










PRODUCT OVERVIEW




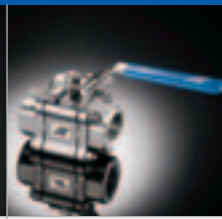
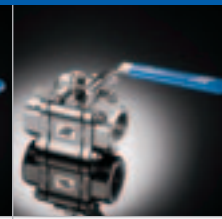





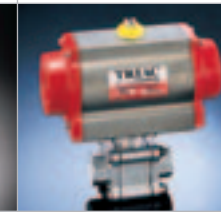




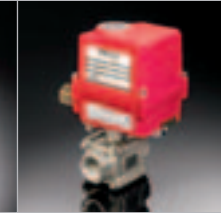
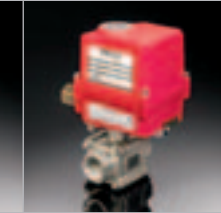
A-T Controls, Inc.

Valves, Valve Automation and Accessories


















	ONE PIECE		2-PIECE		
					
SERIES	SERIES 10	SERIES 20	SERIES 21C	SERIES 22	SERIES 24
General Description & Features	1-piece unibody design, end-loaded ball	2-piece general purpose full port, locking handle	2-piece general purpose carbon steel reduced port, locking handle	2-piece high performance direct mount	2-piece high performance 3000 psi
Automated Pneumatic	Not available	Not available	Not available		
Automated Electric	Not available	Not available	Not available		
Sizes	1/4" -2"	1/4" -3"	1/4" -2"	1/4" -3"	1/4" -2"
Port	Reduced	Full	Reduced	Full	1/4"-1-1/2" Full 2" Regular
Direct Mount	No	No	No	Yes	Yes
Pyramidal Stem Packing	No	No	No	Yes	Yes
Body Materials	316SS	316SS	WCB	316SS	316SS
Trim Material	316SS	316SS	316SS	316SS	316SS
Available Seats	RTFE	RTFE	RTFE	RTFE, call for others	Delrin, PEEK
End Connections	Threaded	Threaded	Threaded	Threaded	Threaded
Max Pressure Rating	2000 psi	1000 psi	1000 psi	1000 psi	3000 psi
Options	None	Vented Ball	Vented Ball	Call factory	Vented Ball Others, call factory




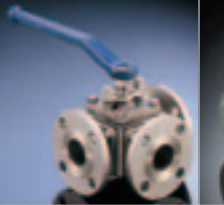
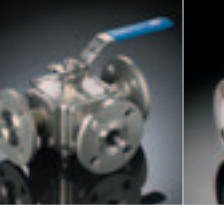













3-PIECE

				
SERIES 55	SERIES 8R	SERIES F8R	SERIES 88	SERIES F88
3-piece standard service exposed bolt "swing-out" design, locking handle	3-piece high performance, locking handle	Firesafe 3-piece high performance, locking handle	3-piece high performance, direct mount, locking handle	Firesafe 3-piece high performance, direct mount, locking handle
				
				
1/4" -4"	1/4" -2-1/2"	1/4" -2-1/2"	1/4"-4"	1/4"-4"
Full	Full or Regular	Full or Regular	Full	Full
No	No	No	Yes	Yes
No	Yes	Yes	Yes	Yes
316SS & WCB	316SS & WCB	316SS & WCB	316SS, WCB & Alloy 20	316SS & WCB
316SS	316SS	316SS	316SS	316SS
RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others
Threaded, Socket Weld, Butt Weld	Threaded, Socket Weld, Butt Weld	Threaded, Socket Weld, Butt Weld	Threaded, Socket Weld, Butt Weld	Threaded, Socket Weld, Butt Weld
1000 psi	2000/1500 psi	2000/1500 psi	2000/1500 psi	2000/1500 psi
Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others

BALL VALVES







	3-PIECE	150# FLANGED			
					
SERIES	SERIES 77	SERIES 90 & 93	SERIES F90	SERIES F91	SERIES D9
General Description & Features	Cavity and non-cavity filled 3 piece, sanitary clamp or tube OD ends	150# flanged 2-piece, full port, with pyramidal stem packing	Firesafe 150# flanged 2-piece, full port, with pyramidal stem packing	Firesafe Unibody design 150# flanged regular port Direct mount	Direct mount 150# flanged 2-piece. Full port with pyramidal stem packing
Automated Pneumatic					
Automated Electric					
Sizes	1/2"-4"	1/2"-12"	1/2"-4"	1/2"-6"	1/2"- 8"
Port	Full	Full	Full	Regular	Full
Direct Mount	Yes	No	No	Yes	Yes
Pyramidal Stem Packing	Yes	Yes	Yes	Yes	Yes
Body Materials	316L	316SS, WCB & Alloy 20	316SS & WCB	316SS & WCB	316SS & WCB
Trim Material	316L	316SS	316SS	316SS	316SS
Available Seats	PTFE, cavity filled, non-cavity filled, RTFE	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK and others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK & others
End Connections	Sanitary clamp, tube OD	150# Flanged	150# Flanged	150# Flanged	150# Flanged
Max Pressure Rating	1000 psi	285 psi	285 psi	285 psi	285 psi
Options	Vented Ball, Oxygen Cleaned	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented Ball, Oxygen Cleaned, Gear Operator, Stem Extension and others	Vented ball, oxygen cleaned, gear operator, stem extension and others

150# & 300# FLANGED	600# FLANGED	MULTI-PORT		HIGH PERFORMANCE MULTI-PORT	PFA LINED
					
SERIES FD9	SERIES FD9/F6	SERIES 38	SERIES 30	SERIES 33,43,53	LB SERIES
Firesafe direct mount 150# and 300# flanged 2-piece. Full port with pyramidal stem packing	2-piece split body 600# flanged full port	Threaded general purpose 3-way	Flanged general purpose 3-way	High performance, 3, 4 or 5-way, TH, SW, BW, flanged, sanitary, direct mount	2-piece 150# flanged Fully PFA lined and seamless PFA ball Options, call factory
					
					
1/2"– 8"	1/2"– 2"	1/4"– 2"	1-1/2"– 12"	1/4"– 4"	1/2"– 4"
Full	Full	Reduced	Full	Full	Full
Yes	Yes	No	No	Yes	No
Yes	Yes	No	No	Yes	No – Live loaded
316SS & WCB	316SS & WCB	316SS	316SS & WCB	316SS & WCB*	Epoxy coated WCB & 304SS
316SS	316SS	316SS	316SS	316SS	Fully lined PFA
RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK & others	RTFE, PTFE, 50/50, 15% CTFE, UHMWPE, Delrin, PEEK & others	RTFE	RTFE, PTFE, 50/50, 15% CTFE, others on request	RTFE, PTFE, 50/50, cavity fillers, others on request	N/A
150# and 300# Flanged	600# Flanged	Threaded	Flanged	TH, SW, BW, sanitary, flanged	150# flanged 230 psi
740 psi	1480 psi	1000 psi	285 psi	See spec. sheets	Call factory
Vented ball, oxygen cleaned, gear operator, stem extension and others	Vented ball, gear operator, stem extension and others	"L" or "T" port	"L" or "T" port	3, 4, 5-way, "L", "T", "LL", "I", "X", "TT" ports, various options	

Additional options and specials available on request

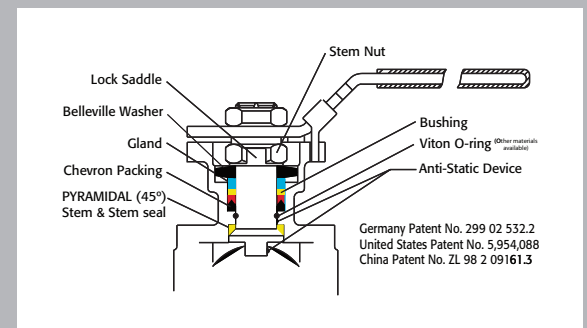
BALL VALVES

BALL VALVES

	TANK BOTTOM	V-PORT CONTROL VALVES	SPRING RETURN HANDLE	FM APPROVED ASSEMBLIES
SERIES	TB SERIES	V SERIES	SRH	FM
General Description & Features	3-piece tank bottom valve	"V" port control valves	Fail-safe handle for manual valve operation	FM Approved Assemblies for gas safety shutoff applications
Automated Pneumatic			Not applicable	See brochure for details
Automated Electric			Not applicable	
Sizes	1-1/2", 2", 3", 4"	1/2" – 6"	1/4" – 2"	
Port	Full	30°, 60°, others on request	Not applicable	
Direct Mount	No	Some		
Pyramidal Stem Packing	No	Yes		
Body Materials	316SS	316SS & WCB		
Trim Material	316SS	316SS		
Available Seats	RTFE, PTFE, 50/50, 15% CTFE, others on request	RTFE, PTFE, 50/50, call with application		
End Connections	Tank weld pad + TH, SW, BW, Flanged	TH, SW, BW, flanged		
Max Pressure Rating	1000 psi	See spec. sheets		
Options	Vented Ball, Oxygen Cleaned, Gear Operator, others	Various, please call with requirements		





Featuring the Pyramidal Stem Packing System

The best performing stem packing system on the market






AUTOMATION

General Description & Features

	PNEUMATIC RACK & PINION ACTUATORS	ELECTRIC ACTUATORS		LIMIT SWITCHES
				
SERIES	2R SERIES	WE/XE SERIES	E SERIES	TS, APL, EX and others (APL pictured)
General Description & Features	Thirteen sizes of pneumatic actuators	Eleven sizes of electric actuators On-off & modulating	Thirteen sizes of electric actuators On-off & modulating	Various limit switch boxes
Models	2R-ISO-5211 2K & 2CI - Butterfly direct mount	WE-500 – WE-25900 XE-690 – XE-25900	ETI-300 – ETI-30000	TS Series, APL Series, Ex Series and others
Variations	Various mounting dimensions	NEMA 4, 4X Explosion-proof On-off & modulating	NEMA 4, 4X	Materials, switch types
Types	Eleven sizes rack & pinion, two sizes scotch yoke	NEMA 4, 4X Explosion-proof On-off & modulating	NEMA 4, 4X On-off & modulating	SPDT, proximity, low voltage, high amp. ASI & others
Materials	Hard anodized aluminum body	Die cast aluminum Epoxy coated enclosure	Die cast aluminum Epoxy coated enclosure	Aluminum or plastic
Features	Dual travel stops	AWWA-C504-93 Manual override Four switches standard Heater & stat standard Self-locking gear train	Manual overrides Four switches standard Heater & stat standard Self-locking gear train	Position indicators
Options	High temp seals, various accessories	Vibration and shock resistant Fireproof coated enclosure Intelligent and integral control unit	Manual on-off-auto station	Several types of communication options

General Description & Features

	SOLENOIDS	POSITIONERS	CONTROL OPTIONS	OTHER ACCESSORIES
<i>SERIES</i>	 TVCS, TVC5, TVC6 and others	 PPR, EPR, ED and EPS		
<i>General Description & Features</i>	NAMUR mount, solenoids or pipe mounted	Pneumatic, electro-pneumatic, digital or "smart"	Speed controls, flow controls, lock-up valves	Filter regulators, dribble controls, others
<i>Models</i>	TVCS, TVC5 and others	PPR1200, EPR1000, ED1000 and EPS	Various	Various
<i>Variations</i>	Weatherproof, ex-proof, 3, 4 or 5-way	Pneumatic, electro-pneumatic, digital or "smart"	Most any!	Most any!
<i>Types</i>	2-position, 3-position, single or dual coil	Rotary or linear	Most any!	Most any!
<i>Materials</i>	Aluminum or SS	Aluminum body	Most any!	Most any!
<i>Features</i>	Direct-mount	Easy to calibrate, repeatable	Most any!	Most any!
<i>Options</i>	Various voltages & configurations	Transmitters, mounting hardware, call with requirements	Most any!	Most any!

HEAVY DUTY ACTUATORS	180°PNEUMATIC ACTUATORS	STAINLESS STEEL PNEUMATIC ACTUATORS	DECLUTCHABLE GEAR OVERRIDES	GEAR OPERATORS
				
THD	180-AL SERIES	SS SERIES	DGO and KGO	XJ and XGJ Series
Pneumatic and hydraulic scotch yoke design	180° rack & pinion pneumatic actuators	Stainless steel Rack & Pinion design	"Sandwich" mount, gear overrides	Manual gear operators for quarter-turn valves
THD torques to 600,000 in. lbs.	Five models 740 –1240 in. lbs.	Double Acting and Spring Return	Six models	Eight standard sizes
Double Acting, Spring Return	180° Dribble and batch control	Double Acting, Spring Return	ISO-5211 pattern stock, others on request	ISO-5211 mounting in inventory, others on request
Pneumatic and hydraulic	Pneumatic	Pneumatic	Declutchable	Quarter-turn
Cast steel center body	Hard anodized aluminum	316SS	Cast iron	Cast iron
Torque stabilizer bar, travel stops, female drive	Sturdy rack & pinion design	Corrosion resistant	Easy declutch mechanism, low profile	Travel stops
Manual overrides, various controls, high temp., others	Dribble control 3-position control	Various control accessories	Dump valves	Top-mounted limit switches, others

AUTOMATION



A-T Controls, Inc.

Manual Ball Valve Part Number Matrix

1 Firesafe Designation

F Firesafe Tested

2 Valve Series

10 1 pc. Reduced Port 2000#
 20 2 pc. Full Port 2000#
 21 2 pc. Reduced Port 1000#
 22 2 pc. Direct Mount Full Port
 24 2 pc. Direct Mount 3000 psi
 30 3-Way Flanged Full Port
 33 3, 4, 5-Way Full Port, Multiport
 38 3-Way Threaded Reduced Port
 55 3 pc. 1000# Full Port
 77 3 pc. 1000# Full Port Sanitary
 83 3 pc. 2000/1500# Full Port
 8R 3 pc. 2000/1500# Regular Port
 88 3 pc. Direct Mount 2000/1500# Full Port
 90 2 pc. Flanged Full Port (Investment Cast)
 91 1 pc. Flanged Regular Port (Firesafe)
 93 2 pc. Flanged Full Port (Sand Cast)
 V8 3 pc. V Port
 V9 Flanged V Port
 D9 Direct Mount Flanged
 T5 Tank Bottom 3 pc.
 LB PFA Lined Full Port

3 Body Material

- No Designation= Stainless Steel Body and Trim
 A Alloy 20
 C Carbon Steel Body and Trim
 E Electropolished SS
 Z Epoxy Coated Carbon Steel

4 End Connection

TH Threaded Ends
 SW Socket Weld Ends
 BW Butt Weld Ends
 CO Compression Ends
 EW Extended Butt Weld Ends
 F1 150# Flanged Ends
 F3 300# Flanged Ends
 F6 600# Flanged Ends
 SA Sanitary Ends
 SD Sanitary x Tube OD
 SF Sanitary w/Cavity Filler
 DF Tube O.D. w/Cavity Filler
 DA Tube O.D. Ends
 TS Threaded x Socket Weld

5 Valve Size

0025 1/4"
 0038 3/8"
 0050 1/2"
 0075 3/4"
 0100 1"
 0125 1-1/4"
 0150 1-1/2"
 0200 2"
 0250 2-1/2"
 0300 3"
 0400 4"
 0600 6"
 0800 8"
 1000 10"
 1200 12"

6 Seat Material

X Reinforced TFE Seats
 P Virgin TFE Seats
 U UHMWE Seats
 D Delrin
 S 50% SS Powder/50% TFE Seats
 C 15% CS Powder/85% TFE Seats
 T TFM-1600
 Z PEEK
 M MG1241
 2 Tungsten Carbide Coated
 4 316SS Seats and Ball

7 Special Designations

X No Specials
 G Gear Operator
 R Reduced Port Valve
 O Oval Handle (available on some series)

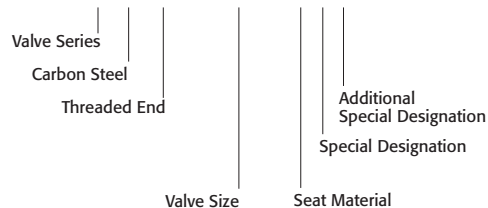
8 Additional Specials

X No Specials
 O Oxygen Cleaned
 Z Special End Configuration

HOW TO ORDER MANUAL VALVES

SAMPLE PART #

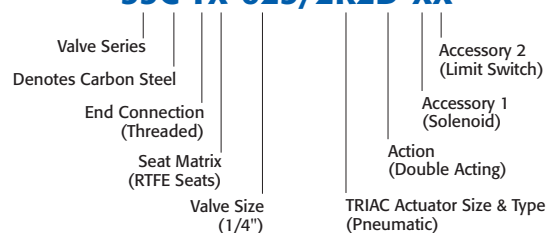
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HOW TO ORDER AUTOMATED VALVES

SAMPLE PART #

55C-TX-025/2R2D-XX



Automated Ball Valve Part Number Matrix

1 Firesafe Designation

F Firesafe Tested

2 Valve Series

10 1 pc. Reduced Port 2000#
20 2 pc. Full Port 2000#
21 2 pc. Reduced Port 1000#
22 2 pc. Direct Mount Full Port
24 2 pc. Direct Mount 3000 psi
30 3-Way Flanged Full Port
33 3, 4, 5-Way Full Port, Multiport
38 3-Way Threaded Reduced Port
55 3 pc. 1000# Full Port
77 3 pc. 1000# Full Port Sanitary
83 3 pc. 2000/1500# Full Port
8R 3 pc. 2000/1500# Regular Port
88 3 pc. Direct Mount 2000/1500# Full Port
90 2 pc. Flanged Full Port (Investment Cast)
91 1 pc. Flanged Regular Port (Firesafe)
93 2 pc. Flanged Full Port (Sand Cast)
V8 3 pc. V Port
V9 Flanged V Port
D9 Direct Mount Flanged
LB PFA Lined Full Port

3 Body Material

– No Designation=Stainless Steel Body and Trim
C Carbon Steel Body and Trim
L Low Carbon Steel/SS Trim
H Carbon Body/Hastelloy Ball & Stern
Q Carbon Steel Body/Monel Ball & Stern
R 316 SST Body/Monel Ball & Stern
A Alloy 20
E Electropolished SS
Z Epoxy Coated Carbon Steel

4 End Connection

T Threaded Ends
S Socket Weld Ends
B Butt Weld Ends
E Extended Butt Weld Ends
F 150# Flanged Ends
3 300# Flanged Ends
C Sanitary Ends
D Tube O.D. Ends
M Threaded x Socket Weld
**Sanitary refers to clamp style ends*
Q Tube Socket Weld

5 Seat Material

1 Valve Series Standard
X RTFE Reinforced TFE Seats
P PTFE Virgin TFE Seats
U UHMWPE Seats
S 50% SS Filled TFE Seats
C 15% CS Filled TFE Seats
Z PEEK
F TFE Cavity Filler
D Delrin
T TFM-1600
M MG1241
2 Tungsten Carbide Coated
 316SS Seats & Ball
4 Chrome Carbide Coated
 316SS Seats & Ball

6 Valve Size

25	1/4"	250	2-1/2"
38	3/8"	300	3"
50	1/2"	400	4"
75	3/4"	600	6"
100	1"	800	8"
125	1-1/4"	AAA	10"
150	1-1/2"	BBB	12"
200	2"		

7 Actuator – Pneumatic (DA)

TR1D TR10 Double Acting
TR2D TR20 Double Acting
2R2D 2R40 Double Acting
2R3D 2R80 Double Acting
2R4D 2R130 Double Acting
2R5D 2R200 Double Acting
2R6D 2R300 Double Acting
2R7D 2R500 Double Acting
2R8D 2R850 Double Acting
2R9D 2R1200 Double Acting
2R0D 2R1750 Double Acting
2RAD 2R2500 Double Acting
2RBD 2R3500 Double Acting

Actuator – Pneumatic (SR)

TR1S TR20 Spring Return
2R2S 2R40 Spring Return
2R3S 2R80 Spring Return
2R4S 2R130 Spring Return
2R5S 2R200 Spring Return
2R6S 2R300 Spring Return
2R7S 2R500 Spring Return
2R8S 2R850 Spring Return
2R9S 2R1200 Spring Return
2R0S 2R1750 Spring Return
2RAS 2R2500 Spring Return
2RBS 2R3500 Spring Return

7 (cont.) Actuator – Electric (On-Off)

TEB1	ETI-300	TEH1	ETI-4300
TEC1	ETI-400	TEJ1	ETI-8600
TED1	ETI-700	TEK1	ETI-13000
TEE1	ETI-1300	TEL1	ETI-17000
TEF1	ETI-2600	TEM1	ETI-21000
TEG1	ETI-3500	TEN1	ETI-26000
TEH1	ETI-4300	TEBO	ETI-30000

Actuator – Electric (Modulating)

TEB2	EMI-300	TEJ2	EMI-8600
TEC2	EMI-400	TEK2	EMI-13000
TED2	EMI-700	TEL2	EMI-17000
TEE2	EMI-1300	TEM2	EMI-21000
TEF2	EMI-2600	TEN2	EMI-26000
TEG2	EMI-3500	TEO2	EMI-30000
TEH2	EMI-4300		

Actuator - Pneumatic Stainless (DA)

SS1D SS45DA Double Acting
SS2D SS60DA Double Acting
SS3D SS85DA Double Acting
SS4D SS105DA Double Acting
SS5D SS125DA Double Acting
SS6D SS140DA Double Acting
SS7D SS160DA Double Acting

Actuator - Pneumatic Stainless (SR)

SS1S SS45SR Spring Return
SS2S SS60SR Spring Return
SS3S SS85SR Spring Return
SS4S SS105SR Spring Return
SS5S SS125SR Spring Return
SS6S SS140SR Spring Return
SS7S SS160SR Spring Return

8 Accessories/Options

X No Specials
A NEMA 4 Solenoid
B NEMA 7 Solenoid
P Pneumatic Positioner
E Electro-Pneumatic Positioner
R 24VDC Electric Actuator
S 220VAC Electric Actuator
T Other Voltage Electric Actuator
W 12VDC Elec. (specified)
**No voltage specified on electric assemblies denotes 120VAC*
Q Nema 4 SS Solenoid
M Nema 7 SS Limit Switch
Y 24 VAC Actuator

9 Accessories

X No Specials
A NEMA 4 Limit Switch
B NEMA 7 Limit Switch
Z 180 degree Operation
Q Nema 4 SS Limit Switch

Additional Ball Valve Options and Variations

Spring Loaded Locking Handle

Adding a spring loaded component to this handle allows for secure positioning of the valve even in vertical orientations

Oval Handle

The oval shaped handle allows for operation without the chance of dislodging a standard design handle that clothing or other equipment may catch in passing by a valve.

Spring Return Fail-Safe Handle

This handle is designed for use in critical services where the open or closed position must be maintained by manual positioning. Manual release of the handle will result in spring-to-close or spring-to-open as the application requires.

Ball Valve Seat Materials

We offer a variety of seat materials to cover numerous flow and service applications. Below is a brief description of the seat materials. Some are stock and others are available upon special request.

RTFE

Reinforced teflon - to 450F.

Glass fiber reinforced PTFE is our standard seat material. Has chemical resistance of PTFE with the improved wear and abrasion resistance. Versatile temperature characteristics.

15% CF

15% Carbon Steel Powder/85% PTFE - to 480F.

15% carbon/graphite powder and 85%PTFE. Good for low pressure steam applications and abrasive and slurry services.

TFM-1600

To 500F.

Second generation TFE. Offers better creep resistance. Lower coefficient of friction provides lower torque values and resists deformation. Ideal for applications requiring higher purity such as semi-conductor. Resists "popcorning" in monomer service.

Side Vented Ball Option

Vents pressure to the upstream side. Equalizes pressure in the valve caused by thermal expansion of liquid. Maintains seat seal and prevents blowout of the seats. (Stem slot is vented as standard.)

"V" Port Control Ball

"V" ported balls give better flow control properties to a traditionally round ported ball valve. They are available with a 30 or 60 "V" port. The 30 port allows for finer control at lower flows. The 60 port allows for higher Cv at full open position.

PTFE

"Virgin" teflon - to 400F.

Good chemical resistance and lower torque values. Used for many general applications. Good for low cycle life applications

UHMWPE

Ultra high molecular weight polyethylene - to 180F.

UHMWPE has good abrasion resistance, good for abrasive and slurry services. Torques are significantly higher than RTFE. Good for tobacco and nuclear services.

50/50

50% SS Powder/50% PTFE - to 600F.

50% stainless steel powder and 50% PTFE give this seat material good sealing and temperature resistant properties. Good for steam and abrasive applications. Better cold flow properties than RTFE.

PEEK

Polyetherketone to 550F.

Good chemical resistance with higher temperature tolerance.

Triac WE / XE Series Part Number Reference

ATEX Pending

Model	
WE	Weather Proof
XE	Explosion Proof Design (Eexd II B T4, Eexd II C T4)
FE	Fire Proof Unit (1050°F for 50 Min)
SE	Submersible unit (IP68, 10 meters for 72 Hours)

Control	
Blank	(2) Position Control (Open / Close)
M	Standard Modulating Control Card
F	TMC2 Modulating Card Special inputs (ie. 0 to 135 Ohm Input)
D	DHC-100 Modulating Card Ultra precise: Provides 450 points of resolution

Actuator	
Size	
-500	500 In-Lbs
-690	690 In-Lbs
-1350	1350 In-Lbs
-1700	1700 In-Lbs
-2640	2640 In-Lbs
-4400	4400 In-Lbs
-5200	5200 In-Lbs
-6900	6900 In-Lbs
-10500	10500 In-Lbs
-17500	17500 In-Lbs
-25900	25900 In-Lbs

Motor	
X	115VAC/1PH Place holder only - Omit when at end of part number
A	24V AC/DC (N/A 4400 - 25900)
B	N/A
C	24VDC (N/A 4400 - 25900)
D	24VAC/1PH (N/A 4400 - 25900)
E	220VAC/1PH
F	220VAC/3PH (N/A 500, 690)
H	380/440VAC/3PH (N/A 500, 690)
J	460/480VAC3PH (N/A 500, 690)

Options	
X	No options Place holder only - Omit when at end of part number
B	Semi-integral Control Unit (N/A 500, 690)
C	Intelligent Digital Control Unit (N/A 500, 690)
D	Local / Remote Control Switches (Only 500, 690)
E	Electronic Speed Control Module - 115 VAC only
F	2 Wire Control & Speed Control - 115 VAC only
G	End of travel time delay (same in both directions)
R	2 Wire Control, Relay - 115 VAC control voltage
S	2 Wire Control, Relay - 24 VAC control voltage
T	2 Wire Control, Relay - 24 VDC control voltage

Miscellaneous Options	Note: Add all miscellaneous options to end of part number
Blank	No options
T	4-20mA Transmitter
N	1000 Ohm Potentiometer
O	5000 Ohm Potentiometer
P	10K Ohm Potentiometer
X	120° Operation (N/A 17500 or 25900)
Y	180° Operation (N/A 17500 or 25900)
Z	270° Operation (N/A 17500 or 25900)
L	Position Indicator Lamps (Power, Open, Close, Fault) (N/A 500, 690)
S	(2) additional limit switches (6 total) (N/A 500, 690)
R	(2) additional torque switches (4 total) (N/A 500, 690)
XX	Special cycle time
	Floor Drive Mounting Configuration - Please See Acontrol Floor Drive Catalog

Example:

WEM-1350

(Weather Proof Housing, Modulating Control, model size 1350, 115VAC / 1PH)

WEM-1350XXT

(Weather Proof Housing, Modulating Control, model size 1350, 115VAC / 1PH, 4-20mA Transmitter)

How to Order

Triac Pneumatic Actuators



TRIAC Model Number Matrix for Pneumatic Actuators

Enclosures & Control

- 2** - Triac Rack & Pinion Actuator with double travel stops
- T** - Triac Rack & Pinion Actuator with single travel stop (discontinued from 40 ~ 3500)

Mounting Options

- R** - ISO / DIN mounting configuration (2500 & 3500 have male outputs)
- CB** - Direct mount to Centerline BFV new & old style
- K** - Direct mount to Keystone / ABZ / Ultraflow BFV
- N** - Direct mount to Nibco BFV

Note: Others available, call for details

Size

- 10** - 100 in-Lbs
- 20** - 200 in-Lbs
- 40** - 400 in-Lbs
- 80** - 800 in-Lbs
- 130** - 1300 in-Lbs
- 200** - 2000 in-Lbs
- 300** - 3000 in-Lbs
- 500** - 5000 in-Lbs.
- 850** - 8500 in-Lbs
- 1200** - 12000 in-Lbs
- 1750** - 17500 in-Lbs
- 2500** - 25000 in-Lbs
- 3500** - 35000 in-Lbs

- DA** - Double acting configuration
- DAR** - Double acting (reverse acting) configuration
- SR** - Spring return fail clockwise configuration
- SO** - Spring return fail counter-clockwise configuration

- Blank** - Standard Buna seals
- V** - Viton seals
- LT** - Low temperature Buna seals

- Blank** - 5 springs per side (SR & SO only)
- O** - Number of spring per side (1, 2, 3, 4, 6) (SR & SO only)

E - Extra long travel stops

Example: 2R80SRE (Model 80 Rack & Pinion Actuator with Travel Stop in both directions, Spring Return fail clockwise, with Extra long travel stops)

Specials and Applied Solutions

Fusible Link Assemblies



Lockout Mounting Kits



Special Seats Balls and Seal Designs



Various handle and operator options

Floor Mounted Damper Drives



FM Approved Valves and Assemblies

Manual and automated valve assemblies for gas burner management applications and safety shutoff

See brochure for details.

Stem Extensions



Dual Valve Assemblies



180° Actuators



Limit Switches Mounted on Manual Valves



Steam-Jacketed Valves



While you have come to know A-T Controls for superior service in automated valves and day-to-day automation and controls, we specialize in offering solutions to your more unique and difficult applications. Listed below are some of the specials and solutions oriented products and services we offer.

Special End Connections

Virtually any Control Accessories

Filter Regulators

Speed Controls

Solenoids

Pneumatic Positioners

Electro-pneumatic Positioners

Dribble and "Batch" Controls

Complete Mounting and Assembly

Lockup Valves

Declutchable Gear Operators

Dump Valves

Flow Controls

Mounting Kits

Various Metallurgy

Special Coatings and Treatments

Special Tubing and Fittings

Alloy Trim



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<http://www.a-tcontrols.com>