



United States

ENGINEERING
TOMORROW

Danfoss

2023 Price List

Hydronic Comfort Controls

Effective January 01, 2023

300+ solutions that deliver reliable performance, raise comfort & reduce energy consumption.

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THERMOSTATIC VALVE OPERATORS

RA 2000 OPERATORS

1- 2- 3- 4- 5- 6- 7- 8- 9- 10-						
RA 2000 Operators	Code No.	Description		Required Valve Body	Master Carton Qty.	List Price (ea)
1	013G8250	RA 2000 Valve Mounted Dial & Sensor		RA 2000	60 pcs.	\$77.56
2	013G8252	RA 2000 Valve Mounted Dial w/ Remote Sensor			45 pcs.	\$109.43
3	013G8240	RA 2000 Tamper Resistant Valve Mounted Dial & Sensor			48 pcs.	\$99.73
4	013G2922	RA 2000 Tamper Resistant Valve Mounted Dial w/ Remote Sensor			45 pcs.	\$142.68
5	013G8562 *	RA 2000 Wall Mount Operator w/ combined Remote Mounted Sensor & Dial	6' (1.8 m) Capillary		24 pcs.	\$155.14
	013G8565 *		16' (4.9 m) Capillary			\$177.31
	013G8568 *		26' (7.9 m) Capillary			\$225.79
6	013G8564 *	RA 2000 Operator w/ Separate Remote Mounted Sensor & Dial			20 pcs.	\$235.48
7	013G5002	RA 2000 Manual Adjustment Handle. (Hot Water Only)			150 pcs.	\$18.01
8	013G1350	Angle Adaptor. (For use only on Hot Water Systems)			N/A	\$37.40
9	013G5120	RAS-D Valve Mounted Operator For High Altitude Applications			60 pcs.	\$77.56
10	013G5022	RAS-D Valve Mounted Operator w/ Sensor For High Altitude Applications			30 pcs.	\$109.43

* Note: Requires 013G8593 socket (ordered separately) if used on RAV, VMT or KOVM valves. See page16 for pricing.

RAVK (Direct replacement for RAVV)

Code No.	Type	Temperature Range	Required Valve Body	Capillary Length	List Price (ea)
003L3530	Thermostatic	50° - 86°F (10° - 30°C)	VMT or KOVM	6 ft. 6 in. (2 m)	\$336.03
013U8063		77° - 149°F (25° - 65°C)			\$336.03
003L3531		95° - 167°F (35° - 75°C)			\$336.03
017-437066	½" Brass Sensor Well for RAVV and RAVK				\$85.14
CROSS REFERENCE: RAVV >> RAVK					
RAVV		>>	RAVK		
013U1251	104° - 158°F (40° - 70°C)	>>	003L3531	95° - 167°F (35° - 75°C)	
013U1252	80° - 132°F (27° - 57°C)	>>	013U8063	77° - 149°F (25° - 65°C)	
013U1255	50° - 100°F (10° - 38°C)	>>	003L3530	50° - 86°F (10° - 30°C)	

FTC

Code No.	Type	Temperature Range	Required Valve Body	Master Carton Qty.	List Price (ea)
013G5081	Self Acting Thermostatic Operator c/w 6' 6" (2 m) capillary and strap on sensor. Celsius temperature scale on dial.	59° - 122°F (15° - 50°C)	RA 2000 or RA-C	20 pcs.	\$177.87
013G5080		95° - 158°F (35° - 70°C)			\$177.87

ELECTRIC ZONE VALVE ACTUATORS

Actuators are for use with hot & chilled water applications. NC = Normally Closed, NO = Normally Open. (Thermal actuators not recommended for low pressure steam applications).

TWA-A

Code No.	Description			Master Carton Qty.	List Price (ea)
	Type	Model	Required Valve Body		
088H3110	NC	TWA-A Actuator 24VAC 2.0 VA c/w valve position indicator.	RA 2000	60 pcs.	\$102.12
088H3111	NO				\$102.12
088H3114	NC 4 Wire w/ end switch	TWA-A Actuator 24VAC 2.0 VA c/w valve position indicator.			\$106.37

TWA-V

Code No.	Description			Master Carton Qty.	List Price (ea)
	Type	Model	Required Valve Body		
088H3120	NC	TWA-V Actuator 24VAC 2.0 VA	VMT 065F0102 or 065F0104 only	60 pcs.	\$134.02
088H3121	NO				\$134.02

ABRA-A5

Code No.	Description			Master Carton Qty.	List Price (ea)
	Type	Model	Required Valve Body		
082F1110	NC 4 wire w/ end switch	ABRA-A5 Actuator 24VAC 1.0 VA	RA 2000	10 pcs.	\$107.43

ABNM-A5

Code No.	Description			Master Carton Qty.	List Price (ea)
	Type	Model	Required Valve Body		
082F1111	NC	ABNM-A5 Modulating Actuator (requires 0 -10 VDC signal) 24VAC 1.0 VA	RA 2000	60 pcs.	\$242.53

ABRA/ABNM ADAPTOR RINGS

Code No.	Description	List Price (ea)
VA330000	Uponor manifold	\$6.39
VA50H	Honeywell Braukmann (except 110 Series)	\$9.58
VA54H	MMA, Macon	\$10.84
VA640000	RTI (Pettinaroli) manifold	\$10.84
VA780000	Danfoss RA2000	\$6.39
VA80H	Heimeier, Overtrop (since 1997), TACO (Alpha actuator, since 2005), Embassy manifold	\$9.58

ABV - Adjustable flow limitation and manual operation actuator

Code No.	Description			List Price (ea)
	Type	Model	Required Valve Body	
082F0002	NO	ABV Actuator 24VAC 9.0 VA	VMT or KOVM	\$296.80
082F0052	NC			\$296.80

VALVE BODIES

RA 2000

1-  2-  3-  4-  5-  6-  7- 											
Image	Code No.	Description					Master Carton Qty.	List Price (ea)			
		Connection		Cv	Design	Application					
		Size	Type								
1	013G8013	1/2"	FPT x MPT Union Tailpiece	1.6	Side Mount Angle	Hot or Chilled Water and 2 Pipe Low Pressure Steam	24 pcs.	\$69.26			
	013G8018	3/4"		2.1				\$78.96			
	013G8023	1"		2.8			18 pcs.	\$112.2			
	013G8030	1-1/4"		2.8				\$192.56			
2	013G8015	1/2"		FPT x MPT Union Tailpiece	1.6		Straight	Hot or Chilled Water and 2 Pipe Low Pressure Steam	24 pcs.	\$69.26	
	013G8020	3/4"			2.7					\$78.96	
	013G8025	1"			2.8				18 pcs.	\$112.20	
	013G8032	1-1/4"			2.8					\$192.56	
3	013G8014	1/2"		FPT x MPT Union Tailpiece	1.6		Angle		Hot or Chilled Water and 2 Pipe Low Pressure Steam	24 pcs.	\$69.26
	013G8019	3/4"			2.7						\$78.96
	013G8024	1"			2.8					18 pcs.	\$112.20
	013G8031	1-1/4"			2.8						\$192.56
4	013G8042	1/2"	Sweat Union	1.6	Straight	Hot or Chilled Water	35 pcs.			\$99.73	
	013G8044	3/4"		2.7						\$106.67	
5	013G0140	1/8"	NPT	NA	1 Pipe Steam with Vacuum Breaker	1 Pipe Steam	30 pcs.			\$135.75	
6	013L8011	1/8"	NPT	NA	Air Vent for 013G0140		N/A			\$54.03	
7	013G8074	3/4"	Danfoss valve insert conversion specifically for Dunham-Bush SWRF-B, ¾ " valve body					\$113.59			

RA 2000 1-PIPE STEAM RADIATOR TO HOT WATER CONVERSION VALVE (ALSO KNOWN AS SINGLE ENTRY VALVE)

Code No.	Size	Description				List Price (ea)
		Connection		Cv	Design	
		System	Radiator			
013G3270**	1/2"	Rp 1/2 int. thread	R 1/2	2.34	RA15/6T with internal bypass	\$145.46
013G3268**		G 3/4 ext. thread				\$131.59
013G3215**		Rp 1/2 int. thread		1.17	RA15/6TB without internal bypass	\$105.28
013G4116	1/2" Copper compression fitting for RA15/6T & TB, 2 pcs required, use with 013G3215 & 013G3270 only					\$9.69
013U0476	1/2" M. NPT tailpiece for RA15/6TB, 2 pcs required, use with 013G3268 only					\$27.71
013U8608	1/2" F. sweat tailpiece for RA15/6TB, 2 pcs required, use with 013G3268 only					\$27.71
013U0496	1/2" Union nut for RA15/6TB, 2 pcs required, use with 013G3268 only					\$9.69

** Required tailpieces or compression fittings ordered separately.

VALVE BODIES

VMT Note: Assembly of RA2000 to VMT requires additional socket, which must be ordered separately (Pg. 16 - Code No. 013G8593).

Code No.	Description					List Price (ea)
	Connection		Cv	Design	For use with	
	Size	Type				
065F0102	1/2"	Sweat	1.8	Straight Union	RAVK, ABV, TWA-V, RA2000 (013G8562, 013G8565, 013G8568, 013G8564)	\$125.52
065F0104	3/4"		2.7		\$149.05	
065F8960	1/2"		3.3		RAVK, ABV (013G8562, 013G8565)	\$150.36
065F8961	3/4"		5.9			\$175.21
065F1242	1"		NPT (M)			9.4

RA-C

Code No.	Conn. Size	Pre-settings: Cv Value				Water Temp.	Master Carton Qty.	List Price (ea)
		1	2	3	N			
013G3094	1/2"	0.35	0.64	0.88	1.05	50° - 248°F (10° - 120°C)	75 pcs.	\$81.07
013G3096	3/4"	0.94	1.29	1.99	3.04		48 pcs.	\$183.05
013U0496	1/2"	Nut						\$9.69
013U8608		Tailpiece - Female Sweat						\$27.71
013U0476		Tailpiece - Male Threaded						\$27.71
013U0499	3/4"	Nut						\$12.46
013G8139		Tailpiece - Female Sweat						\$29.09
013U0479		Tailpiece - Male Threaded						\$29.09

Note: Separate nut and tailpiece (threaded or sweat) required (2 sets per valve).

KOVM Note: Assembly of RA2000 to KOVM requires additional socket, which must be ordered separately (Pg. 16, Code No. 013G8593).

Code No.	Connection			Design	For use with	List Price (ea)
	Size	Type	Cv			
013U3017	1/2"	NPT	1.75	3-Way Heating or Cooling Mixing Valve	RAVK, ABV, RA 2000 (013G8562, 013G8565, 013G8568, 013G8564)	\$219.67
013U301501		Comp.				
013U302001			2.34			\$343.88

ZONE VALVE PACKS

TWA Basic (For use with hot and chilled water applications)

Code No.	Model	Connection			Description	List Price (ea)
		Size	Type	Cv		
TWA42000	TWA Basic	1/2"	Sweat	1.6	088H3114 24V actuator with end switch. 013G8042 -1/2" sweat union valve.	\$115.95
TWA44000		3/4"		2.7	088H3114 24V actuator with end switch. 013G8044 -3/4" sweat union valve.	\$121.26

ZONE VALVE PACKS

ABRA-A5 BASIC (FOR USE WITH HOT AND CHILLED WATER APPLICATIONS)

Code No.	Model	Connection			Description	List Price (ea)
		Size	Type	Cv		
ABRA54200	ABRA-A5 Basic	1/2"	Sweat	1.6	082F1110 24V actuator with end switch. 013G8042 -1/2" sweat union valve.	\$157.44
ABRA54400		3/4"		2.7	082F1110 24V actuator with end switch. 013G8044 -3/4" sweat union valve.	\$161.69

THERMOSTATIC HEATING/COOLING CONTROLS (For Fan Coils And Induction Units)

FEK

Code No.	Type	Application	Sensor	Capillary Length	Setting Range	Required Valve Body	List Price (ea)
013G5465	FEK-IF	Control of Cooling Circuit	Integrated	16 ft. (5 m)	63° - 80°F (17° - 27°C)	RA-C	\$525.62
013G5464	FEK-FF		Remote	6 + 6 ft. (2 + 2 m)			\$596.22

FEV

Code No.	Type	Application	Sensor	Capillary Length	Setting Range	Required Valve Body	List Price (ea)
013G5467	FEV-IF	Control of Heating Circuit	Integrated	16 ft. (5 m)	63° - 80°F (17° - 27°C)	RA 2000 or RA-C	\$525.62
013G5466	FEV-FF		Remote	6 + 6 ft. (2 + 2 m)			\$596.22

FED

Code No.	Type	Application	Sensor	Capillary Length	Setting Range	Required Valve Body	List Price (ea)
013G5463	FED-IF	Sequence Control of Cooling and Heating Circuit	Integrated	13+ 36 ft. (4+11 m)	63° - 80°F (17° - 27°C)	Cooling Circuit: RA-C Heating Circuit: RA 2000	\$661.61
013G5462	FED-FF		Remote	6+6+6 ft. (2+2 +2 m)		Cooling Circuit: RA-C Heating Circuit: RA 2000 or RA-C	\$724.35

THERMOSTATIC FLOOR HEATING CONTROLLERS

FHV-R

Code No.	Model	Description	List Price (ea)
003L1000	FHV-R	Single Zone Return Temperature Sensing Control Valve	\$254.48
013U0496	For FHV-R control valve (Order two nuts and two tailpieces per control valve)	1/2" Union Nut	\$9.69
013U8608		1/2" Sweat Female Tailpiece	\$27.71
013U0476		1/2" Male Threaded Tailpiece	\$27.71
003L1040	FJVR	Return Temperature Limiter Sensor. Setting range: 50° - 122°F (10° - 50°C)	\$95.57
003L1070		Return Temperature Limiter Sensor. Setting range: 50° - 176°F (10° - 80°C)	\$95.57

THERMOSTATIC FLOOR HEATING CONTROLLERS

FHV-A

Code No.	Model	Description	List Price (ea)
003L1001	FHV-A	Single Zone Ambient Room Temperature Control Valve	\$254.48
013U0496	For FHV-A control valves (Order two nuts and two tailpieces per control valve)	1/2" Union Nut	\$9.69
013U8608		1/2" Sweat Female Tailpiece	\$27.71
013U0476		1/2" Male Threaded Tailpiece	\$27.71
013G8250	RA 2000	Room Temperature Operator	\$77.56

ROOM THERMOSTATS

RMT (Electromechanical)

Code No.	Model No.	Operating Voltage	Switching Voltage	Scale	Night Set Back	Master Carton Qty.	List Price (ea)
087N1196	RMT-24	24 VAC	24 VAC	°C	No	N/A	\$71.28

SNOW & ICE MELTING CONTROLS

SNOW/ICE MELT CONTROLS

Code No.	Model	Power Supply	Mounting	Relay	Ambient Temperature	Temp. Sensor	Precipitation Sensor	List Price (ea)
088L3041	DS-224	24VAC or DC	Rigid conduit or surface	Single 30A, Dry contact	-40° - 185°F (-40° - 85°C)	Integrated	Integrated	\$1,031.89
088L3042	DS-824	24VAC or DC	Rigid conduit or surface	Single 30A, Dry contact	-40° - 185°F (-40° - 85°C)	Integrated	Remote, 10ft (3m)	\$1,047.52

TEMPERATURE CONTROL VALVES

AVTB, direct acting, heating application (closes on a rise in sensor temperature)

Code No.	Model	Connection		Cap. Length	Temperature Range	Master Carton Qty.	List Price (ea)
		Size (FNPT)	Cv				
003N6032	AVTB 15	1/2"	2.2	6'6" (2.0 m)	32° - 86°F (0° - 30°C)	10 pcs.	\$673.36
003N6252					70° - 140°F (20° - 60°C)		\$673.36
003N6272					125° - 190°F (50° - 90°C)		\$673.36
003N7032	AVTB 20	3/4"	4.0		32° - 86°F (0° - 30°C)		\$729.58
003N7252					70° - 140°F (20° - 60°C)		\$729.58
003N7272					125° - 190°F (50° - 90°C)		\$729.58
003N8032	AVTB 25	1"	6.4		32° - 86°F (0° - 30°C)		\$767.50
003N8252					70° - 140°F (20° - 60°C)		\$767.50
003N8272					125° - 190°F (50° - 90°C)		\$767.50

AVTB-RA, reverse acting, cooling application (opens on a rise in sensor temperature)

Code No.	Model	Connection		Cap. Length	Temperature Range	Master Carton Qty.	List Price (ea)
		Size (FNPT)	Cv				
003N6032RA	AVTB-RA 15	1/2"	2.2	6'6" (2.0 m)	32° - 86°F (0° - 30°C)	10 pcs.	\$673.36
003N6252RA					77° - 149°F (25° - 65°C)		\$673.36
003N6272RA					122° - 194°F (50° - 90°C)		\$673.36
003N7032RA	AVTB-RA 20	3/4"	4.0		32° - 86°F (0° - 30°C)		\$729.58
003N7252RA					77° - 149°F (25° - 65°C)		\$729.58
003N7272RA					122°- 194°F (50° - 90°C)		\$729.58
003N8032RA	AVTB-RA 25	1"	6.4		32°- 86°F (0° - 30°C)		\$767.50
003N8252RA					77° - 149°F (25° - 65°C)		\$767.50
003N8272RA					122° - 194°F (50° - 90°C)		\$767.50

AVTB-RA Sensor Pockets

Code No.	Description	Size	List Price (ea)
AVTBWELL	Sensor Pocket Max. pressure 341 Psi, L = 8.7" (25 bar / 220 mm)	3/4" NPT, Brass for 0.7" sensor	\$170.39
003N005308		3/4" NPT, Stainless Steel for 0.7" sensor	\$354.34

BALANCING VALVES

STV (THREADED) / STVL (FEMALE SWEAT)

Code No.	Connection		Cv	Valve Body Material	List Price (ea)
	Size	Type			
065F8965	1/2"	NPT	4.1	Brass	\$132.05
065F896501		Sweat			\$132.05
065F8966	3/4"	NPT	5.9		\$149.05
065F896601		Sweat			\$149.05
065F8967	1"	NPT	10.2		\$180.43
065F896701		Sweat			\$180.43
065F8968	1-1/4"	NPT	15.2		\$277.19
065F896801		Sweat			\$277.19
065F8969	1-1/2"	NPT	22.6		\$333.41
065F896901		Sweat			\$333.41
065F8970	2"	NPT	36.5		\$477.25
065F897001		Sweat			\$477.25

BALANCING VALVES

STVA (FLANGED)

Code No.	Connection		Cv	Valve Body Material	List Price (ea)
	Size	Type			
065F8971	2-1/2"	Flanged (ANSI Class 125)	108	Cast Iron	\$1,121.84
065F8972	3"		128		\$1,695.83
065F8973	4"		220		\$2,380.95
065F8974	5"	(Flanges not supplied)	349		\$3,443.97
065F8975	6"		493		\$4,496.50

PRESSURE BYPASS VALVES

AVDO

Code No.	Model	Connection		Description	List Price (ea)
		Size	Type		
003L602001	AVDO 15	1/2"	Union Sweat	Straight Valve Body	\$317.23
003L602002			Union Male, NPT		\$317.23
003L602501	AVDO 20	3/4"	Union Sweat		\$350.46
003L602502			Union Male, NPT		\$350.46
003L603002	AVDO 25	1"	Union Male, NPT		\$440.49

ROTARY MIXING VALVES, ACTUATORS AND SETPOINT CONTROLS

ESBE 3-WAY MIXING VALVES

ESBE Series VRG130

Code No.	Connection		Cv	Body	Reference	List Price (ea)
	Size	Type				
193B1500	1/2"	FNPT	2.9	3 Way DZR Brass	VRG 131	\$221.64
193B1501	3/4"		4.7			\$221.64
193B1502	3/4"		7.3			\$221.64
193B1503	1"		7.3			\$239.63
193B1504	1"		11.7			\$239.63
193B1505	1-1/4"		18.7			\$260.42
193B1506	1-1/2"		29.3			\$307.52
193B1507	2"		46.8			\$487.59

ESBE Type F 3-way valves

Code No.	Connection		Cv	Body	Reference	List Price (ea)
	Size	Type				
065B8960	2-1/2"	Flanged, Flat Face (ANSI Class 125)	75	3 Way Cast Iron	3 F 65-50	\$1,112.33
065B8961	2-1/2"		105		3 F 65	\$1,112.33
065B8962	3"		175		3 F 80	\$1,392.14
065B8963	4"		265		3 F 100	\$2,149.86
065B8964	5"		325		3 F 125	\$2,328.55
065B8965	6"		465		3 F 150	\$3,181.84

ROTARY MIXING VALVES, ACTUATORS AND SETPOINT CONTROLS

ESBE 4-WAY MIXING VALVES
ESBE SERIES VRG140

Code No.	Connection		Cv	Body	Reference	List Price (ea)
	Size	Type				
193B1531	3/4"	FNPT	4.7	4 Way DZR Brass	VRG 141	\$245.19
193B1532	3/4"		7.3			\$245.19
193B1533	1"		11.7			\$290.88
193B1534	1-1/4"		18.7			\$321.37
193B1535	1-1/2"		29.3			\$448.81
193B1536	2"	F. Sweat	46.8			\$576.26
193B1537	3/4"		2.9			\$349.08
193B1538	1"		7.3			\$375.40
193B1539	1 1/4"		13.9			\$423.87

ESBE TYPE F 4-WAY VALVES (DIN FLANGES AND GASKETS SOLD SEPARATELY)

Code No.	Connection		Cv	Body	Reference	List Price (ea)
	Size	Type				
065B6150	2"	Flanged, Raised Face (DIN)	75	4 Way Cast Iron	4 F 50	\$1,205.52
065B6165	2-1/2"		105		4 F 65	\$1,344.11
065B6180	3"		175		4 F 80	\$1,485.32
065B6200	4"		265		4 F 100	\$2,303.82
065B6225	5"		325		4 F 125	\$2,482.95
065B6250	6"		465		4 F 150	\$6,648.65

ESBE TYPE F 4-WAY VALVES DIN FLANGE AND GASKETS

Code No.	Size	Description	List Price (ea)
065F8950	2"	Slip-on Mating DIN Flange (Four Flanges Required per 4 Way Valve)	\$45.70
082F8961	2-1/2"		\$54.03
082F8962	3"		\$90.04
082F8963	4"		\$102.50
082F8964	5"		\$139.91
082F8965	6"		\$160.69
065F8951	2"	Gasket for DIN Flange (Four Gaskets Required per 4 Way Valve)	\$12.46
082F8966	2-1/2"		\$26.31
082F8967	3"		\$30.47
082F8968	4"		\$38.79
082F8969	5"		\$44.32
082F8970	6"		\$58.18

ROTARY MIXING VALVES, ACTUATORS AND SETPOINT CONTROLS

ESBE ARA MOTORIZED ACTUATORS
FLOATING (3 POINT), 24VAC

Code No.	Series	Run Time for 90° (sec.)	Internal Auxiliary Switch	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
193B1600	ARA663	96	No	53 (6)	ESBE Valves up to 2"	\$385.09
193B1601	ARA644	24	Yes			\$446.04
193B1602	ARA654	48				\$446.04
193B1603	ARA664	96				\$446.04

2 POINT, 24VAC (CAN ALSO BE WIRED AS 3 POINT)

Code No.	Series	Run Time for 90° (sec.)	Internal Auxiliary Switch	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
193B1604	ARA638	12	Yes	26 (3)	ESBE Valves up to 1¼ "	\$501.45
193B1605	ARA648	24		53 (6)	ESBE Valves up to 2"	\$501.45

PROPORTIONAL 24VAC/ 24VDC (CABLE INCLUDED, WIRE LEADS NOT CONNECTED)

Code No.	Series	Run Time for 90° (sec.)	Input Signal	Internal Auxiliary Switch	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
193B1606	ARA639	15 / 30 / 60 / 120	Proportional 0-10Vdc, 2-10Vdc, 0-20mA, 4-20mA	Available, ordered separately: Code No. 16200700	53 (6)	ESBE Valves up to 2"	\$922.55
193B1607	ARA659	45 / 120					\$922.55

ESBE CRA SETPOINT CONTROLS (WITH DIGITAL DISPLAY)

CRA complete control packages include actuator, sensor (4.9 ft/1.5 m) and controller. Optional 16 ft/5 m sensor can be ordered separately. See Spare Parts and Accessories on Page 21.

Code No.	Series	Power Supply	Input Signal	Display	Run Time for 90 ° (sec.)	Designed for Use With	List Price (ea)
12720212	CRA112	24VAC	Floating (3 point)	°F and °C	25	ESBE Valves up to 2" only	\$984.89
12742212	CRA122				Selectable 12/25/50/200/398	ESBE (All Valve Sizes)	\$1,315.97

ESBE SERIES 90 MOTORIZED ACTUATORS

24VAC, Note: If using with VRG style valves, must use mounting kit 193B1616 - see below.

Code No.	Series	Input Signal	Run Time for 90° (sec.)	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
065F8952	91EM	Floating (3 point)	12	45 (5)	ESBE Valves up to 2" only	\$649.67
065F8953	92EM	Floating (3 point) c/w aux. switch	50	135 (15)	All ESBE Valve Sizes	\$649.67
065F8959	92-2EM		100			\$649.67
065F8954	93EM		240			\$649.67
065F8955	92P	Proportional (0-10 V, 2-10 V, 0-20 mA, 4-20 mA)	60 / 90 / 120		Max. Differential pressure drop: 1-1/2" - 2": 8 psi 2-1/2" - 6": 5 psi	\$1,315.97

Required Kit for Series 90 to VRG Valve

Code No.	Series	Description	List Price (ea)
193B1616	VRG Mounting Kit	VRG Mounting Kit: Required Mounting Kit for Series 90 Actuator to VRG valves	\$80.34

ROTARY MIXING VALVES, ACTUATORS AND SETPOINT CONTROLLERS

ESBE ARC/ARD HIGH TORQUE ACTUATORS

ARC, 24VAC/ 24VDC (NOTE: ARC/ARD ACTUATORS INCLUDE MOUNTING KIT.)

Code No.	Series	Input Signal	Internal Auxiliary Switch	Run Time for 90° (sec.)	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
12201100	ARC363	2-point, ON/OFF	No	150	265 (30)	ESBE Type F valves 2" and larger	\$918.40
		Floating (3 point)					
12220200	ARC368	0(2)...10VDC	Yes				\$1,396.30
		0(4)...20mA					

ARD, SPRING RETURN, 24VAC/ 24VDC

Code No.	Series	Input Signal	Internal Auxiliary Switch	Run Time for 90° (sec.)	Torque in. lb. (Nm)	Designed for Use With	List Price (ea)
12241200	ARD257	2-point, ON/OFF	No	75	177 (20)	ESBE Type F valves 2" and larger	\$1,205.14
				20, spring return			
12260200	ARD269	0(2)...10VDC	No	150			\$1,381.06
		0(4)...20mA		20, spring return			

BOILER RETURN TEMPERATURE PROTECTION, SOLID FUEL & SOLAR CONTROLS

VTC511 VALVE BODY (THERMOSTATIC 3-WAY VALVE FOR BOILER PROTECTION OR SYSTEM REGULATION. THERMOSTATIC ELEMENT ORDERED SEPARATELY.)

Code No.	Series	Description				List Price (ea)
		Connection		Cv	Valve Housing	
		Size	Type			
193B1701	VTC511	1-1/4"	FNPT	16.2	Cast Iron	\$319.98

VTC511 VALVE THERMOSTATS

Code No.	Series	Description	Opening Temperature	Typical Piping	List Price (ea)
193B1702	VTC511	Thermostat	122°F (50°C)	Return	\$69.26
193B1703	VTC511	Thermostat	131°F (55°C)	Return	\$69.26
193B1704	VTC511	Thermostat	140°F (60°C)	Return	\$69.26
193B1709	VTC511	Thermostat	149°F (65°C)	Supply	\$69.26
193B1705	VTC511	Thermostat	158°F (70°C)	Supply	\$69.26
193B1706	VTC511	Thermostat	167°F (75°C)	Supply	\$69.26

Note: Valve body and thermostat sold separately. Order one valve body and one thermostat to assemble a complete valve.

ESBE ATA THERMOSTATIC DRAFT REGULATOR (FOR SOLID FUEL BOILERS)

Code No.	Size	Lifting Force	Lifting Stroke	Chain Length	Regulating Range	List Price (ea)
065B8900	3/4" MNPT	2.2 Pound-force (10N)	2.2" (55 mm)	5.25 ft. (1.6 m)	Adjustable within range of 95° - 203°F (35° - 95°C)	\$149.60

THERMOSTATIC MIXING VALVES

ESBE VTA SERIES LEAD FREE THERMOSTATIC MIXING VALVES

The VTA Series replaces Series 20 and 30MR styles of valves.

FEMALE NPT CONNECTION FOR OPEN OR CLOSED LOOP.

Code No.	Valve Size	Temperature Range	Cv	List Price (ea)
065B8868LF	¾"	70° - 110°F (20° - 45°C)	1.9	\$245.81
065B8869LF	¾"	85° - 120°F (30° - 49°C)	1.9	\$189.59
065B8870LF	¾"	95° - 140°F (35° - 60°C)	1.9	\$189.59
065B8871LF*	¾"	85° - 160°F (30° - 70°C)	1.9	\$189.59
31622111LF	1"	85° - 120°F (29° - 49°C)	4.1	\$313.79
31622011LF	1"	95° - 140°F (35° - 60°C)	4.1	\$313.79

*065B8871LF FOR CLOSED LOOP ONLY. NOT FOR INSTALLATION IN DOMESTIC HOT WATER.

SWEAT & CPVC CONNECTIONS (Kits include all tailpiece connections for valve body)

Valve Body				+	Required Tailpiece Kit		
Code No.	Cv	Temperature Range	List Price (ea)		Code No.	Size/Description	List Price (ea)
065B8877LF	1.9	85° - 120°F (30° - 49°C)	\$189.59		065B8901	½" Sweat Tailpiece Kit	\$85.88
065B8878LF	1.9	95° - 140°F (35° - 60°C)	\$189.59		065B8892	¾" Sweat Tailpiece Kit	\$66.69
065B8872LF*	1.9	85° - 160°F (30° - 70°C)	\$189.59		065B8898	¾" CPVC Tailpiece Kit	\$40.54

* 065B8872LF FOR CLOSED LOOP ONLY. NOT FOR INSTALLATION IN DOMESTIC HOT WATER.

Example: Requirement: ¾" CPVC valve with a 85° - 120°F (30° - 49°C) Temperature Range.

Quantity to Order:	Valve Body/Required Tailpiece Kit (Order One Tail Piece Kit Per Valve)	
	Code No.	Temp. Range/Description
1	065B8877LF	85° - 120°F (30° - 49°C)
1	065B8898	¾" CPVC Tailpiece Kit

Note: Union valve bodies and tailpiece kits for ESBE VTA series of valves with solder and CPVC connections are ordered separately. If the CPVC tailpieces are used with the union valve body, always follow the pipe manufacturer's instructions.

ESBE VTA 570 3-WAY THERMOSTATIC MIXING OR DIVERTING VALVE (CLOSED LOOP)

VTA 570 TMV- RADIANT HEATING APPLICATIONS (CLOSED LOOP, NOT FOR POTABLE WATER, TEMP. RANGE: 50°F - 86°F / 10°C - 30°C)

Valve Body Code No.		Required Tailpiece Kit Code No.	Connection		Cv	List Price (ea)	
			Size	Type		Valve	Tailpiece
31700100	+	065B8901	¾"	Union x ½" F. sweat	5.2	\$311.18	\$85.88
	+	065B8892		Union x ¾" F. sweat			\$66.69

VTA 570 TMV - RADIANT HEATING APPLICATIONS (CLOSED LOOP, NOT FOR POTABLE WATER, TEMP. RANGE: 68°F - 109°F / 20°C - 43°C)

Valve Body Code No.		Required Tailpiece Kit Code No.	Connection		Cv	List Price (ea)	
			Size	Type		Valve	Tailpiece
31700200	+	065B8901	¾"	Union x ½" F. sweat	5.2	\$311.18	\$85.88
	+	065B8892		Union x ¾" F. sweat			\$66.69

SPARE PARTS AND ACCESSORIES
THERMOSTATIC RADIATOR VALVES & OPERATOR SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
013G8591	Replacement Socket Body	RA 2000 Wall Mount Operators + RA 2000 Valve Bodies	\$30.47
013G5503	Bellows Holder (Order 2 pcs. per operator)	RA 2000 Wall Mount Operators + RA 2000 Valve Bodies or RAV, VMT, and KOVM Valve Bodies	\$2.78
013G8593	Replacement Socket Body	RA 2000 Wall Mount Operators + RAV, VMT, and KOVM Valve Bodies	\$23.54
013L8011	1 Pipe Steam Air Vent	1 Pipe Steam RA 2000 Valves	\$54.03
013U7175	Replacement Vacuum Breaker	RA 2000 1-pipe steam valve, 013G0140	\$13.85
013G0290	Packing Gland (Priced individually & sold in multiples of 10.)	All RA 2000 Valves	\$29.09
013U0070	Packing Gland (Priced & sold individually)	VMT, KOVM, RAV, FHV-R and RAVL Valves	\$41.56
013G0554	Packing Gland (Priced individually & sold in multiples of 10.)	RA-C Valves	\$19.61
013-7045	Gasket	RA Valves	\$9.69
013G8070	RA to RA 2000 Adapter	Allows RA 2000 Operators to fit RA Valves	\$96.95
013G8072	RAV to RA 2000 Adapter	Allows RA 2000 Operators to fit RAV Valves	\$96.95
013G1236	Tool Set 2mm Allen Key and Locking Pin Tool	All RA 2000 Operators	\$41.56
013G1237	Limitation Pins (Priced & sold in multiples of 20.)	013G8240 & 013G2922 Operators	\$34.63
013G1232	Cover Plugs for locking screws (Priced individually & sold in multiples of 50.)		\$1.38
013G1672	Cover Plate for scale (Priced & sold in multiples of 20.)		\$2.78
013G1246	Limitation Pins (Priced & sold in multiples of 10.)	013G8250 & 013G8252 Operators	\$13.85
013G5245	Anti-theft protection clips (Priced & sold in multiples of 20.)		\$36.02
013L8300	45° Street Elbow for 1-PS (On Convectors - order 2 pcs. per valve)	1 Pipe Steam RA 2000 Valves	\$16.62
013G1350	Angle Adapter	RA 2000 Valves / Operators	\$37.40
013X3180	RAVB Replacement Kit	Replaces RAVB Operator with Valve Mounted Sensor and Dial	\$216.09
013X3182	RAVB Replacement Kit For use only on Hot Water Systems	Replaces RAVB Operator with Remote 6 ft. (1.8 m) Sensor	\$243.81
013G7216	Protective grey cap for radiator valves	RA 2000 Valves	\$12.46
013U0476	Tailpiece	1/2"	\$27.71
013U0479		3/4"	\$29.09
013U0489		1"	\$30.47
013U0504		1-1/4"	\$45.70
013U8608		1/2"	\$27.71
013G8139		3/4"	\$29.09
013U0496	Union Nut	1/2"	\$9.69
013U0499		3/4"	\$12.46
013G8132		1"	\$18.01
013U0507		1-1/4"	\$42.96

SPARE PARTS AND ACCESSORIES
THERMOSTATIC RADIATOR VALVES & OPERATOR SPARE PARTS Cont'd

Code No.	Description	For Use With		List Price (ea)
013G8037	RA 2000 Valve Insert - suitable for valves manufactured after 1990 (Priced individually, sold in multiples of 8)	1/2"	Angle & Straight (NPT)	\$36.02
013G8038		1/2" sweat, 1/2"	Side mount Angle (NPT)	\$37.40
013G8039		3/4" sweat, 3/4", 1", 1 1/4"	All	\$38.79
003L0213	Assembly/Disassembly Tool for Valve Insert RA 2000, RA-C			\$128.83

ESBE VRG 3 & 4 WAY MIXING & DIVERTING VALVES SPARE PARTS

Code No.	Description	List Price (ea)
17006940	VRG Valve Knob & Scale	\$26.31
17006900	Valve Shaft & Seal Kit, 1/2" & 3/4" 3 & 4-way	\$60.95
17006910	Valve Shaft & Seal Kit, 1" 3 & 4-way	\$60.95
17006920	Valve Shaft & Seal Kit, 1 1/4" & 1 1/2" 3 & 4-way	\$60.95
17006950	Valve Shaft & Seal Kit, 2" 3 & 4-way	\$60.95

ESBE 3-WAY MG VALVE SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
065B8956	Interior Complete	1" (065B8968, internal valve diameter 1.65" (42mm)) to 1 1/4" (32mm)	\$162.07
082F8975		1/2" to 1" (065B8972, internal valve diameter 1.1" (28mm))	\$155.14
082F8976	Gasket Set	1" (065B8968) to 1 1/4", 1/2" to 1" (065B8972)	\$40.18

ESBE 4-WAY MG VALVE SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
065B8957	Interior Complete	1" (065B8985, internal valve diameter 1.65"(42mm) to 1 1/4"(32mm)), 065B8986 1 1/4" sweat	\$196.71
082F8977		1/2" to 1" (065B8984, internal valve diameter 1.1"(28mm)), 065B8967, 3/4" sweat & 065B8990, 1" sweat	\$185.62
082F8976	Gasket Set	1" (065B8985) to 1 1/4", 1/2" to 1" (065B8984)	\$40.18

SPARE PARTS AND ACCESSORIES

ESBE 3-WAY G AND F VALVE SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
082F8979	Interior Complete	1-1/2" NPT	\$196.71
082F8980		2" NPT	\$277.05
082F8981		2-1/2" ANSI Flange	\$534.69
082F8982		3" ANSI Flange	\$766.02
082F8983		4" ANSI Flange	\$1,205.14
082F8984		5" ANSI Flange	\$1,386.60
082F8985		6" ANSI Flange	\$1,856.18
065B0003	Gasket Set	1-1/2" NPT, 2" NPT, 2-1/2" ANSI Flange	\$71.91
065B0004		3" ANSI Flange, 4" ANSI Flange, 5" ANSI Flange, 6" ANSI Flange	\$71.91

ESBE 4-WAY G AND F VALVE SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
082F8986	Interior Complete	1-1/2" NPT	\$254.88
082F8987		2" NPT	\$347.69
082F8988		2" and 2-1/2" DIN Flange	\$543.00
082F8989		3" DIN Flange	\$789.57
082F8990		4" and 5" DIN Flange	\$1,083.23
082F8991		6" DIN Flange	\$2,137.39
065B0003	Gasket Set	1-1/2" NPT, 2" NPT, 2" and 2-1/2" DIN Flange	\$71.91
065B0004		3" DIN Flange, 4" DIN Flange, 5" DIN Flange, 6" DIN Flange	\$71.91

ESBE SERIES 60 ACTUATORS SPARE PARTS

Code No.	Description	List Price (ea)
065B8929	Drive Sleeve	\$29.09

ESBE SERIES 90 ACTUATORS

Code No.	Description	List Price (ea)
25413000	Drive Sleeve	\$29.09
193B1615	MG, G and F mounting kit	\$83.11
193B1616	VRG mounting kit	\$80.34

SPARE PARTS AND ACCESSORIES

ESBE ARA600 SERIES SPARE PARTS

Code No.	Description	List Price (ea)
16000500	Assembly kit: drive sleeve, mounting stud, scale and mounting screw	\$34.63
17050600	ARA motor actuator knob	\$20.79
16200700	Auxiliary end switch kit, includes end switch, cable and wiring plate cover	\$96.95

ESBE CRA112/122 SETPOINT CONTROL ACCESSORIES/SPARE PARTS

Code No.	Description	For Use With	List Price (ea)
17053100	CRA911 Temperature sensor, 16ft (5m)	CRA112/CRA122	\$81.72
193B1615	Replacement actuator mounting kit: drive sleeve, mounting stud, scale and mounting screw	MG, G and F series	\$83.11
17053500	CRA913 Replacement 24V cable lead	CRA112 Only	\$41.56
193B1616	VRG Adapter kit	CRA122 Only	\$80.34

ESBE SERIES 20 THERMOSTATIC MIXING VALVE SPARE PARTS

Code No.	Description	Temperature Range	For Use With	List Price (ea)
082F8994	Replacement Kit	110° - 140°F (43° - 50°C)	1/2" and 3/4"	\$157.92
082F8995		68° - 105°F (20° - 40°C)		\$157.92
082F8996		85° - 120°F (29° - 49°C)		\$157.92
082F8997		110° - 140°F (43° - 50°C)	1"	\$157.92
082F8998		68° - 105°F (20° - 40°C)		\$157.92
082F8999		85° - 120°F (29° - 49°C)		\$157.92

SPARE PARTS AND ACCESSORIES

ESBE VTA SERIES LEAD FREE THERMOSTATIC MIXING VALVE SPARE PARTS

Repair Kit Includes: Cap, Adjustment Bonnet, Thermostat, Shuttle, and Spring Spare Parts.

Code No.	Description	Temperature Range	List Price (ea)
065B8842	Repair Kit for All Except 1" NPT	70° - 110°F (21° - 43°C)	\$109.82
065B8843		85° - 120°F (30° - 49°C)	\$109.82
065B8844		95° - 140°F (35° - 60°C)	\$109.82
37101600	Repair Kit for 1" NPT	85° - 120°F (30° - 49°C)	\$166.05
37101400		95° - 140°F (35° - 60°C)	\$166.05

ESBE SERIES 30 MR THERMOSTATIC MIXING VALVE SPARE PARTS

Code No.	Description	Temperature Range	List Price (ea)
065B8842	Repair Kit for 1/2" and 3/4" valves	70° - 110°F	\$109.82
065B8843		85° - 120°F	\$109.82
065B8844		95° - 140°F	\$109.82

BALANCING VALVES SPARE PARTS AND ACCESSORIES

Code No.	Description	Valve	List Price (ea)
90006940	STVA Replacement Handle	2-1/2" - 6"	\$215.73

ESBE TV AND VTC BOILER RETURN TEMP. PROTECTION & SOLAR CONTROLS SPARE PARTS

Code No.	Description	List Price (ea)
065B8927	TV Thermostat 60°C (140°F)	\$155.14
065B8926	TV Thermostat 72°C (160°F)	\$141.29
065B8930	TV Thermostat 45°C (113°F)	\$210.56
98060150	O-ring for VTC thermostat Cover Plug	\$9.69

SPARE PARTS AND ACCESSORIES

ESBE ATA AND C20 SPARE PARTS

Code No.	Description	Temperature Range	List Price (ea)
3720 25 00	Replacement thermostat for ATA212 draft regulators	95° - 203°F (35° - 95°C)	\$59.57
Replacement parts for ATA100 draft regulators and C20 draft regulators			
3720 10 00	Replacement thermostat	104° - 203°F (40° - 95°C)	\$59.57

AVDO HANDLE

Code No.	Description	List Price (ea)
003L5401	AVDO Replacement Handle	\$18.01

AVTB SPARE PARTS

Service Element

Code No.	Description	Temperature Range	Capillary Tube Length	List Price (ea)
003N007508	Service Element with Capillary Tube and Sensor - Sensor diameter 0.7" x 8.3" (18 x 210 mm)	32° - 86°F (0° - 30°C)	6' 6" (2 m)	\$336.03
003N007808		77° - 149°F (25° - 65°C)		\$336.03
003N006208		122° - 194°F (50° - 90°C)		\$336.03

Accessories

Code No.	Description		List Price (ea)
AVTBWELL	Sensor Pocket, max. pressure 341 psi, L = 8.7" (25 bar / 220 mm)	3/4" NPT, Brass for 0.7" sensor	\$170.39
003N005308		3/4" NPT, S/S for 0.7" sensor	\$354.34
003N005608	Capillary Tube Gland	3/4" All Sensors	\$71.91
003N0388	Mounting Bracket	All AVT Valves	\$6.08
003N4006	Valve Repair Kit O-ring (2-off) Diagram (2-off) Valve Cone (1-off) Screws (8-off)	1/2" AVT	\$86.31
003N4007		3/4" AVT	\$86.31
003N4008		1" AVT	\$86.31
003N610008	Brass AVT Body and Top Section, less element	1/2" AVT	\$308.57
003N710008		3/4" AVT	\$366.10
003N810008		1" AVT	\$398.79
003N052008	AVT Handle	All	\$30.07

NUMERICAL CODE NUMBER LISTING

Code No.	Page	Approx. Weight (lbs.)	List Price (ea)
003L0213	17	0.04	\$128.83
003L1000	8	2.07	\$254.48
003L1001	9	2.00	\$254.48
003L1040	8	0.34	\$95.57
003L1070	8	0.34	\$95.57
003L3530	4	0.89	\$336.03
003L3531	4	0.89	\$336.03
003L5401	21	0.05	\$18.01
003L602001	11	1.74	\$317.23
003L602002	11	1.84	\$317.23
003L602501	11	2.14	\$350.46
003L602502	11	2.24	\$350.46
003L603002	11	6.56	\$440.49
003N005308	10, 21	0.45	\$354.34
003N005608	21	0.24	\$71.91
003N006208	21	0.96	\$336.03
003N007508	21	1.01	\$336.03
003N007808	21	0.95	\$336.03
003N0388	21	0.08	\$6.08
003N052008	21	0.06	\$30.07
003N4006	21	0.05	\$86.31
003N4007	21	0.08	\$86.31
003N4008	21	0.10	\$86.31
003N6032	10	3.76	\$673.36
003N6032RA	10	3.76	\$673.36
003N610008	21	2.67	\$308.57
003N6252	10	3.71	\$673.36
003N6252RA	10	3.71	\$673.36
003N6272	10	3.72	\$673.36
003N6272RA	10	3.72	\$673.36
003N7032	10	3.83	\$729.58
003N7032RA	10	3.83	\$729.58
003N710008	21	2.82	\$366.10
003N7252	10	3.78	\$729.58
003N7252RA	10	3.78	\$729.58
003N7272	10	3.80	\$729.58
003N7272RA	10	3.80	\$729.58
003N8032	10	4.11	\$767.50
003N8032RA	10	4.11	\$767.50
003N810008	21	3.12	\$398.79
003N8252	10	4.08	\$767.50
003N8252RA	10	4.08	\$767.50
003N8272	10	4.11	\$767.50
003N8272RA	10	4.11	\$767.50
013-7045	16	0.11	\$9.69
013G0140	6	0.53	\$135.75
013G0290	16	0.01	\$29.09
013G0554	16	0.01	\$19.61
013G1232	16	0.01	\$1.38
013G1236	16	0.11	\$41.56
013G1237	16	0.04	\$34.63
013G1246	16	0.02	\$13.85
013G1350	4, 16	0.16	\$37.40
013G1672	16	0.01	\$2.78
013G2922	4	0.50	\$142.68
013G3094	7	0.49	\$81.07

Code No.	Page	Approx. Weight (lbs.)	List Price (ea)
013G3096	7	0.98	\$183.05
013G3215	6	1.25	\$105.28
013G3268	6	1.12	\$131.59
013G3270	6	1.19	\$145.46
013G4116	6	0.05	\$9.69
013G5002	4	0.09	\$18.01
013G5022	4	1.71	\$109.43
013G5080	4	0.71	\$177.87
013G5081	4	0.75	\$177.87
013G5120	4	2.5	\$77.56
013G5245	16	0.01	\$36.02
013G5462	8	1.34	\$724.35
013G5463	8	1.14	\$661.61
013G5464	8	1.21	\$596.22
013G5465	8	0.89	\$525.62
013G5466	8	1.01	\$596.22
013G5467	8	0.73	\$525.62
013G5503	16	0.01	\$2.78
013G7216	16	0.70	\$12.46
013G8013	6	0.91	\$69.26
013G8014	6	0.65	\$69.26
013G8015	6	0.67	\$69.26
013G8018	6	1.05	\$78.96
013G8019	6	0.93	\$78.96
013G8020	6	0.97	\$78.96
013G8023	6	1.56	\$112.20
013G8024	6	1.39	\$112.20
013G8025	6	1.55	\$112.20
013G8030	6	2.17	\$192.56
013G8031	6	2.00	\$192.56
013G8032	6	2.22	\$192.56
013G8037	17	0.10	\$36.02
013G8038	17	0.15	\$37.40
013G8039	17	0.15	\$38.79
013G8042	6	0.79	\$99.73
013G8044	6	1.11	\$106.67
013G8070	16	0.35	\$96.95
013G8072	16	0.35	\$96.95
013G8074	6	1.23	\$113.59
013G8132	16	0.18	\$18.01
013G8139	7, 16	0.09	\$29.09
013G8240	4	0.37	\$99.73
013G8250	4, 9	0.36	\$77.56
013G8252	4	0.50	\$109.43
013G8562	4	0.58	\$155.14
013G8564	4	1.01	\$235.48
013G8565	4	0.69	\$177.31
013G8568	4	0.71	\$225.79
013G8591	16	0.05	\$30.47
013G8593	16	0.09	\$23.54
013L8011	6, 16	0.13	\$54.03
013L8300	16	0.04	\$16.62
013U0070	16	0.03	\$41.55
013U0476	6, 7, 8, 9, 16	0.12	\$27.71
013U0479	7, 16	0.20	\$29.09
013U0489	16	0.29	\$30.47

Code No.	Page	Approx. Weight (lbs.)	List Price (ea)
013U0496	6, 7, 8, 9, 16	0.07	\$9.69
013U0499	7, 16	0.12	\$12.46
013U0504	16	0.47	\$45.70
013U0507	16	0.34	\$42.96
013U301501	7	1.62	\$343.88
013U3017	7	1.41	\$219.67
013U302001	7	1.59	\$343.88
013U7175	16	0.28	\$13.85
013U8063	4	0.89	\$336.03
013U8608	6, 7, 8, 9, 16	0.06	\$27.71
013X3180	16	1.06	\$216.09
013X3182	16	1.14	\$243.81
017-437066	4	0.23	\$85.14
065B0003	18	0.20	\$71.91
065B0004	18	0.06	\$71.91
065B6150	12	23.10	\$1,205.52
065B6165	12	26.25	\$1,344.11
065B6180	12	36.30	\$1,485.32
065B6200	12	50.16	\$2,303.82
065B6225	12	70.51	\$2,482.95
065B6250	12	98.69	\$6,648.65
065B8842	20	0.29	\$109.82
065B8843	20	0.33	\$109.82
065B8844	20	0.31	\$109.82
065B8868LF	15	1.19	\$245.81
065B8869LF	15	1.25	\$189.59
065B8870LF	15	1.19	\$189.59
065B8871LF	15	1.19	\$189.59
065B8872LF	15	1.19	\$189.59
065B8877LF	15	1.16	\$189.59
065B8878LF	15	1.23	\$189.59
065B8892	15	0.66	\$66.69
065B8898	15	0.44	\$40.54
065B8900	14	1.01	\$149.60
065B8901	15	0.44	\$85.88
065B8926	20	0.18	\$141.29
065B8927	20	0.18	\$155.14
065B8929	18	0.02	\$29.09
065B8930	20	0.18	\$210.56
065B8956	17	0.75	\$162.07
065B8957	17	0.70	\$196.71
065B8960	11	29.66	\$1,112.33
065B8961	11	30.40	\$1,112.33
065B8962	11	38.50	\$1,392.14
065B8963	11	62.37	\$2,149.86
065B8964	11	75.06	\$2,328.55
065B8965	11	97.02	\$3,181.
065F0102	7	0.80	\$125.52
065F0104	7	1.21	\$149.05
065F1242	7	2.17	\$249.73
065F8950	12	3.34	\$45.70
065F8951	12	0.09	\$12.46
065F8952	13	2.05	\$649.67
065F8953	13	1.91	\$649.67
065F8954	13	1.91	\$649.67
065F8955	13	2.33	\$1,315.97

Code No.	Page	Approx. Weight (lbs.)	List Price (ea)
065F8959	13	2.29	\$649.67
065F8960	7	1.06	\$150.36
065F8961	7	1.28	\$175.21
065F8965	10	1.23	\$132.05
065F896501	10	1.17	\$132.05
065F8966	10	1.28	\$149.05
065F896601	10	1.32	\$149.05
065F8967	10	1.89	\$180.43
065F896701	10	1.91	\$180.43
065F8968	10	2.51	\$277.19
065F896801	10	2.64	\$277.19
065F8969	10	3.17	\$333.41
065F896901	10	3.30	\$333.41
065F8970	10	5.46	\$477.25
065F897001	10	5.06	\$477.25
065F8971	11	31.55	\$1,121.84
065F8972	11	44.00	\$1,695.83
065F8973	11	64.77	\$2,380.95
065F8974	11	88.00	\$3,443.97
065F8975	11	110.00	\$4,496.50
082F0002	5	0.66	\$296.80
082F0052	5	0.67	\$296.80
082F1110	5	0.39	\$107.43
082F1111	5	0.39	\$242.53
082F8961	12	4.18	\$54.03
082F8962	12	6.56	\$90.04
082F8963	12	7.30	\$102.50
082F8964	12	9.55	\$139.91
082F8965	12	10.19	\$160.69
082F8966	12	0.02	\$26.31
082F8967	12	0.02	\$30.47
082F8968	12	0.04	\$38.79
082F8969	12	0.04	\$44.32
082F8970	12	0.04	\$58.18
082F8975	17	0.57	\$155.14
082F8976	17	0.04	\$40.18
082F8977	17	0.51	\$185.62
082F8979	18	1.36	\$196.71
082F8980	18	2.45	\$277.05
082F8981	18	4.18	\$534.69
082F8982	18	7.30	\$766.02
082F8983	18	8.27	\$1,205.14
082F8984	18	9.02	\$1,386.60
082F8985	18	10.54	\$1,856.18
082F8986	18	1.45	\$254.88
082F8987	18	3.34	\$347.69
082F8988	18	5.30	\$543.00
082F8989	18	8.18	\$789.57
082F8990	18	11.18	\$1,083.23
082F8991	18	14.94	\$2,137.39
082F8994	19	0.33	\$157.92
082F8995	19	0.33	\$157.92
082F8996	19	0.33	\$157.92
082F8997	19	0.35	\$157.92
082F8998	19	0.33	\$157.92
082F8999	19	0.33	\$157.92

Code No.	Page	Approx. Weight (lbs.)	List Price (ea)
087N1196	9	0.30	\$71.28
088H3110	5	0.32	\$102.12
088H3111	5	0.32	\$102.12
088H3114	5	0.32	\$106.37
088H3120	5	0.33	\$134.02
088H3121	5	0.33	\$134.02
088L3041	9	1.89	\$1,031.89
088L3042	9	0.53	\$1,047.52
12201100	14	n/a	\$918.40
12220200	14	n/a	\$1,396.30
12241200	14	n/a	\$1,205.14
12260200	14	n/a	\$1,381.06
12720212	13	2.73	\$984.89
12742212	13	1.9	\$1,315.97
16000500	19	0.13	\$34.63
16200700	19	1.03	\$96.95
17006900	17	0.66	\$60.95
17006910	17	0.66	\$60.95
17006920	17	0.88	\$60.95
17006940	17	1.32	\$26.31
17006950	17	1.10	\$60.95
17050600	19	0.04	\$20.79
17053100	19	0.74	\$81.72
17053500	19	0.74	\$41.56
193B1500	11	1.10	\$221.64
193B1501	11	1.65	\$221.64
193B1502	11	1.65	\$221.64
193B1503	11	1.72	\$239.63
193B1504	11	1.63	\$239.63
193B1505	11	2.49	\$260.42
193B1506	11	3.83	\$307.52
193B1507	11	5.37	\$487.59
193B1531	12	1.65	\$245.19
193B1532	12	1.65	\$245.19
193B1533	12	1.76	\$290.88
193B1534	12	2.62	\$321.37
193B1535	12	4.44	\$448.81
193B1536	12	5.59	\$576.26
193B1537	12	0.97	\$349.08
193B1538	12	1.28	\$375.40
193B1539	12	1.94	\$423.87
193B1600	13	1.01	\$385.09
193B1601	13	1.36	\$446.04
193B1602	13	1.36	\$446.04
193B1603	13	1.36	\$446.04
193B1604	13	1.36	\$501.45
193B1605	13	1.36	\$501.45
193B1606	13	1.36	\$922.55
193B1607	13	1.36	\$922.55
193B1615	18, 19	0.75	\$83.11
193B1616	13, 18, 19	0.48	\$80.34
193B1701	14	2.46	\$319.98
193B1702	14	0.09	\$69.26
193B1703	14	0.09	\$69.26
193B1704	14	0.09	\$69.26
193B1705	14	0.09	\$69.26

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