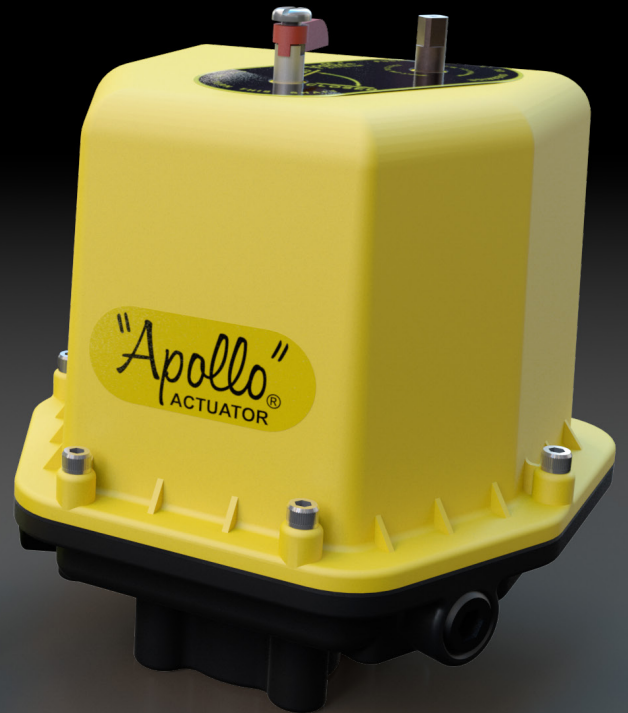


"Apollo"® Valves

Actuation



price list

aalberts-ips.us
customer service 704.841.6000
ACPL-0126



integrated
piping systems



ACTUATION PRICE LIST

Apollo Actuator Ready 2-Piece Ball Valves 3

Pneumatic Actuators

- AD (Double Acting) & AS (Spring Return)
- Apollo Rack & Pinion Actuator .5
- AD/AS Repair Kits & Seal Kits5-6
- Bettis Scotch Yoke (G-Series)7-8

Solenoids 9-10

Electric Actuators

- AE Series Apollo Electric Actuator11-12
- CS & CL Electric Actuators13
- LB Series14

Accessories

- Limit Switches15
- Manual Overrides16
- Pneumatic Positioners17
- Factory Actuator Mounting18-19
- Miscellaneous Tagging Charges19



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		
LIVE LOAD WASHERS STANDARD ON ALL MODELS				

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

71AR BRONZE - STANDARD PORT

VALVE MODEL	LIST PRICE
71AR464	\$132.75
71AR564	\$160.17
71AR664	\$297.51
71AR764	\$324.97
71AR864	\$453.19
71AR964	\$1,427.33
71AR064	\$1,940.42

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

VALVE MODEL	LIST PRICE
77D14301E	\$80.82
77D14501E	\$193.37
77D14701E	\$320.37
77D14801E	\$502.98

76AR STAINLESS STEEL - STANDARD PORT

VALVE MODEL	LIST PRICE
76AR164	\$122.70
76AR264	\$122.70
76AR364	\$120.40
76AR464	\$199.72
76AR564	\$246.71
76AR664	\$468.33
76AR764	\$490.93
76AR864	\$624.40
76AR964	\$2,164.02
76AR064	\$2,354.61

77AR BRONZE - FULL PORT

VALVE MODEL	LIST PRICE
77AR164	\$74.66
77AR264	\$74.66
77AR364	\$73.30
77AR464	\$137.36
77AR564	\$271.11
77AR764	\$373.17
77AR864	\$604.22



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
AD0012N00ADB	None	\$219.10
AD0025N00ADB	Dual	\$271.37
AD0040N00ADA	Dual	\$320.47
AD0065N00ADA	Dual	\$405.62
AD0100N00ADA	Dual	\$435.93
AD0150N00ADA	Dual	\$549.98
AD0200N00ADA	Dual	\$664.04
AD0350N00ADA	Dual	\$882.02
AD0600N00ADA	Dual	\$1,553.55
AD0950N00ADA	Dual	\$2,464.05
AD1600N00ADA	Dual	\$3,677.84
AD2500N00ADA	None	\$5,686.89
AD4000N00ADA	None	\$9,286.23

SPRING RETURN

PART NUMBER	ADJUSTABLE STOPS	LIST PRICE
AS0012N02ACB	None	\$269.09
AS0025N04ACB	Dual	\$333.29
AS0040N04ACA	Dual	\$397.84
AS0065N04ACA	Dual	\$501.47
AS0100N04ACA	Dual	\$552.47
AS0150N04ACA	Dual	\$729.66
AS0200N04ACA	Dual	\$857.24
AS0350N04ACA	Dual	\$1,241.58
AS0600N04ACA	Single	\$2,173.87
AS0950N04ACA	Dual	\$3,342.14
AS1600N04ACA	Single	\$5,892.56
AS2500N04ACA	None	\$7,585.34
AS4000N04ACA	None	\$12,310.63
AD4000N000A	None	\$7,120.58



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	\$99.79	AK0012NR	\$99.79
AK0025NRS	\$102.36	AK0025NRD	\$112.56
AK0040NRS	\$115.15	AK0040NRD	\$127.95
AK0065NRS	\$135.60	AK0065NRS	\$135.60
AK0100NRS	\$140.72	AK0100NRS	\$140.72
AK0150NRS	\$156.07	AK0150NRD	\$173.62
AK0200NRS	\$171.48	AK0200NRD	\$191.94
AK0350NRS	\$179.18	AK0350NRS	\$179.18
AK0600NRS	\$337.79	AK0600NRS	\$337.79
AK0950NRS	\$432.47	AK0950NRD	\$475.99
AK1600NRS	\$550.24	AK1600NA	\$1,420.89
AK2500NR*	\$634.64	AK2500NR	\$634.64
AK4000NR*	\$1,096.36	AK4000NR	\$1,096.36

* 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
AK0012HRS	POA	AK0012NRS	POA	AK0012LRS	\$60.76
AK0025HRS	POA	AK0025NRS	\$102.36	AK0025LRS	\$72.17
AK0040HRS	POA	AK0040NRS	\$115.15	AK0040LRS	\$115.91
AK0065HRS	POA	AK0065NRS	\$135.60	AK0065LRS	\$115.91
AK0100HRS	\$779.40	AK0100NRS	\$140.72	AK0100LRS	\$131.52
AK0150HRS	\$1,291.38	AK0150NRS	\$156.07	AK0150LRS	\$124.64
AK0200HRS	\$358.29	AK0200NRS	\$171.48	AK0200LRS	\$129.04
AK0350HRS	POA	AK0350NRS	\$179.18	AK0350LRS	\$157.88
AK0600HRS	POA	AK0600NRS	\$337.79	AK0600LRS	\$246.03
AK0950HRS	\$2,896.17	AK0950NRS	\$432.47	AK0950LRS	\$310.53
AK1600HRS	\$2,385.62	AK1600NRS	\$550.24	AK1600LRS	\$387.45
AK2500HRS	POA	AK2500NRS	\$634.64	AK2500LRS	\$416.17
AK4000HRS	POA	AK4000NRS	POA	AK4000LRS	\$1,255.66

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	\$357.88	AK0025NA	\$141.70	AK0025LA	\$247.42
AK0040HA	\$516.43	AK0040NA	\$158.53	AK0040LA	\$490.01
AK0065HA	\$583.70	AK0065NA	\$187.34	AK0065LA	\$490.01
AK0100HA	\$713.38	AK0100NA	\$194.57	AK0100LA	\$516.43
AK0150HA	\$749.43	AK0150NA	\$221.00	AK0150LA	\$516.43
AK0200HA	\$819.09	AK0200NA	\$235.36	AK0200LA	\$557.27
AK0350HA	\$987.20	AK0350NA	\$247.42	AK0350LA	\$624.47



ACTUATION PRICE LIST

TEMPERATURE OPTION ADDERS

ACTUATOR SIZE	HIGH TEMP. OPTION	ACTUATOR SIZE	LOW TEMP. OPTION
AD/AS0012	\$196.65	AD/AS0012	\$127.55
AD/AS0025	\$212.17	AD/AS0025	\$140.38
AD/AS0040	\$247.88	AD/AS0040	\$191.59
AD/AS0065	\$291.71	AD/AS0065	\$191.24
AD/AS0100	\$365.61	AD/AS0100	\$224.71
AD/AS0150	\$404.03	AD/AS0150	\$229.76
AD/AS0200	\$442.46	AD/AS0200	\$234.82
AD/AS0350	\$626.84	AD/AS0350	\$252.69
AD/AS0600	\$957.52	AD/AS0600	\$360.57
AD/AS0950	\$1,100.48	AD/AS0950	\$475.57
AD/AS1600	\$1,279.80	AD/AS1600	\$526.82
AD/AS2500	\$1,541.40	AD/AS2500	\$557.49
AD/AS4000	\$1,666.79	AD/AS4000	\$1,456.79

"F" FAIL OPEN ADDERS

ACTUATOR SIZE	LIST PRICE
AS0012	\$173.74
AS0025	\$173.74
AS0040	\$229.16
AS0065	\$229.16
AS0100	\$229.16
AS0150	\$229.16
AS0200	\$292.12
AS0350	\$292.12
AS0600	\$292.12
AS0950	\$352.56
AS1600	\$352.56
AS2500	\$586.71



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	\$11,934.94
G01009	3TG100900	\$12,127.86
G01010	3TG101000	\$12,555.31
G01012	3TG101200	\$13,563.36
G01014	3TG101400	\$14,849.69
G2009	3TG200900	\$18,466.02
G2010	3TG201000	\$13,555.07
G2012	3TG201200	\$14,611.73
G2014	3TG201400	\$18,374.58
G2016	3TG201600	\$20,721.79
G3010	3TG301000	\$17,338.08
G3012	3TG301200	\$18,519.76
G3014	3TG301400	\$20,231.92
G3016	3TG301600	\$19,301.56
G3020	3TG302000	\$24,883.17



ACTUATION PRICE LIST

PNEUMATIC ACTUATORS

G-SERIES

BETTIS SCOTCH YOKE - SPRING RETURN

MODEL NO.	PART NO.	LIST PRICE
G01008-1	3TG100800	\$11,934.94
G01008-2	3TG100800	\$11,934.94
G01008-3	3TG100800	\$11,934.94
G01008-4	3TG100800	\$11,934.94
G01009-1	3TG100900	\$12,127.86
G01009-2	3TG100900	\$12,127.86
G01009-3	3TG100900	\$12,127.86
G01009-4	3TG100904	\$16,464.57
G01010-1	3TG101001	\$18,902.70
G01010-2	3TG101002	\$18,342.31
G01010-3	3TG101003	\$17,092.09
G01010-4	3TG101004	\$17,924.12
G01012-1	3TG101201	\$19,983.77
G01012-2	3TG101202	\$19,423.18
G01012-3	3TG101203	\$18,172.94
G01012-4	3TG101204	\$17,672.85
G01014-1	3TG101401	\$20,983.95
G01014-2	3TG101402	\$20,423.37
G01014-3	3TG101403	\$19,173.13
G01014-4	3TG101404	\$18,673.05
G2009-4, 3	3TG200904, 03	\$24,214.44
G2009-2,1	3TG200901, 02	\$26,222.90
G2010-4, 3	3TG201004, 03	\$21,677.65
G2010-2	3TG201002	\$24,890.73
G2010-1	3TG201001	\$23,686.11
G2012-4, 3	3TG201204, 03	\$22,734.32

MODEL NO.	PART NO.	LIST PRICE
G2012-2	3TG201202	\$26,032.24
G2012-1	3TG201201	\$22,177.76
G2014-4, 3	3TG201404, 03	\$30,406.58
G2014-2	3TG201402	\$27,860.33
G2014-1	3TG201401	\$28,505.63
G2016-4, 3	3TG201604, 03	\$28,844.38
G2016-2	3TG201602	\$30,207.56
G2016-1	3TG201601	\$30,852.87
G3010-4	3TG301004	\$30,562.47
G3010-3	3TG301003	\$35,941.75
G3010-2	3TG301002	\$37,279.28
G3010-1	3TG301001	\$34,716.51
G3012-4	3TG301204	\$31,748.17
G3012-3	3TG301203	\$32,502.36
G3012-2	3TG301202	\$33,667.91
G3012-1	3TG301201	\$35,898.18
G3014-4	3TG301404	\$34,907.15
G3014-3	3TG301403	\$33,071.03
G3014-2	3TG301402	\$38,464.77
G3014-1	3TG301401	\$36,466.87
G3016-4	3TG301604	\$33,684.03
G3016-3	3TG301603	\$34,442.26
G3016-2	3TG301602	\$35,607.81
G3016-1	3TG301601	\$40,876.04
G3020-3	3TG302003	\$39,433.12
G3020-2	3TG302002	\$46,652.53
G3020-1	3TG302001	\$43,754.57



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	\$359.87
3T8-421-40A	12 VDC / 24 VAC	NEMA 4	0025 thru 4000	\$359.87
3T8-431-40A	24 VDC / 48 VAC	NEMA 4	0025 thru 4000	\$359.87
3T8-441-40A	220 VAC	NEMA 4	0025 thru 4000	\$359.87
3T8-711-40A	115 VAC	NEMA 7	0025 thru 4000	\$581.31
3T8-721-40A	12 VDC / 24 VAC	NEMA 7	0025 thru 4000	\$583.51
3T8-731-40A	24 VDC / 48 VAC	NEMA 7	0025 thru 4000	\$581.31
3T8-741-40A	220 VAC	NEMA 7	0025 thru 4000	\$445.74

Cv = 1.8
All include adapters to turn "NAMUR 90°".

AVC MANIFOLD MOUNT NEMA 4 COIL

PART NUMBER	VOLTAGE	ENCLOSURE RATING	LIST PRICE
M107900	24 VDC	NEMA 4	\$112.20
M108900	12 VDC / 24 VAC	NEMA 4	\$87.28
M114500	115 VAC	NEMA 4	\$110.35
M107800	220 VAC	NEMA 4	\$81.85

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

PART NUMBER	VOLTAGE	ENCLOSURE RATING	ACTUATOR SIZE	LIST PRICE
M116300	120 VAC	NEMA 4/4X	L4505AAWR-AA-GM209N	\$691.89
M116400	120 VAC	NEMA 4/4X/7	L4505AAB022-775	\$877.40

Cv = 4.5
Aluminum bodies, 1/2" NPT Pipe size, momentary manual override



ACTUATION PRICE LIST

SOLENOIDS ACCESSORIES

PART NUMBER	DESCRIPTION	LIST PRICE
I495900	1/2" Conduit to Strain Relief Adapter	\$34.52
M115000	1/2" Conduit Connector	\$25.02
M115700	Strain relief Connector	\$19.49
M115800	1/2" Lighted Conduit Connector	\$36.04
I384900	1/4" NPT Breather/Muffler	\$35.34

PROXIMITY LIMIT SWITCHES FOR MANUAL VALVES

MODEL NO.	PART NO.	DESCRIPTION	LIST PRICE
I2AD0	M105900	2 Switches Without Indicator	\$452.31
I4AD0	M107200	4 Switches Without Indicator	\$931.37
I2GD0	M116000	4 Switches With Gold Contacts	\$752.23
I2ADO	M116100	2 Switches With Indicator	\$597.04
I2RDO	M116900	2 SPDT Reed Switches W/Indicator	\$864.19
I42DD0	M119600	2 DPDT Switches W/Indicator	\$1,256.49

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

MODEL NO.	PART NO.	DESCRIPTION	LIST PRICE
IND2004DAROA/4/LS500SS	M116600	4" Leads and 5 Pin Connector	\$928.98
IND2004DAROA	M116700	6" Leads	\$742.72
E17105	M116800	Puck with 2 Targets	\$124.20
IN0117	M117600	Brad Harrison Connector	\$897.89

LOCKOUT-TAGOUT DEVICES

MODEL NO.	ACTUATOR SIZE	LIST PRICE
3TL4000	040/065	\$1,291.21
3TL5060	100/150	\$1,555.26
3TL6570	200	\$1,420.56
3TL8000	350/600	\$2,523.52
3TL9000	950	\$2,621.30

NEEDLE VALVE STROKING SPEED ADJUSTMENT

MODEL NO.	PART NO.	LIST PRICE
1/8 NPT Brass	W661600	\$40.94
1/4 NPT Brass	W616900	\$40.94
1/4 NPT Brass With Muffler	W712000	\$56.09
1/4 NPT Brass ENC Plated W/Muffler	W834500	\$41.14

FILTER REGULATOR & GAUGE - 0-150 PSIG

MODEL NO.	PART NO.	LIST PRICE
Norgren 1/4 NPT Auto Drain	W719900	\$681.92
Norgren 3/8 NPT Auto Drain	W706900	\$572.47



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	\$775.54
AE40010	400 lb. in.	115 VAC	10.0 seconds	\$922.62
AE60010	600 lb. in.	115 VAC	15.0 seconds	\$1,076.46
AE80010	800 lb. in.	115 VAC	20.0 seconds	\$1,283.65
AE100010	1000 lb. in.	115 VAC	25.0 seconds	\$1,812.25

AE ELECTRIC ACTUATORS - VOLTAGE ADDERS

VOLTAGES	LIST PRICE
220 VAC	\$115.53
24 VAC	\$231.00
12 VDC	\$115.53
24 VDC	\$115.53
24 VDC	\$102.70

AE ELECTRIC ACTUATORS - OPTIONS/ADDERS

OPTION	PART NO. *	LIST PRICE	DESCRIPTION
A	7835901	\$70.82	One Extra Switch & Cam**
B	7836001	\$141.74	Two Extra Switch & Cam**
C	7836101	\$212.56	Three Extra Switch & Cam**
D	78179801	\$311.45	24 VAC Heater & Thermostat
D	78171201	\$327.03	115 VAC Heater & Thermostat
D	78179901	\$311.45	230 VAC Heater & Thermostat
D	78180001	\$311.45	12 VDC Heater & Thermostat
D	78180101	\$311.45	24 VDC Heater & Thermostat
F	78174801	\$327.03	115 VAC Motor Brake
F	78174701	\$311.45	24 VAC Motor Brake
H	M124700	\$419.11	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	
\$775.54	No Charge	\$70.82	\$327.03	\$327.03	\$1,500.42

- 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%)	\$1,883.68
3R87931A	CS300 WE	115 VAC	Extended Duty (75%)	\$2,014.67
3R87932A	CS600 WE	115 VAC	Extended Duty (75%)	\$2,115.66
3R88087B	CL1000 WE	115 VAC	Extended Duty (75%)	\$3,191.25
3R87981B	CL1500 WE	115 VAC	Extended Duty (75%)	\$3,846.23
3R88048B	CL2000 WE	115 VAC	Extended Duty (75%)	\$4,914.47
3R88096B	CL2500 WE	115 VAC	Extended Duty (75%)	\$5,354.17
3R88018B	CL3000 WE	115 VAC	Extended Duty (55%)	\$5,603.83

CS/CL ELECTRIC ACTUATORS - OPTIONS/ADDERS

OPTIONS	DESCRIPTION	CS ADDER	CL ADDER
230 VAC	230 VAC Motor 50/60 Hz	\$342.89	\$360.02
X	NEMA 4, 4X, 7, 9, CSA Listed	\$141.60	\$657.45
W	NEMA IV (Weather Proof), CSA Listed	N/C	N/C
E	APOLLO STD	N/C	N/C
H	Tropical Heater 90° - 150° F	\$549.64	\$577.12
S2	Two Auxiliary Switches SPDT	\$233.29	\$244.96
T	Heater And Thermostat	\$364.66	\$382.89
K	Motor Break	\$293.94	\$308.64
Z	Declutchable Handwheel Override	\$718.48	\$754.41
Control Options			
J	Speed Control/Timer Board	\$1,700.09	\$1,856.50

CS/CL SERIES ACTUATOR

PRICING EXAMPLE

BASE ACTUATOR	OPTIONS ADDER		TOTAL
CS150WE	X	T	CS150XTE
	NEMA 4/4X/7/9	Heater & Thermostat	
\$141.60	\$364.66	\$2,389.94	\$2,317.49

- 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								
	ORDER CODE	MODEL NUMBER							
		3RACS	3RACS	3RACS	3RACL	3RACL	3RACL	3RACL	3RACL
Breakaway Torque		150	300	600	1000	1500	2000	2500	3000
List Price		\$1,993.22	\$2,331.19	\$2,725.36	\$3,318.71	\$4,484.14	\$5,443.02	\$4,618.67	\$5,606.31
VOLTAGE									
UNIVERSAL POWER: 12/24 AC/DC OR 115/230AC									
ENCLOSURE OPTIONS									
Nema 4/4x	W		\$158.40				\$787.93		
NEMA 4/4X/7&9	X								
ELECTRONIC BOARD OPTIONS (MUST SELECT ONLY ONE) See Note 1			\$2,110.62				\$2,110.62		
ON/OFF POSITIONER BOARD	U2		\$2,539.08				N/A		
ON/OFF POSITIONER BOARD W/ BATTERY BACK-UP	UL2		N/A				\$2,514.96		
ON/OFF POSITIONER BOARD W/ BATTERY BACK-UP	UL3								
GENERAL OPTIONS (IF DESIRED)			\$755.76				\$755.76		
DECLUTCHING HANDWHEEL	Z		STANDARD				STANDARD		

EXAMPLES		TORQUE	ENCLOSURE	BOARD OPTION	GENERAL OPTION(S) (IF APPLICABLE)	UNIVERSAL VOLTAGE	TOTAL LIST PRICE
Model Number Sequence	Series	150	W	U2	Z		
3RACS150WU2Z	3RACS	\$2,092.88	\$-	\$2,304.80	\$825.28	\$-	\$4,972.83

		TORQUE	ENCLOSURE	BOARD OPTION	GENERAL OPTION(S) (IF APPLICABLE)	UNIVERSAL VOLTAGE	TOTAL LIST PRICE
Model Number Sequence	Series	\$1,687.30	X	UL3			
3RACL1500XUL3	3RACL	\$4,618.67	\$811.57	\$2,694.02	\$-	\$-	\$8,124.26

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	\$7,025.59
3R AD2 5AF			25	POA
3R AE1 5AF	OA15	1350	15	POA
3R AE2 5AF			25	\$2,681.87

3R AG1 5AF	AT25	2250	15	\$5,720.56
3R AG2 5AF			25	POA
3R AG5 0AF			50	\$5,773.59
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.



ACTUATION PRICE LIST

STONEL LIMIT SWITCHES LIMIT SWITCHES

PART NO.	STONEL MODEL NO.	DESCRIPTION	LIST PRICE
3RLS201	QX2VB02SDA	STONEL LSA, 2 SPDT MECH. SW	\$1,184.78
3RLS203	QX2SB02SDA	STONEL LSA, 2 SPDT MAXX LED SW	\$1,807.77
3RLS217	QX2HB02SDA	STONEL LSA, 2 SPDT MAXX SW	\$1,803.85
3RLS220	QG2VP02SDA	STONEL LSA, 2 SPDT MECH. SW	\$891.35
3RLS221	QN2PP02SDA	STONEL LSA, 2 SPST MAXX SW	\$1,137.09
3RLS223	QX33B02SDA	STONEL LSA, 2 SST SEN DUAL MOD	\$1,452.32
3RLS225	QN25P02SDA	STONEL LSA, 2 SPDT MAXX LED SW	\$179.71
3RLS232	QX2VB02SDA-E	STONEL LSA, 2 SPDT MECH SW	\$1,177.27
3RLS234	QX8YB03SDA	STONEL LSA, 3 SPDT MAXX LED SW	\$2,245.25
3RLS237	QG4VP02SDA	STONEL LSA, 4 SPDT MECH SW	\$952.37
3RLS238	QX2HB02SDA	STONEL LSA, 2 SPDT MAXX SW	\$1,383.17
3RLS239	QX2VB02SDA-E	STONEL LSA, 2 SPDT MECH SW	\$952.37
3RLS240	QX4VB02SDA-E	STONEL LSA, 4 SPDT MECH SW	\$1,415.59
3RLS241	QG2VP02SNA	LIMIT SW., STONEL SR2VB2LNS	\$608.36
3RLS242	QG2VP02SDA	STONEL LSA, 2 SPDT MECH SW	\$608.36
3RLS243	QG2VP02SDA	STONEL LSA, 2 SPDT MECH SW	\$844.90
3RLS244	QN25P02SDA	STONEL LSA, 2 SPDT MAXX LED SW	\$1,200.20
3RLS245	QX4VB02SDA-E	STONEL LSA, 4 SPDT MECH. SW	\$1,225.32
3RLS247	QX5VB02SAA	STONEL LSA, POS TRANS W/2 SPDT	\$3,551.56
3RLS248	QN44B02SDA	STONEL LSA, INTRINSICALLY SAFE	\$1,835.18
3RLS200		INDICATOR ONLY	\$90.67

NAMUR MOUNTING KITS

MODEL NO.	STAINLESS STEEL	LIST PRICE
0025/0350	6300196	\$173.69
0600/4000	6300197	\$173.69

MONITEUR LIMIT SWITCHES LIMIT SWITCHES

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE
3TLS302	FMYB-5120	NEMA 4/Indicator/2 SPDT Mech.	\$530.42
3TLS306	FFNB-5120	NEMA 4/Flat Cover/2 SPDT Mech.	\$493.03
3TLS301	AMYB-5120	NEMA 7/Indicator/2 SPDT Mech.	\$687.24
3TLS305	AFNB-5120	NEMA 7/Flat Cover/2 SPDT Mech.	\$628.01
3TLS303	AMYB-5220	NEMA 7/Indicator/2 SPDT Prox.	\$1,157.90
3TLS307	AFNB-5220	NEMA 7/Flat Cover/2 SPDT Prox.	\$1,082.85
3TLS304	FMYB-5220	NEMA 4/Indicator/2 SPDT Prox.	\$775.36

MOUNTING BRACKETS

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE
6300212	0012	Stainless Steel	\$157.25
6300213	0025 - 0350	Stainless Steel	\$157.25
6300214	0600 - 4000	Stainless Steel	\$157.25



ACTUATION PRICE LIST

DYNATORQUE MANUAL OVERRIDE

PART NO.	ACTUATOR SIZE	DESCRIPTION	LIST PRICE
3tdh4000	AD0040/AD0065 w/ Adapter Plate	DT3SD, Override Per Above Specifications	\$1,525.59
3tdh5000	AD0100 & AD0150	DT3SD, Override Per Above Specifications	\$1,123.35
3tdh7000	AD0200	DT6SD, Override Per Above specifications	\$1,897.72
3tdh8000	AD0350/AD0600	DT12SD, Override Per Above Specifications	\$1,814.34
3tdh9000	AD0950	DT12SD, Override Per Above Specifications	\$2,714.22

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	\$1,169.80
3tsh5000	AS0100/AS0150	DT3SRD, Override Per Above Specifications	\$1,395.24
3tsh7000	AS0200	DT6SRD, Override Per Above Specifications	\$2,075.64
3tsh8000	AS0350/AS0600	DT12SRD, Override Per Above Specifications	\$2,242.80
3tsh9000	AS0950	DT12SRD, Override Per Above Specifications	\$2,276.35

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.



ACTUATION PRICE LIST

PMV PNEUMATIC POSITIONERS

PART NO.	MODEL NO.	DESCRIPTION	LIST PRICE***
3T-200-01	P-2000	Double Acting, Electro-Pneumatic*	\$3,944.30
3T-202-01	P-2020	Double Acting, Electro-Pneumatic**	\$2,735.76
3T-500-01	P5	Double Acting, Hi Capacity & Gain	\$1,782.75
3T-250-01	EP5	Electro Pneumatic, Hi Capacity & Gain	\$4,127.43
3T-250-02	EP5-IS	Double Acting, Hi Capacity & Gain, Explosion Proof	\$6,030.30
CX04420		Flex Hose Kit to Size 032-0350	\$59.98
CX04421		Flex Hose Kit to Size 0600-4000	\$53.38

* 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	\$118.84
0025-0350	63-001-89	Stainless Steel	\$118.84
0600-4000	63-001-91	Stainless Steel	\$118.84

VRC POSITIONERS

PART NO.	MODEL NO.	LIST PRICE
3PV-073-00	VP 700	\$1,182.93
3PV17300	VE 700	\$2,644.15

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	\$105.38
Square Root Cam	\$87.89
Square Cam	\$87.89
0-60° Linear Cam	\$87.89
Equal Percent Cam	\$87.89
Custom	POA
Tangent Linear Adaption Cam	\$87.89
0-45° Linear Cam	\$87.89
Maximum Flow Spool Valve (3TD 80, 90, / 3TS 90)	\$70.27
Brass Gauges	\$158.10
Stainless Gauges	\$614.83
4-20 MA Position Transmitter	\$1,317.49
2 S.P.D.T. Mechanical Limit Switches	\$562.15
2 S.P.D.T. Proximity Limit Switches	\$841.21

VRC POSITIONER BRACKETS

PART NO.	MODEL NO.	LIST PRICE
63-002-28	0025-0350	\$171.75
63-002-29	0600-4000	\$340.75
CX04422	Flex Hose Kit to Size 032-0350	\$59.98
CX03347	Flex Hose Kit to Size 0600-4000	\$119.68



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"	\$86.72
78-999-97	4" – 6"	\$115.54
78-999-96	8"	\$144.46
78-999-94	10" – 12"	\$260.03

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	\$86.72
78-999-97	4" – 6"	C-CW	CW	Closed	\$115.54
78-999-96	8"	C-CW	CW	Closed	\$144.46
78-999-94	10" – 12"	C-CW	CW	Closed	\$260.03

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)	\$86.72
78-999-97V	4" – 6"	C-CW	CW	Open (CW)	\$115.54
78-999-96V	8"	C-CW	CW	Open (CW)	\$144.46
78-999-94V	10" – 12"	C-CW	CW	Open (CW)	\$260.03

"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)	\$86.72
78-999-97C	4" – 6"	CW	C-CW	Open (C-CW)	\$115.54
78-999-96C	8"	CW	C-CW	Open (C-CW)	\$144.46
78-999-94C	10" – 12"	CW	C-CW	Open (C-CW)	\$199.38

"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)	\$86.72
78-999-97P	4" – 6"	C-CW	CW	Open (CW)	\$115.54
78-999-96P	8"	C-CW	CW	Open (CW)	\$144.46
78-999-94P	10" – 12"	C-CW	CW	Open (CW)	\$199.38

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)	\$86.72
78-999-97CP	4" – 6"	C-CW	CW	Closed (CW)	\$115.54
78-999-96CP	8"	C-CW	CW	Closed (CW)	\$144.46
78-999-94CP	10" – 12"	C-CW	CW	Closed (CW)	\$199.38



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	\$324.59	\$453.17	\$556.45
1-1/2	\$336.17	\$500.80	\$586.58
2	\$366.33	\$533.28	\$642.23
3	\$449.79	\$683.97	\$799.89
4	\$626.00	\$799.89	\$973.77
6	\$1,073.48	\$1,316.92	\$1,460.69
8	\$1,242.74	\$1,571.98	\$1,801.49
10	\$1,400.40	\$1,648.46	\$1,873.37

BUTTERFLY VALVE FACTORY MOUNTING & TEST

VALVE SIZE (IN)	FACTORY MOUNTING	LIST PRICE
2" thru 12"	78-999-91	\$115.54
14" thru 24"	78-999-92	\$260.03

MISC TAGGING

DESCRIPTION	LIST PRICE
A. Paper Tags	1.93 net ea.
B. Soft Aluminum Tags	3.85 net ea.
C. Stainless Steel Tags	6.19 net ea.
D. Customer Supplied Tags	1.93 net ea.

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



terms & conditions

AIPSA's SALE OF GOODS AND/OR ACCEPTANCE OF BUYER'S PURCHASE ORDER IS EXPRESSLY CONDITIONED ON THE FOLLOWING:

SCOPE AND ENTIRE AGREEMENT: THESE TERMS AND CONDITIONS OF SALE ("TERMS AND CONDITIONS") APPLY TO THE PURCHASE OF GOODS BY BUYER (TOGETHER WITH ITS SUCCESSORS, HEIRS, AFFILIATES, subsidiaries, and permitted assigns collectively, "Buyer") from Aalberts integrated piping systems Americas, Inc. ("Seller" or "AIPSA"). In the event a written agreement for the supply of goods is executed by authorized representatives of both Buyer and Seller ("Supply Agreement"), such Supply Agreement shall supersede these Terms and Conditions to the extent of any conflict. Except as otherwise agreed to in a Supply Agreement, these Terms and Conditions, as well as the terms and conditions printed on the face of Seller's order acknowledgement and invoice, constitute the sole and entire agreement between Buyer and Seller with respect to the subject matter hereof ("Agreement") and supersede all prior oral and written agreements and understandings, whether express or implied, including those implied by law, through usage of trade, course of performance, or course of dealing. By placing an order or otherwise requesting purchase from Seller, Buyer shall be deemed to have agreed to these Terms and Conditions. Any term or condition included by Buyer which is inconsistent with, or in addition to, this Agreement is expressly rejected. Any attempted modification of this Agreement by Buyer, and any additional or different terms included in Buyer's purchase order, other document submitted by Buyer to Seller, or Buyer's internet site, shall be deemed a material alteration and not a rejection of these Terms and Conditions or Agreement and are hereby rejected by Seller, even if such purchase order or other document is accepted by Seller. This Agreement shall govern, control, and apply to all goods ordered by Buyer from Seller via purchase orders, delivery tickets, invoices or electronic commercial transactions between Buyer and Seller.

ORDER ACCEPTANCE: All orders for goods are subject to acceptance by Seller. Seller may withdraw goods from sale at any time without notice to Buyer. Orders that do not conform to Seller's then-current volume or pricing policies shall be considered rejected without further notice to Buyer required. In the event of shortage of the goods, Seller may allocate available goods among customers as and how Seller sees fit.

MINIMUM ORDER QUANTITY: Seller, at its sole election, may establish reasonable minimum order quantities for goods with non-standard requirements for production such as special materials, special machine set ups, etc. Buyer will be notified at the time of quotation or when a Buyer submits a purchase order if the goods are subject to a minimum order quantity. If a submitted purchase order does not meet any established minimum order quantity, Seller expressly rejects the purchase order.

PRICES AND PAYMENT TERMS:

Prices for the goods shall be the prices stated in Seller's price list in effect at the time of shipment, which prices may take into account increase in, inter alia, raw material costs that may occur during the between the acceptance of a Buyer's order and shipment, unless otherwise agreed to in writing by Seller (e.g., as in Seller's order acknowledgement). Certain cuts, modifications, sizing, specifications may be subject to upcharges, and list prices do not include related services (any tagging, testing, drawings, etc.) that may result in additional charges. Prices exclude all taxes, fees, and duties, including, without limitation, (a) all sales, use, franchise, license, excise, value-added, or other taxes; (b) export or import duties; and (c) inspection fees, all of which shall be paid by Buyer. All prices are subject to change by Seller at any time without notice. Price sheets are not offers to sell.

Time of payment is of the essence. Payment terms are net thirty days from date of invoice, unless otherwise agreed in writing by Seller. Buyer agrees to pay for all goods received by Buyer in full, without offset or deduction, at the prices, for the quantities, and per the payment terms specified on Seller's invoice, by check or wire transfer of immediately available funds in the currency specified on Seller's invoice and as reasonably directed by Seller. Buyer shall notify Seller of any dispute with respect to any invoice within ten (10) days of receipt of the disputed invoice or Buyer waives its right to dispute such invoice. Seller reserves the right to charge a late fee of one- and one-half percent (1½%) per month or the maximum percentage rate permitted by law, whichever is lower, on any amounts not paid in accordance with invoiced terms. Without limiting any other remedies under the law, Buyer shall reimburse Seller for all of Seller's costs and expenses, including reasonable attorneys' fees, incurred in connection with collecting payments due or otherwise enforcing this Agreement.

FREIGHT ALLOWANCE: FREIGHT ALLOWANCE: All combined material shipments are full freight allowed at \$6,000, excepting press products, including "Apollo" PowerPress, "Apollo" Press and "Apollo" SmartPress, which are full freight allowed at \$3,000. No freight will be allowed for Air Freight, Air Express, Parcel Post, U.P.S. shipments, other expedited shipping, or shipping in a manner that is not customary for Seller.

SHIPPING & DELIVERY; TRANSFER OF TITLE AND RISK OF LOSS:

Any orders that qualify for a freight allowance will be shipped F.O.B. Shipping Point, freight prepaid and allowed or as otherwise agreed to in writing by Seller. Any orders that do not qualify for a freight allowance will be shipped F.O.B. Shipping Point, freight prepaid and added to the invoice. For all orders, Seller reserves the right to select the carrier and method of shipment and to route shipments at Seller's discretion. If Buyer requests shipment in a manner other than as selected by Seller, Buyer shall reimburse Seller for extra freight charges, special packaging, and incidental costs incurred for goods shipped at Buyer's request by means other than Seller's customary shipping methods. If Buyer requests Seller to delay shipping all or any portion of an order beyond its scheduled shipment date, Seller may at its discretion agree to delay shipment and impose a service charge of \$150 per pallet per day.

Title and risk of loss passes to Buyer upon delivery of goods by Seller to the carrier at the point of origin. Claims for damages or shortages in transit are the responsibility of Buyer. All shipping dates are approximate and are dependent upon prompt receipt from Buyer of all information necessary for the proper execution of Buyer's purchase order and subject to Seller's acceptance and confirmation. For items requiring export licensing, shipping dates are subject to receipt from the Buyer of requisite items as well as processing time for submission and approval of license. Goods controlled by or subject to the U.S. Bureau of Industry and Security or similar governmental oversight are placed on hold until export documents are obtained. Subject to their availability and requisite licensing, Seller will use commercially reasonable efforts to deliver the goods timely, but in no event will Seller be liable for any costs, charges, expenses, or damages (including liquidated damages), or for any penalty for late or delayed delivery. The time of delivery is not of the essence. Seller may, in its sole discretion and without liability or penalty, make partial shipments of goods to Buyer and each such partial shipment shall constitute a separate sale.

TERMINATION OR SUSPENSION: This Agreement and all shipments of goods shall, at all times, be subject to the approval by Seller of Buyer's financial condition. Seller may extend credit to Buyer in Seller's sole discretion and may modify such credit terms at any time. If the financial condition of Buyer at any time becomes unsatisfactory to Seller, in Seller's sole discretion, or if Buyer fails to make payment when payment is due, fails to take delivery, or breaches this Agreement, in addition to any rights Seller may have, Seller may defer or decline to make any shipment(s), cancel a sale, or condition shipment(s) upon receipt of satisfactory security or cash in advance.

INSPECTION BY BUYER AND NONCONFORMING GOODS: All goods must be inspected by Buyer upon receipt. In the event the goods delivered do not conform to the product or quantity stated on a purchase order accepted by Seller pursuant to Seller's order acknowledgement ("Nonconforming Goods"), Buyer must notify Seller in writing within ten (10) days after Buyer's receipt of such Nonconforming Goods. A failure of Buyer to so notify Seller shall constitute a waiver of such a claim. Upon being notified by Buyer, Seller will be afforded a reasonable opportunity to investigate the claim and to correct the non-conformance by, in Seller's sole discretion, either (a) replacing such Nonconforming Goods; or (b) crediting or refunding the price for such Nonconforming Goods, together with shipping charges incurred by Buyer in connection therewith. In either case, Buyer shall ship the nonconforming goods back to Seller at Seller's reasonable direction and expense. The remedies set forth in this section are Buyer's exclusive remedies with respect to the delivery of Nonconforming Goods. Seller will not have responsibility for paying for any costs associated with the use or installation of Nonconforming Goods. Buyer shall defend, indemnify and hold Seller harmless from any claim, damage, liability or expense (including but not limited to reasonable attorneys' fees, costs of investigation, and costs of defense) arising out of or in connection with any violation of the preceding sentence. This section does not apply to nonconformities that are subject to an applicable End User or Reseller Limited Warranty, as defined below.

NON-RETURNABLE, NON-CANCELLABLE GOODS: The following goods are not returnable ("Non-Returnable Goods"): all non-stock, special, custom made, or modified items, including stock items that require special alloys or incorporation of special or non-standard materials, services, or requirements; items containing time-sensitive components that have reached the end of their warranty or shelf life; items that incorporate materials or components from a third party at request of Buyer; and clearance and limited-availability items. Orders (i) for Non-Returnable Goods or (ii) for any services already performed by Seller are non-cancellable and will be invoiced to Buyer for payment per these Terms and Conditions.

RETURNS OF STANDARD, STOCK ITEMS: Only standard, stock items that do not constitute Non-Returnable Goods ("Stock Items") are subject to requests for return. Seller will not accept returns of broken boxes or returns of Stock Items less than case quantity. No goods may be returned without prior written authorization from Seller. Requests to return Stock Items must be made in writing within ninety (90) days from date of shipment by Seller. If authorized by Seller in writing, returns must be shipped prepaid by Buyer to the location designated on the return authorization. Credit will be issued based on the original invoice price, or price in effect at time of return, whichever is lower, less a minimum restocking charge of 30%. All returned goods must be in salable condition in order to qualify for credit. Return authorization will not be granted when the value of all items to be returned is less than \$6,500.00. Orders for Stock Items may be cancelled by notice to the Seller prior to shipment, subject to Buyer's payment of a cancellation charge of 30% of the price in Seller's order confirmation. Cancellation of any order after shipment will be subject to the return provisions of these Terms and Conditions.



terms & conditions

RESELLER LIMITED WARRANTY:

Seller extends to (i) certain purchasers (e.g., builder, installer, contractor, or other person) purchasing the goods for use or installation, rather than resale, and (ii) end users (e.g., property owners) of goods it manufactures (collectively, "End Users") written limited warranties found at <https://aalberts-ips.us/warranty-information/> ("End User Limited Warranty"). If Buyer is an End User of the goods, the terms of the applicable End User Limited Warranty shall govern and control, and the remedies set forth in the End User Limited Warranty shall be Buyer's sole and exclusive remedy, and Seller's entire liability for any breach of warranty or other claim is controlled by the End User Limited Warranty.

It is understood and agreed that Buyer is not an End User. Seller warrants to Buyer that as of the date of manufacture, such goods materially conform to Seller's published specifications in effect as of the date of manufacture and are free from defects in material and workmanship that cause the goods to be unable to perform their intended function ("Reseller Limited Warranty"). Should any goods sold to Buyer in its capacity as a reseller of the goods be found to not meet the foregoing warranty, Seller shall, in its sole discretion, either furnish a replacement or make a fair allowance therefor; provided, however, that Buyer must provide Seller with a written notice of any claim under such warranty within thirty (30) calendar days of Buyer's receipt of the goods and must refrain from resale of the goods. Buyer must afford Seller a reasonable opportunity to inspect the goods and evaluate the claim. AS A RESELLER OF THE GOODS, THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO GOODS PURCHASED FOR RESALE WHICH DO NOT CONFORM TO THE WARRANTY STATED ABOVE. EXCEPT FOR THE RESELLER LIMITED WARRANTY, SELLER MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE GOODS AND DISCLAIMS ALL OTHER WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE. Nothing in this Agreement or otherwise shall be construed so as to create or infer any other warranty on the goods.

BUYER'S COMPLIANCE, RESELLER OBLIGATIONS, AND EXPORT CONTROL:

Buyer shall comply with all applicable laws, rules, guidelines, regulations, and orders ("Laws") in any way relating to Buyer's purchase, ownership, transportation, receipt, handling, exportation, storage, processing, alteration, relabeling, refinishing, reconfiguring, rebranding, repackaging, disposal, redirection or resale of the goods once the goods have been received by Buyer, including all sanctions, anti-bribery, anti-money laundering and counter-terrorism financing laws applicable in its countries of establishment and/or operation.

In the event Buyer modifies, reconfigures, relabels, rebrands, or repackages the goods for resale (including further distribution), then (a) the goods shall be sold under Buyer's brand, (b) any warranty offer by Seller to Buyer shall be invalidated, and (c) Buyer shall be solely responsible for such modified, reconfigured, relabeled, rebranded, or repackaged goods and for ensuring such goods comply with all applicable Laws. Buyer acknowledges that the goods are subject to various federal, state, provincial, and local Laws and that the goods are labeled for end use within the jurisdiction in which the goods are delivered to Buyer.

Without limiting the foregoing, Buyer shall comply with, and at Seller's request shall demonstrate compliance with, all export laws, restrictions, and regulations of any U.S. agency or authority (including International Traffic in Arms Regulations (ITAR) or the Export Administration Regulations (EAR)) or foreign agency or authority. Buyer shall not export, or re-export, or allow the export or re-export of goods sold under this Agreement in violation of any such laws, embargoes, restrictions or regulations. The above also applies to the extent Buyer otherwise makes available to a foreign person (within or outside of the U.S.) the technical data, technology or know-how comprising, or relating to, the goods. Buyer shall obtain and bear all expenses relating to any necessary licenses and/or exemptions with respect to the export or re-export from the United States to Buyer or customers of Buyer in compliance with all applicable laws and regulations prior to shipment thereof. Buyer shall defend, indemnify and hold Seller harmless from any claim, damage, liability or expense (including but not limited to reasonable attorneys' fees, costs of investigation, and costs of defense) arising out of or in connection with any violation of the preceding sentence.

Buyer expressly acknowledges and agrees not to export, re-export or provide goods to any person, entity, or destination prohibited under U.S. Law from receiving such goods pursuant to sanction or otherwise, without obtaining prior government authorization. All warranties otherwise applicable to the goods shall be null and void for goods exported outside the U.S. and Canada and goods sold outside the U.S. and Canada are "as is", with no express or implied warranties provided by Seller.

PRODUCT LITERATURE, SUITABILITY OF GOODS: Buyer further agrees that it has received and will comply with available product literature on Seller's website as of the time of shipment relating to the transport, storage, handling, and installation of goods from Seller. Seller is not responsible for verifying if its goods are suitable for intended service conditions and assumes no responsibility for same.

NO RECOVERY OF CONSEQUENTIAL OR SPECIAL DAMAGES: IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, SPECIAL, MULTIPLE, PUNITIVE, INDIRECT, CONSEQUENTIAL, EXEMPLARY OR RESULTING DAMAGES, INCLUDING BUT NOT LIMITED TO, PROPERTY DAMAGE (INCLUDING WATER DAMAGE, MOLD, OR DAMAGE TO OTHER BUILDING COMPONENTS), LOST PROFITS OR REVENUES, OR LOSS OF USE WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT, OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER EITHER SELLER OR BUYER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL

FORCE MAJEURE: Seller shall not be liable, nor deemed in breach hereunder, for any failure or delay in delivering the goods or in the performance of its other obligations to Buyer hereunder, caused by or arising out of circumstances or events beyond the parties' control and that they could not reasonably avoid or overcome ("Force Majeure Event"). Force Majeure Events include, but are not limited to, strikes involving all or part of the Seller's personnel or its customary carriers, fire, flood, war (declared or not), riot, insurrection, acts of terrorism, pandemic, epidemic, public health emergency, acts (including, without limitation, suspensions, closures, and delays) of any governmental authority, priorities granted at the request or for the benefit, directly or indirectly, of any government or agency thereof, shortage of raw material, act of God, weather, natural disasters, production stoppages due to unintended breakdowns, impossibility of receiving supplies or raw materials, weight limits during thaw conditions, road blocks, strikes or breakdowns in electricity or utility supplies, or supply breakdowns attributable to Seller's suppliers, rebellion, revolution, insurrection, military or usurped power, civil war and other hostilities, invasion, act of foreign enemies, mobilization, requisition or embargo, ionizing radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosives, or other hazardous properties of any explosive nuclear assembly or nuclear components thereof, and regardless of whether the cause or condition now exists or arises hereafter, and whether or not such condition is foreseeable. If Seller is rendered unable to carry out any or all of its obligations under this Agreement because of the happening of a Force Majeure Event, then Seller shall give notice to Buyer and, upon the giving of such notice, the obligations of Seller shall be suspended for as long as may be necessary under the circumstances. If the Force Majeure Event lasts longer than thirty (30) days from Seller's notice, Seller and Buyer both have the right to cancel each or all of Buyer's previously accepted and confirmed purchase orders by giving notice to the other within forty-five (45) days of the date of Seller's notice.

INTELLECTUAL PROPERTY: All intellectual property rights related to the goods are either the sole and exclusive property of Seller or Seller is an authorized licensee thereof. Buyer shall not receive any intellectual property ownership or licensing rights with respect to the intellectual property related to the goods. Buyer shall not analyze or otherwise examine, or allow to be analyzed or examined, any of Seller's goods for the purpose of reverse engineering the formulations for such goods. Buyer shall not modify, reconfigure, relabel, rebrand, or repackage the goods or remove any trademarks from or other markings on the goods without the express written consent of Seller.

CONFIDENTIALITY: Any nonpublic, confidential, or proprietary information disclosed by Seller to Buyer, regardless of whether or not such information is marked or identified as "confidential", including any special pricing, discounts, or rebates offered to Buyer, is confidential, solely for the use of performing this Agreement, and may not be disclosed by Buyer to any third party, except where required by law, unless authorized in advance by Seller in writing, where permitted by law. This section does not apply to information, other than personal information, that is in the public domain, known to Buyer at the time of disclosure, or rightfully obtained by Buyer on a non-confidential basis from a third party.

SECURITY PLEDGE: As collateral security for the payment of the purchase price of the goods, Buyer hereby grants to Seller a lien on and security interest in and to all of the right, title, and interest of Buyer in and to the goods until Buyer makes payment for the goods to Seller. The security interest granted under this provision constitutes a purchase-money security interest. Seller is expressly authorized, at its option, and as Buyer's attorney-in-fact, to file one or more financing statements or other notices under applicable law naming Buyer as debtor and Seller as secured party and indicating therein the goods and proceeds thereof as items of collateral. Without limiting the foregoing, Buyer further agrees to pledge each shipment of goods to Seller, and to execute such documents and to do such further acts as necessary to pledge such shipments to Seller.

INDEMNIFICATION: Buyer hereby indemnifies and agrees to defend and hold Seller harmless from any claims, damages, losses, costs and expenses including, without limitation, attorneys' fees and costs of investigation ("Loss") arising out of or related to (a) the negligent, reckless, or willful acts or omissions of Buyer (or its employees, contractors, or agents), (b) the breach by Buyer (or its employees, contractors, or agents) of its obligations, representations, or covenants hereunder, or (c) any failure by Buyer to comply with applicable Laws; provided, however, nothing contained herein obligates Buyer to indemnify and hold Seller harmless from Loss solely caused by (a) the negligent, reckless, or willful acts and omissions of Seller (or its employees, contractors, or agents), (b) the breach by Seller (or its employees, contractors, or agents) of its obligations, representations, or covenants hereunder, or (c) any failure by Seller to comply with applicable Laws.



terms & conditions

GOVERNING LAW; CONSENT TO JURISDICTION: This Agreement and all matters arising out of or relating to this Agreement are governed and to be construed by the laws of the State of North Carolina, including specifically the provisions of the Uniform Commercial Code as then in effect in the State of North Carolina, without regard to any choice of law provisions that would obtain a different result. **THE PARTIES EXPRESSLY EXCLUDE THE APPLICABILITY OF THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS.** Any action or proceeding arising out of or related to this Agreement shall be brought only in a state court located in Mecklenburg County, North Carolina, or federal court for the Western District of North Carolina, and the parties hereby (i) consent to such exclusive venue and the exclusive jurisdiction of such courts over the subject matter of such proceeding and themselves and (ii) waive and agree not to assert defenses as to venue or personal jurisdiction in any action commenced in such courts pursuant to this Agreement.

ADDITIONAL TERMS:

This Agreement is for the sole benefit of Seller and Buyer, and nothing herein, express or implied, is intended to or shall confer upon any other person or entity any legal or equitable right, benefit, or remedy.

Buyer may not assign any rights nor delegate any obligations under this Agreement without Seller's prior written consent, and any attempt at assignment by Buyer is null and void. Failure of Seller to enforce any provision of these Terms and Conditions will not be construed as a waiver of any provision hereof. Any waiver must be made in writing, with reference to these Terms and Conditions specifically, and signed by Seller.

If any portion of this Agreement is held invalid or unenforceable, such portion shall be severed from the remaining parts and such holding will not affect the validity or enforceability of any other provision.

If (i) any quotation or other document of Seller is deemed to constitute an offer to Buyer or (ii) any purchase order or other document of Buyer is deemed to constitute an acceptance, Buyer's acceptance of Seller's offer is governed by and subject to these Terms and Conditions.

This Agreement does not obligate Buyer to order goods from Seller, nor does it obligate Seller to accept orders from Buyer.

Seller may amend or change these Terms and Conditions at any time without notice by posting an updated version thereof on its website. The version of these Terms and Conditions in effect as of the date OF SELLER'S ORDER ACKNOWLEDGMENT APPLIES AND SUPERSEDES ALL PRIOR VERSIONS.



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.

