



# 300/350 Series

BALL VALVES

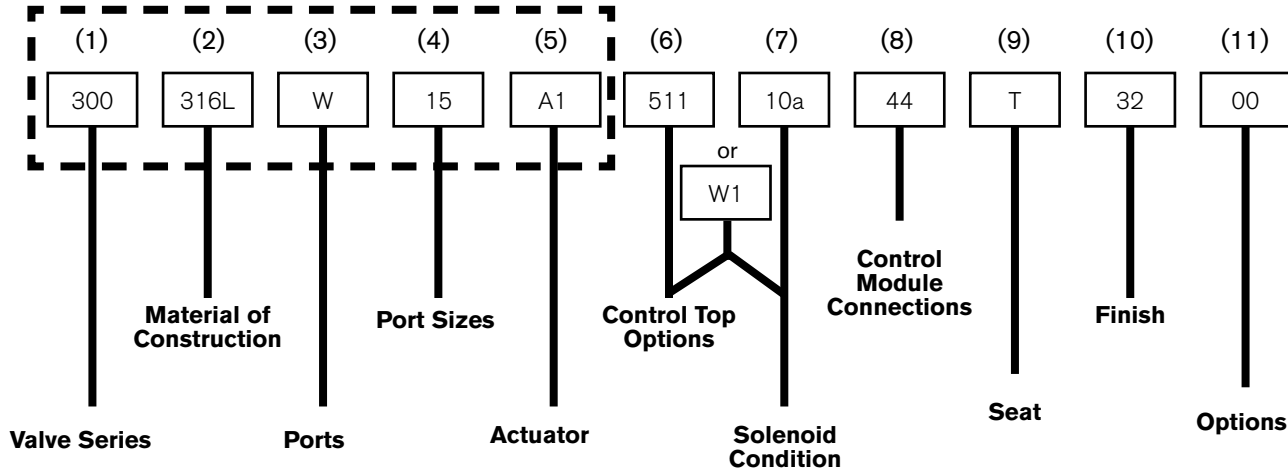


**> Waukesha Cherry-Burrell®**

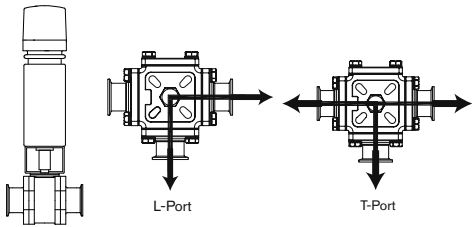
# Ball Valve Key

The Valve Key is designed to provide our customers with a clear and concise description of the valve required. The key number will define all areas of the valve's specification.

## Example:



## (1) VALVE SERIES



- 300 2-way ball valve
- 350-L 3-way ball valve<sup>1</sup> with L ports
- 350-T 3-way ball valve<sup>1</sup> with T ports

<sup>1</sup>Available only with S-Line Ports

## (4) PORT SIZES (S)

050	.50" (25mm)
075	.75" (38mm)
10	1.00" (51mm)
15	1.50" (64mm)
20	2.00" (76mm)
25	2.50" (102mm)
30	3.00" (152mm)
40	4.00" (101mm)

## (2) MATERIAL OF CONSTRUCTION

- 316L Material

## (3) PORTS

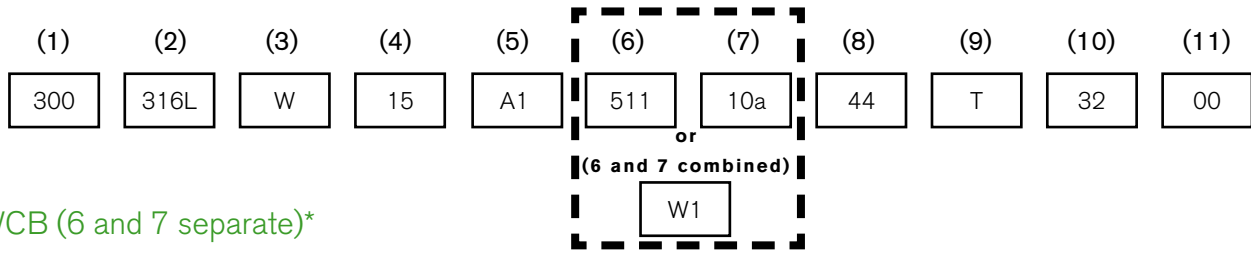
- W Buttweld
- S S-Line
- I I-Line (female - 15l)
- B Bevel Seat (male threaded end)
- F 150# Raised Face Flange<sup>2</sup>
- Q Q-Line
- MI Male I-Line
- BN Bevel Seat with Nut

<sup>2</sup>Flange ports not available with manual handles.

## (5) ACTUATOR

- H Manual Handle
- A1 3" (80 mm) Linear Air to Spring Normally Closed
- A2 3" (80 mm) Linear Air to Spring Normally Open
- A3 3" (80 mm) Linear Air to Air Double Acting
- B1 5" (125 mm) Linear Air to Spring Normally Closed
- B2 5" (125 mm) Linear Air to Spring Normally Open
- B3 5" (125 mm) Linear Air to Air Double Acting
- C1 7" (180 mm) Linear Air to Spring Normally Closed
- C2 7" (180 mm) Linear Air to Spring Normally Open
- C3 7" (180mm) Linear Air to Air Double Acting

- R3C125, R3C250, R3C450, R3C1000, R3C2250  
Rack and Pinion Air to Air Double Acting
- R1C250, R1C450, R1C1000, R1C2250, R1C3650, R1C5000  
Rack and Pinion Air to Spring Normally Closed
- R2C250, R2C450, R2C1000, R2C2250, R2C5000  
Rack and Pinion Air to Spring Normally Open



WCB (6 and 7 separate)\*

**(6) SWITCHES/SOLENOIDS**

Description	No Control Module <sup>1</sup>	Control Module no solenoids	Control Module with (1) 110V AC solenoid	Control Module with (2) 110V AC solenoids	Control Module with (1) 24V DC solenoid	Control Module with (2) 24V DC solenoids
No Switches	0	501 <sup>3</sup>	502	503	505	506
No Switches, Control top stem	1	-	-	-	-	-
No Switches, Control top stem - Set & Forget	001SF	-	-	-	-	-
Set & Forget	-	511	-	-	515	516
24 VDC Only						
Prox Switch (1) lower		521	522	523	525	526
Prox Switch (1) upper		531	532	533	535	536
Prox Switch (2)		541	542	543	545	546
24VDC/110 VAC						
Microswitch (1) lower	-	551	552	553	555	556
Microswitch (1) upper	-	561	562	563	565	566
Microswitch (2)	-	571	572	573	575	576
24VDC/110 VAC						
Prox Switch (1) lower <sup>2</sup>		581	-	-	-	-
Prox Switch (1) upper <sup>2</sup>		591	-	-	-	-
Prox Switch (2) <sup>2</sup>		601	-	-	-	-
5-25VDC Intrinsically Safe <sup>4</sup>						
AS-i Card & Set & Forget	-	611	-	-	615	616
AS-i Card & Prox Switch (1) lower	-	621	-	-	625	626
AS-i Card & Prox Switch (1) upper	-	631	-	-	635	636
AS-i Card & Prox Switch (2)	-	641	-	-	645	646
24 VDC Only						
DeviceNet Card & Set & Forget	-	711	-	-	715	716
DeviceNet Card & Prox Switch (1) lower	-	721	-	-	725	726
DeviceNet Card & Prox Switch (1) upper	-	731	-	-	735	736
DeviceNet Card & Prox Switch (2)	-	741	-	-	745	746
24 VDC (requires PNP switches)						
Bracket Mount Prox Switch Ready	L30					
Bracket Mount (1) 24V DC & Prox Closed	L31					
Bracket Mount (2) 24V DC & Prox Open & Closed	L32					
Bracket Mount (1) 110V AC & Prox Closed	L41					
Bracket Mount (2) 110V AC & Prox Open & Closed	L42					

<sup>1</sup>Where proximity switches are indicated, these are externally mounted on top of actuators.

Consult factory for special control module requirements.

<sup>2</sup>Requires amplifier (not included-provided by others).

<sup>3</sup>Top with no switches but - prox bracket = 501P or micro bracket = 501M

<sup>4</sup>Top with intrinsically safe switches and intrinsically safe solenoid(s) append an I

NOTE: If Control Top has Stainless Steel Cover prefix = SS

**(7) SOLENOID CONDITION**

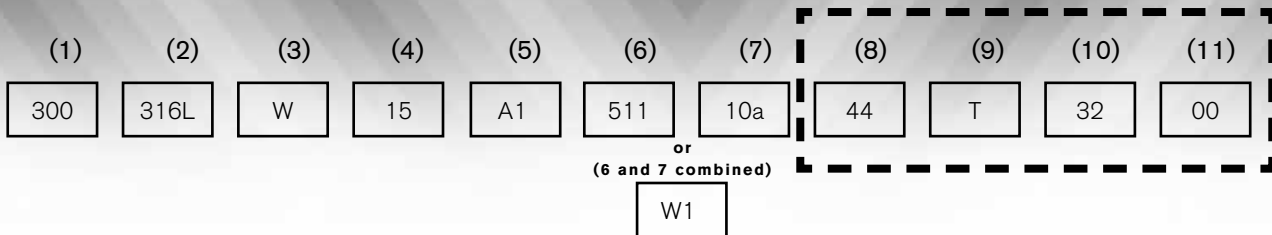
00	No Control Module
10a	No Solenoid
11a	1 Solenoid, Valve Condition Air/Spring
12	2 Solenoid, Valve Condition Air/Air

APV (6 and 7 combined)\*

**(6) SWITCHES/SOLENOIDS AND (7) SOLENOID CONDITION**

W1	(2) 24V DC Prox Switches (1) 24V DC Solenoid	Z1	(2) 24V DC Prox Switches (1) 24V AC Solenoid DeviceNet Card
U1	(2) 110V AC Prox Switches (1) 110V AC Solenoid	V1	(2) 24V DC Prox Switches (1) 24V AC Solenoid Profibus Card
Y1	(2) 24V DC Prox Switches (1) 24V AC Solenoid As-i Card		

\* Control top options only available on 300 series with linear actuator not 350 series

**(8) CONTROL MODULE CONNECTIONS**

00	No Control Module
01	Strain Relief
24	4 Pin Turck Eurofast Quick Disconnect
25	5 Pin Turck Eurofast Quick Disconnect
26	6 Pin Turck Eurofast Quick Disconnect
28	8 Pin Turck Eurofast Quick Disconnect
21	10 Pin Turck Eurofast Quick Disconnect
22	12 Pin Turck Eurofast Quick Disconnect
44	4 Pin MiniFast Quick Disconnect
45	5 Pin MiniFast Quick Disconnect
46	6 Pin MiniFast Quick Disconnect
47	7 Pin MiniFast Quick Disconnect
48	8 Pin MiniFast Quick Disconnect
49	9 Pin MiniFast Quick Disconnect
41	10 Pin MiniFast Quick Disconnect

**NOTE:** Includes connector on control module only, mating connector and cable by others.

**(9) SEAT/SEAL**

T	PTFE
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**(10) FINISH**

32	Standard Finish Machined <32Ra ID (.8µm)
15	15Ra Mechanical Polish ID (.2µm)
32EP	32Ra Machined Finish and Electropolish ID
15EP	15Ra Mechanical Polish and Electropolish ID

**NOTE:** Electropolish (EP) is in addition to the mechanical polish finish. Exterior 32Ra.

**(11) OPTIONS**

00	No Options
08	SS Tags
18	Paper Tags

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