

"Apollo"® Flow Controls

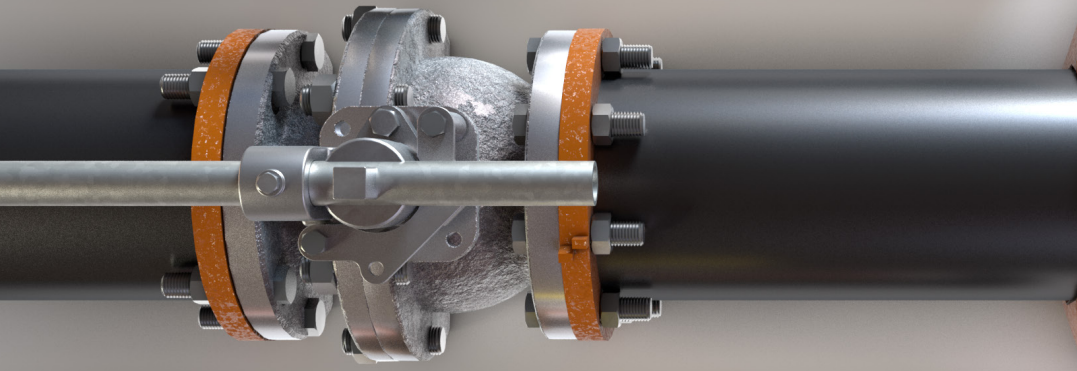
"Apollo" Valves

Elkhart Products Corporation



LASCO FITTINGS, INC

SHURJOINT®



BALL VALVE PRICE LIST
 BVPL9000
 EFFECTIVE 23JAN17

BRONZE BALL VALVES

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 70B Series.....8
 70-HC Series.....8
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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.

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

TERMS AND CONDITIONS OF SALE

- Payment: 2% 10th prox. Net 30 days.
- All prices F.O.B. shipping point with freight allowed on shipments of 750 pounds and/or \$5,000 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.



*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™" or "Conbraco™ International".

APOLLO NUMBERING SYSTEM

Please use all digits when ordering. (Catalog number plus design number) AVAILABILITY ON REQUEST

00	MATERIALS OR STYLE	- 0	TYPE	0	VARIATIONS	0	SIZE
70	Bronze		Apollo & Saturn Valves	3	CU-NI Ball & Stem	1	1/4"
70LF	Lead Free Bronze	1	NPT Female	4	SS Ball & Stem	2	3/8"
71	Bronze with Pads	2	Solder/Socket Weld	9	Pinned Retainer	3	1/2"
72	Carbon Steel, Bar Stock	3	Union End NPT			4	3/4"
72-A	Carbon Steel, A105 Forged Body	4	Union End/Solder Socket Weld			5	1"
73	Carbon Steel	5	Spring Return Handle			6	1-1/4"
73A	A105 Carbon Steel	6	3-Way NPT			7	1-1/2"
74	Nickel	7	Full Port Refridgeration Valves			8	2"
75	Pad-Locking Bronze	8	Male X Female NPT			9	2-1/2"
76	CF8M Stainless Steel	9	3-Way Solder/O-Ring Boss			0	3"
76F	CF8M Stainless Steel, Full Port					A	4"
77	Bronze Full Port		Apollo 3 Piece Valves			C	6"
77C	Bronze Full Port Contractor Grade	1	NPT Female			E	8"
77CLF	Lead Free Bronze Full Port Contractor Grade	2	Solder/Socket Weld			G	10"
77F*	Forged Brass Full Port	3	Sch. 5 Butt weld 83 & 86 Series			H	12"
77FLF*	Lead Free Forged Brass Full Port	4	Sch. 10 Butt weld 83 & 86 Series				
77V†	Forged Brass Press Design	5	Sch. 40 Butt weld 83 & 86 Series				
77VLF†	Lead Free Forged Brass Press Design	6	Sch. 80 Butt weld 83 & 86 Series				
77W†	Bronze Press Design						
77WLF†	Lead Free Bronze Press Design		Flanged Valves				
78	Special Valves	1	Class 150 Standard Port				
79	Refrigerant Valves	2	Class 150 Full Port				
7A	Chlorine Carbon Steel	3	AAR Valves				
7K	Bronze Full Port Drain	4	Class 150 Standard Port Alloy 20 (87A)				
80	Bronze, UL Listed	5	Class 150 Full Port Alloy 20 (87A)				
82	Bronze 3-Piece Full Port	6	Class 300 Full Port Alloy 20				
82LF	Lead Free Bronze 3-Piece Full Port	7	Class 300 Standard Port				
83A	CS 3-Piece 1500 LB Full Port	8	Class 300 Standard Port Alloy 20				
83B	CS 3-Piece 600 Class Full Port	9	Class 300 Full Port				
86A	SS 3-Piece, 1500 LB Full Port	F	Class 600 Full Port				
86B	SS 3-Piece, 600 Class Full Port						
87A	CF8M SS Flanged						
87A-400	Alloy 20 Flanged						
87B	CF8M SS Flanged Unibody						
88A	Carbon Steel Flanged						
88B	Carbon Steel Flanged Unibody						
89	Cast Carbon Steel w/Pads						
9A	Bronze, Heavy Pattern, Unibody						
90	Bronze, Unibody UL Listed						
92	Cast Carbon Steel Unibody						
93	CS Unibody						
95ALF*	Lead Free Brass Stop & Drain						
96	CF8M SS Unibody						
399	Alloy-20 NPT						

BALL VALVE PRICE LIST

NOTE: Not all options and combinations available on all sizes and series. Consult with a Conbraco representative.

**00
DESIGN**

-01	Standard Configuration	-51	One Tack Weld
-02	Stem Grounded	-52	Two Tack Welds
-04	2-1/4" CS Stem Extension	-53	Three Tack Welds
-05	Plain Ball	-54	Four Tack Welds
-07	Steel Tee Handle	-56	Multifill (MPTFE) Seats and Packing
-08	90° Reversed Stem	-57	Oxygen Cleaned (Bronze & SS Only)
-09	SS Lever - Obsolete	-58	Chain Lever, Horizontal
-10	SS Lever & Nut	-59	SS External Trim - 3-PC valves
-11	Therma-Seal™ Insulating T-Handle	-60	Grounded Ball & Stem
-12	Stamped "157 SWP" & Bagged	-62	Body Center Section
-13	Stamped "157 SWP"	-63	NPT X Solder/Socket Weld
-14	Side Vented Ball (Uni-Directional)	-64	250 Lb. Steam Trim
-15	Wheel Handle, Steel	-65	Multifill Seats and Graphite Packing
-16	Chain Lever, Vertical	-66	FNPT X Butt weld
-17	Rough Chrome Plate - Bronze Valves	-67	Cleaned for Industrial gases
-18	Plain Yellow Grip	-68	4" Stem Extension (3" & 4" 3-PC. 82 Series) - Obsolete
-19	With Lock Plate	-69	Purge Ports Drilled/Tapped @ Bottom & Approx 45° from top
-20	Slot Vented Ball (Bi-Directional) - Bronze Valves	-70	4" Extended Bonnet
-21	UHMWPE Trim (Non-PTFE)	-72	RTFE Packing
-22	Viton Union Seals	-73	TFE Packing - Spiral Wound body seals - TFE Fillers - Flange BV
-23	Tank Flange (2" 3-PC. Valves Only)	-74	Graphite packing - Spiral Wound body seals - Graphoil fillers - Flange BV
-24	Graphite Packing	-75	MPTFE Seats, PTFE Packing, RPTFE Gaskets
-26	Chevron Pkg., Vent Assd. Dry Monel Trim (7A)	-76	Live Loaded 87A/88A Series (lever)
-27	SS Latch Lever & Nut	-77	Live Loaded 87A/88A Series (Gear & actuated)
-29	Graphite Packing & Seals	-78	Delrin seats
-30	Cam-Lock and Grounded Stem	-79	Nylon Seats/Graphite packing 72 series and 72-A
-31	7B Series w/Boss Not Drilled/Tapped	-80	Multi-seal (super TFE) 87A/88A Series
-32	SS Hi-Rise Tee Handle & Nut	-90	Extended bonnet with double packing
-33	76-300 Series w/pad Drilled/Tapped	-9P	Extended bonnet with double packing and port
-35	VTFE Trim	-92	Balancing Stop (Memory Stop)
-36	SS Hi-Rise Round Handle, SS Nut	-94	2-1/4" Extended Stem & Balancing Stop (Memory Stop)
-38	PEEK Seats & Bearing (Graphite Packing & Seals)	-97	Grnd. whl. Handle, Pinned or Tack welded
-39	SS Hi-Rise Locking Wheel Handle, SS Nut	-98	Grnd. Whl. Pinned or Tack Welded & 1-1/4" Stem Ext.
-40	CYL-LOC and Grounded Stem	-AR	Actuator Ready
-41	Auto. Drain (Bronze Valves Only)	-BC	Ball Check
-42	Non-Vented Ball, No Hole in Slot (CS and SS)	-MG	Gear Operated, Std. Hand Wheel
-44	Seal weld 76-100 Only	-MH	Gear Operated, Std. Hand Wheel, Lockout Device
-45	Less Lever & Nut	-MJ	Gear Operated, Oversize Hand Wheel
-46	SS Latch Lock Lever, Lock in Closed Position Only	-MK	Gear Operated, Oversize Hand Wheel, Lockout Device
-47	SS Oval Latch Lock Handle, SS Nut	-P01	BSPP (Parallel) Thread Connection
-48	SS Oval Handle, No Latch, SS Nut	-T01	BSPT (Tapered) Thread Connection
-49	Assembled Dry		
-50	2-1/4" CS Locking Stem Extension		

70 SERIES

BRONZE BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-101-01	1/4	60	18.20	10
70-102-01	3/8	56	18.20	10
70-103-01	1/2	63	18.20	10
70-104-01	3/4	139	30.03	10
70-105-01	1	172	37.80	10
70-106-01	1-1/4	326	63.42	5
70-107-01	1-1/2	461	80.99	5
70-108-01	2	606	101.49	2
70-109-01A	2-1/2	1725	478.81	1
70-100-01	3	1860	552.46	1
70-10A-01	4	2550	729.96	1

THREADED ENDS W/ (-27) SS LATCH LOCK LEVER

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-101-27	1/4	60	23.12	10
70-102-27	3/8	56	23.12	10
70-103-27	1/2	63	23.12	10
70-104-27	3/4	139	34.95	10
70-105-27	1	172	42.70	10
70-106-27	1-1/4	326	68.33	5
70-107-27	1-1/2	461	85.92	5
70-108-27	2	606	106.41	2
70-109-27A	2-1/2	1725	493.44	1
70-100-27	3	1860	567.03	1

THREADED ENDS W/ (-41) AUTO DRAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-101-41	1/4	60	20.84	10
70-102-41	3/8	56	20.84	10
70-103-41	1/2	63	20.84	10
70-104-41	3/4	139	32.66	10
70-105-41	1	172	43.08	10
70-106-41	1-1/4	326	71.42	5
70-107-41	1-1/2	461	88.96	5
70-108-41	2	606	109.42	2
70-109-41A	2-1/2	1396	527.21	1
70-100-41	3	1845	598.51	1

THREADED ENDS W/ (-27) LATCH LOCK & (-41) AUTO DRAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-101-27-41	1/4	60	25.78	10
70-102-27-41	3/8	64	25.78	10
70-103-27-41	1/2	63	25.78	10
70-104-27-41	3/4	140	37.65	10
70-105-27-41	1	173	48.00	10
70-106-27-41	1-1/4	326	76.35	5
70-107-27-41	1-1/2	461	93.93	5
70-108-27-41	2	606	114.39	2
70-109-27-41A	2-1/2	1725	541.74	1
70-100-27-41	3	1870	613.07	1

THREADED ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-141-01	1/4	59	27.30	10
70-142-01	3/8	55	27.30	10
70-143-01	1/2	62	27.30	10
70-144-01	3/4	137	50.53	10
70-145-01	1	171	61.18	10
70-146-01	1-1/4	320	101.56	5
70-147-01	1-1/2	453	136.70	5
70-148-01	2	588	180.64	2
70-149-01A	2-1/2	1703	718.58	1
70-140-01	3	1825	831.09	1
70-14A-01	4	2550	1094.88	1

SOLDER ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-202-01	3/8	63	18.20	10
70-203-01	1/2	71	18.20	10
70-204-01	3/4	144	30.03	10
70-205-01	1	191	37.80	10
70-206-01	1-1/4	295	63.42	5
70-207-01	1-1/2	399	80.99	5
70-208-01	2	571	101.49	2
70-209-01A	2-1/2	1553	478.81	1
70-200-01	3	1674	552.46	1
70-20A-01	4	2480	729.96	1

SOLDER ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-242-01	3/8	54	27.30	10
70-243-01	1/2	70	27.30	10
70-244-01	3/4	134	50.53	10
70-245-01	1	175	61.18	10
70-246-01	1-1/4	312	101.56	5
70-247-01	1-1/2	391	136.70	5
70-248-01	2	563	180.64	2
70-249-01A	2-1/2	1725	718.58	1
70-240-01	3	1674	831.09	1
70-24A-01	4	2480	1094.88	1

THREADED ENDS - SINGLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-301-01	1/4	86	25.88	10
70-302-01	3/8	84	25.88	10
70-303-01	1/2	99	27.52	10
70-304-01	3/4	191	46.74	10
70-305-01	1	242	63.12	10
70-306-01	1-1/4	427	107.28	5
70-307-01	1-1/2	582	134.28	5
70-308-01	2	855	209.61	2

70 SERIES

BRONZE BALL VALVE

SOLDER ENDS - SINGLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-402-01	3/8	85	25.88	10
70-403-01	1/2	102	27.52	10
70-404-01	3/4	193	46.74	10
70-405-01	1	242	63.12	10
70-406-01	1-1/4	411	107.28	5
70-407-01	1-1/2	544	134.28	5
70-408-01	2	777	209.61	2

THREADED ENDS - MALE x FEMALE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-801-01	1/4	63	21.75	10
70-802-01	3/8	60	21.75	10
70-803-01	1/2	72	21.75	10
70-804-01	3/4	142	34.68	10
70-805-01	1	193	49.50	10
70-806-01	1-1/4	319	79.32	5
70-807-01	1-1/2	460	96.97	5

THREADED ENDS - 3 WAY

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-601-01	1/4	91	33.01	6
70-602-01	3/8	88	33.01	6
70-603-01	1/2	76	33.01	6
70-604-01	3/4	165	45.55	6
70-605-01	1	215	60.33	6
70-606-01	1-1/4	385	95.37	5
70-607-01	1-1/2	522	111.34	5
70-608-01	2	620	160.27	2

THREADED ENDS - 3 WAY W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-641-01	1/4	91	42.13	6
70-642-01	3/8	88	42.13	6
70-643-01	1/2	76	42.13	6
70-644-01	3/4	165	66.06	6
70-645-01	1	215	83.74	6
70-646-01	1-1/4	385	143.90	5
70-647-01	1-1/2	522	167.07	5
70-648-01	2	620	239.45	2

THREADED ENDS - 3 WAY W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-641-01	1/4	91	42.13	6
70-642-01	3/8	88	42.13	6
70-643-01	1/2	76	42.13	6
70-644-01	3/4	165	66.06	6
70-645-01	1	215	83.74	6
70-646-01	1-1/4	385	143.90	5
70-647-01	1-1/2	522	167.07	5
70-648-01	2	620	239.45	2

SOLDER ENDS - 3 WAY

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-903-01	1/2	76	34.11	6
70-904-01	3/4	165	47.03	6
70-905-01	1	215	60.77	6

70B SERIES

B31.1 POWER PIPING BRONZE BALL VALVE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70B-141-64	1/4	60	42.62	1
70B-142-64	3/8	56	42.62	1
70B-143-64	1/2	63	42.62	1
70B-144-64	3/4	139	66.39	1
70B-145-64	1	172	79.75	1
70B-146-64	1-1/4	326	121.93	1
70B-147-64	1-1/2	461	158.73	1
70B-148-64	2	606	202.76	1

70HC SERIES

BRONZE BALL VALVE - HOSE THREAD

THREADED ENDS W/ HOSE CAP & CHAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-103-HC	1/2 NPT X 3/4 Hose	63	30.32	10
70-104-HC	3/4 NPT X 3/4 Hose	139	42.82	10
70-105-HC	1 NPT X 3/4 Hose	175	55.30	10

SOLDER ENDS W/ HOSE CAP & CHAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-203-HC	1/2 SOL X 3/4 Hose	71	30.32	10
70-204-HC	3/4 SOL X 3/4 Hose	144	42.82	10
70-205-HC	1 SOL X 3/4 Hose	195	55.30	10

STAINLESS STEEL TRIM W/ HOSE CAP & CHAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70-143-HC	1/2 NPT x 3/4 Hose	63	39.35	1
70-144-HC	3/4 NPT x 3/4 Hose	139	63.16	1
70-145-HC	1 NPT x 3/4 Hose	175	77.08	1
70-243-HC	1/2 Solder x 3/4 Hose	63	39.33	1
70-244-HC	3/4 Solder x 3/4 Hose	139	63.13	1
70-245-HC	1 Solder x 3/4 Hose	175	80.61	1

70LF SERIES

LEAD FREE BRONZE BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-101-01	1/4	60	24.52	10
70LF-102-01	3/8	56	24.52	10
70LF-103-01	1/2	63	24.52	10
70LF-104-01	3/4	130	40.46	10
70LF-105-01	1	172	50.96	10
70LF-106-01	1-1/4	326	85.47	5
70LF-107-01	1-1/2	461	109.13	5
70LF-108-01	2	606	130.10	2
70LF-109-01	2-1/2	1396	559.17	1
70LF-100-01	3	1860	645.16	1
70LF-10A-01	4	2550	852.43	1

THREADED ENDS W/ 316SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-141-01	1/4	60	38.61	10
70LF-142-01	3/8	56	38.61	10
70LF-143-01	1/2	63	38.61	10
70LF-144-01	3/4	130	71.49	10
70LF-145-01	1	172	86.57	10
70LF-146-01	1-1/4	326	121.45	5
70LF-147-01	1-1/2	461	161.67	5
70LF-148-01	2	606	206.21	2
70LF-149-01	2-1/2	1396	785.32	1
70LF-140-01	3	1860	907.97	1
70LF-14A-01	4	2550	1196.63	1

SOLDER ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-202-01	3/8	56	24.52	10
70LF-203-01	1/2	63	24.52	10
70LF-204-01	3/4	130	40.46	10
70LF-205-01	1	172	50.96	10
70LF-206-01	1-1/4	326	85.47	5
70LF-207-01	1-1/2	461	109.13	5
70LF-208-01	2	606	130.10	2
70LF-209-01	2-1/2	1396	559.17	1
70LF-200-01	3	1860	645.16	1
70LF-20A-01	4	2550	852.43	1

SOLDER ENDS W/ 316SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-242-01	3/8	56	33.12	10
70LF-243-01	1/2	63	33.12	10
70LF-244-01	3/4	130	59.80	10
70LF-245-01	1	172	73.02	10
70LF-246-01	1-1/4	326	121.43	5
70LF-247-01	1-1/2	461	161.66	5
70LF-248-01	2	606	206.20	2
70LF-249-01	2-1/2	1396	785.32	1
70LF-240-01	3	1860	907.92	1
70LF-24A-01	4	2550	1196.63	1

THREADED ENDS - SINGLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-303-01	1/2	96	36.34	10
70LF-304-01	3/4	190	61.72	10
70LF-305-01A	1	245	83.35	10
70LF-306-01	1-1/4	432	141.67	5
70LF-307-01	1-1/2	582	177.32	5
70LF-308-01	2	855	282.18	2

SOLDER ENDS - SINGLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-404-01	3/4	190	61.71	10
70LF-405-01A	1	245	83.35	10
70LF-406-01	1-1/4	432	141.66	5
70LF-407-01	1-1/2	582	177.31	5
70LF-408-01	2	855	282.17	2

THREADED ENDS - MALE X FEMALE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-803-01	1/2	63	28.71	10
70LF-804-01	3/4	130	45.80	10
70LF-805-01	1	172	65.36	10
70LF-806-01	1-1/4	326	106.34	5

70LF-HC SERIES

LEAD FREE BRONZE BALL VALVE - HOSE THREAD

THREADED ENDS W/ HOSE CAP & CHAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-103-HC	1/2	63	41.24	10
70LF-104-HC	3/4	139	58.25	10
70LF-105-HC	1	172	67.99	10

SOLDER ENDS W/ HOSE CAP & CHAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-203-HC	1/2	71	41.24	10
70LF-204-HC	3/4	144	58.25	10

71 SERIES

BRONZE BALL VALVE - MOUNTING PADS

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
71-104-01	3/4	163	39.77	10
71-105-01	1	186	49.48	10
71-106-01	1-1/4	339	76.42	5
71-107-01	1-1/2	468	93.14	5
71-108-01	2	572	119.76	2
71-100-01	3	1860	594.79	1

THREADED ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
71-144-01	3/4	161	60.31	10
71-145-01	1	182	72.94	10
71-146-01	1-1/4	336	114.47	5
71-147-01	1-1/2	460	148.85	5
71-148-01	2	564	207.78	2
71-140-01	3	1965	873.43	1

71-500 SERIES

BRONZE BALL VALVE - MOUNTING PADS

SPRING RETURN HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
71-501-01	1/4	147	127.17	10
71-502-01	3/8	145	127.17	10
71-503-01	1/2	135	127.17	10
71-504-01	3/4	233	142.44	5
71-505-01	1	259	152.09	5
71-506-01	1-1/4	418	196.64	4
71-507-01	1-1/2	531	233.94	2
71-508-01	2	641	275.22	2

72 & 72-A SERIES

CARBON STEEL BALL VALVE

HIGH PRESSURE - FULL PORT (EXCEPT 2")

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-103-01	1/2	198	68.15	6
72-104-01	3/4	309	84.67	4
72-105-01	1	487	127.67	4
72-106-01	1-1/4	767	195.15	2
72-107-01	1-1/2	1050	246.14	2
72-108-01	2	1526	303.11	1

HIGH PRESSURE - FULL PORT (EXCEPT 2") W/ 316 BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-143-01	1/2	198	84.08	6
72-144-01	3/4	309	107.43	4
72-145-01	1	487	152.32	4
72-146-01	1-1/4	767	220.26	2
72-147-01	1-1/2	1050	278.81	2
72-148-01	2	1526	349.62	1

SAE STRAIGHT THREAD

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-901-01	1/4	209	73.05	6
72-902-01	3/8	206	73.05	6
72-903-01	1/2	256	73.05	6
72-904-01	3/4	307	92.40	4
72-905-01	1	491	135.64	4
72-906-01	1-1/4	773	208.32	2
72-907-01	1-1/2	1021	270.63	2
72-908-01	2	1488	330.94	1

HIGH PRESSURE - FULL PORT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-103-01A	1/2	236	68.15	6
72-104-01A	3/4	307	84.67	4
72-105-01A	1	491	127.67	4
72-106-01A	1-1/4	773	195.15	2
72-107-01A	1-1/2	1021	246.14	2
72-108-01A	2	1488	303.11	1

HIGH PRESSURE - FULL PORT W/ 316 BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-143-01A	1/2	256	84.08	6
72-144-01A	3/4	307	107.43	4
72-145-01A	1	491	152.32	4
72-146-01A	1-1/4	773	220.26	2
72-147-01A	1-1/2	1021	278.81	2
72-148-01A	2	1488	349.62	1

SAE STRAIGHT THREAD

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
72-901-01A	1/4	209	73.05	6
72-902-01A	3/8	206	73.05	6
72-903-01A	1/2	256	73.05	6
72-904-01A	3/4	307	92.40	4
72-905-01A	1	491	135.64	4
72-906-01A	1-1/4	773	208.32	2
72-907-01A	1-1/2	1021	270.63	2
72-908-01A	2	1488	330.94	1

73A SERIES

A105 CARBON STEEL BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
73A-101-01A	1/4	61	28.42	10
73A-102-01A	3/8	63	28.42	10
73A-103-01A	1/2	75	30.88	10
73A-104-01A	3/4	158	44.59	10
73A-105-01A	1	209	60.00	10
73A-106-01	1-1/4	374	102.53	5
73A-107-01	1-1/2	530	129.90	5
73A-108-01	2	803	178.87	2

THREADED ENDS W/ 316 SS BALL & STEM NACE MR01-75

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
73A-141-01A	1/4	61	42.11	10
73A-142-01A	3/8	63	42.11	10
73A-143-01A	1/2	75	44.54	10
73A-144-01A	3/4	158	69.73	10
73A-145-01A	1	209	85.07	10
73A-146-01	1-1/4	374	132.22	5
73A-147-01	1-1/2	530	168.69	5
73A-148-01	2	803	221.04	2

73 SERIES

CARBON STEEL BALL VALVE - DOUBLE UNION

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
73-301-01	1/4	351	127.85	6
73-302-01	3/8	345	127.85	6
73-303-01	1/2	335	127.85	6
73-304-01	3/4	448	170.94	4
73-305-01	1	704	216.53	4
73-306-01	1-1/4	996	314.49	2
73-307-01	1-1/2	1483	414.80	2
73-308-01	2	2050	467.19	1

THREADED ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
73-341-01	1/4	351	136.95	6
73-342-01	3/8	345	136.95	6
73-343-01	1/2	335	136.95	6
73-344-01	3/4	448	193.70	4
73-345-01	1	704	241.56	4
73-346-01	1-1/4	996	339.59	2
73-347-01	1-1/2	1483	446.70	2
73-348-01	2	2050	512.80	1

SOCKET WELD ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
73-403-01	1/2	335	127.85	6
73-404-01	3/4	448	170.94	4
73-405-01	1	704	216.53	4
73-406-01	1-1/4	996	314.49	2
73-407-01	1-1/2	1483	414.80	2
73-408-01	2	2050	467.19	1

74 SERIES

NICKEL BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
74-103-01A	1/2	58	POA	10
74-104-01A	3/4	118	POA	10
74-105-01A	1	157	POA	10
74-107-01	1-1/2	411	POA	5
74-108-01	2	602	POA	2

75 SERIES

BRONZE BALL VALVE - PAD LOCKING

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
75-101-01	1/4	80	37.01	10
75-102-01	3/8	77	37.01	10
75-103-01	1/2	70	37.01	10
75-104-01	3/4	203	58.70	10
75-105-01	1	183	58.70	10
75-106-01	1-1/4	348	90.10	5
75-107-01	1-1/2	423	108.97	5
75-108-01	2	569	129.48	2

THREADED ENDS W/ (-41) AUTOMATIC DRAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
75-101-41	1/4	80	39.68	10
75-102-41	3/8	77	39.68	10
75-103-41	1/2	70	39.68	10
75-104-41	3/4	203	61.33	10
75-105-41	1	183	63.98	10
75-106-41	1-1/4	348	98.09	5
75-107-41	1-1/2	423	116.93	5
75-108-41	2	569	137.47	2

76 SERIES

CF8M STAINLESS STEEL BALL VALVE

THREADED ENDS W/ MOUNTING PAD DRILLED & TAPPED

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76-101-01A	1/4	58	61.61	10
76-102-01A	3/8	54	61.61	10
76-103-01A	1/2	63	61.61	10
76-104-01A	3/4	127	102.10	10
76-105-01A	1	163	124.39	10
76-106-01	1-1/4	306	236.89	5
76-107-01	1-1/2	404	247.54	5
76-108-01	2	605	321.34	2
76-109-01	2-1/2	1557	1094.11	1
76-100-01	3	1679	1189.53	1

THREADED ENDS - 3 WAY

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76-601-01A	1/4	70	129.54	6
76-602-01A	3/8	66	129.54	6
76-603-01A	1/2	75	129.54	6
76-604-01A	3/4	145	173.52	6
76-605-01A	1	186	218.11	6
76-607-01	1-1/2	467	442.39	5
76-608-01	2	702	577.85	2

THREADED ENDS W/ (-27) SS LATCH LOCK LEVER

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76-101-27A	1/4	58	65.80	10
76-102-27A	3/8	54	65.80	10
76-103-27A	1/2	63	65.80	10
76-104-27A	3/4	127	106.30	10
76-105-27A	1	163	128.59	10
76-106-27	1-1/4	307	241.14	5
76-107-27	1-1/2	399	251.75	5
76-108-27	2	599	325.57	2
76-109-27	2-1/2	1557	1106.56	1
76-100-27	3	1679	1202.03	1

THREADED ENDS - DOUBLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76-303-01	1/2	288	327.05	6
76-304-01	3/4	381	410.27	4
76-305-01	1	598	561.92	4
76-306-01	1-1/4	847	731.06	2
76-307-01	1-1/2	1261	983.10	2
76-308-01	2	1688	1211.65	1

THREADED ENDS W/ SPRING RETURN HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76-501-01A	1/4	126	131.02	10
76-502-01A	3/8	125	131.02	10
76-503-01A	1/2	131	131.02	10
76-504-01A	3/4	198	169.61	5
76-505-01A	1	235	190.65	5
76-506-01	1-1/4	396	310.40	4
76-507-01	1-1/2	478	335.00	2
76-508-01	2	666	415.59	2

76F SERIES

CF8M STAINLESS STEEL BALL VALVE

THREADED ENDS - 1000 WOG

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76F-101-01	1/4	47	33.96	10
76F-102-01	3/8	43.5	33.96	10
76F-103-01A	1/2	55	35.75	10
76F-104-01A	3/4	153.5	48.25	10
76F-105-01A	1	280.5	69.71	5
76F-106-01A	1-1/4	412	89.34	5
76F-107-01A	1-1/2	573.5	134.01	2
76F-108-01A	2	973	169.76	2
76F-100-01A	3	2240	601.99	1

THREADED ENDS - 1000 WOG W/ (-27) SS LATCH LOCK LEVER

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
76F-101-27	1/4	47	38.15	10
76F-102-27	3/8	43.5	38.15	10
76F-103-27A	1/2	55	39.96	10
76F-104-27A	3/4	153.5	52.46	10
76F-105-27A	1	280.5	73.89	5
76F-106-27A	1-1/4	412	93.56	5
76F-107-27A	1-1/2	573.5	146.53	2
76F-108-27A	2	973	182.26	2
76F-100-27A	3	2274	664.58	1

77 SERIES

BRONZE BALL VALVE

THREADED ENDS - FULL PORT - MOUNTING PADS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-101-01	1/4	79	24.55	10
77-102-01	3/8	75	24.55	10
77-103-01	1/2	69	24.55	10
77-104-01	3/4	183	44.75	10
77-105-01	1	332	62.69	5
77-106-01	1-1/4	505	88.45	5
77-107-01	1-1/2	671	111.62	2
77-108-01	2	1175	193.95	2
77-109-01	2-1/2	1725	504.05	1

THREADED ENDS - FULL PORT - MOUNTING PADS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-141-01	1/4	79	33.95	10
77-142-01	3/8	75	33.95	10
77-143-01	1/2	69	33.95	10
77-144-01	3/4	183	63.68	10
77-145-01	1	332	101.51	10
77-146-01	1-1/4	505	136.17	5
77-147-01	1-1/2	671	167.51	2
77-148-01	2	1175	277.44	2
77-149-01	2-1/2	1725	769.03	1

THREADED ENDS - FULL PORT - O-RING BOSS - SAE STRAIGHT THREAD

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-901-01	1/4	79	28.02	10
77-902-01	3/8	75	28.02	10
77-903-01	1/2	69	28.02	10
77-904-01	3/4	183	51.11	10
77-905-01	1	332	71.70	5
77-906-01	1-1/4	505	101.05	5
77-907-01	1-1/2	671	127.58	2
77-908-01	2	1175	221.62	1

SOLDER ENDS - FULL PORT - NO PADS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-204-01	3/4	165	42.62	10
77-205-01	1	299	59.43	5
77-206-01	1-1/4	455	80.00	5
77-207-01	1-1/2	604	103.18	2
77-208-01	2	1058	186.64	1
77-209-01	2-1/2	1553	494.63	1

SOLDER ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-244-01	3/4	165	61.61	10
77-245-01	1	299	98.28	10
77-246-01	1-1/4	455	127.71	5
77-247-01	1-1/2	604	159.05	2
77-248-01	2	1058	270.15	1
77-249-01	2-1/2	1553	734.37	1

SECURE VENT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77-101-SV	1/4	10	67.91	10
77-102-SV	3/8	10	67.91	10
77-103-SV	1/2	10	67.91	10
77-104-SV	3/4	10	88.11	10
77-105-SV	1	10	106.04	5
77-106-SV	1-1/4	5	140.48	5
77-107-SV	1-1/2	5	163.65	2
77-108-SV	2	2	263.33	2

77C-A SERIES

BRONZE BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-101-01A	1/4	60	17.05	10
77C-102-01A	3/8	55	17.05	10
77C-103-01A	1/2	64	17.05	10
77C-104-01A	3/4	100	27.79	10
77C-105-01A	1	183	35.11	5
77C-106-01A	1-1/4	420	81.96	6
77C-107-01A	1-1/2	460	108.73	6
77C-108-01A	2	790	178.41	5
77C-109-01A	2-1/2	1,643	516.99	1

SOLDER ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-203-01A	1/2	55	17.05	8
77C-204-01A	3/4	91	27.79	10
77C-205-01A	1	151	35.11	5
77C-206-01A	1-1/4	386	81.96	6
77C-207-01A	1-1/2	590	108.73	6
77C-208-01A	2	750	178.41	4
77C-209-01A	2-1/2	1,450	516.99	1

THREADED ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-141-01A	1/4	60	26.45	10
77C-142-01A	3/8	55	26.45	10
77C-143-01A	1/2	64	26.45	10
77C-144-01A	3/4	100	49.34	10
77C-145-01A	1	183	59.87	5
77C-146-01A	1-1/4	420	128.80	5
77C-147-01A	1-1/2	460	157.22	2
77C-148-01A	2	790	242.10	2
77C-149-01A	2-1/2	1,643	683.11	1

SOLDER ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-243-01A	1/2	55	26.45	10
77C-244-01A	3/4	91	49.34	10
77C-245-01A	1	151	59.87	5
77C-246-01A	1-1/4	386	128.80	5
77C-247-01A	1-1/2	590	157.22	2
77C-248-01A	2	750	242.10	2
77C-249-01A	2-1/2	1,450	683.11	1

THREADED ENDS W/ (-04) STEM EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-101-04A	1/4	60	37.09	1
77C-102-04A	3/8	55	37.09	1
77C-103-04A	1/2	64	37.09	1
77C-104-04A	3/4	124	47.81	1
77C-105-04A	1	218	55.14	1
77C-106-04A	1-1/4	455	107.99	1
77C-107-04A	1-1/2	503	134.75	1
77C-108-04A	2	850	203.20	1
77C-109-04A	2-1/2	1,703	546.38	1

SOLDER ENDS W/ (-04) STEM EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-203-04A	1/2	64	37.09	1
77C-204-04A	3/4	124	47.81	1
77C-205-04A	1	218	55.14	1
77C-206-04A	1-1/4	455	107.99	1
77C-207-04A	1-1/2	503	134.75	1
77C-208-04A	2	850	203.20	1
77C-209-04A	2-1/2	1,703	546.38	1

THREADED ENDS W/ (-04) STEM EXT. & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-141-04A	1/4	60	46.49	1
77C-142-04A	3/8	55	46.48	1
77C-143-04A	1/2	64	46.49	1
77C-144-04A	3/4	124	69.38	1
77C-145-04A	1	218	79.89	1
77C-146-04A	1-1/4	455	154.84	1
77C-147-04A	1-1/2	503	183.27	1
77C-148-04A	2	850	266.90	1
77C-149-04A	2-1/2	1,703	723.77	1

SOLDER ENDS W/ (-04) STEM EXT. & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-243-04A	1/2	64	46.49	1
77C-244-04A	3/4	124	69.38	1
77C-245-04A	1	218	79.89	1
77C-246-04A	1-1/4	455	154.84	1
77C-247-04A	1-1/2	503	183.27	1
77C-248-04A	2	850	266.90	1
77C-249-04A	2-1/2	1,703	723.77	1

77C-A SERIES

BRONZE BALL VALVE

THREADED ENDS W/ (-11) THERMA-SEAL™ HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-101-11A	1/4	60	38.41	1
77C-102-11A	3/8	55	38.41	1
77C-103-11A	1/2	64	38.41	1
77C-104-11A	3/4	100	51.91	1
77C-105-11A	1	183	59.25	1
77C-106-11A	1-1/4	420	121.94	1
77C-107-11A	1-1/2	460	148.69	1
77C-108-11A	2	790	228.30	1

THREADED ENDS W/ (-27) LATCH LOCK HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-101-27A	1/4	60	23.54	10
77C-102-27A	3/8	55	23.54	10
77C-103-27A	1/2	64	23.54	10
77C-104-27A	3/4	100	35.96	10
77C-105-27A	1	183	43.33	5
77C-106-27A	1-1/4	420	91.75	6
77C-107-27A	1-1/2	460	118.49	6
77C-108-27A	2	790	187.73	5
77C-109-27A	2-1/2	1640	533.00	1

SOLDER ENDS W/ (-27) LATCH LOCK HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-203-27A	1/2	64	23.54	8
77C-204-27A	3/4	124	35.96	10
77C-205-27A	1	218	43.33	5
77C-206-27A	1-1/4	455	91.75	6
77C-207-27A	1-1/2	503	118.49	6
77C-208-27A	2	850	187.73	4

THREADED ENDS W/ (-27) LATCH LOCK HANDLE & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-141-27A	1/4	60	32.90	10
77C-142-27A	3/8	55	32.90	10
77C-143-27A	1/2	64	32.90	10
77C-144-27A	3/4	100	57.53	10
77C-145-27A	1	183	68.08	5
77C-146-27A	1-1/4	420	138.61	6
77C-147-27A	1-1/2	460	166.98	6
77C-148-27A	2	790	251.41	5

SOLDER ENDS W/ (-27) LATCH LOCK HANDLE & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77C-243-27A	1/2	64	32.90	8
77C-244-27A	3/4	124	57.53	10
77C-245-27A	1	218	68.08	5
77C-246-27A	1-1/4	455	138.61	6
77C-247-27A	1-1/2	503	166.98	6
77C-248-27A	2	850	251.41	4

77C-A SERIES

ADDERS

-04 2-1/4" CS STEM EXT. STEM KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2332-01	6.78
1/2" - 3/4"	78-2333-01	8.19
1" - 1-1/4"	78-443-01	10.62
1-1/2" - 2-1/2"	78-469-01	12.96

-07 STEEL TEE HANDLE KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2508-01	3.77
1/2" - 3/4"	78-2509-01	4.03
1" - 1-1/4"	78-2510-01	4.31
1-1/2" - 2"	78-2511-01	5.11

-10 STAINLESS STEEL LEVER & NUT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2630-01	13.39
1/2" - 3/4"	78-2631-01	13.39
1" - 1-1/4"	78-2632-01	13.39
1-1/2"	78-2633-01	16.28
2" - 2-1/2"	78-2634-01	16.28

-11 THERMA-SEAL™ INSULATING T-HANDLE KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2330-01	13.53
1/2"-3/4"	78-2331-01	13.53
1" - 1-1/4"	78-2191-01	13.53
1-1/2" - 2"	78-2192-01	19.30

-27 LATCH LOCK LEVER KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2500-01	6.99
1/2"-3/4"	78-2501-01	8.61
1" - 1-1/4"	78-2502-01	9.69
1-1/2" - 2-1/2"	78-2503-01	10.23

-50 2-1/4" CS LOCKING STEM EXT. KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	Refer to 70LF series - 1/4" - 3/8" is Full Port	
1/2" - 3/4"	78-2596-01	30.18
1" - 1-1/4"	78-002-01	30.18
1-1/2"	78-003-01	45.27
2"	78-004-01	45.27

-92 MEMORY STOP

SIZE (IN.)	PART NO.	PRICE EA.
1/2" - 3/4"	78-295-01	2.69
1" - 1-1/4"	78-318-01	3.27
1-1/2" - 2"	78-319-01	3.27

-94 2-1/4" EXT. STEM & BALANCING STOP (MEMORY STOP)

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2597-01	23.59
1/2"-3/4"	78-2598-01	23.59
1" - 1-1/4"	78-467-01	12.96
1-1/2" - 2"	78-585-01	15.34

-01 REPLACEMENT HANDLE

SIZE (IN.)	PART NO.	PRICE EA.
1/4" - 3/8"	78-2490-01	4.31
1/2"-3/4"	78-2491-01	4.58
1" - 1-1/4"	78-2492-01	4.84
1-1/2"	78-2493-01	5.65
2" - 2-1/2"	78-2494-01	5.92

PACKING WRENCH

PART NO.		PRICE EA.
H371400	Domestic Valves	8.78 ea.
H380700	Apollo International Valves	12.53 ea.

77C-A SEAL REPAIR KITS

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4 - 3/8	77C-002-01A	5.69
1/2"	77C-003-01A	5.69
3/4"	77C-004-01A	9.21
1	77C-005-01A	11.82
1-1/4"	77C-006-01A	27.15
1-1/2"	77C-007-01A	35.92
2"	77C-008-01A	61.30
2-1/2"	77C-009-01A	52.08

77CLF-A SERIES

LEAD FREE BRONZE BALL VALVE

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-01A	1/4	60	23.21	10
77CLF-102-01A	3/8	55	23.21	10
77CLF-103-01A	1/2	64	23.21	10
77CLF-104-01A	3/4	87	37.80	10
77CLF-105-01A	1	183	47.79	5
77CLF-106-01A	1-1/4	420	111.51	6
77CLF-107-01A	1-1/2	650	147.96	6
77CLF-108-01A	2	790	220.88	5
77CLF-109-01A	2-1/2	1,712	640.08	1

SOLDER ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-203-01A	1/2	55	23.21	8
77CLF-204-01A	3/4	91	37.80	10
77CLF-205-01A	1	151	47.79	5
77CLF-206-01A	1-1/4	386	111.51	6
77CLF-207-01A	1-1/2	590	147.96	6
77CLF-208-01A	2	1,081	220.88	4
77CLF-209-01A	2-1/2	1,450	640.08	1

THREADED ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-141-01A	1/4	60	35.97	10
77CLF-142-01A	3/8	55	35.97	10
77CLF-143-01A	1/2	64	35.97	10
77CLF-144-01A	3/4	87	67.14	10
77CLF-145-01A	1	183	84.72	5
77CLF-146-01A	1-1/4	420	182.27	6
77CLF-147-01A	1-1/2	650	222.45	6
77CLF-148-01A	2	790	311.75	5
77CLF-149-01A	2-1/2	1,712	845.75	1

SOLDER ENDS W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-243-01A	1/2	55	35.97	8
77CLF-244-01A	3/4	91	67.14	10
77CLF-245-01A	1	151	84.72	5
77CLF-246-01A	1-1/4	386	182.27	6
77CLF-247-01A	1-1/2	590	222.45	6
77CLF-248-01A	2	1,081	311.75	4
77CLF-249-01A	2-1/2	1,450	845.75	1

THREADED ENDS W/ (-04) STEM EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-04A	1/4	60	43.24	1
77CLF-102-04A	3/8	55	44.24	1
77CLF-103-04A	1/2	64	43.24	1
77CLF-104-04A	3/4	87	57.83	1
77CLF-105-04A	1	183	67.82	1
77CLF-106-04A	1-1/4	420	137.55	1
77CLF-107-04A	1-1/2	650	174.00	1
77CLF-108-04A	2	790	246.92	1
77CLF-109-04A	2-1/2	1,712	671.35	1

SOLDER ENDS W/ (-04) STEM EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-203-04A	1/2	64	43.24	1
77CLF-204-04A	3/4	87	57.83	1
77CLF-205-04A	1	183	67.82	1
77CLF-206-04A	1-1/4	420	137.55	1
77CLF-207-04A	1-1/2	650	174.00	1
77CLF-208-04A	2	790	246.92	1
77CLF-209-04A	2-1/2	1,712	676.42	1

THREADED ENDS W/ (-04) STEM EXT. & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-141-04A	1/4	60	58.24	1
77CLF-142-04A	3/8	55	56.61	1
77CLF-143-04A	1/2	64	58.24	1
77CLF-144-04A	3/4	87	90.66	1
77CLF-145-04A	1	183	105.57	1
77CLF-146-04A	1-1/4	420	209.35	1
77CLF-147-04A	1-1/2	650	249.53	1
77CLF-148-04A	2	790	338.82	1
77CLF-149-04A	2-1/2	1,712	887.96	1

SOLDER ENDS W/ (-04) STEM EXT. & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-243-04A	1/2	64	58.24	1
77CLF-244-04A	3/4	87	90.66	1
77CLF-245-04A	1	183	105.57	1
77CLF-246-04A	1-1/4	420	209.35	1
77CLF-247-04A	1-1/2	650	249.53	1
77CLF-248-04A	2	790	338.82	1
77CLF-249-04A	2-1/2	1,712	912.10	1

77CLF-A SERIES

LEAD FREE BRONZE BALL VALVE

THREADED ENDS W/ (-07) TEE HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-07A	1/4	60	29.64	1
77CLF-102-07A	3/8	55	29.64	1
77CLF-103-07A	1/2	64	29.64	1
77CLF-104-07A	3/4	87	44.44	1
77CLF-105-07A	1	183	54.42	1
77CLF-106-07A	1-1/4	420	126.20	1
77CLF-107-07A	1-1/2	650	162.65	1
77CLF-108-07A	2	790	235.57	1

THREADED ENDS W/ (-10) STAINLESS STEEL LEVER & NUT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-10A	1/4	60	36.59	1
77CLF-102-10A	3/8	55	36.59	1
77CLF-103-10A	1/2	64	36.59	1
77CLF-104-10A	3/4	87	51.19	1
77CLF-105-10A	1	183	61.17	1
77CLF-106-10A	1-1/4	420	127.79	1
77CLF-107-10A	1-1/2	650	164.23	1
77CLF-108-10A	2	790	237.15	1

THREADED ENDS W/ (-11) THERMA-SEAL™ HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-11A	1/4	60	44.58	1
77CLF-102-11A	3/8	55	44.58	1
77CLF-103-11A	1/2	64	44.58	1
77CLF-104-11A	3/4	87	61.93	1
77CLF-105-11A	1	183	71.91	1
77CLF-106-11A	1-1/4	420	151.48	1
77CLF-107-11A	1-1/2	650	187.93	1
77CLF-108-11A	2	790	273.27	1

THREADED ENDS W/ (-27) LATCH LOCK HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-101-27A	1/4	60	29.64	1
77CLF-102-27A	3/8	55	29.64	1
77CLF-103-27A	1/2	64	29.64	1
77CLF-104-27A	3/4	87	46.00	1
77CLF-105-27A	1	183	55.99	1
77CLF-106-27A	1-1/4	420	121.28	1
77CLF-107-27A	1-1/2	650	157.72	1
77CLF-108-27A	2	790	230.64	1
77CLF-109-27A	2-1/2	1,712	650.31	1

SOLDER ENDS W/ (-27) LATCH LOCK HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-203-27A	1/2	55	29.64	1
77CLF-204-27A	3/4	91	46.00	1
77CLF-205-27A	1	151	55.99	1
77CLF-206-27A	1-1/4	386	121.28	1
77CLF-207-27A	1-1/2	590	157.72	1
77CLF-208-27A	2	1,081	230.64	1
77CLF-209-27A	2-1/2	1,450	650.31	1

THREADED ENDS W/ (-27) LATCH LOCK HANDLE & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-141-27A	1/4	60	42.41	1
77CLF-142-27A	3/8	55	42.41	1
77CLF-143-27A	1/2	64	44.11	1
77CLF-144-27A	3/4	87	78.35	1
77CLF-145-27A	1	183	93.26	1
77CLF-146-27A	1-1/4	420	192.42	1
77CLF-147-27A	1-1/2	650	232.61	1
77CLF-148-27A	2	790	321.90	1
77CLF-149-27A	2-1/2	1,712	855.98	1

SOLDER ENDS W/ (-27) LATCH LOCK HANDLE & 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77CLF-243-27A	1/2	55	44.11	1
77CLF-244-27A	3/4	91	78.35	1
77CLF-245-27A	1	151	93.26	1
77CLF-246-27A	1-1/4	386	192.42	1
77CLF-247-27A	1-1/2	590	232.61	1
77CLF-248-27A	2	1,081	321.90	1
77CLF-249-27A	2-1/2	1,450	660.53	1

THREADED ENDS - SINGLE UNION

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
70LF-303-01	1/2	96	36.34	10
77CLF-304-01A	3/4	134	Call for Price	10
77CLF-305-01A	1	236	Call for Price	10
77CLF-306-01A	1-1/4	507	Call for Price	5
77CLF-307-01A	1-1/2	496	Call for Price	5
77CLF-308-01A	2	1006	Call for Price	2

* FOR 1/2" USE FULL PORT 70LF-303-01

77CLF-A SERIES

ADDERS

-04 2-1/4" CS STEM EXT. STEM KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2332-01	6.78
1/2" - 3/4"	78-2333-01	8.19
1" - 1-1/4"	78-443-01	10.62
1-1/2" - 2-1/2"	78-469-01	12.96

-07 STEEL TEE HANDLE KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2508-01	3.77
1/2" - 3/4"	78-2509-01	4.03
1" - 1-1/4"	78-2510-01	4.31
1-1/2" - 2"	78-2511-01	5.11

-10 STAINLESS STEEL LEVER & NUT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2635-01	13.39
1/2" - 3/4"	78-2636-01	13.39
1" - 1-1/4"	78-2637-01	13.39
1-1/2"	78-2638-01	16.28
2" - 2-1/2"	78-2639-01	16.28

-11 THERMA-SEAL™ INSULATING T-HANDLE KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2330-01	13.53
1/2"-3/4"	78-2331-01	13.53
1" - 1-1/4"	78-2191-01	13.53
1-1/2" - 2"	78-2192-01	19.30

-27 LATCH LOCK LEVER KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2602-01	6.99
1/2"-3/4"	78-2603-01	8.61
1" - 1-1/4"	78-2604-01	9.69
1-1/2" - 2-1/2"	78-2605-01	10.23

-50 2-1/4" CS LOCKING STEM EXT. KIT

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	Refer to 70LF series - 1/4" - 3/8" is Full Port	
1-2" - 3/4"	78-2596-01	30.18
1" - 1-1/4"	78-002-01	30.18
1-1/2"	78-003-01	45.27
2"	78-004-01	45.27

-92 MEMORY STOP

SIZE (IN.)	PART NO.	PRICE EA.
1/2" - 3/4"	78-295-01	2.69
1" - 1-1/4"	78-318-01	3.27
1-1/2" - 2"	78-319-01	3.27

-94 2-1/4" EXT. STEM & BALANCING STOP (MEMORY STOP)

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4" - 3/8"	78-2597-01	23.59
1/2"-3/4"	78-2598-01	23.59
1" - 1-1/4"	78-467-01	12.96
1-1/2" - 2"	78-585-01	15.34

-01 REPLACEMENT HANDLE

SIZE (IN.)	PART NO.	PRICE EA.
1/4" - 3/8"	78-2495-01	4.31
1/2"-3/4"	78-2496-01	4.58
1" - 1-1/4"	78-2497-01	4.84
1-1/2"	78-2498-01	5.65
2" - 2-1/2"	78-2499-01	5.92

PACKING WRENCH

PART NO.		PRICE EA.
H371400	Domestic Valves	8.78 ea.
H380700	Apollo International Valves	12.53 ea.

77CLF-A SEAL REPAIR KITS

SIZE (IN.)	KIT PART NO.	PRICE EA.
1/4 - 3/8	77C-002-01A	5.69
1/2"	77C-003-01A	5.69
3/4"	77C-004-01A	9.21
1	77C-005-01A	11.82
1-1/4"	77C-006-01A	27.15
1-1/2"	77C-007-01A	35.92
2"	77C-008-01A	61.30
2-1/2"	77C-009-01A	52.08

77G-UL SERIES UL LISTED BALL VALVE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
77G-103-UL	1/2	63	26.88	1
77G-104-UL	3/4	87	40.14	1
77G-105-UL	1	183	55.92	1

77W & 77WLF APOLLOPRESS BRONZE BALL VALVE

SEE COMMERCIAL PRICE LIST

78 SERIES CF8M STAINLESS STEEL HYDRAULIC VALVE

SAE O-RING x SOCKET WELD

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
78-145-01	3/4	200	322.29	10
78-146-01	1	320	362.49	5

78 SERIES BRONZE BALL VALVE

W/ MOUNTING EARS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
78-248-01	1/4	68	31.99	10
78-250-01	3/8	68	31.99	10
78-256-01	1/2	65	31.99	10
78-438-01	3/4	140	43.76	10

78 SERIES INSTRUMENTATION BALL VALVE

THREADED END - MALE x FEMALE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
78-260-05	1/8	20	15.40	10
78-261-05	1/4	19	15.40	10
78-262-05	1/8	20	15.40	10
78-263-05	1/4	19	15.40	10

THREADED END - MALE x FEMALE (APOLLO® INTERNATIONAL)

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
94-MBV-04	1/8	16	10.37	10
94-MBV-02	1/4	20	10.37	10

78-620 SERIES BRONZE IRRIGATION VALVE

NPT THREADED W/ AUTO DRAIN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
78-621-01	3/4	159	64.04	10
78-622-01	1	192	84.80	10
78-623-01	1-1/4	357	117.55	5
78-624-01	1-1/2	468	133.86	5
78-625-01	2	611	185.18	2

78-620 SERIES BRONZE VALVE - CENTER DRAIN

STANDARD PORT W/ (-10) STAINLESS STEEL LEVER & NUT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
78-664-01	3/4	153	48.42	10
78-665-01	1	186	60.84	10
78-666-01	1-1/4	339	97.77	5
78-667-01	1-1/2	468	114.96	5
78-962-01	2	572	146.84	2

79 SERIES BRONZE VALVE - CENTER DRAIN

FEMALE COPPER TUBE EXTENSIONS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
79-701-01	3/8	94	100.29	1
79-702-01	1/2	94	100.29	1
79-703-01	5/8	94	100.29	1
79-704-01	7/8	131	136.76	1
79-705-01	1-1/8	206	175.08	1
79-706-01	1-3/8	400	395.99	1
79-707-01	1-5/8	425	422.45	1
79-708-01	2-1/8	600	550.04	1
79-709-01	2-5/8	1750	1173.15	1
79-600-01	3-1/8	1760	1246.49	1

7K SERIES BRONZE VALVE

AUTO DRAIN & 1/4" NPT TAPPED DRAIN BOSS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
7K-101-01	1/4	70	25.47	10
7K-102-01	3/8	66	25.47	10
7K-103-01	1/2	73	25.47	10
7K-104-01	3/4	193	51.49	10
7K-105-01	1	342	72.07	10
7K-106-01	1-1/4	515	101.71	5
7K-107-01	1-1/2	681	128.37	5
7K-108-01	2	1185	252.22	2
7K-109-01	2-1/2	1735	604.89	1

1/4" NPT TAPPED VENT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
7K-103-SV	1/2	73	68.84	10
7K-104-SV	3/4	193	94.83	10
7K-105-SV	1	342	115.44	10
7K-106-SV	1-1/4	515	153.74	5
7K-107-SV	1-1/2	681	180.42	5
7K-108-SV	2	1185	321.55	2

80 SERIES BRONZE 2-PIECE VALVE - UL

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
80-101-01	1/4	60	21.30	10
80-102-01	3/8	56	21.30	10
80-103-01	1/2	63	21.30	10
80-104-01	3/4	139	32.46	10
80-105-01	1	172	44.95	10
80-106-01	1-1/4	326	73.64	5
80-107-01	1-1/2	457	89.70	5
80-108-01	2	556	108.80	2
80-109-01	2-1/2	1725	493.71	1
80-100-01	3	1860	591.48	1

82 SERIES

BRONZE 3-PIECE VALVE

THREADED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-101-01	1/4	102	44.91	8
82-102-01	3/8	104	44.91	8
82-103-01	1/2	155	52.04	8
82-104-01	3/4	227	63.86	8
82-105-01	1	328	83.81	6
82-106-01	1-1/4	562	120.48	2
82-107-01	1-1/2	807	155.97	2
82-108-01	2	1442	285.79	1
82-109-01	2-1/2	2661	682.19	1
82A-140-01	3	4300	1248.88	1
82A-14A-01	4	10600	2352.74	1

SOLDER ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-202-01	3/8	99	44.91	8
82-203-01	1/2	146	52.04	8
82-204-01	3/4	207	63.86	8
82-205-01	1	303	83.81	6
82-206-01	1-1/4	502	121.09	2
82-207-01	1-1/2	791	155.97	2
82-208-01	2	1350	285.79	1
82-209-01	2-1/2	2661	620.11	1
82A-240-01	3	4300	1248.88	1
82A-24A-01	4	10600	2352.74	1

THREADED ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-141-01	1/4	102	59.03	8
82-142-01	3/8	104	59.03	8
82-143-01	1/2	153	73.51	8
82-144-01	3/4	224	87.85	8
82-145-01	1	323	127.86	6
82-146-01	1-1/4	568	173.00	2
82-147-01	1-1/2	804	220.49	2
82-148-01	2	1437	360.07	1
82-149-01	2-1/2	2661	735.90	1
82A-140-01	3	4300	1248.88	1
82A-14A-01	4	10600	2352.74	1

SOLDER ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-242-01	3/8	99	59.03	8
82-243-01	1/2	144	73.51	8
82-244-01	3/4	204	87.85	8
82-245-01	1	298	127.86	6
82-246-01	1-1/4	496	173.10	2
82-247-01	1-1/2	787	220.49	2
82-248-01	2	1346	359.91	1
82-249-01	2-1/2	2661	673.84	1
82A-240-01	3	4300	1248.88	1
82A-24A-01	4	10600	2352.74	1

FULL PORT W/ MALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-203-B8	1/2	166	91.42	30
82-204-A8	3/4	237	100.18	24
82-205-B7	1	343	129.19	12
82-206-B7	1-1/4	552	184.03	9
82-207-B2	1-1/2	851	223.72	6
82-208-B7	2	1420	321.14	4
82-209-A2	2-1/2	2681	1174.53	1

FULL PORT W/ 316 SS BALL & STEM & MALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-243-A8	1/2	166	101.25	30
82-244-B3	3/4	237	124.22	24
82-245-B1	1	343	173.23	12
82-246-B0	1-1/4	552	235.91	9
82-247-B2	1-1/2	851	288.24	6
82-248-B2	2	1420	395.26	4
82-249-A2	2-1/2	2681	1228.20	1
82-240-A2	3	4244	1833.89	1
82-24A-A0	4	10650	2668.95	1

FULL PORT - OXYGEN CLEANED W/ MALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-203-A1	1/2	166	103.11	30
82-204-A2	3/4	237	111.91	24
82-205-A1	1	343	140.89	16
82-206-A1	1-1/4	552	195.73	9
82-207-A1	1-1/2	851	235.45	6
82-208-A1	2	1420	332.86	2
82-209-A3	2-1/2	2681	1209.37	1

FULL PORT - OXYGEN CLEANED W/ 316 SS BALL & STEM & MALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-243-A7	1/2	166	112.94	30
82-244-B2	3/4	237	135.90	24
82-245-B0	1	343	184.92	16
82-246-A9	1-1/4	552	247.61	9
82-247-B0	1-1/2	851	299.94	6
82-248-B1	2	1420	406.97	4
82-249-A3	2-1/2	2681	1263.11	1
82-240-A1	3	4244	1868.83	1
82-24A-A1	4	10650	2703.83	1

82 SERIES BRONZE 3-PIECE VALVE

FULL PORT W/ FEMALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-203-C2	1/2	170	87.92	30
82-204-C3	3/4	240	108.28	12
82-205-C2	1	350	138.29	12
82-206-C1	1-1/4	560	187.54	9
82-207-B8	1-1/2	860	232.52	6
82-208-C1	2	1430	351.72	4

FULL PORT - OXYGEN CLEANED W/ FEMALE BRAZED EXT.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82-203-C3	1/2	170	99.61	30
82-204-C4	3/4	240	119.98	12
82-205-C3	1	350	149.97	12
82-206-C2	1-1/4	560	199.20	9
82-207-B9	1-1/2	860	244.26	6
82-208-C2	2	1430	363.39	4
82-209-A4	2-1/2	2681	1209.36	1
82-240-A6	3	4244	1868.83	1

82 SERIES MEDICAL GAS BRONZE 3-PIECE VALVE

MALE BRAZED EXT. W/ STAINLESS STEEL LOCKING HANDLE

PART NO.	SIZE (IN.)	GAUGE PORT	WT./100	PRICE EA.	PIECES/BOX
82-203-F1	1/2	1	187	146.44	16
82-204-F1	3/4	1	289	182.06	12
82-205-F1	1	1	419	209.88	12
82-206-F1	1-1/4	1	714	289.05	9
82-207-F1	1-1/2	1	1018	338.06	6
82-208-F1	2	1	1678	444.95	4
82-209-F1	2-1/2	1	2681	1015.83	1

MALE BRAZED EXT. W/ STANDARD LEVER HANDLE

PART NO.	SIZE (IN.)	GAUGE PORT	WT./100	PRICE EA.	PIECES/BOX
82-203-F2	1/2	1	187	141.73	16
82-204-F2	3/4	1	289	177.35	12
82-205-F2	1	1	419	205.18	12
82-206-F2	1-1/4	1	714	284.31	9
82-207-F2	1-1/2	1	1018	324.05	6
82-208-F2	2	1	1678	430.91	4
82-209-F2	2-1/2	1	2681	1021.16	1

MALE BRAZED EXT. W/ STAINLESS STEEL LOCKING HANDLE & 2 GAUGE PORTS

PART NO.	SIZE (IN.)	GAUGE PORT	WT./100	PRICE EA.	PIECES/BOX
82-203-F3	1/2	2	223	188.76	16
82-204-F3	3/4	2	338	243.38	12
82-205-F3	1	2	403	280.74	12
82-206-F3	1-1/4	2	502	389.77	9
82-207-F3	1-1/2	2	791	458.57	6
82-208-F3	2	2	1350	594.37	4
82-209-F3	2-1/2	2	2681	1044.72	1

82LF SERIES LEAD FREE BRONZE 3-PIECE VALVE

THREADED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82LF-101-01	1/4	104	61.22	8
82LF-102-01	3/8	102	61.22	8
82LF-103-01	1/2	155	70.12	8
82LF-104-01	3/4	227	85.70	8
82LF-105-01	1	328	111.30	6
82LF-106-01	1-1/4	562	155.82	2
82LF-107-01	1-1/2	807	194.78	2
82LF-108-01	2	1442	367.29	1
82LF-109-01	2-1/2	2661	734.58	1

SOLDER ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82LF-203-01	1/2	155	70.12	8
82LF-204-01	3/4	227	85.70	8
82LF-205-01	1	328	111.30	6
82LF-206-01	1-1/4	562	155.82	2
82LF-207-01	1-1/2	807	194.78	2
82LF-208-01	2	1442	367.29	1
82LF-209-01	2-1/2	2661	734.58	1

THREADED ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82LF-141-01	1/4	104	82.36	8
82LF-142-01	3/8	102	82.36	8
82LF-143-01	1/2	155	91.27	8
82LF-144-01	3/4	227	111.30	8
82LF-145-01	1	328	144.69	6
82LF-146-01	1-1/4	562	202.57	2
82LF-147-01	1-1/2	807	253.76	2
82LF-148-01	2	1442	478.59	1
82LF-149-01	2-1/2	2661	918.23	1

SOLDER ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
82LF-243-01	1/2	155	91.27	8
82LF-244-01	3/4	227	111.30	8
82LF-245-01	1	328	144.69	6
82LF-246-01	1-1/4	562	202.57	2
82LF-247-01	1-1/2	807	253.76	2
82LF-248-01	2	1442	478.59	1
82LF-249-01	2-1/2	2661	918.23	1

83A SERIES CARBON STEEL 3-PIECE VALVE

THREADED END - FULL PORT - 1500 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83A-141-01	1/4	230	96.57	8
83A-142-01	3/8	230	96.57	8
83A-143-01	1/2	230	119.67	8
83A-144-01	3/4	360	158.85	6
83A-145-01	1	570	198.06	4
83A-146-01	1-1/4	1430	264.09	2
83A-147-01	1-1/2	1430	344.55	2
83A-148-01	2	2760	455.99	1
83R-140-01*	3	4115	1852.21	1

BUTTWELD END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83A-543-01	1/2	230	125.36	8
83A-544-01	3/4	360	166.66	6
83A-545-01	1	570	208.33	4
83A-547-01	1-1/2	1438	362.81	2
83A-548-01	2	2760	488.62	1

SOCKET WELD END - FULL PORT - 1500 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83A-241-01	1/4	230	96.57	8
83A-242-01	3/8	230	96.57	8
83A-243-01	1/2	230	119.67	8
83A-244-01	3/4	400	158.85	6
83A-245-01	1	570	198.06	4
83A-246-01	1-1/4	1420	264.09	2
83A-247-01	1-1/2	1438	344.55	2
83A-248-01	2	2760	455.99	1
83R-240-01*	3	4036	1848.60	1

83B SERIES CARBON STEEL 3-PIECE VALVE (ANSI B16.34)

THREADED END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83B-141-01	1/4	230	133.89	8
83B-142-01	3/8	230	133.89	8
83B-143-01	1/2	230	141.55	8
83B-144-01	3/4	360	195.17	6
83B-145-01	1	570	256.53	4
83B-146-01	1-1/4	1438	318.84	2
83B-147-01	1-1/2	1438	437.35	2
83B-148-01	2	2760	798.04	1

BUTTWELD END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83B-543-01	1/2	230	147.22	8
83B-544-01	3/4	360	202.97	6
83B-545-01	1	570	266.77	4
83B-547-01	1-1/2	1438	455.62	2
83B-548-01	2	2760	830.69	1

SOCKET WELD END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83B-241-01	1/4	230	133.89	8
83B-242-01	3/8	230	133.89	8
83B-243-01	1/2	230	141.55	8
83B-244-01	3/4	360	195.17	6
83B-245-01	1	570	256.53	4
83B-246-01	1-1/4	1438	318.84	2
83B-247-01	1-1/2	1438	437.35	2
83B-248-01	2	2760	798.04	1

83R SERIES CARBON STEEL 3-PIECE VALVE

THREADED END - FULL PORT - 800 LB. W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83R-147-01	1-1/2"	754	313.22	2
83R-148-01	2	1302	414.54	1
83R-140-01	3	4115	1852.21	1

SOCKET WELD END - FULL PORT - 800 LB. W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
83R-247-01	1-1/2"	727	313.22	2
83R-248-01	2	1251	414.54	1
83R-240-01	3	4036	1852.21	1

85R SERIES STAINLESS STEEL 3-PIECE VALVE

THREADED END - STANDARD PORT - 800 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
85R-108-01	2	712	536.09	1

SOCKET WELD END - STANDARD PORT - 800 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
85R-208-01	2	712	536.09	1

86A SERIES STAINLESS STEEL 3-PIECE VALVE

THREADED END - FULL PORT - 1500 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86A-101-01	1/4	230	172.70	8
86A-102-01	3/8	230	172.70	8
86A-103-01	1/2	230	195.14	8
86A-104-01	3/4	360	281.44	6
86A-105-01	1	570	337.74	4
86A-106-01	1-1/4	1438	394.02	2
86A-107-01	1-1/2	1438	525.38	2
86A-108-01	2	2760	694.26	1
86R-100-01*	3	4115	1765.55	1

SOCKET WELD END - FULL PORT - 1500 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86A-201-01	1/4	230	172.70	8
86A-202-01	3/8	230	172.70	8
86A-203-01	1/2	230	195.14	8
86A-204-01	3/4	398	281.44	6
86A-205-01	1	570	337.74	4
86A-206-01	1-1/4	1452	394.02	2
86A-207-01	1-1/2	1438	525.38	2
86A-208-01	2	2760	694.26	1
86R-200-01*	3	4036	1765.53	1

BUTTWELD END - FULL PORT - 1500 LB. (SCH40)

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86A-503-01	1/2	230	202.26	8
86A-504-01	3/4	360	292.12	6
86A-505-01	1	570	351.95	4
86A-507-01	1-1/2	1438	546.67	2
86A-508-01	2	2760	736.88	1

86B SERIES STAINLESS STEEL 3-PIECE VALVE (ANSI B16.34)

THREADED END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86B-101-01	1/4	230	193.81	8
86B-102-01	3/8	230	193.81	8
86B-103-01	1/2	230	224.60	8
86B-104-01	3/4	360	316.62	6
86B-105-01	1	570	374.59	4
86B-106-01	1-1/4	1438	473.69	2
86B-107-01	1-1/2	1438	633.73	2
86B-108-01	2	2760	1107.59	1

SOCKET WELD END - FULL PORT - CLASS 600

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86B-201-01	1/4	230	193.81	8
86B-202-01	3/8	230	193.81	8
86B-203-01	1/2	230	224.62	8
86B-204-01	3/4	360	316.62	6
86B-205-01	1	570	374.59	4
86B-206-01	1-1/4	1438	473.70	2

BUTTWELD END - FULL PORT - CLASS 600 (SCH40)

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86B-503-01	1/2	230	231.70	8
86B-504-01	3/4	360	327.27	6
86B-505-01	1	570	388.79	4
86B-507-01	1-1/2	1438	655.05	2
86B-508-01	2	2760	1150.21	1

86R SERIES STAINLESS STEEL 3-PIECE VALVE

THREADED END - FULL PORT - 800 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86R-108-01	2	1273	661.20	1
86R-100-01	3	4115	1765.55	1

SOCKET WELD END - FULL PORT - 800 LB.

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
86R-208-01	2	1242	661.20	1
86R-200-01	3	4036	1765.55	1

83A, 83B, 86A, 86B SERIES

ADDERS

-04 2-1/4" STEM EXTENSION

SIZE (IN.)	PRICE EA.
1/4" - 3/4"	76.74
1" - 2"	109.42

-14 VENTED BALL (UNIDIRECTIONAL)

SIZE (IN.)	PRICE EA.
1/4" - 1-1/2"	4.97
2"	6.60

-15 ROUND HANDLE

SIZE (IN.)	PRICE EA.
1/4" - 3/4"	54.22
1" - 2"	77.68

-21 UHMWPE TRIM - B SERIES ONLY

SIZE (IN.)	PRICE EA.
1/4" - 3/4"	19.88
1" - 1-1/4"	33.80
1-1/2" - 2"	34.32

-24 GRAPHITE STEM PACKING B SERIES ONLY

SIZE (IN.)	PRICE EA.
1/4"	5.83
3/8"	5.83
1/2"	8.18
3/4"	9.29
1"	11.58
1-1/4"	12.75
1-1/2"	13.88
2"	20.77

-38 PEEK SEATS, GRAPHITE STEM PACKING & GASKETS - B SERIES ONLY

SIZE (IN.)	PRICE EA.
1/4" - 1/2"	203.87
3/4"	209.09
1"	280.93
1-1/4" - 1-1/2"	514.98
2"	686.08

-49 ASSEMBLED DRY

SIZE (IN.)	PRICE EA.
NPT/SW	No Charge

-57 CLEANED FOR OXYGEN SERVICE (SS ONLY)

SIZE (IN.)	PRICE EA.
1/4" - 2"	11.58

-60 GROUNDED BALL/STEM - A SERIES (STANDARD ON 83B & 86B)

SIZE (IN.)	PRICE EA.
1/4" - 2"	6.58

-62 CENTER SECTION ONLY CONSULT CUSTOMER SERVICE

-63 NPT x SW

SIZE (IN.)	PRICE EA.
All Sizes	No Charge

-66 NPT x BUTTWELD (83A/B)

SIZE (IN.)	PRICE EA.
1/4"	2.72
1/2"	2.72
3/4"	3.74
1"	4.91
1-1/4"	N/A
1-1/2"	8.72
2"	15.59

-67 CLEANED FOR INDUSTRIAL GASES (CS ONLY)

SIZE (IN.)	PRICE EA.
1/4" - 2"	12.02

-69 DRILLED/TAPPED PURGE & DRAINS

SIZE (IN.)	PRICE EA.
1/4" - 1"	137.85
1-1/2"	157.57
2"	167.38

-70 4" EXTENDED BONNET

SIZE (IN.)	PRICE EA.
1/4" - 1"	354.50
1-1/4" - 1-1/2"	433.28
2"	462.80

-76 LIVE LOAD LEVER

SIZE (IN.)	PRICE EA.
0.25" - 1"	66.85
1.25" - 1.5"	121.93
2"	134.02

-77 LIVE LOADED (GEAR/AUTOMATION)

SIZE (IN.)	PRICE EA.
0.25" - 1"	9.52
1.25" - 1.5"	16.58
2"	18.23

-90 EXT. BONNET W/ DOUBLE PACKING

SIZE (IN.)	PRICE EA.
1/4" - 1"	700.65
1-1/2"	899.49
2"	994.19

-9P EXT. BONNET W/ DOUBLE PACKING & PORT

SIZE (IN.)	PRICE EA.
1/2" - 1"	770.48
1-1/2"	969.33
2"	1064.03

-EP LOW EMISSIONS GRAPHITE PACKING/ SPIRAL WOUND GRAPHITE BODY SEAL

SIZE (IN.)	PRICE EA.
1/4" - 1/2"	20.12
3/4"	30.44
1"	41.70
1-1/4" & 1-1/2"	71.42
2"	99.60

-SR SPRING RETURN HANDLE

SIZE (IN.)		PRICE EA.
1/4" - 1/2"	78-2061-00	103.29
3/4"	78-2062-00	105.64
1"	78-2063-00	151.54

83A, 83B, 86A, 86B SERIES

REPLACEMENT SEAL KITS

83A / 86A

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	83A-003-01	37.02
3/4	83A-004-01	40.51
1	83A-005-01	42.06
1-1/4	83A-007-01	73.62
1-1/2	83A-007-01	73.62
2	83A-008-01	105.24

83B / 86B

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	83B-003-01	80.23
3/4	83B-004-01	84.26
1	83B-005-01	95.29
1-1/4	83B-007-01	105.69
1-1/2	83B-007-01	105.69
2	83B-008-01	143.94

Apollo® Flanged End Ball Valves

- Valves are supplied with lever operators as standard. (Sizes 1/2"-6")
- Full Port Valves 8", 10", 12" come with bare stem - Gear Operator strongly suggested (see Options Pricing).
- Regular Port Valves 10" come with bare stem - Gear Operator strongly suggested (see Options Pricing).
- Regular Port Valves 2-1/2" - 10" are split-body design for easy repair.
- Valves with lever operators are standard with Lock Plate (Previously-19 Option).
- Valves with lever operators have grounded ball and stem as standard (Previously -60 Option).
- All valve sizes have RPTFE/PTFE seats and packing as standard. For API 607 4th Ed. Firesafe, -24 Option must be specified, on all sizes.

87A SERIES

CF8M STAINLESS STEEL VALVE - ASME CLASS

87A-1: 150 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-107-01A	1-1/2	9	804.45	1
87A-108-01	2	18	1001.28	1
87A-109-01	2-1/2	27	1279.10	1
87A-100-01	3	34.3	1597.73	1
87A-10A-01	4	73	2268.48	1
87A-10C-01	6	117	4649.72	1
87A-10E-01	8	310.3	8267.45	1
87A-10G-01	10	525.8	14177.53	1

87A-7: 300 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-707-01A	1-1/2	15.7	927.66	1
87A-708-01	2	24.4	1013.27	1
87A-709-01	2-1/2	26	2015.43	1
87A-700-01	3	54.5	2336.75	1
87A-70A-01	4	95	3383.11	1
87A-70C-01	6	187	6480.81	1
87A-70E-01	8	399.2	12370.22	1
87A-70G-01	10	704	24787.96	1

87A-2: 150 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-203-01	1/2	3.35	276.08	1
87A-204-01	3/4	4.6	349.71	1
87A-205-01	1	7	428.05	1
87A-207-01	1-1/2	14.3	1079.97	1
87A-208-01	2	25	1354.86	1
87A-209-01	2-1/2	30	1727.82	1
87A-200-01	3	60	1940.06	1
87A-20A-01	4	91	2910.19	1
87A-20C-01	6	247.5	7076.35	1
87A-20E-01	8	467	10647.82	1
87A-20G-01	10	790	15529.06	1
87A-20H-01	12	1300	34156.50	1

87A-9: 300 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-903-01	1/2	6	492.81	1
87A-904-01	3/4	9	579.82	1
87A-905-01	1	10.5	734.39	1
87A-907-01	1-1/2	21	1478.44	1
87A-908-01	2	37	1700.74	1
87A-909-01	2-1/2	50	2714.87	1
87A-900-01	3	78	2879.63	1
87A-90A-01	4	133	3932.86	1
87A-90C-01	6	329.2	10324.83	1
87A-90E-01	8	600	13467.73	1
87A-90G-01	10	944	30378.66	1
87A-90H-01	12	1542	35839.30	1

87A SERIES

ALLOY 20 - ASME CLASS

87A-4: 150 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-403-01	1/2		P.O.A.	
87A-404-01	3/4		P.O.A.	
87A-405-01	1		P.O.A.	
87A-407-01A	1-1/2	9	P.O.A.	1
87A-408-01	2	18	P.O.A.	1
87A-400-01	3	34.3	P.O.A.	1
87A-40A-01	4	73	P.O.A.	1
87A-40C-01	6	7	P.O.A.	1
87A-40E-01	8		P.O.A.	1

87A-5: 150 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-503-01	1/2	3.2	P.O.A.	1
87A-504-01	3/4	4.6	P.O.A.	1
87A-505-01	1	7	P.O.A.	1
87A-507-01	1-1/2	18.2	P.O.A.	1
87A-508-01	2	26.4	P.O.A.	1
87A-500-01	3	58.3	P.O.A.	1
87A-50A-01	4	98	P.O.A.	1
87A-50C-01	6	247.5	P.O.A.	1

87B SERIES

CF8M STAINLESS STEEL UNIBODY VALVE - ASME CLASS

87B-1: 150 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87B-100-01	3	43	1,597.73	1
87B-10A-01	4	72	2,268.48	1
87B-10C-01	6	110	4,649.72	1
87B-10E-01	8	210	8,267.45	1
87B-10G-01	10	350	14,177.53	1

88A SERIES

CARBON STEEL VALVE - ASME CLASS

88A-1: 150 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-107-01A	1-1/2	9	530.70	1
88A-108-01	2	18	593.64	1
88A-109-01	2-1/2	27	831.32	1
88A-100-01	3	44	906.20	1
88A-10A-01	4	73	1584.49	1
88A-10C-01	6	117	2808.65	1
88A-10E-01	8	310.3	6038.37	1
88A-10G-01	10	525.8	10776.58	1

88A-1: 150 FLANGED ENDS - STANDARD PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-147-01A	1-1/2	9	568.68	1
88A-148-01	2	18	643.55	1
88A-149-01	2-1/2	27	859.55	1
88A-140-01	3	44	1054.86	1
88A-14A-01	4	73	1703.91	1
88A-14C-01	6	117	3718.11	1
88A-14E-01	8	310.3	7907.17	1
88A-14G-01	10	525.8	13641.66	1

88A-2: 150 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-203-01	1/2	3.35	231.82	1
88A-204-01	3/4	4.6	289.79	1
88A-205-01	1	7	338.61	1
88A-207-01	1-1/2	14.3	646.81	1
88A-208-01	2	25	685.90	1
88A-209-01	2-1/2	30	1002.79	1
88A-200-01	3	60	1182.92	1
88A-20A-01	4	91	1873.19	1
88A-20C-01	6	247.5	3648.62	1
88A-20E-01	8	467	6736.61	1
88A-20G-01	10	790	15040.00	1
88A-20H-01	12	1300	21280.11	1

88A-2: 150 FLANGED ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-243-01	1/2	3.35	260.79	1
88A-244-01	3/4	4.6	309.10	1
88A-245-01	1	7	353.79	1
88A-247-01	1-1/2	14.3	655.52	1
88A-248-01	2	25	705.41	1
88A-249-01	2-1/2	30	1198.14	1
88A-240-01	3	60	1237.18	1
88A-24A-01	4	91	1901.39	1
88A-24C-01	6	247.5	4317.14	1
88A-24E-01	8	467	8809.55	1
88A-24G-01	10	790	15915.14	1
88A-24H-01	12	1300	25908.96	1

88A-7: 300 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-707-01A	1-1/2	15.7	724.47	1
88A-708-01	2	24.4	781.82	1
88A-709-01	2-1/2	26	1352.34	1
88A-700-01	3	54.5	1558.41	1
88A-70A-01	4	95	2347.42	1
88A-70C-01	6	187	4154.38	1
88A-70E-01	8	399.2	7216.97	1
88A-70G-01	10	704	12931.86	1

88A-7: 300 FLANGED ENDS - STANDARD PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-747-01A	1-1/2	15.7	801.73	1
88A-748-01	2	24.4	866.03	1
88A-749-01	2-1/2	26	1448.93	1
88A-740-01	3	54.5	1758.68	1
88A-74A-01	4	95	2606.26	1
88A-74C-01	6	187	4725.22	1
88A-74E-01	8	265	8085.15	1
88A-74G-01	10	401	15102.40	1

88A SERIES

CARBON STEEL VALVE - ASME CLASS

88A-9: 300 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-903-01	1/2	6	294.17	1
88A-904-01	3/4	9	324.57	1
88A-905-01	1	10.5	446.27	1
88A-907-01	1-1/2	21	963.54	1
88A-908-01	2	37	1115.69	1
88A-909-01	2-1/2	50	1462.99	1
88A-900-01	3	78	1724.24	1
88A-90A-01	4	133	2434.22	1
88A-90C-01	6	329.2	6694.11	1
88A-90E-01	8	600	9555.28	1
88A-90G-01	10	944	19469.23	1
88A-90H-01	12	1542	23351.82	1

88A-9: 300 FLANGED ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-943-01	1/2	6	314.43	1
88A-944-01	3/4	9	355.01	1
88A-945-01	1	10.5	496.98	1
88A-947-01	1-1/2	21	1064.99	1
88A-948-01	2	37	1267.85	1
88A-949-01	2-1/2	50	1706.85	1
88A-940-01	3	78	1927.12	1
88A-94A-01	4	133	2839.95	1
88A-94C-01	6	329.2	7505.53	1
88A-94E-01	8	600	10341.58	1
88A-94G-01	10	944	21348.64	1
88A-94H-01	12	1542	27892.78	1

88B SERIES

CARBON STEEL UNIBODY VALVE - ASME CLASS

88B-1: 150 FLANGED ENDS - STANDARD PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88B-100-01	3	43	906.203	1
88B-10A-01	4	72	1,584.49	1
88B-10C-01	6	110	2,808.65	1
88B-10E-01	8	210	6,038.37	1
88B-10G-01	10	350	10,776.58	1

88B-1: 150 FLANGED ENDS - FULL PORT W/ 316 SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88B-140-01	3	43	1,054.86	1
88B-14A-01	4	72	1,703.91	1
88B-14C-01	6	110	3,718.11	1
88B-14E-01	8	210	7,907.17	1
88B-14G-01	10	350	13,641.66	1

FLANGED VALVE

ADDERS

-04 2-1/4" CS EXTENDED STEM

87A, 87B/88A, 88B

STANDARD PORT	FULL PORT	ADDER
1" - 1-1/4"	-	39.52
1-1/2" - 2"	-	41.65
	1/2", 3/4"	66.30
1-1/2"-3"	1" - 2-1/2"	94.70

-10 STAINLESS STEEL LEVER & NUT

88A/88B

SIZE (IN.)	ADDER
1/2" - 1"	5.91
1-1/2" - 2-1/2"	8.85

-12 STAMPED "157 SWP" AND BAGGED

ADD \$2.48 TO LIST

-13 STAMPED "157 SWP"

1/2" - 1": ADD \$1.51 TO LIST

1-1/4" - 2": ADD \$2.45 TO LIST

-14 VENTED BALL (UNIDIRECTIONAL)

MUST HAVE STAINLESS STEEL BALL & STEM

SIZE (IN.)	ADDER
thru 1-1/2	4.71
2	6.30
3, 4, 6 Valves	52.22
8, 10 12 Valves	83.53

-15 ROUND HANDLE FOR FLANGED VALVES

	SIZE (IN.)	ADDER
Standard Port	1-1/2"	66.94
	2" - 2-1/2"	105.17
Full Port	1/2" - 1"	67.27
	1-1/2" - 2-1/2"	105.17

-21 UHMWPE SEATS & GRAPHITE STEM PACKING

87A/87B-100 | 87A-200 | 88A/88B-100 | 88A-200

SIZE (IN.)	SIZE (IN.)	ADDER
1/2"-1"	-	18.92
1-1/2"-2-1/2"	1"	32.18
3"	1-1/2"-2-1/2"	32.68
4"	-	92.82
6"	-	130.68
-	3"	109.84
-	4"	174.24
8"	6"	350.36
10"	8"	871.16
-	10"	1306.78
-	12"	2026.44

**-24 GRAPHITE STEM PACKING
FLANGED**

SIZE (IN.)	ADDER
1/2"-1"	6.30
1-1/2"-2-1/2"	12.56
3" & 4"	18.92
6"-12"	37.88

-35 VIRGIN TFE (PTFE) TRIM

87A/B | 88A/B

SIZE (IN.)	ADDER
1/2-1	0.80
1-1/2-2	1.53
2-1/2-4	2.39
6	37.88
8 & up	94.70

-38 PEEK SEATS, GRAPHITE STEM PACKING & GASKETS

87A | 88A

STANDARD PORT	FULL PORT	LIST ADDER
	1/2	431.60
	3/4	451.64
1-1/2	1	489.86
2	1-1/2	863.16
2-1/2	2	906.90
3	2-1/2	1342.10
4	3	1759.13
6	4	2702.39

-49 ASSEMBLED DRY

SIZE (IN.)	ADDER
1/2-2	9.87
2-1/2-6	29.54

-57 CLEANED FOR OXYGEN SERVICE

STAINLESS STEEL ONLY

SIZE (IN.)	ADDER
1/2-2	11.03
2-1/2-6	32.95
8,10, 12	104.41

-59 STAINLESS STEEL BOLTING (88A)

SIZE (IN.)	STANDARD PORT	FULL PORT
1/2 - 2	N/A	28.13
2-1/2 - 3	38.22	46.87
4	38.22	65.66
6	53.50	84.41
8	68.79	281.35
10	229.32	375.14
12	N/A	468.91

-65 MULTIFILL PTFE SEATS, GRAPHITE SEALS & PACKING

87/88B-100 | 87/88A -200/900 | 87A/88A-100/700

FULL PORT	STANDARD PORT	ADDER
1/2"		9.68
3/4"		9.68
1"	1-1/2"	15.70
1-1/2"	2"	15.70
2"	2-1/2"	18.27
2-1/2"	3"	18.27
3"	4"	30.23
4"	6"	45.89
6"	8"	160.65
8"	10"	653.79
10"		1269.57
12"		1400.67

-67 CLEANED FOR INDUSTRIAL GASES

SIZE (IN.)	ADDER
1/2 - 2	10.92
2-1/2 - 6	32.63
8, 10, 12	103.41

-69 DRILLED/TAPPED PURGE & DRAINS

87A/88A

SIZE (IN.)	ADDER
1/2 - 1	131.28
1-1/2	150.06
2	159.40
2-1/2	187.55
3	196.93
4	206.33
6	281.35
8	431.39
10	825.27
12	P.O.A.

FLANGED VALVE

ADDERS

-70 4" EXTENDED BONNET W/ PTFE TRIM 87A/88A-100/700

	STANDARD PORT	ADDER
1-1/2"	78-1946-01	371.37
2"	78-1948-01	453.90
2-1/2" & 3"	78-1950-01	484.85
4" & 6"	78-1952-01	639.58
8" & 10"	78-1954-01	1388.69

87A/88A-200/900

	FULL PORT	ADDER
1/2"	78-1938-01	371.37
3/4"	78-1942-01	371.37
1"	78-1946-01	371.37
1-1/2"	78-1948-01	453.90
2" & 2-1/2"	78-1950-01	484.85
3" & 4"	78-1952-01	639.58
6" & 8"	78-1954-01	1388.69

-73 SPIRAL WOUND GASKETS | 316SS W/ PTFE FILLER 87A/88A-100/700 | 87B/88B-100

STANDARD PORT	ADDER
1"	16.14
1-1/2"	16.14
2"	16.14
2-1/2"	16.14
3"	16.14
4"	24.16
6"	32.25
8"	56.47
10"	80.63
12"	-

87A/88A-200/900

FULL PORT	ADDER
1"	18.74
1-1/2"	18.74
2"	18.74
2-1/2"	18.74
3"	28.13
4"	37.52
6"	65.66
8"	93.79
10"	168.81
12"	187.55

-74 SPIRAL WOUND GASKETS | 316SS W/ GRAPHITE FILLER 87A/88A-100/700 | 87B/88B-100

STANDARD PORT	ADDER
1"	17.70
1-1/2"	17.70
2"	17.70
2-1/2"	17.70
3"	17.70
4"	26.52
6"	35.39

87A/88A-200/900

FULL PORT	ADDER
1"	18.74
1-1/2"	18.74
2"	18.74
2-1/2"	18.74
3"	28.13
4"	37.52
6" - 12"	See -24

-76 LIVE LOAD FOR MANUAL-FLANGED 87A/88A-100/700 | 87B/88B-100

STANDARD PORT	ADDER
1"	17.70
1-1/2"	17.70
2"	17.70
2-1/2"	17.70
3"	17.70
4"	26.52
6"	35.39

87A/88A-200/900

FULL PORT	ADDER
1-1/2" - 1"	66.85
1-1/4" - 1-1/2"	121.93
2" - 2-1/2"	134.02
3" - 4"	205.38
6" - 8"	281.25
10" - 12"	360.59

-77 LIVE LOAD FOR AUTOMATED-FLANGED 87A/88A-100/700 | 87B/88B-100

STANDARD PORT	ADDER
1-1/2" - 2"	16.58
2-1/2" - 3"	18.23
4" - 6"	27.91
8" - 10"	63.25
12"	NA

87A/88A-200/900

FULL PORT	ADDER
1/2" - 1	9.52
1-1/4" - 1-1/2"	16.58
2" - 2-1/2"	18.23
3" - 4"	27.91
6" - 8"	63.25
10" - 12"	86.06

-80 MULTISEAL SEATS 87A/87B | 88A/88B

STANDARD PORT	FULL PORT	ADDER
1.5" - 2.5"	1/2" - 2"	9.38
3"	2-1/2"	18.74
4"	3"	18.74
6"	4"	18.74
8"	6"	290.73
10"	8"	375.14
	10"	511.35
	12"	604.80

-80 MULTISEAL SEATS 87A/87B | 88A/88B

STANDARD PORT	FULL PORT	ADDER
1.5" - 2.5"	1/2" - 2"	9.38
3"	2-1/2"	18.74
4"	3"	18.74
6"	4"	18.74
8"	6"	290.73
10"	8"	375.14
	10"	511.35
	12"	604.80

FLANGED VALVE

ADDERS

-82 FLAT FACE FLANGES

87A | 88A

STANDARD PORT	ADDER	FULL PORT	ADDER
1/2	68.78	1/2	68.92
3/4	68.78	3/4	68.92
1	91.90	1	91.90
1-1/2	91.90	1-1/2	91.90
2	137.78	2	137.78
2-1/2	137.78	2-1/2	137.78
3	275.65	3	275.65
4	275.65	4	275.65
6	414.47	6	547.67
8	551.26	8	734.99
10	835.22	10	918.75
		12	1102.50

-90 EXTENDED BONNET W/ DOUBLE PACKING

87A/88A-100/700

	STANDARD PORT	ADDER
1-1/2"	78-1960-01	686.00
2"	78-1962-01	880.67
2-1/2" & 3"	78-1964-01	973.40
4" & 6"	78-1966-01	1205.16
8" & 10"	78-1968-01	2595.72

87A/88A-200/900

	FULL PORT	ADDER
1/2"	78-1956-01	686.00
3/4"	78-1958-01	686.00
1"	78-1960-01	686.00
1-1/2"	78-1962-01	880.67
2" & 2-1/2"	78-1964-01	973.40
3" & 4"	78-1966-01	1205.16
6" & 8"	78-1968-01	2595.72

-9P EXT. BONNET W/ DOUBLE PACKING & PORT

87A/88A-100/700

	ADDER
1-1/2"	755.83
2"	950.50
2-1/2" & 3"	1043.24
4" & 6"	1274.99
8" & 10"	2665.55

87A/88A-200/900

	ADDER
1/2"	755.83
3/4"	755.83
1"	755.83
1-1/2"	950.50
2" & 2-1/2"	1043.24
3" & 4"	1274.99
6" & 8"	2665.55

-EP LOW EMISSIONS GRAPHITE PACKING/SPIRAL WOUND GRAPHITE BODY SEAL

87A/88A-100/700

STANDARD PORT	ADDER
1-1/2"	50.62
2"	86.73
2-1/2" & 3"	120.94
4" & 6"	187.34
8" & 10"	321.94

87A/88A-200/900

FULL PORT	ADDER
1/2"	24.42
3/4"	36.97
1"	50.62
1-1/2"	86.73
2" & 2-1/2"	120.94
3" & 4"	187.34
6" & 8"	321.94
10" & 12"	545.82

**-MG: W/ STANDARD HANDWHEEL
150/300 CLASS - STANDARD PORT**

SIZE (IN.)	MG	MH
1-1/2, 2, 2-1/2	562.68	712.77
3	656.48	806.52
4	675.24	825.27
6	862.79	1012.86
8	1200.41	1368.81
10	1294.21	1453.61

**-MH: W/ STANDARD HANDWHEEL & LOCKING DEVICE
150/300 CLASS - FULL PORT**

SIZE (IN.)	MG	MH
1-1/2, 2, 2-1/2	562.68	712.77
3	656.34	806.52
4	862.79	1012.86
6	1200.41	1369.22
8	1294.21	1528.67
10	2513.40	2672.80
12	2513.40	2672.80

FLANGED VALVE

SEAL KITS

-01 VALVES ONLY

87A/B | 88A/B

STANDARD PORT	FULL PORT	KIT NUMBER	LIST PRICE
1/2	-	87-003-01	5.28
3/4	-	87-004-01	7.86
1	-	87-005-01	11.21
-	1"	87A-025-01	31.05
1-1/2	-	87A-017-01	24.84
-	1-1/2"	87A-027-01	35.18
2	-	87A-018-01	37.22
2-1/2	2"	87A-028-01	72.40
3	2-1/2"	87A-029-01	78.63
4	3"	87A-020-01	124.14
6"	4"	87A-02A-01	165.54
8"	6"	87A-02C-01	372.44
10"	8"	87A-02E-01	630.38
-	10"	87A-02G-01	2317.43
-	12"	87A-02H-01	2441.58

87A-F SERIES

STAINLESS STEEL VALVE - ASME CLASS

600 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
87A-F05-xx	1	13	984.84	1
87A-F07-xx	1.5	32	1723.46	1
87A-F08-xx	2	53	2178.41	1
87A-F09-xx	2.5	65	3163.25	1
87A-F00-xx	3	101	3353.26	1
87A-F0A-xx	4	194	4581.62	1
87A-F0C-xx	6	500	12024.09	1
87A-F0E-xx	8	920	15682.42	1

88A-F SERIES

CARBON STEEL VALVE - ASME CLASS

600 FLANGED ENDS - FULL PORT

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-F05-xx	1	13	757.52	1
88A-F07-xx	1.5	32	1069.83	1
88A-F08-xx	2	53	1188.72	1
88A-F09-xx	2.5	65	1402.70	1
88A-F00-xx	3	101	1509.67	1
88A-F0A-xx	4	194	3462.98	1
88A-F0C-xx	6	500	7165.94	1
88A-F0E-xx	8	920	13542.32	1

600 FLANGED ENDS - FULL PORT W/ SS BALL & STEM

PART NO.	SIZE (IN.)	WT./EA.	PRICE EA.	PIECES/BOX
88A-F45-xx	1	13	780.24	1
88A-F47-xx	1.5	32	1169.02	1
88A-F48-xx	2	53	1298.89	1
88A-F49-xx	2.5	65	1622.53	1
88A-F40-xx	3	101	1784.35	1
88A-F4A-xx	4	194	3674.40	1
88A-F4C-xx	6	500	7380.91	1
88A-F4E-xx	8	920	14702.56	1

CLASS 600 FLANGED VALVES

ADDERS

-04 2-1/4" EXTENDED STEM

SIZE (IN.)	ADDER
1	POA
1.5	POA
2	POA
2.5	N/A
3	N/A
4	N/A
6	N/A
8	N/A

-14 VENTED BALL (UNIDIRECTIONAL)

MUST HAVE SS BALL & STEM
87A-F0x / 88A-F4x ONLY

SIZE (IN.)	ADDER
1	4.71
1.5	4.71
2	6.30
2.5	52.22
3	52.22
4	52.22
6	52.22
8	83.53

-21 UHMWPE SEATS

GRAPHITE PACKING, SPIRAL WOUND
GRAPHITE BODY SEAL, PEEK BEARING

SIZE (IN.)	ADDER
1	10.59
1.5	15.90
2	21.19
2.5	26.49
3	31.78
4	42.38
6	63.57
8	84.76

-24 GRAPHITE STEM PACKING

SPIRAL WOUND GRAPHITE BODY SEAL, RPTFE BEARING, (API
607, 6TH EDITION, ISO 10497:2010) AVAILABLE WITH -80 SEAT.

SIZE (IN.)	ADDER
1	6.30
1.5	12.56
2	12.56
2.5	12.56
3	18.92
4	18.92
6	37.88
8	37.88

-26 CHLORINE SERVICE

VENTED, SPECIAL CLEANING, ASSEMBLED
DRY (CS, HC & MONEL ONLY)

SIZE (IN.)	ADDER
1	POA
1.5	POA
2	POA
2.5	POA
3	POA
4	POA
6	POA
8	POA

-38 PEEK SEATS

PEEK BEARING, GRAPHITE PACKING, SPIRAL
WOUND GRAPHITE BODY SEALS

SIZE (IN.)	ADDER
1	489.86
1.5	863.16
2	906.90
2.5	1342.10
3	1759.13
4	2702.39
6	POA
8	POA

-45 LESS LEVER & NUT

BARE STEM

SIZE (IN.)	ADDER
1	POA
1.5	POA
2	POA
2.5	POA
3	POA
4	POA
6	POA
8	POA

-49 NO LUBRICATION

ASSEMBLED DRY

SIZE (IN.)	ADDER
1	No Charge
1.5	No Charge
2	No Charge
2.5	No Charge
3	No Charge
4	No Charge
6	No Charge
8	No Charge

-57 OXYGEN CLEANED

87A-F0x ONLY

SIZE (IN.)	ADDER
1	11.03
1.5	11.03
2	11.03
2.5	32.95
3	32.95
4	32.95
6	32.95
8	104.41

-67 CLEANED FOR INDUSTRIAL GAS

87A-F0x / 88A-F4x ONLY

SIZE (IN.)	ADDER
1	11.03
1.5	11.03
2	11.03
2.5	32.95
3	32.95
4	32.95
6	32.95
8	104.41

-69 DRILLED & TAPPED PURGE PORT W/ PLUGS

SIZE (IN.)	ADDER
1	131.28
1.5	150.06
2	159.40
2.5	187.55
3	196.93
4	206.33
6	281.35
8	431.39

-70 4" EXTENDED BONNET

SIZE (IN.)	ADDER
1	371.37
1.5	453.90
2	484.85
2.5	639.58
3	1388.69
4	POA
6	POA
8	POA

CLASS 600 FLANGED VALVES

ADDERS

-76 LIVE LOADED (LEVER OPERATED)

SIZE (IN.)	ADDER
1	66.85
1.5	121.93
2	134.02
2.5	134.02
3	205.38
4	205.38
6	281.25
8	281.25

-90 DOUBLE PACKED 4" EXT. BONNET

SIZE (IN.)	ADDER
1	686.00
1.5	880.67
2	973.40
2.5	973.40
3	1205.16
4	1205.16
6	2595.72
8	2595.72

**-TC HYDROSTATIC TEST
WITH CERTIFIED REPORT**

SIZE (IN.)	ADDER
1	34.65
1.5	34.65
2	34.65
2.5	34.65
3	34.65
4	34.65
6	34.65
8	34.65

-77 LIVE LOADED (GEAR OPERATOR/ACTUATOR)

SIZE (IN.)	ADDER
1	9.52
1.5	16.58
2	18.23
2.5	18.23
3	27.91
4	27.91
6	63.25
8	63.25

-95 DEVLON® SEATS

GRAPHITE PACKING, SPIRAL WOUND GRAPHITE BODY SEAL, PEEK BEARING

SIZE (IN.)	ADDER
1	22.68
1.5	38.89
2	61.62
2.5	88.06
3	117.89
4	186.81
6	357.39
8	566.29

**-TD API 6D TEST
HYDROSTATIC TESTING**

SIZE (IN.)	ADDER
1	43.11
1.5	43.11
2	43.11
2.5	43.11
3	43.11
4	43.11
6	107.79
8	107.79

-80 MULTISEAL SEATS

PTFE CHEVRON PACKING, SPIRAL WOUND
PTFE BODY SEAL, PEEK BEARING

SIZE (IN.)	ADDER
1	No Charge
1.5	No Charge
2	No Charge
2.5	No Charge
3	No Charge
4	No Charge
6	No Charge
8	No Charge

-MG GEAR OPERATOR

WITH STANDARD HANDWHEEL

SIZE (IN.)	ADDER
1	435.75
1.5	446.25
2	603.75
2.5	614.25
3	624.75
4	934.50
6	945.00
8	1522.50

-TR HYDROSTATIC TEST

WITH CERTIFIED REPORT & MTR

SIZE (IN.)	ADDER
1	43.05
1.5	43.05
2	43.05
2.5	43.05
3	43.05
4	43.05
6	43.05
8	43.05

-82 FLAT FACE FLANGES

SIZE (IN.)	ADDER
1	91.90
1.5	91.90
2	137.78
2.5	137.78
3	275.65
4	275.65
6	547.67
8	734.99

-MP POSITIVE MATERIAL I.D.

SIZE (IN.)	ADDER
1	64.43
1.5	64.43
2	64.43
2.5	64.43
3	64.43
4	64.43
6	64.43
8	64.43

-TW HYDROSTATIC TEST

WITH CERTIFIED REPORT & WITNESSED

SIZE (IN.)	ADDER
1	57.75
1.5	57.75
2	57.75
2.5	57.75
3	57.75
4	57.75
6	57.75
8	57.75

CLASS 600 FLANGED VALVES

SEAL KITS

87A-F | 88A-F

SIZE (IN.)	KIT NUMBER	LIST PRICE
1	87A0F580	38.96
1	87A0F52480	38.96
1	87A0F521	55.02
1	87A0F595	202.02
1	87A0F538	310.17
1.5	87A0F780	58.59
1.5	87A0F72480	58.59
1.5	87A0F721	58.59
1.5	87A0F795	239.40
1.5	87A0F738	321.93
2	87A0F880	94.50
2	87A0F82480	94.50
2	87A0F821	134.40
2	87A0F895	239.40
2	87A0F838	401.31
2.5	87A0F980	100.80
2.5	87A0F92480	100.80
2.5	87A0F921	136.61
2.5	87A0F995	322.98
2.5	87A0F938	916.34
3	87A0F080	107.10
3	87A0F02480	107.10
3	87A0F021	145.43
3	87A0F095	322.98
3	87A0F038	1008.21
4	87A0FA80	379.58
4	87A0FA2480	379.58
4	87A0FA21	405.62
4	87A0FA95	624.23
4	87A0FA38	1440.18
6	87A0FC80	1163.09
6	87A0FC2480	1163.09
6	87A0FC21	1202.99
6	87A0FC95	1739.01
6	87A0FC38	2371.64
8	87A0FE80	1541.93
8	87A0FE2480	1541.93
8	87A0FE21	1541.93
8	87A0FE95	2075.01
8	87A0FE38	6098.93

89 SERIES

CAST CARBON STEEL VALVE

THREADED ENDS - MOUNTING PADS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
89-101-01A	1/4	58	37.17	10
89-102-01A	3/8	54	37.17	10
89-103-01A	1/2	63	37.17	10
89-104-01A	3/4	127	48.23	10
89-105-01A	1	163	67.29	10
89-106-01	1-1/4	306	151.50	5
89-107-01	1-1/2	398	191.78	5
89-108-01	2	599	256.66	2
89-109-01	2-1/2	1557	552.38	1
89-100-01	3	1679	602.87	1

SPRING RETURN HANDLE

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
89-501-01A	1/4	126	115.04	10
89-502-01A	3/8	125	115.04	10
89-503-01A	1/2	131	115.04	10
89-504-01A	3/4	198	127.91	5
89-505-01A	1	235	137.11	5
89-506-01	1-1/4	396	244.97	4
89-507-01	1-1/2	478	300.95	2
89-508-01	2	666	377.28	2

THREADED ENDS W/ 316SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
89-141-01A	1/4	58	48.69	10
89-142-01A	3/8	54	48.69	10
89-143-01A	1/2	63	48.69	10
89-144-01A	3/4	127	70.80	10
89-145-01A	1	163	90.07	10
89-146-01	1-1/4	306	178.87	5
89-147-01	1-1/2	398	228.27	5
89-148-01	2	599	297.78	2
89-149-01	2-1/2	1557	668.68	1
89-140-01	3	1679	716.90	1

90 SERIES

BRONZE VALVE - UL LISTED

THREADED ENDS - UNIBODY

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
90-103-01	1/2	53	17.40	10
90-104-01	3/4	82	21.50	10
90-105-01	1	125	31.57	10
90-106-01	1-1/4	198	53.73	5
90-107-01	1-1/2	299	69.60	5
90-108-01	2	464	99.10	2

9A SERIES

BRONZE VALVE - UL LISTED

THREADED ENDS - HEAVY PATTERN

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
9A-101-01	1/4	73	18.11	10
9A-102-01	3/8	73	18.11	10
9A-103-01	1/2	73	18.11	10
9A-104-01	3/4	110	23.94	10
9A-105-01	1	173	33.25	10
9A-106-01	1-1/4	292	58.01	5
9A-107-01	1-1/2	396	75.19	5
9A-108-01	2	597	106.88	2

92 SERIES

CAST CARBON STEEL VALVE - UNIBODY

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
92-101-01	1/4	49	39.54	10
92-102-01	3/8	49	39.54	10
92-103-01	1/2	49	39.54	10
92-104-01	3/4	76	47.59	10
92-105-01	1	121	69.22	10
92-106-01	1-1/4	195	99.72	5
92-107-01	1-1/2	292	149.45	5
92-108-01	2	473	191.14	2

THREADED ENDS W/ 316SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
92-141-01	1/4	49	48.50	10
92-142-01	3/8	49	48.50	10
92-143-01	1/2	49	48.50	10
92-144-01	3/4	76	64.13	10
92-145-01	1	121	84.95	10
92-146-01	1-1/4	195	119.01	5
92-147-01	1-1/2	292	175.22	5
92-148-01	2	473	217.43	2

93 SERIES

CARBON STEEL VALVE - UNIBODY

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
93-101-01	1/4	56	29.80	10
93-102-01	3/8	56	29.80	10
93-103-01	1/2	56	29.80	10
93-104-01	3/4	79	34.31	10
93-105-01	1	127	45.92	10
93-106-01	1-1/4	226	70.01	5
93-107-01	1-1/2	357	96.90	5
93-108-01	2	594	125.87	2

THREADED ENDS W/ 316SS BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
93-141-01	1/4	56	38.71	10
93-142-01	3/8	56	38.71	10
93-143-01	1/2	56	38.71	10
93-144-01	3/4	79	50.93	10
93-145-01	1	127	61.64	10
93-146-01	1-1/4	226	89.28	5
93-147-01	1-1/2	357	122.64	5
93-148-01	2	594	152.12	2

7A SERIES

CARBON STEEL VALVE - DRY CHLORINE

THREADED ENDS W/ M35-1 BALL & STEM

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
7A-131-26	1/4	125	328.73	10
7A-132-26	3/8	121	328.73	10
7A-133-26	1/2	114	328.73	10
7A-134-26	3/4	211	489.05	10
7A-135-26	1	294	645.91	10
7A-136-26	1-1/4	440	743.10	5
7A-137-26	1-1/2	704	840.30	5
7A-138-26	2	1086	1014.06	2

96 SERIES

CF8M STAINLESS STEEL VALVE - UNIBODY

THREADED ENDS

PART NO.	SIZE (IN.)	WT./100	PRICE EA.	PIECES/BOX
96-101-01	1/4	49	49.96	10
96-102-01	3/8	49	49.96	10
96-103-01	1/2	49	49.96	10
96-104-01	3/4	76	69.25	10
96-105-01	1	121	83.51	10
96-106-01	1-1/4	195	124.17	5
96-107-01	1-1/2	292	187.23	5
96-108-01	2	473	222.35	2

60B SERIES

BAR STOCK NEEDLE VALVE

CARBON STEEL NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60B-101-01	1/4	FNPT	PTFE	123	69.47
60B-101-24			Grafoil		64.17
60B-102-01	3/8	FNPT	PTFE	119	74.77
60B-102-24			Grafoil		66.16
60B-103-01	1/2	FNPT	PTFE	164	86.85
60B-103-24			Grafoil		75.84
60B-104-01	3/4	FNPT	PTFE	334	141.51
60B-104-24			Grafoil		126.41
60B-105-01	1	FNPT	PTFE	465	172.86
60B-105-24			Grafoil		145.20
60B-121-01	1/4	SW	PTFE	123	69.47
60B-121-24			Grafoil		64.17
60B-122-01	3/8	SW	PTFE	119	74.77
60B-122-24			Grafoil		66.16
60B-123-01	1/2	SW	PTFE	164	86.85
60B-123-24			Grafoil		75.84
60B-124-01	3/4	SW	PTFE	334	141.51
60B-124-24			Grafoil		126.41
60B-125-01	1	SW	PTFE	465	172.86
60B-125-24			Grafoil		145.20

316SS NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60B-701-01	1/4	FNPT	PTFE	123	117.42
60B-701-24			Grafoil		118.67
60B-702-01	3/8	FNPT	PTFE	119	120.36
60B-702-24			Grafoil		121.71
60B-703-01	1/2	FNPT	PTFE	164	147.97
60B-703-24			Grafoil		149.31
60B-704-01	3/4	FNPT	PTFE	334	253.85
60B-704-24			Grafoil		257.13
60B-705-01	1	FNPT	PTFE	465	323.82
60B-705-24			Grafoil		329.13
60B-721-01	1/4	SW	PTFE	123	117.42
60B-721-24			Grafoil		118.67
60B-722-01	3/8	SW	PTFE	119	120.36
60B-722-24			Grafoil		121.71
60B-723-01	1/2	SW	PTFE	164	147.97
60B-723-24			Grafoil		149.31
60B-724-01	3/4	SW	PTFE	334	253.85
60B-724-24			Grafoil		257.13
60B-725-01	1	SW	PTFE	465	323.82
60B-725-24			Grafoil		329.13

CARBON STEEL ANGLE NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60B-201-01	1/4	FNPT	PTFE	80	67.10
60B-201-24			Grafoil		61.77
60B-202-01	3/8	FNPT	PTFE	90	75.27
60B-202-24			Grafoil		66.68
60B-203-01	1/2	FNPT	PTFE	120	88.08
60B-203-24			Grafoil		77.06
60B-204-01	3/4	FNPT	PTFE	320	164.72
60B-204-24			Grafoil		149.64
60B-205-01	1	FNPT	PTFE	500	224.71
60B-205-24			Grafoil		197.04

316SS ANGLE NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60B-801-01	1/4	FNPT	PTFE	80	145.49
60B-801-24			Grafoil		146.75
60B-802-01	3/8	FNPT	PTFE	90	159.38
60B-802-24			Grafoil		160.72
60B-803-01	1/2	FNPT	PTFE	120	205.30
60B-803-24			Grafoil		206.64
60B-804-01	3/4	FNPT	PTFE	320	481.61
60B-804-24			Grafoil		484.91
60B-805-01	1	FNPT	PTFE	500	731.33
60B-805-24			Grafoil		736.63

-07 TEE HANDLE

SIZE		ADDER
1/4	Cross Handle replaced by Tee Handle	4.48
3/8	Cross Handle replaced by Tee Handle	4.48
1/2	Cross Handle replaced by Tee Handle	4.48

-09 LOCK BONNET

SIZE	ADDER
1/4	20.93
3/8	20.93
1/2	23.76
3/4	26.59
1	27.51

-88 PANEL MOUNT

SIZE	ADDER
1/4	22.79
3/8	22.79
1/2	26.59
3/4	28.29
1	30.98

-24 GRAFOIL PACKING

See pricing of valve with optional Grafoil packing in tables above. If other options are also desired, add the appropriate suffix to the code in numerical order (either before or after the suffix 24) see note below.

-57 OXYGEN CLEANED - STAINLESS STEEL

See standard valve adder section

NOTES:

Suffix "01" is the standard configuration. Options are specified by replacing the "01" with an option code(s) in Numerical Order.

Examples:

- 60B10101 Standard Configuration
- 60B10124 with Grafoil Packing
- 60B1010924 with Lock Bonnet and Grafoil Packing

60A SERIES

BAR STOCK NEEDLE VALVE

CARBON STEEL NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60A-101-01	1/4	FNPT	PTFE	123	69.47
60A-101-24			Grafoil		64.17
60A-102-01	3/8	FNPT	PTFE	119	74.77
60A-102-24			Grafoil		66.16
60A-103-01	1/2	FNPT	PTFE	164	86.85
60A-103-24			Grafoil		75.84
60A-104-01	3/4	FNPT	PTFE	334	141.51
60A-104-24			Grafoil		126.41
60A-105-01	1	FNPT	PTFE	465	172.86
60A-105-24			Grafoil		145.20
60A-121-01	1/4	SW	PTFE	123	69.47
60A-121-24			Grafoil		64.17
60A-122-01	3/8	SW	PTFE	119	74.77
60A-122-24			Grafoil		66.16
60A-123-01	1/2	SW	PTFE	164	86.85
60A-123-24			Grafoil		75.84
60A-124-01	3/4	SW	PTFE	334	141.51
60A-124-24			Grafoil		126.41
60A-125-01	1	SW	PTFE	465	172.86
60A-125-24			Grafoil		145.20

316SS NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60A-701-01	1/4	FNPT	PTFE	123	117.42
60A-701-24			Grafoil		118.67
60A-702-01	3/8	FNPT	PTFE	119	120.36
60A-702-24			Grafoil		121.71
60A-703-01	1/2	FNPT	PTFE	164	147.97
60A-703-24			Grafoil		149.31
60A-704-01	3/4	FNPT	PTFE	334	253.85
60A-704-24			Grafoil		257.13
60A-705-01	1	FNPT	PTFE	465	323.82
60A-705-24			Grafoil		329.13
60A-721-01	1/4	SW	PTFE	123	117.42
60A-721-24			Grafoil		118.67
60A-722-01	3/8	SW	PTFE	119	120.36
60A-722-24			Grafoil		121.71
60A-723-01	1/2	SW	PTFE	164	147.97
60A-723-24			Grafoil		149.31
60A-724-01	3/4	SW	PTFE	334	253.85
60A-724-24			Grafoil		257.13
60A-725-01	1	SW	PTFE	465	323.82
60A-725-24			Grafoil		329.13

-07 TEE HANDLE

SIZE		ADDER
1/4	Cross Handle replaced by Tee Handle	4.48
3/8	Cross Handle replaced by Tee Handle	4.48
1/2	Cross Handle replaced by Tee Handle	4.48

-09 LOCK BONNET

SIZE	ADDER
1/4	20.93
3/8	20.93
1/2	23.76
3/4	26.59
1	27.51

-88 PANEL MOUNT

SIZE	ADDER
1/4	22.79
3/8	22.79
1/2	26.59
3/4	28.29
1	30.98

-24 GRAFOIL PACKING

See pricing of valve with optional Grafoil packing in tables above. If other options are also desired, add the appropriate suffix to the code in numerical order (either before or after the suffix 24) see note below.

-57 OXYGEN CLEANED - STAINLESS STEEL

See standard valve adder section

NOTES:

Suffix "01" is the standard configuration. Options are specified by replacing the "01" with an option code(s) in Numerical Order.

Examples:

60A10101	Standard Configuration
60A10124	with Grafoil Packing
60A1010924	with Lock Bonnet and Grafoil Packing

60 SERIES

BRASS BAR STOCK NEEDLE VALVE

BRASS NEEDLE

PRODUCT	SIZE (IN.)	ENDS	PACKING	WT./100	PRICE EA.
60-900-01	1/8	FNPT	Grafoil		65.05
60-900-05			PTFE		70.36
60-901-01	1/4	FNPT	Grafoil		69.63
60-901-05			PTFE		74.93
60-902-01	3/8	FNPT	Grafoil		69.63
60-902-05			PTFE		82.13
60-903-01	1/2	FNPT	Grafoil		74.66
60-903-01			PTFE		74.66

NOTES:

Suffix "01" is the standard configuration.
Options are specified by replacing the "01" with an option code(s) in Numerical Order.

Examples:

6010101 Standard Configuration
6010124 with Grafoil Packing
601010924 with Lock Bonnet and Grafoil Packing

-09 LOCK BONNET

SIZE	ADDER
1/8	23.21
1/4	23.93
3/8	23.93
1/2	27.92

-88 PANEL MOUNT

SIZE	ADDER
1/8	21.97
1/4	21.97
3/8	21.97
1/2	24.95
3/4	27.92
1	28.89

61 SERIES

BALL CONE CHECK VALVE

BRONZE

PART NO.	SIZE (IN.)	SEAT
61-100 Series	1/4 - 3 F Threaded	Standard RTFE
61-500 Series	1/4 - 2 F Threaded	Soft

61LF SERIES

LEAD FREE BALL CONE CHECK VALVE

BRONZE

PART NO.	SIZE (IN.)	SEAT
61LF-100 Series	1/4 - 3"	Standard RTFE
61LF-500 Series	3/8 - 3/4"	Soft

62 SERIES

BALL CONE CHECK VALVE

316 STAINLESS STEEL

PART NO.	SIZE (IN.)	SEAT
62-100 Series	1/4 - 2 F Threaded	Standard RTFE
62-500 Series	1/4 - 1 F Threaded	Soft

STANDARD VALVES

ADDERS

APOLLO® PACKING WRENCH

PART NO.		PRICE
H371400	Domestic Valves	8.78 ea.
H380700	Apollo International™ Valves	12.53 ea.

ADJUSTABLE STOP LEVERS

70 SERIES	82 SERIES	KIT NUMBER	ADDER
1/4" - 1/2"	1/4" - 3/8"	78-565-01	4.24
3/4" - 1"	1/2" - 3/4"	78-566-01	6.80
1-1/4" - 2"	1" - 2"	78-567-01	10.92

-02 GROUNDED STEM

	LIST PRICE
Stem Grounded Only	0.95

-04 2-1/4" CS EXTENDED STEM

70 SERIES	72-A	77 SERIES, 7K	82 SERIES	ADDER
1/4" - 1/2"	—	1/4"-1/2"	1/4" - 3/8"	8.72
3/4" - 1"	—	3/4"	1/2" - 3/4"	9.52
1-1/4" - 2"	1"-1-1/2"	1"-1-1/4"	1" - 1-1/4"	11.63
2-1/2" - 3"	—	1-1/2"-2-1/2"	1-1/2" - 2"	15.31

-05 PLAIN BALL - UNPLATED

NO ADDITIONAL CHARGE

-07 STEEL TEE HANDLE

NO ADDITIONAL CHARGE (SEE -32 FOR SS)

-08 90° REVERSED STEM (N/A FLANGED VALVES)

ADD \$3.94 TO LIST

-10 STAINLESS STEEL LEVER & NUT

70, 73A, 9A	72-A	82 SERIES	75 SERIES	ADDER
1/4"-1/2"	—	1/4"-3/8"	—	2.25
3/4"-1"	1/4"-3/4"	1/2"-3/4"	—	3.7
1-1/4"-2"	1"-1-1/2"	1"-1-1/4"	—	4.71
2-1/2"-3"	—	1-1/2"-2"	1/2"-1"	6.64
—	2"	—	1-1/4"-2"	10.53

72 (BAR STOCK), 73-3, 73-4	93-100	ADDER
—	1/2"-3/4"	2.98
1/2"-3/4"	1"-1-1/4"	3.56
1"	1-1/2"	5.85
1-1/4", 1 1/2"	2"	8.77

-11 THERMA-SEAL™ INSULATING TEE HANDLE

70, 71	77, 82	ADDER
1/4" - 1/2"	1/4" - 1/2"	19.17
3/4" - 1"	3/4"	21.65
1-1/4"-1-1/2"	1" - 1-1/2"	35.86
2"	2"	46.86

-11 THERMA-SEAL™ HANDLE KIT

70, 71	77	82	KIT NUMBER	PRICE EA.
1/4"-1/2"	1/4"-1/2"	1/4"-3/8"	78-2190-01	13.66
3/4"-1"	3/4"	1/2"-3/4"	78-2191-01	13.66
1-1/4"-2"	1"-2"	1"-2"	78-2192-01	19.48

-14 VENTED BALL (UNIDIRECTIONAL)

BRONZE OR SS BALL & STEM ONLY

SIZE (IN.)	ADDER
Bronze Ball, thru 1-1/2	1.45
Stainless Steel, thru 1-1/2	5.3
2 Bronze or SS	7.08
2-1/2 Valves	41.41
3, 4 Valves	58.58

-15 STEEL ROUND HANDLE

70, 73A, 76, 85, 89	82	91, 92, 96	KIT NUMBER	ADDER
1/4"-1/2"	1/4"-3/8"	1/4"-3/4"	H-2548-00	7.22
3/4"-1"	1/2"-3/4"	1"-1-1/4"	H-2549-00	7.84
1-1/4"-2"	1"-2"	1-1/2"-2"	H-2605-00	14.46

73-300	93-100	KIT NUMBER	ADDER
—	1/2"-3/4"	H-2567-00	8.43
1/2"-3/4"	1"-1-1/4"	H-2568-00	10.35
1"	1-1/2"	H-2606-00	14.46

-16 VERTICAL CHAIN LEVER

CHAIN NOT INCLUDED

SIZE	KIT NUMBER	ADDER
3/4" - 1"	78-407-01	8.84
1 1/4" - 2"	78-408-01	12.56

-17 ROUGH CHROME PLATED EXTERIOR

BRONZE VALVES ONLY

SIZE	ADDER
1/4"-1"	5.92
1 1/4"-2"	11.63
2 1/2"-3"	22.9

-18 PLAIN GRIP

NO ADDITIONAL CHARGE

-19 LOCK PLATE

72 (BAR STOCK)	CONVERSION KITS	ADDER
1/2" - 3/4"	78-499-01	24.91
1"	78-500-01	24.91
1-1/4" - 1-1/2"	78-480-01	24.56
2"	78-502-01	28.06

93-100 SERIES	CONVERSION KITS	ADDER
3/4"	78-477-01	20.61
1" - 1 1/4"	78-478-01	20.61
1" - 1/2"	78-479-01	23.78
2"	78-480-01	24.56

76-100 SERIES & 89-100 SERIES	CONVERSION KITS	ADDER
1/4" - 1/2"	78-426-01	22.52
3/4" - 1"	78-427-01	24.13
1 1/4" - 2"	78-428-01	30.43

STANDARD VALVES

ADDERS

-20 BALL VENTED THROUGH STEM

BRONZE VALVE ONLY - ADD \$1.00 TO LIST
(STANDARD ON ALL CARBON/STAINLESS STEEL VALVES)

-21 UHMWPE SEATS / GRAPHITE STEM PACKING

70, 76, 72, 72-A, 73A	82	ADDER
1/4"-1"	1/4"-1"	21.26
1-1/4"-3"	1-1/4"-2"	36.16

**-24 GRAPHITE STEM PACKING (STANDARD APOLLO®)
THREAD/SWEAT**

SIZE (IN.)	ADDER
1/4"-1"	2.48
1-1/4"-3"	5.02

-27 STAINLESS STEEL LATCH LOCK LEVER

70, 73A, 76, 89	72-A	77, 7K	82	KIT NUMBER	ADDER
1/4"-1/2"	—	1/4"-1/2"	—	W-6482-00	5.39
3/4"-1"	1/4"-3/4"	3/4"	1/2", 3/4"	W-6483-00	5.39
1-1/4"-2"	1"-1-1/2"	1"-1-1/4"	1", 1-1/4"	W-6484-00	5.39
2-1/2"-3"	—	1-1/2"-2 1/2"	1-1/2"-2"	W-6836-00	16.01
4"	2"	—	2-1/2"	W-8075-00	65.72

-30 CAM LOCK HANDLE & GROUND STEM

70, 73A, 71, 76, 89	77, 7K	9A, 91, 92, 96	82	ADDER
1/4" - 1/2"	1/4" - 1/2"	1/2" - 3/4"	1/4" - 3/8"	27.67
3/4"-1"	3/4"	1"-1-1/4"	1/2"	32.97
1-1/4"-2"	1"-2"	1-1/2"-2"	—	38.27

**-32 STAINLESS STEEL HI-RISE TEE HANDLE
W/ SS NUT**

SIZE	ADDER
1/4" - 1/2"	4.71
3/4" - 1"	5.24
1 1/4" - 2"	9.21

-35 VIRGIN TFE (PTFE) TRIM

70, 76, 82-100	ADDER
1/4" - 1"	.89
1 1/4" - 2"	1.70
2 1/2" - 4"	2.69

-39 SS HI-RISE, LOCKING ROUND HANDLE

70, 71, 73A, 74, 76, 89	76F	77	82	9A, 92, 96	ADDER
1/4" - 1/2"	1/2" - 3/4"		1/4" - 3/8"	1/2" - 3/4"	19.15
3/4" - 1"	1"	3/4"	1/2" - 3/4"	1" - 1 1/4"	19.15
1 1/4" - 2"	1 1/4" - 2"	1"	1"	1 1/2"	29.78

-40 CYL-LOCK HANDLE & GROUND STEM

70, 71, 73A, 76, 89	77, 7K	9A, 91, 92, 96	82	ADDER
1/4"-1/2"	1/4"-1/2"	3/4"	1/4"-3/8"	71.01
3/4"-1"	3/4"	1"-1-1/4"	1/2"	79.37
1-1/4"-2"	1"-1-1/4"	1-1/2"-2"	—	93.96

**-42 UNVENTED BALL (CARBON, SS, ALLOY 20)
ADD \$4.20 TO LIST**

-44 SEAL WELDED

76-100, 76F-100	ADDER
1/4"-3/4"	67.89
1"	72.03
1-1/4"	77.83
1-1/2"	78.80
2"	84.67
2-1/2"	98.52
3"	115.26

**-45 LESS LEVER & NUT
NO ADDITIONAL CHARGE**

-46 SS LATCH LOCK LEVER - LOCK IN CLOSED POS.

70, 73A, 76, 89	7K, 77	82	92-100, 96-100	KIT NUMBER	ADDER
1/4"-1/2"	1/4"-1/2"	—	1/2"-3/4"	W-8368-00	27.50
3/4"-1"	3/4"	1/2", 3/4"	1", 1-1/4"	W-8370-00	27.50
1-1/4"-2"	1"-1-1/4"	1", 1-1/4"	1-1/2", 2"	W-8372-00	27.50

-47 LATCH LOCK OVAL HANDLE - SS NUT

70, 71, 73A, 74, 76, 89	77, 7K	82.00	9A, 92, 96	ADDER
1/4"-1/2"	1/4"-1/2"	1/4", 3/8"	1/4"-3/4"	27.67
3/4", 1"	3/4"	1/2", 3/4"	1", 1-1/4"	27.67
1-1/4"-2"			1-1/2", 2"	97.02

-48 SS OVAL HANDLE - NO LATCH - SS NUT

70, 71, 73A, 76, 89	77, 7K	82	9A, 92, 96	HANDLE	ADDER
1/4"-1/2"	1/4"-1/2"	1/4", 3/8"	1/4"-3/4"	H-3031-00	24.07
3/4", 1"	3/4"	1/2", 3/4"	1", 1-1/4"	H-3032-00	24.07
1-1/4"-2"	1"-2"	1"-2"	1-1/2", 2"	H-3033-00	36.08

**-49 ASSEMBLED DRY
THREAD/SWEAT - NO ADDITIONAL CHARGE**

-50 2-1/4" CS EXTENDED STEM - LOCKING

70, 73A, 76, 89	82	92, 96	KIT NUMBER	ADDER
1/4"-1/2"	1/4", 3/8"	3/4"	78-001-01	30.18
3/4", 1"	1/2", 3/4"	1", 1-1/4"	78-002-01	30.18
1-1/4"	1"-1-1/4"	1-1/2", 2"	78-003-01	45.27
1-1/2", 2"	—	—	78-004-01	45.27
2-1/2", 3"	1-1/2", 2"	—	78-005-01	45.27

STANDARD VALVES

ADDERS

-51, -52, -53, -54 TACK WELDS CARBON/STAINLESS STEEL

SIZE (IN.)	ONE WELD (-51)	TWO WELDS (-52)	THREE WELDS (-53)	FOUR WELDS (-54)
1/4 - 1-1/4	4.17	7.89	9.86	10.84
1-1/2, 2	4.17	9.86	10.84	11.82
2-1/2, 3	4.17	11.82	12.81	13.78

ALLOY 20

SIZE (IN.)	ONE WELD (-51)	TWO WELDS (-52)
All sizes POA		

-56 MULTIFILL (MTFE) SEATS

SIZE (IN.)	ADDER
1/4-1 Valves	2.36
1-1/4-2 Valves	3.84
2-1/2-3 Valves	19.58

-57 OXYGEN CLEANED BRONZE/STAINLESS STEEL ONLY

SIZE (IN.)	ADDER
1-4 - 2	12.18
2-1/2 - 4	36.32

-58 HORIZONTAL CHAIN LEVER CHAIN NOT INCLUDED

SIZE (IN.)	KIT NUMBER	ADDER
3/4"-1"	78-407-01	8.84
1-1/4-2	78-408-01	12.56

-59 STAINLESS STEEL EXTERNAL TRIM 82 SERIES FOR LEVERS, TIE BOLTS & NUTS

SIZE (IN.)	ADDER
1/4-3/8	7.00
1/2-3/4	8.81
1-1-1/4	18.47
1-1/2- 2	24.09

-60 GROUNDED BALL & STEM

THREAD/SWEAT - CARBON MUST HAVE SS BALL/STEM

SIZE (IN.)	ADDER
1/4"-3"	7.07

-62 CENTER SECTION FOR 3 PIECE & DOUBLE UNION CONTACT CUSTOMER SERVICE

-63 NPT x SOLDER/SOCKET WELD CONTACT CUSTOMER SERVICE - NO ADDITIONAL CHARGE

-64 250 LB. STEAM TRIM

MUST HAVE STAINLESS STEEL BALL/STEM

70-140, 72-140*, 72-940*, 73A-140, 89-140, 76-100	77-140	ADDER
1/4-3/8	1/4	9.92
1/2	3/8	9.94
3/4	1/2	9.94
1	3/4	9.94
1-1/4	1	17.36
1-1/2	1-1/4	17.36
2	1-1/2	17.36
2-1/2	2	19.81
3	2-1/2	19.81

* BOTH 72 (BAR STOCK) AND 72-A (FORGED BODY)

-67 CLEANED FOR INDUSTRIAL GASES

SIZE (IN.)	ADDER
1/4 - 2	11.48
2-1/2 - 3	34.26

-78 DELRIN®/ACETAL SEATS 72, 72-A, 73-3, 73-4, 76-3, 76-4

SIZE (IN.)	ADDER
1/2 - 1	120.04
1-1/4 - 2	140.65

-79 NYLON/POLYAMIDE SEATS 72, 72-A, 73-3, 73-4, 76-3, 76-4

SIZE (IN.)	ADDER
1/2 - 1	120.04
1-1/4 - 2	140.65

-92 BALANCING (MEMORY STOP) BRONZE ONLY

70	77, 7K	82	ADDER
1/4"-1/2"	1/4"-1/2"	1/4"-3/8"	3.63
3/4"-1"	3/4"	1/2"-3/4"	4.76
1-1/4"-3"	1"-2-1/2"	1"-2"	5.64

-94 2-1/4" CS EXTENDED STEM & BALANCING (MEMORY STOP) BRONZE ONLY

70	77, 7K	82	ADDER
1/4"-1/2"	1/4"-1/2"	1/4"-3/8"	12.61
3/4"-1"	3/4"	1/2"-3/4"	14.56
1-1/4"-2"	1"-1-1/4"	1"-1-1/4"	17.62
2-1/2"-3"	1-1/2"-2-1/2"	1-1/2"-2"	21.40

-GS CSA CGA 3.16

76, 76F, 89	ADDER
All Sizes	No Charge

STANDARD VALVES

70, 71, 73A, 74, 76,
89 & 399 SERIES (EXCEPT 3-WAY)

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-3/8	70-002-01	5.08
1/2	70-003-01	5.08
3/4	70-004-01	8.75
1	70-005-01	12.40
1-1/4	70-006-01	19.72
1-1/2	70-007-01	25.50
2	70-008-01	35.65
2-1/2, 3	70-009-01	52.08
2-1/2 (70 Series Only)	78-020-01	39.87
4	70-00A-01	79.66

70-600 & 76-600

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/2	70-003-01	5.08
3/4	70-004-01	8.75
1	90-006-01	19.72
1-1/4	70-006-01	19.72
1-1/2	70-007-01	25.50
2	70-008-01	35.65

77-100 & 77-200

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-3/8	70-003-01	5.08
1/2	70-003-01	5.08
3/4	90-006-01	19.72
1	90-007-01	25.50
1-1/4	70-007-01	25.50
1-1/2	70-008-01	35.65
2	78-020-01	39.87
2-1/2	70-009-01	52.08

75-100

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	70-003-01	5.08
3/4-1	70-005-01	12.40
1-1/4	70-006-01	19.72
1-1/2	70-007-01	25.50
2	70-008-01	35.65

REPLACEMENT SEAL KITS

73-300, 73-400, 76-300 & 76-400

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	73-033-01	6.51
3/4	73-034-01	9.29
1	73-035-01	14.75
1-1/4	73-036-01	19.10
1-1/2	73-037-01	26.73

72 SERIES (BAR STOCK DESIGNS)

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	72-003-01	6.51
3/4	72-004-01	9.29
1	72-005-01	14.75
1-1/4	72-006-01	19.10
1-1/2	72-007-01	26.73
2	72-008-01	34.64

72-A SERIES (FORGED BODY DESIGNS)

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	72-003-01A	6.51
3/4	72-004-01A	9.29
1	72-005-01A	14.75
1-1/4	72-006-01A	19.10
1-1/2	72-007-01A	26.73
2	72-008-01A	34.64

82-100/200, 83-100/200, 86-100/200, 83-700 & 86-700
FOR 85 SERIES, USE ONE SIZE SMALLER

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-3/8	82-002-01	5.58
1/2	82-003-01	8.41
3/4	82-004-01	11.93
1	82-005-01	18.96
1-1/4	82-006-01	24.53
1-1/2	82-007-01	34.27
2	82-008-01	44.63
2-1/2	82-009-01	46.21
3	82A-000-01	49.51
	86-000-01	53.59
4	82A-00A-01	99.48

83R-100/200, 86R-100/200

SIZE (IN.)	KIT NUMBER	PRICE EA.
3	83R-000-01	170.69

83-500/600, 86-500/600

FOR 83-300/400 SERIES, USE ONE SIZE SMALLER

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-3/8	83-052-01	4.76
1/2	83-053-01	7.21
3/4	83-054-01	10.24
1	83-055-01	16.28
1-1/4	83-056-01	21.03
1-1/2	83-057-01	29.42
2	83-058-01	38.18

90, 92, 93, 9A, 96

SIZE (IN.)	KIT NUMBER	PRICE EA.
1/4-1/2	90-003-01	5.58
3/4	90-004-01	8.41
1	90-005-01	11.93
1-1/4	90-006-01	18.96
1-1/2	90-007-01	24.53
2	90-008-01	34.27

ADDITIONAL SERVICES

TAGGING	ADDER
Consult with Apollo® Sales Agent for details and limitations	\$25.00 minimum billing
Paper Tags	\$1.25 Net each
Soft Aluminum Tags	\$2.50 Net each
Stainless Steel Tags	\$4.00 Net each
Customer Supplied Tags	\$1.25 Net each

DOCUMENTATION	
Certificate of Compliance on Conbraco Form:	NO ADDITIONAL CHARGE if requested at time of order

MILL TEST REPORTS (MTR)		ADDER
Carbon Steel, Stainless Steel, Nickel, Nickel Based Alloys, Titanium	Apollo Valves (cast body & cast retainer only) ¹	\$25.00 NET per Line Item
	Apollo 3-Piece Valves (cast body & cast end caps only) ¹	\$25.00 NET per Line Item

NOTE: MTRs FOR CAST BODIES, CAST RETAINERS, AND CAST END CAPS (3 PIECE VALVE) ARE AVAILABLE AT WWW.APOLLOVALVES.COM AT NO CHARGE.

¹ CONTACT FACTORY FOR MILL TEST REPORTS (MTRS) FOR OTHER VALVE COMPONENTS, SUCH AS BALL, STEM ETC, WILL REQUIRE A SPECIAL MODEL NUMBER TO BE CREATED.

POSITIVE MATERIAL IDENTIFICATION (PMI)		ADDER
"MP" suffix - Includes report	Apollo Valves (Body, Bonnet, Retainer or End Caps only) ²	\$61.36 List each

NOTE: NOT AVAILABLE FOR CARBON STEELS

² POSITIVE MATERIAL IDENTIFICATION (PMI) FOR OTHER VALVE COMPONENTS, SUCH AS BALL, STEM ETC, PLEASE CONTACT FACTORY.

TESTING TO API 598 (HYDROSTATIC TESTING)	ADDER
TH Test - Hydrostatic *	\$16.80 List each*
TC Test - Hydrostatic w/Certified Report	\$34.65 List each
TR Test - Hydrostatic w/Certified Report and MTR	\$43.05 List each
TW Test - Hydrostatic w/Certified Report & Witnessed	\$57.75 List each

*ASME BALL VALVES (E.G. FLANGED, ASME 3-PIECE, TOP ENTRY) ARE TESTED TO API 598 AS STANDARD.

TESTING TO API 6D (HYDROSTATIC SHELL & SEAT TESTING)	ADDER	
TD Test - API 6D 1/2" - 4" (DN15 - DN100) 6", 8", 10" (DN150 - DN250) 12" (DN300)	\$41.06 List each	6 minute test
1/2" - 4" (DN15 - DN100) 6", 8", 10" (DN150 - DN250) 12" (DN300)	\$102.66 List each	15 minute test
1/2" - 4" (DN15 - DN100) 6", 8", 10" (DN150 - DN250) 12" (DN300)	\$171.11 List each	25 minute test

APOLLO ASME BALL VALVES | FLANGED: 88A, 87A, AND ALLOYS | 3-PIECE: 83B, 86B, AND ALLOYS
THE "TD" OPTION DOES NOT SIGNIFY THAT A VALVE IS MARKED WITH THE API MONOGRAM OR MARKED WITH AN API-6D LICENSE NUMBER.

UL & CSA MARKING		ADDER
"UL" suffix	Tagged UL and CSA compliant	87A & 88A Series (Extra Tag riveted to body flange)
	Marked UL compliant	83B & 86B Series (Handle with special graphics)

GENERAL INFORMATION ON PRICING

PLEASE NOTE THAT THROUGHOUT OUR PRICE LIST SOME PRODUCTS ARE LISTED P.O.A. (PRICE ON APPLICATION), THIS IS TO ELIMINATE A CONFUSING AND LENGTHY PRICE LIST. FOR EXAMPLE, WE CAN SUPPLY BODIES IN VARIOUS ALLOYS. WE CAN ALSO SUPPLY MANY DIFFERENT OPTIONS. IN ADDITION TO THE ABOVE, WE CAN ALSO SUPPLY FABRICATED PRODUCTS TO YOUR SPECIFICATIONS. CONBRACO OFFERS SPECIAL COATINGS AND GALVANIZED COATING. PLEASE CONTACT THE FACTORY FOR PRICING.

REVISIONS

PAGE	DATE	DESCRIPTION
2	16FEB17	Added 72-A Moved Replacement Seals Kits to 3rd Column
9	08MAR17	Added 70LF-300, 70LF-400, 70LF-800
11	16FEB17	Added 72-A List Prices
14	24FEB17	Corrected 76-605-01A List Price
18	08MAR17	Added 77C-109-27A
19	08MAR17	Added 77C-92 Kits
20	08MAR17	Fixed 77CLF-200
21	08MAR17	Added 77CLF-109-27A, 77CLF-209-27A, 77CLF-149-27A, 77CLF-249-27A
24	08MAR17	Changed 80 Series Header to "2-Piece Valve - UL"
34	16FEB17	Changed 88A-24x Header to "Full Port"
49	16FEB17	Added 72-A Options to -04 & -10
50	10MAR17	"-47" Option Table. Removed duplicate 77. Restored 74, 76, 89, 7K, 82 to table. Added 1.25"-2" sizes to 70 series column. Added 1.5", 2" sizes to 9A column
	16FEB17	Added 72-A Options to -21 & -27
51	16FEB17	Added 72-A Options to -64, -78 & -79
52	16FEB17	Added 72-A Repair Kits