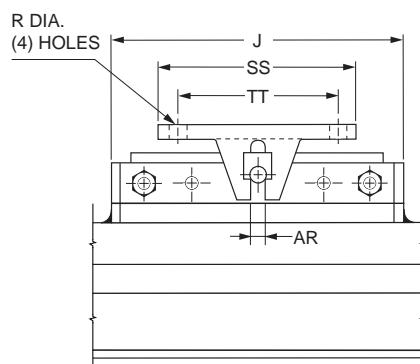
GDL

**Basic Mount – Style D****Basic Mount Long – Style N**

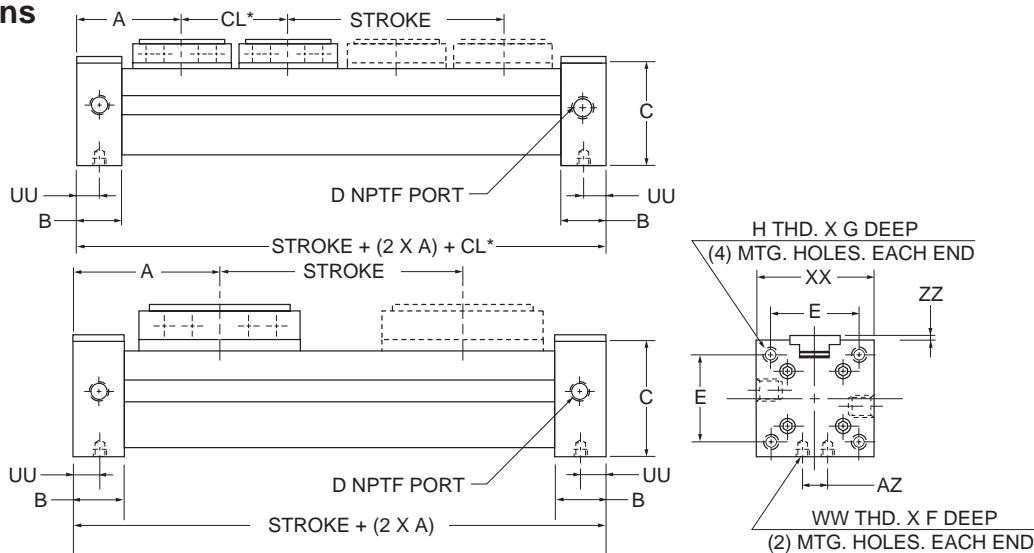
See Table 1 for dimensions

**Flange Mount – Style T****Flange Mount Long – Style E**

See Table 1 for dimensions

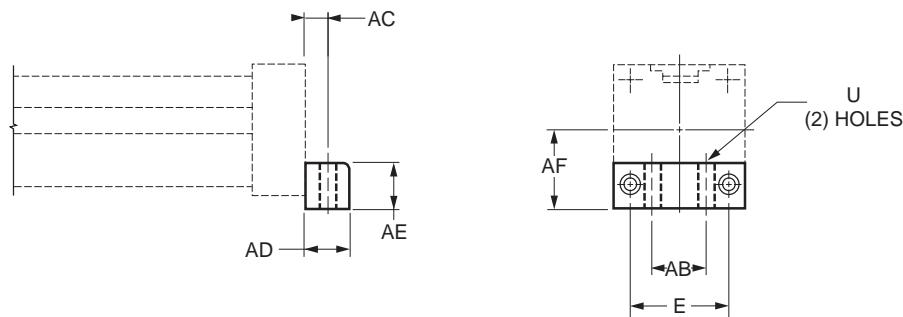
**Swivel Mount – Style A**

See Table 1 for dimensions

**Mount Dimensions****Double Carriage****Single Carriage**

See Table 2 for dimensions

\* For double carriage mounts, the piston carriages are not connected. The "CL" dimension is the minimum distance between the centerline of each carriage. The "CL" dimension can be increased, depending upon customer mounting. The effective stroke of the cylinder will be decreased by the same distance that the "CL" dimension is increased.

**Foot Mount Dimensions**

See Table 2 for dimensions

**Table 1. — Envelope and Mounting Dimensions**

Bore	Unit	GG	HH	KK	LL	MM	NN	PP	RR	SS	TT	AR	AS	AW	J
40mm	in.	1.77	0.24	2.95	2.00	1.50	.30	2.76	2.17	3.54	2.95	0.31	2.75	±30	6.16
	mm	45	6	75	51	38	8	70	55	90	75	8	70	±7.5	156
63mm	in.	2.36	0.28	3.87	2.81	1.72	.35	3.54	2.76	4.72	3.94	0.38	3.23	0.26	8.92
	mm	59.9	7.1	98.3	71.4	43.7	8.9	89.9	70.1	119.9	100.1	9.7	82.0	6.6	226.6

Bore	Unit	K	L	M	N	O	P	R	S	T	V	DD	EE	FF	W	Y
40mm	in.	4.33	2.17	2.40	1.93	1.13	2.27	0.28	1.10	0.71	0.47	3.15	2.60	2.36	1.93	0.24
	mm	110	55	61	49	28.8	57.6	7	28	18	12	80	66	60	49	6
63mm	in.	7.09	3.54	3.27	2.68	1.79	3.07	0.35	1.19	0.74	0.63	5.12	3.51	3.15	2.68	0.25
	mm	180.1	89.9	83.1	68.1	45.5	78.0	8.9	30.2	18.8	16.0	130.0	89.2	80.0	68.1	6.4

**Table 2. — Envelope and Mounting Dimensions**

Bore	Unit	A	B	C	D	E	F	G	H	U	AB	AC	AD	AE	AF	AZ	UU	WW	XX	CL	ZZ
40 mm	in.	5.91	1.18	2.83	1/4	2.13	0.19	0.50	1/4-	0.35	1.18	0.49	0.94	0.94	1350	0.63	0.59	1/4-	2.83	8.21	0.03
	mm	150	30	72	NPT	54	438	12.7	20	9	30	12.5	24	24	38	16	15	20	72	208.6	0.76
63 mm	in.	8.47	1.50	4.17	3/8	3.07	0.50	0.87	5/16-	0.41	1.89	0.59	1.18	1.58	2.24	0.63	0.75	5/16-	4.17	12.18	0.01
	mm	215.1	38.1	105.9	NPT	78	12.7	22.1	18	10.4	48	15.0	30	40.1	56.9	16	19.1	18	105.9	309.4	0.25

G

OSP-P

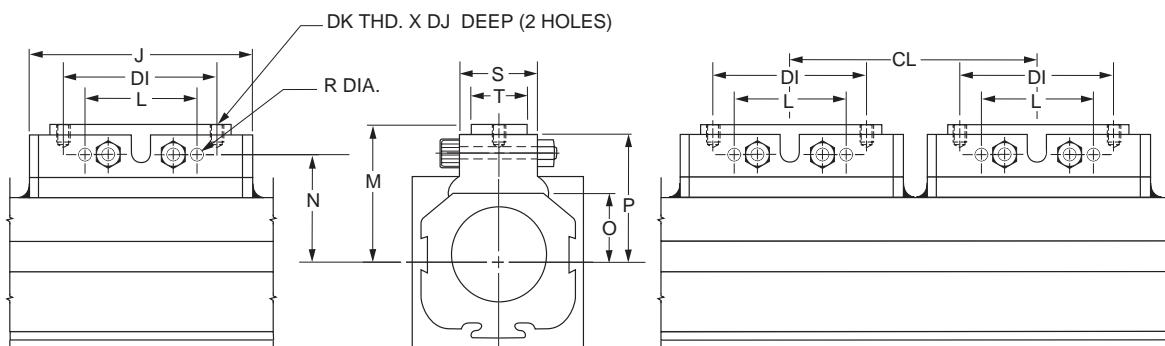
P1X

P1Z

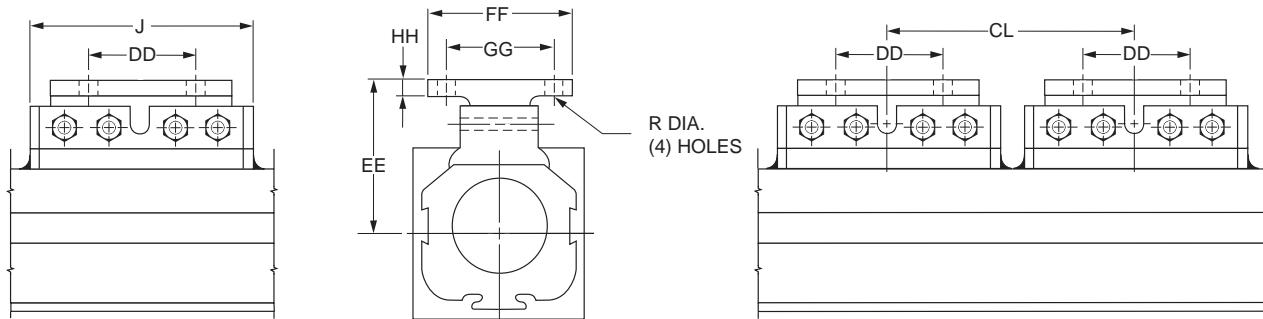
GDL

**Basic Mount – Style D****Basic Mount Double Carriage – Style N**

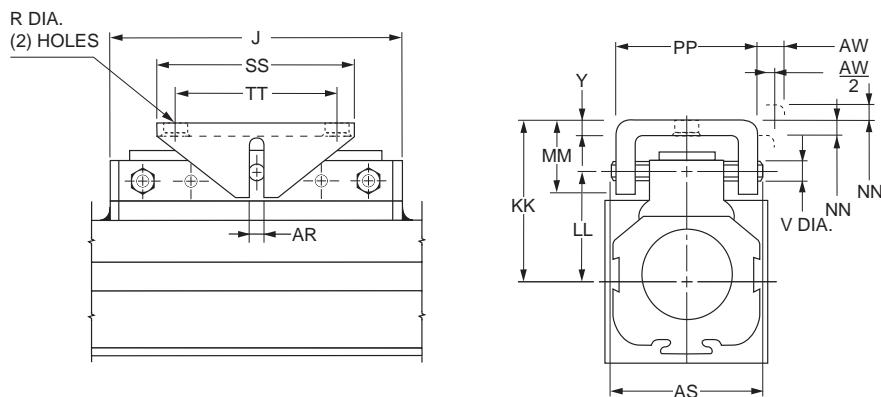
C347



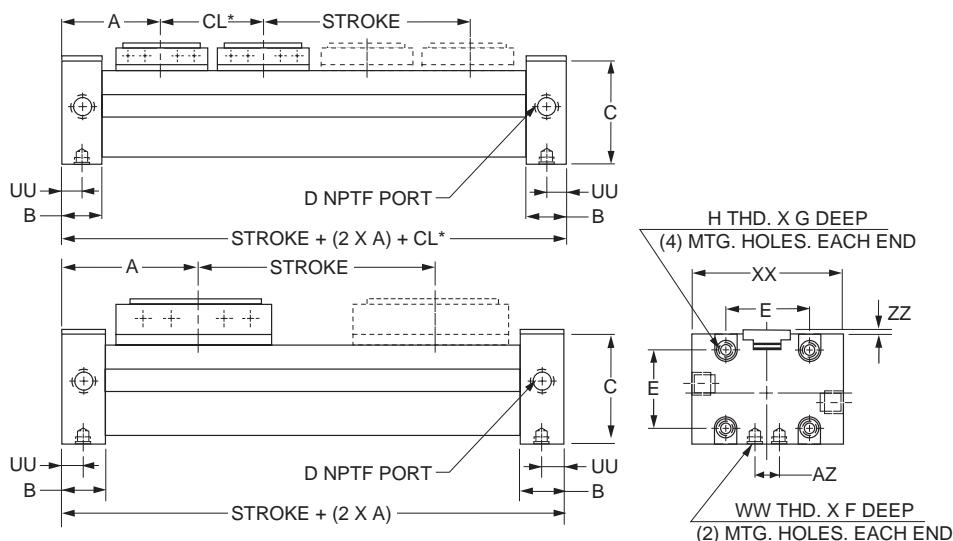
See Table 1 for dimensions

**Flange Mount – Style T****Flange Mount Double Carriage – Style E**

See Table 1 for dimensions

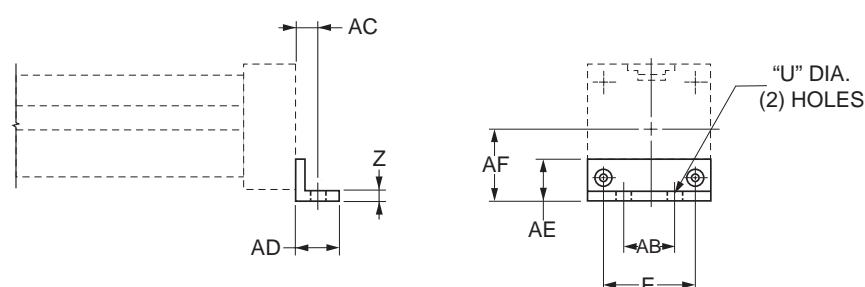
**Swivel Mount – Style A**

See Table 1 for dimensions

**Mount Dimensions****Double Carriage****Single Carriage**

See Table 2 for dimensions

\* For double carriage mounts, the piston carriages are not connected. The "CL" dimension is the minimum distance between the centerline of each carriage. The "CL" dimension can be increased, depending upon customer mounting. The effective stroke of the cylinder will be decreased by the same distance that the "CL" dimension is increased.

**Foot Mount Dimensions**

See Table 2 for dimensions

**Table 1.— Envelope and Mounting Dimensions**

Bore	Unit	GG	HH	KK	LL	MM	NN	PP	SS	TT	AR	AS	AW	J	L
50mm	inch	2.36	0.28	3.54	2.56	1.69	0.24	2.27	3.94	3.15	0.38	2.83	0.24	8.61	5.51
	mm	59.9	7.1	89.9	65.0	42.9	6.1	57.7	100.1	80.0	9.7	71.9	6.1	218.7	140.0

Bore	Unit	M	N	O	P	R	S	T	V	DD	DI	DJ	DK	EE	FF	Y
50mm	inch	2.56	2.17	1.41	2.56	0.35	1.34	0.74	0.63	5.12	6.30	0.69	5/16-18	3.02	3.15	0.19
	mm	65.0	55.1	35.8	65.0	8.9	34.0	18.8	16.0	130.0	160.0	17.48		76.7	80.0	4.8

**Table 2.— Envelope and Mounting Dimensions**

Bore	Unit	A	B	C	D	E	F	G	H	U	AB	AC	AD	AE	AF	AZ	UU	WW	XX	Z	ZZ	Min. CL
50 mm	inch	6.70	1.25	3.07	3/8	2.13	0.50	0.50	5/16-	0.35	2.13	0.71	1.10	1.34	2.01	0.63	0.63	5/16-	3.38	0.14	.16	9.9
	mm	170.1	31.75	77.97	NPT	54.1	12.7	12.7	18	8.89	54.1	18.0	27.9	34.0	51.1	16.0	16.0	18	85.9	3.6	3.96	251.5

G

OSP-P

P1X

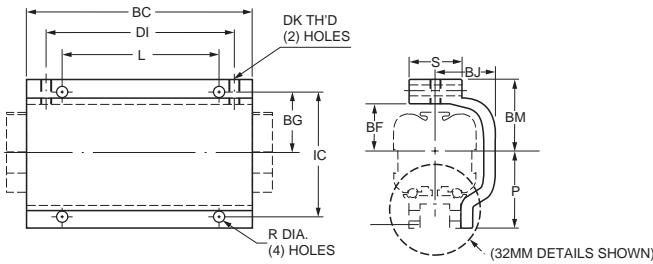
P1Z

RC

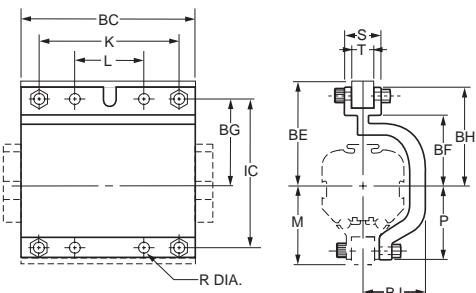
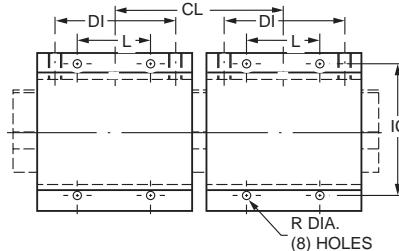
GDL

**Inverted Basic Mount – Style J**

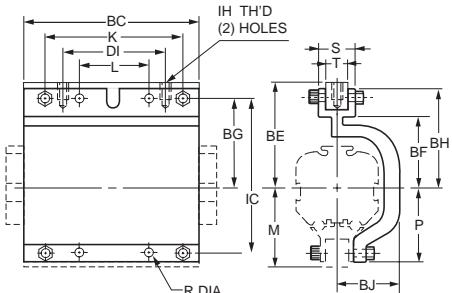
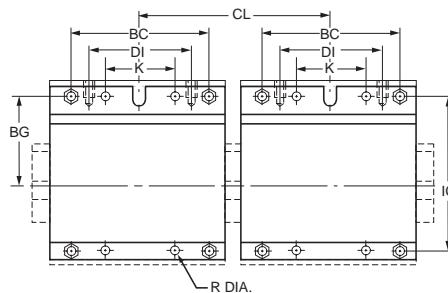
25mm &amp; 32mm Bore Sizes

**Inverted Basic Mount – Style J**

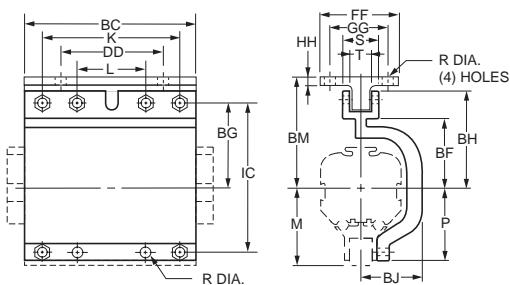
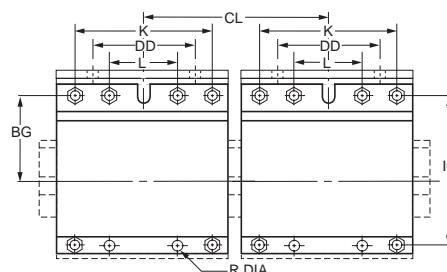
40mm &amp; 63mm Bore Size

**Inverted Basic Mount Double Carriage – Style B****Inverted Basic Mount – Style J**

50mm Bore Size

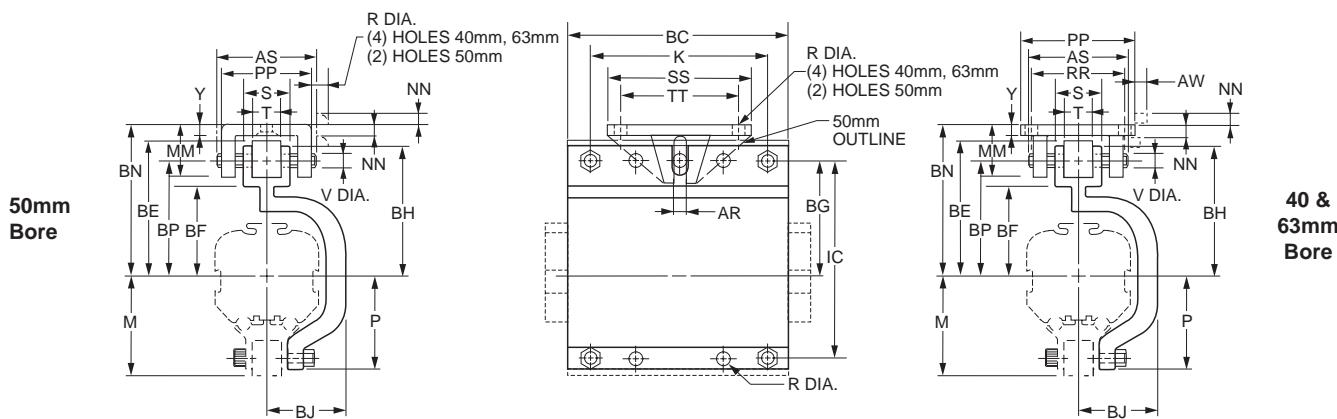
**Inverted Basic Mount Double Carriage – Style B****Inverted Flange Mount – Style L**

40mm, 50mm &amp; 63mm Bore Sizes

**Inverted Flange Mount Double Carriage – Style K**

**Inverted Swivel Mount – Style G**

40mm, 50mm &amp; 63mm Bore Sizes

**Inverted Carriage Mounts – Dimensions**

Bore	Unit	K	L	M	P	R	S	T	V	Y	AR	AS	AW	BC	BE	BF	BG	BH	BJ
25 mm	in.	—	1.97	—	1.50	0.22	1.02	—	—	—	—	—	—	4.25	—	1.07	1.30	—	1.38
	mm	—	50.0	—	38.1	5.59	25.9	—	—	—	—	—	—	107.95	—	27.2	33	—	35.1
32 mm	in.	—	3.94	—	1.89	0.28	1.26	—	—	—	—	—	—	5.67	—	1.25	1.57	—	1.50
	mm	—	100.1	—	48.0	7	32	—	—	—	—	—	—	144	—	31.75	39.9	—	38.1
40 mm	in.	4.33	2.17	2.40	2.27	0.28	1.10	0.71	0.47	0.24	0.31	2.75	±.30	5.43	3.34	2.31	2.87	3.19	1.99
	mm	110	55	61	57.6	7	28	18	12	6	8	70	±7.5	137.9	84.9	58.7	72.9	81	50.5
50 mm	in.	5.51	3.75	2.56	2.56	0.35	1.34	0.74	0.63	0.19	0.38	2.83	±0.24	7.24	3.63	2.46	3.24	3.63	2.56
	mm	139.9	95.25	65.0	65.0	8.9	34.0	18.8	16.0	4.8	9.7	71.9	±6.1	183.9	92.2	62.5	82.3	92.2	65.0
63 mm	in.	7.09	3.54	3.27	3.07	0.35	1.19	0.74	0.63	0.21	0.38	3.23	±0.26	8.19	4.61	3.23	4.01	4.41	3
	mm	180.0	89.9	83.1	78.0	8.9	30.0	18.8	16.0	5.5	9.7	82.0	±6.6	208.0	117.1	82.0	101.9	112	76.2

Bore	Unit	BM	BN	BP	CL	DD	DI	DJ	DK	FF	GG	HH	IC	MM	NN	PP	RR	SS	TT
25 mm	in.	1.50	—	—	4.94	—	3.15	—	#10-32	—	—	—	2.60	—	—	—	—	—	
	mm	38.1	—	—	125.5	—	80	—		—	—	—	66	—	—	—	—	—	
32 mm	in.	1.89	—	—	6.84	—	4.73	—	1/4-20	—	—	—	3.14	—	—	—	—	—	
	mm	48.0	—	—	173.7	—	120.14	—		—	—	—	79.8	—	—	—	—	—	
40 mm	in.	3.54	3.89	2.95	8.2	3.15	—	—	—	2.36	1.77	0.24	4.80	1.50	±0.30	2.76	2.17	3.54	2.95
	mm	89.92	98.81	74.93	208.6	80	—	—	—	60	45	6	122	38	±8	70	55	90	75
50 mm	in.	4.09	4.61	3.63	9.90	5.12	6.3	0.69	5/16-18	3.15	2.36	0.28	5.41	1.69	±0.24	2.27	—	3.94	3.15
	mm	103.9	117.1	92.2	251.5	130.0	160.0	17.48		80.0	59.9	7.1	137.4	42.9	±6.1	57.7	—	100.1	80.0
63 mm	in.	4.85	5.21	4.15	12.18	5.12	—	—	—	3.15	2.36	0.28	6.69	1.72	±0.35	3.54	2.76	4.72	3.94
	mm	123.2	132.3	105.4	309.4	130.0	—	—	—	80.0	59.9	7.1	169.9	43.7	±8.9	89.9	70.1	119.9	100.1

G

OSP-P

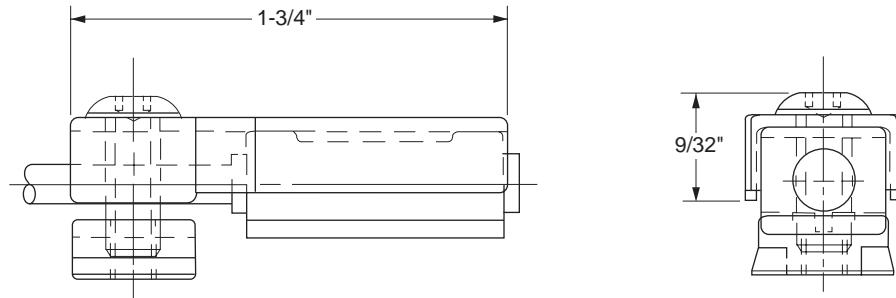
P1X

RC

GDL

## Sensors

Solid state and reed sensors are available for use with the RC Series Cylinders. See the Electronic Sensors Section for specifications and part numbers.



**G**

## Service Kits

		Bore Size (mm)				
		25	32	40	50	63
Outer Band	Single Carriage	L078470025	L078470032	L078470040	L078470050	L078470063
	Double Carriage	L078480025	L078480032	L078480040	L078480050	L078480063
Inner Band	Single Carriage	L078450025	L078450032	L078450040	L078450050	L078450063
	Double Carriage	L078460025	L078460032	L078460040	L078460050	L078460063
Piston Assembly		1468750250	1468750320	1468750400	1468750500	1468750630