



Triac® T5 Series Tank Bottom Valve features the 316SST Series 55 valve body. The 3-piece design allows for easy maintenance and assembly. The weld-in-place tank pad is of 316L SST construction and bolts directly to the valve's center body. It can be fitted with a threaded, socket weld, butt weld or ANSI Class 150 flanged mating end.

These valves are easily automated and feature the same high quality live loaded stem sealing system of the Series 55. A custom bracket can be designed to move the actuator away from the tank bottom radius.

### **Easy to Automate!**

See automated data sheets for pre-sized assemblies



**Pneumatic**



**Electric**



## **T5 Series Tank Bottom Valves**

**Sizes 2", 3", and 4"**

**800/600 psi WOG (by size)**

**316L SST Tank Pad**

**Full Port**

**Live Loaded Packing System**

**ISO 5211 Actuator Mounting Pad**

**Blowout-Proof Stem w/Dual  
Anti-Static Devices**

**RTFE Seats Standard**

**Lockable Manual Handle**

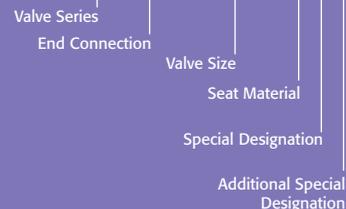
#### **STANDARDS**

DESIGN	ANSI/ASME B16.34
END CONNECTIONS	ASME B1.20.1, B16.11
PRESSURE TESTING	API 598
MOUNTING	ISO 5211
MARKING SYSTEM FOR VALVES	MSS SP-25
MATERIAL CERTIFICATION	EN 10204-3.1 MTR
QUALITY ASSURANCE	ISO 9001:2015

#### **HOW TO ORDER MANUAL VALVES**

SAMPLE PART #

**T5-F1-0300-XXX**



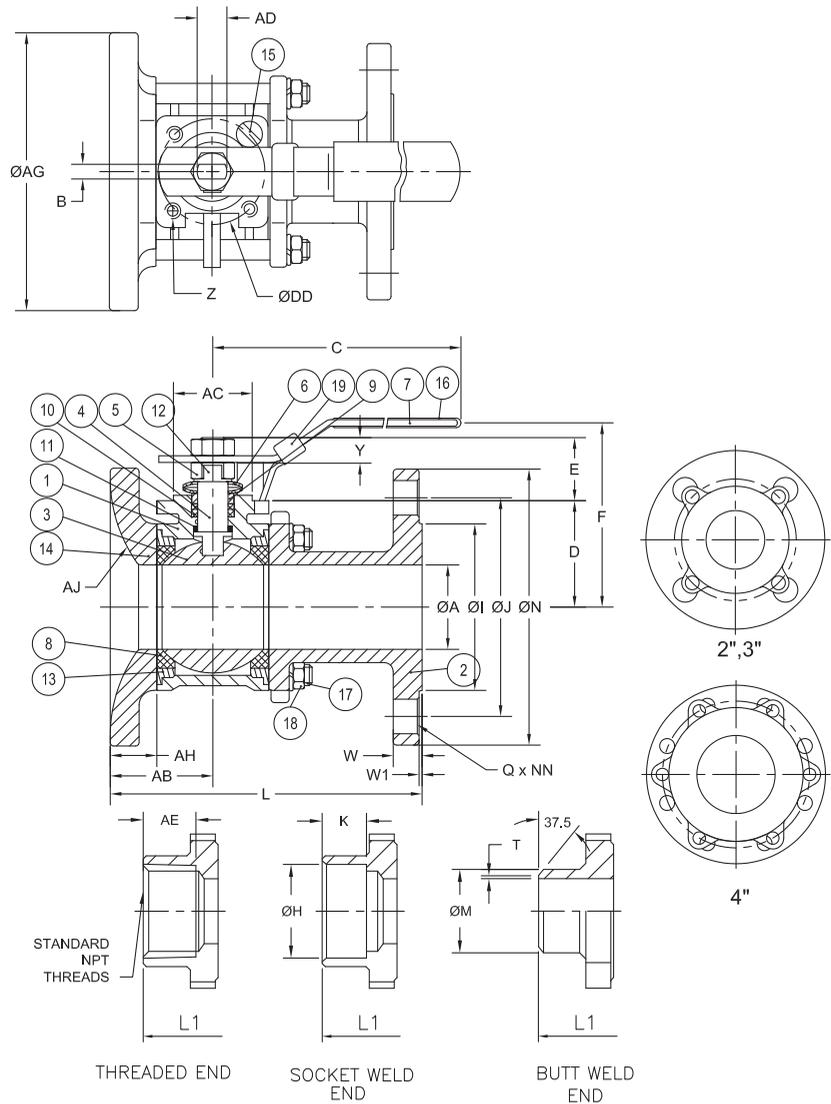
See part number matrix for itemized options

# Series T5

## MATERIALS LIST

NO.	PART NAME	QTY.	MATERIAL
1	BODY	1	ASTM A351 GRADE CF8M
2	END CAP	1	ASTM A351 GRADE CF8M
3	BALL	1	ASTM A351 GRADE CF8M
4	STEM	1	ASTM A276 SS316
5	STEM NUT	1	AISI 304
6	BELLEVILLE WASHER	2	AISI 301
7	HANDLE	1	AISI 304
8	SEAT	2	RTFE
9	GLAND BUSHING	1	AISI 304
10	GLAND PACKING	2	PTFE
11	THRUST WASHER	1	RTFE
12	LOCK SADDLE	1	AISI 304
13	JOINT GASKET	2	PTFE
14	TB END CAP	1	ASTM A351 GRADE CF3M
15	STOP BOLT	1	AISI 304
16	HANDLE SLEEVE	1	VINYL
17	BODY BOLT	*	ASTM A194 GRADE 8
18	BODY BOLT NUT	*	AISI 304
19	HANDLE LOCK	1	AISI 304

\* For 2" and 3" — 4 pcs.  
For 4" — 6 pcs.



## DIMENSIONS (IN)

SIZE	A	B	C	D	E	F	H	I	J	K	L	L1	M	N	Q	T	W	W1
2"	1.97	0.382	7.28	2.15	1.22	4.33	2.41	3.62	4.75	0.63	6.48	4.86	2.38	6.00	0.75	0.06	0.63	0.06
3"	3.15	0.472	10.24	3.33	1.55	6.38	3.54	5.00	6.00	0.63	8.32	6.77	3.54	7.50	0.75	0.08	0.75	0.06
4"	3.94	0.591	11.42	4.19	2.06	7.48	4.55	6.19	7.50	0.79	10.65	8.44	4.57	9.00	0.75	0.14	0.94	0.06

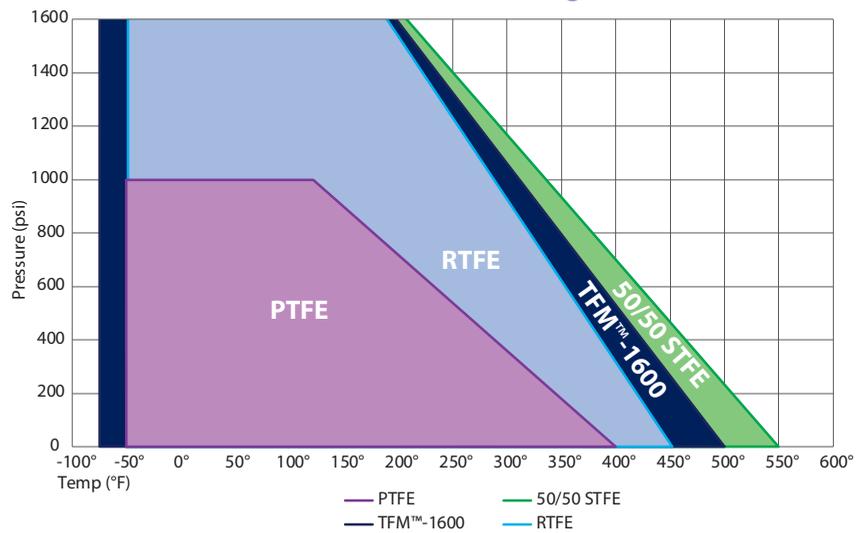
SIZE	Y	Z	AB	AC	AD	AE	AG	AH	AJ	DD	NN	LBS	#(LBS)	ISO 5211
2"	0.539	M6	2.28	1.38	0.551	0.86	6.00	1.00	2.95	1.969	4	10.5	15.0	F05
3"	0.736	M10	3.17	2.76	0.748	1.23	10.00	1.22	6.50	4.016	4	34.5	42.0	F10
4"	1.165	M10	3.80	2.76	0.748	1.42	11.38	1.30	7.68	4.016	8	57.0	70.0	F10

#(LBS) IS FOR TANK BOTTOM x FLANGED END WEIGHTS

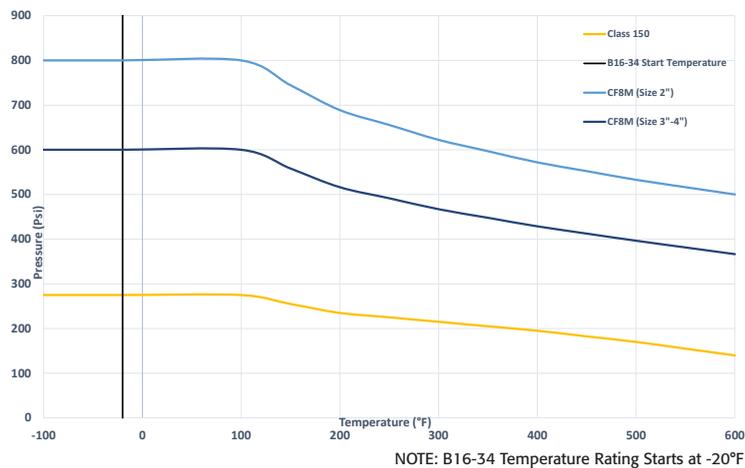
# Series T5

Temp	Pressure - Seat Material			
	RTFE	STFE	PTFE	TFM-1600
-75°				2000
-50°	2000	2000	1000	2000
100°	2000	2000	1000	2000
122°	2000	2000	1000	2000
150°	1829	1869	899	1852
200°	1524	1636	719	1587
250°	1220	1402	540	1323
300°	915	1168	360	1058
350°	610	935	180	794
400°	305	701	0	529
450°	0	467		265
500°		234		0
550°		0		

**PRESSURE VS. TEMPERATURE | SERIES T5  
Seat Pressure Ratings**



**Pressure vs. Temperature Chart  
for Valves 2" to 4"**



**BREAKAWAY TORQUES  
RTFE SEATS**

SIZE	IN-LBS
2"	296
3"	679
4"	1,500

Published torques are based on full differential pressure with clean water. Consult the Application Sizing Guide for assistance with sizing actuators.

VALVE SIZE	VALVE Cv
2"	400
3"	1100
4"	2000

# Series T5

## HOW TO ORDER: Manual Valves with Options

2	Valve Series
T5	Tank Bottom Valves

3	Body/Ball/Stem
Blank	Valve Series Standard (316SST)

4	End Connection
F1	150# Flanged End
TH	NPT Ends
SW	Socket Weld Ends
BW	Butt Weld Ends

5	Valve Size
0200	2"
0300	3"
0400	4"

6	Seat, Lining & Trim Material
X	Reinforced TFE Seats (RTFE)
S	50/50 STFE Seats
T	TFM™-1600 Seats
P	Virgin TFE Seats (PTFE)

7	Operator Options
X	No Specials/Series Standard Handle
G	Gear Operator
H	Gear Operator with Lockout Plate

8	Additional Specials
X	No Specials, Series Standard

### HOW TO ORDER MANUAL VALVES

**2 3 - 4 - 5 6 7 8**  
 ↓ ↓ ↓ ↓ ↓ ↓ ↓  
**T5 \_ - TH - 0200 - X X X**

## HOW TO ORDER: Automated Valves with Options

2	Valve Series
T5	Tank Bottom Valves

3	Body/Ball/Stem Material
Blank	Valve Series Standard (316SST)

4	End Connection
F	150# Flanged End
T	NPT Ends
S	Socket Weld Ends
B	Butt Weld Ends

5	Seat, Lining & Trim Material
1	Valve Series Standard, Reinforced TFE Seats (RTFE)
S	50/50 STFE Seats
T	TFM™-1600 Seats
P	Virgin TFE Seats (PTFE)

6	Valve Size
0200	2"
0300	3"
0400	4"

7 (A) Pneumatic Actuator - 3R, 3N, 3P Series
3RC 3R10 3RM 3R850
3RD 3R20 3RN 3R1000
3RE 3R40 3RP 3R1200
3RF 3R80 3RR 3R1750
3RG 3R130 3RS 3R2400
3RH 3R200 3RT 3R2500
3RJ 3R300 3RU 3R2700
3RK 3R500 3RV 3R3300
3RL 3R700 3RW 3R3500

3R=Standard, 3N=Electroless Nickel Plating, 3P=Teflon™ (PTFE) Coating

7 (A) Pneumatic Actuator - S2 Series
S2C S2-052 S2G S2-125
S2D S2-063 S2H S2-140
S2E S2-083 S2J S2-160
S2F S2-105 S2K S2-210

7 (B) Pneumatic Action
D Double Acting (DA)
S Spring CW (5 springs)*
O Spring CCW (5 springs)*
4 Spring CW (4 springs)**
F Spring CCW (4 springs)**

\*2500 & 3500 80 psig spring

\*\*2500 & 3500 60 psig spring

7 Actuator - Electric (On-Off)
WEX1 WE-350 WEG1 WE-5200
WEA1 WE-500 WEH1 WE-6900
WEB1 WE-690 WEJ1 WE-10500
WEC1 WE-1350 WEK1 WE-17500
WED1 WE-1700 WEL1 WE-25900
WEE1 WE-2640 WEM1 WE-53000
WEF1 WE-4400 WEN1 WE-80000

7 Actuator - Electric (Modulating)
WEA2 WEM-500 WEH2 WEM-6900
WEB2 WEM-690 WEJ2 WEM-10500
WEC2 WEM-1350 WEK2 WEM-17500
WED2 WEM-1700 WEL2 WEM-25900
WEE2 WEM-2640 WEM2 WEM-53000
WEF2 WEM-4400 WEN2 WEM-80000
WEG2 WEM-5200

### OPTIONS:

8 Accessories/Options	Model no.
X	No Specials
A	TYPE 4 Solenoid 120VAC TVCS-X411-4N-A120
B	TYPE 7 Solenoid 120VAC TVC6-X411-7N-A120
C	Intrinsically Safe Solenoid TVIS-X411-4N-D24
D	TYPE 4 Solenoid 24VDC TVCS-X411-4N-D24
F	TYPE 7 Solenoid 24VDC TVC6-X411-7N-D24
Q	TYPE 4 SST Solenoid 120VAC TVSS-X411-4N-A120
M	TYPE 7 SST Solenoid 120VAC TVSS-X411-7N-A120
L	TYPE 4 SST Solenoid 24VDC TVSS-X411-4N-D24
N	TYPE 7 SST Solenoid 24VDC TVSS-X411-7N-D24
P	Pneumatic Positioner PPR-1200
E	Electro-Pneumatic Positioner EPR-1000
R	24VDC Electric Actuator
S	220VAC Electric Actuator
T	Other Voltage Electric Actuator
W	12VDC Electric Actuator
Y	24VAC Electric Actuator

\* No voltage specified on electric assemblies denotes 120VAC

9 Accessories	Model no.
X	No Specials
A	TYPE 4 Limit Switch APL-210N
B	TYPE 7 Limit Switch APL-510N
C	Intrinsically Safe Limit Switch APL-218N
Q	TYPE 4 SST Limit Switch APL-910N
M	TYPE 7 SST Limit Switch APL-510S
H	NEMA 4 Std. Enc. APL-310N
1	HS1 High Speed Electric
2	HS2 High Speed Electric

10 Special Designation	
Blank	No Designation, SST Stem
F	Viton® Seal for Pneumatic Actuators (0°F to 300°F)

Viton® is a registered trademark of E. I. DuPont de Nemours.

### HOW TO ORDER AUTOMATED VALVES

**2 3 - 4 5 - 6 / 7 - 8 9 - 10**  
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
**T5 \_ - T 1 - 0400 / 3RES - X X - F**