

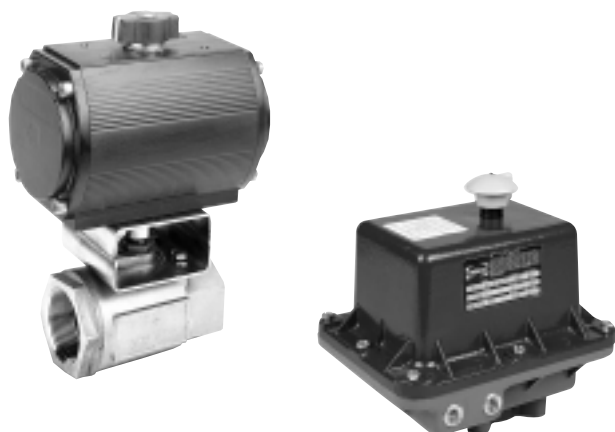
ACTUATORS AND
CONTROLS FOR
METAL &
CHEMTROL VALVES

ACT-0901RW

Effective Sept. 24, 2001 • Supersedes ACT-0300 dated Mar. 27, 2000

Suggested List Prices Subject to Change Without Notice.

NIBCO PNEUMATIC ACTUATORS



NDA/NSR Series (Rack & Pinion)

Actuator Figure#	Air to Air		Air to Spring		
	Actuator Material#	List Price	Actuator Figure#	Actuator Material#	List Price
NDA2F03	T116752	\$ 159.00	NSR2F03	T116753	\$ 186.00
NDA4F04	T116754	198.00	NSR4F04	T116755	218.00
NDA8F05	T116756	252.00	NSR8F05	T116757	290.00
NDA12F07	T116758	309.00	NSR12F07	T116759	360.00
NDA20F07	T116760	401.00	NSR20F07	T116761	470.00
NDA35F10	T116762	587.00	NSR35F10	T116763	671.00
NDA55F12	T116764	833.00	NSR55F12	T116765	1,146.00
NDA70F12	T116766	1,133.00	NSR70F12	T116767	1,246.00
NDA100F14	T116768	1,620.00	NSR100F14	T116769	1,862.00
NDA150F16	T116770	2,403.00	NSR150F16	T116771	2,842.00
NDA250F16	T116772	2,853.00	NSR250F16	T116773	4,233.00
NDA400F25	T116774	4,709.00	NSR400F25	T116775	7,340.00

NDA/NSR Series - Standard Anodized Aluminum Housing

CNIDA/CNISR Series (Rack & Pinion)

Actuator Figure#	Air to Air		Air to Spring		
	Actuator Material#	List Price	Actuator Figure#	Actuator Material#	List Price
CNIDA2F03	T116778	\$ 244.00	CNISR2F03	T116779	\$ 267.00
CNIDA4F04	T116780	299.00	CNISR4F04	T116781	321.00
CNIDA8F05	T116782	367.00	CNISR8F05	T116783	396.00
CNIDA12F07	T116784	492.00	CNISR12F07	T116785	544.00
CNIDA20F07	T116786	688.00	CNISR20F07	T116787	725.00
CNIDA35F10	T116788	981.00	CNISR35F10	T116789	1,045.00
CNIDA55F12	T116790	1,269.00	CNISR55F12	T116791	1,557.00
CNIDA70F12	T116792	1,760.00	CNISR70F12	T116793	1,881.00
CNIDA100F14	T116794	2,203.00	CNISR100F14	T116795	2,400.00
CNIDA150F16	T116796	3,330.00	CNISR150F16	T116797	3,801.00
CNIDA250F16	T116798	4,176.00	CNISR250F16	T116799	5,727.00
CNIDA400F25	T116800	6,194.00	CNISR400F25	T116801	9,041.00

CNI Series - Chemically Nickel Impregnated for Superior Corrosion Resistance

2000 SERIES PNEUMATIC ACTUATORS (Rack & Pinion) (Thermoplastic Housing)

Actuator Figure#	Air to Air		Air to Spring		
	Actuator Material#	List Price	Actuator Figure#	Actuator Material#	List Price
NDA2011F04	T116952	\$ 89.00	NSR2011F04	T116953	\$ 131.00
NDA2014F05x07	T116954	134.00	NSR2014F05x07	T116955	190.00

NIBCO
AHEAD OF THE FLOW™

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FAX: 888.336.4226

INTERNATIONAL OFFICE
PHONE: +1/219.295.3221
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PNEUMATIC ACTUATOR ACCESSORIES

SOLENOID (Pilot) Control Valves

Material#	Description	List Price
T114221	NEMA-4, 110 VAC, Namur Direct Mount (ASCO)	\$ 220.00
T114223	NEMA-7, 110 VAC, Namur Direct Mount (ASCO)	263.00
T114222	NEMA-4, 24 VDC, Namur Direct Mount (ASCO)	220.00
T114224	NEMA-7, 24 VDC, Namur Direct Mount (ASCO)	263.00
T114367	NEMA-4, 12 VDC, Namur Direct Mount (ASCO)	278.00

Speed control integral to solenoid.

NIBCO BRAND SOLENOID (Pilot) Control Valves

Material#	Description	List Price
T114333	NEV-61, Left Pilot, NAMUR Mount, 1/4" NPT Port, 110 VAC	\$ 150.00
T114334	NEV-62, Dual Pilot NAMUR Mount, 1/4" NPT Port, 110 VAC	205.00
T114335	NEV-63, Right Pilot, NAMUR Mount, 1/4" NPT Port, 110 VAC	150.00

Separate speed control required.

Additional voltages and enclosures are available, consult factory for pricing and delivery.

A directional control valve is required for operation of all pneumatic actuators. The 120 VAC power source and a 1/4" NPT air supply are the only connections required for totally integral operation of a NIBCO Pneumatic Actuator.

SWITCH BOXES with Limit Switches

Material#	Description	List Price
T111271	NEMA-4, 110 VAC, (2) SPDT Switches (Westlock)	\$ 311.00
T114377	NEMA-4, 110 VAC, (4) SPDT Switches (Westlock)	405.00
T114332	NEMA-4, 110 VAC, (2) DPDT Switches (Westlock)	534.00
*	Mount and Drive Kit for Westlock Switch Boxes	67.50

* Specify NIBCO Actuator model number for correct mount kit.

NIBCO BRAND SWITCH BOXES with Limit Switches

Material#	Description	List Price
T114336	NTFC-110, NEMA-4x, (2) SPDT Microswitches	\$ 211.00
T114337	NTFC-120, NEMA-4x, (2) SPDT Proximity Sensors	299.00

Integral height and width adjustable feet for Namur mounting.

No mounting bracket required.

PNEUMATIC POSITIONERS

Material#	Description	List Price
T111270	3-15psi signal, Moore 740P	\$ 685.00
T116978	Moore 760P Pneumatic Positioner	936.00
T111780	Electro-pneumatic 4-20mA signal, Moore 750E	1,676.00
*T111776	Mount and Drive Kit for Moore Positioners	88.00

NIBCO BRAND PNEUMATIC POSITIONER

Material#	Description	List Price
T114338	NTFC-T4 3-15psi pneumatic signal	\$ 440.00
*	Mount and Drive Kit for NTFC-T4	123.00

* Specify NIBCO pneumatic actuator material number for correct mount kit. Actuator may be equipped with a positioner or switch box. Consult factory for positioner with limit switches.

PNEUMATIC ACTUATOR ACCESSORIES (Cont.)

PNEUMATIC SPEED CONTROL

Material#	Description	List Price
T114453	Meter Exhaust Speed Control	\$ 25.00
T114839	Tube Meter Exhaust Speed Control	75.00

For use with the NIBCO NEV series Solenoid Valve

ELECTRIC ACTUATORS

The NIBCO 100 Series Actuator offers a compact, rugged design for small packages.

100 SERIES

Actuator Figure#	Actuator Material#	Description	List Price
NE133-2-4	T115738	110 VAC, NEMA-4, 2 Second Cycle	\$ 391.58
NE133-10-4	T115740	110 VAC, NEMA-4, 10 Second Cycle	534.74
NE133-13-4	T115742	110 VAC, NEMA-4, 13 Second Cycle	560.00
NE144-2-4	T116901	110 VAC NEMA-4, 2 Second Cycle	391.58
NE144-10-4	T116905	110 VAC NEMA-4, 10 Second Cycle	534.74
NE144-13-4	T116909	110 VAC, NEMA-4, 13 Second Cycle	560.00
NE155-2-4	T116903	110 VAC, NEMA-4, 2 Second Cycle	391.58
NE155-10-4	T116907	110 VAC, NEMA-4, 10 Second Cycle	534.74
NE155-13-4	T116911	110 VAC, NEMA-4, 13 Second Cycle	560.00

300 SERIES

Actuator Figure#	Actuator Material#	Description	List Price
NE300-4-4	T115744	110 VAC, NEMA-4, 4 Second Cycle	\$ 760.00
NE300-10-4	T115752	110 VAC, NEMA-4, 10 Second Cycle	808.42
NE300-15-4	T115760	110 VAC, NEMA-4, 15 Second Cycle	855.79
NE300-30-4	T115768	110 VAC NEMA-4, 30 Second Cycle	902.11
NE300-4-7	T115745	110 VAC, NEMA-7, 4 Second Cycle	902.11
NE300-10-7	T115753	110 VAC, NEMA-7, 10 Second Cycle	950.53
NE300-15-7	T115761	110 VAC, NEMA-7, 15 Second Cycle	948.00
NE300-30-7	T115769	110 VAC, NEMA-7, 30 Second Cycle	1,045.26
NE300-4-4	T115746	220 VAC, NEMA-4, 4 Second Cycle	808.42
NE300-10-4	T115754	220 VAC, NEMA-4, 10 Second Cycle	855.79
NE300-15-4	T115762	220 VAC, NEMA-4, 15 Second Cycle	902.11
NE300-30-4	T115770	220 VAC, NEMA-4, 30 Second Cycle	950.53
NE300-4-7	T115747	220 VAC, NEMA-7, 4 Second Cycle	950.53
NE300-10-7	T115755	220 VAC, NEMA-7, 10 Second Cycle	997.89
NE300-15-7	T115763	220 VAC, NEMA-7, 15 Second Cycle	1,045.26
NE300-30-7	T115771	220 VAC, NEMA-7, 30 Second Cycle	1,092.63
NE300-4-4	T115750	24 VDC, NEMA-4, 4 Second Cycle	816.84
NE300-10-4	T115758	24 VDC, NEMA-4, 10 Second Cycle	864.21
NE300-15-4	T115766	24 VDC, NEMA-4, 15 Second Cycle	912.63
NE300-30-4	T115774	24 VDC NEMA-4, 30 Second Cycle	961.05
NE300-4-7	T115751	24 VDC, NEMA-7, 4 Second Cycle	961.05
NE300-10-7	T115759	24 VDC, NEMA-7, 10 Second Cycle	1,007.37
NE300-15-7	T115767	24 VDC, NEMA-7, 15 Second Cycle	1,054.74
NE300-30-7	T115775	24 VDC, NEMA-7, 30 Second Cycle	1,102.11

The NIBCO 300 Series Actuators combine compactness with manual override capabilities. Rated at 30% duty cycle.

ELECTRIC ACTUATORS (Cont.)

500 SERIES

Actuator Figure#	Actuator Material#	Description	List Price
500-10-4	T115776	110 VAC, NEMA-4, 10 Second Cycle	\$ 1,226.32
500-30-4	T115784	110 VAC, NEMA-4, 30 Second Cycle	1,615.79
500-10-7	T115777	110 VAC, NEMA-7, 10 Second Cycle	1,397.89
500-30-7	T115785	110 VAC, NEMA-7, 30 Second Cycle	1,801.05
500-10-4	T115778	220 VAC, NEMA-4, 10 Second Cycle	1,315.79
500-30-4	T115786	220 VAC NEMA-4, 30 Second Cycle	1,712.63
500-10-7	T115779	220 VAC NEMA-7, 10 Second Cycle	1,487.37
500-30-7	T115787	220 VAC, NEMA-7, 30 Second Cycle	1,896.84
500-10-4	T115782	24 VDC, NEMA-4, 10 Second Cycle	1,321.05
500-30-4	T115790	24 VDC, NEMA-4, 30 Second Cycle	1,717.89
500-10-7	T115783	24 VDC, NEMA-7, 10 Second Cycle	1,492.63
500-30-7	T115791	24 VDC, NEMA-7, 30 Second Cycle	1,902.11

The NIBCO 500 Series actuators are designed for the full mid-range torque market. Motor availability includes AC and DC voltages and are 100% duty cycle rated. Enclosures are CSA certified for NEMA-4 and NEMA-7 applications.

820 SERIES

Actuator Figure#	Actuator Material#	Description	List Price
820-12-4	T111383	110 VAC, NEMA-4, 12 Second Cycle	\$ 3,091.58
820-30-4	T111386	110 VAC, NEMA-4, 30 Second Cycle	3,447.37
820-12-7	T112288	110 VAC, NEMA-7, 12 Second Cycle	4,124.21
820-30-7	T112297	110 VAC, NEMA-7, 30 Second Cycle	4,505.26
820-12-4	T111385	220 VAC, NEMA-4, 12 Second Cycle	3,297.89
820-30-4	T111388	220 VAC NEMA-4, 30 Second Cycle	3,677.89
820-12-7	T112296	220 VAC NEMA-7, 12 Second Cycle	4,248.42
820-30-7	T112299	220 VAC, NEMA-7, 30 Second Cycle	4,397.00

830 SERIES

Actuator Figure#	Actuator Material#	Description	List Price
830-30-4	T114426	110 VAC, NEMA-4, 30 Second Cycle	\$ 4,075.79
830-30-7	T114429	110 VAC, NEMA-4, 30 Second Cycle	4,961.05
830-30-4	T114428	220 VAC, NEMA-7, 30 Second Cycle	4,175.79
830-30-7	T114431	220 VAC, NEMA-7, 30 Second Cycle	5,084.21

The NIBCO 800 Series Actuators are offered with output torques ranging from 3,000 to 10,000 inch pounds. Based upon a highly effective planetary gear system, this actuator series includes a full-time direct acting handwheel type manual override. Motors are rated for 100% duty cycle.

Enclosures are CSA Certified for NEMA-4 and NEMA-7 applications.

NE-SR5 SERIES ELECTRIC SPRING RETURN

Actuator Figure#	Actuator Material#	Description	List Price
NE-SR5-10-4	T117028	110 VAC, NEMA-4, 10 Second Cycle	\$3,267.00
NE-SR5-10-4	T117030	220 VAC, NEMA-4, 10 Second Cycle	3,387.00
NE-SR5-15-4	T117032	110 VAC, NEMA-4, 15 Second Cycle	4,285.00
NE-SR5-15-4	T117034	220 VAC, NEMA-4, 15 Second Cycle	4,405.00
NE-SR5-30-4	T117036	110 VAC, NEMA-4, 30 Second Cycle	4,982.00
NE-SR5-30-4	T117038	220 VAC, NEMA-4, 30 Second Cycle	5,102.00

ELECTRIC ACTUATOR ACCESSORIES

Material#	Description	List Price
T117027	Local/Remote Control Station, 110/220 VAC	\$ 812.00

NE-100 SERIES

Material#	Description	List Price
T116945	Switch Kit (2) Reversible SPDT (110 VAC, 24 VDC, 220 VAC)	\$133.68
T115947	Switch Kit (2) Unidirectional SPDT (110 VAC, 24VDC, 220 VAC)	133.68
T116946	Heater and Thermostat Kit	62.11

NE-300 SERIES

Material#	Description	List Price
T115468	Brake (110 VAC) (15 and 30 second only)	\$ 151.58
T115469	Brake (220 VAC) (15 and 30 second only)	213.68
T116949	Brake (24 VDC)	266.32
T115473	Switch Kit (2) SPDT (110 VAC, 24 VDC, 220 VAC)	133.68
T116979	110 VAC Modulating Control Kit	1,611.00
T116980	220 VAC Modulating Control Kit	1,611.00
T115159	Potentiometer Kit	205.26
T111377	Heater & Thermostat (110 VAC) (For field repair)	62.11
T114874	Heater & Thermostat (24 VDC) (For field repair)	59.00
T114868	Heater & Thermostat (220 VAC) (For field repair)	59.00

NE-500 SERIES

Material#	Description	List Price
T111370	Brake (110 VAC)	\$ 178.95
T114875	Brake (24 VDC)	205.26
T114876	Brake (220 VAC)	205.26
T111382	Switch Kit (2) SPDT (110 VAC, 24 VDC, 220 VAC)	177.89
T116983	110 VAC Modulating Control Kit	1,611.00
T116984	220 VAC Modulating Control Kit	1,611.00
T111371	Potentiometer Kit	205.26
T111377	Heater & Thermostat (110 VAC) (For field repair)	62.11
T114874	Heater & Thermostat (24 VDC) (For field repair)	59.00
T114868	Heater & Thermostat (220 VAC) (For field repair)	59.00

NE-800 SERIES

Material#	Description	List Price
*T111370	Brake (110 VAC)	\$ 178.95
*T114875	Brake (24 VDC)	205.26
*T114876	Brake (220 VAC) (12 second only)	205.26
T111382	Switch Kit (2) SPDT (110 VAC, 24 VDC, 220 VAC)	177.89
T116983	110 VAC Modulating Control Kit	1,611.00
T116984	220 VAC Modulating Control Kit	1,611.00
T114345	Potentiometer Kit	205.26
T111377	Heater & Thermostat (110 VAC) (For field repair)	62.11
T114874	Heater & Thermostat (24 VDC) (For field repair)	62.11
T114868	Heater & Thermostat (220 VAC) (For field repair)	59.00

* Brake only required on 12 second cycle units.

NOTES:

1. Ambient operating temperature for electronic components is +32°F to +140°F.
2. Positioners are set for 4-20 mA input and fail CW upon loss of signal, unless otherwise specified.
3. NIBCO does not recommend the use of any actuator with an opening speed of less than 30 seconds for modulating service.

ACTUATION DATA SHEET

Section I: Valve Information

A. Valve Type:

Butterfly Ball

B. Valve Material

Bronze PVC
 Ductile Iron CPVC
 Stainless PVDF
 Carbon Poly Pro

C. Figure No: _____

Size: _____

Quantity: _____

D. Type of fluid in valve: _____

Fluid is Dry Wet

Differential pressure: _____

Inlet pressure: _____

Specific gravity of fluid: _____

System velocity: _____

System gpm: _____

Temperature: _____

Frequency of operation: _____

Notes/Comments

Section II: Actuator Information

A. Electric

Voltage: _____

Time for 90° rotation: _____

Enclosure:

NEMA4 NEMA7 Other

Options:

Brake Heater
 Thermostat Manual Override
 Extra Switches Potentiometer
 Position Transmitter

Control:

4-20mA 0-10v 1-5v

B. Pneumatic

Actuator Type:

Air to Air Air to Spring

If air to spring:

Fail open Fail closed

Air supply pressure to actuator:

_____psi

Options:

Solenoid Valve:

Direct Mount Nipple Mount

Enclosure:

NEMA 4 NEMA 7

Switch Box:

SPDT DPDT

Enclosure:

NEMA 4 NEMA 7

Positioner:

Electro-pneumatic
(3-15psi to 4-20mA)
 Pneumatic 3-15psi



CHEMTROL MOUNTING KITS (Electric & Pneumatic)

BALL VALVES

**Tru-Bloc Ball Valves - True Union (PVC/CPVC)
For NDA and NSR Series Pneumatic and NE Series Electric**

Size	Pneumatic Air/Air		Pneumatic Air/Spring		Electric	
	Part#	List Price	Part#	List Price	Part#	List Price
1/2"	T117002	\$ 97.00	T117002	\$ 97.00	T116998	\$ 97.00
3/4"	T117003	97.00	T117009	97.00	T117009	97.00
1"	T117004	97.00	T117010	97.00	T117010	97.00
1 1/4"	T117005	112.00	T117011	112.00	T117011	112.00
1 1/2"	T117005	112.00	T117011	112.00	T117011	112.00
2"	T117006	115.00	T117012	115.00	T117012	115.00
3"	T117007	115.00	T117013	115.00	T117013	115.00
4"	T117008	115.00	T117014	115.00	T117014	115.00

BALL VALVES

**Tru-Bloc Ball Valves - True Union (PVC/CPVC)
For 2000 Series Pneumatic**

Size	Pneumatic Air/Air		Pneumatic Air/Spring	
	Part#	List Price	Part#	List Price
1/2"	T116960	\$ 97.00	T116960	\$ 97.00
3/4"	T116961	97.00	T116961	97.00
1"	T116962	97.00	T116962	97.00
1 1/4"	T116963	112.00	T116963	112.00
1 1/2"	T116963	112.00	T116963	112.00
2"	T116964	115.00	N/A	N/A

BUTTERFLY VALVES

Model "B" (PVC/CPVC)

Size	Pneumatic Air/Air		Pneumatic Air/Spring		Electric	
	Part#	List Price	Part#	List Price	Part#	List Price
3"	T115706	\$ 98.00	T115709	\$ 98.00	T115706	\$ 98.00
4"	T115712	98.00	T115715	98.00	T115718	98.00
6"	T115721	110.00	T115724	110.00	T115727	110.00

BUTTERFLY VALVES

Model "C" (PVC)

Size	Pneumatic Air/Air		Pneumatic Air/Spring		Electric	
	Part#	List Price	Part#	List Price	Part#	List Price
2"	T116819	\$ 110.00	T116823	\$ 110.00	T116819	\$ 110.00
2 1/2"	T116818	110.00	T116827	110.00	T116818	110.00
3"	T116824	110.00	T116827	110.00	T116818	110.00
4"	T116826	110.00	T116829	110.00	T116820	110.00
6"	T116830	110.00	T116837	110.00	T116830	110.00
8"	T116834	140.00	T116837	140.00	T111400	140.00
10"	T116840	140.00	T116846	140.00	T111397	140.00

Mount Kits include Steel Coupling, Adapter Plate, Mount Brackets and Hardware

MOUNTING KITS (Electric and Pneumatic)

Metal Ball and Butterfly Valves

BUTTERFLY VALVE (Wafer and Lug Style)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
2"	\$ 80.00	\$ 80.00	\$ 80.00
2½"	80.00	80.00	80.00
3"	80.00	80.00	80.00
4"	80.00	80.00	80.00
5"	80.00	107.00	80.00
6"	80.00	107.00	80.00
8"	107.00	117.00	117.00
10"	107.00	117.00	117.00
12"	107.00	135.00	135.00
14"	170.00	179.00	179.00
16"	258.00	258.00	258.00
18"	262.00	262.00	262.00
20"	286.00	286.00	286.00
24"	360.00	360.00	360.00

BUTTERFLY VALVE (Grooved and Flanged)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
2"	\$ 80.00	\$ 80.00	\$ 80.00
2½"	80.00	80.00	80.00
3"	80.00	80.00	80.00
4"	80.00	80.00	80.00
5"	80.00	80.00	80.00
6"	80.00	107.00	107.00
8"	80.00	107.00	107.00
10"	107.00	117.00	117.00
12"	107.00	117.00	117.00

2 PIECE STAINLESS BALL (T580-S6-R-66)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/2"	\$ 74.00	\$ 74.00	\$ 74.00
3/4"	74.00	74.00	74.00
1"	74.00	74.00	74.00
1¼"	74.00	74.00	74.00
1½"	74.00	74.00	74.00
2"	74.00	74.00	74.00

2 PIECE BRONZE BALL ISO Direct Mount (TM585-70-66)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/2"	\$ 30.00	\$ 30.00	\$ 30.00
3/4"	30.00	30.00	30.00
1"	30.00	30.00	30.00
1¼"	35.00	35.00	35.00
1½"	35.00	35.00	35.00
2"	35.00	40.00	35.00
2½"	81.00	81.00	81.00

2½" not direct mount (AT580-70-66). Kit includes studs, nuts and lock washers.

NOTES:

1. NIBCO Mounting kits include: Bracket, Drive Coupling and Hardware.
2. NIBCO Mounting kits are made of 300 Series Stainless Steel.
3. NIBCO Couplings are made of 300 Series Stainless or CNI Coated Carbon Steel.

3 PIECE CARBON & STAINLESS BALL (TM/KM-595)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/4"	\$ 92.00	\$ 92.00	\$ 92.00
3/8"	92.00	92.00	92.00
1/2"	92.00	92.00	92.00
3/4"	92.00	92.00	92.00
1"	92.00	92.00	92.00
1¼"	96.00	96.00	96.00
1½"	96.00	96.00	96.00
2"	96.00	96.00	96.00

3 PIECE BRONZE BALL (T-590/595Y)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/4"	\$ —	\$ —	\$ —
3/8"	—	—	—
1/2"	50.00	50.00	50.00
3/4"	50.00	50.00	50.00
1"	50.00	50.00	50.00
1¼"	62.00	62.00	62.00
1½"	62.00	62.00	62.00
2"	86.00	86.00	86.00
2½"	86.00	86.00	86.00
3"	86.00	86.00	86.00

UNIBODY FLANGED BALL (F-510/F-530)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/2"	\$ 92.00	\$ 92.00	\$ 92.00
3/4"	92.00	92.00	92.00
1"	92.00	92.00	92.00
1½"	92.00	92.00	92.00
2"	92.00	92.00	92.00
3"	137.00	137.00	137.00
4"	137.00	137.00	137.00
6"	167.00	167.00	167.00
8"	167.00	167.00	167.00

SPLIT BODY FULL BORE FLANGED BALL (F-515/F-535)

Size	Pneumatic		Electric
	Air/Air	Air/Spring	
1/2"	\$ 92.00	\$ 92.00	\$ 92.00
3/4"	92.00	92.00	92.00
1"	92.00	92.00	92.00
1½"	92.00	92.00	92.00
2"	92.00	92.00	92.00
3"	147.00	147.00	147.00
4"	147.00	147.00	147.00
6"	210.00	210.00	210.00
8"	267.00	267.00	267.00
10"	267.00	267.00	267.00
12"	267.00	267.00	267.00