



industrial ball valve part number matrix

please use all digits when ordering

00-000-00

note: not all options and combinations available on all sizes and series. review the specific technical sheet to determine availability.

material or style

2-piece & unibody valves	
70	Bronze
71	Bronze with Pads
71AR	Bronze, Act Rdy, V-ring Packing, Live Loaded
72	Carbon Steel (Forged Body & Full Port)
73	Carbon Steel (Forged Body)
73A	A105 Carbon Steel (Forged Body)
74	Nickel
75	Pad-Locking Bronze
76	CF8M Stainless Steel
76AR	CF8M SS, Act Rdy, V-ring Packing, Live Loaded
76F	CF8M Stainless Steel, Full Port
77	Bronze Full Port
77AR	Bronze, Full Port, Act Rdy, V-ring Packing, Live Loaded
77C	Bronze Full Port Economy
78	Special Valves and Kits
79	Refrigerant Valves
7A	Chlorine Carbon Steel
7K	Bronze Full Port Drain
80	Bronze, UL Listed
81	Bronze, UL Listed Plain Ball
82	Bronze 3-Piece Full Port
89	Cast Carbon Steel w/ Pads
89AR	Cast Carbon Steel, Act Rdy, V-ring Packing, Live Loaded
9A	Bronze, Heavy Patt., Unibody
90	Bronze, Unibody UL Listed
91	Bronze, Unibody
92	Cast Carbon Steel Unibody
93	Carbon Steel Unibody
95	Bronze & Stop Drain
96	CF8M Stainless Steel Unibody
399	Alloy-20 NPT

3-piece valves	
83A	CS 3-Piece 1500 lb Full Port
83B	CS 3-Piece ASME Class 600 Full Port
84A	CS 3-Piece 1500 CWP Standard Port
84B	CS 3-Piece ASME Class 600 Standard Port
85A	SS 3-Piece 1500 CWP Standard Port
85B	SS 3-Piece ASME Class 600 Standard Port
86A	SS 3-Piece 1500 lb Full Port
86B	SS 3-Piece ASME Class 600 Full Port
86C	Alloy-20 3-Piece, ASME Class 600 Full Port
83R	CS 3-Piece, Full Port (2" & 3" only)
86R	SS 3-Piece, Full Port (2" & 3" only)

flanged valves	
87A	CF8M SS Flanged
87B	CF8M SS Flanged Unibody
88A	Carbon Steel Flanged
88B	Carbon Steel Flanged Unibody
88L	Low Temp Carbon Steel Flanged

type

2-piece & unibody valves	
1	NPT Female or Std Connection
2	Solder/Socket Weld
3	Union End x NPT (70-3) Double UNION END (73-3, 76-3)
4	Union End x Solder Socket Weld Double Union End (76-4)
5	Spring Return Handle
6	3-Way NPT
7	Full Port Refrigeration Valves
8	Male X Female NPT
9	3-Way Solder / O-Ring Boss (70-9) SAE Straight Threads (72, 77)

3-piece valves	
1	NPT Female
2	Solder (82)/Socket Weld (83/86)
3	Schedule 5 Butt Weld
4	Schedule 10 Butt Weld
5	Schedule 40 Butt Weld
6	Schedule 80 Butt Weld

flanged valves	
1	Class 150 Standard Port
2	Class 150 Full Port
3	(AAR Valves)
4	Class 150, Standard Port, Alloy 20 (87A)
5	Class 150, Full Port, Alloy 20 (87A)
6	Class 300, Full Port, Alloy 20 (87A)
7	Class 300, Standard Port
8	Class 300, Standard Port, Alloy 20 (87A)
9	Class 300 Full Port
F	Class 600 Full Port

variation

0	Standard Configuration
3	Ni-Cu Ball & Stem
4	SS Ball & Stem
8	SS Stem
9*	Pinned Retainer
A	Alloy 20
H	Hastelloy® C Ball & Stem
N	Nickel

*bronze valves only

size

1	1/4"
2	3/8"
3	1/2"
4	3/4"
5	1"
6	1 1/4"
7	1 1/2"
8	2"
9	2 1/2"
O	3"
A	4"
C	6"
E	8"
G	10"
H	12"

options

-01	Standard Configuration
-02	Grounded
-04	2 1/4" Stem Extension
-05	Plain Ball
-07	Tee Handle
-08	90° Reversed Stem
-10	SS Lever and Fastener
-11	Therma-Seal™ Handle
-12	Stamped "157 SWP" & Bagged
-13	Stamped "157 SWP"
-14	Side Vented Ball (Uni-Directional)
-15	Round Handle, Steel
-16	Chain Lever - Valve in Vertical Position
-17	Rough Chrome Plated
-18	Plain Yellow Grip
-19	Pad-Locking
-20	Slot Vented Ball (Bi-Directional)
-21	UHMWPE Trim (Non PTFE)
-22	Viton Union Seals
-23	Tank Flange (2" 3-Pc. Valves Only)
-24	Graphite Packing (Not Always Firesafe)
-26	For Chlorine Service: Side Vented, Cleaned (CS, HC, Monel Only)
-27	SS Latch Lock Lever & Nut
-29	Graphite Packing & Seals (Firesafe)
-30	Cam-Lock Handle And Grounded
-31	7B Series w/Boss Not Drilled/Tapped
-32	SS Tee Handle & Nut (Hi-Rise Handle)
-33	73-300 Series w/Pad Drilled/Tapped
-34	Nylatron Seats (96 Series)
-35	PTFE (Virgin TFE)
-36	SS Hi-Rise Round Handle, SS Nut
-38	Peek Seats & Bearing, Graphite Packing & Seals
-39	SS Hi-Rise Locking Round Handle, SS Nut
-40	Cyl-Loc & Grounded
-41	Automatic Drain (Uni-Directional)
-42	Non-Vented Ball, No Hole in Slot (CS & SS)
-43	Cyl-Loc, Grounded Ball & Stem, 680 Loctite or 3 Tack Welds
-44	Seal Welded (76-100 & 89-100 Series)
-45	Less Lever & Nut (No Hangtag)
-46	Latch-Lock Lever - Lock in Closed Position Only
-47	SS Oval Latch-Lock Handle
-48	SS Oval Handle (No Latch)
-49	Assembled Dry
-50	2 1/4" Locking Stem Extension
-51	One Tack Weld
-52	Two Tack Welds
-53	Three Tack Welds
-54	Four Tack Welds
-56	Multifill Seats (MPTFE) Not Available When 250#SWP Applies Cleaned for Oxygen Service (N/A on LF Bronze with Solder Extensions)
-57	Chain Lever - Valve in Horizontal Position
-58	SS External Trim (3-Pc. and Flange Valves)
-60	Grounded Ball & Stem
-62	Body Center Section
-63	NPT x Solder / Socket Weld
-64	250# SWP (MPTFE Seats & Packing)
-65	MPTFE Seats & Graphite Packing (-24 & -56)
-66	FNPT x Butt Weld
-67	Cleaned for Industrial Gas (CS Valves) (I7361 Desiccant)
-69	Purge Ports (Drilled/Tapped at Bottom & Approx. 45°)
-70	4" Extended Bonnet
-72	RTFE Packing
-73	TFE Packing, Spiral Wound Body Seals, TFE Fillers

-75	MPTFE Seats, PTFE Packing, RPTFE Gaskets
-76	Live Loaded - with Lever
-77	Live Loaded - Actuated or Gear Operated
-78	Delrin Seats
-79	Nylon Seats - Graphite Packing (72 Series)
-8R	15% Glass Filled TFM 1600 Seats, PEEK Bearing
-80	Dyneon TFE 1600 Seats, PEEK Bearing
-81	Graphite Packing with Braided End Rings (Flange Valves)
-82	Flat Face Flanges
-83	SS Tee Handle & Nut (SS Version of -07) (77 Series)
-84	Reverse SS Lever & Nut (77B Series)
-85	Short SS Tee Handle & Nut (Silicone Bronze Retainer) (77B 1/2")
-86	Reverse Locking SS lever (77B Series) (Locking Version of -84)
-87	Safety Latch (Flange Valves)
-88	Panel Mount (60A Series)
-89	PFA Seats
-9P	Double Packed Extended Bonnet with Port
-90	Double Packed Extended Bonnet
-91	Latch-Lock Tee Handle, SS
-92	Balancing Stop
-94	-04 & Balancing Stop
-95	Devlon Seats, Graphite Packing, PEEK Bearing
-96	PCTFE Seats, Graphite Packing
-97	Ground, Round Handle, Pinned or Tack Welded
-99	For 7B Series: -99A Less Lever, Side Tap -99B Less Lever, No Tap
-AR	Actuator Ready (MPTFE Seats, Live Loaded, Less Lever)
-BC	Ball Check
-BK	PCTFE Bearing
-CE	CE Approved (1 1/4" and Above Only)
-DP	Dye Penetrate
-EF	Fugitive Emissions Packing (Graphite)
-EP	Garlock EVSP Packing, Graphite Spiral Wound Gasket
-GS	Gas Service; CSA Approved
-HC	1/4" Hose Thread Retainer with Brass Cap & Chain
-KF	Kel-F Bearing
-MG	Gear Operated, Standard Hand Wheel
-MH	Gear Operated, Standard Hand Wheel & Lockout Device
-MJ	Gear Operated, Oversize Hand Wheel
-MK	Gear Operated, Oversize Hand Wheel & Lockout Device
-MP	Material Positive (PMI Testing)
-PH	17-4 PH Stem
-RR	Oiled and Bagged for Rust Prevention on Carbon Steel Valves
-SR	Spring Return Handle (83A/B & 86A/B Series)
-SV	Safety Vent (77-100 / 7K-100 Series) (Auto Drain)
-SW	Limit Switch Mounted
-TC	Tested, Hydrostatic w/Certification
-TD	Tested to API 6D w/Certification
-TH	Tested, Hydrostatic
-TM	MTR
-TR	Tested, Hydrostatic w/Certification and MTR
-TS	Tested, Special, Customer Specified
-TW	Tested, Hydrostatic w/Witness and Certification
-UA	AIS Compliant
-US	Made in USA
-ZG	Cup & Cone Style Packing, Graphite
-ZP	Cup & Cone Style Packing, PTFE
-ZP1	Fugitive Emissions Packing (Viton)
-ZP2	Fugitive Emissions Packing (Buna-N)
-ZP3	Fugitive Emissions Packing (Kalrez)
-SP3	Corrosion Testing to ASTM A262 Practice A (SS Valves Only)

modifying suffixes

- The "01" suffix represents the standard configuration detailed in the technical literature.
- If an option is desired, replace the "01" suffix with the suffix of the option.
- If multiple options are desired, replace the "01" suffix with the desired suffixes in the order shown below.
Example: 87A-10A-14-24-MG