

Automated Ball Valve Part Number Matrix

1 Prefix	
F	Firesafe Tested (see valve series for details & testing)
NS	NSF 61 & 372 Certified Series
2 Valve Series	
10	1pc. Regular Port 2000 WOG
20	2pc. Full Port 1000 WOG
21	2pc. Regular Port 2000/1500 WOG
22	2pc. Direct Mount 1000 WOG, Full Port
24	2pc. 3000 WOG
30	3-Way Flanged, Full Port
31	3-Way Flanged, Direct Mount, Full Port
33	3, 4, 5-Way Full Port, Multiport
38	3-Way NPT, Regular Port
55	3pc. 1000/800 WOG, Full Port
77	3pc. 1000/800 WOG, Full Port, Sanitary
75	Series 77, EC 1935/2004 Compliant
HP	3pc. Forged High Purity
H78	3pc. Cast High Purity, Encapsulated Bolts
83	3pc. 2000/1500 WOG, Full Port
8R	3pc. 2000/1500 WOG, Regular Port
88	3pc. Direct Mount 2000/1500/1000 WOG, Full Port
R8	3pc. Direct Mount 2000/1500 WOG, Regular Port
90	2pc. Flanged Full Port (Investment Cast)
91	Unibody Regular Port Flanged
9R	Unibody Regular Port Flanged
93	2pc. Flanged Full Port (Sand Cast)
V7	3pc. Sanitary, V-Port
V7S	Series V7, EC 1935/2004 Compliant
V8	3pc. V-Port
V9	Flanged V-Port
D9	Direct Mount Flanged
T5	Tank Bottom 3pc.
C8	Cryogenic 3pc. Full Port
CR	Cryogenic 3pc. Regular Port
DR	3-Way Bottom Entry Diverter Valve
LB	PFA Lined, Split Body, Flanged Ball Valve
P1	Schedule 10 Piggable Valve
VS	Segment V-Port, Soft
VM	Segment V-Port, Metal Graphite Packing
VV	Segment V-Port, Metal Viton® Packing

3 Body/Ball/Stem Material	
Blank	Valve Series Standard
A	Alloy 20 Body, Ball, & Stem
C	Carbon Steel Body
L	Low Carbon 316L Stainless Steel
J	Low Carbon 304 Stainless Steel
H	Carbon Body /Hastelloy Ball & Stem
Q	Carbon Body/Monel Ball & Stem
R	316 SST Body/Monel Ball & Stem
T	Hastelloy C-276 Body, Ball, & Stem
E	Electropolished Stainless Steel
Z	Epoxy Coated Carbon Steel
D	CD3MN Body/Duplex SST Ball & Stem
G	CE3MN Body/Super Duplex SST Ball & Stem
2	F316L (SF4) Electropolished Forged
3	CF3M (SF4) Electropolished Cast
4	F316H Forged Body
5	LCB Body
8	LCC Body
6	WC6 Body
9	WC9 Body
P	CF8 (304 SST) Body/304 SST Ball & Stem

4 End Connection	
T	NPT Ends
S	Socket Weld Ends
B	Butt Weld Ends
E	Extended Butt Weld Ends
F	150# Flanged Ends
3	300# Flanged Ends
6	600# Flanged Ends
R	600# RTJ Flanged Ends
C	Sanitary Clamp Ends
D	Tube O.D. Ends
H	Sanitary Clamp x Tube O.D. Ends
M	NPT x Socket Weld
Q	Tube x Socket Weld

5 Seat, Lining & Trim Materials	
1	Valve Series Standard
X	Reinforced TFE Seats (RTFE)
P	Virgin TFE Seats (PTFE)
U	UHMWPE Seats
D	Delrin® Seats
S	50/50 STFE Seats
C	25% CS Powder/75% TFE Seats (CTFE)
T	TFM™-1600 Seats
E	All TFM™-1600 Seats, Seals, & Packing
A	50% SS Powder/50% TFM™-1600 Seats (STFM)
F	PTFE Cavity Filler Seats
K	PCTFE Seats (Cryogenic)
L	PFA Lined w/ PTFE Seats
M	MG1241 Seats
Z	PEEK Seats
G	STFE Seats w/ Non-Standard Graphite Packing & Gaskets
2	Tungsten Carbide Coated 316SST Seats & Ball
3	HCr Coated Ball/Stellite® Inlay Seats
4	Chrome Carbide Coated 316 SST Seats & Ball
8	Chrome Carbide Coated Inconel® 718 Seats & Ball

6 Valve Size			
025	1/4"	125	1-1/4"
038	3/8"	150	1-1/2"
050	1/2"	200	2"
075	3/4"	250	2-1/2"
100	1"	300	3"

7 Actuator - Pneumatic (DA)					
TRYD	TR10DA	2R5D	2R200DA	2R0D	2R1750DA
TR1D	TR20DA	2R6D	2R300DA	2RAD	2R2500DA
2R2D	2R40DA	2R7D	2R500DA	2RBD	2R3500DA
2R3D	2R80DA	2R8D	2R850DA		
2R4D	2R130DA	2R9D	2R1200DA		

7 Actuator - Pneumatic (SR)			
TR1S	TR20SR	2R7S	2R500SR
2R2S	2R40SR	2R8S	2R850SR
2R3S	2R80SR	2R9S	2R1200SR
2R4S	2R130SR	2R0S	2R1750SR
2R5S	2R200SR	2RAS	2R2500SR
2R6S	2R300SR	2RBS	2R3500SR

7 Actuator - Pneumatic Stainless (DA)			
S21D	S2-052DA	S25D	S2-125DA
S22D	S2-063DA	S26D	S2-140DA
S23D	S2-083DA	S27D	S2-160DA
S24D	S2-105DA	S28D	S2-210DA

7 Actuator - Pneumatic Stainless (SR)			
S21S	S2-052SR	S25S	S2-125SR
S22S	S2-063SR	S26S	S2-140SR
S23S	S2-083SR	S27S	S2-160SR
S24S	S2-105SR	S28S	S2-210SR

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	WEF2	WEM-4400	WEL2	WEM-25900
WEB2	WEM-690	WEG2	WEM-5200	WEM2	WEM-53000
WEC2	WEM-1350	WEH2	WEM-6900	WEN2	WEM-80000
WED2	WEM-1700	WEJ2	WEM-10500		
WEE2	WEM-2640	WEK2	WEM-17500		

8 Accessories/Options	
X	No Specials
A	TYPE 4 Solenoid 120VAC
B	TYPE 7 Solenoid 120VAC
C	Intrinsically Safe Solenoid
D	TYPE 4 Solenoid 24VDC
F	TYPE 7 Solenoid 24VDC
Q	TYPE 4 SST Solenoid 120VAC
M	TYPE 7 SST Solenoid 120VAC
L	TYPE 4 SST Solenoid 24VDC
N	TYPE 7 SST Solenoid 24VDC
P	Pneumatic Positioner
E	Electro-Pneumatic Positioner
R	24VDC Electric Actuator
S	220VAC Electric Actuator
T	Other Voltage Electric Actuator
W	12VDC Electric Actuator
Y	24VAC Electric Actuator
Blank	*No voltage specified on electric assemblies denotes 120VAC

9 Accessories	
X	No Specials
A	TYPE 4 Limit Switch
B	TYPE 7 Limit Switch
C	Intrinsically Safe Limit Switch
Q	TYPE 4 SST Limit Switch
M	TYPE 7 SST Limit Switch
Z	180° Operation
1	HS1 High Speed Electric
2	HS2 High Speed Electric

10 Special Designation	
3	30° V-Port (v-ball)
6	60° V-Port (v-ball)
9	90° V-Port (v-ball)
Blank	No Designation, SST Stem
A	17-4 PH® Stem
B	XM-19 (Nitronic 50) Stem
C	Duplex 2205 Stem
D	Inconel® 718 Stem
L	L-Port 3-Way arrangement
T	T-Port 3-Way arrangement
Y	2 Position, 180° control for Wine Industry
P	3 Position, 180° control for Wine Industry
X	No Specials, Standard (HP/H78 Series)
S	Anti-Static Option (HP/H78 Series)

HOW TO ORDER AUTOMATED VALVES														
1	2	3	-	4	5	-	6	/	7	-	8	9	-	10
↓	↓	↓		↓	↓		↓		↓		↓	↓		↓
F	88	C		T	X		-	025	/	2R2D	-	X	X	