

"Apollo" Valves

Actuation



price list

www.apollovalves.com

customerservice 704.841.6000

ACPL-0722 Effective 11JUL22



integrated
piping systems



ACTUATION PRICE LIST

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ACTUATION PRICE LIST

All prices on this listing are subject to change without notice. While we make every effort to provide you the most accurate, up-to-date information, occasionally, one or more items on the listing may be incorrectly priced. Where a product is listed at an incorrect price due to typographical, photographic, or technical error or error in pricing information received from our suppliers, Apollo Flow Controls shall have the right to refuse or cancel any orders placed for product listed at the incorrect price.



Conbraco Industries, Inc. warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of FIVE years from the date of delivery to you, our initial purchaser. This warranty applies to Apollo brand product with "Made in the USA" markings only.

Should any failure to conform to this warranty appear within **FIVE** years after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

APOLLO INTERNATIONAL PRODUCTS: Conbraco Industries, Inc. warrants its International products, to its initial purchaser only, that its international products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of TWO years from the date of delivery to you, our initial purchaser.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED, EXCEPT THE WARRANTY OF TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Conbraco to our initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of Conbraco Industries, Inc. that no warranty of any kind, whether expressed or implied shall pass through our initial purchaser to any other person or corporation.

LIMITATION OF LIABILITY: Conbraco Industries, inc. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, DAMAGES OR TO LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASED OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF OUR INITIAL PURCHASER. THE REMEDIES OF OUR INITIAL PURCHASER, AND ALL OTHERS, SET FORTH HEREIN, ARE EXCLUSIVE, AND THE LIABILITY OF CONBRACO WITH RESPECT TO SAME SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE GOODS UPON WHICH SUCH LIABILITY IS BASED.

* It is the end user's responsibility to confirm that items intended for use satisfy local codes and standards.

TERMS AND CONDITIONS OF SALE

- Net 30 days.
- All prices F.O.B. shipping point with freight allowed on shipments \$6,000 net minimum to all shipping points within the United States, excluding Alaska and Hawaii. No freight allowed on Air Freight or Parcel Post shipments. Claims for shortages must be made within 10 days of receipt of material. Our responsibility ends when a receipt is furnished us by the carrier.
- No invoice rendered for less than \$50.00.
- No freight will be allowed on Air Freight, Air Express, Parcel Post or U.P.S. shipments.
- All Conbraco products may be combined to make sufficient weight for full freight allowance.
- Phone order quoted prices are subject to correction. Prices and designs are subject to change without notice.
- Orders for material or special design or specification are made to customer's order and are not subject to cancellation or return.
- All goods returned to us will not be accepted unless a full explanation has been made and our written authorized permission obtained in advance. All goods returned - if accepted - will be credited at invoice price, less 30% for service and rehandling charges, plus shipping expenses.
- We reserve the right to adjust orders to box quantities.



THROUGHOUT THIS CATALOG, PRODUCTS THAT ARE CERTIFIED **LEAD FREE*** OR HAVE A **LEAD FREE*** OPTION WILL BE IDENTIFIED WITH THESE LOGOS.

*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

Conbraco Industries offers a wide range of Apollo products for potable and non-potable applications. When the use of lead free valves is required by code, specification or legislation, it is the sole responsibility of our customers to ensure that only lead free Apollo products are installed in systems intended for potable water service. Further information related to our product offering and the U.S. Safe Drinking Water Act (SDWA) is available at www.apollovalves.com/lead_free or by contacting Conbraco Customer Service.

**Any imported products will be clearly identified as "Apollo International™"



ACTUATION PRICE LIST

APOLLO ACTUATOR READY BALL VALVES HOW TO ORDER

XX	- AR	X	-64	-XX
SERIES	CONSTANTS	SIZE (IN.)	SEATS	OPTIONS
71 - STD. PORT BRONZE	AR - ACTUATOR READY 316 SS BALL & STEM MULTIFILL STEM PACKING LIVE LOAD WASHERS NO LEVER HANDLE	1 - 1/4	64 - MULTIFILL (STANDARD)	14 - VENTED BALL
77 - FULL PORT BRONZE		2 - 3/8	21 - UHMWPE	24 - GRAPHITE PACKING
		3 - 1/2	35 - PTFE	27 - LATCH LOCK HANDLE
89 - STD. PORT CARBON WCB		4 - 3/4	65 - MULTIFILL & GRAPHITE STEM PACKING	57 - OXYGEN CLEANED
76 - STD. PORT CF8M SS		5 - 1		
		6 - 1-1/4		
		7 - 1-1/2		
		8 - 2		
		9 - 2-1/2		
		0 - 3		

EXAMPLE: 89-AR3-35 - Standard Port Carbon Steel with PTFE Seats

71AR BRONZE - STANDARD PORT

VALVE MODEL	LIST PRICE
71AR464	96.95
71AR564	117.00
71AR664	217.30
71AR764	237.33
71AR864	330.99
71AR964	1,042.44
71AR064	1,417.16

77D DIRECT MOUNT BRONZE, FULL PORT, W/ MPTFE SEATS NO HANDLE, NOT LIVE LOADED

VALVE MODEL	LIST PRICE
77D14301E	59.02
77D14401E	88.56
77D14501E	141.23
77D14701E	233.97
77D14801E	367.34

76AR STAINLESS STEEL - STANDARD PORT

VALVE MODEL	LIST PRICE
76AR164	99.64
76AR264	99.64
76AR364	97.77
76AR464	162.18
76AR564	200.35
76AR664	380.32
76AR764	398.66
76AR864	507.05
76AR964	1,757.33
76AR064	1,912.09

89AR CARBON STEEL - STANDARD PORT

VALVE MODEL	LIST PRICE
89AR164	76.88
89AR264	76.88
89AR364	76.88
89AR464	111.38
89AR564	140.52
89AR664	278.38
89AR764	355.26
89AR864	461.31
89AR964	1,033.95
89AR064	1,110.82

77AR BRONZE - FULL PORT

VALVE MODEL	LIST PRICE
77AR164	54.54
77AR264	54.54
77AR364	53.53
77AR464	100.32
77AR564	198.00
77AR764	272.53
77AR864	441.28



ACTUATION PRICE LIST

RACK & PINION NUMBERING SYSTEM

TABLE 1

A	S	0350	N	04	A	C	A
PREFIX	ACTION	SIZE	SEAL OPTION	SPRING SET	INSERTS	FAIL POSITION	REVISION
A	D - DOUBLE ACTING	0025	N - NITRILE	00 (DA)	A - STANDARD SQUARE	C - FAIL CLOSED (FC)	A
	S - SPRING RETURN	0040	H - FLOUROCARBON	02	B - WITHOUT INSERT	F - FAIL OPEN (FO)	
	K - KIT	0065	L - SILICONE	03		D - NO SPRING	
		0100		04			
		0150		05			
		0200		06			
		0350		08			

RACK & PINION NUMBERING SYSTEM

TABLE 2

A	S	1600	N	04	1	A	F
PREFIX	ACTION	SIZE	SEAL OPTION	SPRING SET	LIMIT STOP	INSERTS	"AS" MODEL ONLY
A	D - DOUBLE ACTING	0012	N - NITRILE	00 (DA)	0 - NONE**	A - STD. SQUARE	ADD SUFFIX "F" IF SPRING-TO-OPEN (I.E. FAIL OPEN), OTHERWISE, LEAVE BLANK
	S - SPRING RETURN	0600	(NORMAL TEMP RANGE, -4°-175°F)	01	(STD. ON SIZES 0012, 2500, & 4000)	B - WITHOUT	
	K - KIT	0950	H - FLOUROCARBON	02	1 - SINGLE ADJUSTABLE LIMIT STOP		
		1600	(HIGH TEMP RANGE, -4°-250°F)	03	(FOR SIZES 0025 THRU 1600 ONLY)		
		2500*	L - SILICONE	04	2 - DUAL ADJUSTABLE LIMIT STOPS		
		4000*	(LOW TEMP RANGE, -40°-175°F)	05	(FOR SIZES 0025 THRU 1600 ONLY)		
				06			
				07			
				08			
				10			
				12			
				14			

* No insert adapter options

** Optional double stroke adjustment plate is available for 2500 & 4000 (see price list)

RACK & PINION ACTUATORS

DOUBLE ACTING

PART NUMBER	ADJUSTABLE STOPS	LIST PRICE	PART # GUIDE
AD0012N000A	None	183.75	Table 2
AD0025N00ADB	Dual	218.49	Table 1
AD0040N00ADA	Dual	258.02	Table 1
AD0065N00ADA	Dual	326.57	Table 1
AD0100N00ADA	Dual	350.99	Table 1
AD0150N00ADA	Dual	442.81	Table 1
AD0200N00ADA	Dual	534.63	Table 1
AD0350N00ADA	Dual	710.14	Table 1
AD0600N002A	Dual	1310.37	Table 2
AD0950N001A	Single	1681.72	Table 2
AD0950N002A	Dual	1942.84	Table 2
AD1600N001A	Single	2617.14	Table 2
AD1600N00ADA	Dual	2961.14	Table 2
AD2500N000A	None	4155.27	Table 2
AD4000N000A	None	7120.58	Table 2

SPRING RETURN

PART NUMBER	ADJUSTABLE STOPS	LIST PRICE	PART # GUIDE
AD0012N000A	None	183.75	Table 2
AD0025N00ADB	Dual	218.49	Table 1
AD0040N00ADA	Dual	258.02	Table 1
AD0065N00ADA	Dual	326.57	Table 1
AD0100N00ADA	Dual	350.99	Table 1
AD0150N00ADA	Dual	442.81	Table 1
AD0200N00ADA	Dual	534.63	Table 1
AD0350N00ADA	Dual	710.14	Table 1
AD0600N002A	Dual	1310.37	Table 2
AD0950N001A	Single	1681.72	Table 2
AD0950N002A	Dual	1942.84	Table 2
AD1600N001A	Single	2617.14	Table 2
AD1600N00ADA	Dual	2961.14	Table 2
AD2500N000A	None	4155.27	Table 2
AD4000N000A	None	7120.58	Table 2



ACTUATION PRICE LIST

STANDARD TEMP

REPAIR KIT

CONTAINS NITRIL O-RING, BEARING & BUSHINGS

SPRING RETURN		DOUBLE ACTING	
REPAIR KIT	LIST PRICE	REPAIR KIT	LIST PRICE
AK0012NR	77.25	AK0012NR	77.25
AK0025NRS	79.24	AK0025NRD	87.15
AK0040NRS	89.16	AK0040NRD	99.05
AK0065NRS	104.99	AK0065NRD	109.44
AK0100NRS	108.95	AK0100NRD	109.61
AK0150NRS	120.84	AK0150NRD	134.41
AK0200NRS	132.75	AK0200NRD	148.59
AK0350NRS	138.71	AK0350NRD	129.32
AK0600NRS	261.50	AK0600NRD	243.53
AK0950NRS	334.81	AK0950NRD	368.50
AK1600NRS	425.97	AK1600NA	469.54
AK2500NR*	491.31	AK2500NR	491.31
AK4000NR*	848.76	AK4000NR	848.76

* KIT SERVICES BOTH SPRING RETURN & DOUBLE ACTING

SEAL KITS

"H" HIGH TEMP. KIT		"N" STD. TEMP. KIT		"L" LOW TEMP KIT	
REPAIR KIT	LIST PRICE	REPAIR KIT	LIST PRICE	REPAIR KIT	LIST PRICE
AK0012H	96.98	AK0012N	POA	AK0012L	47.03
AK0025H	102.44	AK0025N	POA	AK0025L	61.11
AK0040H	125.96	AK0040N	POA	AK0040L	98.15
AK0065H	154.50	AK0065NRS	104.99	AK0065L	98.15
AK0100H	184.74	AK0100N	96.98	AK0100L	101.83
AK0150H	209.93	AK0150N	POA	AK0150L	105.53
AK0200H	235.13	AK0200N	POA	AK0200L	109.27
AK0350H	356.06	AK0350N	POA	AK0350L	122.22
AK0600H	601.32	AK0600N	POA	AK0600L	190.46
AK0950H	680.68	AK0950N	POA	AK0950L	262.94
AK1600H	314.95	AK1600N	POA	AK1600L	299.95
AK2500H	1105.53	AK2500N	POA	AK2500L	322.19
AK4000H	1019.44	AK4000N	POA	AK4000L	972.09

SERVICE KITS

(FOR ALL APOLLO® RACK & PINION ACTUATORS W/PART NUMBERING ENDING IN -CA, -FA, & -DA)					
"H" HIGH TEMP. KIT		"N" STD. TEMP. KIT		"L" LOW TEMP KIT	
Service Kit	List Price	Service Kit	List Price	Service Kit	List Price
AK0025HA	277.06	AK0025NA	109.70	AK0025LA	191.54
AK0040HA	399.80	AK0040NA	122.73	AK0040LA	379.34
AK0065HA	451.87	AK0065NA	145.03	AK0065LA	379.34
AK0100HA	552.27	AK0100NA	150.62	AK0100LA	399.80
AK0150HA	580.19	AK0150NA	171.09	AK0150LA	399.80
AK0200HA	634.11	AK0200NA	182.22	AK0200LA	431.41
AK0350HA	764.26	AK0350NA	191.54	AK0350LA	483.45



ACTUATION PRICE LIST

TEMPERATURE OPTION ADDERS

ACTUATOR SIZE	HIGH TEMP. OPTION	ACTUATOR SIZE	LOW TEMP. OPTION
AD/AS0012	152.24	AD/AS0012	98.75
AD/AS0025	164.25	AD/AS0025	108.68
AD/AS0040	191.90	AD/AS0040	148.32
AD/AS0065	225.83	AD/AS0065	148.05
AD/AS0100	283.04	AD/AS0100	173.96
AD/AS0150	312.79	AD/AS0150	177.87
AD/AS0200	342.53	AD/AS0200	181.79
AD/AS0350	485.28	AD/AS0350	195.62
AD/AS0600	741.27	AD/AS0600	279.14
AD/AS0950	851.95	AD/AS0950	368.17
AD/AS1600	990.78	AD/AS1600	407.85
AD/AS2500	1193.30	AD/AS2500	431.59
AD/AS4000	1290.36	AD/AS4000	1127.79

"F" FAIL OPEN ADDERS

ACTUATOR SIZE	LIST PRICE
AS0012	134.50
AS0025	134.50
AS0040	177.40
AS0065	177.40
AS0100	177.40
AS0150	177.40
AS0200	226.15
AS0350	226.15
AS0600	226.15
AS0950	272.94
AS1600	272.94
AS2500	454.21



ACTUATION PRICE LIST

PNEUMATIC ACTUATORS ACUTORQUE - 316SS ACTUATOR

MODEL NO.	LIST PRICE	WT.
3SD04500	POA	5
3SD06000	POA	8
3SD08500	POA	14.25
3SD10500	POA	25.25
3SD12500	POA	49
3SD14000	POA	59
3SD17000	POA	117
3SD21000	POA	175
3SS04560	POA	5.5
3SS06060	POA	9
3SS08560	POA	17
3SS10560	POA	31
3SS12560	POA	65
3SS14060	POA	78
3SS17060	POA	155
3SS21060	POA	227

PNEUMATIC ACTUATORS G-SERIES BETTIS SCOTCH YOKE - DOUBLE ACTING

MODEL NO.	PART NO.	LIST PRICE
G01008	3TG100800	9,239.58
G01009	3TG100900	9,388.93
G01010	3TG101000	9,719.85
G01012	3TG101200	10,500.24
G01014	3TG101400	11,496.07
G2009	3TG200900	14,295.70
G2010	3TG201000	10,493.83
G2012	3TG201200	11,311.85
G2014	3TG201400	14,224.90
G2016	3TG201600	16,042.03
G3010	3TG301000	13,422.49
G3012	3TG301200	14,337.30
G3014	3TG301400	15,662.79
G3016	3TG301600	14,942.54
G3020	3TG302000	19,263.61



ACTUATION PRICE LIST

PNEUMATIC ACTUATORS

G-SERIES

BETTIS SCOTCH YOKE - SPRING RETURN

MODEL NO.	PART NO.	LIST PRICE
G01008-1	3TG100800	9,239.58
G01008-2	3TG100800	9,239.58
G01008-3	3TG100800	9,239.58
G01008-4	3TG100800	9,239.58
G01009-1	3TG100900	9,388.93
G01009-2	3TG100900	9,388.93
G01009-3	3TG100900	9,388.93
G01009-4	3TG100904	12,746.25
G01010-1	3TG101001	14,633.76
G01010-2	3TG101002	14,199.92
G01010-3	3TG101003	13,232.05
G01010-4	3TG101004	13,876.17
G01012-1	3TG101201	15,470.68
G01012-2	3TG101202	15,036.69
G01012-3	3TG101203	14,068.80
G01012-4	3TG101204	13,681.65
G01014-1	3TG101401	16,244.98
G01014-2	3TG101402	15,811.00
G01014-3	3TG101403	14,843.11
G01014-4	3TG101404	14,455.97
G2009-4, 3	3TG200904, 03	18,745.91
G2009-2, 1	3TG200901, 02	20,300.78
G2010-4, 3	3TG201004, 03	16,782.02
G2010-2	3TG201002	19,269.46
G2010-1	3TG201001	18,336.89
G2012-4, 3	3TG201204, 03	17,600.05

MODEL NO.	PART NO.	LIST PRICE
G2012-2	3TG201202	20,153.18
G2012-1	3TG201201	17,169.19
G2014-4, 3	3TG201404, 03	23,539.63
G2014-2	3TG201402	21,568.42
G2014-1	3TG201401	22,067.98
G2016-4, 3	3TG201604, 03	22,330.23
G2016-2	3TG201602	23,385.55
G2016-1	3TG201601	23,885.13
G3010-4	3TG301004	23,660.31
G3010-3	3TG301003	27,824.74
G3010-2	3TG301002	28,860.21
G3010-1	3TG301001	26,876.22
G3012-4	3TG301204	24,578.24
G3012-3	3TG301203	25,162.10
G3012-2	3TG301202	26,064.43
G3012-1	3TG301201	27,791.02
G3014-4	3TG301404	27,023.80
G3014-3	3TG301403	25,602.35
G3014-2	3TG301402	29,777.98
G3014-1	3TG301401	28,231.27
G3016-4	3TG301604	26,076.90
G3016-3	3TG301603	26,663.90
G3016-2	3TG301602	27,566.22
G3016-1	3TG301601	31,644.69
G3020-3	3TG302003	30,527.63
G3020-2	3TG302002	36,116.63
G3020-1	3TG302001	33,873.13



ACTUATION PRICE LIST

SOLENOIDS

AVC NAMUR DIRECT MOUNT, THREE & FOUR WAY, END MOUNTED COIL

PART NUMBER	VOLTAGE	ENCLOSURE RATING	ACTUATOR SIZE	LIST PRICE
3T8-411-40A	115 VAC	NEMA 4	0025 thru 4000	278.58
3T8-421-40A	12 VDC / 24 VAC	NEMA 4	0025 thru 4000	278.58
3T8-431-40A	24 VDC / 48 VAC	NEMA 4	0025 thru 4000	278.58
3T8-441-40A	220 VAC	NEMA 4	0025 thru 4000	278.58
3T8-711-40A	115 VAC	NEMA 7	0025 thru 4000	450.03
3T8-721-40A	12 VDC / 24 VAC	NEMA 7	0025 thru 4000	451.74
3T8-731-40A	24 VDC / 48 VAC	NEMA 7	0025 thru 4000	450.03
3T8-741-40A	220 VAC	NEMA 7	0025 thru 4000	450.03

Cv = 1.8

All include adapters to turn "NAMUR 90".

AVC MANIFOLD MOUNT NEMA 4 COIL

PART NUMBER	VOLTAGE	ENCLOSURE RATING	LIST PRICE
M-1079-00	24 VDC	NEMA 4	86.84
M-1089-00	12 VDC / 24 VAC	NEMA 4	88.12
M-1145-00	115 VAC	NEMA 4	85.44
M-1078-00	220 VAC	NEMA 4	82.64

AVC NAMUR DIRECT MOUNT, THREE & FOUR WAY, END MOUNTED COIL

PART NUMBER	VOLTAGE	ENCLOSURE RATING	ACTUATOR SIZE	LIST PRICE
M-1163-00	120 VAC	NEMA 4/4X	L4505AAWR-AA-GM209N	535.62
M-1164-00	120 VAC	NEMA 4/4X/7	L4505AAAB022-775	679.25

Cv = 4.5

Aluminum bodies, 1/2" NPT Pipe size, momentary manual override



ACTUATION PRICE LIST

SOLENOIDS ACCESSORIES

PART NUMBER	DESCRIPTION	LIST PRICE
I-4959-00	1/2" Conduit to Strain Relief Adapter	26.72
M-1150-00	1/2" Conduit Connector	19.17
M-1157-00	Strain relief Connector	14.95
M-1158-00	1/2" Lighted Conduit Connector	36.04
I-3849-00	1/4" NPT Breather/Muffler	35.68

PROXIMITY LIMIT SWITCHES FOR MANUAL VALVES

MODEL NO.	PART NO.	DESCRIPTION	LIST PRICE
12AD0	M-1059-00	2 Switches Without Indicator	456.65
14AD0	M-1072-00	4 Switches Without Indicator	721.04
12GD0	M-1160-00	4 Switches With Gold Contacts	582.37
12AD0	M-1161-00	2 Switches With Indicator	462.21
12RD0	M-1169-00	2 SPDT Reed Switches W/Indicator	669.01
42DD0	M-1196-00	2 DPDT Switches W/Indicator	972.72

EFFECTOR LIMIT SWITCHES FOR MANUAL VALVES MOUNTING KITS FOR MANUAL VALVES \$79.77

MODEL NO.	PART NO.	DESCRIPTION	LIST PRICE
IND2004DAROA/4/LS500SS	M-1166-00	4" Leads and 5 Pin Connector	719.17
IND2004DAROA	M-1167-00	6" Leads	574.98
E17105	M-1168-00	Puck with 2 Targets	96.13
IN0117	M-1176-00	Brad Harrison Connector	695.12

LOCKOUT-TAGOUT DEVICES

MODEL NO.	ACTUATOR SIZE	LIST PRICE
3TL4000	040/065	994.87
3TL5060	100/150	1,198.32
3TL6570	200	1,094.54
3TL8000	350/600	1,944.35
3TL9000	950	2,019.71

NEEDLE VALVE STROKING SPEED ADJUSTMENT

MODEL NO.	PART NO.	LIST PRICE
1/8 NPT Brass	W-6616-00	31.70
1/4 NPT Brass	W-6169-00	31.70
1/4 NPT Brass With Muffler	W-7120-00	43.43
1/4 NPT Brass ENC Plated W/Muffler	W-8345-00	31.85

FILTER REGULATOR & GAUGE - 0-150 PSIG

MODEL NO.	PART NO.	LIST PRICE
Norgren 1/4 NPT Auto Drain	W-7199-00	527.91
Norgren 3/8 NPT Auto Drain	W-7069-00	577.98



ACTUATION PRICE LIST

AE SERIES ACTUATOR

AE - XXX	-X	-XXX
OUTPUT TORQUE (LB. IN.)	VOLTAGE	OPTIONS
200	1 - 115 VAC	0 - NONE
400	2 - 24 VAC	A - ONE EXTRA SWITCH & CAM
600	3 - 220 VAC	B - TWO EXTRA SWITCHES & CAMS
800	4 - 12 VDC	C - THREE EXTRA SWITCHES & CAMS
1000	5 - 24 VDC	D - HEATER & THERMOSTAT
		F - MOTOR BRAKE (FOR BUTTERFLY VALVE) NO DC VOLTAGE OR 220 VAC
		H - TROPICAL HEATER (115 VAC) FOR PREVENTION OF CONDENSATE
		P - POSITIONER 4-20MA
		T - POSITION TRANSMITTER 4-20 MA
EXAMPLE: AE 2001-ADF - 115 VAC, With One Extra Switch & Cam, Heater & Thermostat and Motor Brake (For Butterfly Valve)		

APOLLO AE SERIES ACTUATORS

- Lubrication: Permanently lubricated gear train and bearings.
- Duty Cycle: Designed To Operate At 25% Duty Cycle At Temps Below 100°F. See Electrical Operation.
- Temperature Operating Range: 32°F to 150°F Standard -40°F to 150°F With Optional Heater & Thermostat
- Thermal Protection: Self-Resetting (AC Motors Only)
- Conduit Connections: (2) 1/2" - NPT female
- Direction of Travel: Clockwise to Close, Counterclockwise To Open (Position Indicator Shaft Only, Manual Override Shaft Operates Opposite)

AE ELECTRIC ACTUATORS

PART NO.	BREAKAWAY TORQUE	VOLTAGE	CYCLE TIME	LIST PRICE
AE20010	200 lb. in.	115 VAC	5.0 seconds	600.384
AE40010	400 lb. in.	115 VAC	10.0 seconds	714.255
AE60010	600 lb. in.	115 VAC	15.0 seconds	833.361
AE80010	800 lb. in.	115 VAC	20.0 seconds	993.747
AE100010	1000 lb. in.	115 VAC	25.0 seconds	1402.976

AE ELECTRIC ACTUATORS - VOLTAGE ADDERS

VOLTAGES	LIST PRICE
115 VAC	No Charge
220 VAC	89.44
24 VAC	178.83
12 VDC	89.44
24 VDC	89.44

AE ELECTRIC ACTUATORS - OPTIONS/ADDERS

OPTION	PART NO. *	LIST PRICE	DESCRIPTION
A	7835901	54.83	One Extra Switch & Cam**
B	7836001	109.73	Two Extra Switch & Cam**
C	7836101	164.56	Three Extra Switch & Cam**
D	78179801	241.12	24 VAC Heater & Thermostat
D	78171201	253.18	115 VAC Heater & Thermostat
D	78179901	241.12	230 VAC Heater & Thermostat
D	78180001	241.12	12 VDC Heater & Thermostat
D	78180101	241.12	24 VDC Heater & Thermostat
F	78174801	253.18	115 VAC Motor Brake
F	78174701	241.12	24 VAC Motor Brake
H	M124700	324.46	115 VAC Tropical Heater
P			4-20 mA Positioner
T			4-20 mA Position Transmitter
S			Selectable on/off timer (115/24 VAC, 12 VDC, & 230 VAC)

AE SERIES ACTUATOR

PRICING EXAMPLE

BASE ACTUATOR	VOLTAGE ADDER	OPTIONS ADDER			TOTAL
AE2001	1	A	D	F	AE2001ADF
	115 VAC	One Extra Switch & Cam	Heater & Thermostat	Motor Brake	
618.40	No Charge	56.47	260.77	260.77	1,196.41

- Kits Installed In The Field Will Void CSA Listings
- No Brake Kits Available For DC Voltages or 220 VAC
- Positioners for 12 VDC are not available
- * IF ORDERED SEPARATELY
- ** Not available with extra switches & cams (P + T options)



ACTUATION PRICE LIST

CS/CL SERIES ACTUATOR

ACTUATOR MODEL	TORQUE	ENCLOSURE	OPTIONS	DUTY CYCLE	VOLTAGE
CS XXX	600	W - NEMA IV	K (MOTOR BRAKE)	E - STANDARD	115 VAC
CL XXX	2500	W - NEMA IV	S2 (TWO SWITCHES)	E - STANDARD	230 VAC

CS/CL ELECTRIC ACTUATORS - EXTENDED DUTY CYCLE (75%)

PART NO.	BASIC ACTUATOR	VOLTAGE	DUTY CYCLE	LIST PRICE
3R87930A	CS150 WE	115 VAC	Extended Duty (75%)	1,458.27
3R87931A	CS300 WE	115 VAC	Extended Duty (75%)	1,559.69
3R87932A	CS600 WE	115 VAC	Extended Duty (75%)	1,637.87
3R88087B	CL1000 WE	115 VAC	Extended Duty (75%)	2,470.55
3R87981B	CL1500 WE	115 VAC	Extended Duty (75%)	2,977.61
3R88048B	CL2000 WE	115 VAC	Extended Duty (75%)	3,804.60
3R88096B	CL2500 WE	115 VAC	Extended Duty (75%)	4,145.00
3R88018B	CL3000 WE	115 VAC	Extended Duty (55%)	4,338.28

CS/CL ELECTRIC ACTUATORS - OPTIONS/ADDERS

OPTIONS	DESCRIPTION	CS ADDER	CL ADDER
230 VAC	230 VAC Motor 50/60 Hz	276.07	289.86
X	NEMA 4, 4X, 7, 9, CSA Listed	114.01	529.33
W	NEMA IV (Weather Proof), CSA Listed	N/C	N/C
E	APOLLO STD	N/C	N/C
H	Tropical Heater 90° - 150° F	442.53	464.65
S2	Two Auxiliary Switches SPDT	187.83	197.22
T	Heater And Thermostat	293.60	308.28
K	Motor Break	236.66	248.49
Z	Declutchable Handwheel Override	578.47	607.39
Control Options			
J	Speed Control/Timer Board	1,368.79	1,437.23

CS/CL SERIES ACTUATOR

PRICING EXAMPLE

BASE ACTUATOR	OPTIONS ADDER		TOTAL
CS150WE	X	T	CS150XTE
	NEMA 4/4X/7/9	Heater & Thermostat	
1,502.02	117.43	302.40	1,921.85

- Contact Actuator Customer Service for Applications Not Covered by Indicated Options
- Option Availability and Prices Are Subject to Change Without Notice
- All Models Contain an Aluminum Enclosure
- Duty Cycle for 3000 in-lb Model is 55%



ACTUATION PRICE LIST

CS/CL SERIES ACTUATOR

NEW CONTINUOUS DUTY CYCLE UNIVERSAL POWER	3RACS & 3RACL SERIES CONTINUOUS DUTY ELECTRIC ACTUATOR								
	MODEL NUMBER								
	ORDER CODE	3RACS	3RACS	3RACS	3RACL	3RACL	3RACL	3RACL	3RACL
Breakaway Torque		150	300	600	1000	1500	2000	2500	3000
List Price		1,543.07	1,804.72	2,109.87	2,569.22	3,471.45	4,213.78	3,575.598	4,340.198
VOLTAGE									
UNIVERSAL POWER: 12/24 AC/DC OR 115/230AC			-						
ENCLOSURE OPTIONS									
Nema 4/4x	W		-						
Nema 4/4x/7&9	X		122.63				609.99		
ELECTRONIC BOARD OPTIONS (MUST SELECT ONLY ONE) SEE NOTE 1									
ON/OFF POSITIONER BOARD	U2		1,699.32				1,699.32		
ON/OFF POSITIONER BOARD W/ BATTERY BACK-UP	UL2		2,126.11				N/A		
ON/OFF POSITIONER BOARD W/ BATTERY BACK-UP	UL3		N/A				2,024.86		
GENERAL OPTIONS (IF DESIRED)									
DECLUTCHING HANDWHEEL	Z		608.48				608.48		
CONTINUOUS DUTY CYCLE (100%)			STANDARD				STANDARD		

MODEL NUMBER SEQUENCE	SERIES	TORQUE	ENCLOSURE	BOARD OPTION	GENERAL OPTION(S) (IF APPLICABLE)	UNIVERSAL VOLTAGE	TOTAL LIST PRICE
3RACS150WU2Z	3RACS	150	W	U2	Z		
List Price		\$1,620.23	\$-	\$1,784.29	\$638.90	\$-	\$3,849.78

MODEL NUMBER SEQUENCE	SERIES	TORQUE	ENCLOSURE	BOARD OPTION	GENERAL OPTION(S) (IF APPLICABLE)	UNIVERSAL VOLTAGE	TOTAL LIST PRICE
3RACL1500XUL3	3RACL	1500	X	UL3			
List Price		\$3,575.60	\$628.29	\$2,085.61	\$-	\$-	\$6,289.49

PRICES SUBJECT TO CHANGE WITHOUT NOTICE
GENERAL SPECIFICATIONS

- ALL MODELS CONTAIN AN ALUMINUM ENCLOSURE.
- ALL MODELS HAVE TWO 3/4" NPT CONDUIT OPENINGS; 3/4" TO 1/2" REDUCING BUSHINGS INCLUDED.
- ALL MODELS INCLUDE A VISUAL POSITION INDICATOR AND WRENCH-OPERATED MANUAL OVERRIDE SHAFT.
- 150 - 600 IN-LB MODELS ARE SUPPLIED WITH A 3/4" FEMALE SQUARE DRIVE; 1000 - 3000 IN-LB MODELS ARE SUPPLIED WITH A 22mm FEMALE SQUARE DRIVE.
- CSA CERTIFICATION WITH (C US) MARKING IS STANDARD ON ALL MODELS.

Notes:
• Must select only one board option; all board options can be configured for On/Off or Modulating operation, and include a holding Brake feature, 4-20mA or 0-10VDC Position Feedback, Two Auxiliary Limit Switches, and a built-in Heater/Thermostat.

THIS PRICE SHEET IS FOR GENERAL INFORMATION PURPOSES ONLY. PRICES AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



ACTUATION PRICE LIST

LB SERIES ACTUATOR INTERMITTENT SERVICE

QUARTER TURN REVERSIBLE WITH 30% DUTY CYCLE, 1PH/60HZ/115 VAC MOTORS CSA APPROVED. NEMA 4
OTHER SIZES AVAILABLE WITH TORQUES UP TO 500,000 IN. LB. CONTACT CUSTOMER SERVICE FOR SPECIFICS AND PART NUMBERS.

PART NO.	MODEL NO.	TORQUE LB/IN	SPEED SEC/90°	LIST PRICE
3R AB0 5AF2	OA3	310	5	POA
3R AD0 5AF	OA8	885	5	\$5,438.95
3R AD2 5AF			25	
3R AE1 5AF	OA15	1350	15	
3R AE2 5AF			25	\$2,076.20

3R AG1 5AF	AT25	2250	15	\$4,428.64
3R AG2 5AF			25	POA
3R AG5 0AF			50	\$4,469.70
3R AH2 5AF	AT50	4500	25	POA
3R AT5 0AF	AT100	8850	50	POA

LB SERIES ACTUATOR

CLASS III MODULATING SERVICE

QUARTER TURN REVERSIBLE WITH 50% DUTY CYCLE 1PH/60HZ/115VAC MOTOR, SINGLE 1000 OHM - 1/2% LINEARITY - 4 WATT POTENTIOMETER AND GAM ELECTRONIC POSITIONER TO ACCEPT A 4-20 MADC INPUT SIGNAL FOR CONTINUOUS MODULATING SERVICE. CSA APPROVED. NEMA 4.

PART NO.	MODEL NO.	TORQUE LB/IN BREAK	RUN	SPEED SEC/90°	LIST PRICE
3R ADM 25F	OA8M	885	520	25	POA
3R ADM 50F		885	520	50	POA
3R AEM 25F	OA15M	1350	780	25	POA

QUARTER TURN REVERSIBLE WITH 50% DUTY CYCLE 1PH/60HZ/115VAC MOTOR, SINGLE 1000 OHM - 1/2% LINEARITY - 4 WATT POTENTIOMETER AND GAM ELECTRONIC POSITIONER TO ACCEPT A 4-20 MADC INPUT SIGNAL FOR CONTINUOUS MODULATING SERVICE. CSA APPROVED. NEMA 4. 1200 STARTS PER HOUR

PART NO.	MODEL NO.	TORQUE LB/IN BREAK	RUN	SPEED SEC/90°	LIST PRICE
3R AGM 25F	AT25M	2250	1300	25	POA
3R AGM 50F		2250	1300	50	POA
3R AHM 25F	AT50M	4500	2200	25	POA
3R ATM 50F	AT100M	10,600	5200	50	POA

OTHER SIZES AVAILABLE WITH TORQUES UP TO 500,000 IN. LB. CONTACT CUSTOMER SERVICE FOR SPECIFICS AND PART NUMBERS.

LB SERIES ACTUATOR

ACCESSORIES

THE FOLLOWING IS A LIST OF AVAILABLE ACCESSORY OPTIONS FOR USE WITH THE BERNARD LB-SERIES ELECTRIC ACTUATORS. LISTED ACCESSORY PRICES ARE TO BE ADDED TO ACTUATOR LIST PRICES.

CONTROL COMPARTMENT OPTIONS	QA	AT	BT
Space Heater	POA	POA	POA
Two Aux. SPDT Position Switches	POA	POA	POA
For Six Total SPDT Position Switches	POA	POA	POA
Standard Feedback Potentiometer Single - 1000 ohm	POA	POA	POA
Control Compartment Options			
TAM Position Transmitter w/1000 ohm Potentiometer	POA	POA	POA

DESCRIPTIONS

- OA Models are complete with self-locking worm gear output drive, adjustable mechanical position stops, two SPDT travel limit switches, internal terminal strip, mechanical dial position indicator and declutchable manual override handwheel.
- AT Models are complete with all features described for OA Models plus two auxiliary SPDT switches, two SPDT mechanical torque limit switches, control compartment space heater, and declutchable manual override handwheel with motor lockout switch.

220 VAV 60HZ / 440 VAC 3 PHASE - ADDERS

MODEL NO.	LIST PRICE
OA8	POA
OA15	POA
AT25	POA
AT50	POA
AT100	POA

DESCRIPTIONS

- OA Models are complete with self-locking worm gear output drive, adjustable mechanical position stops, two SPDT travel limit switches, internal terminal strip, mechanical dial position indicator and manual override handwheel.
- AT Models are complete with all features described for OA Models plus two auxiliary SPDT switches, two SPDT mechanical torque limit switches, control compartment space heater, and declutchable manual override handwheel with motor lockout switch.

- Please be aware that not all the listed accessories can be made available in a single actuator due to physical limitations or electrical requirements. If you have any questions about the availability on combinations of accessories, please contact the factory prior to placement of an order.

STONEL LIMIT SWITCHES LIMIT SWITCHES

PART NO.	STONEL MODEL NO.	DESCRIPTION	LIST PRICE
3RLS201	QX2VB02SDA	STONEL LSA, 2 SPDT MECH. SW	917.20
3RLS203	QX2SB02SDA	STONEL LSA, 2 SPDT MAXX LED SW	1,399.51
3RLS217	QX2HB02SDA	STONEL LSA, 2 SPDT MAXX SW	1,396.47
3RLS220	QG2VP02SDA	STONEL LSA, 2 SPDT MECH. SW	690.06
3RLS221	QN2PP02SDA	STONEL LSA, 2 SPST MAXX SW	1,148.02
3RLS223	QX33B02SDA	STONEL LSA, 2 SST SEN DUAL MOD	1,466.29
3RLS225	QN2SP02SDA	STONEL LSA, 2 SPDT MAXX LED SW	139.12
3RLS232	QX2VB02SDA-E	STONEL LSA, 2 SPDT MECH SW	911.40
3RLS234	QX8YB03SDA	STONEL LSA, 3 SPDT MAXX LED SW	2,266.83
3RLS237	QG4VP02SDA	STONEL LSA, 4 SPDT MECH SW	961.53
3RLS238	QX2HB02SDA	STONEL LSA, 2 SPDT MAXX SW	1,396.47
3RLS239	QX2VB02SDA-E	STONEL LSA, 2 SPDT MECH SW	961.53
3RLS240	QX4VB02SDA-E	STONEL LSA, 4 SPDT MECH SW	1,095.90
3RLS241	QG2VP02SNA	LIMIT SW., STONEL SR2VB2LNS	614.21
3RLS242	QG2VP02SDA	STONEL LSA, 2 SPDT MECH SW	614.21
3RLS243	QG2VP02SDA	STONEL LSA, 2 SPDT MECH SW	654.09
3RLS244	QN2SP02SDA	STONEL LSA, 2 SPDT MAXX LED SW	1,211.75
3RLS245	QX4VB02SDA-E	STONEL LSA, 4 SPDT MECH. SW	1,237.10
3RLS247	QX5VB02SAA	STONEL LSA, POS TRANS W/2 SPDT	2,749.49
3RLS248	QN44B02SDA	STONEL LSA, INTRINSICALLY SAFE	1,420.72
3RLS200		INDICATOR ONLY	91.54

NAMUR MOUNTING KITS

MODEL NO.	STAINLESS STEEL	LIST PRICE
0025/0350	6300196	134.46
0600/4000	6300197	134.46

MONITEUR LIMIT SWITCHES LIMIT SWITCHES

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE
3TLS302	FMYB-5120	NEMA 4/Indicator/2 SPDT Mech.	414.61
3TLS306	FFNB-5120	NEMA 4/Flat Cover/2 SPDT Mech.	385.40
3TLS301	AMYB-5120	NEMA 7/Indicator/2 SPDT Mech.	537.20
3TLS305	AFNB-5120	NEMA 7/Flat Cover/2 SPDT Mech.	505.63
3TLS303	AMYB-5220	NEMA 7/Indicator/2 SPDT Prox.	905.12
3TLS307	AFNB-5220	NEMA 7/Flat Cover/2 SPDT Prox.	871.84
3TLS304	FMYB-5220	NEMA 4/Indicator/2 SPDT Prox.	606.08

MOUNTING BRACKETS

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE
6300212	0012	Stainless Steel	117.63
6300213	0025 - 0350	Stainless Steel	117.63
6300214	0600 - 4000	Stainless Steel	117.63



ACTUATION PRICE LIST

DYNATORQUE MANUAL OVERRIDE

PART NO.	ACTUATOR SIZE	DESCRIPTION	LIST PRICE
3tdh4000	AD0040/AD0065 w/ Adapter Plate	DT3SD, Override Per Above Specifications	1,146.65
3tdh5000	AD0100 & AD0150	DT3SD, Override Per Above Specifications	1,048.68
3tdh7000	AD0200	DT6SD, Override Per Above specifications	1,560.09
3tdh8000	AD0350/AD0600	DT12SD, Override Per Above Specifications	1,693.76
3tdh9000	AD0950	DT12SD, Override Per Above Specifications	2,231.30

DYNATORQUE sandwich mounting worm declutchable manual override (sd) for direct mount to the Conbraco double acting unit indicated, bottom surface of the override to match the bottom of the pneumatic actuator. Unit includes operator, driver and handwheel. All units coated with one coat yellow enamel.

PART NO.	ACTUATOR SIZE	DESCRIPTION	LIST PRICE
3tsh4000	AS0040/AS0065 w/ Adapter Plate	DT3SRD, Override Per Above Specifications	1,146.65
3tsh5000	AS0100/AS0150	DT3SRD, Override Per Above Specifications	1,048.68
3tsh7000	AS0200	DT6SRD, Override Per Above Specifications	1,560.09
3tsh8000	AS0350/AS0600	DT12SRD, Override Per Above Specifications	1,685.72
3tsh9000	AS0950	DT12SRD, Override Per Above Specifications	2,231.30

DYNATORQUE sandwich mounting worm non-declutchable manual override (srd) for direct mount to the spring return Conbraco unit indicated, bottom surface of the override to match the bottom of the pneumatic actuator. Unit includes operator, driver and handwheel. All units coated with one coat yellow enamel.

PMV PNEUMATIC POSITIONERS

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE***
3T-200-01	P-2000	Double Acting, Electro-Pneumatic*	3,053.53
3T-202-01	P-2020	Double Acting, Electro-Pneumatic**	2,762.06
3T-500-01	P5	Double Acting, Hi Capacity & Gain	1,380.13
3T-250-01	EP5	Electro Pneumatic, Hi Capacity & Gain	3,195.29
3T-250-02	EP5-IS	Double Acting, Hi Capacity & Gain, Explosion Proof	4,668.42
CX04420		Flex Hose Kit to Size 032-0350	46.00
CX04421		Flex Hose Kit to Size 0600-4000	40.93

* Normal Capacity

** High Capacity

*** Accessories such as pressure gauges are available but are not included in this price. Limit switches, transmitters, and potentiometers are available. Please consult the factory for pricing.

PMV MOUNTING KIT

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE
32/0012	63-002-01	Stainless Steel	92.00
0025-0350	63-001-89	Stainless Steel	92.00
0600-4000	63-001-91	Stainless Steel	92.00

VRC POSITIONERS

PART NO.	MODEL NO.	LIST PRICE
3PV-073-00	VP 700	915.77
3PV17300	VE 700	2,047.00

STANDARD FEATURES INCLUDE: Nema 4X enclosure with captive cover and mounting bolts, flat lens indicator, linear position feedback cam, standard flow spool valve. Note: Consult factory for additional part numbers.

VRC POSITIONER OPTIONS

OPTIONS	LIST PRICE
90° Dome Position Indicator	81.58
Square Root Cam	68.04
Square Cam	68.04
0-60° Linear Cam	68.04
Equal Percent Cam	68.04
Custom	POA
Tangent Linear Adaption Cam	68.04
0-45° Linear Cam	68.04
Maximum Flow Spool Valve (3TD 80, 90, / 3TS 90)	54.40
Brass Gauges	122.40
Stainless Gauges	475.98
4-20 MA Position Transmitter	1,019.95
2 S.P.D.T. Mechanical Limit Switches	435.20
2 S.P.D.T. Proximity Limit Switches	651.23

VRC POSITIONER BRACKETS

PART NO.	MODEL NO.	LIST PRICE
63-002-28	0025-0350	132.96
63-002-29	0600-4000	263.79
CX04422	Flex Hose Kit to Size 032-0350	46.00
CX03347	Flex Hose Kit to Size 0600-4000	48.31



ACTUATION PRICE LIST

STANDARD MOUNTING

FACTORY MOUNTING & TEST

ACTUATOR MOUNTED PARALLEL TO PIPELINE DOUBLE ACTING

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	LIST PRICE
78-999-98	¼" - 3"	67.12
78-999-97	4" - 6"	89.45
78-999-96	8"	111.83
78-999-94	10" - 12"	201.30

ACTUATOR MOUNTED PARALLEL TO PIPELINE SPRING RETURN

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	AIR STROKE	SPRING STROKE	VALVE AIR POSITIONER LOSS OF AIR	LIST PRICE
78-999-98	¼" - 3"	C-CW	CW	Closed	67.12
78-999-97	4" - 6"	C-CW	CW	Closed	89.45
78-999-96	8"	C-CW	CW	Closed	111.83
78-999-94	10" - 12"	C-CW	CW	Closed	201.30

ALTERNATE MOUNTING

FACTORY MOUNTING & TEST

ACTUATOR MOUNTED PARALLEL TO PIPELINE SPRING RETURN

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	AIR STROKE	SPRING STROKE	VALVE AIR POSITIONER LOSS OF AIR	LIST PRICE
78-999-98V	¼" - 3"	C-CW	CW	Open (CW)	67.12
78-999-97V	4" - 6"	C-CW	CW	Open (CW)	89.45
78-999-96V	8"	C-CW	CW	Open (CW)	111.83
78-999-94V	10" - 12"	C-CW	CW	Open (CW)	201.30

"V" Suffix: The fully open and fully closed Indicator will be correct; however during cycling, the indicator will rotate "CW to Open" and "C-CW to Close". Do Not use with valves limited to travel within one quadrant (e.g. butterfly valve with integral travel stop). Also see factory mounting number with "C" suffix.

ACTUATOR MOUNTED PARALLEL TO PIPELINE SPRING RETURN

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	AIR STROKE	SPRING STROKE	VALVE AIR POSITIONER LOSS OF AIR	LIST PRICE
78-999-98C	¼" - 3"	CW	C-CW	Open (C-CW)	67.12
78-999-97C	4" - 6"	CW	C-CW	Open (C-CW)	89.45
78-999-96C	8"	CW	C-CW	Open (C-CW)	111.83
78-999-94C	10" - 12"	CW	C-CW	Open (C-CW)	201.30

"C" Suffix: Piston racks are inverted inside the actuator (changed to C-CW = Fail open). Use Only with actuator models (0600 to 4000) having "1A" suffix.

ACTUATOR MOUNTED PERPENDICULAR TO PIPELINE SPRING RETURN

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	AIR STROKE	SPRING STROKE	VALVE AIR POSITIONER LOSS OF AIR	LIST PRICE
78-999-98P	¼" - 3"	C-CW	CW	Open (CW)	67.12
78-999-97P	4" - 6"	C-CW	CW	Open (CW)	89.45
78-999-96P	8"	C-CW	CW	Open (CW)	111.83
78-999-94P	10" - 12"	C-CW	CW	Open (CW)	201.30

The final location of the Indicator will be correct; however during cycling, the indicator will rotate CW to Open and C-CW to Close. Do not use with valves having travel stops (e.g. butterfly valve with integral travel stop).

ACTUATOR MOUNTED PERPENDICULAR TO PIPELINE SPRING RETURN

FACTORY MOUNTING	APOLLO BALL VALVE SIZE	AIR STROKE	SPRING STROKE	VALVE AIR POSITIONER LOSS OF AIR	LIST PRICE
78-999-98CP	¼" - 3"	C-CW	CW	Closed (CW)	67.12
78-999-97CP	4" - 6"	C-CW	CW	Closed (CW)	89.45
78-999-96CP	8"	C-CW	CW	Closed (CW)	111.83
78-999-94CP	10" - 12"	C-CW	CW	Closed (CW)	201.30



ACTUATION PRICE LIST

TOP ENTRY VALVE MOUNTING KITS

Valve Size (In.)	EXTENDED BONNETS FLANGE MOUNT & BONNET MOUNT ADD \$20 LIST TO BELOW IF LIVE LOAD PACKING IS INVOLVED	EXTENDED KIT WITH HEAT SHIELD (200°-500°) PNEUMATICS FLANGE MOUNT & BONNET MOUNT	EXTRA EXTENDED KIT WITH HEAT SHIELD (500°+) PNEUMATICS (250°-400°) ELECTRICS FLANGE MOUNT & BONNET MOUNT
1/2-1	251.29	350.83	430.78
1-1/2	260.25	387.70	454.11
2	283.60	412.85	497.19
3	348.21	529.50	619.24
4	484.62	619.24	753.86
6	831.05	1019.51	1130.81
8	962.08	1216.97	1394.65
10	1084.13	1276.18	1450.29

BUTTERFLY VALVE FACTORY MOUNTING & TEST

Valve Size (in)	Factory Mounting	List Price
2" thru 12"	78-999-91	89.45
14" thru 24"	78-999-92	201.30

MISC TAGGING

DESCRIPTION	LIST PRICE
A. Paper Tags	1.50 net ea.
B. Soft Aluminum Tags	2.99 net ea.
C. Stainless Steel Tags	4.79 net ea.
D. Customer Supplied Tags	1.50 net ea.

CONTACT CUSTOMER SERVICE for details and limitations
\$25.00 minimum billing

Since the inception in 1975, Aalberts is where technology matters and real progress can be made - humanly, financially and environmentally. At Aalberts, we create mission-critical products surrounding valve and connection technology supporting our brand, "Apollo".

The manufacturing of Consolidated Brass Company (later called Conbraco) began in 1928, in Detroit, Michigan with a focus on ball cocks, air cocks and similar products. In 1955, the manufacturing operation moved to the Carolinas spanning North and South Carolina with 3 facilities. In 2010, Aalberts, a global Dutch company, purchased Conbraco. Today the "Apollo" brand is manufactured under the company name, Aalberts integrated piping systems, in 3 locations throughout South Carolina. Over the last 90 years the product portfolio has continued to grow to encompass ball valves, butterfly valves, safety relief valves, control valves, mixing valves and backflow preventors.

These systems are applicable for key verticals such as residential, commercial, industrial, and utility. Our products are designed and developed by our team of innovators and engineers. Our design services team can assist in helping you determine the best techniques for your application with our products. We are the only company that truly offers customers a complete solution every time that is made and sourced from the same organization.

Don't just buy products, buy solutions.

