



2007 Price Guide

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Quincy Ortman Cylinders

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Delivery Guide

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Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

Standard Delivery Schedule

The lead-times listed below are applicable to Ortman standard products. Please refer to Form PG04B-1102 for common modification adjustments to cylinder lead-times. A maximum order of ten (10) pieces will be allowed to qualify for standard delivery. For other sizes, not listed in this delivery schedule, please contact Quincy Ortman Cylinders.

Pneumatic Cylinders

SERIES	BORE SIZES	ROD SIZES	MOUNTING	STROKE	WILL SHIP IN
7K-7KA	1.50"-4.00"	Two smallest rod diameters per bore	All except: D, E, EB, SP	48" or less	5 working days
7K-7KA	1.50"-8.00"	All catalog rod sizes	All mounts	48" or less	10 working days
7K	10.00"	All catalog rod sizes	All mounts	48" or less	12 working days
101K	1.50"-4.00"	Standard rod sizes	All except: E, EH	48" or less	5 working days
101K	1.50"-8.00"	Standard rod sizes	All mounts	48" or less	10 working days
AS	1.50"-4.00"	All catalog rod sizes	All mounts	18" or less	5 working days
AS	5.00"-8.00"	All catalog rod sizes	All mounts	18" or less	7 working days
FA	2.50"-8.00"	Standard rod sizes	TR mounting	18" or less	5 working days
FA	10.00"-18.00"	Standard rod sizes	TR mounting	18" or less	15 working days

Hydraulic Cylinders

SERIES	BORE SIZES	ROD SIZES	MOUNTING	STROKE	WILL SHIP IN
3TH	1.50"-4.00"	Two smallest rod diameters per bore	All except: D,E, EB, P, SP, Q,R, Z, ER	48" or less	5 working days
3TH	1.50"-8.00"	All catalog rod sizes	All mounts	48" or less	10 working days
3TH	10.00"-12.00"	All catalog rod sizes	All mounts	48" or less	13 working days
7L	1.50"-4.00"	Two smallest rod diameters per bore	All except: D, E, EB, SP	48" or less	5 working days
7L	1.50"-8.00"	All catalog rod sizes	All mounts	48" or less	10 working days
7L	10.00"	All catalog rod sizes	All mounts	48" or less	12 working days
101L	1.50"-4.00"	Standard rod sizes	All except: E, EH	48" or less	5 working days
101L	1.50"-8.00"	Standard rod sizes	All mounts	48" or less	10 working days

Adjustments to Standard Delivery

Standard delivery dates may be adjusted for special orders resulting in modifications of standard designs. Modifications can result in the development of new parts or modifying standard parts. They can also lead to processes performed outside of Ortman's facility. This often increases production time and your delivery. To estimate delivery for cylinders with modifications, reference modifications in the tables below and add that time to the standard delivery.

Add Three (3) working days for the following modifications:	
SAE Ports	Special "BB" Dimension
Extra Ports	Stop Collar
Re-locating Ports	Dual Mounts
Dyna-Switches	Stainless Steel Piston Rod
Rod Gland Drain	Undersize Ports
Metallic Rod Scrapers	Special Rod End
Air Bleeds	Magnetic Piston & Reed Switches
Cross Drilled Holes in Rod	Half Coupling Ports
Extended Key Retainer Plate	Four (4) Standard Wrench Flats
Double Rod End	No Wrench Flats

Add Five (5) working days for the following modifications:	
Code 61, Code 62, or Other 4-Bolt Ports	Tandem Cylinders
Adjustable Stroke Cylinders	Protective Rod Boots

Add Ten (10) working days for the following modifications:	
Limit Switches (Namco, Turck, Go, etc.)	Chrome Bore Tubing (exclude 7K & 7L)
Epoxy Coatings	All Cylinder Plating (CAD, Nickel, etc.)
Close Tolerance Stroke Cylinders	Metric Accessories and Parts

Consult Ortman for estimated ship dates with the following modifications:	
More than ten (10) cylinders per order	Servo cylinders with or without LDT
120" total stroke or greater	Non-rotating rod designs
Stainless Steel construction	Any modification not previously mentioned

Example: 3TH-DH3.25-22.50-CCE-1.38-3-S11-RB/DSH3
 5 days for standard cylinder
 3 days for each, double rod end, Dyna-switch, and SAE ports (9 days)
 5 days for protective rod boot
19 Total days estimated

OSP Rodless Delivery Schedule

The lead-times listed below are applicable to Ortman OSP Rodless Pneumatic Cylinder products. A maximum order of ten (10) pieces will be allowed to qualify for standard delivery. For other OSP products, not listed in this delivery schedule, please contact Quincy Ortman Cylinders.

Ortman System Plus Lead Time Schedules

10 Days Standard Lead time
OSP Basic Rodless OSP Slideline OSP Powerslide Repair Kits Accessories

3-Day Expedited Shipping – 20% Premium

5-Day Expedited Shipping – 10% Premium

4 Week Standard Lead time
OSP Guideline OSP Proline SensoFlex Sensors Brakes Expedited Shipping not Available!

Repair Kits and Replacement Parts

Standard Parts & Kits

Kits	Will Ship
Standard RG Repair Kits	3 working days
Standard RS Repair Kits	3 working days
Standard TS Repair Kits	3 working days
Standard FA Repair Kits	3 working days
Standard OSP Repair Kits	5 working days
Special Z-Kits for Custom Design Cylinders**	Subject to availability

Individual Parts	Will Ship
Soft Parts / Seals / etc.	3 working days
Machined Parts up to 6.00" bore (stroke parts up to 25.00" stroke)	5 working days
Accessories	3 working days
OSP Accessories and Mounts	5 working days
Electrical Components**	Subject to availability
OSP SensoFlex Sensors	12 working days
Special Order Accessories and Parts**	Subject to availability

Emergency Seal Kits

Standard Seal kits are available for emergency Red Bore* service. Kits subject to availability**.

**All large bore and special components are subject to availability. Please consult Quincy Ortman Cylinders sales department for details.

Quick Ship – Expedited Service

Ortman's Quick Ship expedited service is a program designed to give customers a solution for short deadlines. The program provides standard Ortman cylinders to fit most NFPA cylinders applications, in just three (3) days. Cylinders can then be shipped direct to the customer via a premium or regular courier service to exceed our customer's expectations. Certain qualifications apply, please reference the details below.

Quick Ship - Expedited Service

Series	Bore Sizes	Rod Sizes	Mounting	Will Ship
AS	1.50"-6.00"	Two smallest rod diameters per bore	All mounts	3 days
3TH	1.50"-4.00"	Two smallest rod diameters per bore	All except: E, EB, K, SP	3 days
7L	1.50"-6.00"	Two smallest rod diameters per bore	All except: D, E, EB, SP, K, P, Q	3 days
7K	1.50"-6.00"	Two smallest rod diameters per bore	All except: D, E, EB, SP, K, P, Q	3 days
101L	1.50"-6.00"	Standard rod diameter	All except: E, EH	3 days
101K	1.50"-6.00"	Standard rod diameter	All except: E, EH	3 days

Qualifications

1. Orders must be received by Quincy Ortman Cylinders no later than 11:00am Central Time. Orders received after 11:00am will ship in three (3) business days. For instance, orders received before 11:00am on Monday, would ship on Wednesday, and orders received after 11:00am, would ship on Thursday.
2. Maximum five (5) cylinders per order. For quantities greater than five, consult Quincy Ortman Cylinders.
3. Maximum stroke length per cylinder not to exceed 48.00".
4. Cylinders must be of standard construction from the availability table above and meet the following guidelines:
 - a. Standard NPT or SAE ports in position #1 (unless end cover can be rotated)
 - b. Cushion Adjusts in position #2 (right adjacent side to the port)
 - c. Ball Checks in position #4 (left adjacent side to the port)
 - d. Rod end styles 1, 2, 3, 5, 6, and 7 are acceptable
 - e. Standard or Viton seals
5. Three (3) working days required.

Premium charge, 10% of List price, will apply per cylinder, repair kit, and part!

Red Bore – Expedited Service

Ortman's Red Bore expedited service is another program designed to provide a short delivery lead-time solution. The program is intended to produce standard Ortman cylinders to replace most NFPA cylinders in critical breakdown situations, in just one (1) day. Cylinders can be shipped direct to the customer via a premium courier service to minimize downtime and costs for lost production. Certain qualifications apply, please reference the details below.

Red Bore - Expedited Service

Series	Bore Sizes	Rod Sizes	Mounting	Will Ship
AS	1.50"-6.00"	Two smallest rod diameters per bore	All mounts	Same Day
3TH	1.50"-4.00"	Two smallest rod diameters per bore	All except: D, E, ER, EB, SP, K, P, Q, Z, R	Same Day
7L	1.50"-6.00"	Two smallest rod diameters per bore	All except: D, E, ER, EB, SP, K, P, Q	Same Day
7K	1.50"-6.00"	Two smallest rod diameters per bore	All except: D, E, ER, EB, SP, K, P, Q	Same Day
101L	1.50"-6.00"	Standard rod diameter	All except: E, EH	Same Day
101K	1.50"-6.00"	Standard rod diameter	All except: E, EH	Same Day
RG Kits	1.50"-6.00"	All available rod diameters		Same Day
RS Kits	1.50"-6.00"	All available rod diameters		Same Day
TS Kits	1.50"-6.00"			Same Day

Qualifications

1. Orders must be received by Quincy Ortman Cylinders no later than 11:00am Central Time. Orders received after 11:00am will ship the following business day.
2. Maximum five (5) cylinders up to 4.00" bore, per order. Maximum two (2) cylinders up to 6.00" bore, per order.
3. Maximum stroke length per cylinder not to exceed 48.00".
4. Cylinders must be of standard construction from the availability table above and meet the following guidelines:
 - a. Standard NPT or SAE ports in position #1 (unless end cover can be rotated)
 - b. Cushion Adjusts in position #2 (right adjacent side to the port)
 - c. Ball Checks in position #4 (left adjacent side to the port)
 - d. Rod end styles 1, 2, 3, 5, 6, and 7 are acceptable
 - e. Standard or Viton seals

Premium charge, 25% of List price, will apply per cylinder, repair kit, and part!

3TH Series Price Guide

- **Standard Terms and Conditions**
- **3TH – NFPA Heavy Duty Hydraulic 3000 PSI Cylinders**
 - **1.50"-8.00" Single Rod End Cylinders**
 - **1.50"-8.00" Double Rod End Cylinders**
 - **10.00"-14.00" Single and Double Rod End Cylinders**
 - **16.00"-20.00" Single and Double Rod End Cylinders**
- **3THX – Electrohydraulic Heavy Duty 3000 PSI Cylinders**
 - **2.00"-8.00" Single Rod End Cylinders**
- **3TH Series Modifications**
 - **Port Options**
 - **Rod End Modifications**
 - **Material Options**
 - **Seal Options**
 - **Supports**
 - **Tandem Construction**
 - **Additional Options and Modifications**
- **3TH Series Accessories**
 - **Accessories**
 - **Switches**
 - **LDT Probes and Accessories**
- **3TH Series Service Kits**
 - **Rod Gland Kits**
 - **Rod Seal Kits**
 - **Tube Seal Kits**

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Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

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STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

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- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

3TH – NFPA Heavy Duty Hydraulic 3000 PSI

1.50"-8.00" Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

3TH SINGLE ROD END

Bore	Rod	Per Inch of Stroke	A*B*H	ER*EB*CC	G*J*Q*P*BB*AA *R*Z*QQ*PP*D	K*E*SP	L*M*N*O
1.50	0.625	\$ 4.99	\$ 375.00	\$ 483.41	\$ 414.88	\$ 510.82	\$ 345.10
	1.000	\$ 6.25	\$ 459.72	\$ 565.64	\$ 495.87	\$ 599.27	\$ 431.07
2.00	1.000	\$ 6.25	\$ 434.81	\$ 560.65	\$ 472.19	\$ 593.04	\$ 416.12
	1.375	\$ 9.97	\$ 519.53	\$ 645.37	\$ 566.88	\$ 681.51	\$ 500.84
2.50	1.000	\$ 9.97	\$ 474.68	\$ 631.66	\$ 512.06	\$ 667.80	\$ 456.00
	1.375	\$ 11.21	\$ 573.11	\$ 723.86	\$ 616.71	\$ 764.97	\$ 548.19
	1.750	\$ 13.72	\$ 649.10	\$ 802.35	\$ 692.71	\$ 847.21	\$ 624.19
3.25	1.375	\$ 12.47	\$ 600.53	\$ 774.96	\$ 660.34	\$ 819.81	\$ 573.12
	1.750	\$ 13.72	\$ 717.64	\$ 890.81	\$ 766.23	\$ 941.91	\$ 676.52
	2.000	\$ 14.96	\$ 798.63	\$ 973.05	\$ 845.98	\$ 1,029.13	\$ 756.26
4.00	1.750	\$ 16.19	\$ 743.81	\$ 939.42	\$ 794.89	\$ 992.99	\$ 697.72
	2.000	\$ 18.69	\$ 885.84	\$ 1,075.22	\$ 928.20	\$ 1,137.51	\$ 844.72
	2.500	\$ 19.94	\$ 976.79	\$ 1,186.10	\$ 1,026.63	\$ 1,254.63	\$ 935.67
5.00	2.000	\$ 22.43	\$ 1,046.56	\$ 1,341.84	\$ 1,113.85	\$ 1,420.32	\$ 953.12
	2.500	\$ 27.42	\$ 1,225.96	\$ 1,567.34	\$ 1,304.47	\$ 1,657.05	\$ 1,166.18
	3.000	\$ 29.91	\$ 1,344.33	\$ 1,618.43	\$ 1,437.78	\$ 1,704.40	\$ 1,282.04
	3.500	\$ 33.64	\$ 1,457.70	\$ 1,821.51	\$ 1,588.53	\$ 1,927.42	\$ 1,391.68
6.00	2.500	\$ 28.67	\$ 1,582.29	\$ 1,831.46	\$ 1,584.78	\$ 1,936.12	\$ 1,452.72
	3.000	\$ 32.39	\$ 1,695.67	\$ 2,058.21	\$ 1,810.28	\$ 2,176.59	\$ 1,642.09
	3.500	\$ 34.88	\$ 1,865.12	\$ 2,195.27	\$ 1,949.83	\$ 2,322.34	\$ 1,804.06
	4.000	\$ 39.87	\$ 2,012.12	\$ 2,359.73	\$ 2,116.79	\$ 2,495.52	\$ 1,976.00
7.00	3.000	\$ 36.13	\$ 2,103.08	\$ 2,448.18	\$ 2,190.29	\$ 2,590.23	\$ 2,040.79
	3.500	\$ 39.87	\$ 2,347.28	\$ 2,797.05	\$ 2,453.19	\$ 3,123.47	\$ 2,250.09
	4.000	\$ 46.10	\$ 2,499.28	\$ 2,991.41	\$ 2,608.91	\$ 3,164.59	\$ 2,460.67
	4.500	\$ 51.08	\$ 2,606.43	\$ 3,018.82	\$ 2,693.65	\$ 3,192.00	\$ 2,544.14
	5.000	\$ 56.07	\$ 2,616.39	\$ 3,101.04	\$ 2,726.03	\$ 3,280.45	\$ 2,580.26
8.00	3.500	\$ 49.84	\$ 2,929.11	\$ 3,418.76	\$ 2,991.41	\$ 3,616.85	\$ 2,907.93
	4.000	\$ 56.07	\$ 3,320.32	\$ 3,929.57	\$ 3,341.51	\$ 4,156.33	\$ 3,305.37
	4.500	\$ 62.30	\$ 3,530.88	\$ 4,182.49	\$ 3,574.49	\$ 4,425.43	\$ 3,456.13
	5.000	\$ 68.53	\$ 3,770.10	\$ 4,437.90	\$ 3,807.47	\$ 4,693.32	\$ 3,766.37
	5.500	\$ 73.50	\$ 4,132.66	\$ 4,730.69	\$ 4,160.07	\$ 5,004.78	\$ 4,132.66

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

3TH – NFPA Heavy Duty Hydraulic 3000 PSI

1.50"-8.00" Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

3TH DOUBLE ROD END

Bore	Rod	Per Inch of Stroke	B*H	CC*ER	J*Q*QQ*BB	K*E	L*M*O
1.50	0.625	\$ 6.25	\$ 657.82	\$ 742.55	\$ 674.03	\$ 748.77	\$ 600.52
	1.000	\$ 9.97	\$ 832.26	\$ 908.26	\$ 837.24	\$ 930.69	\$ 769.97
2.00	1.000	\$ 9.97	\$ 763.73	\$ 859.66	\$ 771.20	\$ 882.09	\$ 712.66
	1.375	\$ 12.47	\$ 941.90	\$ 1,029.11	\$ 951.86	\$ 1,056.53	\$ 882.09
2.50	1.000	\$ 12.47	\$ 835.99	\$ 961.84	\$ 842.23	\$ 987.99	\$ 781.17
	1.375	\$ 14.96	\$ 948.12	\$ 1,064.00	\$ 956.85	\$ 1,093.90	\$ 885.83
	1.750	\$ 16.19	\$ 1,118.82	\$ 1,228.46	\$ 1,120.05	\$ 1,260.84	\$ 1,046.55
3.25	1.375	\$ 16.19	\$ 1,044.08	\$ 1,178.62	\$ 1,064.01	\$ 1,211.02	\$ 973.05
	1.750	\$ 18.69	\$ 1,304.47	\$ 1,426.56	\$ 1,304.47	\$ 1,463.94	\$ 1,208.52
	2.000	\$ 19.94	\$ 1,462.69	\$ 1,581.05	\$ 1,453.97	\$ 1,620.92	\$ 1,358.03
4.00	1.750	\$ 19.94	\$ 1,289.52	\$ 1,436.52	\$ 1,292.00	\$ 1,475.14	\$ 1,191.08
	2.000	\$ 22.43	\$ 1,592.25	\$ 1,721.83	\$ 1,574.82	\$ 1,765.46	\$ 1,486.36
	2.500	\$ 28.67	\$ 1,787.87	\$ 1,929.91	\$ 1,929.91	\$ 1,978.49	\$ 1,672.00
5.00	2.000	\$ 27.42	\$ 1,800.33	\$ 2,015.87	\$ 1,795.35	\$ 2,068.20	\$ 1,740.53
	2.500	\$ 33.64	\$ 2,146.69	\$ 2,393.37	\$ 2,137.97	\$ 2,455.66	\$ 2,129.25
	3.000	\$ 38.62	\$ 2,407.09	\$ 2,576.53	\$ 2,402.09	\$ 2,632.59	\$ 2,390.88
	3.500	\$ 46.10	\$ 2,666.22	\$ 2,916.66	\$ 2,691.15	\$ 2,971.47	\$ 2,652.53
6.00	2.500	\$ 34.88	\$ 2,595.20	\$ 2,962.74	\$ 2,598.95	\$ 3,072.39	\$ 2,465.63
	3.000	\$ 42.36	\$ 2,891.72	\$ 3,390.08	\$ 3,006.35	\$ 3,514.68	\$ 2,840.65
	3.500	\$ 49.84	\$ 3,215.66	\$ 3,694.09	\$ 3,300.39	\$ 3,826.15	\$ 3,155.86
	4.000	\$ 56.07	\$ 3,494.75	\$ 4,001.82	\$ 3,599.40	\$ 4,143.86	\$ 3,457.37
7.00	3.000	\$ 48.59	\$ 3,498.50	\$ 4,003.08	\$ 3,584.45	\$ 4,150.10	\$ 3,436.20
	3.500	\$ 54.82	\$ 3,935.80	\$ 4,612.32	\$ 4,082.82	\$ 4,952.45	\$ 3,880.98
	4.000	\$ 64.79	\$ 4,310.82	\$ 5,002.28	\$ 4,421.70	\$ 5,182.96	\$ 4,272.20
	4.500	\$ 76.00	\$ 4,508.92	\$ 5,125.64	\$ 4,594.88	\$ 5,307.54	\$ 4,446.62
	5.000	\$ 93.44	\$ 4,700.80	\$ 5,400.98	\$ 4,809.18	\$ 5,586.62	\$ 4,663.42
8.00	3.500	\$ 66.02	\$ 4,613.57	\$ 5,317.51	\$ 4,675.87	\$ 5,521.84	\$ 4,593.64
	4.000	\$ 73.50	\$ 5,494.43	\$ 6,357.83	\$ 5,515.60	\$ 6,593.30	\$ 5,479.48
	4.500	\$ 87.22	\$ 5,994.03	\$ 6,923.47	\$ 6,040.13	\$ 7,176.39	\$ 5,921.76
	5.000	\$ 103.41	\$ 6,483.67	\$ 7,446.74	\$ 6,519.80	\$ 7,713.37	\$ 6,477.44
	5.500	\$ 113.38	\$ 6,990.75	\$ 7,891.53	\$ 7,004.46	\$ 8,175.61	\$ 6,978.29

NOTE: See Port Options for Cushioning.
 Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.
 For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

3TH – NFPA Heavy Duty Hydraulic 3000 PSI

10.00”-14.00” Single and Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

3TH SINGLE ROD END

Bore	Rod	Per Inch of Stroke	B*A*O	BB*AA*Q*P	ER*EB	G*J*QQ*PP	K*E
10.00	4.500	\$ 124.60	\$ 5,217.83	\$ 5,437.11	\$ 6,308.00	\$ 5,884.40	\$ 6,716.66
	5.000	\$ 130.82	\$ 5,873.18	\$ 5,995.28	\$ 6,830.02	\$ 6,393.96	\$ 7,261.10
	5.500	\$ 137.06	\$ 6,139.78	\$ 6,327.94	\$ 7,247.42	\$ 6,785.17	\$ 7,708.38
	7.000	\$ 156.99	\$ 7,318.42	\$ 7,457.97	\$ 8,351.27	\$ 7,862.88	\$ 8,884.52
12.00	5.500	\$ 158.22	\$ 8,052.25	\$ 8,330.07	\$ 9,466.34	\$ 8,873.30	\$ 9,845.09
	7.000	\$ 179.41	\$ 10,374.60	\$ 10,674.86	\$ 11,619.25	\$ 11,102.21	\$ 12,397.94
	8.500	\$ 210.56	\$ 11,338.93	\$ 11,624.24	\$ 12,584.82	\$ 12,041.61	\$ 13,414.60
14.00	7.000	\$ 213.05	\$ 13,592.77	\$ 14,023.85	\$ 15,530.14	\$ 15,040.51	\$ 17,323.00
	8.500	\$ 244.20	\$ 17,607.05	\$ 18,200.10	\$ 19,654.07	\$ 19,193.08	\$ 20,913.68
	10.000	\$ 291.54	\$ 18,375.78	\$ 18,937.68	\$ 20,364.23	\$ 19,887.05	\$ 21,722.27

3TH DOUBLE ROD END

Bore	Rod	Per Inch of Stroke	B*O	BB*Q	ER	K*E	QQ*J
10.00	4.500	\$ 144.54	\$ 8,246.61	\$ 8,467.13	\$ 9,284.44	\$ 9,876.24	\$ 8,888.25
	5.000	\$ 156.99	\$ 9,188.52	\$ 9,406.54	\$ 10,245.04	\$ 10,829.36	\$ 9,568.52
	5.500	\$ 169.45	\$ 9,944.77	\$ 10,492.98	\$ 11,010.02	\$ 11,685.30	\$ 10,562.74
	7.000	\$ 173.17	\$ 11,377.56	\$ 11,600.58	\$ 12,395.45	\$ 13,145.49	\$ 11,984.31
12.00	5.500	\$ 180.65	\$ 12,639.64	\$ 12,977.29	\$ 13,851.91	\$ 14,727.76	\$ 13,407.12
	7.000	\$ 219.28	\$ 16,242.79	\$ 16,581.66	\$ 17,421.40	\$ 18,577.61	\$ 16,981.61
	8.500	\$ 221.77	\$ 17,538.52	\$ 17,614.52	\$ 18,243.70	\$ 19,383.70	\$ 17,832.56
14.00	7.000	\$ 261.65	\$ 21,478.06	\$ 21,934.06	\$ 23,094.00	\$ 24,734.84	\$ 17,790.21
	8.500	\$ 306.49	\$ 28,067.62	\$ 28,470.05	\$ 29,294.84	\$ 31,664.53	\$ 29,398.24
	10.000	\$ 393.71	\$ 29,215.11	\$ 29,638.71	\$ 30,635.42	\$ 32,978.97	\$ 30,485.92

* Additional charges may apply for cylinder modifications.

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

3TH – NFPA Heavy Duty Hydraulic 3000 PSI

16.00"-20.00" Single and Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

3TH SINGLE ROD END

Bore	Rod	Per Inch of Stroke	ER*EB*E	G*K	Q*P*O	QQ*PP
16.00	8.500	\$ 242.95	\$ 25,390.19	\$ 23,654.66	\$ 20,371.71	\$ 21,593.93
	10.000	\$ 299.01	\$ 29,738.38	\$ 29,496.68	\$ 23,827.83	\$ 25,258.12
18.00	10.000	\$ 312.72	\$ 39,199.74	\$ 35,771.02	\$ 30,940.66	\$ 32,797.06
20.00	10.000	\$ 392.46	\$ 45,379.40	\$ 42,619.72	\$ 36,133.57	\$ 38,301.44

3TH DOUBLE ROD END

Bore	Rod	Per Inch of Stroke	ER*E	Q*O	QQ*K
16.00	8.500	\$ 306.49	\$ 31,363.03	\$ 27,404.80	\$ 28,774.05
	10.000	\$ 434.82	\$ 39,000.38	\$ 32,500.54	\$ 34,127.69
18.00	10.000	\$ 441.06	\$ 48,040.64	\$ 37,983.74	\$ 39,882.49
20.00	10.000	\$ 569.38	\$ 54,612.75	\$ 43,529.24	\$ 45,707.07

* Additional charges may apply for cylinder modifications.

NOTE: See Port Options for Cushioning.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

3THX – Electrohydraulic Heavy Duty 3000 PSI

2.00”-8.00” Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

3THX Single Rod End

Bore	Rod	Per Inch of Stroke	B*H	ER*EB*CC	J*Q*BB*QQ	K*E	M*O
2.00	1.375	\$ 21.62	\$ 1,048.25	\$ 1,174.08	\$ 1,095.60	\$ 1,210.23	\$ 1,029.55
2.50	1.375	\$ 22.87	\$ 1,110.81	\$ 1,261.56	\$ 1,154.41	\$ 1,302.67	\$ 1,085.89
	1.750	\$ 25.37	\$ 1,191.88	\$ 1,345.13	\$ 1,235.49	\$ 1,389.99	\$ 1,166.97
3.25	1.375	\$ 24.12	\$ 1,146.61	\$ 1,321.04	\$ 1,206.42	\$ 1,365.89	\$ 1,119.20
	1.750	\$ 25.37	\$ 1,268.80	\$ 1,441.98	\$ 1,317.40	\$ 1,493.07	\$ 1,227.69
	2.000	\$ 26.61	\$ 1,352.66	\$ 1,527.09	\$ 1,400.01	\$ 1,583.15	\$ 1,310.30
4.00	1.750	\$ 27.85	\$ 1,311.48	\$ 1,507.09	\$ 1,362.56	\$ 1,560.66	\$ 1,265.38
	2.000	\$ 30.35	\$ 1,456.38	\$ 1,645.75	\$ 1,498.74	\$ 1,708.04	\$ 1,415.25
	2.500	\$ 31.59	\$ 1,557.72	\$ 1,767.02	\$ 1,607.56	\$ 1,835.55	\$ 1,516.60
5.00	2.000	\$ 34.08	\$ 1,621.05	\$ 1,916.34	\$ 1,688.34	\$ 1,994.82	\$ 1,527.62
	2.500	\$ 39.07	\$ 1,810.86	\$ 2,152.24	\$ 1,889.36	\$ 2,241.95	\$ 1,751.07
	3.000	\$ 41.56	\$ 1,969.01	\$ 2,243.11	\$ 2,062.45	\$ 2,329.07	\$ 1,906.72
	3.500	\$ 45.30	\$ 2,093.11	\$ 2,456.92	\$ 2,223.94	\$ 2,562.82	\$ 2,027.09
6.00	2.500	\$ 40.33	\$ 2,221.72	\$ 2,470.89	\$ 2,224.21	\$ 2,575.55	\$ 2,092.15
	3.000	\$ 44.04	\$ 2,374.88	\$ 2,737.43	\$ 2,489.50	\$ 2,855.80	\$ 2,321.30
	3.500	\$ 46.53	\$ 2,555.06	\$ 2,885.22	\$ 2,639.77	\$ 3,012.29	\$ 2,494.01
	4.000	\$ 51.52	\$ 2,725.61	\$ 3,073.22	\$ 2,830.27	\$ 3,209.02	\$ 2,689.49
7.00	3.000	\$ 47.79	\$ 3,021.92	\$ 3,367.03	\$ 3,109.13	\$ 3,509.08	\$ 2,959.64
	3.500	\$ 51.52	\$ 3,276.85	\$ 3,726.62	\$ 3,382.76	\$ 4,053.04	\$ 3,179.67
	4.000	\$ 57.76	\$ 3,452.40	\$ 3,944.53	\$ 3,562.04	\$ 4,117.71	\$ 3,413.79
	4.500	\$ 62.74	\$ 3,593.20	\$ 4,005.59	\$ 3,680.41	\$ 4,178.76	\$ 3,530.91
	5.000	\$ 67.73	\$ 3,705.03	\$ 4,189.69	\$ 3,814.68	\$ 4,369.10	\$ 3,668.91
8.00	3.500	\$ 61.49	\$ 3,874.70	\$ 4,364.35	\$ 3,937.00	\$ 4,562.44	\$ 3,853.53
	4.000	\$ 67.73	\$ 4,289.46	\$ 4,898.71	\$ 4,310.65	\$ 5,125.47	\$ 4,274.51
	4.500	\$ 73.95	\$ 4,533.66	\$ 5,185.27	\$ 4,577.27	\$ 5,428.21	\$ 4,458.90
	5.000	\$ 80.19	\$ 4,874.77	\$ 5,542.57	\$ 4,912.14	\$ 5,797.98	\$ 4,871.03
	5.500	\$ 85.16	\$ 5,343.53	\$ 5,941.55	\$ 5,370.93	\$ 6,215.64	\$ 5,343.53

NOTE: Base Pricing includes cost for internal preparations and raffle drilling for LDT Probes. For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

3TH Series Modifications

Port Options

3TH PORTING OPTIONS

Bore	Cushions Per End	Extra Ports and/or Re-located Ports Per End	Code 61/62 Ports Per End	Air Bleeds Per End	Weld Half Coupling Oversized Ports Per End	Flanged Switch Prep Per End	Dynaswitch Prep Per End
1.50	\$ 85.97	\$ 43.61	\$ 137.06	\$ 28.67	\$ 71.02	\$ 114.40	\$ 43.61
2.00	\$ 98.43	\$ 43.61	\$ 137.06	\$ 28.67	\$ 71.02	\$ 114.40	\$ 43.61
2.50	\$ 112.13	\$ 43.61	\$ 137.06	\$ 28.67	\$ 71.02	\$ 114.40	\$ 43.61
3.25	\$ 130.82	\$ 44.86	\$ 153.25	\$ 28.67	\$ 76.00	\$ 114.40	\$ 43.61
4.00	\$ 154.49	\$ 44.86	\$ 153.25	\$ 32.39	\$ 76.00	\$ 114.40	\$ 43.61
5.00	\$ 170.69	\$ 44.86	\$ 153.25	\$ 32.39	\$ 76.00	\$ 114.40	\$ 53.57
6.00	\$ 215.54	\$ 53.57	\$ 169.45	\$ 36.13	\$ 89.72	\$ 114.40	\$ 53.57
7.00	\$ 251.68	\$ 79.74	\$ 188.13	\$ 38.62	\$ 144.54	\$ 114.40	\$ 78.50
8.00	\$ 267.86	\$ 97.18	\$ 199.35	\$ 47.34	\$ 144.54	\$ 114.40	\$ 78.50
10.00	\$ 325.18	\$ 112.13	\$ 224.27	\$ 93.44			
12.00	\$ 448.54	\$ 128.33	\$ 230.49	\$ 93.44			
14.00	\$ 660.34	\$ 144.54	\$ 230.49	\$ 93.44			
16.00	\$ 853.45	\$ 193.83	\$ 230.49	\$ 105.23			
18.00	\$ 989.25	\$ 193.83	\$ 230.49	\$ 105.23			
20.00	\$ 1,081.45	\$ 193.83	\$ 230.49	\$ 116.30			

3TH PORTING OPTIONS

Bore	Integral Valve Manifold DO3*DO5*SVA *SVD	Manifold Prep
1.50	\$ 623.27	\$ 95.93
2.00	\$ 623.27	\$ 95.93
2.50	\$ 623.27	\$ 95.93
3.25	\$ 782.51	\$ 100.91
4.00	\$ 803.66	\$ 100.91
5.00	\$ 824.82	\$ 100.91
6.00	\$ 907.30	\$ 122.11
7.00	\$ 998.02	\$ 194.37
8.00	\$ 1,097.83	\$ 194.37

Quick Reference - Application of Port Re-loaction Adders

Mount	HEAD END PORT LOCATIONS				CAP END PORT LOCATIONS				
	Position #1	Position #2	Position #3	Position #4	Position #1	Position #2	Position #3	Position #4	Position #5
A~AA~B~BB~CC~E~L~M~N~O~PP~QQ	STD	NO	NO	NO	STD	NO	NO	NO	YES
D~G~SP	STD	NO	NO	NO	STD	YES	NO	YES	N/A
H~J	STD	YES	YES	YES	STD	YES	YES	YES	YES
R~Z	STD	NO	NO	NO	STD	NO	NO	NO	N/A
EB	STD	NO	NO	NO	STD	N/A	NO	N/A	YES
ER	STD	N/A	NO	N/A	STD	NO	NO	NO	YES
K	STD	N/A	YES	N/A	STD	N/A	YES	N/A	YES
P	STD	NO	NO	NO	STD	YES	NO	YES	YES
Q	STD	YES	NO	YES	STD	NO	NO	NO	YES

3TH Series Modifications

Rod End Modifications

3TH ROD END OPTIONS

Rod	A	Per inch or Fraction Over A	WF	Per inch or Fraction over WF	Flanged Rod End Base	Wrench Flats Per Extra Pair	Steel Rod Stud	SS Rod Stud	Rod Gland Drain Per Each	Metallic Rod Scraper
0.625	0.750	\$ 2.50	1.000	\$ 1.24	\$ 38.62	\$ 9.97	\$ 11.21	\$ 84.84	\$ 59.82	\$ 28.67
1.000	1.125	\$ 3.73	1.375	\$ 2.50	\$ 38.62	\$ 11.21	\$ 13.72	\$ 89.94	\$ 62.30	\$ 37.39
1.375	1.625	\$ 4.99	1.625	\$ 3.73	\$ 38.62	\$ 11.21	\$ 19.94	\$ 142.23	\$ 66.02	\$ 56.07
1.750	2.000	\$ 7.48	1.875	\$ 4.99	\$ 48.59	\$ 13.72	\$ 37.39	\$ 191.73	\$ 68.53	\$ 78.50
2.000	2.250	\$ 9.97	2.000	\$ 6.25	\$ 51.08	\$ 16.19	\$ 82.24	\$ 218.98	\$ 71.02	\$ 87.22
2.500	3.000	\$ 13.72	2.250	\$ 9.97	\$ 71.02	\$ 18.69	\$ 108.39	\$ 380.36	\$ 79.74	\$ 155.74
3.000	3.500	\$ 16.19	2.250	\$ 11.21	\$ 103.41	\$ 21.20	\$ 142.86	\$ 781.33	\$ 97.18	\$ 326.44
3.500	3.500	\$ 19.94	2.250	\$ 13.72	\$ 108.39	\$ 22.43	\$ 188.29	\$ 848.10	\$ 108.39	\$ 399.93
4.000	4.000	\$ 23.67	2.250	\$ 16.19	\$ 113.38	\$ 26.16	\$ 248.15	\$ 1,017.69	\$ 113.38	\$ 488.40
4.500	4.500	\$ 33.64	2.250	\$ 21.20	\$ 130.82	\$ 27.42	\$ 327.06	\$ 1,340.01	\$ 117.12	\$ 518.31
5.000	5.000	\$ 42.36	2.250	\$ 32.39	\$ 139.55	\$ 29.91	\$ 431.06	\$ 2,042.48	\$ 122.11	\$ 584.33
5.500	5.500	\$ 49.84	2.250	\$ 36.13	\$ 154.49	\$ 34.88	\$ 568.13	\$ 2,484.35	\$ 128.33	\$ 702.69
7.000	7.000	\$ 77.25	3.188	\$ 58.56	\$ 161.97	\$ 166.68	\$ 748.77	\$ 3,858.31	\$ 213.05	
8.500	8.500	\$ 93.44	3.438	\$ 80.98	\$ 166.95	\$ 222.24	\$ 986.87		\$ 213.05	
10.000	10.000	\$ 144.54	3.875	\$ 137.06	\$ 174.43	\$ 296.31	\$ 1,300.67		\$ 213.05	

Additional Rod End Modifications

Modification Description	Rod Size	Adder
Elliptical rod end	.63"-1.00"	\$ 38.62
Metric threads, course threads, left handed threads	1.38"-2.00"	\$ 48.59
R.H. Acme threads	2.50"-3.50"	\$ 71.02
Snap ring groove - Max. .25" width	ALL	\$ 32.39
Turn down diameter .001" to .005" tolerance	ALL	\$ 37.39
Turn down diameter - No tolerance	ALL	\$ 19.94
Drill, c'sink, and tap lock screw hole	ALL	\$ 49.84
Keyway - Max. .25" x 2.00" long	.63"-3.50"	\$ 242.95
Crossdrilled hole through pist rod	.63"-1.00"	\$ 21.20
	1.38"-2.00"	\$ 26.16
	2.50"-3.50"	\$ 51.08
	4.00"-5.50"	\$ 69.77
Pin rod clevis or rod eye to piston rod	.63"-1.00"	\$ 38.62
	1.38"-2.00"	\$ 43.61
	2.50"-3.50"	\$ 71.02
	4.00"-5.50"	\$ 103.41

3TH Series Modifications

Material Options

3TH ROD MATERIAL OPTIONS

17-4 PH Stainless Steel Piston Rod				303 Stainless Steel Piston Rod		
Rod	Single Rod	Double Rod	Base	Single Rod	Double Rod	Base
	End Per Inch	End Per Inch		End Per Inch	End Per Inch	
	Nominal Stroke	Nominal Stroke		Nominal Stroke	Nominal Stroke	
0.625	\$ 3.73	\$ 7.47	\$ 18.69	\$ 3.73	\$ 7.47	\$ 17.45
1.000	\$ 6.25	\$ 12.48	\$ 28.67	\$ 4.99	\$ 9.97	\$ 26.16
1.375	\$ 11.21	\$ 22.42	\$ 69.77	\$ 9.97	\$ 19.94	\$ 44.86
1.750	\$ 13.72	\$ 27.43	\$ 118.36	\$ 11.21	\$ 22.42	\$ 77.25
2.000	\$ 21.20	\$ 42.38	\$ 200.60	\$ 17.45	\$ 34.89	\$ 158.22
2.500	\$ 34.88	\$ 69.76	\$ 381.25	\$ 27.42	\$ 54.83	\$ 267.86
3.000	\$ 42.36	\$ 84.72	\$ 583.09	\$ 34.88	\$ 69.76	\$ 357.58
3.500	\$ 44.86	\$ 89.72	\$ 682.77	\$ 37.39	\$ 74.77	\$ 475.94
4.000	\$ 62.30	\$ 124.59	\$ 813.57	\$ 54.82	\$ 109.64	\$ 634.16
4.500	\$ 92.20	\$ 184.40	\$ 1,258.37	\$ 83.48	\$ 166.97	\$ 1,056.54
5.000	\$ 112.13	\$ 224.25	\$ 1,673.25	\$ 100.91	\$ 201.83	\$ 1,416.59
5.500	\$ 115.87	\$ 231.74	\$ 1,863.86	\$ 109.65	\$ 219.29	\$ 1,563.62
7.000	\$ 187.69	\$ 375.37	\$ 3,378.31			
8.500	\$ 276.73	\$ 553.49	\$ 5,534.76			
10.000	\$ 383.03	\$ 766.07	\$ 9,192.69			

3TH TUBE MATERIAL OPTIONS

Bore	TYPE I CHROME		TYPE II CHROME	
	List Price		List Price	
	Base	Per Inch	Base	Per Inch
1.50	\$ 11.84	\$ 5.39	\$ 17.75	\$ 8.09
2.00	\$ 13.14	\$ 5.99	\$ 19.98	\$ 9.10
2.50	\$ 17.36	\$ 7.49	\$ 26.39	\$ 11.38
3.25	\$ 25.58	\$ 9.73	\$ 38.88	\$ 14.78
4.00	\$ 34.47	\$ 11.97	\$ 52.39	\$ 18.19
5.00	\$ 48.20	\$ 14.88	\$ 73.66	\$ 22.74
6.00	\$ 69.54	\$ 17.95	\$ 105.70	\$ 27.28
7.00	\$ 83.77	\$ 20.95	\$ 127.33	\$ 31.84
8.00	\$ 107.70	\$ 23.94	\$ 163.70	\$ 36.38
10.00	\$ 171.84	\$ 29.92	\$ 261.20	\$ 45.47
12.00	\$ 238.32	\$ 35.90	\$ 362.24	\$ 54.56
14.00	\$ 287.91	\$ 41.88	\$ 437.62	\$ 63.66
16.00	\$ 352.95	\$ 47.86	\$ 536.48	\$ 72.75
18.00	\$ 450.88	\$ 53.84	\$ 685.34	\$ 81.84
20.00	\$ 560.84	\$ 59.83	\$ 852.47	\$ 90.93

3TH Series Modifications

Seal Options

3TH ROD SEALS OPTIONS

Rod	Single Rod End			Double Rod End		
	VITON	EPR	TEFLON	VITON	EPR	TEFLON
0.625	\$ 18.38	\$ 20.22	\$ 23.25	\$ 36.77	\$ 40.43	\$ 46.50
1.000	\$ 17.84	\$ 19.63	\$ 22.58	\$ 35.68	\$ 39.25	\$ 45.14
1.375	\$ 23.48	\$ 25.82	\$ 29.70	\$ 46.96	\$ 51.66	\$ 59.39
1.750	\$ 27.49	\$ 30.25	\$ 34.79	\$ 55.00	\$ 60.49	\$ 69.57
2.000	\$ 28.47	\$ 32.73	\$ 37.65	\$ 56.94	\$ 65.47	\$ 75.30
2.500	\$ 36.33	\$ 41.78	\$ 48.04	\$ 72.65	\$ 83.55	\$ 96.09
3.000	\$ 66.41	\$ 76.38	\$ 87.82	\$ 132.82	\$ 152.75	\$ 175.64
3.500	\$ 74.52	\$ 85.69	\$ 98.56	\$ 149.04	\$ 171.40	\$ 197.10
4.000	\$ 88.50	\$ 106.17	\$ 122.11	\$ 176.97	\$ 212.37	\$ 244.21
4.500	\$ 112.86	\$ 135.43	\$ 155.74	\$ 225.71	\$ 270.86	\$ 311.49
5.000	\$ 186.69	\$ 224.03	\$ 257.63	\$ 373.38	\$ 448.06	\$ 515.27
5.500	\$ 253.10	\$ 316.38	\$ 363.83	\$ 506.20	\$ 632.74	\$ 727.66
7.000	\$ 303.72	\$ 379.65	\$ 436.60	\$ 607.44	\$ 759.30	\$ 873.18
8.500	\$ 379.65	\$ 474.56	\$ 545.74	\$ 759.30	\$ 949.12	\$ 1,091.48
10.000	\$ 493.54	\$ 616.93	\$ 709.47	\$ 987.08	\$ 1,233.85	\$ 1,418.93

3TH TUBE SEAL OPTIONS

Bore	VITON w/SCR	VITON	EPR	TEFLON
1.50	\$ 22.25	\$ 35.25	\$ 38.78	\$ 42.66
2.00	\$ 24.81	\$ 44.04	\$ 48.45	\$ 53.30
2.50	\$ 29.62	\$ 51.48	\$ 56.62	\$ 62.29
3.25	\$ 34.97	\$ 58.41	\$ 64.25	\$ 70.67
4.00	\$ 32.64	\$ 72.04	\$ 79.25	\$ 87.18
5.00	\$ 46.38	\$ 115.15	\$ 82.85	\$ 91.14
6.00	\$ 58.23	\$ 140.57	\$ 132.43	\$ 145.68
7.00	\$ 100.80	\$ 291.90	\$ 350.28	\$ 385.30
8.00	\$ 123.13	\$ 304.04	\$ 364.84	\$ 401.32
10.00	\$ 289.01	\$ 395.24	\$ 474.29	\$ 521.72
12.00	\$ 436.91	\$ 513.82	\$ 616.59	\$ 678.23
14.00	\$ 640.43	\$ 667.96	\$ 801.56	\$ 881.71
16.00	\$ 896.60	\$ 935.14	\$ 1,122.17	\$ 1,234.39
18.00	\$ 1,255.22	\$ 1,309.20	\$ 1,571.04	\$ 1,728.14
20.00	\$ 1,757.32	\$ 1,832.87	\$ 2,199.45	\$ 2,419.39

3TH Series Modifications

Supports

3TH INTERNAL STOP OPTION

Bore	Rod	Per Inch of Stop	Stop Collar Base
1.50	0.625	\$ 20.21	\$ 25.60
	1.000	\$ 22.91	\$ 28.29
2.00	1.000	\$ 22.91	\$ 28.29
	1.375	\$ 26.96	\$ 29.65
2.50	1.000	\$ 25.60	\$ 29.65
	1.375	\$ 29.65	\$ 31.00
	1.750	\$ 36.37	\$ 35.05
3.25	1.375	\$ 33.69	\$ 33.69
	1.750	\$ 40.43	\$ 36.37
	2.000	\$ 43.14	\$ 48.52
4.00	1.750	\$ 41.77	\$ 43.14
	2.000	\$ 48.52	\$ 47.16
	2.500	\$ 59.29	\$ 52.55
5.00	2.000	\$ 44.47	\$ 55.26
	2.500	\$ 49.86	\$ 59.29
	3.000	\$ 59.29	\$ 64.69
	3.500	\$ 63.34	\$ 70.07
6.00	2.500	\$ 55.26	\$ 63.34
	3.000	\$ 63.34	\$ 71.42
	3.500	\$ 71.42	\$ 75.47
	4.000	\$ 80.86	\$ 82.20
7.00	3.000	\$ 71.42	\$ 78.15
	3.500	\$ 79.51	\$ 87.59
	4.000	\$ 90.30	\$ 97.03
	4.500	\$ 102.43	\$ 106.45
	5.000	\$ 114.55	\$ 115.90
8.00	3.500	\$ 113.20	\$ 110.51
	4.000	\$ 121.29	\$ 118.59
	4.500	\$ 140.16	\$ 137.45
	5.000	\$ 156.33	\$ 156.33
	5.500	\$ 171.14	\$ 159.01
10.00	4.500	\$ 154.97	\$ 249.30
	5.000	\$ 165.76	\$ 262.77
	5.500	\$ 176.54	\$ 270.87
	7.000	\$ 284.34	\$ 343.63
12.00	5.500	\$ 190.01	\$ 262.77
	7.000	\$ 323.42	\$ 343.63
	8.500	\$ 371.93	\$ 392.15
14.00	7.000	\$ 339.59	\$ 343.63
	8.500	\$ 394.84	\$ 392.15
	10.000	\$ 409.67	\$ 462.21
16.00	8.500	\$ 452.79	\$ 458.17
	10.000	\$ 526.50	\$ 532.75
18.00	10.000	\$ 546.23	\$ 616.29
20.00	10.000	\$ 635.15	\$ 716.61

3TH TIE ROD SUPPORTS

Bore	Per Tie Rod Support
1.50	\$ 116.25
2.00	\$ 146.89
2.50	\$ 147.34
3.25	\$ 179.21
4.00	\$ 193.28
5.00	\$ 229.34

3TH Series Modifications

Tandem Construction

HOW TO PRICE TANDEM CYLINDERS...

To price tandem cylinders, use the following directions:

1. Use base price for double rod end cylinder for forward section plus:
2. Stroke adder for double rod end cylinder x inches of stroke for forward section, plus:
3. Base price for single rod end cylinder for rear section plus:
4. Stroke adder for single rod end cylinder x inches of stroke for rear section, plus:
5. Tandem bearing adder from the table at the right.

ROD DIAMETER In Inches	3THY-7LY-7KY TANDEM BEARING ADDER
0.63	\$ 139.55
1.00	\$ 140.79
1.38	\$ 149.51
1.75	\$ 153.25
2.00	\$ 160.72
2.50	\$ 179.41
3.00	\$ 184.40
3.50	\$ 198.09

3TH Series Modifications

Additional Options and Modifications

3TH KEY RETAINER		3TH TIE ROD EXT.	
Bore	Ext. Key Retainer Plate	BB	Per Inch over BB
1.50	\$ 104.65	1.375	\$ 4.99
2.00	\$ 109.65	1.813	\$ 4.99
2.50	\$ 114.63	1.813	\$ 4.99
3.25	\$ 130.82	2.313	\$ 6.25
4.00	\$ 138.30	2.313	\$ 6.25
5.00	\$ 181.91	3.188	\$ 11.21
6.00	\$ 221.77	3.625	\$ 11.21
7.00	\$ 266.63	4.125	\$ 12.47
8.00	\$ 286.56	4.500	\$ 12.47

3TH STROKE ADJUST		
Bore	Base	Per Inch
1.50	\$ 211.80	\$ 1.24
2.00	\$ 232.98	\$ 2.50
2.50	\$ 241.71	\$ 3.73
3.25	\$ 241.71	\$ 3.73
4.00	\$ 287.80	\$ 4.99
5.00	\$ 301.52	\$ 7.48
6.00	\$ 388.73	\$ 11.21
7.00	\$ 419.87	\$ 12.47
8.00	\$ 447.27	\$ 13.72

3TH WATER FITTED OPTIONS					
Bore	Per Inch of Stroke	NC Base	CCE Base	CHE Base	C2E Base
1.50	\$ 2.50	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
2.00	\$ 3.73	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
2.50	\$ 4.99	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
3.25	\$ 6.25	\$ 346.36	\$ 356.33	\$ 378.75	\$ 388.72
4.00	\$ 7.48	\$ 347.61	\$ 357.58	\$ 380.00	\$ 389.97
5.00	\$ 9.97	\$ 469.70	\$ 484.65	\$ 502.09	\$ 517.04
6.00	\$ 11.21	\$ 541.97	\$ 556.93	\$ 586.83	\$ 601.78
7.00	\$ 14.96	\$ 875.86	\$ 895.80	\$ 920.72	\$ 940.66
8.00	\$ 17.45	\$ 1,377.97	\$ 1,397.90	\$ 1,422.82	\$ 1,442.76

3TH ROD BOOTS		
Rod	Per Inch of Stroke	Base
0.625	\$ 6.25	\$ 166.95
1.000	\$ 6.25	\$ 166.95
1.375	\$ 6.25	\$ 170.69
1.750	\$ 7.48	\$ 185.65
2.000	\$ 7.48	\$ 185.65
2.500	\$ 7.48	\$ 193.12
3.000	\$ 7.48	\$ 193.12
3.500	\$ 9.97	\$ 196.86
4.000	\$ 12.47	\$ 241.71
4.500	\$ 12.47	\$ 241.71
5.000	\$ 12.47	\$ 241.71
5.500	\$ 12.47	\$ 271.61
7.000	\$ 12.47	\$ 271.61
8.500	\$ 13.72	\$ 310.23
10.000	\$ 16.19	\$ 363.81

3TH Series Accessories

Accessories

NFPA Accessories

THREAD SIZE In Inches	ROD CLEVIS			CLEVIS PIN		ROD EYE		BASE PIVOT	
	PART NO.	DIM 'CE'	PRICE	PART NO.	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	517-05	1.50	\$ 29.91	KY8658-1	\$ 9.97	Y8422	\$ 27.42	Y8430	\$ 54.82
.50"-20	521957	1.50	\$ 31.15	KY8658-1	\$ 9.97		\$ -	Y8430	\$ 54.82
.75"-16	517-07-M	2.13	\$ 46.10	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
	517-07	2.38	\$ 49.84	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
1.00"-14	517-10-M	2.94	\$ 58.56	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
	517-10	3.13	\$ 62.30	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
1.25"-12	517-13-M	3.75	\$ 84.73	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
	517-13	4.13	\$ 85.97	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
1.50"-12	517-17	4.50	\$ 117.12	KY8658-5	\$ 33.64	Y8426	\$ 114.63	Y8434	\$ 225.51
1.88"-12	517-20	5.50	\$ 224.27	KY8658-6	\$ 38.62	Y8427	\$ 228.00	Y8435	\$ 308.99
2.25"-12	517-25	6.50	\$ 392.46	KY8658-17	\$ 88.45	Y8428	\$ 372.53	Y8436	\$ 500.85
2.50"-12	517-30-M	6.75	\$ 548.20	KY8658-18	\$ 138.30	Y8429	\$ 464.73	Y8437	\$ 958.10
3.25"-12	517-35-M	7.75	\$ 988.01	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
	517-35	8.50	\$ 1,019.16	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
3.50"-12	516	10.00	\$ 1,161.17	KY8658-20	\$ 271.61	905-35-M	\$ 1,151.23	82277-001	\$ 1,599.73
4.00"-12	517-40	10.00	\$ 1,273.32	KY8658-20	\$ 271.61	905-40	\$ 1,419.09	82277-001	\$ 1,599.73
5.00"-12				KY8658-21	\$ 508.33	Y8566	\$ 2,453.18	82278	\$ 2,223.95

NFPA Accessories

THREAD SIZE In Inches	BASE CLEVIS		JAM NUT		LINEAR ALIGN. CPLR	
	PART NO. TAP HOLES	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	77500	\$ 85.97	13-720	\$ 2.50	788-.437	\$ 76.00
.50"-20	77500	\$ 85.97	13-820	\$ 3.73	788-.500	\$ 80.98
.75"-16	77501	\$ 103.41	13-1216	\$ 3.73	788-.750	\$ 100.91
	77501	\$ 103.41	13-1216	\$ 3.73	788-.750	\$ 100.91
1.00"-14	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
1.25"-12	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
1.50"-12	77504	\$ 292.79	13-2412	\$ 26.16	788-1.500	\$ 383.75
1.88"-12	77505	\$ 752.53	13-3012	\$ 51.08	788-1.875	\$ 631.67
2.25"-12	88770	\$ 907.02	13-3612	\$ 80.98	788-2.250	\$ 1,040.34
2.50"-12	88771	\$ 1,179.88	13-4012	\$ 83.48	788-2.500	\$ 1,315.67
3.25"-12	88772	\$ 1,576.07	13-5212	\$ 843.47		
	88772	\$ 1,576.07	13-5212	\$ 843.47		
3.50"-12	88773	\$ 1,998.43				
4.00"-12	88773	\$ 1,998.43				
5.00"-12	88774	\$ 3,976.92				

3TH Series Accessories

Accessories

NFPA Accessories

ROD DIA. IN INCHES	FLANGED ROD COUPLING		FASTENERS			WELD PLATES	
	PART NUMBER	PRICE	PART NUMBER	REQ'D QTY	PRICE EACH	PART NUMBER	PRICE
0.63	902-062	\$ 95.93	89-1024-1.000	4	\$ 0.63	903-062	\$ 76.00
1.00	902-100	\$ 125.83	89-420-1.250	6	\$ 0.68	903-100	\$ 95.93
1.38	902-137	\$ 148.26	89-518-1.500	6	\$ 0.72	903-137	\$ 117.12
1.75	902-175	\$ 201.84	89-518-1.750	8	\$ 0.81	903-175	\$ 154.49
2.00	902-200	\$ 331.42	89-616-2.250	12	\$ 1.45	903-200	\$ 240.46
2.50	902-250	\$ 412.39	89-616-2.500	12	\$ 1.58	903-250	\$ 259.15
3.00	902-300	\$ 546.95	89-813-3.250	12	\$ 3.57	903-300	\$ 279.09
3.50	902-350	\$ 687.74	89-1011-3.500	12	\$ 7.00	903-350	\$ 345.11
4.00	902-400	\$ 844.72	89-1011-3.500	12	\$ 7.00	903-400	\$ 375.11
4.50	902-450	\$ 924.47	89-1011-4.000	12	\$ 7.91	903-450	\$ 409.90
5.00	902-500	\$ 1,249.63	89-1011-4.000	12	\$ 7.91	903-500	\$ 443.55
5.50	902-550	\$ 1,304.47	89-1210-5.000	12	\$ 11.32	903-550	\$ 584.33

Accessories

SPHERICAL ROD EYES			BASE CLEVIS FOR SPHERICAL ROD EYES			PIVOT PINS FOR SPHERICAL ROD EYES		
THREAD SIZE	PART NUMBER	PRICE	'CS' DIM.	PART NUMBER	PRICE	'CD' DIM.	PART NUMBER	PRICE
.44"-20	79787-1	\$ 79.74	0.6875	79788	\$ 112.13	82	K79791	\$ 32.39
.75"-16	79787-2	\$ 119.60	0.9375	79789	\$ 143.28	104	K79792	\$ 42.36
1.00"-14	79787-3	\$ 188.13	1.4375	79780	\$ 171.94	125	K79793	\$ 61.05

Heavy Duty Spherical Rod Eyes

PART NUMBER	CD	A	CE	EX	ER	LE	KK	LOAD CAPACITY	LIST PRICE
588-1	.5000-.0005	0.69	0.88	0.44	0.88	0.75	.44"-20	2644	\$ 93.44
588-2	.7500-.0005	1.00	1.25	0.66	1.25	1.06	.75"-16	9441	\$ 113.38
588-3	1.000-.0005	1.50	1.88	0.88	1.38	1.44	1.00"-14	16860	\$ 125.83
588-4	1.375-.0005	2.00	2.13	1.19	1.81	1.88	1.25"-12	28562	\$ 186.89
588-5	1.750-.0005	2.13	2.13	1.53	2.19	2.13	1.50"-12	43005	\$ 442.30
588-6	2.000-.0005	2.88	2.50	1.75	2.63	2.50	1.125"-12	70193	\$ 591.80

3TH Series Accessories

Switches

3TH Strokemaster Proximity Switch Options

Bore Size	DC Micro Connector		AC/DC Micro Connector		AC/DC Mini Connector	
	Part #	Price	Part #	Price	Part #	Price
1.50	787-1	\$ 220.48	787-7-1025	\$ 237.12	787-8-1025	\$ 237.12
2.00	787-2	\$ 220.48	787-7-1250	\$ 237.12	787-8-1250	\$ 237.12
2.50	787-3	\$ 220.48	787-7-2062	\$ 237.12	787-8-2062	\$ 237.12
3.25	787-3	\$ 220.48	787-7-2062	\$ 237.12	787-8-2062	\$ 237.12
4.00	787-3	\$ 220.48	787-7-2062	\$ 237.12	787-8-2062	\$ 237.12
5.00	787-4	\$ 220.48	787-7-2875	\$ 237.12	787-8-2875	\$ 237.12
6.00	787-5	\$ 220.48	787-7-3775	\$ 237.12	787-8-3775	\$ 237.12
7.00	787-5	\$ 220.48	787-7-3775	\$ 237.12	787-8-3775	\$ 237.12
8.00	787-5	\$ 220.48	787-7-3775	\$ 237.12	787-8-3775	\$ 237.12

3TH Standard Dynaswitch Options

Bore	Rod	Head End		Cap End	
		Part #	Price	Part #	Price
1.50	0.625	355-7	\$ 273.71	355-7	\$ 273.71
	1.000	355-7	\$ 273.71	355-7	\$ 273.71
2.00	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
2.50	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
	1.750	355-7	\$ 273.71	355-7	\$ 273.71
3.25	1.375	355-7	\$ 273.71	355-7	\$ 273.71
	1.750	355-7	\$ 273.71	355-7	\$ 273.71
	2.000	355-7	\$ 273.71	355-7	\$ 273.71
4.00	1.750	355-7	\$ 273.71	355-7	\$ 273.71
	2.000	355-7	\$ 273.71	355-7	\$ 273.71
	2.500	355-7	\$ 273.71	355-7	\$ 273.71
5.00	2.000	355-7	\$ 273.71	355-8	\$ 302.46
	2.500	355-7	\$ 273.71	355-8	\$ 302.46
	3.000	355-7	\$ 273.71	355-8	\$ 302.46
	3.500	355-7	\$ 273.71	355-8	\$ 302.46
6.00	2.500	355-8	\$ 302.46	355-8	\$ 302.46
	3.000	355-7	\$ 273.71	355-8	\$ 302.46
	3.500	355-7	\$ 273.71	355-8	\$ 302.46
	4.000	355-7	\$ 273.71	355-8	\$ 302.46
7.00	3.000	355-8	\$ 302.46	355-8	\$ 302.46
	3.500	355-8	\$ 302.46	355-8	\$ 302.46
	4.000	355-7	\$ 273.71	355-8	\$ 302.46
	4.500	355-7	\$ 273.71	355-8	\$ 302.46
	5.000	355-7	\$ 273.71	355-8	\$ 302.46
8.00	3.500	355-8	\$ 302.46	355-8	\$ 302.46
	4.000	355-8	\$ 302.46	355-8	\$ 302.46
	4.500	355-8	\$ 302.46	355-8	\$ 302.46
	5.000	355-7	\$ 273.71	355-8	\$ 302.46
	5.500	355-7	\$ 273.71	355-8	\$ 302.46

Consult Factory for Q, QQ, P, & PP mounting styles.

Switches are sold separately.

Please see Port Options for cylinder switch prep adders.

3TH Series Accessories

LDT Probes & Accessories

Nominal Stroke Length	Balluff Z Style LDT - 3THX, 7LX			
	Analog		Digital	
	0-10VDC	4-20MA	PWM	PWR
3	\$ 910.00	\$ 910.00	\$ 735.28	\$ 833.04
6	\$ 928.72	\$ 928.72	\$ 751.92	\$ 833.04
9	\$ 946.40	\$ 946.40	\$ 769.60	\$ 851.76
12	\$ 965.12	\$ 965.12	\$ 787.28	\$ 871.52
15	\$ 983.84	\$ 983.84	\$ 806.00	\$ 906.88
18	\$ 1,002.56	\$ 1,002.56	\$ 825.76	\$ 913.12
20	\$ 1,021.28	\$ 1,021.28	\$ 845.52	\$ 933.92
24	\$ 1,040.00	\$ 1,040.00	\$ 863.20	\$ 954.72
30	\$ 1,060.80	\$ 1,060.80	\$ 881.92	\$ 983.84
36	\$ 1,096.16	\$ 1,096.16	\$ 918.32	\$ 1,016.08
42	\$ 1,137.76	\$ 1,137.76	\$ 959.92	\$ 1,061.84
48	\$ 1,174.16	\$ 1,174.16	\$ 998.40	\$ 1,102.40
50	\$ 1,215.76	\$ 1,215.76	\$ 1,037.92	\$ 1,107.60

False Stage Protectors

For Z Style LDT Probes. Must be used with G, D, & SP mounting styles. Protector is full bore diameter and shares common tie rods with the cylinder.

Heavy Duty Enclosure

For Z Style LDT Probes. 2.50" and 3.25" Protector is full bore diameter and shares common tie rods with cylinder. 4.00" through 8.00" Protectors have 3.50" square caps and independent tie rods.

Bore	3TH Series	7 Series
2.50	\$ 286.05	\$ 171.66
3.25	\$ 383.17	\$ 227.05
4.00	\$ 425.37	\$ 234.74
5.00	\$ 581.45	\$ 286.56
6.00	\$ 626.28	\$ 332.59
7.00	\$ 846.81	\$ -
8.00	\$ 992.53	\$ 504.53

Bore	Enclosure
2.50	\$ 286.05
3.25	\$ 383.17
4.00	\$ 286.05
5.00	\$ 286.05
6.00	\$ 286.05
7.00	\$ 286.05
8.00	\$ 286.05

Cables and Connectors for LDTs

Cables and Connectors	S32 Connector	S33 Connector	S140 Connector
Connector Only	BKS-S32M-00 \$50.96	BKS-S33M-00 \$50.96	BKS-S140-00 \$84.24
2m Cable w/ connector	BKS-S32M-02 \$100.88	BKS-S33M-03 \$100.88	BKS-S140-03 \$124.80
5m Cable w/ connector	BKS-S32M-05 \$110.24	BKS-S33-05 \$110.24	BKS-S140-05 \$139.36
10m cable w/ connector	BKS-S32M-10 \$135.20	BKS-S33-10 \$135.20	BKS-S140-10 \$175.76

3TH Series Service Kits

Rod Gland Kits

3TH Rod Gland kits

Rod	Polyurethane		Viton		EPR	
0.625	RG003530010	\$ 95.80	RG003530011	\$ 127.73	RG003530012	\$ 135.17
1.000	RG003530020	\$ 111.77	RG003530021	\$ 148.06	RG003530022	\$ 153.74
1.375	RG003530030	\$ 156.76	RG003530031	\$ 209.01	RG003530032	\$ 213.94
1.750	RG003530040	\$ 194.50	RG003530041	\$ 258.36	RG003530042	\$ 263.65
2.000	RG003530050	\$ 254.00	RG003530051	\$ 335.29	RG003530052	\$ 337.52
2.500	RG003530060	\$ 319.31	RG003530061	\$ 420.91	RG003530062	\$ 424.96
3.000	RG003530070	\$ 470.26	RG003530071	\$ 619.75	RG003530072	\$ 640.68
3.500	RG003530080	\$ 526.87	RG003530081	\$ 696.69	RG003530082	\$ 717.94
4.000	RG003530090	\$ 695.24	RG003530091	\$ 918.75	RG003530092	\$ 940.45
4.500	RG003530100	\$ 775.06	RG003530101	\$ 1,021.80	RG003530102	\$ 1,065.49
5.000	RG003530110	\$ 876.66	RG003530111	\$ 1,156.78	RG003530112	\$ 1,276.01
5.500	RG003530120	\$ 1,672.58	RG003530121	\$ 1,352.71	RG003530122	\$ 2,323.47

3TH Rod Gland Kits

Rod	Buna		Teflon	
0.625	RG003530010B	\$ 95.80	RG003530014	\$ 138.21
1.000	RG003530020B	\$ 111.77	RG003530024	\$ 156.69
1.375	RG003530030B	\$ 156.76	RG003530034	\$ 217.82
1.750	RG003530040B	\$ 194.50	RG003530044	\$ 268.17
2.000	RG003530050B	\$ 254.00	RG003530054	\$ 342.45
2.500	RG003530060B	\$ 319.31	RG003530064	\$ 431.21
3.000	RG003530070B	\$ 470.26	RG003530074	\$ 652.13
3.500	RG003530080B	\$ 526.87	RG003530084	\$ 730.80
4.000	RG003530090B	\$ 695.24	RG003530094	\$ 956.39
4.500	RG003530100B	\$ 775.06	RG003530104	\$ 1,085.80
5.000	RG003530110B	\$ 876.66	RG003530114	\$ 1,309.62
5.500	RG003530120B	\$ 1,672.58	RG003530124	\$ 2,370.92

3TH Series Service Kits

Rod Seal Kits

3TH Rod Seal Kits

Rod	Polyurethane		Buna		Viton	
0.625	RS003540010	\$ 60.97	RS003540010B	\$ 60.97	RS003540011	\$ 91.45
1.000	RS003540020	\$ 69.68	RS003540020B	\$ 69.68	RS003540021	\$ 103.05
1.375	RS003540030	\$ 89.99	RS003540030B	\$ 89.99	RS003540031	\$ 139.34
1.750	RS003540040	\$ 103.05	RS003540040B	\$ 103.05	RS003540041	\$ 166.92
2.000	RS003540050	\$ 150.95	RS003540050B	\$ 150.95	RS003540051	\$ 229.32
2.500	RS003540060	\$ 172.73	RS003540060B	\$ 172.73	RS003540061	\$ 272.87
3.000	RS003540070	\$ 191.59	RS003540070B	\$ 191.59	RS003540071	\$ 335.28
3.500	RS003540080	\$ 198.84	RS003540080B	\$ 198.84	RS003540081	\$ 367.21
4.000	RS003540090	\$ 316.42	RS003540090B	\$ 316.42	RS003540091	\$ 537.02
4.500	RS003540100	\$ 343.98	RS003540100B	\$ 343.98	RS003540101	\$ 589.27
5.000	RS003540110	\$ 396.24	RS003540110B	\$ 396.24	RS003540111	\$ 674.91
5.500	RS003540120	\$ 496.39	RS003540120B	\$ 496.39	RS003540121	\$ 821.50

3TH Rod Seal Kits

Rod	EPR		Water		Teflon	
0.625	RS003540012	\$ 111.66	RS003540010W	\$ 60.97	RS003540014	\$ 114.69
1.000	RS003540022	\$ 122.68	RS003540020W	\$ 69.68	RS003540024	\$ 125.63
1.375	RS003540032	\$ 165.15	RS003540030W	\$ 89.99	RS003540034	\$ 169.03
1.750	RS003540042	\$ 197.17	RS003540040W	\$ 103.05	RS003540044	\$ 201.69
2.000	RS003540052	\$ 262.05	RS003540050W	\$ 150.95	RS003540054	\$ 266.97
2.500	RS003540062	\$ 314.65	RS003540060W	\$ 172.73	RS003540064	\$ 320.91
3.000	RS003540072	\$ 411.65	RS003540070W	\$ 191.59	RS003540074	\$ 423.10
3.500	RS003540082	\$ 452.91	RS003540080W	\$ 198.84	RS003540084	\$ 465.76
4.000	RS003540092	\$ 643.20	RS003540090W	\$ 316.42	RS003540094	\$ 659.12
4.500	RS003540102	\$ 724.69	RS003540100W	\$ 343.98	RS003540104	\$ 745.02
5.000	RS003540112	\$ 898.93	RS003540110W	\$ 396.24	RS003540114	\$ 932.54
5.500	RS003540122	\$ 1,137.87	RS003540120W	\$ 496.39	RS003540124	\$ 1,185.33

3TH Series Service Kits

Tube Seal Kits

3TH U-Cup Piston Tube Seal Kits

Bore	Polyurethane		Viton		EPR	
1.50	TS523511000	\$ 60.97	TS523511001	\$ 78.39	TS523511002	\$ 99.74
2.00	TS533511000	\$ 79.83	TS533511001	\$ 104.50	TS533511002	\$ 128.27
2.50	TS543511000	\$ 85.64	TS543511001	\$ 113.23	TS543511002	\$ 142.27
3.25	TS563511000	\$ 90.00	TS563511001	\$ 119.03	TS563511002	\$ 154.24
4.00	TS583511000	\$ 108.86	TS583511001	\$ 142.25	TS583511002	\$ 188.11
5.00	TS593511000	\$ 114.67	TS593511001	\$ 150.96	TS593511002	\$ 197.52
6.00	TS603511000	\$ 169.82	TS603511001	\$ 223.53	TS603511002	\$ 302.25
7.00	TS613511000	\$ 245.30	TS613511001	\$ 322.22	TS613511002	\$ 595.57
8.00	TS623511000	\$ 272.87	TS623511001	\$ 361.40	TS623511002	\$ 637.71
10.00	TS633511000	\$ 419.30	TS633511001	\$ 466.01	TS633511002	\$ 893.58
12.00	TS643511000	\$ 483.77	TS643511001	\$ 522.08	TS643511002	\$ 1,100.35
14.00	TS653511000	\$ 1,381.58				
16.00	TS663511000	\$ 1,557.84				
18.00	TS673511000	\$ 2,612.52				
20.00	TS683511000	\$ 2,808.47				

3TH Block Vee Piston Tube Seal Kits

Bore	Viton		Buna		Water-Fitted	
1.50	TS523512001	\$ 78.39	TS523512000	\$ 60.97	TS523512000G	\$ 60.97
2.00	TS533512001	\$ 104.50	TS533512000	\$ 79.83	TS533512000G	\$ 79.83
2.50	TS543512001	\$ 113.23	TS543512000	\$ 85.64	TS543512000G	\$ 85.64
3.25	TS563512001	\$ 119.03	TS563512000	\$ 90.00	TS563512000G	\$ 90.00
4.00	TS583512001	\$ 142.25	TS583512000	\$ 108.86	TS583512000G	\$ 108.86
5.00	TS593512001	\$ 150.96	TS593512000	\$ 114.67	TS593512000G	\$ 114.67
6.00	TS603512001	\$ 223.53	TS603512000	\$ 169.82	TS603512000G	\$ 169.82
7.00	TS613512001	\$ 322.22	TS613512000	\$ 245.30	TS613512000G	\$ 245.30
8.00	TS623512001	\$ 361.40	TS623512000	\$ 272.87	TS623512000G	\$ 272.87

3TH SCR Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS523510000	\$ 21.78	TS523510001	\$ 30.49	TS523510002	\$ 35.87
2.00	TS533510000	\$ 24.68	TS533510001	\$ 31.93	TS533510002	\$ 37.58
2.50	TS543510000	\$ 24.68	TS543510001	\$ 34.84	TS543510002	\$ 40.99
3.25	TS563510000	\$ 27.59	TS563510001	\$ 36.29	TS563510002	\$ 42.69
4.00	TS583510000	\$ 71.13	TS583510001	\$ 92.89	TS583510002	\$ 109.30
5.00	TS593510000	\$ 72.57	TS593510001	\$ 95.80	TS593510002	\$ 112.70
6.00	TS603510000	\$ 76.94	TS603510001	\$ 101.61	TS603510002	\$ 119.54
7.00	TS613510000	\$ 121.93	TS613510001	\$ 159.67	TS613510002	\$ 187.84
8.00	TS623510000	\$ 129.19	TS623510001	\$ 169.82	TS623510002	\$ 199.80
10.00	TS633510000	\$ 156.16	TS633510001	\$ 199.58	TS633510002	\$ 234.79
12.00	TS643510000	\$ 183.71	TS643510001	\$ 234.79	TS643510002	\$ 276.23
14.00	TS653510000	\$ 216.14	TS653510001	\$ 276.23	TS653510002	\$ 324.98
16.00	TS663510000	\$ 254.26	TS663510001	\$ 324.98	TS663510002	\$ 382.33
18.00	TS673510000	\$ 299.13	TS673510001	\$ 382.33	TS673510002	\$ 449.79
20.00	TS683510000	\$ 351.92	TS683510001	\$ 449.79		

7 Series Price Guide

- **Standard terms and Conditions**
- **7L – NFPA Pressure Rated Hydraulic Cylinders**
 - 1.50"-6.00" Single Rod End Cylinders
 - 1.50"-6.00" Double Rod End Cylinders
 - 8.00"-14.00" Single Rod End Cylinders
 - 8.00"-14.00" Double Rod End Cylinders
- **7K – NFPA Heavy Duty Pneumatic 250 PSI Cylinders**
 - 1.50"-6.00" Single Rod End Cylinders
 - 1.50"-6.00" Double Rod End Cylinders
 - 8.00"-14.00" Single Rod End Cylinders
 - 8.00"-14.00" Double Rod End Cylinders
 - 16.00"-20.00" Single and Double Rod End Cylinders
- **7KA – NFPA Aluminum Barrel Cylinders**
 - 1.50"-6.00" Single Rod End Cylinders
 - 1.50"-6.00" Double Rod End Cylinders
 - 8.00" Single and Double Rod End Cylinders
- **7LX – Electrohydraulic Pressure Rated Cylinders**
 - 2.50"-6.00" Single Rod End Cylinders
- **7KX – Electropneumatic Aluminum Barrel Cylinders**
 - 1.50"-6.00" Single Rod End Cylinders
 - 1.50"-6.00" Double Rod End Cylinders
- **7 Series Modifications**
 - Port Options
 - Rod End Modifications
 - Material Options
 - Seal Options
 - Supports
 - Tandem Construction
 - Additional Options and Modifications
- **7 Series Accessories**
 - Accessories
 - Switches
 - LDT Probes and Accessories
- **7 Series Service Kits**
 - Rod Gland Kits
 - Rod Seal Kits
 - Tube Seal Kits

Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

7L – NFPA Pressure Rated Hydraulic

1.50”-6.00” Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

7L Single Rod End

Bore	Rod	Per Inch of Stroke	A*B*H	ER*EB*CC*SP* PP*QQ	G*J*Q*P*BB*A A*D*R*Z	K*E	L*M*N*O
1.50	0.625	\$ 4.99	\$ 266.62	\$ 325.17	\$ 286.55	\$ 376.26	\$ 260.38
	1.000	\$ 6.25	\$ 325.17	\$ 350.09	\$ 328.91	\$ 422.35	\$ 310.22
2.00	0.625	\$ 6.25	\$ 291.53	\$ 356.32	\$ 308.98	\$ 428.58	\$ 284.05
	1.000	\$ 6.25	\$ 367.53	\$ 419.86	\$ 391.20	\$ 469.69	\$ 340.12
	1.375	\$ 9.97	\$ 376.26	\$ 449.77	\$ 418.62	\$ 505.84	\$ 373.77
2.50	0.625	\$ 6.25	\$ 306.48	\$ 377.49	\$ 325.17	\$ 459.72	\$ 292.78
	1.000	\$ 7.48	\$ 384.97	\$ 442.29	\$ 406.15	\$ 524.51	\$ 375.00
	1.375	\$ 9.97	\$ 424.84	\$ 482.15	\$ 448.53	\$ 568.13	\$ 416.12
	1.750	\$ 11.21	\$ 447.26	\$ 528.26	\$ 489.63	\$ 611.73	\$ 444.78
3.25	1.000	\$ 11.21	\$ 389.97	\$ 485.90	\$ 416.13	\$ 551.94	\$ 377.50
	1.375	\$ 13.72	\$ 502.10	\$ 568.14	\$ 519.54	\$ 639.14	\$ 480.93
	1.750	\$ 13.72	\$ 535.74	\$ 610.49	\$ 564.39	\$ 687.74	\$ 518.31
	2.000	\$ 14.96	\$ 579.34	\$ 655.35	\$ 608.00	\$ 742.57	\$ 566.89
4.00	1.000	\$ 11.21	\$ 447.27	\$ 570.62	\$ 475.94	\$ 639.14	\$ 442.30
	1.375	\$ 13.72	\$ 551.94	\$ 636.66	\$ 584.33	\$ 722.63	\$ 541.97
	1.750	\$ 14.96	\$ 594.30	\$ 681.52	\$ 624.20	\$ 777.45	\$ 575.62
	2.000	\$ 16.19	\$ 644.14	\$ 733.83	\$ 675.29	\$ 836.00	\$ 631.67
	2.500	\$ 18.69	\$ 705.19	\$ 792.41	\$ 736.34	\$ 898.29	\$ 692.72
5.00	1.000	\$ 14.96	\$ 527.02	\$ 664.06	\$ 550.70	\$ 789.90	\$ 522.04
	1.375	\$ 16.19	\$ 655.35	\$ 761.25	\$ 686.49	\$ 884.60	\$ 626.68
	1.750	\$ 17.45	\$ 708.92	\$ 811.08	\$ 740.07	\$ 931.94	\$ 674.04
	2.000	\$ 18.69	\$ 762.50	\$ 868.41	\$ 794.89	\$ 988.01	\$ 757.51
	2.500	\$ 21.20	\$ 824.79	\$ 934.44	\$ 857.19	\$ 1,051.54	\$ 803.61
	3.000	\$ 26.16	\$ 910.76	\$ 1,014.17	\$ 935.67	\$ 1,184.85	\$ 890.81
	3.500	\$ 28.67	\$ 1,000.46	\$ 1,117.58	\$ 1,034.11	\$ 1,277.06	\$ 978.04
6.00	1.375	\$ 18.69	\$ 703.93	\$ 898.29	\$ 733.83	\$ 1,046.56	\$ 681.52
	1.750	\$ 18.69	\$ 869.65	\$ 944.39	\$ 904.53	\$ 1,173.63	\$ 839.75
	2.000	\$ 21.20	\$ 931.94	\$ 1,046.56	\$ 959.35	\$ 1,220.98	\$ 903.28
	2.500	\$ 23.67	\$ 1,000.46	\$ 1,125.05	\$ 1,035.34	\$ 1,294.49	\$ 969.31
	3.000	\$ 27.42	\$ 1,082.69	\$ 1,243.41	\$ 1,108.84	\$ 1,386.69	\$ 1,051.54
	3.500	\$ 31.15	\$ 1,168.65	\$ 1,253.37	\$ 1,223.48	\$ 1,473.90	\$ 1,146.22
	4.000	\$ 34.88	\$ 1,300.72	\$ 1,518.76	\$ 1,338.10	\$ 1,592.25	\$ 1,277.06

* Additional charges may apply for cylinder modifications.

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50”-2.50” bore cylinders with maximum rod diameters. For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

7L – NFPA Pressure Rated Hydraulic

1.50"-6.00" Double Rod End

How to Price:

7L Double Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

Bore	Rod	Per Inch of Stroke	B*H	CC*ER*QQ	J*Q*BB	K*E	L*M*O
1.50	0.625	\$ 6.25	\$ 448.53	\$ 507.07	\$ 467.20	\$ 558.16	\$ 441.05
	1.000	\$ 7.48	\$ 546.94	\$ 573.11	\$ 550.68	\$ 644.13	\$ 531.98
2.00	0.625	\$ 7.48	\$ 477.17	\$ 541.96	\$ 494.62	\$ 690.23	\$ 469.69
	1.000	\$ 9.97	\$ 596.78	\$ 649.10	\$ 620.46	\$ 698.94	\$ 568.13
	1.375	\$ 12.47	\$ 640.39	\$ 713.90	\$ 682.76	\$ 769.97	\$ 637.90
2.50	0.625	\$ 9.97	\$ 500.84	\$ 573.11	\$ 519.53	\$ 655.34	\$ 488.39
	1.000	\$ 9.97	\$ 626.67	\$ 682.76	\$ 646.61	\$ 764.97	\$ 614.22
	1.375	\$ 12.47	\$ 696.44	\$ 756.25	\$ 721.37	\$ 840.97	\$ 690.23
	1.750	\$ 14.96	\$ 789.89	\$ 870.88	\$ 831.01	\$ 954.36	\$ 787.40
3.25	1.000	\$ 12.47	\$ 646.62	\$ 742.57	\$ 672.79	\$ 808.60	\$ 632.92
	1.375	\$ 16.19	\$ 827.29	\$ 894.56	\$ 845.98	\$ 963.08	\$ 806.10
	1.750	\$ 17.45	\$ 926.96	\$ 1,001.71	\$ 954.37	\$ 1,076.46	\$ 909.51
	2.000	\$ 19.94	\$ 1,017.91	\$ 1,091.42	\$ 1,044.08	\$ 1,179.88	\$ 1,005.44
4.00	1.000	\$ 13.72	\$ 741.31	\$ 863.41	\$ 768.72	\$ 930.70	\$ 736.34
	1.375	\$ 16.19	\$ 905.77	\$ 988.01	\$ 938.16	\$ 1,075.22	\$ 894.56
	1.750	\$ 18.69	\$ 989.25	\$ 1,077.70	\$ 1,019.16	\$ 1,173.65	\$ 971.82
	2.000	\$ 19.94	\$ 1,082.69	\$ 1,172.40	\$ 1,112.59	\$ 1,273.33	\$ 1,070.22
	2.500	\$ 26.16	\$ 1,154.95	\$ 1,240.92	\$ 1,186.11	\$ 1,348.06	\$ 1,142.49
5.00	1.000	\$ 16.19	\$ 849.72	\$ 988.01	\$ 874.63	\$ 1,112.59	\$ 844.72
	1.375	\$ 18.69	\$ 1,044.08	\$ 1,151.23	\$ 1,075.22	\$ 1,274.57	\$ 1,017.91
	1.750	\$ 21.20	\$ 1,113.85	\$ 1,218.49	\$ 1,146.23	\$ 1,339.35	\$ 1,080.20
	2.000	\$ 23.67	\$ 1,237.18	\$ 1,343.08	\$ 1,269.58	\$ 1,462.69	\$ 1,232.20
	2.500	\$ 29.91	\$ 1,365.51	\$ 1,473.90	\$ 1,397.90	\$ 1,591.02	\$ 1,343.08
	3.000	\$ 34.88	\$ 1,522.50	\$ 1,635.88	\$ 1,548.66	\$ 1,796.60	\$ 1,502.56
6.00	3.500	\$ 42.36	\$ 1,690.69	\$ 1,809.05	\$ 1,724.33	\$ 1,968.53	\$ 1,669.50
	1.375	\$ 21.20	\$ 1,151.23	\$ 1,348.06	\$ 1,183.60	\$ 1,493.84	\$ 1,130.03
	1.750	\$ 23.67	\$ 1,389.18	\$ 1,465.18	\$ 1,422.82	\$ 1,694.43	\$ 1,359.29
	2.000	\$ 26.16	\$ 1,500.07	\$ 1,613.45	\$ 1,526.24	\$ 1,787.87	\$ 1,470.16
	2.500	\$ 31.15	\$ 1,635.88	\$ 1,761.71	\$ 1,670.77	\$ 1,931.15	\$ 1,604.72
	3.000	\$ 37.39	\$ 1,792.86	\$ 1,953.58	\$ 1,817.77	\$ 2,096.85	\$ 1,760.46
	3.500	\$ 44.86	\$ 1,898.75	\$ 1,983.48	\$ 1,954.82	\$ 2,202.76	\$ 1,877.58
4.000	\$ 51.08	\$ 2,137.97	\$ 2,357.25	\$ 2,176.60	\$ 2,430.75	\$ 2,115.54	

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7L – NFPA Pressure Rated Hydraulic

8.00"-14.00" Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7L Single Rod End

Bore	Rod	Per Inch of Stroke	ER*EB*CC	G*J*SP*QQ*PP *D*R*Z	H	K*E	L*M*N*O
8.00	1.375	\$ 23.67	\$ 1,219.75	\$ 1,011.68	\$ 961.85	\$ 1,480.13	\$ 929.44
	1.750	\$ 26.16	\$ 1,330.64	\$ 1,228.47	\$ 1,173.65	\$ 1,729.31	\$ 1,140.00
	2.000	\$ 27.42	\$ 1,394.16	\$ 1,278.30	\$ 1,224.72	\$ 1,799.08	\$ 1,189.84
	2.500	\$ 29.91	\$ 1,502.56	\$ 1,355.54	\$ 1,334.36	\$ 1,896.27	\$ 1,305.72
	3.000	\$ 33.64	\$ 1,574.82	\$ 1,492.59	\$ 1,386.69	\$ 2,025.84	\$ 1,334.36
	3.500	\$ 36.13	\$ 1,719.34	\$ 1,617.19	\$ 1,578.57	\$ 2,154.17	\$ 1,554.88
	4.000	\$ 42.36	\$ 1,848.91	\$ 1,740.53	\$ 1,701.91	\$ 2,283.74	\$ 1,679.48
	4.500	\$ 46.10	\$ 1,946.10	\$ 1,835.22	\$ 1,795.35	\$ 2,379.67	\$ 1,771.68
	5.000	\$ 54.82	\$ 2,140.46	\$ 2,020.85	\$ 1,983.48	\$ 2,575.28	\$ 1,963.53
10.00	1.750	\$ 44.86	\$ 1,537.44	\$ 1,431.55	\$ 1,382.95	\$ 2,211.48	\$ 1,356.78
	2.000	\$ 46.10	\$ 1,806.55	\$ 1,690.69	\$ 1,640.86	\$ 2,481.84	\$ 1,617.19
	2.500	\$ 46.10	\$ 1,968.53	\$ 1,846.43	\$ 1,797.84	\$ 2,641.31	\$ 1,771.68
	3.000	\$ 53.57	\$ 2,007.16	\$ 1,883.81	\$ 1,835.22	\$ 2,681.17	\$ 1,811.55
	3.500	\$ 59.82	\$ 2,131.74	\$ 2,004.65	\$ 1,953.58	\$ 2,800.80	\$ 1,929.91
	4.000	\$ 66.02	\$ 2,284.98	\$ 2,151.68	\$ 2,103.08	\$ 2,959.01	\$ 2,078.16
	4.500	\$ 77.25	\$ 2,440.71	\$ 2,318.62	\$ 2,251.35	\$ 3,112.27	\$ 2,226.43
	5.000	\$ 92.20	\$ 2,625.11	\$ 2,478.09	\$ 2,429.50	\$ 3,299.15	\$ 2,405.83
	5.500	\$ 97.18	\$ 2,840.66	\$ 2,686.17	\$ 2,637.57	\$ 3,513.43	\$ 2,611.41
12.00	2.000	\$ 71.02	\$ 2,181.58	\$ 2,043.27	\$ 1,979.74	\$ 3,076.13	\$ 1,953.58
	2.500	\$ 73.50	\$ 2,373.45	\$ 2,226.43	\$ 2,164.14	\$ 3,266.76	\$ 2,136.73
	3.000	\$ 78.50	\$ 2,531.67	\$ 2,378.43	\$ 2,316.14	\$ 3,424.98	\$ 2,289.97
	3.500	\$ 85.97	\$ 2,689.90	\$ 2,530.42	\$ 2,468.14	\$ 3,583.22	\$ 2,441.98
	4.000	\$ 97.18	\$ 2,846.89	\$ 2,709.83	\$ 2,622.62	\$ 3,742.69	\$ 2,593.97
	4.500	\$ 100.91	\$ 3,067.42	\$ 2,805.77	\$ 2,743.48	\$ 3,867.28	\$ 2,717.31
	5.000	\$ 114.63	\$ 3,241.83	\$ 3,048.73	\$ 2,864.32	\$ 4,121.44	\$ 2,838.17
14.00	2.500	\$ 98.43	\$ 3,537.11	\$ 3,039.99	\$ 2,959.01	\$ 4,406.75	\$ 2,929.11
	3.000	\$ 100.91	\$ 3,733.97	\$ 3,210.68	\$ 3,130.95	\$ 4,583.68	\$ 3,101.04
	3.500	\$ 104.65	\$ 3,584.45	\$ 3,375.14	\$ 3,296.66	\$ 4,755.60	\$ 3,266.76
	4.000	\$ 109.65	\$ 3,711.54	\$ 3,498.49	\$ 3,417.50	\$ 4,882.68	\$ 3,387.60
	4.500	\$ 115.87	\$ 3,837.37	\$ 3,697.83	\$ 3,615.59	\$ 5,007.27	\$ 3,543.33
	5.000	\$ 130.82	\$ 4,060.39	\$ 3,833.63	\$ 3,752.65	\$ 5,230.29	\$ 3,722.74
	5.500	\$ 133.31	\$ 4,249.77	\$ 4,016.78	\$ 3,935.80	\$ 5,419.67	\$ 3,907.15

NOTE: See Port Options for Cushioning.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7L – NFPA Pressure Rated Hydraulic

8.00"-14.00" Double Rod End

How to Price:

7L Double Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

Bore	Rod	Per Inch of Stroke	ER*CC	H	K*E	L*M*O	QQ*J
8.00	1.375	\$ 27.42	\$ 1,743.03	\$ 1,486.36	\$ 2,003.41	\$ 1,453.97	\$ 1,536.19
	1.750	\$ 29.91	\$ 1,941.12	\$ 1,784.12	\$ 2,341.06	\$ 1,750.50	\$ 1,840.20
	2.000	\$ 31.15	\$ 2,038.30	\$ 1,868.86	\$ 2,444.46	\$ 1,835.22	\$ 1,924.92
	2.500	\$ 36.13	\$ 2,220.20	\$ 2,052.02	\$ 2,615.14	\$ 2,025.84	\$ 2,075.68
	3.000	\$ 42.36	\$ 2,358.50	\$ 2,169.12	\$ 2,808.27	\$ 2,118.03	\$ 2,276.26
	3.500	\$ 48.59	\$ 2,581.51	\$ 2,440.71	\$ 3,017.59	\$ 2,417.04	\$ 2,479.35
	4.000	\$ 56.07	\$ 2,825.71	\$ 2,679.93	\$ 3,260.52	\$ 2,657.50	\$ 2,719.80
	4.500	\$ 64.79	\$ 3,104.79	\$ 2,955.28	\$ 3,539.61	\$ 2,932.86	\$ 2,993.89
10.00	5.000	\$ 85.97	\$ 3,372.66	\$ 3,216.92	\$ 3,808.72	\$ 3,198.23	\$ 3,255.54
	5.500	\$ 97.18	\$ 3,917.11	\$ 3,851.09	\$ 4,272.20	\$ 3,649.25	\$ 3,895.93
	1.750	\$ 49.84	\$ 2,275.02	\$ 2,119.28	\$ 2,949.05	\$ 2,094.37	\$ 2,167.87
	2.000	\$ 52.34	\$ 2,605.19	\$ 2,438.23	\$ 3,279.21	\$ 2,413.31	\$ 2,488.07
	2.500	\$ 59.82	\$ 2,836.91	\$ 2,664.98	\$ 3,510.95	\$ 2,641.31	\$ 2,713.57
	3.000	\$ 66.02	\$ 2,950.30	\$ 2,778.37	\$ 3,623.07	\$ 2,753.45	\$ 2,826.95
	3.500	\$ 76.00	\$ 3,142.17	\$ 2,966.49	\$ 3,812.46	\$ 2,940.33	\$ 3,016.32
	4.000	\$ 87.22	\$ 3,396.33	\$ 3,213.18	\$ 4,069.11	\$ 3,188.25	\$ 3,260.52
12.00	4.500	\$ 103.41	\$ 3,595.67	\$ 3,406.28	\$ 4,269.71	\$ 3,382.62	\$ 3,474.81
	5.000	\$ 133.31	\$ 3,956.98	\$ 3,761.37	\$ 4,629.77	\$ 3,736.46	\$ 3,809.96
	5.500	\$ 142.03	\$ 4,373.12	\$ 4,171.28	\$ 5,047.14	\$ 4,145.11	\$ 4,218.62
	2.000	\$ 77.25	\$ 3,086.09	\$ 2,883.01	\$ 3,980.66	\$ 2,856.85	\$ 2,945.32
	2.500	\$ 83.48	\$ 3,391.35	\$ 3,182.04	\$ 4,284.65	\$ 3,155.87	\$ 3,244.34
	3.000	\$ 89.72	\$ 3,579.48	\$ 3,363.94	\$ 4,472.78	\$ 3,336.52	\$ 3,427.47
	3.500	\$ 102.17	\$ 3,832.39	\$ 3,611.87	\$ 4,725.71	\$ 3,584.45	\$ 3,672.91
	4.000	\$ 118.36	\$ 4,101.51	\$ 3,876.00	\$ 4,994.81	\$ 3,847.34	\$ 3,964.46
14.00	4.500	\$ 127.08	\$ 4,427.93	\$ 4,105.24	\$ 5,230.29	\$ 4,077.84	\$ 4,166.28
	5.000	\$ 145.77	\$ 4,637.25	\$ 4,259.74	\$ 5,515.60	\$ 4,232.34	\$ 4,442.89
	5.500	\$ 154.49	\$ 4,852.77	\$ 4,690.82	\$ 5,746.10	\$ 4,654.68	\$ 4,753.10
	2.500	\$ 105.91	\$ 4,687.08	\$ 4,108.98	\$ 5,555.46	\$ 4,079.08	\$ 4,189.97
	3.000	\$ 113.38	\$ 5,019.73	\$ 4,416.72	\$ 5,869.44	\$ 4,388.07	\$ 4,496.46
	3.500	\$ 120.86	\$ 4,949.97	\$ 4,659.67	\$ 6,119.86	\$ 4,629.77	\$ 4,739.41
	4.000	\$ 129.58	\$ 5,195.41	\$ 4,901.37	\$ 6,365.31	\$ 4,871.47	\$ 4,982.35
	4.500	\$ 142.03	\$ 5,445.83	\$ 5,221.57	\$ 6,615.73	\$ 5,149.30	\$ 5,303.79
	5.000	\$ 169.45	\$ 5,790.94	\$ 5,483.20	\$ 6,959.60	\$ 5,453.31	\$ 5,564.20
	5.500	\$ 178.17	\$ 6,152.25	\$ 5,839.54	\$ 7,320.91	\$ 5,808.39	\$ 5,918.02

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7K – NFPA Heavy Duty Pneumatic

1.50"-6.00" Single Rod End

How to Price:

7K Single Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

Bore	Rod	Per Inch of Stroke	A*B*H	ER*EB*CC*SP *PP*QQ	G*J*Q*P*BB*A A*D*R*Z	K*E	L*M*N*O
1.50	0.625	\$ 4.99	\$ 270.36	\$ 307.74	\$ 282.81	\$ 376.26	\$ 254.17
	1.000	\$ 6.25	\$ 320.19	\$ 353.83	\$ 330.14	\$ 423.60	\$ 301.51
2.00	0.625	\$ 6.25	\$ 295.27	\$ 336.39	\$ 310.22	\$ 417.37	\$ 277.83
	1.000	\$ 6.25	\$ 357.57	\$ 392.45	\$ 370.03	\$ 473.44	\$ 336.39
	1.375	\$ 9.97	\$ 382.48	\$ 427.34	\$ 409.89	\$ 509.55	\$ 366.29
2.50	0.625	\$ 6.25	\$ 310.22	\$ 357.57	\$ 323.94	\$ 446.03	\$ 294.03
	1.000	\$ 7.48	\$ 383.74	\$ 424.84	\$ 394.94	\$ 509.55	\$ 363.80
	1.375	\$ 9.97	\$ 426.10	\$ 462.21	\$ 434.81	\$ 546.94	\$ 406.15
	1.750	\$ 11.21	\$ 447.26	\$ 535.73	\$ 488.39	\$ 589.30	\$ 432.32
3.25	1.000	\$ 11.21	\$ 394.95	\$ 468.47	\$ 411.16	\$ 559.42	\$ 375.01
	1.375	\$ 13.72	\$ 492.13	\$ 540.73	\$ 493.38	\$ 626.68	\$ 453.51
	1.750	\$ 13.72	\$ 533.25	\$ 584.33	\$ 543.22	\$ 675.29	\$ 507.08
	2.000	\$ 14.96	\$ 546.95	\$ 640.40	\$ 591.80	\$ 730.11	\$ 522.04
4.00	1.000	\$ 11.21	\$ 453.51	\$ 535.74	\$ 479.68	\$ 581.84	\$ 434.82
	1.375	\$ 13.72	\$ 556.93	\$ 608.00	\$ 560.66	\$ 717.64	\$ 522.04
	1.750	\$ 14.96	\$ 596.79	\$ 651.61	\$ 599.28	\$ 763.74	\$ 571.87
	2.000	\$ 16.19	\$ 642.89	\$ 711.40	\$ 670.31	\$ 822.30	\$ 624.20
	2.500	\$ 18.69	\$ 705.19	\$ 778.69	\$ 716.40	\$ 885.84	\$ 686.49
5.00	1.000	\$ 14.96	\$ 523.28	\$ 610.49	\$ 538.23	\$ 763.74	\$ 497.12
	1.375	\$ 16.19	\$ 641.64	\$ 716.40	\$ 665.31	\$ 857.19	\$ 617.97
	1.750	\$ 17.45	\$ 690.24	\$ 758.75	\$ 702.69	\$ 905.77	\$ 660.34
	2.000	\$ 18.69	\$ 748.79	\$ 821.05	\$ 768.72	\$ 958.10	\$ 720.14
	2.500	\$ 21.20	\$ 806.10	\$ 884.60	\$ 831.02	\$ 1,021.65	\$ 782.43
	3.000	\$ 26.16	\$ 902.04	\$ 996.73	\$ 926.96	\$ 1,149.97	\$ 879.61
	3.500	\$ 28.67	\$ 994.24	\$ 1,093.91	\$ 1,020.39	\$ 1,252.14	\$ 973.05
6.00	1.375	\$ 18.69	\$ 716.40	\$ 821.05	\$ 731.35	\$ 1,057.77	\$ 682.77
	1.750	\$ 18.69	\$ 865.90	\$ 929.44	\$ 895.81	\$ 1,066.50	\$ 834.76
	2.000	\$ 21.20	\$ 914.50	\$ 976.79	\$ 953.12	\$ 1,204.80	\$ 868.41
	2.500	\$ 23.67	\$ 980.53	\$ 1,062.75	\$ 1,014.17	\$ 1,278.29	\$ 940.66
	3.000	\$ 23.67	\$ 1,062.75	\$ 1,096.40	\$ 1,067.74	\$ 1,361.78	\$ 1,025.39
	3.500	\$ 27.42	\$ 1,140.00	\$ 1,212.27	\$ 1,162.43	\$ 1,620.92	\$ 1,138.75
	4.000	\$ 36.13	\$ 1,280.78	\$ 1,381.70	\$ 1,284.53	\$ 1,576.07	\$ 1,238.42

* Additional charges may apply for cylinder modifications.

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters. For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7K – NFPA Heavy Duty Pneumatic

1.50"-6.00" Double Rod End

How to Price:

7K Double Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

Bore	Rod	Per Inch of Stroke	B*H	CC*ER*QQ	J*Q*BB	K*E	L*M*O
1.50	0.625	\$ 6.25	\$ 447.26	\$ 484.64	\$ 460.98	\$ 551.93	\$ 432.32
	1.000	\$ 7.48	\$ 540.72	\$ 575.61	\$ 550.68	\$ 644.13	\$ 522.03
2.00	0.625	\$ 7.48	\$ 478.41	\$ 518.30	\$ 493.37	\$ 600.52	\$ 460.98
	1.000	\$ 9.97	\$ 583.08	\$ 617.96	\$ 596.78	\$ 700.19	\$ 564.38
	1.375	\$ 16.19	\$ 651.60	\$ 696.44	\$ 679.01	\$ 778.68	\$ 639.13
2.50	0.625	\$ 7.48	\$ 500.84	\$ 548.19	\$ 515.80	\$ 639.13	\$ 485.89
	1.000	\$ 12.47	\$ 622.94	\$ 662.82	\$ 632.91	\$ 747.54	\$ 604.25
	1.375	\$ 12.47	\$ 695.21	\$ 736.32	\$ 679.01	\$ 821.03	\$ 677.77
	1.750	\$ 14.96	\$ 793.63	\$ 880.85	\$ 832.26	\$ 935.66	\$ 777.44
3.25	1.000	\$ 12.47	\$ 662.83	\$ 737.58	\$ 679.02	\$ 827.29	\$ 642.89
	1.375	\$ 16.19	\$ 819.81	\$ 869.65	\$ 822.30	\$ 955.61	\$ 782.43
	1.750	\$ 17.45	\$ 929.44	\$ 980.53	\$ 939.42	\$ 1,071.49	\$ 903.28
	2.000	\$ 19.94	\$ 992.99	\$ 1,085.18	\$ 1,036.60	\$ 1,174.89	\$ 966.82
4.00	1.000	\$ 13.72	\$ 728.86	\$ 811.08	\$ 755.03	\$ 923.22	\$ 710.17
	1.375	\$ 16.19	\$ 894.56	\$ 960.59	\$ 898.29	\$ 1,056.54	\$ 859.67
	1.750	\$ 18.69	\$ 978.04	\$ 1,035.34	\$ 981.78	\$ 1,144.99	\$ 953.12
	2.000	\$ 19.94	\$ 1,070.22	\$ 1,137.51	\$ 1,095.16	\$ 1,249.63	\$ 1,050.30
	2.500	\$ 26.16	\$ 1,206.04	\$ 1,280.80	\$ 1,218.49	\$ 1,385.44	\$ 1,187.34
5.00	1.000	\$ 16.19	\$ 829.78	\$ 915.75	\$ 844.72	\$ 1,071.49	\$ 803.61
	1.375	\$ 18.69	\$ 1,019.16	\$ 1,093.91	\$ 1,042.82	\$ 1,234.69	\$ 995.48
	1.750	\$ 21.20	\$ 1,083.94	\$ 1,153.71	\$ 1,096.40	\$ 1,299.48	\$ 1,055.28
	2.000	\$ 23.67	\$ 1,216.01	\$ 1,285.78	\$ 1,234.69	\$ 1,422.82	\$ 1,186.11
	2.500	\$ 29.91	\$ 1,339.35	\$ 1,417.83	\$ 1,365.51	\$ 1,553.65	\$ 1,316.92
	3.000	\$ 34.88	\$ 1,508.79	\$ 1,605.97	\$ 1,534.95	\$ 1,757.98	\$ 1,574.82
6.00	3.500	\$ 42.36	\$ 1,685.71	\$ 1,785.38	\$ 1,711.86	\$ 1,944.87	\$ 1,664.53
	1.375	\$ 21.20	\$ 1,122.56	\$ 1,225.96	\$ 1,137.51	\$ 1,463.94	\$ 1,087.68
	1.750	\$ 23.67	\$ 1,346.83	\$ 1,410.35	\$ 1,375.47	\$ 1,547.41	\$ 1,315.67
	2.000	\$ 26.16	\$ 1,444.00	\$ 1,507.54	\$ 1,482.61	\$ 1,735.55	\$ 1,397.90
	2.500	\$ 31.15	\$ 1,583.54	\$ 1,665.77	\$ 1,617.19	\$ 1,880.07	\$ 1,542.42
	3.000	\$ 37.39	\$ 1,743.03	\$ 1,776.65	\$ 1,748.00	\$ 2,043.27	\$ 1,704.40
	3.500	\$ 44.86	\$ 1,896.27	\$ 1,969.78	\$ 1,919.94	\$ 2,213.97	\$ 1,896.27
4.000	\$ 51.08	\$ 2,157.90	\$ 2,260.06	\$ 2,162.89	\$ 2,454.43	\$ 2,116.80	

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7K – NFPA Heavy Duty Pneumatic

8.00"-14.00" Single Rod End

How to Price:

7K Single Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

Bore	Rod	Per Inch of Stroke	ER*EB*CC	G*J*SP*QQ*P P*D*R*Z	H	K*E	L*M*N*O
8.00	1.375	\$ 23.67	\$ 1,127.54	\$ 1,052.79	\$ 997.96	\$ 1,576.07	\$ 941.91
	1.750	\$ 26.16	\$ 1,294.49	\$ 1,244.66	\$ 1,187.34	\$ 1,685.71	\$ 1,130.03
	2.000	\$ 27.42	\$ 1,343.08	\$ 1,306.95	\$ 1,238.43	\$ 1,765.46	\$ 1,202.29
	2.500	\$ 29.91	\$ 1,426.56	\$ 1,402.89	\$ 1,320.67	\$ 1,845.18	\$ 1,294.49
	3.000	\$ 33.64	\$ 1,526.24	\$ 1,466.42	\$ 1,419.09	\$ 1,941.12	\$ 1,356.78
	3.500	\$ 36.13	\$ 1,607.21	\$ 1,688.20	\$ 1,501.31	\$ 2,047.02	\$ 1,462.69
	4.000	\$ 42.36	\$ 1,751.74	\$ 1,750.50	\$ 1,629.64	\$ 2,157.90	\$ 1,602.23
	4.500	\$ 46.10	\$ 1,858.89	\$ 1,780.40	\$ 1,719.34	\$ 2,293.72	\$ 1,694.43
	5.000	\$ 54.82	\$ 2,147.94	\$ 2,003.41	\$ 1,922.44	\$ 2,448.18	\$ 1,877.58
5.500	\$ 63.54	\$ 2,210.23	\$ 2,104.33	\$ 2,079.42	\$ 2,630.10	\$ 2,015.87	
10.00	1.750	\$ 33.64	\$ 1,583.54	\$ 1,430.30	\$ 1,377.97	\$ 2,514.24	\$ 1,325.63
	2.000	\$ 33.64	\$ 1,794.09	\$ 1,632.14	\$ 1,625.91	\$ 2,661.25	\$ 1,617.19
	2.500	\$ 37.39	\$ 1,876.33	\$ 1,726.82	\$ 1,718.11	\$ 2,755.94	\$ 1,713.12
	3.000	\$ 39.87	\$ 1,971.01	\$ 1,842.70	\$ 1,836.46	\$ 2,849.37	\$ 1,806.55
	3.500	\$ 44.86	\$ 2,068.20	\$ 1,901.24	\$ 1,887.54	\$ 2,944.06	\$ 1,881.32
	4.000	\$ 49.84	\$ 2,169.12	\$ 2,032.07	\$ 2,015.87	\$ 3,094.82	\$ 2,007.16
	4.500	\$ 58.56	\$ 2,375.92	\$ 2,172.85	\$ 2,141.71	\$ 3,305.37	\$ 2,114.31
5.000	\$ 68.53	\$ 2,507.99	\$ 2,308.65	\$ 2,296.21	\$ 3,437.44	\$ 2,281.26	
5.500	\$ 71.02	\$ 2,772.13	\$ 2,545.38	\$ 2,494.29	\$ 3,704.06	\$ 2,491.81	
12.00	2.000	\$ 53.57	\$ 2,276.26	\$ 2,108.07	\$ 1,982.24	\$ 3,544.59	\$ 1,972.27
	2.500	\$ 56.07	\$ 2,520.46	\$ 2,296.21	\$ 2,228.92	\$ 3,745.17	\$ 2,179.09
	3.000	\$ 59.82	\$ 2,688.65	\$ 2,453.19	\$ 2,341.06	\$ 3,912.12	\$ 2,312.40
	3.500	\$ 62.30	\$ 2,803.28	\$ 2,610.16	\$ 2,446.95	\$ 4,107.74	\$ 2,443.22
	4.000	\$ 64.79	\$ 2,911.67	\$ 2,768.40	\$ 2,595.21	\$ 4,247.28	\$ 2,572.78
	4.500	\$ 72.27	\$ 3,101.04	\$ 2,892.99	\$ 2,717.31	\$ 4,380.59	\$ 2,688.65
	5.000	\$ 80.98	\$ 3,200.72	\$ 3,018.82	\$ 2,957.78	\$ 4,515.15	\$ 2,839.41
5.500	\$ 85.97	\$ 3,331.55	\$ 3,159.62	\$ 2,990.16	\$ 4,649.70	\$ 2,961.50	
14.00	2.500	\$ 73.50	\$ 3,341.51	\$ 3,132.20	\$ 2,934.10	\$ 5,014.75	\$ 2,930.36
	3.000	\$ 77.25	\$ 3,625.57	\$ 3,330.29	\$ 3,213.18	\$ 5,204.12	\$ 3,213.18
	3.500	\$ 79.74	\$ 3,803.73	\$ 3,499.73	\$ 3,458.61	\$ 5,383.53	\$ 3,253.05
	4.000	\$ 82.24	\$ 3,826.16	\$ 3,576.98	\$ 3,503.47	\$ 5,516.84	\$ 3,620.59
	4.500	\$ 87.22	\$ 4,303.34	\$ 3,834.88	\$ 3,717.76	\$ 5,650.16	\$ 3,677.90
	5.000	\$ 98.43	\$ 4,477.77	\$ 4,060.39	\$ 3,944.52	\$ 5,884.40	\$ 3,866.03
5.500	\$ 100.91	\$ 4,640.98	\$ 4,254.75	\$ 4,138.88	\$ 6,086.22	\$ 4,055.41	

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7K – NFPA Heavy Duty Pneumatic

8.00"-14.00" Double Rod End

How to Price:

7K Double Rod End

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

Bore	Rod	Per Inch of Stroke	ER*CC	H	K*E	L*M*O	QQ*J
8.00	1.375	\$ 27.42	\$ 1,635.88	\$ 1,506.30	\$ 2,084.40	\$ 1,451.47	\$ 1,562.36
	1.750	\$ 29.91	\$ 1,900.01	\$ 1,790.37	\$ 2,289.97	\$ 1,734.29	\$ 1,848.91
	2.000	\$ 31.15	\$ 1,984.73	\$ 1,880.07	\$ 2,407.09	\$ 1,843.94	\$ 1,948.58
	2.500	\$ 36.13	\$ 2,149.19	\$ 2,043.27	\$ 2,566.56	\$ 2,017.11	\$ 2,125.51
	3.000	\$ 42.36	\$ 2,318.63	\$ 2,211.48	\$ 2,732.26	\$ 2,147.94	\$ 2,257.57
	3.500	\$ 48.59	\$ 2,486.81	\$ 2,379.67	\$ 2,925.38	\$ 2,341.06	\$ 2,565.30
	4.000	\$ 56.07	\$ 2,755.94	\$ 2,632.59	\$ 3,160.85	\$ 2,606.43	\$ 2,646.30
	4.500	\$ 64.79	\$ 3,048.73	\$ 2,907.93	\$ 3,482.29	\$ 2,883.01	\$ 2,968.98
	5.000	\$ 85.97	\$ 3,337.77	\$ 3,206.95	\$ 3,731.48	\$ 3,160.85	\$ 3,287.93
10.00	5.500	\$ 97.18	\$ 3,751.41	\$ 3,620.60	\$ 4,172.53	\$ 3,559.54	\$ 3,646.75
	1.750	\$ 37.39	\$ 2,293.72	\$ 2,088.13	\$ 3,225.63	\$ 2,035.80	\$ 2,140.46
	2.000	\$ 38.62	\$ 2,570.29	\$ 2,402.09	\$ 3,437.44	\$ 2,393.37	\$ 2,407.09
	2.500	\$ 44.86	\$ 2,728.52	\$ 2,572.78	\$ 3,610.62	\$ 2,566.56	\$ 2,580.26
	3.000	\$ 49.84	\$ 2,905.44	\$ 2,770.89	\$ 3,782.55	\$ 2,742.22	\$ 2,777.12
	3.500	\$ 56.07	\$ 3,077.38	\$ 2,896.72	\$ 3,952.00	\$ 2,890.49	\$ 2,910.43
	4.000	\$ 64.79	\$ 3,286.69	\$ 3,132.20	\$ 4,212.40	\$ 3,122.23	\$ 3,148.39
	4.500	\$ 78.50	\$ 3,543.33	\$ 3,306.63	\$ 4,472.78	\$ 3,280.45	\$ 3,337.77
	5.000	\$ 99.68	\$ 3,866.03	\$ 3,652.98	\$ 4,795.47	\$ 3,638.02	\$ 3,666.69
12.00	5.500	\$ 105.91	\$ 4,349.44	\$ 4,072.85	\$ 5,282.62	\$ 4,069.11	\$ 4,123.93
	2.000	\$ 59.82	\$ 3,187.02	\$ 2,892.99	\$ 4,455.34	\$ 2,884.26	\$ 3,017.59
	2.500	\$ 63.54	\$ 3,559.54	\$ 3,268.00	\$ 4,784.25	\$ 3,216.92	\$ 3,334.03
	3.000	\$ 69.77	\$ 3,795.00	\$ 3,448.66	\$ 5,019.73	\$ 3,418.76	\$ 3,560.79
	3.500	\$ 73.50	\$ 3,979.41	\$ 3,623.07	\$ 5,283.86	\$ 3,619.34	\$ 3,786.29
	4.000	\$ 82.24	\$ 4,211.14	\$ 3,894.68	\$ 5,560.46	\$ 3,871.01	\$ 4,065.38
	4.500	\$ 89.72	\$ 4,521.39	\$ 4,137.64	\$ 5,799.66	\$ 4,107.74	\$ 4,312.07
	5.000	\$ 112.13	\$ 4,710.76	\$ 4,467.80	\$ 6,025.17	\$ 4,349.44	\$ 4,528.85
	5.500	\$ 118.36	\$ 5,042.16	\$ 4,702.03	\$ 6,360.32	\$ 4,672.13	\$ 4,855.28
14.00	2.500	\$ 80.98	\$ 4,557.50	\$ 4,148.85	\$ 6,229.50	\$ 4,146.35	\$ 4,346.95
	3.000	\$ 85.97	\$ 4,964.92	\$ 4,623.53	\$ 6,543.46	\$ 4,552.53	\$ 4,657.18
	3.500	\$ 93.44	\$ 5,225.31	\$ 4,881.44	\$ 6,803.86	\$ 4,673.36	\$ 4,921.31
	4.000	\$ 98.43	\$ 5,379.80	\$ 5,058.36	\$ 7,070.48	\$ 5,049.63	\$ 5,130.62
	4.500	\$ 108.39	\$ 5,992.78	\$ 5,407.21	\$ 7,339.60	\$ 5,367.34	\$ 5,525.58
	5.000	\$ 129.58	\$ 6,305.51	\$ 5,771.01	\$ 7,712.12	\$ 5,695.01	\$ 5,889.37
5.500	\$ 135.80	\$ 6,659.34	\$ 6,156.00	\$ 8,104.58	\$ 6,073.76	\$ 6,273.11	

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7K – NFPA Heavy Duty Pneumatic

16.00"-20.00" Single and Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7K Single Rod End

Bore	Rod	Per Inch of Stroke	E*K*CC	ER*EB	G*J*QQ*PP	H	L*M*N*O
16.00	3.000	\$ 180.93	\$ 10,534.42	\$ 10,212.11	\$ 10,212.11	\$ 9,615.84	\$ 9,192.53
	3.500	\$ 186.41	\$ 10,671.94	\$ 10,349.63	\$ 10,349.63	\$ 9,749.06	\$ 9,310.71
	4.000	\$ 196.28	\$ 10,941.61	\$ 10,619.30	\$ 10,619.30	\$ 10,024.09	\$ 9,590.05
	4.500	\$ 205.06	\$ 11,195.16	\$ 10,872.85	\$ 10,872.85	\$ 10,539.80	\$ 9,847.90
	5.000	\$ 216.02	\$ 11,564.74	\$ 11,242.43	\$ 11,242.43	\$ 10,644.01	\$ 10,213.18
	5.500	\$ 228.09	\$ 11,877.39	\$ 11,555.07	\$ 11,555.07	\$ 10,958.80	\$ 10,524.75
18.00	3.000	\$ 205.06	\$ 11,674.33	\$ 11,352.02	\$ 10,327.07	\$ 10,746.07	\$ 10,234.68
	3.500	\$ 209.44	\$ 11,781.77	\$ 11,459.46	\$ 10,436.65	\$ 10,847.06	\$ 10,342.11
	4.000	\$ 217.12	\$ 12,071.84	\$ 11,749.53	\$ 10,722.44	\$ 11,132.84	\$ 10,632.19
	4.500	\$ 225.89	\$ 12,480.11	\$ 12,157.80	\$ 10,999.62	\$ 11,411.11	\$ 10,911.53
	5.000	\$ 240.14	\$ 12,716.47	\$ 12,394.16	\$ 11,369.21	\$ 11,780.69	\$ 11,276.81
	5.500	\$ 250.01	\$ 13,038.78	\$ 12,716.47	\$ 11,694.75	\$ 12,110.52	\$ 11,599.12
20.00	3.000	\$ 268.65	\$ 13,661.92	\$ 13,124.73	\$ 12,042.84	\$ 12,456.47	\$ 11,942.93
	3.500	\$ 273.04	\$ 13,780.10	\$ 13,242.92	\$ 12,177.14	\$ 12,580.03	\$ 12,071.84
	4.000	\$ 282.91	\$ 14,059.43	\$ 13,522.25	\$ 12,432.84	\$ 12,843.24	\$ 12,329.70
	4.500	\$ 290.58	\$ 14,349.52	\$ 13,812.33	\$ 12,725.06	\$ 13,144.08	\$ 12,630.52
	5.000	\$ 303.74	\$ 14,704.06	\$ 14,166.87	\$ 13,087.13	\$ 13,494.32	\$ 12,985.06
	5.500	\$ 313.62	\$ 15,037.11	\$ 14,499.93	\$ 13,412.67	\$ 13,834.89	\$ 13,318.12

7K Double Rod End

Bore	Rod	Per Inch of Stroke	E*K*CC	ER	H	J*QQ	L*M*O
16.00	3.000	\$ 199.58	\$ 11,556.15	\$ 11,233.84	\$ 10,640.78	\$ 10,289.46	\$ 10,009.06
	3.500	\$ 209.44	\$ 11,824.74	\$ 11,502.43	\$ 10,915.83	\$ 10,562.36	\$ 10,277.65
	4.000	\$ 225.89	\$ 12,437.14	\$ 12,114.83	\$ 11,520.70	\$ 11,157.56	\$ 10,868.55
	4.500	\$ 245.63	\$ 13,017.30	\$ 12,694.99	\$ 12,103.01	\$ 11,745.24	\$ 11,437.97
	5.000	\$ 268.65	\$ 13,833.82	\$ 13,511.51	\$ 12,923.82	\$ 12,563.91	\$ 12,243.75
	5.500	\$ 290.58	\$ 14,542.90	\$ 14,220.59	\$ 13,628.62	\$ 13,264.40	\$ 12,931.34
18.00	3.000	\$ 221.50	\$ 11,998.80	\$ 11,461.61	\$ 11,753.83	\$ 11,331.60	\$ 11,244.58
	3.500	\$ 231.38	\$ 13,307.37	\$ 12,770.19	\$ 12,019.20	\$ 11,587.31	\$ 11,502.43
	4.000	\$ 248.92	\$ 13,909.02	\$ 13,371.84	\$ 12,631.60	\$ 12,202.92	\$ 12,114.83
	4.500	\$ 266.46	\$ 14,489.18	\$ 13,951.99	\$ 13,211.76	\$ 12,790.60	\$ 12,694.99
	5.000	\$ 290.58	\$ 15,337.94	\$ 14,800.76	\$ 14,052.99	\$ 13,631.83	\$ 13,543.74
	5.500	\$ 313.62	\$ 16,047.02	\$ 15,509.83	\$ 14,766.37	\$ 14,347.37	\$ 14,252.83
20.00	3.000	\$ 286.20	\$ 14,886.70	\$ 14,349.52	\$ 13,584.56	\$ 13,163.40	\$ 13,060.27
	3.500	\$ 321.28	\$ 15,176.79	\$ 14,639.60	\$ 13,870.35	\$ 13,453.49	\$ 13,350.36
	4.000	\$ 326.77	\$ 15,756.95	\$ 15,219.76	\$ 14,460.18	\$ 14,033.65	\$ 13,930.51
	4.500	\$ 334.45	\$ 16,390.82	\$ 15,853.64	\$ 15,096.21	\$ 14,669.68	\$ 14,564.39
	5.000	\$ 354.18	\$ 17,228.83	\$ 16,691.64	\$ 15,923.47	\$ 15,502.32	\$ 15,402.40
	5.500	\$ 379.40	\$ 17,916.44	\$ 17,379.25	\$ 16,626.11	\$ 16,206.04	\$ 16,100.74

NOTE: See Port Options for Cushioning.
For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7KA – NFPA Aluminum Barrel Cylinders

1.50"-6.00" Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7KA Single Rod End

Bore	Rod	Per Inch of Stroke	A*B*H	ER*EB*CC*SP*P P*QQ	G*J*Q*P*BB*A A*D*R*Z	K*E	L*M*N*O
1.50	0.625	\$ 4.99	\$ 266.62	\$ 325.17	\$ 286.55	\$ 376.26	\$ 260.38
	1.000	\$ 6.25	\$ 325.17	\$ 350.09	\$ 328.91	\$ 422.35	\$ 310.22
2.00	0.625	\$ 6.25	\$ 291.53	\$ 356.32	\$ 308.98	\$ 428.58	\$ 284.05
	1.000	\$ 6.25	\$ 367.53	\$ 419.86	\$ 391.20	\$ 469.69	\$ 340.12
	1.375	\$ 9.97	\$ 376.26	\$ 449.77	\$ 418.62	\$ 505.84	\$ 373.77
2.50	0.625	\$ 6.25	\$ 306.48	\$ 377.49	\$ 325.17	\$ 459.72	\$ 292.78
	1.000	\$ 7.48	\$ 384.97	\$ 442.29	\$ 406.15	\$ 524.51	\$ 375.00
	1.375	\$ 9.97	\$ 424.84	\$ 482.15	\$ 448.53	\$ 568.13	\$ 416.12
	1.750	\$ 11.21	\$ 447.26	\$ 528.26	\$ 489.63	\$ 611.73	\$ 444.78
3.25	1.000	\$ 11.21	\$ 389.97	\$ 485.90	\$ 416.13	\$ 551.94	\$ 377.50
	1.375	\$ 13.72	\$ 502.10	\$ 568.14	\$ 519.54	\$ 639.14	\$ 480.93
	1.750	\$ 13.72	\$ 535.74	\$ 610.49	\$ 564.39	\$ 687.74	\$ 518.31
	2.000	\$ 14.96	\$ 579.34	\$ 655.35	\$ 608.00	\$ 742.57	\$ 566.89
4.00	1.000	\$ 11.21	\$ 447.27	\$ 570.62	\$ 475.94	\$ 639.14	\$ 442.30
	1.375	\$ 13.72	\$ 551.94	\$ 636.66	\$ 584.33	\$ 722.63	\$ 541.97
	1.750	\$ 14.96	\$ 594.30	\$ 681.52	\$ 624.20	\$ 777.45	\$ 575.62
	2.000	\$ 16.19	\$ 644.14	\$ 733.83	\$ 675.29	\$ 836.00	\$ 631.67
	2.500	\$ 18.69	\$ 705.19	\$ 792.41	\$ 736.34	\$ 898.29	\$ 692.72
5.00	1.000	\$ 14.96	\$ 527.02	\$ 664.06	\$ 550.70	\$ 789.90	\$ 522.04
	1.375	\$ 16.19	\$ 655.35	\$ 761.25	\$ 686.49	\$ 884.60	\$ 626.68
	1.750	\$ 17.45	\$ 708.92	\$ 811.08	\$ 740.07	\$ 931.94	\$ 674.04
	2.000	\$ 18.69	\$ 762.50	\$ 868.41	\$ 794.89	\$ 988.01	\$ 757.51
	2.500	\$ 21.20	\$ 824.79	\$ 934.44	\$ 857.19	\$ 1,051.54	\$ 803.61
	3.000	\$ 26.16	\$ 910.76	\$ 1,014.17	\$ 935.67	\$ 1,184.85	\$ 890.81
	3.500	\$ 28.67	\$ 1,000.46	\$ 1,117.58	\$ 1,034.11	\$ 1,277.06	\$ 978.04
6.00	1.375	\$ 18.69	\$ 703.93	\$ 898.29	\$ 733.83	\$ 1,046.56	\$ 681.52
	1.750	\$ 18.69	\$ 869.65	\$ 944.39	\$ 904.53	\$ 1,173.63	\$ 839.75
	2.000	\$ 21.20	\$ 931.94	\$ 1,046.56	\$ 959.35	\$ 1,220.98	\$ 903.28
	2.500	\$ 23.67	\$ 1,000.46	\$ 1,125.05	\$ 1,035.34	\$ 1,294.49	\$ 969.31
	3.000	\$ 27.42	\$ 1,082.69	\$ 1,243.41	\$ 1,108.84	\$ 1,386.69	\$ 1,051.54
	3.500	\$ 31.15	\$ 1,168.65	\$ 1,253.37	\$ 1,223.48	\$ 1,473.90	\$ 1,146.22
	4.000	\$ 34.88	\$ 1,300.72	\$ 1,518.76	\$ 1,338.10	\$ 1,592.25	\$ 1,277.06

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7KA – NFPA Aluminum Barrel Cylinders

1.50"-6.00" Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the dollar stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7KA Double Rod End

Bore	Rod	Per Inch of Stroke	B*H	CC*ER*QQ	J*Q*BB	K*E	L*M*O
1.50	0.625	\$ 6.25	\$ 448.53	\$ 507.07	\$ 467.20	\$ 558.16	\$ 441.05
	1.000	\$ 7.48	\$ 546.94	\$ 573.11	\$ 550.68	\$ 644.13	\$ 531.98
2.00	0.625	\$ 7.48	\$ 477.17	\$ 541.96	\$ 494.62	\$ 690.23	\$ 469.69
	1.000	\$ 9.97	\$ 596.78	\$ 649.10	\$ 620.46	\$ 698.94	\$ 568.13
	1.375	\$ 12.47	\$ 640.39	\$ 713.90	\$ 682.76	\$ 769.97	\$ 637.90
2.50	0.625	\$ 9.97	\$ 500.84	\$ 573.11	\$ 519.53	\$ 655.34	\$ 488.39
	1.000	\$ 9.97	\$ 626.67	\$ 682.76	\$ 646.61	\$ 764.97	\$ 614.22
	1.375	\$ 12.47	\$ 696.44	\$ 756.25	\$ 721.37	\$ 840.97	\$ 690.23
	1.750	\$ 14.96	\$ 789.89	\$ 870.88	\$ 831.01	\$ 954.36	\$ 787.40
3.25	1.000	\$ 12.47	\$ 646.62	\$ 742.57	\$ 672.79	\$ 808.60	\$ 632.92
	1.375	\$ 16.19	\$ 827.29	\$ 894.56	\$ 845.98	\$ 963.08	\$ 806.10
	1.750	\$ 17.45	\$ 926.96	\$ 1,001.71	\$ 954.37	\$ 1,076.46	\$ 909.51
	2.000	\$ 19.94	\$ 1,017.91	\$ 1,091.42	\$ 1,044.08	\$ 1,179.88	\$ 1,005.44
4.00	1.000	\$ 13.72	\$ 741.31	\$ 863.41	\$ 768.72	\$ 930.70	\$ 736.34
	1.375	\$ 16.19	\$ 905.77	\$ 988.01	\$ 938.16	\$ 1,075.22	\$ 894.56
	1.750	\$ 18.69	\$ 989.25	\$ 1,077.70	\$ 1,019.16	\$ 1,173.65	\$ 971.82
	2.000	\$ 19.94	\$ 1,082.69	\$ 1,172.40	\$ 1,112.59	\$ 1,273.33	\$ 1,070.22
	2.500	\$ 26.16	\$ 1,154.95	\$ 1,240.92	\$ 1,186.11	\$ 1,348.06	\$ 1,142.49
5.00	1.000	\$ 16.19	\$ 849.72	\$ 988.01	\$ 874.63	\$ 1,112.59	\$ 844.72
	1.375	\$ 18.69	\$ 1,044.08	\$ 1,151.23	\$ 1,075.22	\$ 1,274.57	\$ 1,017.91
	1.750	\$ 21.20	\$ 1,113.85	\$ 1,218.49	\$ 1,146.23	\$ 1,339.35	\$ 1,080.20
	2.000	\$ 23.67	\$ 1,237.18	\$ 1,343.08	\$ 1,269.58	\$ 1,462.69	\$ 1,232.20
	2.500	\$ 29.91	\$ 1,365.51	\$ 1,473.90	\$ 1,397.90	\$ 1,591.02	\$ 1,343.08
	3.000	\$ 34.88	\$ 1,522.50	\$ 1,635.88	\$ 1,548.66	\$ 1,796.60	\$ 1,502.56
6.00	3.500	\$ 42.36	\$ 1,690.69	\$ 1,809.05	\$ 1,724.33	\$ 1,968.53	\$ 1,669.50
	1.375	\$ 21.20	\$ 1,151.23	\$ 1,348.06	\$ 1,183.60	\$ 1,493.84	\$ 1,130.03
	1.750	\$ 23.67	\$ 1,389.18	\$ 1,465.18	\$ 1,422.82	\$ 1,694.43	\$ 1,359.29
	2.000	\$ 26.16	\$ 1,500.07	\$ 1,613.45	\$ 1,526.24	\$ 1,787.87	\$ 1,470.16
	2.500	\$ 31.15	\$ 1,635.88	\$ 1,761.71	\$ 1,670.77	\$ 1,931.15	\$ 1,604.72
	3.000	\$ 37.39	\$ 1,792.86	\$ 1,953.58	\$ 1,817.77	\$ 2,096.85	\$ 1,760.46
	3.500	\$ 44.86	\$ 1,898.75	\$ 1,983.48	\$ 1,954.82	\$ 2,202.76	\$ 1,877.58
4.000	\$ 51.08	\$ 2,137.97	\$ 2,357.25	\$ 2,176.60	\$ 2,430.75	\$ 2,115.54	

NOTE: See Port Options for Cushioning.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7KA – NFPA Aluminum Barrel Cylinders

8.00” Single and Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

7KA Single Rod End

Bore	Rod	Per Inch of Stroke	ER*EB*CC	G*J*SP*QQ*PP* D*R*Z	H	K*E	L*M*N*O
8.00	1.375	\$ 23.67	\$ 1,219.75	\$ 1,011.68	\$ 961.85	\$ 1,480.13	\$ 929.44
	1.750	\$ 26.16	\$ 1,330.64	\$ 1,228.47	\$ 1,173.65	\$ 1,729.31	\$ 1,140.00
	2.000	\$ 27.42	\$ 1,394.16	\$ 1,278.30	\$ 1,224.72	\$ 1,799.08	\$ 1,189.84
	2.500	\$ 29.91	\$ 1,502.56	\$ 1,355.54	\$ 1,334.36	\$ 1,896.27	\$ 1,305.72
	3.000	\$ 33.64	\$ 1,574.82	\$ 1,492.59	\$ 1,386.69	\$ 2,025.84	\$ 1,334.36
	3.500	\$ 36.13	\$ 1,719.34	\$ 1,617.19	\$ 1,578.57	\$ 2,154.17	\$ 1,554.88
	4.000	\$ 42.36	\$ 1,848.91	\$ 1,740.53	\$ 1,701.91	\$ 2,283.74	\$ 1,679.48
	4.500	\$ 46.10	\$ 1,946.10	\$ 1,835.22	\$ 1,795.35	\$ 2,379.67	\$ 1,771.68
	5.000	\$ 54.82	\$ 2,140.46	\$ 2,020.85	\$ 1,983.48	\$ 2,575.28	\$ 1,963.53
5.500	\$ 63.54	\$ 2,595.21	\$ 2,423.28	\$ 2,379.67	\$ 2,800.80	\$ 2,177.84	

7KA Double Rod End

Bore	Rod	Per Inch of Stroke	ER*CC	H	K*E	L*M*O	QQ*J
8.00	1.375	\$ 27.42	\$ 1,743.03	\$ 1,486.36	\$ 2,003.41	\$ 1,453.97	\$ 1,536.19
	1.750	\$ 29.91	\$ 1,941.12	\$ 1,784.12	\$ 2,341.06	\$ 1,750.50	\$ 1,840.20
	2.000	\$ 31.15	\$ 2,038.30	\$ 1,868.86	\$ 2,444.46	\$ 1,835.22	\$ 1,924.92
	2.500	\$ 36.13	\$ 2,220.20	\$ 2,052.02	\$ 2,615.14	\$ 2,025.84	\$ 2,075.68
	3.000	\$ 42.36	\$ 2,358.50	\$ 2,169.12	\$ 2,808.27	\$ 2,118.03	\$ 2,276.26
	3.500	\$ 48.59	\$ 2,581.51	\$ 2,440.71	\$ 3,017.59	\$ 2,417.04	\$ 2,479.35
	4.000	\$ 56.07	\$ 2,825.71	\$ 2,679.93	\$ 3,260.52	\$ 2,657.50	\$ 2,719.80
	4.500	\$ 64.79	\$ 3,104.79	\$ 2,955.28	\$ 3,539.61	\$ 2,932.86	\$ 2,993.89
	5.000	\$ 85.97	\$ 3,372.66	\$ 3,216.92	\$ 3,808.72	\$ 3,198.23	\$ 3,255.54
5.500	\$ 97.18	\$ 3,917.11	\$ 3,851.09	\$ 4,272.20	\$ 3,649.25	\$ 3,895.93	

* Additional charges may apply for cylinder modifications.

7LX – Electrohydraulic Pressure Rated Cylinders

2.50”-6.00” Single Rod End Cylinders

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7LX Single Rod End

Bore	Rod	Per Inch of Stroke	B*H	ER*EB*CC	J*Q*BB*QQ	K*E	M*O
2.50	1.375	\$ 21.62	\$ 932.33	\$ 989.63	\$ 956.01	\$ 1,075.61	\$ 923.60
	1.750	\$ 22.87	\$ 960.38	\$ 1,041.37	\$ 1,002.75	\$ 1,124.85	\$ 957.90
3.25	1.375	\$ 25.37	\$ 1,019.91	\$ 1,085.95	\$ 1,037.36	\$ 1,156.96	\$ 998.74
	1.750	\$ 25.37	\$ 1,059.19	\$ 1,133.94	\$ 1,087.85	\$ 1,211.19	\$ 1,041.76
	2.000	\$ 26.61	\$ 1,105.67	\$ 1,181.68	\$ 1,134.33	\$ 1,268.89	\$ 1,093.22
4.00	1.375	\$ 25.37	\$ 1,075.23	\$ 1,159.95	\$ 1,107.62	\$ 1,245.92	\$ 1,065.26
	1.750	\$ 26.61	\$ 1,123.22	\$ 1,210.44	\$ 1,153.12	\$ 1,306.38	\$ 1,104.54
	2.000	\$ 27.85	\$ 1,175.94	\$ 1,265.63	\$ 1,207.08	\$ 1,367.80	\$ 1,163.46
	2.500	\$ 30.35	\$ 1,247.38	\$ 1,334.59	\$ 1,278.52	\$ 1,440.47	\$ 1,234.90
5.00	1.375	\$ 27.85	\$ 1,180.85	\$ 1,286.74	\$ 1,211.99	\$ 1,410.09	\$ 1,152.18
	1.750	\$ 29.10	\$ 1,240.05	\$ 1,342.20	\$ 1,271.20	\$ 1,463.07	\$ 1,205.17
	2.000	\$ 30.35	\$ 1,296.49	\$ 1,402.41	\$ 1,328.88	\$ 1,522.01	\$ 1,291.50
	2.500	\$ 32.85	\$ 1,369.18	\$ 1,478.82	\$ 1,401.58	\$ 1,595.93	\$ 1,348.00
	3.000	\$ 37.82	\$ 1,494.93	\$ 1,598.34	\$ 1,519.85	\$ 1,769.02	\$ 1,474.99
	3.500	\$ 40.33	\$ 1,595.36	\$ 1,712.49	\$ 1,629.01	\$ 1,871.96	\$ 1,572.95
6.00	1.375	\$ 30.35	\$ 1,267.15	\$ 1,461.52	\$ 1,297.06	\$ 1,609.78	\$ 1,244.75
	1.750	\$ 30.35	\$ 1,438.51	\$ 1,513.25	\$ 1,473.39	\$ 1,742.50	\$ 1,408.61
	2.000	\$ 32.85	\$ 1,503.67	\$ 1,618.28	\$ 1,531.07	\$ 1,792.72	\$ 1,475.02
	2.500	\$ 35.33	\$ 1,582.57	\$ 1,707.17	\$ 1,617.46	\$ 1,876.61	\$ 1,551.43
	3.000	\$ 39.07	\$ 1,704.60	\$ 1,865.32	\$ 1,730.75	\$ 2,008.59	\$ 1,673.44
	3.500	\$ 42.81	\$ 1,801.29	\$ 1,886.01	\$ 1,856.12	\$ 2,106.54	\$ 1,778.86
4.000	\$ 46.53	\$ 1,956.91	\$ 2,174.95	\$ 1,994.29	\$ 2,248.44	\$ 1,933.25	

NOTE: Base Pricing includes cost for internal preparations and raffle drilling for LDT Probes. For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

7KX – Electropneumatic Aluminum Barrel Cylinders

1.50"-6.00" Single Rod End Cylinders

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7KX Single Rod End

Bore	Rod	Per Inch of Stroke	ER*EB*CC*S P	G*J*D*R*Z	H	K	M*O
1.50	0.625	\$ 14.68	\$ 996.93	\$ 972.00	\$ 959.55	\$ 1,065.45	\$ 943.36
	1.000	\$ 15.94	\$ 1,043.02	\$ 1,019.34	\$ 1,009.38	\$ 1,112.79	\$ 990.70
2.00	0.625	\$ 15.94	\$ 1,025.58	\$ 999.41	\$ 984.46	\$ 1,106.56	\$ 967.02
	1.000	\$ 15.94	\$ 1,081.64	\$ 1,059.22	\$ 1,046.76	\$ 1,162.63	\$ 1,025.58
	1.375	\$ 19.66	\$ 1,116.53	\$ 1,099.08	\$ 1,071.67	\$ 1,198.75	\$ 1,055.48
2.50	0.625	\$ 15.94	\$ 1,046.76	\$ 1,013.13	\$ 999.41	\$ 1,135.22	\$ 983.22
	1.000	\$ 17.17	\$ 1,114.04	\$ 1,084.13	\$ 1,072.93	\$ 1,198.75	\$ 1,052.99
	1.375	\$ 19.66	\$ 1,151.41	\$ 1,124.01	\$ 1,115.29	\$ 1,236.13	\$ 1,095.35
	1.750	\$ 20.90	\$ 1,224.93	\$ 1,177.59	\$ 1,136.46	\$ 1,278.49	\$ 1,121.51
3.25	1.000	\$ 20.90	\$ 1,157.66	\$ 1,100.35	\$ 1,084.14	\$ 1,248.61	\$ 1,064.21
	1.375	\$ 23.41	\$ 1,229.92	\$ 1,182.57	\$ 1,181.32	\$ 1,315.88	\$ 1,142.71
	1.750	\$ 23.41	\$ 1,273.52	\$ 1,232.41	\$ 1,222.44	\$ 1,364.48	\$ 1,196.28
	2.000	\$ 24.65	\$ 1,329.59	\$ 1,281.00	\$ 1,236.14	\$ 1,419.30	\$ 1,211.23
4.00	1.000	\$ 20.90	\$ 1,224.94	\$ 1,168.87	\$ 1,142.71	\$ 1,271.03	\$ 1,124.02
	1.375	\$ 23.41	\$ 1,297.20	\$ 1,249.86	\$ 1,246.12	\$ 1,406.84	\$ 1,211.23
	1.750	\$ 24.65	\$ 1,340.81	\$ 1,288.47	\$ 1,285.98	\$ 1,452.93	\$ 1,261.06
	2.000	\$ 25.88	\$ 1,400.60	\$ 1,359.50	\$ 1,332.09	\$ 1,511.50	\$ 1,313.39
	2.500	\$ 28.38	\$ 1,467.88	\$ 1,405.59	\$ 1,394.39	\$ 1,575.03	\$ 1,375.69
5.00	1.000	\$ 24.65	\$ 1,299.69	\$ 1,227.43	\$ 1,212.48	\$ 1,452.93	\$ 1,186.31
	1.375	\$ 25.88	\$ 1,405.59	\$ 1,354.50	\$ 1,330.83	\$ 1,546.38	\$ 1,307.16
	1.750	\$ 27.14	\$ 1,447.95	\$ 1,391.89	\$ 1,379.44	\$ 1,594.96	\$ 1,349.53
	2.000	\$ 28.38	\$ 1,510.24	\$ 1,457.92	\$ 1,437.98	\$ 1,647.29	\$ 1,409.33
	2.500	\$ 30.89	\$ 1,573.80	\$ 1,520.22	\$ 1,495.30	\$ 1,710.84	\$ 1,471.62
	3.000	\$ 35.85	\$ 1,685.92	\$ 1,616.15	\$ 1,591.23	\$ 1,839.16	\$ 1,568.80
	3.500	\$ 38.37	\$ 1,783.10	\$ 1,709.59	\$ 1,683.43	\$ 1,941.33	\$ 1,662.25
6.00	1.375	\$ 28.38	\$ 1,510.24	\$ 1,420.54	\$ 1,405.59	\$ 1,746.97	\$ 1,371.96
	1.750	\$ 28.38	\$ 1,618.63	\$ 1,585.00	\$ 1,555.10	\$ 1,755.68	\$ 1,523.96
	2.000	\$ 30.89	\$ 1,665.98	\$ 1,642.31	\$ 1,603.69	\$ 1,893.99	\$ 1,557.60
	2.500	\$ 33.36	\$ 1,751.94	\$ 1,703.37	\$ 1,669.72	\$ 1,967.49	\$ 1,629.85
	3.000	\$ 33.36	\$ 1,785.58	\$ 1,756.94	\$ 1,751.94	\$ 2,050.97	\$ 1,714.58
	3.500	\$ 37.11	\$ 1,901.47	\$ 1,851.62	\$ 1,829.20	\$ 2,310.12	\$ 1,827.94
	4.000	\$ 45.82	\$ 2,070.90	\$ 1,973.73	\$ 1,969.98	\$ 2,265.26	\$ 1,927.61

NOTE: See Port Options for Cushioning.

Base pricing includes all preparations for external low-profile LDT feedback device.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7KX – Electropneumatic Aluminum Barrel Cylinders

1.50"-6.00" Double Rod End Cylinders

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

7KX Double Rod End

Bore	Rod	Per Inch of Stroke	CC*ER	H	J	K	M*O
1.50	0.625	\$ 15.94	\$ 1,173.84	\$ 1,136.46	\$ 1,150.17	\$ 1,241.12	\$ 1,121.51
	1.000	\$ 17.17	\$ 1,264.80	\$ 1,229.91	\$ 1,239.88	\$ 1,333.32	\$ 1,211.22
2.00	0.625	\$ 17.17	\$ 1,207.49	\$ 1,167.61	\$ 1,182.56	\$ 1,289.71	\$ 1,150.17
	1.000	\$ 19.66	\$ 1,307.15	\$ 1,272.28	\$ 1,285.97	\$ 1,389.38	\$ 1,253.57
	1.375	\$ 25.88	\$ 1,385.63	\$ 1,340.80	\$ 1,368.20	\$ 1,467.87	\$ 1,328.33
2.50	0.625	\$ 17.17	\$ 1,237.39	\$ 1,190.04	\$ 1,204.99	\$ 1,328.33	\$ 1,175.08
	1.000	\$ 22.16	\$ 1,352.01	\$ 1,312.14	\$ 1,322.11	\$ 1,436.73	\$ 1,293.45
	1.375	\$ 22.16	\$ 1,425.52	\$ 1,384.40	\$ 1,368.20	\$ 1,510.23	\$ 1,366.96
	1.750	\$ 24.65	\$ 1,570.04	\$ 1,482.83	\$ 1,521.45	\$ 1,624.85	\$ 1,466.64
3.25	1.000	\$ 22.16	\$ 1,426.77	\$ 1,352.02	\$ 1,368.21	\$ 1,516.48	\$ 1,332.09
	1.375	\$ 25.88	\$ 1,558.85	\$ 1,509.00	\$ 1,511.50	\$ 1,644.80	\$ 1,471.62
	1.750	\$ 27.14	\$ 1,669.72	\$ 1,618.63	\$ 1,628.61	\$ 1,760.68	\$ 1,592.48
	2.000	\$ 29.63	\$ 1,774.37	\$ 1,682.18	\$ 1,725.79	\$ 1,864.09	\$ 1,656.02
4.00	1.000	\$ 23.41	\$ 1,500.27	\$ 1,418.05	\$ 1,444.22	\$ 1,612.41	\$ 1,399.36
	1.375	\$ 25.88	\$ 1,649.79	\$ 1,583.76	\$ 1,587.48	\$ 1,745.73	\$ 1,548.87
	1.750	\$ 28.38	\$ 1,724.54	\$ 1,667.23	\$ 1,670.97	\$ 1,834.18	\$ 1,642.31
	2.000	\$ 29.63	\$ 1,826.70	\$ 1,759.42	\$ 1,784.35	\$ 1,938.83	\$ 1,739.49
	2.500	\$ 35.85	\$ 1,969.98	\$ 1,895.24	\$ 1,907.68	\$ 2,074.64	\$ 1,876.53
5.00	1.000	\$ 25.88	\$ 1,604.94	\$ 1,518.97	\$ 1,533.91	\$ 1,760.68	\$ 1,492.80
	1.375	\$ 28.38	\$ 1,783.10	\$ 1,708.35	\$ 1,732.01	\$ 1,923.88	\$ 1,684.68
	1.750	\$ 30.89	\$ 1,842.90	\$ 1,773.13	\$ 1,785.59	\$ 1,988.67	\$ 1,744.47
	2.000	\$ 33.36	\$ 1,974.96	\$ 1,905.20	\$ 1,923.88	\$ 2,112.02	\$ 1,875.30
	2.500	\$ 39.60	\$ 2,107.02	\$ 2,028.54	\$ 2,054.70	\$ 2,242.84	\$ 2,006.11
	3.000	\$ 44.58	\$ 2,295.17	\$ 2,197.98	\$ 2,224.14	\$ 2,447.17	\$ 2,264.01
	3.500	\$ 52.05	\$ 2,474.58	\$ 2,374.90	\$ 2,401.06	\$ 2,634.06	\$ 2,353.72
6.00	1.375	\$ 30.89	\$ 1,915.15	\$ 1,811.75	\$ 1,826.70	\$ 2,153.14	\$ 1,776.87
	1.750	\$ 33.36	\$ 2,099.55	\$ 2,036.02	\$ 2,064.67	\$ 2,236.60	\$ 2,004.87
	2.000	\$ 35.85	\$ 2,196.74	\$ 2,133.19	\$ 2,171.81	\$ 2,424.74	\$ 2,087.10
	2.500	\$ 40.84	\$ 2,354.96	\$ 2,272.74	\$ 2,306.38	\$ 2,569.26	\$ 2,231.62
	3.000	\$ 47.08	\$ 2,465.84	\$ 2,432.22	\$ 2,437.19	\$ 2,732.46	\$ 2,393.59
	3.500	\$ 54.55	\$ 2,658.97	\$ 2,585.46	\$ 2,609.14	\$ 2,903.15	\$ 2,585.46
	4.000	\$ 60.77	\$ 2,949.26	\$ 2,847.09	\$ 2,852.09	\$ 3,143.62	\$ 2,805.99

NOTE: See Port Options for Cushioning.

Base pricing includes all preparations for external low-profile LDT feedback device.

Head End Cushions are non-adjustable on 1.50"-2.50" bore cylinders with maximum rod diameters.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

7 Series Modifications

Port Options

7K,7KA,7KX,7L,7LX Port Options

Bore	Cushions Per End	Extra Ports and/or Re-located Ports per end	Air Bleeds Per End	Coupling Oversized	Switch Prep per end	Dynaswitch Prep per end
1.50	\$ 83.48	\$ 33.64	\$ 52.34	\$ 54.82	\$ 114.40	\$ 43.61
2.00	\$ 83.48	\$ 33.64	\$ 52.34	\$ 54.82	\$ 114.40	\$ 43.61
2.50	\$ 83.48	\$ 33.64	\$ 52.34	\$ 54.82	\$ 114.40	\$ 43.61
3.25	\$ 100.91	\$ 42.36	\$ 53.57	\$ 69.77	\$ 114.40	\$ 43.61
4.00	\$ 100.91	\$ 42.36	\$ 53.57	\$ 69.77	\$ 114.40	\$ 43.61
5.00	\$ 100.91	\$ 42.36	\$ 53.57	\$ 69.77	\$ 114.40	\$ 53.57
6.00	\$ 158.22	\$ 44.86	\$ 67.29	\$ 72.27	\$ 114.40	\$ 53.57
8.00	\$ 155.74	\$ 49.84	\$ 76.00	\$ 80.98	\$ 114.40	\$ 78.50
10.00	\$ 199.35	\$ 52.34	\$ 85.97	\$ 87.22		
12.00	\$ 251.68	\$ 54.82	\$ 85.97	\$ 93.44		
14.00	\$ 358.82	\$ 59.82	\$ 88.45	\$ 138.30		
16.00	\$ 831.26	\$ 110.76	\$ 94.15			
18.00	\$ 1,062.75	\$ 110.76	\$ 94.15			
20.00	\$ 1,357.37	\$ 110.76	\$ 99.69			

7LX Port Options

Bore	Integral Valve Manifold DO3*DO5*SVA*SVD	Manifold Prep
1.50	\$ 623.27	\$ 95.93
2.00	\$ 623.27	\$ 95.93
2.50	\$ 623.27	\$ 95.93
3.25	\$ 782.51	\$ 100.91
4.00	\$ 803.66	\$ 100.91
5.00	\$ 824.82	\$ 100.91
6.00	\$ 907.30	\$ 122.11
8.00	\$ 1,097.83	\$ 194.37

Quick Reference - Application of Port Re-loaction Adders

Mount	HEAD END PORT LOCATIONS				CAP END PORT LOCATIONS				
	Position #1	Position #2	Position #3	Position #4	Position #1	Position #2	Position #3	Position #4	Position #5
A~AA~B~BB~CC~E~L ~M~N~O~PP~QQ	STD	NO	NO	NO	STD	NO	NO	NO	YES
D~G~SP	STD	NO	NO	NO	STD	YES	NO	YES	N/A
H~J	STD	YES	YES	YES	STD	YES	YES	YES	YES
R~Z	STD	NO	NO	NO	STD	NO	NO	NO	N/A
EB	STD	NO	NO	NO	STD	N/A	NO	N/A	YES
ER	STD	N/A	NO	N/A	STD	NO	NO	NO	YES
K	STD	N/A	YES	N/A	STD	N/A	YES	N/A	YES
P	STD	NO	NO	NO	STD	YES	NO	YES	YES
Q	STD	YES	NO	YES	STD	NO	NO	NO	YES

7 Series Modifications

Rod End Modifications

7K,7KA,7KX,7L,7LX ROD END OPTIONS

Rod	A	Per inch or Fraction Over A	WF	Per inch or Fraction over WF	Flanged Rod End Base	Wrench Flats Per Extra Pair	Steel Rod Stud	SS Rod Stud	Rod Gland Drain Per Each	Metallic Rod Scraper
0.625	0.750	\$ 2.50	1.000	\$ 1.24	\$ 38.62	\$ 9.97	\$ 11.21	\$ 84.84	\$ 59.82	\$ 28.67
1.000	1.125	\$ 3.73	1.375	\$ 2.50	\$ 38.62	\$ 11.21	\$ 13.72	\$ 89.94	\$ 62.30	\$ 37.39
1.375	1.625	\$ 4.99	1.625	\$ 3.73	\$ 38.62	\$ 11.21	\$ 19.94	\$ 142.23	\$ 66.02	\$ 56.07
1.750	2.000	\$ 7.48	1.875	\$ 4.99	\$ 48.59	\$ 13.72	\$ 37.39	\$ 191.73	\$ 68.53	\$ 78.50
2.000	2.250	\$ 9.97	2.000	\$ 6.25	\$ 51.08	\$ 16.19	\$ 82.24	\$ 218.98	\$ 71.02	\$ 87.22
2.500	3.000	\$ 13.72	2.250	\$ 9.97	\$ 71.02	\$ 18.69	\$ 108.39	\$ 380.36	\$ 79.74	\$ 155.74
3.000	3.500	\$ 16.19	2.250	\$ 11.21	\$ 103.41	\$ 21.20	\$ 142.86	\$ 781.33	\$ 97.18	\$ 326.44
3.500	3.500	\$ 19.94	2.250	\$ 13.72	\$ 108.39	\$ 22.43	\$ 188.29	\$ 848.10	\$ 108.39	\$ 399.93
4.000	4.000	\$ 23.67	2.250	\$ 16.19	\$ 113.38	\$ 26.16	\$ 248.15	\$ 1,017.69	\$ 113.38	\$ 488.40
4.500	4.500	\$ 33.64	2.250	\$ 21.20	\$ 130.82	\$ 27.42	\$ 327.06	\$ 1,340.01	\$ 117.12	\$ 518.31
5.000	5.000	\$ 42.36	2.250	\$ 32.39	\$ 139.55	\$ 29.91	\$ 431.06	\$ 2,042.48	\$ 122.11	\$ 584.33
5.500	5.500	\$ 49.84	2.250	\$ 36.13	\$ 154.49	\$ 34.88	\$ 568.13	\$ 2,484.35	\$ 128.33	\$ 702.69

Additional Rod End Modifications

Modification Description	Rod Size	Adder
Eliptical rod end	.63"-1.00"	\$ 38.62
Metric threads, course threads, left handed threads	1.38"-2.00"	\$ 48.59
R.H. Acme threads	2.50"-3.50"	\$ 71.02
Snap ring groove - Max. .25" width	ALL	\$ 32.39
Turn down diameter .001" to .005" tolerance	ALL	\$ 37.39
Turn down diameter - No tolerance	ALL	\$ 19.94
Drill, c'sink, and tap lock screw hole	ALL	\$ 49.84
Keyway - Max. .25" x 2.00" long	.63"-3.50"	\$ 242.95
Crossdrilled hole through pist rod	.63"-1.00"	\$ 21.20
	1.38"-2.00"	\$ 26.16
	2.50"-3.50"	\$ 51.08
	4.00"-5.50"	\$ 69.77
Pin rod clevis or rod eye to piston rod	.63"-1.00"	\$ 38.62
	1.38"-2.00"	\$ 43.61
	2.50"-3.50"	\$ 71.02
	4.00"-5.50"	\$ 103.41

7 Series Modifications

Material Options

7K,7KA,7KX,7L,7LX ROD MATERIAL OPTIONS

17-4 PH Stainless Steel Piston Rod				303 Stainless Steel Piston Rod		
Rod	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base
0.625	\$ 3.73	\$ 7.47	\$ 18.69	\$ 3.73	\$ 7.47	\$ 17.45
1.000	\$ 6.25	\$ 12.48	\$ 28.67	\$ 4.99	\$ 9.97	\$ 26.16
1.375	\$ 11.21	\$ 22.42	\$ 69.77	\$ 9.97	\$ 19.94	\$ 44.86
1.750	\$ 13.72	\$ 27.43	\$ 118.36	\$ 11.21	\$ 22.42	\$ 77.25
2.000	\$ 21.20	\$ 42.38	\$ 200.60	\$ 17.45	\$ 34.89	\$ 158.22
2.500	\$ 34.88	\$ 69.76	\$ 381.25	\$ 27.42	\$ 54.83	\$ 267.86
3.000	\$ 42.36	\$ 84.72	\$ 583.09	\$ 34.88	\$ 69.76	\$ 357.58
3.500	\$ 44.86	\$ 89.72	\$ 682.77	\$ 37.39	\$ 74.77	\$ 475.94
4.000	\$ 62.30	\$ 124.59	\$ 813.57	\$ 54.82	\$ 109.64	\$ 634.16
4.500	\$ 92.20	\$ 184.40	\$ 1,258.37	\$ 83.48	\$ 166.97	\$ 1,056.54
5.000	\$ 112.13	\$ 224.25	\$ 1,673.25	\$ 100.91	\$ 201.83	\$ 1,416.59
5.500	\$ 115.87	\$ 231.74	\$ 1,863.86	\$ 109.65	\$ 219.29	\$ 1,563.62
7.000	\$ 187.69	\$ 375.37	\$ 3,378.31			
8.500	\$ 276.73	\$ 553.49	\$ 5,534.76			
10.000	\$ 383.03	\$ 766.07	\$ 9,192.69			

7K,7KX,7L,7LX TUBE MATERIAL OPTIONS

Bore	TYPE I CHROME		TYPE II CHROME	
	List Price		List Price	
	Base	Per Inch	Base	Per Inch
1.50	\$ 11.84	\$ 5.39	\$ 17.75	\$ 8.09
2.00	\$ 13.14	\$ 5.99	\$ 19.98	\$ 9.10
2.50	\$ 17.36	\$ 7.49	\$ 26.39	\$ 11.38
3.25	\$ 25.58	\$ 9.73	\$ 38.88	\$ 14.78
4.00	\$ 34.47	\$ 11.97	\$ 52.39	\$ 18.19
5.00	\$ 48.20	\$ 14.88	\$ 73.66	\$ 22.74
6.00	\$ 69.54	\$ 17.95	\$ 105.70	\$ 27.28
7.00	\$ 83.77	\$ 20.95	\$ 127.33	\$ 31.84
8.00	\$ 107.70	\$ 23.94	\$ 163.70	\$ 36.38
10.00	\$ 171.84	\$ 29.92	\$ 261.20	\$ 45.47
12.00	\$ 238.32	\$ 35.90	\$ 362.24	\$ 54.56
14.00	\$ 287.91	\$ 41.88	\$ 437.62	\$ 63.66
16.00	\$ 352.95	\$ 47.86	\$ 536.48	\$ 72.75
18.00	\$ 450.88	\$ 53.84	\$ 685.34	\$ 81.84
20.00	\$ 560.84	\$ 59.83	\$ 852.47	\$ 90.93

7 Series Modifications

Seal Options

7K,7KA,7KX,7L,7LX ROD SEAL OPTIONS

Rod	Single Rod End			Double Rod End		
	VITON	EPR	TEFLON	VITON	EPR	TEFLON
0.625	\$ 18.38	\$ 20.22	\$ 23.25	\$ 36.77	\$ 40.43	\$ 46.50
1.000	\$ 17.84	\$ 19.63	\$ 22.58	\$ 35.68	\$ 39.25	\$ 45.14
1.375	\$ 23.48	\$ 25.82	\$ 29.70	\$ 46.96	\$ 51.66	\$ 59.39
1.750	\$ 27.49	\$ 30.25	\$ 34.79	\$ 55.00	\$ 60.49	\$ 69.57
2.000	\$ 28.47	\$ 32.73	\$ 37.65	\$ 56.94	\$ 65.47	\$ 75.30
2.500	\$ 36.33	\$ 41.78	\$ 48.04	\$ 72.65	\$ 83.55	\$ 96.09
3.000	\$ 66.41	\$ 76.38	\$ 87.82	\$ 132.82	\$ 152.75	\$ 175.64
3.500	\$ 74.52	\$ 85.69	\$ 98.56	\$ 149.04	\$ 171.40	\$ 197.10
4.000	\$ 88.50	\$ 106.17	\$ 122.11	\$ 176.97	\$ 212.37	\$ 244.21
4.500	\$ 112.86	\$ 135.43	\$ 155.74	\$ 225.71	\$ 270.86	\$ 311.49
5.000	\$ 186.69	\$ 224.03	\$ 257.63	\$ 373.38	\$ 448.06	\$ 515.27
5.500	\$ 253.10	\$ 316.38	\$ 363.83	\$ 506.20	\$ 632.74	\$ 727.66

7K,7KA,7KX,7L,7LX TUBE SEAL OPTIONS

Bore	VITON w/SCR**	VITON	EPR	TEFLON
1.50	\$ 19.64	\$ 14.87	\$ 16.35	\$ 17.98
2.00	\$ 22.19	\$ 22.08	\$ 24.29	\$ 26.72
2.50	\$ 24.05	\$ 26.96	\$ 29.65	\$ 32.63
3.25	\$ 59.49	\$ 35.50	\$ 39.06	\$ 42.96
4.00	\$ 28.22	\$ 40.03	\$ 44.03	\$ 48.43
5.00	\$ 39.06	\$ 69.86	\$ 46.03	\$ 50.64
6.00	\$ 72.36	\$ 71.08	\$ 80.34	\$ 88.37
8.00	\$ 105.68	\$ 117.03	\$ 140.43	\$ 154.47
10.00		\$ 152.12	\$ 182.55	\$ 200.81
12.00		\$ 197.76	\$ 237.32	\$ 261.05
14.00		\$ 257.09	\$ 308.51	\$ 339.37
16.00		\$ 359.93	\$ 431.92	\$ 475.10
18.00		\$ 503.90	\$ 604.68	\$ 665.14
20.00		\$ 705.46	\$ 846.54	\$ 931.20

7 Series Modifications

Supports

7K,7KA,7KX,7L,7LX INTERNAL STOP

Bore	Rod	Per Inch of Stop	Stop Collar Base	Dual Piston Base
1.50	0.625	\$ 13.49	\$ 21.57	\$ 53.90
	1.000	\$ 13.49	\$ 22.91	\$ 60.65
2.00	0.625	\$ 13.49	\$ 22.91	\$ 61.99
	1.000	\$ 14.81	\$ 25.60	\$ 71.42
	1.375	\$ 18.88	\$ 29.65	\$ 79.51
2.50	0.625	\$ 14.81	\$ 22.91	\$ 67.38
	1.000	\$ 16.17	\$ 26.96	\$ 79.51
	1.375	\$ 20.21	\$ 32.35	\$ 92.99
	1.750	\$ 21.57	\$ 36.37	\$ 102.43
3.25	1.000	\$ 18.88	\$ 29.65	\$ 87.59
	1.375	\$ 22.91	\$ 33.69	\$ 105.12
	1.750	\$ 24.27	\$ 39.08	\$ 117.23
	2.000	\$ 29.65	\$ 44.47	\$ 128.02
4.00	1.000	\$ 20.21	\$ 31.00	\$ 109.15
	1.375	\$ 25.60	\$ 36.37	\$ 129.37
	1.750	\$ 28.29	\$ 41.77	\$ 141.49
	2.000	\$ 31.00	\$ 47.16	\$ 153.62
	2.500	\$ 35.05	\$ 52.55	\$ 169.80
5.00	1.000	\$ 26.96	\$ 36.37	\$ 137.45
	1.375	\$ 32.35	\$ 41.77	\$ 160.36
	1.750	\$ 33.69	\$ 47.16	\$ 171.14
	2.000	\$ 36.37	\$ 52.55	\$ 187.31
	2.500	\$ 41.77	\$ 59.29	\$ 204.84
	3.000	\$ 49.86	\$ 68.73	\$ 235.83
	3.500	\$ 55.26	\$ 76.81	\$ 270.87
6.00	1.375	\$ 37.74	\$ 45.82	\$ 199.45
	1.750	\$ 39.08	\$ 52.55	\$ 229.10
	2.000	\$ 44.47	\$ 60.65	\$ 247.95
	2.500	\$ 48.52	\$ 67.38	\$ 269.51
	3.000	\$ 57.94	\$ 80.86	\$ 311.28
	3.500	\$ 63.34	\$ 90.30	\$ 338.25
8.00	1.375	\$ 48.52	\$ 57.94	\$ 277.61
	1.750	\$ 51.21	\$ 66.02	\$ 315.34
	2.000	\$ 56.60	\$ 75.47	\$ 328.81
	2.500	\$ 60.65	\$ 83.55	\$ 362.50
	3.000	\$ 70.07	\$ 99.72	\$ 413.70
	3.500	\$ 78.15	\$ 107.80	\$ 439.33
	4.000	\$ 83.55	\$ 119.92	\$ 477.05
	4.500	\$ 99.72	\$ 134.77	\$ 518.82
	5.000	\$ 115.90	\$ 148.24	\$ 561.93
	5.500	\$ 121.29	\$ 150.93	\$ 613.14

7K,7KA,7KX,7L,7LX INTERNAL STOP

Bore	Rod	Per Inch of Stop	Stop Collar Base	Dual Piston Base
10.00	1.750	\$ 74.12	\$ 80.86	\$ 672.44
	2.000	\$ 78.15	\$ 94.34	\$ 672.44
	2.500	\$ 82.20	\$ 106.45	\$ 672.44
	3.000	\$ 92.99	\$ 126.68	\$ 672.44
	3.500	\$ 99.72	\$ 144.20	\$ 672.44
	4.000	\$ 110.51	\$ 159.01	\$ 672.44
	4.500	\$ 122.63	\$ 185.98	\$ 672.44
	5.000	\$ 136.11	\$ 195.41	\$ 672.44
12.00	2.000	\$ 102.43	\$ 105.12	\$ 857.05
	2.500	\$ 109.15	\$ 119.92	\$ 857.05
	3.000	\$ 130.71	\$ 146.88	\$ 857.05
	3.500	\$ 133.41	\$ 160.36	\$ 857.05
	4.000	\$ 137.45	\$ 177.88	\$ 857.05
	4.500	\$ 150.93	\$ 196.75	\$ 857.05
	5.000	\$ 163.06	\$ 214.26	\$ 857.05
	5.500	\$ 180.58	\$ 241.22	\$ 857.05
14.00	2.500	\$ 119.92	\$ 153.62	\$ 1,045.71
	3.000	\$ 133.41	\$ 160.36	\$ 1,045.71
	3.500	\$ 146.88	\$ 177.88	\$ 1,045.71
	4.000	\$ 152.28	\$ 199.45	\$ 1,045.71
	4.500	\$ 164.41	\$ 223.71	\$ 1,045.71
	5.000	\$ 175.19	\$ 246.61	\$ 1,045.71
	5.500	\$ 191.35	\$ 274.91	\$ 1,045.71

TIE ROD SUPPORT

Bore	Per Tie Rod Support
1.50	\$ 86.17
2.00	\$ 144.50
2.50	\$ 144.12
3.25	\$ 178.09
4.00	\$ 181.83
5.00	\$ 214.65
6.00	\$ 242.20
8.00	\$ 278.08
10.00	\$ 278.08

7 Series Modifications

Tandem Construction

HOW TO PRICE TANDEM CYLINDERS...

To price tandem cylinders, use the following directions:

1. Use base price for double rod end cylinder for forward section plus:
2. Stroke adder for double rod end cylinder x inches of stroke for forward section, plus:
3. Base price for single rod end cylinder for rear section plus:
4. Stroke adder for single rod end cylinder x inches of stroke for rear section, plus:
5. Tandem bearing adder from the table at the right.

ROD DIAMETER In Inches	3THY-7LY-7KY TANDEM BEARING ADDER
0.63	\$ 139.55
1.00	\$ 140.79
1.38	\$ 149.51
1.75	\$ 153.25
2.00	\$ 160.72
2.50	\$ 179.41
3.00	\$ 184.40
3.50	\$ 198.09

7 Series Modifications

Additional Options and Modifications

KEY RETAINER PLATE		TIE ROD EXTENSION		MAG PISTON
Bore	Ext. Key Retainer Plate	BB	Per Inch over BB	Magnetic Piston Base
1.50	\$ 103.41	1.000	\$ 3.73	\$ 27.57
2.00	\$ 108.39	1.125	\$ 3.73	\$ 27.57
2.50	\$ 113.38	1.125	\$ 3.73	\$ 27.57
3.25	\$ 129.58	1.375	\$ 4.99	\$ 37.14
4.00	\$ 137.06	1.375	\$ 4.99	\$ 37.14
5.00	\$ 153.25	1.813	\$ 4.99	\$ 51.52
6.00	\$ 166.95	1.813	\$ 4.99	\$ 51.52
8.00	\$ 219.28	2.313	\$ 6.25	\$ 51.52
10.00		2.688	\$ 6.25	\$ 72.12
12.00		2.688	\$ 6.25	
14.00		3.188	\$ 7.48	

7K,7KA,7L STROKE ADJUST		
Bore	Base	Per Inch
1.50	\$ 211.80	\$ 1.24
2.00	\$ 232.98	\$ 2.50
2.50	\$ 232.98	\$ 2.50
3.25	\$ 241.71	\$ 3.73
4.00	\$ 241.71	\$ 3.73
5.00	\$ 287.80	\$ 4.99
6.00	\$ 287.80	\$ 4.99
8.00	\$ 301.52	\$ 4.99

7L,7LX WATER FITTED OPTIONS

Bore	Per Inch of Stroke	NC Base	CCE Base	CHE Base	C2E Base
1.50	\$ 2.50	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
2.00	\$ 3.73	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
2.50	\$ 4.99	\$ 317.71	\$ 327.67	\$ 346.37	\$ 356.34
3.25	\$ 6.25	\$ 346.36	\$ 356.33	\$ 378.75	\$ 388.72
4.00	\$ 7.48	\$ 347.61	\$ 357.58	\$ 380.00	\$ 389.97
5.00	\$ 9.97	\$ 469.70	\$ 484.65	\$ 502.09	\$ 517.04
6.00	\$ 11.21	\$ 541.97	\$ 556.93	\$ 586.83	\$ 601.78
7.00	\$ 14.96	\$ 875.86	\$ 895.80	\$ 920.72	\$ 940.66
8.00	\$ 17.45	\$ 1,377.97	\$ 1,397.90	\$ 1,422.82	\$ 1,442.76

ROD BOOTS

Rod	Per Inch of Stroke	Base
0.625	\$ 6.25	\$ 166.95
1.000	\$ 6.25	\$ 166.95
1.375	\$ 6.25	\$ 170.69
1.750	\$ 7.48	\$ 185.65
2.000	\$ 7.48	\$ 185.65
2.500	\$ 7.48	\$ 193.12
3.000	\$ 7.48	\$ 193.12
3.500	\$ 9.97	\$ 196.86
4.000	\$ 12.47	\$ 241.71
4.500	\$ 12.47	\$ 241.71
5.000	\$ 12.47	\$ 241.71
5.500	\$ 12.47	\$ 271.61
7.000	\$ 12.47	\$ 271.61
8.500	\$ 13.72	\$ 310.23
10.000	\$ 16.19	\$ 363.81

7 Series Accessories

Accessories

NFPA Accessories

THREAD SIZE In Inches	ROD CLEVIS			CLEVIS PIN		ROD EYE		BASE PIVOT	
	PART NO.	DIM 'CE'	PRICE	PART NO.	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	517-05	1.50	\$ 29.91	KY8658-1	\$ 9.97	Y8422	\$ 27.42	Y8430	\$ 54.82
.50"-20	521957	1.50	\$ 31.15	KY8658-1	\$ 9.97		\$ -	Y8430	\$ 54.82
.75"-16	517-07-M	2.13	\$ 46.10	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
	517-07	2.38	\$ 49.84	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
1.00"-14	517-10-M	2.94	\$ 58.56	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
	517-10	3.13	\$ 62.30	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
1.25"-12	517-13-M	3.75	\$ 84.73	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
	517-13	4.13	\$ 85.97	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
1.50"-12	517-17	4.50	\$ 117.12	KY8658-5	\$ 33.64	Y8426	\$ 114.63	Y8434	\$ 225.51
1.88"-12	517-20	5.50	\$ 224.27	KY8658-6	\$ 38.62	Y8427	\$ 228.00	Y8435	\$ 308.99
2.25"-12	517-25	6.50	\$ 392.46	KY8658-17	\$ 88.45	Y8428	\$ 372.53	Y8436	\$ 500.85
2.50"-12	517-30-M	6.75	\$ 548.20	KY8658-18	\$ 138.30	Y8429	\$ 464.73	Y8437	\$ 958.10
3.25"-12	517-35-M	7.75	\$ 988.01	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
	517-35	8.50	\$ 1,019.16	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
3.50"-12	516	10.00	\$ 1,161.17	KY8658-20	\$ 271.61	905-35-M	\$ 1,151.23	82277-001	\$ 1,599.73
4.00"-12	517-40	10.00	\$ 1,273.32	KY8658-20	\$ 271.61	905-40	\$ 1,419.09	82277-001	\$ 1,599.73
5.00"-12				KY8658-21	\$ 508.33	Y8566	\$ 2,453.18	82278	\$ 2,223.95

NFPA Accessories

THREAD SIZE In Inches	BASE CLEVIS		JAM NUT		LINEAR ALIGN. CPLR	
	PART NO. TAP HOLES	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	77500	\$ 85.97	13-720	\$ 2.50	788-.437	\$ 76.00
.50"-20	77500	\$ 85.97	13-820	\$ 3.73	788-.500	\$ 80.98
.75"-16	77501	\$ 103.41	13-1216	\$ 3.73	788-.750	\$ 100.91
	77501	\$ 103.41	13-1216	\$ 3.73	788-.750	\$ 100.91
1.00"-14	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
1.25"-12	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
1.50"-12	77504	\$ 292.79	13-2412	\$ 26.16	788-1.500	\$ 383.75
1.88"-12	77505	\$ 752.53	13-3012	\$ 51.08	788-1.875	\$ 631.67
2.25"-12	88770	\$ 907.02	13-3612	\$ 80.98	788-2.250	\$ 1,040.34
2.50"-12	88771	\$ 1,179.88	13-4012	\$ 83.48	788-2.500	\$ 1,315.67
3.25"-12	88772	\$ 1,576.07	13-5212	\$ 843.47		
	88772	\$ 1,576.07	13-5212	\$ 843.47		
3.50"-12	88773	\$ 1,998.43				
4.00"-12	88773	\$ 1,998.43				
5.00"-12	88774	\$ 3,976.92				

7 Series Accessories

Accessories

NFPA Accessories

ROD DIA. IN INCHES	FLANGED ROD COUPLING		FASTENERS			WELD PLATES	
	PART NUMBER	PRICE	PART NUMBER	REQ'D QTY	PRICE EACH	PART NUMBER	PRICE
0.63	902-062	\$ 95.93	89-1024-1.000	4	\$ 0.63	903-062	\$ 76.00
1.00	902-100	\$ 125.83	89-420-1.250	6	\$ 0.68	903-100	\$ 95.93
1.38	902-137	\$ 148.26	89-518-1.500	6	\$ 0.72	903-137	\$ 117.12
1.75	902-175	\$ 201.84	89-518-1.750	8	\$ 0.81	903-175	\$ 154.49
2.00	902-200	\$ 331.42	89-616-2.250	12	\$ 1.45	903-200	\$ 240.46
2.50	902-250	\$ 412.39	89-616-2.500	12	\$ 1.58	903-250	\$ 259.15
3.00	902-300	\$ 546.95	89-813-3.250	12	\$ 3.57	903-300	\$ 279.09
3.50	902-350	\$ 687.74	89-1011-3.500	12	\$ 7.00	903-350	\$ 345.11
4.00	902-400	\$ 844.72	89-1011-3.500	12	\$ 7.00	903-400	\$ 375.11
4.50	902-450	\$ 924.47	89-1011-4.000	12	\$ 7.91	903-450	\$ 409.90
5.00	902-500	\$ 1,249.63	89-1011-4.000	12	\$ 7.91	903-500	\$ 443.55
5.50	902-550	\$ 1,304.47	89-1210-5.000	12	\$ 11.32	903-550	\$ 584.33

Accessories

SPHERICAL ROD EYES			BASE CLEVIS FOR SPHERICAL ROD EYES			PIVOT PINS FOR SPHERICAL ROD EYES		
THREAD SIZE	PART NUMBER	PRICE	'CS' DIM.	PART NUMBER	PRICE	'CD' DIM.	PART NUMBER	PRICE
.44"-20	79787-1	\$ 79.74	0.6875	79788	\$ 112.13	82	K79791	\$ 32.39
.75"-16	79787-2	\$ 119.60	0.9375	79789	\$ 143.28	104	K79792	\$ 42.36
1.00"-14	79787-3	\$ 188.13	1.4375	79780	\$ 171.94	125	K79793	\$ 61.05

Heavy Duty Spherical Rod Eyes

PART NUMBER	CD	A	CE	EX	ER	LE	KK	LOAD CAPACITY	LIST PRICE
588-1	.5000-.0005	0.69	0.88	0.44	0.88	0.75	.44"-20	2644	\$ 93.44
588-2	.7500-.0005	1.00	1.25	0.66	1.25	1.06	.75"-16	9441	\$ 113.38
588-3	1.000-.0005	1.50	1.88	0.88	1.38	1.44	1.00"-14	16860	\$ 125.83
588-4	1.375-.0005	2.00	2.13	1.19	1.81	1.88	1.25"-12	28562	\$ 186.89
588-5	1.750-.0005	2.13	2.13	1.53	2.19	2.13	1.50"-12	43005	\$ 442.30
588-6	2.000-.0005	2.88	2.50	1.75	2.63	2.50	1.125"-12	70193	\$ 591.80

7 Series Accessories

Switches

7L,7K,7KA,AS,ASH Strokemaster Proximity Switch Options

Bore Size	DC Micro Connector		AC/DC Micro Connector		AC/DC Mini Connector	
	Part #	Price	Part #	Price	Part #	Price
1.50	787-1	\$ 220.48	787-7-1025	\$ 237.12	787-8-1025	\$ 237.12
2.00	787-1	\$ 220.48	787-7-1025	\$ 237.12	787-8-1025	\$ 237.12
2.50	787-2	\$ 220.48	787-7-1250	\$ 237.12	787-8-1250	\$ 237.12
3.25	787-3	\$ 220.48	787-7-2062	\$ 237.12	787-8-2062	\$ 237.12
4.00	787-3	\$ 220.48	787-7-2062	\$ 237.12	787-8-2062	\$ 237.12
5.00	787-4	\$ 220.48	787-7-2875	\$ 237.12	787-8-2875	\$ 237.12
6.00	787-4	\$ 220.48	787-7-2875	\$ 237.12	787-8-2875	\$ 237.12
8.00	787-5	\$ 220.48	787-7-3775	\$ 237.12	787-8-3775	\$ 237.12

7KA,AS, ASH Solid State Switches

Bore	Output	.2 m Cable with M8 Connector	5 m Pigtail Cable
1.50" Through 4.00"	PNP NO	BMF305K-PS-C-2-S49-00.2 890-1-HW46 \$ 92.56	BMF305K-PS-C-2-PU-05 890-3-HW46 \$ 96.72
	NPN NO	BMF305K-NS-C-2-S49-00.2 890-2-HW46 \$ 92.56	BMF305K-NS-C-2-PU-05 890-4-HW46 \$ 96.72
5.00" Through 8.00"	PNP NO	BMF305K-PS-C-2-S49-00.2 890-1-HW10 \$ 88.40	BMF305K-PS-C-2-PU-05 890-3-HW10 \$ 92.56
	NPN NO	BMF305K-NS-C-2-S49-00.2 890-2-HW10 \$ 88.40	BMF305K-NS-C-2-PU-05 890-4-HW10 \$ 92.56

7KA,AS,ASH Reed Switches

Bore	Output	.2 m Cable with M8 Connector	5 m Pigtail Cable
1.50" To 4.00"	NO	BMF305K-R-PS-F-3-S49-00.2 890-6-HW46 \$ 60.32	BMF305K-R-PS-F-3-03 890-7-HW46 \$ 60.32
5.00" To 8.00"	NO	BMF305K-R-PS-F-3-S49-00.2 890-6-HW10 \$ 56.16	BMF305K-R-PS-F-3-03 890-6-HW10 \$ 56.16

Solid State & Reed Switch Cables

Bore	Output	Mating Connector for .2 m Cable with M8 Connector
All	All	C49ANE00VY-050M 830-2 \$ 28.08

7 Series Accessories

Switches

7L,7K, 7KA, AS, ASH Standard Dynaswitch Options

Bore	Rod	Head End		Cap End	
		Part #	Price	Part #	Price
1.50	0.625	355-7	\$ 273.71	355-7	\$ 273.71
	1.000	355-7	\$ 273.71	355-7	\$ 273.71
2.00	0.625	355-7	\$ 273.71	355-7	\$ 273.71
	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
2.50	0.625	355-7	\$ 273.71	355-7	\$ 273.71
	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
	1.750	355-7	\$ 273.71	355-7	\$ 273.71
3.25	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
	1.750	355-7	\$ 273.71	355-7	\$ 273.71
	2.000	355-7	\$ 273.71	355-7	\$ 273.71
4.00	1.000	355-7	\$ 273.71	355-7	\$ 273.71
	1.375	355-7	\$ 273.71	355-7	\$ 273.71
	1.750	355-7	\$ 273.71	355-7	\$ 273.71
	2.000	355-7	\$ 273.71	355-7	\$ 273.71
	2.500	355-7	\$ 273.71	355-7	\$ 273.71
5.00	1.000	355-8	\$ 302.46	355-8	\$ 302.46
	1.375	355-7	\$ 273.71	355-8	\$ 302.46
	1.750	355-7	\$ 273.71	355-8	\$ 302.46
	2.000	355-7	\$ 273.71	355-8	\$ 302.46
	2.500	355-7	\$ 273.71	355-8	\$ 302.46
	3.000	355-7	\$ 273.71	355-8	\$ 302.46
	3.500	355-7	\$ 273.71	355-8	\$ 302.46
6.00	1.375	355-8	\$ 302.46	355-8	\$ 302.46
	1.750	355-8	\$ 302.46	355-8	\$ 302.46
	2.000	355-7	\$ 273.71	355-8	\$ 302.46
	2.500	355-7	\$ 273.71	355-8	\$ 302.46
	3.000	355-7	\$ 273.71	355-8	\$ 302.46
	3.500	355-7	\$ 273.71	355-8	\$ 302.46
	4.000	355-7	\$ 273.71	355-8	\$ 302.46
8.00	1.375	355-8	\$ 302.46	355-8	\$ 302.46
	1.750	355-8	\$ 302.46	355-8	\$ 302.46
	2.000	355-8	\$ 302.46	355-8	\$ 302.46
	2.500	355-8	\$ 302.46	355-8	\$ 302.46
	3.000	355-8	\$ 302.46	355-8	\$ 302.46
	3.500	355-8	\$ 302.46	355-8	\$ 302.46
	4.000	355-7	\$ 273.71	355-8	\$ 302.46
	4.500	355-7	\$ 273.71	355-8	\$ 302.46
	5.000	355-7	\$ 273.71	355-8	\$ 302.46
	5.500	355-7	\$ 273.71	355-8	\$ 302.46

Consult Factory for Q, QQ, P, & PP mounting styles.

Switches are sold separately.

Please see Port Options for cylinder switch prep adders.

7 Series Accessories

7LX LDT Probes & Accessories

7LX Standard LDT Probes

Nominal Stroke Length	Balluff Z Style LDT - 3THX, 7LX			
	Analog		Digital	
	0-10VDC	4-20MA	PWM	PWR
3	\$ 910.00	\$ 910.00	\$ 735.28	\$ 833.04
6	\$ 928.72	\$ 928.72	\$ 751.92	\$ 833.04
9	\$ 946.40	\$ 946.40	\$ 769.60	\$ 851.76
12	\$ 965.12	\$ 965.12	\$ 787.28	\$ 871.52
15	\$ 983.84	\$ 983.84	\$ 806.00	\$ 906.88
18	\$ 1,002.56	\$ 1,002.56	\$ 825.76	\$ 913.12
20	\$ 1,021.28	\$ 1,021.28	\$ 845.52	\$ 933.92
24	\$ 1,040.00	\$ 1,040.00	\$ 863.20	\$ 954.72
30	\$ 1,060.80	\$ 1,060.80	\$ 881.92	\$ 983.84
36	\$ 1,096.16	\$ 1,096.16	\$ 918.32	\$ 1,016.08
42	\$ 1,137.76	\$ 1,137.76	\$ 959.92	\$ 1,061.84
48	\$ 1,174.16	\$ 1,174.16	\$ 998.40	\$ 1,102.40
50	\$ 1,215.76	\$ 1,215.76	\$ 1,037.92	\$ 1,107.60

False Stage Protectors

For Z Style LDT Probes. Must be used with G, D, & SP mounting styles. Protector is full bore diameter and shares common tie rods with the cylinder.

Heavy Duty Enclosure

For Z Style LDT Probes. 2.50" and 3.25" Protector is full bore diameter and shares common tie rods with cylinder. 4.00" through 8.00" Protectors have 3.50" square caps and independent tie rods.

Bore	3TH Series	7 Series
2.50	\$ 286.05	\$ 171.66
3.25	\$ 383.17	\$ 227.05
4.00	\$ 425.37	\$ 234.74
5.00	\$ 581.45	\$ 286.56
6.00	\$ 626.28	\$ 332.59
7.00	\$ 846.81	\$ -
8.00	\$ 992.53	\$ 504.53

Bore	Enclosure
2.50	\$ 286.05
3.25	\$ 383.17
4.00	\$ 286.05
5.00	\$ 286.05
6.00	\$ 286.05
7.00	\$ 286.05
8.00	\$ 286.05

Cables and Connectors for LDTs

Cables and Connectors	S32 Connector	S33 Connector	S140 Connector
Connector Only	BKS-S32M-00 \$ 50.96	BKS-S33M-00 \$ 50.96	BKS-S140-00 \$ 84.24
2m Cable w/ connector	BKS-S32M-02 \$ 100.88	BKS-S33M-03 \$ 100.88	BKS-S140-03 \$ 124.80
5m Cable w/ connector	BKS-S32M-05 \$ 110.24	BKS-S33-05 \$ 110.24	BKS-S140-05 \$ 139.36
10m cable w/ connector	BKS-S32M-10 \$ 135.20	BKS-S33-10 \$ 135.20	BKS-S140-10 \$ 175.76

7 Series Accessories

7KX LDT Probes & Accessories

7KX Standard LDT Backpack FeedBack Probes

Nominal Stroke Length	Balluff R Style LDT - 7KX		
	Analog		Digital
	0-10VDC	4-20MA	PWM
6	\$ 547.04	\$ 547.04	\$ 514.80
9	\$ 559.52	\$ 559.52	\$ 527.28
15	\$ 579.28	\$ 579.28	\$ 547.04
18	\$ 591.76	\$ 591.76	\$ 559.52
20	\$ 599.04	\$ 599.04	\$ 566.80
22	\$ 631.28	\$ 631.28	\$ 599.04
26	\$ 670.80	\$ 670.80	\$ 638.56
28	\$ 696.80	\$ 696.80	\$ 663.52
30	\$ 703.04	\$ 703.04	\$ 670.80
32	\$ 715.52	\$ 715.52	\$ 683.28
36	\$ 736.32	\$ 736.32	\$ 703.04
42	\$ 747.76	\$ 747.76	\$ 715.52
50	\$ 761.28	\$ 761.28	\$ 729.04

BackPack Feedback Accessories

7KX,7LX Magnets

BLF Part #	List
BTL5P-5500-2	\$ 66.56
BTL5P-3800-2	\$ 33.28
BTL5F-2814-1S	\$ 66.56
BTL5M-2814-1S	\$ 115.44
BTL5N-2814-1S	\$ 123.76

7KX,7LX Extra Foot Mounts

BTL P-M5-VZ	\$ 14.56
BTL5-FEETNR	\$ 7.28

7KX,7LX Contol Arm Swivels

BTL5-BALLJOINT	\$ 26.00
BTL5-SWIVELEYE	\$ 26.00

7KX,7LX Control Arms

Control Arm Length Up To	BTL5GS08-xxxxA
177mm	\$ 69.68
329mm	\$ 75.92
559mm	\$ 83.20
812mm	\$ 89.44
1066mm	\$ 96.72
1523mm	\$ 101.92
2286mm	\$ 108.16

Cables and Connectors for LDTs

Cables and Connectors	S32 Connector	S33 Connector	S140 Connector
Connector Only	BKS-S32M-00 \$ 50.96	BKS-S33M-00 \$ 50.96	BKS-S140-00 \$ 84.24
2m Cable w/ connector	BKS-S32M-02 \$ 100.88	BKS-S33M-03 \$ 100.88	BKS-S140-03 \$ 124.80
5m Cable w/ connector	BKS-S32M-05 \$ 110.24	BKS-S33-05 \$ 110.24	BKS-S140-05 \$ 139.36
10m cable w/ connector	BKS-S32M-10 \$ 135.20	BKS-S33-10 \$ 135.20	BKS-S140-10 \$ 175.76

7 Series Service Kits

Rod Gland Kits

7L,7K,7KA Rod Gland Kits

Rod	Bore	Polyurethane		Viton		EPR	
0.625	1.50-2.50	RG003530010	\$ 95.80	RG003530011	\$ 127.73	RG003530012	\$ 135.17
1.000	1.50	RG007530020	\$ 132.09	RG007530021	\$ 174.18	RG007530022	\$ 178.13
1.000	2.00-5.00	RG003530020	\$ 111.77	RG003530021	\$ 148.06	RG003530022	\$ 153.74
1.375	2.00	RG007530030	\$ 169.82	RG007530031	\$ 224.98	RG007530032	\$ 229.60
1.375	2.50-8.00	RG003530030	\$ 156.76	RG003530031	\$ 209.01	RG003530032	\$ 213.94
1.750	2.50	RG007530040	\$ 204.66	RG007530041	\$ 271.42	RG007530042	\$ 275.83
1.750	3.25-10.00	RG003530040	\$ 194.50	RG003530041	\$ 258.36	RG003530042	\$ 263.65
2.000	3.25-10.00	RG003530050	\$ 254.00	RG003530051	\$ 335.29	RG003530052	\$ 337.52
2.500	4.00-14.00	RG003530060	\$ 319.31	RG003530061	\$ 420.91	RG003530062	\$ 424.96
3.000	5.00-16.00	RG003530070	\$ 470.26	RG003530071	\$ 619.75	RG003530072	\$ 640.68
3.500	5.00-18.00	RG003530080	\$ 526.87	RG003530081	\$ 696.69	RG003530082	\$ 717.94
4.000	6.00-20.00	RG003530090	\$ 695.24	RG003530091	\$ 918.75	RG003530092	\$ 940.45
4.500	8.00-20.00	RG003530100	\$ 775.06	RG003530101	\$ 1,021.80	RG003530102	\$ 1,065.49
5.000	8.00-20.00	RG003530110	\$ 876.66	RG003530111	\$ 1,156.78	RG003530112	\$ 1,276.01
5.500	8.00-20.00	RG003530120	\$ 1,672.58	RG003530121	\$ 1,352.71	RG003530122	\$ 2,323.47

7L,7K,7KA Rod Gland Kits

Rod	Bore	Buna		Teflon	
0.625	1.50-2.50	RG003530010B	\$ 95.80	RG003530014	\$ 138.21
1.000	1.50	RG007530020B	\$ 132.09	RG007530024	\$ 181.08
1.000	2.00-5.00	RG003530020B	\$ 111.77	RG003530024	\$ 156.69
1.375	2.00	RG007530030B	\$ 169.82	RG007530034	\$ 233.47
1.375	2.50-8.00	RG003530030B	\$ 156.76	RG003530034	\$ 217.82
1.750	2.50	RG007530040B	\$ 204.66	RG007530044	\$ 280.36
1.750	3.25-10.00	RG003530040B	\$ 194.50	RG003530044	\$ 268.17
2.000	3.25-10.00	RG003530050B	\$ 254.00	RG003530054	\$ 342.45
2.500	4.00-14.00	RG003530060B	\$ 319.31	RG003530064	\$ 431.21
3.000	5.00-16.00	RG003530070B	\$ 470.26	RG003530074	\$ 652.13
3.500	5.00-18.00	RG003530080B	\$ 526.87	RG003530084	\$ 730.80
4.000	6.00-20.00	RG003530090B	\$ 695.24	RG003530094	\$ 956.39
4.500	8.00-20.00	RG003530100B	\$ 775.06	RG003530104	\$ 1,085.80
5.000	8.00-20.00	RG003530110B	\$ 876.66	RG003530114	\$ 1,309.62
5.500	8.00-20.00	RG003530120B	\$ 1,672.58	RG003530124	\$ 2,370.92

7 Series Service Kits

Rod Seal Kits

7L, 7K, 7KA Rod Seal Kits

Rod	Bore	Buna		Polyurethane		Viton	
0.625	1.50-2.50	RS003540010B	\$ 60.97	RS003540010	\$ 63.40	RS003540011	\$ 91.45
1.000	1.50	RS007540020B	\$ 69.68	RS007540020	\$ 72.47	RS007540021	\$ 103.05
1.000	2.00-5.00	RS003540020B	\$ 69.68	RS003540020	\$ 72.47	RS003540021	\$ 103.05
1.375	2.00	RS007540030B	\$ 89.99	RS007540030	\$ 93.59	RS007540031	\$ 139.34
1.375	2.50-8.00	RS003540030B	\$ 89.99	RS003540030	\$ 93.59	RS003540031	\$ 139.34
1.750	2.50	RS007540040B	\$ 103.05	RS007540040	\$ 107.18	RS007540041	\$ 166.92
1.750	3.25-10.00	RS003540040B	\$ 103.05	RS003540040	\$ 107.18	RS003540041	\$ 166.92
2.000	3.25-10.00	RS003540050B	\$ 150.95	RS003540050	\$ 156.99	RS003540051	\$ 229.32
2.500	4.00-14.00	RS003540060B	\$ 172.73	RS003540060	\$ 179.64	RS003540061	\$ 272.87
3.000	5.00-16.00	RS003540070B	\$ 191.59	RS003540070	\$ 199.26	RS003540071	\$ 335.28
3.500	5.00-18.00	RS003540080B	\$ 198.84	RS003540080	\$ 206.80	RS003540081	\$ 367.21
4.000	6.00-20.00	RS003540090B	\$ 316.42	RS003540090	\$ 329.07	RS003540091	\$ 537.02
4.500	8.00-20.00	RS003540100B	\$ 343.98	RS003540100	\$ 357.74	RS003540101	\$ 589.27
5.000	8.00-20.00	RS003540110B	\$ 396.24	RS003540110	\$ 412.09	RS003540111	\$ 674.91
5.500	8.00-20.00	RS003540120B	\$ 496.39	RS003540120	\$ 516.24	RS003540121	\$ 821.50

7L, 7K, 7KA Rod Seal Kits

Rod	Bore	EPR		Water-Fitted		Teflon	
0.625	1.50-2.50	RS003540012	\$ 64.94	RS003540010W	\$ 67.53	RS003540014	\$ 97.40
1.000	1.50	RS007540022	\$ 74.21	RS007540020W	\$ 77.19	RS007540024	\$ 109.75
1.000	2.00-5.00	RS003540022	\$ 74.21	RS003540020W	\$ 77.19	RS003540024	\$ 109.75
1.375	2.00	RS007540032	\$ 95.84	RS007540030W	\$ 99.68	RS007540034	\$ 148.40
1.375	2.50-8.00	RS003540032	\$ 95.84	RS003540030W	\$ 99.68	RS003540034	\$ 148.40
1.750	2.50	RS007540042	\$ 109.75	RS007540040W	\$ 114.15	RS007540044	\$ 177.77
1.750	3.25-10.00	RS003540042	\$ 109.75	RS003540040W	\$ 114.15	RS003540044	\$ 177.77
2.000	3.25-10.00	RS003540052	\$ 160.77	RS003540050W	\$ 167.20	RS003540054	\$ 244.23
2.500	4.00-14.00	RS003540062	\$ 183.96	RS003540060W	\$ 191.32	RS003540064	\$ 290.61
3.000	5.00-16.00	RS003540072	\$ 204.05	RS003540070W	\$ 212.22	RS003540074	\$ 357.08
3.500	5.00-18.00	RS003540082	\$ 211.77	RS003540080W	\$ 220.25	RS003540084	\$ 391.08
4.000	6.00-20.00	RS003540092	\$ 336.99	RS003540090W	\$ 350.46	RS003540094	\$ 571.93
4.500	8.00-20.00	RS003540102	\$ 366.34	RS003540100W	\$ 381.00	RS003540104	\$ 627.58
5.000	8.00-20.00	RS003540112	\$ 422.00	RS003540110W	\$ 438.88	RS003540114	\$ 718.78
5.500	8.00-20.00	RS003540122	\$ 528.66	RS003540120W	\$ 549.80	RS003540124	\$ 874.90

7 Series Service Kits

Tube Seal Kits

7L,7LX Block Vee Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS777512000	\$ 27.59	TS777512001	\$ 37.75	TS777512002	\$ 43.94
2.00	TS787512000	\$ 31.93	TS787512001	\$ 40.66	TS787512002	\$ 56.22
2.50	TS797512000	\$ 33.39	TS797512001	\$ 43.55	TS797512002	\$ 63.04
3.25	TS817512000	\$ 37.75	TS817512001	\$ 50.81	TS817512002	\$ 76.80
4.00	TS837512000	\$ 50.79	TS837512001	\$ 65.32	TS837512002	\$ 94.82
5.00	TS847512000	\$ 81.30	TS847512001	\$ 108.86	TS847512002	\$ 127.33
6.00	TS857512000	\$ 108.86	TS857512001	\$ 142.25	TS857512002	\$ 189.19
8.00	TS877512000	\$ 132.09	TS877512001	\$ 174.18	TS877512002	\$ 272.51
10.00	TS8875120L0	\$ 152.33	TS8875120L1	\$ 334.49	TS8875120L2	\$ 371.65
12.00	TS8975120L0	\$ 189.42	TS8975120L1	\$ 413.73	TS8975120L2	\$ 459.69

7L,7LX SCR Piston Tube Seal Kits

Bore	Buna		Viton	
1.50	TS777510000	\$ 8.72	TS777510001	\$ 13.07
2.00	TS787510000	\$ 11.62	TS787510001	\$ 13.07
2.50	TS797510000	\$ 11.62	TS797510001	\$ 13.07
3.25	TS817510000	\$ 13.07	TS817510001	\$ 13.07
4.00	TS837510000	\$ 13.07	TS837510001	\$ 14.52
5.00	TS847510000	\$ 15.98	TS847510001	\$ 20.33
6.00	TS857510000	\$ 30.49	TS857510001	\$ 36.29
8.00	TS877510000	\$ 36.29	TS877510001	\$ 40.66
10.00	TS8875100L0	\$ 54.44	TS8875100L1	\$ 60.48
12.00	TS8975100L0	\$ 90.72	TS8975100L1	\$ 96.76

7K,7KA,7KX Block Vee Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS777512000	\$ 27.59	TS777512001	\$ 37.75	TS777512002	\$ 43.94
2.00	TS787512000	\$ 31.93	TS787512001	\$ 40.66	TS787512002	\$ 56.22
2.50	TS797512000	\$ 33.39	TS797512001	\$ 43.55	TS797512002	\$ 63.04
3.25	TS817512000	\$ 37.75	TS817512001	\$ 50.81	TS817512002	\$ 76.80
4.00	TS837512000	\$ 50.79	TS837512001	\$ 65.32	TS837512002	\$ 94.82
5.00	TS847512000	\$ 81.30	TS847512001	\$ 108.86	TS847512002	\$ 127.33
6.00	TS857512000	\$ 108.86	TS857512001	\$ 142.25	TS857512002	\$ 189.19
8.00	TS877512000	\$ 132.09	TS877512001	\$ 174.18	TS877512002	\$ 272.51
10.00	TS8875120K0	\$ 152.33	TS8875120K1	\$ 334.49		
12.00	TS8975120K0	\$ 189.42	TS8975120K1	\$ 413.73		
14.00	TS9075120K0	\$ 312.18				
16.00	TS9175120K0	\$ 438.45				

AS Series Price Guide

- **Standard Terms and Conditions**
- **AS/ASH – NFPA Aluminum Air & Hydraulic Cylinders**
 - **1.50”-10.00” Single and Double Rod End Cylinders**
- **AS Series Modifications**
 - **Port Options**
 - **Rod Modifications**
 - **Material Options**
 - **Seal Options**
 - **Supports**
 - **Additional Options and Modifications**
- **AS Series Accessories**
 - **Accessories**
 - **1A Conversion Kits**
 - **Switches**
- **AS Series Service Kits**
 - **Rod Gland Kits**
 - **Rod Seal Kits**
 - **Tube Seal Kits**

Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

AS/ASH – NFPA Aluminum Air & Hydraulic

1.50"-10.00" Single and Double Rod End

AS/ASH Single Rod End

Bore	Rod	Per Inch of Stroke	A*B	AA*BB	C	CC	D*G	EB*ER	H*O	J	L*M*N	R*Z
1.50	0.625	\$ 3.73	\$ 148.27	\$ 170.70	\$ 149.52	\$ 178.18	\$ 133.32	\$ 233.00	\$ 114.64	\$ 133.32	\$ 115.88	\$ 130.83
2.00	0.625	\$ 4.99	\$ 159.49	\$ 179.43	\$ 163.23	\$ 186.90	\$ 143.29	\$ 241.72	\$ 122.12	\$ 147.04	\$ 124.61	\$ 139.56
	1.000	\$ 6.25	\$ 176.93	\$ 196.87	\$ 180.66	\$ 203.09	\$ 160.73	\$ 259.16	\$ 139.56	\$ 163.23	\$ 142.04	\$ 158.23
2.50	0.625	\$ 4.99	\$ 179.43	\$ 200.61	\$ 188.14	\$ 205.58	\$ 164.47	\$ 260.40	\$ 142.04	\$ 164.47	\$ 143.29	\$ 159.49
	1.000	\$ 6.25	\$ 191.89	\$ 213.06	\$ 199.36	\$ 216.81	\$ 176.93	\$ 271.62	\$ 153.26	\$ 176.93	\$ 154.50	\$ 170.70
3.25	1.000	\$ 6.25	\$ 242.95	\$ 280.32	\$ 250.43	\$ 269.12	\$ 229.24	\$ 317.71	\$ 198.09	\$ 221.76	\$ 199.34	\$ 229.24
	1.375	\$ 11.21	\$ 276.59	\$ 313.96	\$ 284.05	\$ 302.75	\$ 261.64	\$ 351.34	\$ 231.74	\$ 286.55	\$ 232.98	\$ 261.64
4.00	1.000	\$ 7.48	\$ 260.39	\$ 295.28	\$ 290.29	\$ 277.84	\$ 246.69	\$ 331.41	\$ 211.79	\$ 237.97	\$ 213.05	\$ 246.69
	1.375	\$ 12.47	\$ 299.00	\$ 333.89	\$ 328.91	\$ 316.46	\$ 285.32	\$ 370.04	\$ 250.43	\$ 277.84	\$ 251.66	\$ 285.32

AS/ASH Double Rod End

Bore	Rod	Per Inch of Stroke	B	BB*CC	ER*C	H*O	J	L*M
1.50	0.625	\$ 3.73	\$ 194.38	\$ 196.87	\$ 254.19	\$ 180.66	\$ 236.73	\$ 188.14
2.00	0.625	\$ 4.99	\$ 230.50	\$ 210.57	\$ 291.55	\$ 213.06	\$ 271.62	\$ 219.29
	1.000	\$ 6.25	\$ 317.72	\$ 318.97	\$ 382.50	\$ 294.05	\$ 377.52	\$ 304.02
2.50	0.625	\$ 4.99	\$ 250.44	\$ 254.19	\$ 312.73	\$ 231.76	\$ 292.81	\$ 236.73
	1.000	\$ 7.48	\$ 340.14	\$ 345.12	\$ 424.87	\$ 313.98	\$ 396.22	\$ 323.96
3.25	1.000	\$ 7.48	\$ 311.47	\$ 315.21	\$ 394.95	\$ 284.05	\$ 366.29	\$ 294.03
	1.375	\$ 12.47	\$ 406.15	\$ 411.15	\$ 513.30	\$ 370.04	\$ 479.68	\$ 382.49
4.00	1.000	\$ 11.21	\$ 378.75	\$ 386.23	\$ 462.23	\$ 348.85	\$ 433.58	\$ 358.81
	1.375	\$ 13.72	\$ 493.37	\$ 505.84	\$ 607.99	\$ 456.00	\$ 566.89	\$ 467.21

AS/ASH Single Rod End

Bore	Rod	Per Inch of Stroke	A*B	AA*BB	CC	D*G*J*K	H*O	L*M*N	PP*QQ
5.00	1.000	\$ 9.97	\$ 376.27	\$ 480.93	\$ 543.22	\$ 463.48	\$ 376.27	\$ 340.13	\$ -
	1.375	\$ 12.47	\$ 423.61	\$ 539.47	\$ 613.00	\$ 529.51	\$ 423.61	\$ 394.95	\$ -
6.00	1.375	\$ 13.72	\$ 469.71	\$ 573.12	\$ 637.91	\$ 565.65	\$ 469.71	\$ 436.07	\$ -
	1.750	\$ 14.96	\$ 559.43	\$ 664.08	\$ 741.32	\$ 659.10	\$ 559.43	\$ 509.58	\$ -
8.00	1.375	\$ 16.19	\$ 667.81	\$ -	\$ 908.27	\$ 828.52	\$ 667.81	\$ 649.11	\$ 854.70
	1.750	\$ 18.69	\$ 808.60	\$ -	\$ 1,020.39	\$ 912.01	\$ 808.60	\$ 788.66	\$ 960.59
10.00	1.750	\$ 24.92	\$ -	\$ -	\$ 1,354.58	\$ 1,231.89	\$ 984.64	\$ 955.87	\$ 1,272.15
	2.000	\$ 28.75	\$ -	\$ -	\$ 1,527.08	\$ 1,360.32	\$ 1,201.23	\$ 1,170.56	\$ 1,435.07

AS/ASH Double Rod End

Bore	Rod	Per Inch of Stroke	B	BB	CC	H*O	J*K	L*M	QQ
5.00	1.000	\$ 12.47	\$ 543.22	\$ 625.45	\$ 687.74	\$ 543.22	\$ 608.00	\$ 482.16	\$ -
	1.375	\$ 14.96	\$ 598.05	\$ 712.67	\$ 788.66	\$ 598.05	\$ 696.45	\$ 568.14	\$ -
6.00	1.375	\$ 16.19	\$ 687.74	\$ 789.90	\$ 854.70	\$ 687.74	\$ 783.69	\$ 654.11	\$ -
	1.750	\$ 17.45	\$ 824.79	\$ 929.44	\$ 1,006.70	\$ 824.79	\$ 923.23	\$ 774.96	\$ -
8.00	1.375	\$ 19.94	\$ 995.48	\$ 95.83	\$ 1,233.43	\$ 995.48	\$ 1,152.46	\$ 974.29	\$ 1,177.37
	1.750	\$ 23.67	\$ 1,206.03	\$ 95.83	\$ 1,417.83	\$ 1,206.03	\$ 1,308.20	\$ 1,184.85	\$ 1,355.54
10.00	1.750	\$ 30.68	\$ 104.67	\$ 104.67	\$ 1,854.84	\$ 1,488.75	\$ 1,730.26	\$ 1,456.15	\$ 1,768.58
	2.000	\$ 36.43	\$ 104.67	\$ 104.67	\$ 2,138.51	\$ 1,714.06	\$ 1,969.85	\$ 1,780.09	\$ 2,042.69

NOTE: See Port Options for Cushioning.

AS Series Modifications

Port Options

AS,ASH PORT OPTIONS

Bore	Cushions Per End	Extra Ports and/or Re-located Ports Per End	Air Bleeds Price Per Each	Impact Bumpers Per End
1.50	\$ 21.75	\$ 9.59	\$ 52.34	\$ 11.99
2.00	\$ 21.75	\$ 9.59	\$ 52.34	\$ 11.99
2.50	\$ 21.75	\$ 9.59	\$ 52.34	\$ 11.99
3.25	\$ 26.31	\$ 11.99	\$ 53.57	\$ 17.97
4.00	\$ 26.31	\$ 11.99	\$ 53.57	\$ 17.97
5.00	\$ 37.39	\$ 40.73	\$ 53.57	\$ 20.38
6.00	\$ 49.84	\$ 43.14	\$ 67.29	\$ 28.76
8.00	\$ 66.02	\$ 47.92	\$ 76.00	\$ 32.35
10.00	\$ 110.04	\$ 52.34		

Rod End Modifications

AS/ASH ROD END OPTIONS

Rod	A	Per inch or Fraction Over A	WF	Per inch or Fraction over WF	Flanged Rod End Base
0.625	0.750	\$ 2.40	1.000	\$ 1.20	\$ 38.62
1.000	1.125	\$ 3.59	1.375	\$ 2.40	\$ 38.62
1.375	1.625	\$ 4.80	1.625	\$ 3.59	\$ 38.62
1.750	2.000	\$ 7.19	1.875	\$ 4.80	\$ 48.59
2.000	2.250	\$ 9.69	2.000	\$ 6.05	\$ 51.08

AS/ASH ROD END OPTIONS

Rod	Wrench Flats Per Extra Pair	Steel Rod Stud	SS Rod Stud	Metallic Rod Scraper
0.625	\$ 9.59	\$ 11.21	\$ 84.84	\$ 27.57
1.000	\$ 10.78	\$ 13.72	\$ 89.94	\$ 35.95
1.375	\$ 11.99	\$ 19.94	\$ 142.23	\$ 53.92
1.750	\$ 13.19	\$ 37.39	\$ 191.73	\$ 75.48
2.000	\$ 15.64	\$ 82.24	\$ 218.98	\$ 83.02

AS Series Modifications

Material Options

AS,ASH RODMATERIAL OPTIONS

Rod	17-4 PH Stainless Steel Piston Rod			303 Stainless Steel Piston Rod		
	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base
0.625	\$ 3.73	\$ 7.47	\$ 18.69	\$ 3.59	\$ 4.49	\$ 15.58
1.000	\$ 6.25	\$ 12.48	\$ 28.67	\$ 3.59	\$ 4.49	\$ 22.76
1.375	\$ 11.21	\$ 22.42	\$ 69.77	\$ 9.59	\$ 11.98	\$ 40.73
1.750	\$ 13.72	\$ 27.43	\$ 118.36	\$ 10.78	\$ 13.48	\$ 65.90
2.000	\$ 21.20	\$ 42.38	\$ 200.60	\$ 17.45	\$ 34.89	\$ 158.22

Seal Options

AS,ASH ROD SEAL OPTIONS

Rod	Single Rod End			Double Rod End		
	VITON	EPR	TEFLON	VITON	EPR	TEFLON
0.625	\$ 16.12	\$ 17.74	\$ 20.40	\$ 32.24	\$ 35.47	\$ 40.78
1.000	\$ 17.44	\$ 19.17	\$ 22.06	\$ 34.87	\$ 38.37	\$ 44.11
1.375	\$ 18.53	\$ 20.38	\$ 23.43	\$ 37.05	\$ 40.74	\$ 46.85
1.750	\$ 27.94	\$ 30.73	\$ 35.34	\$ 55.87	\$ 61.46	\$ 70.67
2.000	\$ 28.47	\$ 32.73	\$ 37.65	\$ 56.94	\$ 65.47	\$ 75.30

AS,ASH TUBE SEAL OPTIONS

Bore	VITON	EPR	TEFLON
1.50	\$ 14.93	\$ 16.42	\$ 18.06
2.00	\$ 25.00	\$ 27.50	\$ 30.25
2.50	\$ 31.80	\$ 34.97	\$ 38.47
3.25	\$ 43.48	\$ 47.82	\$ 52.61
4.00	\$ 42.39	\$ 46.63	\$ 51.30
5.00	\$ 104.45	\$ 125.34	\$ 137.87
6.00	\$ 117.08	\$ 140.49	\$ 154.54
8.00	\$ 146.96	\$ 176.35	\$ 193.98
10.00	\$ 152.12	\$ 182.55	\$ 200.81

AS Series Modifications

Supports

AS,ASH INTERNAL STOP

Bore	Rod	Per Inch of Stop Collar	Stop Collar Base	Per Inch of Dual Piston	Dual Piston Base
1.50	0.625	\$ 4.80	\$ 20.38	\$ 7.39	\$ 37.05
2.00	0.625	\$ 6.00	\$ 25.16	\$ 9.22	\$ 45.74
	1.000	\$ 7.19	\$ 27.57	\$ 11.06	\$ 50.11
2.50	0.625	\$ 6.00	\$ 27.57	\$ 9.22	\$ 50.11
	1.000	\$ 7.19	\$ 29.95	\$ 11.06	\$ 54.46
3.25	1.000	\$ 10.78	\$ 35.95	\$ 16.59	\$ 65.35
	1.375	\$ 11.99	\$ 38.33	\$ 18.45	\$ 69.71
4.00	1.000	\$ 10.78	\$ 38.33	\$ 16.59	\$ 69.71
	1.375	\$ 11.99	\$ 43.14	\$ 18.45	\$ 78.42
5.00	1.000	\$ 11.99	\$ 43.14	\$ 18.45	\$ 78.42
	1.375	\$ 14.38	\$ 45.52	\$ 22.13	\$ 82.78
6.00	1.375	\$ 16.78	\$ 61.10	\$ 25.80	\$ 111.08
	1.750	\$ 16.78	\$ 64.70	\$ 25.80	\$ 117.63
8.00	1.375	\$ 19.17	\$ 112.62	\$ 29.51	\$ 204.74
	1.750	\$ 21.57	\$ 123.40	\$ 33.18	\$ 224.35
10.00	1.750	\$ 23.98	\$ 140.77	\$ 36.88	\$ 255.92
	2.000	\$ 26.96	\$ 154.24	\$ 41.48	\$ 280.44

TIE ROD SUPPORT

Bore	Per Tie Rod Support
5.00	\$ 214.65
6.00	\$ 242.20
8.00	\$ 278.08
10.00	\$ 278.08

Additional Options and Modifications

AS,ASH ROD BOOTS

ROD BOOTS		
Rod	Per Inch of Stroke	Base
0.625	\$ 6.25	\$ 166.95
1.000	\$ 6.25	\$ 166.95
1.375	\$ 6.25	\$ 170.69
1.750	\$ 7.48	\$ 185.65
2.000	\$ 7.48	\$ 185.65

AS,AS OPTIONS

TIE ROD EXTENSION			STROKE ADJUST		MAG PISTON
Bore	BB	Per Inch over BB	Base	Per Inch	Magnetic Piston Base
1.50	1.000	\$ 1.20	\$ 211.80	\$ 1.24	\$ 27.57
2.00	1.125	\$ 1.20	\$ 232.98	\$ 2.50	\$ 27.57
2.50	1.125	\$ 1.20	\$ 232.98	\$ 2.50	\$ 27.57
3.25	1.375	\$ 1.20	\$ 241.71	\$ 3.73	\$ 37.14
4.00	1.375	\$ 1.20	\$ 241.71	\$ 3.73	\$ 37.14
5.00	1.813	\$ 1.20	\$ 287.80	\$ 4.99	\$ 51.52
6.00	1.813	\$ 1.20	\$ 287.80	\$ 4.99	\$ 51.52
8.00	2.313	\$ 2.40	\$ 301.52	\$ 4.99	\$ 51.52
10.00	2.688	\$ 2.40			\$ 72.12

AS Series Accessories

Accessories

NFPA Accessories

THREAD SIZE In Inches	ROD CLEVIS			CLEVIS PIN		ROD EYE		BASE PIVOT	
	PART NO.	DIM 'CE'	PRICE	PART NO.	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	517-05	1.50	\$ 29.91	KY8658-1	\$ 9.97	Y8422	\$ 27.42	Y8430	\$ 54.82
.50"-20	521957	1.50	\$ 31.15	KY8658-1	\$ 9.97		\$ -	Y8430	\$ 54.82
.75"-16	517-07-M	2.13	\$ 46.10	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
	517-07	2.38	\$ 49.84	KY8658-2	\$ 11.21	Y8423	\$ 37.39	Y8431	\$ 82.24
1.00"-14	517-10-M	2.94	\$ 58.56	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
	517-10	3.13	\$ 62.30	KY8658-3	\$ 17.45	Y8424	\$ 56.07	Y8432	\$ 100.91
1.25"-12	517-13-M	3.75	\$ 84.73	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
	517-13	4.13	\$ 85.97	KY8658-4	\$ 23.67	Y8425	\$ 89.72	Y8433	\$ 138.30
1.50"-12	517-17	4.50	\$ 117.12	KY8658-5	\$ 33.64	Y8426	\$ 114.63	Y8434	\$ 225.51
1.88"-12	517-20	5.50	\$ 224.27	KY8658-6	\$ 38.62	Y8427	\$ 228.00	Y8435	\$ 308.99
2.25"-12	517-25	6.50	\$ 392.46	KY8658-17	\$ 88.45	Y8428	\$ 372.53	Y8436	\$ 500.85
2.50"-12	517-30-M	6.75	\$ 548.20	KY8658-18	\$ 138.30	Y8429	\$ 464.73	Y8437	\$ 958.10
3.25"-12	517-35-M	7.75	\$ 988.01	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
	517-35	8.50	\$ 1,019.16	KY8658-19	\$ 196.86	905-35	\$ 1,078.97	82276-001	\$ 1,283.28
3.50"-12	516	10.00	\$ 1,161.17	KY8658-20	\$ 271.61	905-35-M	\$ 1,151.23	82277-001	\$ 1,599.73
4.00"-12	517-40	10.00	\$ 1,273.32	KY8658-20	\$ 271.61	905-40	\$ 1,419.09	82277-001	\$ 1,599.73
5.00"-12				KY8658-21	\$ 508.33	Y8566	\$ 2,453.18	82278	\$ 2,223.95

NFPA Accessories

THREAD SIZE In Inches	BASE CLEVIS		JAM NUT		LINEAR ALIGN. CPLR	
	PART NO. TAP HOLES	PRICE	PART NO.	PRICE	PART NO.	PRICE
.44"-20	77500	\$ 85.97	13-720	\$ 2.50	788-437	\$ 76.00
.50"-20	77500	\$ 85.97	13-820	\$ 3.73	788-500	\$ 80.98
.75"-16	77501	\$ 103.41	13-1216	\$ 3.73	788-750	\$ 100.91
	77501	\$ 103.41	13-1216	\$ 3.73	788-750	\$ 100.91
1.00"-14	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
	77502	\$ 150.75	13-1614	\$ 4.99	788-1.000	\$ 120.86
1.25"-12	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
	77503	\$ 188.13	13-2012	\$ 17.45	788-1.250	\$ 193.12
1.50"-12	77504	\$ 292.79	13-2412	\$ 26.16	788-1.500	\$ 383.75
1.88"-12	77505	\$ 752.53	13-3012	\$ 51.08	788-1.875	\$ 631.67
2.25"-12	88770	\$ 907.02	13-3612	\$ 80.98	788-2.250	\$ 1,040.34
2.50"-12	88771	\$ 1,179.88	13-4012	\$ 83.48	788-2.500	\$ 1,315.67
3.25"-12	88772	\$ 1,576.07	13-5212	\$ 843.47		
	88772	\$ 1,576.07	13-5212	\$ 843.47		
3.50"-12	88773	\$ 1,998.43				
4.00"-12	88773	\$ 1,998.43				
5.00"-12	88774	\$ 3,976.92				

AS Series Accessories

Accessories

NFPA Accessories

ROD DIA. IN INCHES	FLANGED ROD COUPLING		FASTENERS			WELD PLATES	
	PART NUMBER	PRICE	PART NUMBER	REQ'D QTY	PRICE EACH	PART NUMBER	PRICE
0.63	902-062	\$ 95.93	89-1024-1.000	4	\$ 0.63	903-062	\$ 76.00
1.00	902-100	\$ 125.83	89-420-1.250	6	\$ 0.68	903-100	\$ 95.93
1.38	902-137	\$ 148.26	89-518-1.500	6	\$ 0.72	903-137	\$ 117.12
1.75	902-175	\$ 201.84	89-518-1.750	8	\$ 0.81	903-175	\$ 154.49
2.00	902-200	\$ 331.42	89-616-2.250	12	\$ 1.45	903-200	\$ 240.46
2.50	902-250	\$ 412.39	89-616-2.500	12	\$ 1.58	903-250	\$ 259.15
3.00	902-300	\$ 546.95	89-813-3.250	12	\$ 3.57	903-300	\$ 279.09
3.50	902-350	\$ 687.74	89-1011-3.500	12	\$ 7.00	903-350	\$ 345.11
4.00	902-400	\$ 844.72	89-1011-3.500	12	\$ 7.00	903-400	\$ 375.11
4.50	902-450	\$ 924.47	89-1011-4.000	12	\$ 7.91	903-450	\$ 409.90
5.00	902-500	\$ 1,249.63	89-1011-4.000	12	\$ 7.91	903-500	\$ 443.55
5.50	902-550	\$ 1,304.47	89-1210-5.000	12	\$ 11.32	903-550	\$ 584.33

1A Conversion Kits

1A B-mount Conversion Kits

Bore	Part	List
1.50	1ABCON-015	\$ 39.84
2.00	1ABCON-020	\$ 50.22
2.50	1ABCON-025	\$ 52.53
3.25	1ABCON-032	\$ 89.16
4.00	1ABCON-040	\$ 93.75

1A J-mount Conversion Kits

Bore	Part	List
1.50	1AJCON-015	\$ 65.70
2.00	1AJCON-020	\$ 66.21
2.50	1AJCON-025	\$ 69.05
3.25	1AJCON-032	\$ 141.81
4.00	1AJCON-040	\$ 147.63

1A L & M-mount Conversion Kits

Bore	Part	List
1.50	1AMCON-015	\$ 48.95
2.00	1AMCON-020	\$ 55.01
2.50	1AMCON-025	\$ 57.31
3.25	1AMCON-032	\$ 59.53
4.00	1AMCON-040	\$ 64.13

AS Series Accessories

Switches

AS, ASH Solid State Switches

Under 1.50" Stroke Cylinders

Bore	Output	.2 m Cable with M8 Connector	5 m Pigtail Cable	.2 m Cable with M8 Connector	5 m Pigtail Cable
1.50" Through 4.00"	PNP NO	BMF305K/HW46-PS-C-2-S49-00.2 890-1-HW46 \$ 92.56	BMF305K/HW46-PS-C-2-PU-05 890-3-HW46 \$ 96.72	BMF103K/HW78-PS-C-2-S49-00.2 890-8-HW78 \$ 92.56	BMF103K/HW78-PS-C-2-PU-03 890-9-HW78 \$ 92.56
	NPN NO	BMF305K/HW46-NS-C-2-S49-00.2 890-2-HW46 \$ 92.56	BMF305K/HW46-NS-C-2-PU-05 890-4-HW46 \$ 96.72		
5.00" Through 8.00"	PNP NO	BMF305K/HW72-PS-C-2-S49-00.2 890-1-HW72 \$ 88.40	BMF305K/HW72-PS-C-2-PU-05 890-3-HW72 \$ 92.56		
	NPN NO	BMF305K/HW72-NS-C-2-S49-00.2 890-2-HW72 \$ 88.40	BMF305K/HW72-NS-C-2-PU-05 890-4-HW72 \$ 92.56		

AS,ASH Reed Switches

Bore	Output	.2 m Cable with M8 Connector	5 m Pigtail Cable
1.50" To 4.00"	NO	BMF305K/HW46-R-PS-F-3-S49-00.2 890-6-HW46 \$ 60.32	BMF305K/HW46-R-PS-F-3-03 890-7-HW46 \$ 60.32
5.00" To 8.00"	NO	BMF305K/HW72-R-PS-F-3-S49-00.2 890-6-HW72 \$ 56.16	BMF305K/HW72-R-PS-F-3-03 890-6-HW72 \$ 56.16

Solid State & Reed Switch Cables

Bore	Output	Straight Mating Connector for .2 m Cable with M8 Connector	90 Degree Mating Connector for .2 m Cable with M8 Connector
All	All	C49ANE00VY-050M 830-2 \$ 28.08	C49BNE00VY-050M 830-3 \$ 28.08

AS Serice Kits

Rod Gland Kits

AS/ASH Rod Gland Kits

Rod	Bore	Buna		Viton		EPR	
0.625	1.50	RG00AS30310	\$ 27.59	RG00AS30311	\$ 63.87	RG00AS30312	\$ 81.61
0.625	2.00-2.50	RG00AS31310	\$ 30.49	RG00AS31311	\$ 68.22	RG00AS31312	\$ 85.95
1.000	2.00-2.50	RG00AS31320	\$ 40.65	RG00AS31321	\$ 81.29	RG00AS31322	\$ 100.46
1.000	3.25-5.00	RG00AS32320	\$ 44.99	RG00AS32321	\$ 75.48	RG00AS32322	\$ 94.65
1.375	3.25-5.00	RG00AS32330	\$ 69.68	RG00AS32331	\$ 139.34	RG00AS32332	\$ 159.71
1.375	6.00-8.00	RG00AS33330	\$ 97.25	RG00AS33331	\$ 171.28	RG00AS33332	\$ 191.64
1.750	6.00-10.00	RG00AS33340	\$ 114.66	RG00AS33341	\$ 209.01	RG00AS33342	\$ 239.74
2.000	10.00	RG00AS33350	\$ 208.48	RG00AS33351	\$ 380.01	RG00AS33352	\$ 418.02

Rod Seal Kits

AS/ASH Rod Seal Kits

Rod	Bore	Buna		Viton		EPR	
0.625	1.50	RS00AS40310	\$ 8.71	RS00AS40311	\$ 43.54	RS00AS40312	\$ 61.27
0.625	2.00-2.50	RS00AS41310	\$ 8.71	RS00AS41311	\$ 43.54	RS00AS41312	\$ 61.27
1.000	2.00-2.50	RS00AS41320	\$ 8.71	RS00AS41321	\$ 44.99	RS00AS41322	\$ 64.17
1.000	3.25-5.00	RS00AS42320	\$ 14.51	RS00AS42321	\$ 49.35	RS00AS42322	\$ 68.52
1.375	3.25-5.00	RS00AS42330	\$ 21.78	RS00AS42331	\$ 76.93	RS00AS42332	\$ 97.29
1.375	6.00-8.00	RS00AS43330	\$ 39.20	RS00AS43331	\$ 81.29	RS00AS43332	\$ 101.65
1.750	6.00-10.00	RS00AS43340	\$ 46.45	RS00AS43341	\$ 95.80	RS00AS43342	\$ 126.53
2.000	10.00	RS00AS43350	\$ 77.81	RS00AS43351	\$ 162.55	RS00AS43352	\$ 202.84

Tube Seal Kits

AS/ASH Block Vee Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS77AS12000	\$ 8.71	TS77AS12001	\$ 26.13	TS77AS12002	\$ 28.75
2.00	TS78AS12000	\$ 8.71	TS78AS12001	\$ 36.29	TS78AS12002	\$ 39.92
2.50	TS79AS12000	\$ 18.88	TS79AS12001	\$ 39.20	TS79AS12002	\$ 53.84
3.25	TS81AS12000	\$ 20.33	TS81AS12001	\$ 44.99	TS81AS12002	\$ 68.14
4.00	TS83AS12000	\$ 23.23	TS83AS12001	\$ 58.07	TS83AS12002	\$ 69.86
5.00	TS84AS12000	\$ 50.79	TS84AS12001	\$ 101.61	TS84AS12002	\$ 176.13
6.00	TS85AS12000	\$ 74.02	TS85AS12001	\$ 134.98	TS85AS12002	\$ 214.52
8.00	TS87AS12000	\$ 100.16	TS87AS12001	\$ 165.47	TS87AS12002	\$ 276.50

101 Series Price Guide

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Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

101 – Roundline Light Duty Air & Hydraulic

1.50"-8.00" Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications

101 LIGHT DUTY SINGLE ROD END

Bore	Rod	Per Inch of Stroke	A*B	C*D*G	E	F	TN
1.50	0.750	\$ 7.61	\$ 280.64	\$ 304.77	\$ 427.94	\$ 248.88	\$ 373.33
	1.000	\$ 8.90	\$ 336.51	\$ 365.72	\$ 513.02	\$ 298.41	\$ 422.85
2.00	0.750	\$ 10.17	\$ 330.14	\$ 359.37	\$ 477.46	\$ 298.41	\$ 422.85
	1.000	\$ 11.43	\$ 363.18	\$ 394.92	\$ 525.72	\$ 328.89	\$ 453.33
	1.250	\$ 12.70	\$ 396.20	\$ 431.75	\$ 572.70	\$ 358.10	\$ 482.56
2.50	1.000	\$ 11.43	\$ 379.68	\$ 410.16	\$ 534.60	\$ 347.94	\$ 495.25
	1.250	\$ 12.70	\$ 417.78	\$ 450.79	\$ 587.94	\$ 382.21	\$ 529.52
	1.500	\$ 13.98	\$ 455.87	\$ 492.70	\$ 641.27	\$ 417.78	\$ 565.09
3.00	1.000	\$ 12.70	\$ 459.69	\$ 497.80	\$ 633.66	\$ 415.25	\$ 562.56
	1.250	\$ 13.98	\$ 505.41	\$ 547.32	\$ 697.16	\$ 457.15	\$ 604.46
	1.750	\$ 15.25	\$ 551.12	\$ 596.85	\$ 760.65	\$ 497.80	\$ 645.11
3.50	1.250	\$ 13.98	\$ 675.58	\$ 720.01	\$ 792.41	\$ 628.59	\$ 800.01
	1.750	\$ 15.25	\$ 742.87	\$ 792.41	\$ 871.13	\$ 692.07	\$ 863.51
	2.250	\$ 16.51	\$ 810.17	\$ 863.52	\$ 951.14	\$ 754.30	\$ 925.72
4.00	1.250	\$ 15.25	\$ 731.45	\$ 777.17	\$ 905.41	\$ 679.38	\$ 850.80
	1.750	\$ 16.51	\$ 805.10	\$ 854.62	\$ 995.57	\$ 747.94	\$ 919.37
	2.500	\$ 17.78	\$ 877.48	\$ 932.08	\$ 1,087.01	\$ 815.25	\$ 986.67
5.00	1.500	\$ 17.78	\$ 1,043.83	\$ 1,047.63	\$ 1,154.31	\$ 956.20	\$ 1,146.68
	2.250	\$ 19.06	\$ 1,147.96	\$ 1,153.04	\$ 1,269.87	\$ 1,051.45	\$ 1,241.92
	3.500	\$ 21.59	\$ 1,252.09	\$ 1,257.17	\$ 1,385.42	\$ 1,147.96	\$ 1,338.43
6.00	1.750	\$ 21.59	\$ 1,213.99	\$ 1,219.07	\$ 1,264.79	\$ 1,022.25	\$ 1,229.23
	2.500	\$ 24.14	\$ 1,335.90	\$ 1,340.98	\$ 1,391.77	\$ 1,125.10	\$ 1,332.10
	4.000	\$ 25.41	\$ 1,456.53	\$ 1,462.88	\$ 1,517.48	\$ 1,226.69	\$ 1,433.69
8.00	2.250	\$ 31.75	\$ 1,946.70	\$ 2,001.31	\$ 2,048.29	\$ 1,644.47	\$ 1,875.60
	3.500	\$ 35.55	\$ 2,141.00	\$ 2,201.94	\$ 2,252.75	\$ 1,809.56	\$ 2,040.68
	5.250	\$ 38.10	\$ 2,336.55	\$ 2,401.31	\$ 2,458.45	\$ 1,973.38	\$ 2,204.49

NOTE: See Port Options for Cushioning.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

101 – Roundline Light Duty Air & Hydraulic

1.50”-8.00” Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.

2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.

3. Multiply the number of cushions (0,1, or 2) by the dollar amount in line with the bore and rod combination.

4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications

101 LIGHT DUTY DOUBLE ROD END

Bore	Rod	Per Inch of Stroke	B	C	E	F	TN
1.50	0.750	\$ 10.17	\$ 462.21	\$ 487.62	\$ 610.79	\$ 431.75	\$ 556.20
	1.000	\$ 12.70	\$ 554.92	\$ 585.40	\$ 732.69	\$ 518.10	\$ 642.55
2.00	0.750	\$ 11.43	\$ 524.44	\$ 554.92	\$ 673.02	\$ 492.70	\$ 617.15
	1.000	\$ 12.70	\$ 576.51	\$ 610.79	\$ 740.33	\$ 542.22	\$ 666.67
	1.250	\$ 13.98	\$ 629.85	\$ 665.41	\$ 807.64	\$ 591.75	\$ 716.21
2.50	1.000	\$ 13.98	\$ 594.29	\$ 626.03	\$ 750.48	\$ 562.54	\$ 709.85
	1.250	\$ 15.25	\$ 653.98	\$ 688.26	\$ 825.40	\$ 618.41	\$ 765.72
	1.500	\$ 16.51	\$ 713.65	\$ 751.75	\$ 900.31	\$ 675.57	\$ 822.88
3.00	1.000	\$ 15.25	\$ 694.62	\$ 731.45	\$ 868.59	\$ 650.18	\$ 797.49
	1.250	\$ 16.51	\$ 764.46	\$ 805.10	\$ 954.94	\$ 714.94	\$ 862.25
	1.750	\$ 17.78	\$ 833.03	\$ 877.48	\$ 1,042.55	\$ 779.69	\$ 927.00
3.50	1.250	\$ 17.78	\$ 933.35	\$ 977.79	\$ 1,050.18	\$ 887.64	\$ 1,059.06
	1.750	\$ 19.06	\$ 1,027.31	\$ 1,075.57	\$ 1,155.57	\$ 976.54	\$ 1,147.96
	2.250	\$ 21.59	\$ 1,120.02	\$ 1,173.36	\$ 1,259.70	\$ 1,065.42	\$ 1,236.84
4.00	1.250	\$ 19.06	\$ 1,074.31	\$ 1,121.30	\$ 1,248.28	\$ 1,023.50	\$ 1,194.92
	1.750	\$ 21.59	\$ 1,182.24	\$ 1,233.04	\$ 1,372.73	\$ 1,126.37	\$ 1,297.79
	2.500	\$ 22.86	\$ 1,288.92	\$ 1,346.05	\$ 1,498.44	\$ 1,227.96	\$ 1,399.38
5.00	1.500	\$ 21.59	\$ 1,398.12	\$ 1,401.93	\$ 1,508.60	\$ 1,310.51	\$ 1,500.98
	2.250	\$ 24.14	\$ 1,537.81	\$ 1,541.60	\$ 1,659.71	\$ 1,441.29	\$ 1,631.77
	3.500	\$ 25.41	\$ 1,677.49	\$ 1,682.57	\$ 1,810.82	\$ 1,572.08	\$ 1,762.56
6.00	1.750	\$ 26.67	\$ 1,583.52	\$ 1,588.59	\$ 1,635.59	\$ 1,393.04	\$ 1,600.02
	2.500	\$ 29.21	\$ 1,742.25	\$ 1,747.33	\$ 1,799.39	\$ 1,532.72	\$ 1,739.71
	4.000	\$ 31.75	\$ 1,899.72	\$ 1,906.07	\$ 1,963.20	\$ 1,671.14	\$ 1,878.13
8.00	2.250	\$ 39.37	\$ 2,335.27	\$ 2,389.89	\$ 2,436.87	\$ 2,033.05	\$ 2,264.17
	3.500	\$ 43.18	\$ 2,568.93	\$ 2,628.62	\$ 2,680.68	\$ 2,236.23	\$ 2,467.35
	5.250	\$ 46.99	\$ 2,802.58	\$ 2,867.35	\$ 2,924.49	\$ 2,439.41	\$ 2,670.52

NOTE: See Port Options for Cushioning.

For stroke lengths greater than 120.00" please contact the Quincy Ortman factory sales staff.

101 – Roundline Heavy Duty Air & Hydraulic

1.50”-8.00” Single Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications

101 HEAVY DUTY SINGLE ROD END

Bore	Rod	Per Inch of Stroke	A*B	C*D*G	E	F
1.50	0.750	\$ 7.61	\$ 497.79	\$ 528.26	\$ 609.53	\$ 452.07
	1.000	\$ 11.43	\$ 596.83	\$ 634.93	\$ 731.44	\$ 542.22
2.00	0.750	\$ 10.17	\$ 528.26	\$ 571.43	\$ 645.09	\$ 481.27
	1.000	\$ 11.43	\$ 581.59	\$ 628.58	\$ 709.85	\$ 528.26
	1.250	\$ 13.98	\$ 640.00	\$ 690.81	\$ 780.96	\$ 581.59
2.50	1.000	\$ 11.43	\$ 608.26	\$ 641.27	\$ 704.76	\$ 540.95
	1.250	\$ 12.70	\$ 669.21	\$ 706.04	\$ 774.60	\$ 595.56
	1.500	\$ 15.25	\$ 736.52	\$ 775.88	\$ 852.07	\$ 655.24
3.00	1.000	\$ 12.70	\$ 704.77	\$ 744.14	\$ 830.49	\$ 640.01
	1.250	\$ 15.25	\$ 774.62	\$ 819.06	\$ 914.31	\$ 703.51
	1.750	\$ 17.78	\$ 852.08	\$ 900.33	\$ 1,005.73	\$ 774.62
3.50	1.250	\$ 16.51	\$ 853.35	\$ 893.99	\$ 1,024.79	\$ 779.69
	1.750	\$ 20.33	\$ 938.43	\$ 984.14	\$ 1,127.64	\$ 858.43
	2.250	\$ 24.14	\$ 1,032.39	\$ 1,081.92	\$ 1,239.39	\$ 943.50
4.00	1.250	\$ 16.51	\$ 994.31	\$ 1,038.74	\$ 1,173.36	\$ 880.01
	1.750	\$ 20.33	\$ 1,093.37	\$ 1,141.61	\$ 1,290.18	\$ 968.91
	2.500	\$ 24.14	\$ 1,203.84	\$ 1,255.90	\$ 1,419.70	\$ 1,065.42
5.00	1.500	\$ 20.33	\$ 1,247.00	\$ 1,339.70	\$ 1,451.45	\$ 1,055.25
	2.250	\$ 24.14	\$ 1,371.45	\$ 1,473.04	\$ 1,597.48	\$ 1,160.65
	3.500	\$ 29.21	\$ 1,508.60	\$ 1,620.35	\$ 1,756.21	\$ 1,276.22
6.00	1.750	\$ 22.86	\$ 1,626.70	\$ 1,738.45	\$ 1,787.97	\$ 1,437.49
	2.500	\$ 27.94	\$ 1,789.24	\$ 1,912.41	\$ 1,967.02	\$ 1,582.24
	4.000	\$ 33.02	\$ 1,968.28	\$ 2,104.17	\$ 2,163.85	\$ 1,739.71
8.00	2.250	\$ 38.10	\$ 2,153.69	\$ 2,226.07	\$ 2,438.13	\$ 1,897.17
	3.500	\$ 45.73	\$ 2,369.56	\$ 2,449.56	\$ 2,681.95	\$ 2,086.38
	5.250	\$ 55.89	\$ 2,605.74	\$ 2,693.38	\$ 2,949.90	\$ 2,294.64

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

101 – Roundline Heavy Duty Air & Hydraulic

1.50”-8.00” Double Rod End

How to Price:

1. Find the base price, by examining the bore and rod combination and the mounting style.
2. Calculate the stroke price by multiplying the stroke by the dollar amount in line with the bore and rod combination.
3. Multiply the number of cushions (0,1, or2) by the dollar amount in line with the bore and rod combination.
4. Add the amounts from steps 1 thru 3 for the base cylinder List price.*

* Additional charges may apply for cylinder modifications.

101 HEAVY DUTY DOUBLE ROD END

Bore	Rod	Per Inch of Stroke	B	C	E	F
1.50	0.750	\$ 11.43	\$ 692.06	\$ 722.54	\$ 805.09	\$ 646.34
	1.000	\$ 16.51	\$ 900.31	\$ 939.70	\$ 1,046.37	\$ 840.64
2.00	0.750	\$ 12.70	\$ 755.57	\$ 796.19	\$ 872.39	\$ 707.30
	1.000	\$ 15.25	\$ 868.58	\$ 915.56	\$ 1,003.19	\$ 813.98
	1.250	\$ 19.06	\$ 999.37	\$ 1,053.97	\$ 1,153.03	\$ 935.88
2.50	1.000	\$ 13.98	\$ 846.99	\$ 877.47	\$ 943.49	\$ 778.41
	1.250	\$ 17.78	\$ 973.97	\$ 1,009.54	\$ 1,085.72	\$ 895.24
	1.500	\$ 21.59	\$ 1,121.28	\$ 1,160.64	\$ 1,248.27	\$ 1,029.85
3.00	1.000	\$ 16.51	\$ 960.02	\$ 995.57	\$ 1,087.01	\$ 895.25
	1.250	\$ 20.33	\$ 1,103.52	\$ 1,145.41	\$ 1,249.55	\$ 1,029.86
	1.750	\$ 25.41	\$ 1,269.87	\$ 1,316.86	\$ 1,436.21	\$ 1,184.79
3.50	1.250	\$ 19.06	\$ 1,132.72	\$ 1,170.81	\$ 1,306.69	\$ 1,061.61
	1.750	\$ 24.14	\$ 1,302.87	\$ 1,346.05	\$ 1,502.25	\$ 1,220.35
	2.250	\$ 30.49	\$ 1,498.44	\$ 1,547.96	\$ 1,727.01	\$ 1,404.46
4.00	1.250	\$ 20.33	\$ 1,301.62	\$ 1,339.70	\$ 1,480.66	\$ 1,189.87
	1.750	\$ 25.41	\$ 1,497.17	\$ 1,540.35	\$ 1,702.89	\$ 1,367.64
	2.500	\$ 31.75	\$ 1,721.93	\$ 1,771.46	\$ 1,958.14	\$ 1,573.35
5.00	1.500	\$ 24.14	\$ 1,606.38	\$ 1,687.65	\$ 1,813.37	\$ 1,414.62
	2.250	\$ 30.49	\$ 1,847.65	\$ 1,941.62	\$ 2,085.12	\$ 1,626.70
	3.500	\$ 38.10	\$ 2,125.76	\$ 2,232.42	\$ 2,397.49	\$ 1,870.51
6.00	1.750	\$ 30.49	\$ 2,107.97	\$ 2,203.21	\$ 2,270.51	\$ 1,920.03
	2.500	\$ 38.10	\$ 2,424.17	\$ 2,533.37	\$ 2,610.83	\$ 2,208.28
	4.000	\$ 46.99	\$ 2,788.61	\$ 2,913.07	\$ 3,001.94	\$ 2,539.72
8.00	2.250	\$ 46.99	\$ 2,787.34	\$ 2,927.03	\$ 3,073.06	\$ 2,529.56
	3.500	\$ 58.42	\$ 3,205.13	\$ 3,366.40	\$ 3,532.76	\$ 2,909.24
	5.250	\$ 72.38	\$ 3,685.14	\$ 3,870.53	\$ 4,063.56	\$ 3,346.08

NOTE: See Port Options for Cushioning.
 For stroke lengths greater than 120.00” please contact the Quincy Ortman factory sales staff.

101 Series Modifications

Port Options

101 PORT OPTIONS

Bore	Cushions Per End	Extra Ports and/or Re-located Ports per end
1.50	\$ 85.08	\$ 33.64
2.00	\$ 111.76	\$ 33.64
2.50	\$ 142.24	\$ 33.64
3.00	\$ 142.24	\$ 42.36
3.50	\$ 167.63	\$ 42.36
4.00	\$ 167.63	\$ 42.36
5.00	\$ 179.06	\$ 44.86
6.00	\$ 190.48	\$ 49.84
8.00	\$ 237.48	\$ 52.34

Rod End Modifications

101K,101L ROD END OPTIONS

Rod	Per inch or Fraction Over O/N	C	Per inch or Fraction over C	Wrench Flats Per Extra Pair
0.750	\$ 3.82	0.750	\$ 2.54	\$ 11.43
1.000	\$ 5.09	1.000	\$ 2.54	\$ 11.43
1.250	\$ 5.09	1.250	\$ 3.82	\$ 12.70
1.500	\$ 6.35	1.500	\$ 5.09	\$ 13.98
1.750	\$ 7.61	1.750	\$ 6.35	\$ 15.25
2.250	\$ 12.70	2.250	\$ 10.17	\$ 19.06
2.500	\$ 14.30	2.500	\$ 11.43	\$ 21.44
3.500	\$ 14.30	3.500	\$ 11.43	\$ 21.44
4.000	\$ 14.30	4.000	\$ 11.43	\$ 21.44
5.250	\$ 15.86	5.250	\$ 12.70	\$ 23.82

Material Options

101K*101L ROD MATERIAL OPTIONS

17-4 PH Stainless Steel Piston Rod				303 Stainless Steel Piston Rod			
Rod	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	
0.750	\$ 2.88	\$ 5.77	\$ 37.54	\$ 2.54	\$ 5.07	\$ 33.02	
1.000	\$ 4.34	\$ 8.66	\$ 51.97	\$ 3.82	\$ 7.63	\$ 45.73	
1.250	\$ 8.65	\$ 17.29	\$ 88.04	\$ 7.61	\$ 15.22	\$ 77.47	
1.500	\$ 11.55	\$ 23.08	\$ 131.32	\$ 10.17	\$ 20.31	\$ 115.56	
1.750	\$ 13.00	\$ 25.98	\$ 177.50	\$ 11.43	\$ 22.87	\$ 156.20	
2.250	\$ 20.21	\$ 40.41	\$ 383.85	\$ 17.78	\$ 35.55	\$ 337.79	
2.500	\$ 42.48	\$ 84.96	\$ 540.84	\$ 37.39	\$ 74.77	\$ 475.94	
3.500	\$ 62.30	\$ 124.59	\$ 720.65	\$ 54.82	\$ 109.64	\$ 634.16	
4.000	\$ 94.88	\$ 189.73	\$ 1,200.61	\$ 83.48	\$ 166.97	\$ 1,056.54	
5.250	\$ 124.60	\$ 249.19	\$ 1,776.84	\$ 109.65	\$ 219.29	\$ 1,563.62	

101K*101L TUBE MATERIAL OPTIONS

Bore	TYPE I CHROME		TYPE II CHROME	
	List Price		List Price	
	Base	Per Inch	Base	Per Inch
1.50	\$ 11.84	\$ 5.39	\$ 17.75	\$ 8.09
2.00	\$ 13.14	\$ 5.99	\$ 19.98	\$ 9.10
2.50	\$ 17.36	\$ 7.49	\$ 26.39	\$ 11.38
3.00	\$ 22.44	\$ 8.98	\$ 34.11	\$ 13.65
3.50	\$ 29.43	\$ 10.48	\$ 44.73	\$ 15.92
4.00	\$ 34.47	\$ 11.97	\$ 52.39	\$ 18.19
5.00	\$ 48.20	\$ 14.88	\$ 73.66	\$ 22.74
6.00	\$ 69.54	\$ 17.95	\$ 105.70	\$ 27.28
8.00	\$ 107.70	\$ 23.94	\$ 163.70	\$ 36.38

101 Series Modifications

Seal Options

101K,101L ROD SEAL OPTIONS

Rod	Single Rod End			Double Rod End		
	VITON	EPR	TEFLON	VITON	EPR	TEFLON
0.750	\$ 8.97	\$ 9.88	\$ 11.36	\$ 17.95	\$ 19.74	\$ 22.71
1.000	\$ 12.65	\$ 13.90	\$ 15.99	\$ 25.28	\$ 27.80	\$ 31.97
1.250	\$ 14.01	\$ 15.40	\$ 17.72	\$ 28.00	\$ 30.80	\$ 35.43
1.500	\$ 20.50	\$ 22.55	\$ 25.94	\$ 41.00	\$ 45.10	\$ 51.86
1.750	\$ 22.08	\$ 25.39	\$ 29.20	\$ 44.15	\$ 50.77	\$ 58.40
2.250	\$ 23.99	\$ 27.59	\$ 31.72	\$ 47.96	\$ 55.15	\$ 63.43
2.500	\$ 33.47	\$ 38.48	\$ 44.26	\$ 66.93	\$ 76.96	\$ 88.51
3.500	\$ 38.48	\$ 44.26	\$ 50.89	\$ 76.96	\$ 88.51	\$ 101.78
4.000	\$ 44.26	\$ 53.11	\$ 61.07	\$ 88.51	\$ 106.21	\$ 122.13
5.250	\$ 50.89	\$ 63.62	\$ 73.15	\$ 101.78	\$ 127.22	\$ 146.29

101K,101L TUBE SEAL OPTIONS

Bore	VITON w/SCR**	VITON	EPR	TEFLON
1.50	\$ 12.93	\$ 15.12	\$ 16.63	\$ 18.29
2.00	\$ 14.62	\$ 18.53	\$ 20.38	\$ 22.41
2.50	\$ 17.34	\$ 17.99	\$ 19.78	\$ 21.77
3.00	\$ 21.83	\$ 28.58	\$ 31.44	\$ 34.57
3.50	\$ 22.51	\$ 34.14	\$ 37.56	\$ 41.31
4.00	\$ 24.52	\$ 41.50	\$ 39.26	\$ 43.19
5.00	\$ 32.60	\$ 54.85	\$ 47.72	\$ 52.50
6.00	\$ 52.84	\$ 66.38	\$ 79.66	\$ 87.61
8.00	\$ 74.10	\$ 120.03	\$ 144.05	\$ 158.45

Supports

101K,101L LIGHT DUTY INTERNAL STOP

Bore	Rod	Per Inch of Stop Collar	Stop Collar Base	Per Inch of Dual Piston	Dual Piston Base
1.50	0.750	\$ 16.51	\$ 85.08	\$ 36.67	\$ 212.70
	1.000	\$ 18.34	\$ 94.52	\$ 40.76	\$ 236.31
2.00	0.750	\$ 17.78	\$ 86.36	\$ 39.52	\$ 215.88
	1.000	\$ 19.75	\$ 95.94	\$ 43.88	\$ 239.85
	1.250	\$ 21.94	\$ 106.60	\$ 48.76	\$ 266.49
2.50	1.000	\$ 20.33	\$ 91.42	\$ 45.17	\$ 228.55
	1.250	\$ 22.59	\$ 101.58	\$ 50.19	\$ 253.95
	1.500	\$ 25.11	\$ 112.87	\$ 55.78	\$ 282.17
3.00	1.000	\$ 21.59	\$ 104.14	\$ 47.97	\$ 260.34
	1.250	\$ 24.00	\$ 115.72	\$ 53.32	\$ 289.29
	1.750	\$ 26.66	\$ 128.57	\$ 59.25	\$ 321.43
3.50	1.250	\$ 27.94	\$ 119.38	\$ 62.07	\$ 298.45
	1.750	\$ 31.04	\$ 132.65	\$ 68.97	\$ 331.62
	2.250	\$ 34.49	\$ 147.39	\$ 76.63	\$ 368.48
4.00	1.250	\$ 34.29	\$ 127.00	\$ 76.18	\$ 317.48
	1.750	\$ 38.10	\$ 141.11	\$ 84.65	\$ 352.75
	2.500	\$ 42.33	\$ 156.77	\$ 94.06	\$ 391.92
5.00	1.500	\$ 43.18	\$ 161.27	\$ 95.94	\$ 403.17
	2.250	\$ 47.97	\$ 179.19	\$ 106.60	\$ 447.98
	3.500	\$ 53.30	\$ 199.11	\$ 118.44	\$ 497.76
6.00	1.750	\$ 57.14	\$ 204.45	\$ 126.98	\$ 511.14
	2.500	\$ 63.49	\$ 227.17	\$ 141.10	\$ 567.93
	4.000	\$ 70.55	\$ 252.42	\$ 156.76	\$ 631.04
8.00	2.250	\$ 82.55	\$ 265.40	\$ 183.44	\$ 663.51
	3.500	\$ 91.72	\$ 294.89	\$ 203.82	\$ 737.22
	5.250	\$ 101.91	\$ 327.65	\$ 226.48	\$ 819.13

101K,101L HEAVY DUTY INTERNAL STOP

Bore	Rod	Per Inch of Stop Collar	Stop Collar Base	Per Inch of Dual Piston	Dual Piston Base
1.50	0.750	\$ 17.78	\$ 85.08	\$ 39.52	\$ 212.70
	1.000	\$ 19.75	\$ 94.52	\$ 43.88	\$ 236.31
2.00	0.750	\$ 19.06	\$ 86.36	\$ 42.34	\$ 215.88
	1.000	\$ 21.17	\$ 95.94	\$ 47.05	\$ 239.85
	1.250	\$ 23.52	\$ 106.60	\$ 52.26	\$ 266.49
2.50	1.000	\$ 21.59	\$ 91.42	\$ 47.97	\$ 228.55
	1.250	\$ 24.00	\$ 101.58	\$ 53.32	\$ 253.95
	1.500	\$ 26.66	\$ 112.87	\$ 59.25	\$ 282.17
3.00	1.000	\$ 22.86	\$ 104.14	\$ 50.77	\$ 260.34
	1.250	\$ 25.39	\$ 115.72	\$ 56.42	\$ 289.29
	1.750	\$ 28.22	\$ 128.57	\$ 62.69	\$ 321.43
3.50	1.250	\$ 30.49	\$ 119.38	\$ 67.75	\$ 298.45
	1.750	\$ 33.87	\$ 132.65	\$ 75.28	\$ 331.62
	2.250	\$ 37.64	\$ 147.39	\$ 83.64	\$ 368.48
4.00	1.250	\$ 34.29	\$ 127.00	\$ 76.18	\$ 317.48
	1.750	\$ 38.10	\$ 141.11	\$ 84.65	\$ 352.75
	2.500	\$ 42.33	\$ 156.77	\$ 94.06	\$ 391.92
5.00	1.500	\$ 44.44	\$ 161.27	\$ 98.76	\$ 403.17
	2.250	\$ 49.38	\$ 179.19	\$ 109.73	\$ 447.98
	3.500	\$ 54.86	\$ 199.11	\$ 121.92	\$ 497.76
6.00	1.750	\$ 72.38	\$ 204.45	\$ 160.85	\$ 511.14
	2.500	\$ 80.42	\$ 227.17	\$ 178.72	\$ 567.93
	4.000	\$ 89.37	\$ 252.42	\$ 198.58	\$ 631.04
8.00	2.250	\$ 88.90	\$ 265.40	\$ 197.55	\$ 663.51
	3.500	\$ 98.78	\$ 294.89	\$ 219.51	\$ 737.22
	5.250	\$ 109.75	\$ 327.65	\$ 243.90	\$ 819.13

101 Series Modifications

Additional Options and Modifications

Rod	Per Inch of Stroke	Base
0.750	\$ 6.25	\$ 166.95
1.000	\$ 6.25	\$ 166.95
1.250	\$ 6.25	\$ 170.69
1.500	\$ 7.48	\$ 185.65
1.750	\$ 7.48	\$ 185.65
2.250	\$ 7.48	\$ 193.12
2.500	\$ 7.48	\$ 193.12
3.500	\$ 9.97	\$ 196.86
4.000	\$ 12.47	\$ 241.71
5.250	\$ 12.47	\$ 271.61

Bore	101K		101L	
	Base	Per Inch	Base	Per Inch
1.50	\$ 211.80	\$ 1.24	\$ 211.80	\$ 1.24
2.00	\$ 232.98	\$ 2.50	\$ 232.98	\$ 2.50
2.50	\$ 241.71	\$ 3.73	\$ 241.71	\$ 3.73
3.00	\$ 241.71	\$ 3.73	\$ 241.71	\$ 3.73
3.50	\$ 287.80	\$ 4.99	\$ 287.80	\$ 4.99
4.00	\$ 287.80	\$ 4.99	\$ 287.80	\$ 4.99
5.00	\$ 301.52	\$ 7.48		
6.00	\$ 388.73	\$ 11.21		
8.00	\$ 447.27	\$ 13.72		

Bore	Over Tube Construction		
	Light Duty Base	Heavy Duty Base	Pinned Tube Base
1.50	\$ 300.96	\$ 314.94	\$ 86.36
2.00	\$ 307.31	\$ 316.20	\$ 86.36
2.50	\$ 309.86	\$ 333.98	\$ 86.36
3.00	\$ 320.01	\$ 337.79	\$ 86.36
3.50	\$ 322.55	\$ 341.60	\$ 90.17
4.00	\$ 354.29	\$ 374.62	\$ 90.17
5.00	\$ 389.86	\$ 411.45	\$ 93.97
6.00	\$ 427.94	\$ 458.43	\$ 102.85
8.00	\$ 535.88	\$ 572.71	\$ 102.85

101 Series Accessories

Accessories

101K/L Accessories

Bore	Thread	Rod Eye Part Number	Price	Rod Clevis Part Number	Price	Clevis Pin Part Number	Price*	Linear Alignment Coupler	Price
1.50&2.00	.50-20	Y5679	\$ 46.99	Y5012	\$ 53.34	K52559-1	\$ 10.17	788-.500	\$ 82.55
2.50&3.00	.75-16	Y5680	\$ 62.23	Y5013	\$ 81.26	K52561-1	\$ 11.43	788-.750	\$ 102.85
3.50&4.00	.88-14	Y5681	\$ 120.65	Y5014	\$ 121.90	K52563-1	\$ 17.78	788-.875	\$ 118.84
5.00	1-14	Y5682	\$ 248.90	571576	\$ 199.37	K52564-1	\$ 21.59	788-1.000	\$ 123.18
6.00	1.25-12	Y5683	\$ 471.12	548021	\$ 297.15	K52565-1	\$ 33.02	788-1.250	\$ 196.83
8.00	1.50-12	Y5684	\$ 728.90	563109	\$ 393.66	K52567-1	\$ 39.37	788-1.500	\$ 391.12

101K/L Accessories

Bore	Base Clevis Part Number	Clevis Pin Part Number	Clevis & Pin Price	Base Pivot Part Number	Pivot Pin Part Number	Pivot & Pin Price
1.50&2.00	54472	KY8658-1	\$ 106.66	54458	KY8658-1	\$ 106.66
2.50&3.00	54474	KY8658-2	\$ 140.96	54460	KY8658-2	\$ 140.96
3.50&4.00	54476	K52562-1	\$ 186.67	54462	K52562-1	\$ 186.67
5.00	54478	K52564-1	\$ 236.20	54464	K52564-1	\$ 236.20
6.00	54480	K52565-1	\$ 303.50	54466	K52566-1	\$ 303.50
8.00	54482	K52567-1	\$ 416.52	54468	K52567-1	\$ 416.52

*Pin price is for pin only and applies to rod eye pin, rod clevis pin, base clevis pin and base pivot pin. Matching base pivot or base clevis is determined by matching the mount "R" dimension with the base pivot or base clevis "E" dimension.

101 Series Service Kits

Rod Gland Kits

101K/L Rod Gland Kits

Rod	Polyurethane		Viton		Buna		EPR	
0.750	RG001530160	\$ 42.10	RG001530161	\$ 58.07	RG001530164	\$ 42.10	RG001530162	\$ 67.93
1.000	RG001530020	\$ 50.81	RG001530021	\$ 65.32	RG001530024	\$ 50.81	RG001530022	\$ 79.22
1.250	RG001530170	\$ 55.16	RG001530171	\$ 71.13	RG001530174	\$ 55.16	RG001530172	\$ 86.51
1.500	RG001530180	\$ 75.49	RG001530181	\$ 100.16	RG001530184	\$ 75.49	RG001530182	\$ 122.70
1.750	RG001530040	\$ 97.25	RG001530041	\$ 127.73	RG001530044	\$ 97.25	RG001530042	\$ 153.12
2.250	RG001530190	\$ 114.67	RG001530191	\$ 152.41	RG001530194	\$ 114.67	RG001530192	\$ 179.99
2.500	RG001530200	\$ 156.42	RG001530201	\$ 196.57				
3.500	RG001530210	\$ 206.03	RG001530211	\$ 271.55				
4.000	RG001530220	\$ 261.31	RG001530221	\$ 363.94				
5.250	RG001530230	\$ 423.57	RG001530231	\$ 547.40				

Rod Seal Kits

101K/L Rod Seal Kits

Rod	Polyurethane		Viton		Buna		EPR	
0.750	RS001540160	\$ 30.49	RS001540161	\$ 37.75	RS001540164	\$ 30.49	RS001540162	\$ 47.62
1.000	RS001540020	\$ 34.84	RS001540021	\$ 45.01	RS001540024	\$ 34.84	RS001540022	\$ 58.91
1.250	RS001540170	\$ 37.75	RS001540171	\$ 49.36	RS001540174	\$ 37.75	RS001540172	\$ 64.76
1.500	RS001540180	\$ 43.55	RS001540181	\$ 58.07	RS001540184	\$ 43.55	RS001540182	\$ 80.61
1.750	RS001540040	\$ 60.97	RS001540041	\$ 81.30	RS001540044	\$ 60.97	RS001540042	\$ 106.68
2.250	RS001540190	\$ 62.41	RS001540191	\$ 82.74	RS001540194	\$ 62.41	RS001540192	\$ 110.32
2.500	RS001540200	\$ 63.84	RS001540201	\$ 130.73				
3.500	RS001540210	\$ 123.61	RS001540211	\$ 232.80				
4.000	RS001540220	\$ 175.82	RS001540221	\$ 258.95				
5.250	RS001540230	\$ 254.93	RS001540231	\$ 375.48				

Tube Seal Kits

101K Light Duty U-Cup Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS2715120K0	\$ 65.32	TS2715120K1	\$ 85.64	TS2715120K2	\$ 102.27
2.00	TS2815120K0	\$ 69.68	TS2815120K1	\$ 91.45	TS2815120K2	\$ 111.82
2.50	TS2915120K0	\$ 74.03	TS2915120K1	\$ 97.25	TS2915120K2	\$ 117.04
3.00	TS3015120K0	\$ 81.30	TS3015120K1	\$ 107.41	TS3015120K2	\$ 138.84
3.50	TS3215120K0	\$ 95.80	TS3215120K1	\$ 127.73	TS3215120K2	\$ 165.28
4.00	TS3315120K0	\$ 113.23	TS3315120K1	\$ 149.51	TS3315120K2	\$ 188.77
5.00	TS3415120K0	\$ 184.35	TS3415120K1	\$ 242.39	TS3415120K2	\$ 290.11
6.00	TS3515120K0	\$ 200.30	TS3515120K1	\$ 264.17	TS3515120K2	\$ 343.82
8.00	TS3715120K0	\$ 277.22	TS3715120K1	\$ 345.45	TS3715120K2	\$ 489.49

101 Series Service Kits

Tube Seal Kits

101L Light Duty U-Cup Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS2715120L0	\$ 65.32	TS2715120L1	\$ 85.64	TS2715120L2	\$ 102.27
2.00	TS2815120L0	\$ 69.68	TS2815120L1	\$ 91.45	TS2815120L2	\$ 111.82
2.50	TS2915120L0	\$ 74.03	TS2915120L1	\$ 97.25	TS2915120L2	\$ 117.04
3.00	TS3015120L0	\$ 81.30	TS3015120L1	\$ 107.41	TS3015120L2	\$ 138.84
3.50	TS3215120L0	\$ 95.80	TS3215120L1	\$ 127.73	TS3215120L2	\$ 165.28
4.00	TS3315120L0	\$ 113.23	TS3315120L1	\$ 149.51	TS3315120L2	\$ 188.77
5.00	TS3415120L0	\$ 184.35	TS3415120L1	\$ 242.39	TS3415120L2	\$ 290.11
6.00	TS3515120L0	\$ 200.30	TS3515120L1	\$ 264.17	TS3515120L2	\$ 343.82
8.00	TS3715120L0	\$ 277.22	TS3715120L1	\$ 345.45	TS3715120L2	\$ 489.49

101K/L Heavy Duty U-Cup Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS2715120H0	\$ 97.25	TS2715120H1	\$ 127.73	TS2715120H2	\$ 144.36
2.00	TS2815120H0	\$ 98.70	TS2815120H1	\$ 130.64	TS2815120H2	\$ 151.00
2.50	TS2915120H0	\$ 121.93	TS2915120H1	\$ 161.12	TS2915120H2	\$ 180.90
3.00	TS3015120H0	\$ 136.44	TS3015120H1	\$ 178.53	TS3015120H2	\$ 209.96
3.50	TS3215120H0	\$ 156.76	TS3215120H1	\$ 206.10	TS3215120H2	\$ 243.66
4.00	TS3315120H0	\$ 223.53	TS3315120H1	\$ 291.75	TS3315120H2	\$ 331.00
5.00	TS3415120H0	\$ 290.28	TS3415120H1	\$ 383.18	TS3415120H2	\$ 430.89
6.00	TS3515120H0	\$ 333.83	TS3515120H1	\$ 439.79	TS3515120H2	\$ 519.44
8.00	TS3715120H0	\$ 510.91	TS3715120H1	\$ 670.56	TS3715120H2	\$ 814.60

101L Heavy Duty SCR Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS2715100H0	\$ 37.75	TS2715100H1	\$ 50.81	TS2715100H2	\$ 67.44
2.00	TS2815100H0	\$ 39.21	TS2815100H1	\$ 53.71	TS2815100H2	\$ 74.09
2.50	TS2915100H0	\$ 55.16	TS2915100H1	\$ 72.57	TS2915100H2	\$ 92.36
3.00	TS3015100H0	\$ 59.52	TS3015100H1	\$ 78.39	TS3015100H2	\$ 109.83
3.50	TS3215100H0	\$ 72.57	TS3215100H1	\$ 94.35	TS3215100H2	\$ 131.89
4.00	TS3315100H0	\$ 114.67	TS3315100H1	\$ 150.96	TS3315100H2	\$ 190.21
5.00	TS3415100H0	\$ 121.93	TS3415100H1	\$ 161.12	TS3415100H2	\$ 208.83
6.00	TS3515100H0	\$ 149.51	TS3515100H1	\$ 195.95	TS3515100H2	\$ 275.60
8.00	TS3715100H0	\$ 171.28	TS3715100H1	\$ 224.98	TS3715100H2	\$ 369.03

101L Light Duty SCR Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
1.50	TS2715100L0	\$ 27.59	TS2715100L1	\$ 37.75	TS2715100L2	\$ 54.37
2.00	TS2815100L0	\$ 30.49	TS2815100L1	\$ 39.21	TS2815100L2	\$ 59.57
2.50	TS2915100L0	\$ 37.75	TS2915100L1	\$ 40.66	TS2915100L2	\$ 60.43
3.00	TS3015100L0	\$ 33.39	TS3015100L1	\$ 43.55	TS3015100L2	\$ 74.99
3.50	TS3215100L0	\$ 37.75	TS3215100L1	\$ 49.36	TS3215100L2	\$ 86.91
4.00	TS3315100L0	\$ 40.66	TS3315100L1	\$ 55.16	TS3315100L2	\$ 94.42
5.00	TS3415100L0	\$ 49.36	TS3415100L1	\$ 59.52	TS3415100L2	\$ 107.23
6.00	TS3515100L0	\$ 60.97	TS3515100L1	\$ 63.87	TS3515100L2	\$ 143.51
8.00	TS3715100L0	\$ 78.39	TS3715100L1	\$ 103.05	TS3715100L2	\$ 247.10

FA Series Price Guide

- **Standard Terms and Conditions**
- **FA – Knifegate 150 PSI Cylinders**
 - **2.50”-24.00” Single and Double Rod End**
 - **Port Options**
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Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

FA – Knifegate 150 PSI

2.50"-24.00" Single and Double Rod End

FA Single and Double Rod End

Bore	Rod	SINGLE ROD END			DOUBLE ROD END	
		Per Inch of Stroke	LE*HLE	TR*O	Per Inch of Stroke	TR*O
2.50	0.625	\$ 4.52	\$ 224.58	\$ 180.74	\$ 6.21	\$ 337.17
3.25	1.000	\$ 4.52	\$ 254.10	\$ 209.36	\$ 6.21	\$ 365.14
4.00	1.000	\$ 5.14	\$ 214.76	\$ 183.32	\$ 6.41	\$ 431.99
5.00	1.000	\$ 6.41	\$ 280.12	\$ 248.68	\$ 7.70	\$ 438.39
6.00	1.000	\$ 7.70	\$ 300.63	\$ 269.19	\$ 8.97	\$ 467.87
7.00	1.000	\$ 10.26	\$ 423.69	\$ 392.24	\$ 11.55	\$ 652.47
8.00	1.000	\$ 14.11	\$ 442.92	\$ 411.47	\$ 15.38	\$ 697.31
10.00	1.000	\$ 24.87	\$ 779.87	\$ 671.78	\$ 30.89	\$ 2,087.98
12.00	1.375	\$ 34.83	\$ 961.43	\$ 837.65	\$ 41.75	\$ 2,478.35
14.00	1.375	\$ 26.92	\$ 1,212.03	\$ 1,180.58	\$ 29.47	\$ 2,320.14
16.00	1.750	\$ 102.54	\$ 2,407.99	\$ 2,376.54	\$ 111.52	\$ 4,486.45
18.00	2.000	\$ 128.19	\$ 4,296.14	\$ 4,264.69	\$ 137.16	\$ 7,493.64
20.00	2.000	\$ 160.23	\$ 4,843.48	\$ 4,812.03	\$ 173.06	\$ 7,835.89
22.00	3.000	\$ 205.10	\$ 5,290.83	\$ 5,259.39	\$ 220.48	\$ 8,565.26
24.00	3.500	\$ 230.39	\$ 6,366.92	\$ 6,335.48	\$ 287.98	\$ 10,597.52

Port Options

FA PORT OPTIONS

Bore	Extra Ports	Ports Per End
2.50	\$	9.59
3.25	\$	9.59
4.00	\$	9.59
5.00	\$	11.99
6.00	\$	11.99
7.00	\$	11.99
8.00	\$	11.99
10.00	\$	40.73
12.00	\$	40.73
14.00	\$	40.73
16.00	\$	43.14
18.00	\$	43.14
20.00	\$	47.92
22.00	\$	47.92
24.00	\$	47.92

Rod End Modifications

FA ROD END OPTIONS

Rod	Bore	A	Per inch or Fraction Over A	W	Per inch or Fraction over W
0.625	2.50	0.750	\$ 3.73	0.625	\$ 1.93
1.000	3.25-5.00	1.125	\$ 3.73	0.750	\$ 1.93
	6.00-8.00	1.125	\$ 3.73	0.875	\$ 1.93
	10.00	1.125	\$ 3.73	1.000	\$ 1.93
1.375	12.00-14.00	1.625	\$ 4.99	1.000	\$ 3.85
	16.00	2.000	\$ 7.48	1.250	\$ 6.41
2.000	18.00-20.00	2.250	\$ 9.97	1.500	\$ 7.70
3.000	22.00	3.500	\$ 16.19	2.250	\$ 10.06
3.500	24.00	3.500	\$ 19.94	2.250	\$ 11.73

FA ROD END OPTIONS

Rod	Flanged Rod End Base	Wrench Flats Per Extra Pair	Steel Rod Stud	SS Rod Stud	Metallic Rod Scraper
0.625	\$ -	\$ 11.21	\$ 11.21	\$ 84.84	\$ 28.67
1.000	\$ 38.62	\$ 11.21	\$ 13.72	\$ 89.94	\$ 37.39
1.375	\$ 38.62	\$ 11.21	\$ 19.94	\$ 142.23	\$ 56.07
1.750	\$ 48.59	\$ 13.72	\$ 37.39	\$ 191.73	\$ 78.50
2.000	\$ 51.08	\$ 16.19	\$ 82.24	\$ 218.98	\$ 87.22
3.000	\$ 103.41	\$ 21.20	\$ 142.86	\$ 781.33	\$ 326.44
3.500	\$ 108.39	\$ 22.43	\$ 188.29	\$ 848.10	\$ 399.93

FA Series Modifications

Material Options

FA ROD MATERIAL OPTIONS

17-4 PH Stainless Steel Piston Rod				303 Stainless Steel Piston Rod			
Rod	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	Single Rod End Per Inch Nominal Stroke	Double Rod End Per Inch Nominal Stroke	Base	
0.625	\$ 5.14	\$ 10.26	\$ 16.67	\$ 3.73	\$ 7.47	\$ 17.45	
1.000	\$ 5.14	\$ 10.26	\$ 16.67	\$ 4.99	\$ 9.97	\$ 26.16	
1.375	\$ 7.70	\$ 15.40	\$ 35.91	\$ 9.97	\$ 19.94	\$ 44.86	
1.750	\$ 8.97	\$ 17.95	\$ 74.34	\$ 11.21	\$ 22.42	\$ 77.25	
2.000	\$ 11.55	\$ 23.08	\$ 107.69	\$ 17.45	\$ 34.89	\$ 158.22	
3.000	\$ 23.08	\$ 46.17	\$ 228.55	\$ 34.88	\$ 69.76	\$ 357.58	
3.500	\$ 31.41	\$ 62.83	\$ 261.20	\$ 37.39	\$ 74.77	\$ 475.94	

FA TUBE MATERIAL OPTIONS

Chrome Bore Tube		Per Inch of Stroke	
Bore	Base	Type I	
2.50	\$ 2.90	\$ 2.64	
3.25	\$ 3.60	\$ 3.28	
4.00	\$ 5.00	\$ 3.71	
5.00	\$ 6.97	\$ 5.17	
6.00	\$ 10.73	\$ 6.71	
7.00	\$ 23.18	\$ 12.53	
8.00	\$ 20.20	\$ 10.92	
10.00	\$ 27.97	\$ 14.63	
12.00	\$ 54.64	\$ 28.58	
14.00	\$ 79.64	\$ 39.08	
16.00	\$ 285.11	\$ 122.94	
18.00	\$ 309.86	\$ 120.57	
20.00	\$ 556.92	\$ 201.93	

Seal Options

FA ROD SEAL OPTIONS

Rod	Single Rod End		Double Rod End	
	VITON	EPR	VITON	EPR
0.625	\$ 7.79	\$ 8.57	\$ 15.58	\$ 17.14
1.000	\$ 7.79	\$ 8.57	\$ 15.59	\$ 17.15
1.375	\$ 16.62	\$ 18.28	\$ 33.24	\$ 36.57
1.750	\$ 18.75	\$ 20.61	\$ 37.47	\$ 41.22
2.000	\$ 20.39	\$ 22.42	\$ 40.77	\$ 44.85
3.000	\$ 37.29	\$ 41.02	\$ 74.55	\$ 82.01
3.500	\$ 50.84	\$ 55.92	\$ 101.66	\$ 111.83

FA TUBE SEAL OPTIONS

Bore	VITON	EPR
2.50	\$ 31.61	\$ 34.78
3.25	\$ 34.60	\$ 38.05
4.00	\$ 37.09	\$ 40.79
5.00	\$ 40.60	\$ 44.66
6.00	\$ 45.05	\$ 49.56
7.00	\$ 54.78	\$ 60.26
8.00	\$ 60.64	\$ 66.70
10.00	\$ 102.16	\$ 112.38
12.00	\$ 127.07	\$ 139.79
14.00	\$ 156.72	\$ 172.40
16.00	\$ 191.36	\$ 210.49
18.00	\$ 314.05	\$ 329.75
20.00	\$ 456.30	\$ 479.12
22.00	\$ 1,215.98	\$ 1,276.78
24.00	\$ 1,374.15	\$ 1,442.87

FA Series Modifications

Supports

FA INTERNAL STOP TUBE

Bore	Rod	Per Inch of Stop Tube	Stop Tube Base
2.50	0.625	\$ 14.81	\$ 22.91
3.25	1.000	\$ 18.88	\$ 29.65
4.00	1.000	\$ 20.21	\$ 31.00
5.00	1.000	\$ 26.96	\$ 36.37
6.00	1.000	\$ 37.74	\$ 45.82
7.00	1.000	\$ 43.14	\$ 51.88
8.00	1.000	\$ 48.52	\$ 57.94
10.00	1.000	\$ 74.12	\$ 80.86
12.00	1.375	\$ 102.43	\$ 105.12
14.00	1.375	\$ 119.92	\$ 153.62
16.00	1.750	\$ 159.89	\$ 225.91
18.00	2.000	\$ 213.20	\$ 332.22
20.00	2.000	\$ 284.26	\$ 488.55
22.00	3.000	\$ 379.02	\$ 718.46
24.00	3.500	\$ 505.35	\$ 1,056.56

Additional Options and Modifications

FA STROKE ADJUST

Bore	Base	Per Inch
2.50	\$ 232.98	\$ 2.50
3.25	\$ 241.71	\$ 3.73
4.00	\$ 241.71	\$ 3.73
5.00	\$ 287.80	\$ 4.99
6.00	\$ 287.80	\$ 4.99
7.00	\$ 301.52	\$ 4.99
8.00	\$ 301.52	\$ 4.99
10.00	\$ 301.52	\$ 4.99

LIFTING EYES

QUANTITY	LIST PRICE
1 THRU 10	\$ 31.45
10 PLUS	\$ 6.73

Additional Options and Modifications

FA TIE ROD EXTENSION

Bore	BB	Per Inch over BB
2.50	1.125	\$ 3.73
3.25	1.375	\$ 4.99
4.00	1.375	\$ 4.99
5.00	1.813	\$ 4.99
6.00	1.813	\$ 4.99
7.00	2.000	\$ 6.25
8.00	2.000	\$ 6.25
10.00	2.250	\$ 6.25
12.00	2.250	\$ 6.25
14.00	2.500	\$ 7.48
16.00	2.750	\$ 8.96
18.00	3.250	\$ 10.75
20.00	3.250	\$ 12.89
22.00	3.500	\$ 12.89
24.00	3.500	\$ 12.89

FA Series - 316 Stainless Steel Construction

Bore	Base	Per Inch of Stroke
2.50	\$ 595.16	\$ 48.22
3.25	\$ 778.39	\$ 55.11
4.00	\$ 862.44	\$ 63.38
5.00	\$ 1,000.20	\$ 82.67
6.00	\$ 1,215.11	\$ 95.06
7.00	\$ -	\$ -
8.00	\$ 1,643.58	\$ 112.97
10.00	\$ 2,423.34	\$ 169.46
12.00	\$ 9,074.76	\$ 316.86
14.00	\$ 11,487.08	\$ 509.75
16.00	\$ 12,981.87	\$ 566.23
18.00	\$ 15,784.05	\$ 657.15
20.00	\$ 19,720.07	\$ 608.94
22.00	\$ 22,086.92	\$ 732.93
24.00	\$ 26,907.42	\$ 856.93

316 SS end covers, piston, and tube.
17-4PH SS rod and tie rods.
Bronze Bearing.

FA Series - 316 Stainless Steel Construction w/ Fiberglass Tube

Bore	Base	Per Inch of Stroke
2.50	\$ 577.25	\$ 23.42
3.25	\$ 752.23	\$ 23.42
4.00	\$ 818.34	\$ 24.81
5.00	\$ 927.18	\$ 24.81
6.00	\$ 1,114.54	\$ 27.57
7.00	\$ 1,278.49	\$ 17.92
8.00	\$ 1,481.02	\$ 17.92
10.00	\$ 2,157.45	\$ 27.57
12.00	\$ 8,507.16	\$ 33.06
14.00	\$ 10,540.61	\$ 42.71
16.00	\$ 12,049.18	\$ 57.87
18.00	\$ 14,699.82	\$ 73.03
20.00	\$ 18,774.99	\$ 78.54
22.00	\$ 21,851.34	\$ 111.61
24.00	\$ 26,495.49	\$ 139.16

316 SS end covers and piston.
17-4PH SS rod and tie rods.
Bronze Bearing.
Fiberglass tube.

FA Series Service Kits

Rod Gland Kits

FA Rod Gland Kits

Rod	Bore	Buna		Viton		EPR	
0.625	2.50	RG00FA30110	\$ 49.14	RG00FA30111	\$ 58.27	RG00FA30112	\$ 66.07
1.000	3.25	RG00FA31120	\$ 49.14	RG00FA31121	\$ 58.62	RG00FA31122	\$ 75.24
1.000	4.00-8.00	RG00FA32120	\$ 49.91	RG00FA32121	\$ 59.18	RG00FA32122	\$ 75.79
1.000	10.00	RG00FA33120	\$ 50.41	RG00FA33121	\$ 61.98	RG00FA33122	\$ 78.59
1.375	12.00	RG00FA34130	\$ 52.55	RG00FA34131	\$ 65.94	RG00FA34132	\$ 84.68
1.375	14.00	RG00FA35130	\$ 53.56	RG00FA35131	\$ 68.22	RG00FA35132	\$ 86.96
1.750	16.00	RG00FA36140	\$ 75.60	RG00FA36141	\$ 94.74	RG00FA36142	\$ 115.12
2.000	18.00	RG00FA37150	\$ 256.81	RG00FA37151	\$ 278.06	RG00FA37152	\$ 315.34
2.000	20.00	RG00FA38150	\$ 256.81	RG00FA38151	\$ 282.95	RG00FA38152	\$ 320.23
3.000	22.00	RG00FA39170	\$ 264.23	RG00FA39171	\$ 304.65	RG00FA39172	\$ 355.48
3.500	24.00	RG00FA3A180	\$ 313.58	RG00FA3A181	\$ 356.31	RG00FA3A182	\$ 412.22

Rod Seal Kits

FA Rod Seal Kits

Rod	Bore	Buna		Viton		EPR	
0.625	2.50	RS00FA40110	\$ 4.67	RS00FA40111	\$ 13.80	RS00FA40112	\$ 15.18
1.000	3.25	RS00FA41120	\$ 4.33	RS00FA41121	\$ 13.80	RS00FA41122	\$ 15.18
1.000	4.00-8.00	RS00FA42120	\$ 4.53	RS00FA42121	\$ 13.80	RS00FA42122	\$ 15.18
1.000	10.00	RS00FA43120	\$ 4.53	RS00FA43121	\$ 16.10	RS00FA43122	\$ 17.71
1.375	12.00	RS00FA44130	\$ 5.87	RS00FA44131	\$ 19.27	RS00FA44132	\$ 21.20
1.375	14.00	RS00FA45130	\$ 5.87	RS00FA45131	\$ 20.53	RS00FA45132	\$ 22.58
1.750	16.00	RS00FA46140	\$ 6.31	RS00FA46141	\$ 25.45	RS00FA46142	\$ 27.99
2.000	18.00	RS00FA47150	\$ 6.64	RS00FA47151	\$ 27.89	RS00FA47152	\$ 30.68
2.000	20.00	RS00FA48150	\$ 6.64	RS00FA48151	\$ 32.78	RS00FA48152	\$ 36.06
3.000	22.00	RS00FA49170	\$ 7.11	RS00FA49171	\$ 47.53	RS00FA49172	\$ 52.28
3.500	24.00	RS00FA4A180	\$ 11.01	RS00FA4A181	\$ 53.72	RS00FA4A182	\$ 59.09

FA Series Service Kits

Tube Seal Kits

FA Quad Ring Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
2.50	TS79FA12000	\$ 9.77	TS79FA12001	\$ 27.23	TS79FA12002	\$ 29.95
3.25	TS81FA12000	\$ 13.05	TS81FA12001	\$ 33.88	TS81FA12002	\$ 37.28
4.00	TS83FA12000	\$ 13.05	TS83FA12001	\$ 39.91	TS83FA12002	\$ 43.90
5.00	TS84FA12000	\$ 36.83	TS84FA12001	\$ 46.95	TS84FA12002	\$ 51.64
6.00	TS85FA12000	\$ 36.83	TS85FA12001	\$ 54.20	TS85FA12002	\$ 59.61
7.00	TS86FA12000	\$ 36.83	TS86FA12001	\$ 64.88	TS86FA12002	\$ 71.38
8.00	TS87FA12000	\$ 47.70	TS87FA12001	\$ 74.70	TS87FA12002	\$ 82.17
10.00	TS88FA12000	\$ 47.72	TS88FA12001	\$ 208.87	TS88FA12002	\$ 229.77
12.00	TS89FA12000	\$ 66.71	TS89FA12001	\$ 310.21	TS89FA12002	\$ 341.23
14.00	TS90FA12000	\$ 188.62	TS90FA12001	\$ 356.84	TS90FA12002	\$ 392.53
16.00	TS91FA12000	\$ 230.29	TS91FA12001	\$ 463.68	TS91FA12002	\$ 510.04
18.00	TS92FA12000	\$ 243.02	TS92FA12001	\$ 621.39	TS92FA12002	\$ 683.52

FA Block Vee Piston Tube Seal Kits

Bore	Buna		Viton		EPR	
20.00	TS93FA12000	\$ 450.56	TS93FA12001	\$ 1,247.10	TS93FA12002	\$ 1,371.80
22.00	TS94FA12000	\$ 521.22	TS94FA12001	\$ 1,763.88	TS94FA12002	\$ 1,940.26
24.00	TS95FA12000	\$ 801.79	TS95FA12001	\$ 1,875.79	TS95FA12002	\$ 2,063.38

Complete Seal Kits

FA Series Complete Repair kits

BORE	ROD DIAMETER	COMPLETE BUNA KIT	LIST PRICE	COMPLETE VITON KIT	LIST PRICE
2.5	1.00	KFA0250BUNA	\$ 14.44	KFA0250VITON	\$ 41.02
3.25	1.00	KFA0325BUNA	\$ 17.38	KFA0325VITON	\$ 47.67
4	1.00	KFA0400BUNA	\$ 17.58	KFA0400VITON	\$ 53.70
5	1.00	KFA0500BUNA	\$ 41.36	KFA0500VITON	\$ 60.73
6	1.00	KFA0600BUNA	\$ 41.36	KFA0600VITON	\$ 67.99
7	1.00	KFA0700BUNA	\$ 41.36	KFA0700VITON	\$ 78.68
8	1.00	KFA0800BUNA	\$ 52.23	KFA0800VITON	\$ 88.50
10	1.00	KFA1000BUNA-A	\$ 52.25	KFA1000VITON-A	\$ 224.96
12	1.38	KFA1200BUNA-A	\$ 72.57	KFA1200VITON-A	\$ 329.47
14	1.38	KFA1400BUNA-A	\$ 194.48	KFA1400VITON-A	\$ 377.37
16	1.75	KFA1600BUNA-A	\$ 236.58	KFA1600VITON-A	\$ 489.12
18	2.00	KFA1800BUNA-A	\$ 249.65	KFA1800VITON-A	\$ 649.27
20	2.00	KFA2000BUNA	\$ 457.20	KFA2000VITON	\$ 1,279.87
22	3.00	KFA2200BUNA	\$ 528.32	KFA2200VITON	\$ 1,811.40
24	3.50	KFA2400BUNA	\$ 812.78	KFA2400VITON	

OSP Price Guide

- **OSP – Rodless Pneumatic Cylinders**
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Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

OSP – Rodless Pneumatic Cylinder

Basic

OSP - Basic Rodless Cylinder

Mount Code	Description	Cylinder Bore Size						
		16	25	32	40	50	63	80
1	Base Cylinder - Single Piston							
	Base Price	\$221.05	\$260.02	\$355.91	\$426.58	\$531.40	\$723.59	\$1,096.57
	Stroke Adder (mm)	\$0.20	\$0.23	\$0.35	\$0.41	\$0.60	\$0.63	\$0.96
	SS Hardware Adder	\$73.02	\$88.05	\$100.06	\$112.21	\$144.70	\$222.26	\$267.29
	Base Cylinder - Double Piston							
	Base Price	\$322.54	\$379.46	\$546.49	\$636.67	\$823.28	\$1,085.37	\$1,644.87
	Stroke Adder (mm)	\$0.20	\$0.23	\$0.35	\$0.41	\$0.60	\$0.63	\$0.96
	SS Hardware Adder	\$146.02	\$176.09	\$200.15	\$224.41	\$289.39	\$444.50	\$534.59
B	Base Cylinder - Active Brake							
	Base Price	N/A	\$511.91	\$566.89	\$681.00	\$938.29	\$1,237.83	\$1,649.85
	Stroke Adder (mm)	N/A	\$0.23	\$0.35	\$0.41	\$0.60	\$0.63	\$0.96

Slideline

OSP - Slideline Guided Rodless Cylinder

Mount Code	Description	Cylinder Bore Size						
		16	25	32	40	50	63	80
5	Slideline - Base Cylinder							
	Base Price	\$390.71	\$459.62	\$585.94	\$689.91	\$851.56	\$1,407.85	N/A
	Stroke Adder (mm)	\$0.26	\$0.29	\$0.48	\$0.56	\$0.77	\$0.91	N/A
	Slideline - Base Cylinder SS							
	Base Price	\$591.69	\$627.64	\$736.06	\$858.21	\$1,068.60	N/A	N/A
	Stroke Adder (mm)	\$0.34	\$0.48	\$0.54	\$0.60	\$0.80	N/A	N/A
U	Slideline - Active Brake							
	Base Price	N/A	\$682.29	\$752.58	\$800.68	\$1,037.68	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.29	\$0.48	\$0.56	\$0.77	N/A	N/A
P	Slideline - Multibrake							
	Base Price	N/A	\$1,178.02	\$1,288.19	\$1,348.33	\$1,647.80	\$1,931.02	\$2,707.44
	Stroke Adder (mm)	N/A	\$0.29	\$0.48	\$0.56	\$0.77	\$0.91	\$1.08
N	Slideline - Multibrake w/Sensor							
	Base Price	N/A	\$1,244.07	\$1,417.53	\$1,477.50	\$1,777.16	\$2,060.18	RFQ
	Stroke Adder (mm)	N/A	\$0.29	\$0.48	\$0.56	\$0.77	\$0.91	RFQ

Guideline

OSP - Guideline Guided Rodless Cylinder

Mount Code	Description	Cylinder Bore Size						
		16	25	32	40	50	63	80
M	Guideline - Base Cylinder							
	Base Price	N/A	\$1,160.73	\$1,286.29	\$1,399.40	\$1,694.02	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.49	\$0.75	\$1.01	\$1.33	N/A	N/A
	Guideline - Base Cylinder SS							
	Base Price	N/A	\$1,198.69	\$1,336.30	\$1,486.77	\$1,797.85	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.71	\$1.11	\$1.51	\$1.99	N/A	N/A

OSP – Rodless Pneumatic Cylinder

Powerslide

OSP - Powerslide Guided Rodless Cylinder

Mount Code	Description	Cylinder Bore Size						
		16	25	32	40	50	63	80
6	Powerslide 25mm Rail - Base							
	Base Price	\$780.58	\$706.32					
	Stroke Adder (mm)	\$0.39	\$0.39					
	Powerslide 25mm Rail - Base SS							
	Base Price	\$1,993.26	\$2,024.51					
	Stroke Adder (mm)	\$1.52	\$1.54					
7	Powerslide 35mm Rail - Base							
	Base Price		\$724.06	\$830.99				
	Stroke Adder (mm)		\$0.43	\$0.54				
	Powerslide 35mm Rail - Base SS							
	Base Price		\$2,016.90	\$2,156.41				
	Stroke Adder (mm)		\$1.60	\$1.73				
8	Powerslide 44mm Rail - Base							
	Base Price		\$829.03	\$992.44	\$1,013.76			
	Stroke Adder (mm)		\$0.51	\$0.71	\$0.84			
	Powerslide 44mm Rail - Base SS							
	Base Price		\$2,218.03	\$2,333.25	\$2,450.38			
	Stroke Adder (mm)		\$1.68	\$1.79	\$1.94			
9	Powerslide 60mm Rail - Base							
	Base Price				\$1,035.96	\$1,090.16		
	Stroke Adder (mm)				\$0.91	\$1.07		
	Powerslide 60mm Rail - Base SS							
	Base Price				\$2,606.99	\$2,916.57		
	Stroke Adder (mm)				\$2.27	\$2.59		
A	Powerslide 76mm Rail - Base							
	Base Price					\$1,482.04		
	Stroke Adder (mm)					\$1.22		
	Powerslide 76mm Rail - Base SS							
	Base Price					\$4,027.27		
	Stroke Adder (mm)					\$2.80		

Proline

OSP - Proline Guided Rodless Cylinder

Mount Code	Description	Cylinder Bore Size						
		16	25	32	40	50	63	80
Q	Proline - Base Cylinder							
	Base Price	N/A	\$1,122.53	\$1,379.15	\$1,465.87	\$2,122.64	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.49	\$0.60	\$0.63	\$0.80	N/A	N/A
R	Proline - Active Brake							
	Base Price	N/A	\$1,177.18	\$1,444.56	\$1,542.07	\$2,209.59	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.49	\$0.60	\$0.63	\$0.80	N/A	N/A
S	Proline - Multibrake							
	Base Price	N/A	\$1,672.92	\$1,940.72	\$2,035.69	\$2,744.36	N/A	N/A
	Stroke Adder (mm)	N/A	\$0.49	\$0.60	\$0.63	\$0.80	N/A	N/A
W	Proline - Multibrake w/Sensor	N/A	RFQ	RFQ	RFQ	RFQ	N/A	N/A

OSP Series Mounts & Accessories

Mounts

OSP - Mountings

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
Floating Mount (Clevis Mount)							
Std material Part Number	OSP-20462	OSP-20005	OSP-20096	OSP-20024	OSP-20097	OSP-20466	OSP-20477
List Each	\$21.15	\$24.89	\$47.40	\$56.67	\$61.16	\$83.46	\$123.43
SS material Part Number	20463	20092	20094	20093	20095	20467	20478
List Each	\$52.07	\$59.09	\$52.24	\$54.74	\$54.23	\$133.27	\$197.29
Inversion Mount							
Std material Part Number	OSP-20446	OSP-20037	OSP-20161	OSP-20039	OSP-20166	OSP-20459	OSP-20490
List Each	\$18.59	\$48.11	\$58.77	\$74.99	\$94.42	\$123.35	\$208.99
SS material Part Number	OSP-20447	OSP-20192	OSP-20264	OSP-20274	OSP-20282	OSP-20460	OSP-20491
List Each	\$21.64	\$56.67	\$65.43	\$82.15	\$107.61	\$136.55	\$266.34
End Cap Mounts							
A1 Style Part Number	OSP-20408	OSP-2010	OSP-3010				
List Each	\$5.46	\$6.41	\$7.22				
A2 Style Part Number	OSP-20464	OSP-2040	OSP-3040				
List Each	\$25.33	\$6.96	\$8.08				
A3 Style Part Number		OSP-2060	OSP-3060				
List Each		\$7.18	\$8.37				
B1 Style Part Number		OSP-20311	OSP-20313				
List Each		\$7.28	\$16.89				
B3 Style Part Number	OSP-20465						
List Each	\$27.87						
B4 Style Part Number		OSP-20312	OSP-20314				
List Each		\$56.14	\$59.36				
C1 Style Part Number				OSP-4010	OSP-5010	OSP-6010	OSP-8010
List Each				\$17.29	\$22.95	\$30.75	\$45.15
C2 Style Part Number				OSP-20338	OSP-20349		
List Each				\$23.86	\$24.90		
C3 Style Part Number				OSP-20339	OSP-20350	OSP-20821	OSP-20822
List Each				\$25.75	\$25.75	RFQ	RFQ
C4 Style Part Number				OSP-20340	OSP-20351		
List Each				\$27.23	\$30.82		
Center Support Mounts							
D1 Std Mat'l Part Number	OSP-20434	OSP-20008	OSP-20157	OSP-20027	OSP-20162	OSP-20451	OSP-20480
List Each	\$17.10	\$20.69	\$21.58	\$23.23	\$27.87	\$33.15	\$44.75
D1 SS Mat'l Part Number	OSP-20440	OSP-20188	OSP-20260	OSP-20269	OSP-20277	OSP-20454	OSP-20481
List Each	\$17.74	\$21.10	\$21.81	\$24.28	\$28.91	\$34.62	\$46.44
E1 Std Mat'l Part Number	OSP-20435	OSP-20009	OSP-20158	OSP-20028	OSP-20163	OSP-20452	OSP-20482
List Each	\$10.75	\$37.08	\$39.97	\$49.89	\$62.42	\$75.86	\$89.54
E1 SS Mat'l Part Number	OSP-20441	OSP-20189	OSP-20261	OSP-20270	OSP-20278	OSP-20455	OSP-20483
List Each	\$17.94	\$38.39	\$41.30	\$51.21	\$63.75	\$77.20	\$90.85
E2 Std Mat'l Part Number	OSP-20436	OSP-20352	OSP-20355	OSP-20358	OSP-20361		
List Each	\$27.23	\$37.27	\$41.14	\$50.37	\$62.83		
E2 SS Mat'l Part Number	OSP-20442	OSP-20413	OSP-20416	OSP-20419	OSP-20422		
List Each	\$28.55	\$38.60	\$42.45	\$51.69	\$64.15		

OSP Series Mounts & Accessories

Mountings

OSP - Mountings

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
Center Support Mounts (continued)							
E3 Std Mat'l Part Number	OSP-20437	OSP-20353	OSP-20356	OSP-20359	OSP-20362	OSP-20453	OSP-20819
List Each	\$41.80	\$38.41	\$42.55	\$52.23	\$63.64	RFQ	RFQ
E3 SS Mat'l Part Number	OSP-20443	OSP-20414	OSP-20417	OSP-20420	OSP-20423		
List Each	\$43.12	\$39.73	\$43.85	\$53.55	\$65.03		
E4 Std Mat'l Part Number		OSP-20354	OSP-20357	OSP-20360	OSP-20363		
List Each		\$41.00	\$44.91	\$53.93	\$65.59		
E4 SS Mat'l Part Number		OSP-20415	OSP-20418	OSP-20421	OSP-20424		
List Each		\$42.32	\$46.22	\$55.24	\$66.90		

Accessories

OSP - Accessories

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
"T" Nut Rail							
Std Mat'l Part Number	OSP-20433	OSP-20007	OSP-20007	OSP-20026	OSP-20026		
List Each	\$17.94	\$17.94	\$17.94	\$17.94	\$17.94		
SS Mat'l Part Number	OSP-20243	OSP-20187	OSP-20187	OSP-20268	OSP-20268		
List Each	\$20.47	\$20.47	\$20.47	\$20.47	\$20.47		
Universal Rail							
Std Mat'l Part Number	OSP-20432	OSP-20006	OSP-20006	OSP-20025	OSP-20025		
List Each	\$20.47	\$20.47	\$20.47	\$20.47	\$20.47		
SS Mat'l Part Number	OSP-20438	OSP-20186	OSP-20186	OSP-20267	OSP-20267		
List Each	\$23.54	\$23.54	\$23.54	\$23.54	\$23.54		
Shock Mount							
Part Number		OSP-20169	OSP-20173	OSP-20170	OSP-20174		
List Each		\$230.84	\$230.84	\$230.84	\$230.84		

OSP Series Mounts & Accessories

Switches & Sensors

OSP - Proximity Switches

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
Reed Switches "NO" w/5m cable (OSP-KL3045) List Each	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17
"NC" w/Connector (OSP-KL3087) List Each	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17
"NC" w/5m cable (OSP-KL3048) List Each	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17	\$57.17
Cable-5m for Sensors (OSP-4041) List Each	\$26.79	\$26.79	\$26.79	\$26.79	\$26.79	\$26.79	\$26.79
Hall Effect Switches "PNP" w/5m cable (OSP-10750) List Each	\$118.25	\$118.25	\$118.25	\$118.25	\$118.25	\$118.25	\$118.25
"NPN" w/5m cable (OSP-10751) List Each	\$94.50	\$94.50	\$94.50	\$94.50	\$94.50	\$94.50	\$94.50
Cable Cover Strip - OSP-20852-00000 Stroke Adder (mm)	\$0.07	\$0.07	\$0.07	\$0.07	\$0.07	\$0.07	\$0.07

OSP - Sensing Options

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
SFI - Sensoflex Optical Displacement OSP-20294-00000 Sensor Head w/Bracket List Each		OSP-20426 \$297.32	OSP-20427 \$299.04	OSP-20428 \$299.48	OSP-20429 \$300.76	OSP-20771 \$307.43	OSP-20772 \$318.18
SFI Optical Strip Stroke Adder (mm) List Each		\$1.11	\$1.11	\$1.11	\$1.11	\$1.11	\$1.11
SFI Encoder List Each		\$1,244.59	\$1,244.59	\$1,244.59	\$1,244.59	\$1,244.59	\$1,244.59
SFA - Sensoflex Analog Displacement OSP-4650-00000 List Each		\$817.53	\$817.53				
Stroke Adder (mm) List Each		\$39.58	\$39.58				
SFA 5m cable accessory List Each		OSP-4618 \$52.50	OSP-4618 \$52.50				
SFA Cylinder Bracket List Each		OSP-20430 \$158.76	OSP-20431 \$158.76				

OSP Series Modifications

Modifications

Description		OSP - Modifications						
		Cylinder Bore Size						
		16	25	32	40	50	63	80
Viton Seals - single piston	List Adder	\$80.38	\$94.58	\$104.32	\$134.81	\$170.50	\$363.22	\$453.60
Slow Speed Grease - single piston	List Adder	\$3.80	\$4.45	\$7.18	\$8.96	\$10.56	\$13.50	\$19.59
Food Grade Grease	List Adder	\$7.56	\$8.89	\$14.33	\$17.94	\$21.10	\$27.01	\$39.21
Clean Room Grease - single piston	List Adder	\$53.64	\$80.43	\$107.22	\$150.13	\$281.46	\$504.59	\$953.14
Corrosion Resistant Xylan Coating	Base Adder	\$38.13	\$44.83	\$72.04	\$107.23	\$120.05	\$169.65	\$312.11
	Stoke Adder (mm)	\$0.27	\$0.31	\$0.38	\$0.45	\$0.52	\$0.57	\$0.63
Single End Porting	Base Adder	\$137.25	\$121.34	\$124.94	\$125.96	\$138.88	\$145.75	\$151.02
	Stoke Adder (mm)	\$0.12	\$0.12	\$0.12	\$0.12	\$0.12	\$0.12	\$0.12

Grease Options

Description		OSP - Grease						
		Cylinder Bore Size						
		16	25	32	40	50	63	80
Standard Grease 14oz tube		OSP-GRS-14 \$24.24						
Standard Grease 1.5oz tube		OSP-GRS-1 \$11.44						
Slow Speed Grease 1.5oz tube		OSP-SLO-1 \$15.97						
Food Grade Grease 14.5oz tube		OSP-FOO-14 \$108.36						
Clean Room Grease 1 lb pail		OSP-CRM-LB \$3,369.49						
PG Grease 14oz tube		OSP-PG-14 \$12.10						

OSP Series Service Kits

Complete Kits

OSP - Complete Service Packs

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
Buna Service Pack - Std Cylinder							
Part Number	OSP-11111	OSP-11112	OSP-11113	OSP-11114	OSP-11115	OSP-11116	OSP-11118
List Each	\$123.34	\$100.48	\$123.03	\$132.17	\$144.84	\$179.19	\$201.36
Stroke Adder (mm)	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18
Viton Service Pack - Std Cylinder							
Part Number	OSP-11121	OSP-11122	OSP-11123	OSP-11124	OSP-11125	OSP-11126	OSP-11128
List Each	\$171.65	\$210.05	\$251.62	\$344.22	\$360.82	\$581.07	\$688.37
Stroke Adder (mm)	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18

Seal Kits

OSP - Seal Kits

Description	Cylinder Bore Size						
	16	25	32	40	50	63	80
Buna Seal Kit - Std Cylinder							
Part Number	OSP-11052	OSP-11053	OSP-11054	OSP-11055	OSP-11056	OSP-11057	OSP-11058
List Each	\$51.05	\$61.90	\$86.70	\$94.50	\$106.11	\$131.16	\$148.63
Viton Seal Kit - Std Cylinder							
Part Number	OSP-11059	OSP-11060	OSP-11061	OSP-11062	OSP-11063	OSP-11064	OSP-11065
List Each	\$153.18	\$192.26	\$224.94	\$304.40	\$334.05	\$511.51	\$607.05
Seal Kit - Slideline Carriage							
Part Number	OSP-11066	OSP-11067	OSP-11068	OSP-11069	OSP-11070		
List Each	\$24.53	\$38.78	\$41.09	\$43.56	\$46.36		
Seal Kit - Active Brake on Std Cylinder							
Part Number		OSP-11822	OSP-11823	OSP-11824	OSP-11825	OSP-11826	OSP-11827
List Each		\$78.64	\$105.84	\$111.01	\$125.44	\$138.12	\$155.77
Seal Kit - Multibrake							
Part Number		OSP-11089	OSP-11090	OSP-11091	OSP-11092	OSP-11093	
List Each		\$107.69	\$114.90	\$123.60	\$141.41	\$191.10	

7P/7R Booster & Tank Pricing

- **7P2 – Air Oil Booster**
 - **3.25”-8.00” Pneumatic Bore**
 - **10.00”-14.00” Pneumatic Bore**
- **7P3 – Air Oil Booster**
 - **3.25”-8.00” Pneumatic Bore**
 - **10.00”-14.00” Pneumatic Bore**
- **7R – Air Oil Tank**

Standard Terms and Conditions

LEGAL EFFECT: Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

TERMS OF PAYMENT: Unless otherwise specified in this order, the terms of payment shall be net cast within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

TAXES: All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless include in the purchase price at the proper rate or a proper exemption certificate is furnished.

ACCEPTANCE: All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

DELIVERY: Except as otherwise specified in this quotation, delivery will be F. O. B. cars point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

TITLE & LIEN RIGHTS: The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

PATENT INFRINGEMENT: If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

STANDARD WARRANTY: Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- Consequential, collateral or special losses or damages;
- Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- Deviation from operating instructions, specifications or other special terms of sale;
- Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

LIABILITY LIMITATIONS: Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

ENVIRONMENTAL AND OSHA REQUIREMENTS: At the time of shipment of the equipment from the factory, Quincy Compressor / Quincy Ortman Cylinders will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

Quincy Ortman Cylinders enforces a \$25.00 net minimum order charge.

7P2 – Air Oil Booster

3.25"-8.00" Pneumatic Bore

7P2 Air Oil Boosters

Bore	Ram	Per Inch of Stroke	KA*KAA*KJ*KG	KCC	KH	KL*KM*KN*K O
3.25	1.000	\$ 27.57	\$ 1,678.37	\$ 1,709.52	\$ 1,650.82	\$ 1,630.46
	1.375	\$ 34.75	\$ 1,933.54	\$ 1,965.90	\$ 1,749.07	\$ 1,883.23
	1.750	\$ 38.33	\$ 2,068.92	\$ 2,101.27	\$ 2,041.37	\$ 2,018.61
	2.000	\$ 43.14	\$ 2,245.02	\$ 2,277.36	\$ 2,217.46	\$ 2,194.70
4.00	1.000	\$ 29.95	\$ 1,709.52	\$ 1,743.07	\$ 1,678.37	\$ 1,655.61
	1.375	\$ 37.14	\$ 1,950.31	\$ 1,986.25	\$ 1,917.97	\$ 1,894.01
	1.750	\$ 41.93	\$ 2,095.28	\$ 2,131.22	\$ 2,062.93	\$ 2,038.97
	2.000	\$ 44.33	\$ 2,273.78	\$ 2,309.70	\$ 2,241.43	\$ 2,218.66
	2.500	\$ 52.71	\$ 2,464.24	\$ 2,503.78	\$ 2,434.30	\$ 2,411.54
5.00	1.000	\$ 35.95	\$ 1,777.80	\$ 1,765.83	\$ 1,747.85	\$ 1,721.50
	1.375	\$ 38.33	\$ 1,989.85	\$ 2,035.38	\$ 1,958.71	\$ 1,932.34
	1.750	\$ 47.92	\$ 2,134.81	\$ 2,179.13	\$ 2,102.46	\$ 2,077.30
	2.000	\$ 51.52	\$ 2,150.38	\$ 2,194.70	\$ 2,118.03	\$ 2,092.88
	2.500	\$ 61.10	\$ 2,527.75	\$ 2,572.08	\$ 2,495.40	\$ 2,470.24
	3.000	\$ 64.70	\$ 2,742.18	\$ 2,785.31	\$ 2,711.04	\$ 2,683.47
	3.500	\$ 82.67	\$ 3,054.85	\$ 3,070.43	\$ 2,996.15	\$ 2,967.39
6.00	1.375	\$ 46.73	\$ 2,443.88	\$ 2,488.21	\$ 2,411.54	\$ 2,386.38
	1.750	\$ 50.33	\$ 2,592.43	\$ 2,639.15	\$ 2,558.89	\$ 2,533.73
	2.000	\$ 53.92	\$ 2,645.15	\$ 2,690.66	\$ 2,610.41	\$ 2,584.05
	2.500	\$ 62.30	\$ 2,855.98	\$ 2,902.72	\$ 2,822.45	\$ 2,796.09
	3.000	\$ 70.68	\$ 3,078.81	\$ 3,125.54	\$ 3,045.28	\$ 3,018.92
	3.500	\$ 82.67	\$ 3,335.18	\$ 3,380.71	\$ 3,301.64	\$ 3,325.60
	4.000	\$ 97.04	\$ 3,626.29	\$ 3,673.02	\$ 3,592.75	\$ 3,567.58
8.00	1.375	\$ 57.51	\$ 3,050.06	\$ 3,100.38	\$ 2,999.75	\$ 2,969.80
	1.750	\$ 63.49	\$ 3,336.38	\$ 3,402.26	\$ 3,284.87	\$ 3,275.27
	2.000	\$ 67.09	\$ 3,536.44	\$ 3,590.35	\$ 3,481.34	\$ 3,543.62
	2.500	\$ 76.67	\$ 3,773.64	\$ 3,826.36	\$ 3,718.54	\$ 3,687.39
	3.000	\$ 83.86	\$ 3,955.73	\$ 4,008.44	\$ 3,903.02	\$ 3,871.88
	3.500	\$ 95.84	\$ 4,134.23	\$ 4,188.14	\$ 4,080.33	\$ 4,050.38
	4.000	\$ 105.43	\$ 4,514.00	\$ 4,567.91	\$ 4,460.09	\$ 4,430.14
	4.500	\$ 122.19	\$ 4,600.24	\$ 4,941.67	\$ 4,836.26	\$ 4,805.10
	5.000	\$ 138.98	\$ 5,340.60	\$ 5,393.30	\$ 5,286.69	\$ 5,256.74
	5.500	\$ 158.14	\$ 5,842.55	\$ 5,895.26	\$ 5,788.64	\$ 5,758.69

7P2 – Air Oil Booster

10.00”-14.00” Pneumatic Bore

7P2 Air Oil Boosters

Bore	Ram	Per Inch of Stroke	KA*KAA*KJ*KG	KCC	KH	KL*KM*KN*K O
10.00	1.750	\$ 79.08	\$ 4,603.84	\$ 4,669.73	\$ 4,541.55	\$ 4,509.20
	2.000	\$ 86.27	\$ 4,997.99	\$ 5,066.26	\$ 4,933.29	\$ 4,899.74
	2.500	\$ 95.84	\$ 5,251.95	\$ 5,265.13	\$ 5,129.76	\$ 5,097.41
	3.000	\$ 105.43	\$ 5,456.81	\$ 5,525.09	\$ 5,389.71	\$ 5,356.17
	3.500	\$ 116.22	\$ 5,737.13	\$ 5,805.42	\$ 5,671.24	\$ 5,637.70
	4.000	\$ 130.58	\$ 5,981.52	\$ 6,049.80	\$ 5,916.83	\$ 5,882.10
	4.500	\$ 141.37	\$ 6,415.19	\$ 6,483.47	\$ 6,350.49	\$ 6,316.96
	5.000	\$ 152.14	\$ 6,917.15	\$ 6,980.63	\$ 6,852.45	\$ 6,817.72
	5.500	\$ 171.32	\$ 7,450.24	\$ 7,519.73	\$ 7,384.35	\$ 7,350.82
12.00	2.000	\$ 125.79	\$ 6,298.98	\$ 6,382.84	\$ 6,213.93	\$ 6,168.41
	2.500	\$ 140.17	\$ 6,717.08	\$ 6,803.34	\$ 6,628.43	\$ 6,590.10
	3.000	\$ 149.75	\$ 7,071.68	\$ 7,159.14	\$ 6,983.04	\$ 6,944.70
	3.500	\$ 161.74	\$ 7,386.76	\$ 7,475.40	\$ 7,299.30	\$ 7,259.77
	4.000	\$ 184.49	\$ 7,744.94	\$ 7,832.40	\$ 7,656.30	\$ 7,616.76
	4.500	\$ 186.89	\$ 8,161.85	\$ 8,178.61	\$ 8,073.19	\$ 8,034.85
	5.000	\$ 204.86	\$ 8,650.62	\$ 8,738.07	\$ 8,561.98	\$ 8,523.63
	5.500	\$ 225.22	\$ 9,214.87	\$ 9,302.31	\$ 9,126.22	\$ 9,087.88
14.00	2.500	\$ 160.53	\$ 8,867.45	\$ 8,982.46	\$ 8,764.43	\$ 8,723.70
	3.000	\$ 177.31	\$ 9,565.88	\$ 9,679.68	\$ 9,450.87	\$ 9,407.74
	3.500	\$ 189.29	\$ 9,909.70	\$ 10,029.50	\$ 9,800.68	\$ 9,759.95
	4.000	\$ 203.65	\$ 10,315.82	\$ 10,481.14	\$ 10,207.99	\$ 10,164.88
	4.500	\$ 215.65	\$ 10,785.42	\$ 10,905.21	\$ 10,693.17	\$ 10,634.47
	5.000	\$ 233.61	\$ 11,326.91	\$ 11,447.90	\$ 11,217.88	\$ 11,175.97
	5.500	\$ 252.78	\$ 11,898.34	\$ 12,018.14	\$ 11,789.33	\$ 11,748.60

7P3 – Air Oil Booster

3.25"-8.00" Pneumatic Bore

7P3 Air Oil Boosters with Tank

Bore	Ram	Per Inch of Stroke	Per Inch of Tank	KA*KAA*KJ*KG	KCC	KH	KL*KM*KN*KO
3.25	1.000	\$ 26.36	\$ 14.38	\$ 1,995.85	\$ 2,025.79	\$ 1,969.49	\$ 1,949.11
	1.375	\$ 33.54	\$ 14.38	\$ 2,240.22	\$ 2,271.37	\$ 2,211.48	\$ 2,189.91
	1.750	\$ 37.14	\$ 14.38	\$ 2,370.81	\$ 2,403.16	\$ 2,343.25	\$ 2,321.69
	2.000	\$ 41.93	\$ 14.38	\$ 2,539.72	\$ 2,570.86	\$ 2,510.97	\$ 2,490.61
4.00	1.375	\$ 35.95	\$ 15.58	\$ 2,282.16	\$ 2,316.89	\$ 2,251.01	\$ 2,227.05
	1.750	\$ 38.33	\$ 15.58	\$ 2,418.73	\$ 2,454.67	\$ 2,387.59	\$ 2,366.02
	2.000	\$ 43.14	\$ 15.58	\$ 2,590.04	\$ 2,623.58	\$ 2,558.89	\$ 2,536.13
	2.500	\$ 51.52	\$ 15.58	\$ 2,775.73	\$ 2,810.47	\$ 2,745.78	\$ 2,720.61
5.00	1.000	\$ 34.75	\$ 19.17	\$ 2,140.79	\$ 2,180.33	\$ 2,110.85	\$ 2,085.69
	1.375	\$ 37.14	\$ 19.17	\$ 2,346.84	\$ 2,388.78	\$ 2,315.70	\$ 2,289.35
	1.750	\$ 46.73	\$ 19.17	\$ 2,483.43	\$ 2,526.54	\$ 2,452.27	\$ 2,425.92
	2.000	\$ 50.33	\$ 19.17	\$ 2,660.72	\$ 2,703.85	\$ 2,630.77	\$ 2,603.22
	2.500	\$ 59.90	\$ 19.17	\$ 2,860.78	\$ 2,902.72	\$ 2,829.64	\$ 2,804.48
	3.000	\$ 62.30	\$ 19.17	\$ 3,065.63	\$ 3,107.57	\$ 3,035.68	\$ 3,008.14
	3.500	\$ 79.08	\$ 19.17	\$ 3,338.78	\$ 3,381.90	\$ 3,307.63	\$ 3,282.46
6.00	1.375	\$ 46.73	\$ 25.16	\$ 2,965.01	\$ 3,008.14	\$ 2,932.66	\$ 2,906.30
	1.750	\$ 49.12	\$ 25.16	\$ 3,130.33	\$ 3,178.24	\$ 3,096.79	\$ 3,070.43
	2.000	\$ 53.92	\$ 25.16	\$ 3,165.07	\$ 3,212.98	\$ 3,129.13	\$ 3,105.17
	2.500	\$ 62.30	\$ 25.16	\$ 3,378.30	\$ 3,426.24	\$ 3,344.77	\$ 3,317.21
	3.000	\$ 70.68	\$ 25.16	\$ 3,602.32	\$ 3,649.05	\$ 3,568.79	\$ 3,541.24
	3.500	\$ 82.67	\$ 25.16	\$ 3,857.50	\$ 3,904.22	\$ 3,823.96	\$ 3,796.40
	4.000	\$ 97.04	\$ 25.16	\$ 4,147.41	\$ 4,195.33	\$ 4,113.87	\$ 4,087.52
8.00	1.375	\$ 57.51	\$ 32.35	\$ 3,690.99	\$ 3,743.69	\$ 3,640.66	\$ 3,610.72
	1.750	\$ 63.49	\$ 32.35	\$ 4,010.85	\$ 4,064.75	\$ 3,956.93	\$ 3,925.79
	2.000	\$ 67.09	\$ 32.35	\$ 4,178.55	\$ 4,233.66	\$ 4,125.85	\$ 4,095.90
	2.500	\$ 76.67	\$ 32.35	\$ 4,415.76	\$ 4,470.86	\$ 4,363.05	\$ 4,331.90
	3.000	\$ 83.86	\$ 32.35	\$ 4,599.05	\$ 4,652.96	\$ 4,545.14	\$ 4,514.00
	3.500	\$ 95.84	\$ 32.35	\$ 4,777.55	\$ 4,831.45	\$ 4,724.83	\$ 4,693.69
	4.000	\$ 105.43	\$ 32.35	\$ 5,158.50	\$ 5,211.22	\$ 5,103.40	\$ 5,072.25
	4.500	\$ 122.19	\$ 32.35	\$ 5,531.08	\$ 5,586.19	\$ 5,478.38	\$ 5,447.22
	5.000	\$ 138.98	\$ 32.35	\$ 5,983.91	\$ 6,037.82	\$ 5,930.01	\$ 5,900.06
	5.500	\$ 156.94	\$ 32.35	\$ 6,484.67	\$ 6,538.57	\$ 6,431.96	\$ 6,400.81

7P3 – Air Oil Booster

10.00”-14.00” Pneumatic Bore

7P3 Air Oil Boosters with Tank

Bore	Ram	Per Inch of Stroke	Per Inch of Tank	KA*KAA*KJ*KG	KCC	KH	KL*KM*KN*KO
10.00	1.750	\$ 79.08	\$ 45.52	\$ 5,526.29	\$ 5,592.18	\$ 5,464.00	\$ 5,431.64
	2.000	\$ 86.27	\$ 45.52	\$ 5,922.82	\$ 5,992.30	\$ 5,858.12	\$ 5,824.59
	2.500	\$ 95.84	\$ 45.52	\$ 6,120.49	\$ 6,191.17	\$ 6,055.80	\$ 6,021.05
	3.000	\$ 105.43	\$ 45.52	\$ 6,381.64	\$ 6,449.92	\$ 6,316.96	\$ 6,282.22
	3.500	\$ 116.22	\$ 45.52	\$ 6,663.17	\$ 6,730.26	\$ 6,596.08	\$ 6,561.34
	4.000	\$ 129.38	\$ 45.52	\$ 6,906.36	\$ 6,974.65	\$ 6,841.67	\$ 6,806.93
	4.500	\$ 141.37	\$ 45.52	\$ 7,341.22	\$ 7,410.71	\$ 7,275.34	\$ 7,241.79
	5.000	\$ 152.14	\$ 45.52	\$ 7,843.19	\$ 7,911.47	\$ 7,777.30	\$ 7,743.75
5.500	\$ 171.32	\$ 45.52	\$ 8,375.09	\$ 8,444.57	\$ 8,309.20	\$ 8,275.65	
12.00	2.000	\$ 121.00	\$ 68.29	\$ 7,399.92	\$ 7,481.39	\$ 7,319.66	\$ 7,283.73
	2.500	\$ 134.18	\$ 68.29	\$ 7,806.05	\$ 7,891.10	\$ 7,719.79	\$ 7,683.85
	3.000	\$ 143.76	\$ 68.29	\$ 8,145.07	\$ 8,230.12	\$ 8,061.21	\$ 8,022.88
	3.500	\$ 155.74	\$ 68.29	\$ 8,448.16	\$ 8,533.22	\$ 8,364.30	\$ 8,325.96
	4.000	\$ 176.11	\$ 68.29	\$ 9,818.64	\$ 8,874.64	\$ 8,705.73	\$ 8,666.19
	4.500	\$ 178.51	\$ 68.29	\$ 9,190.91	\$ 9,274.77	\$ 9,105.85	\$ 9,033.97
	5.000	\$ 196.48	\$ 68.29	\$ 9,659.32	\$ 9,744.37	\$ 9,574.27	\$ 9,284.36
	5.500	\$ 215.65	\$ 68.29	\$ 10,199.61	\$ 10,284.67	\$ 10,114.55	\$ 10,077.42
14.00	2.500	\$ 153.34	\$ 86.27	\$ 10,573.38	\$ 10,683.60	\$ 10,473.95	\$ 10,434.42
	3.000	\$ 171.32	\$ 86.27	\$ 11,251.44	\$ 11,365.25	\$ 11,311.34	\$ 11,105.28
	3.500	\$ 180.90	\$ 86.27	\$ 11,586.87	\$ 11,700.68	\$ 11,482.65	\$ 11,441.91
	4.000	\$ 195.27	\$ 86.27	\$ 11,975.01	\$ 12,090.02	\$ 11,872.00	\$ 11,830.06
	4.500	\$ 206.06	\$ 86.27	\$ 12,424.25	\$ 12,540.47	\$ 12,321.23	\$ 12,279.31
	5.000	\$ 222.83	\$ 86.27	\$ 12,944.19	\$ 13,059.18	\$ 12,841.16	\$ 12,799.22
	5.500	\$ 241.99	\$ 86.27	\$ 13,491.66	\$ 13,606.66	\$ 13,387.44	\$ 13,345.50

7R Air Oil Tanks

3.25"-14.00" Bore

7R Air Oil Tanks

Bore	Per Inch of Length	KA*KAA	KCC	KG*KJ	KL*KM*KN*KO
3.25	\$ 15.58	\$ 279.48	\$ 344.17	\$ 310.63	\$ 255.52
4.00	\$ 16.78	\$ 309.43	\$ 380.11	\$ 342.98	\$ 283.07
5.00	\$ 21.57	\$ 342.98	\$ 422.04	\$ 376.53	\$ 336.98
6.00	\$ 27.57	\$ 435.00	\$ 523.65	\$ 470.95	\$ 405.06
8.00	\$ 35.95	\$ 568.81	\$ 687.42	\$ 628.72	\$ 535.27
10.00	\$ 49.12	\$ 886.06	\$ 1,034.61	\$ 959.14	\$ 848.93
12.00	\$ 75.48	\$ 1,396.23	\$ 1,586.72	\$ 1,489.68	\$ 1,305.19
14.00	\$ 95.84	\$ 2,200.87	\$ 2,441.67	\$ 2,315.88	\$ 1,426.98