

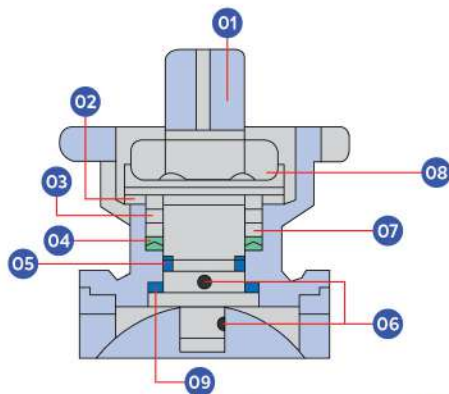


90 Series

3-Piece Body Design

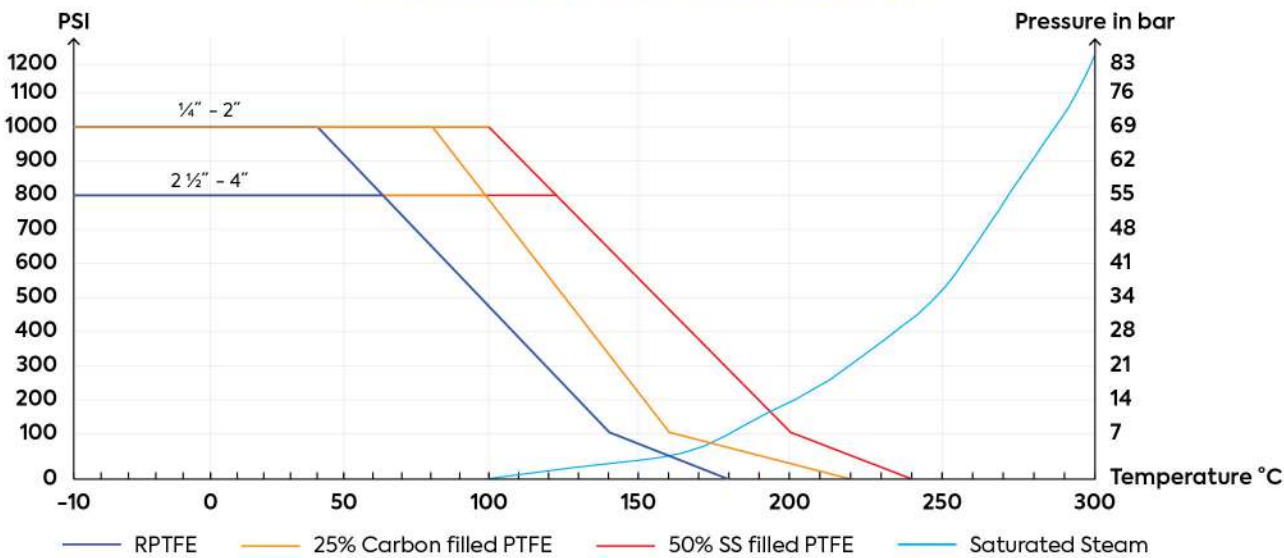
Full Bore	
Sizes ¼" - 4"	
PN64	¼" - 2"
PN50	2 ½" - 4"
SS316 body	
Threaded End, Socket Weld End, Butt Weld End	
Super Live Load Loaded Packing System	
Blowout-Proof Stem	
Dual Anti-Static Device	
ISO 5211 Direct Mounting Pad	
Standard Seat:	
RPTFE (max. 180°C)	
Seat Options:	
25% Carbon filled PTFE (max. 220°C)	
50% SS filled PTFE (max. 240°C)	
Lockable Handle	

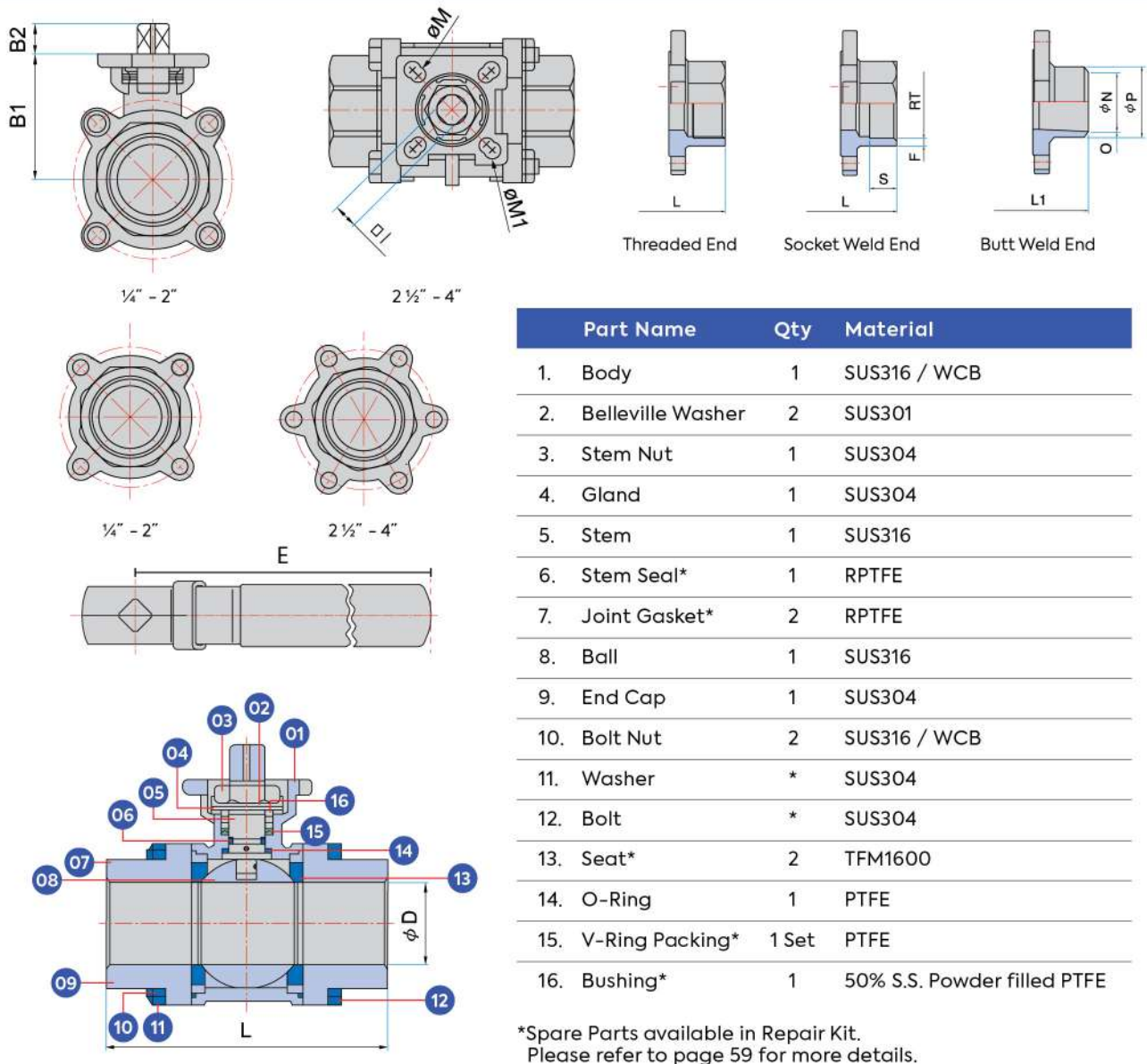
ValveWerkz 90 series ball valves feature a high quality investment cast body and ends. They are available ¼" - 4" with threaded, socket weld, and butt weld ends. Superior leak protection is accomplished by using a live-loaded packing system including Belleville washers and double "V" ring packing.



Part Name	
1.	Lock Saddle
2.	Belleville Washer
3.	Gland
4.	V-Ring
5.	Compress Ring & Lower/Stem Seal
6.	Anti-Static Devices
7.	Bushing
8.	Stem Nut
9.	O-Ring

Pressure / Temperature Ratings

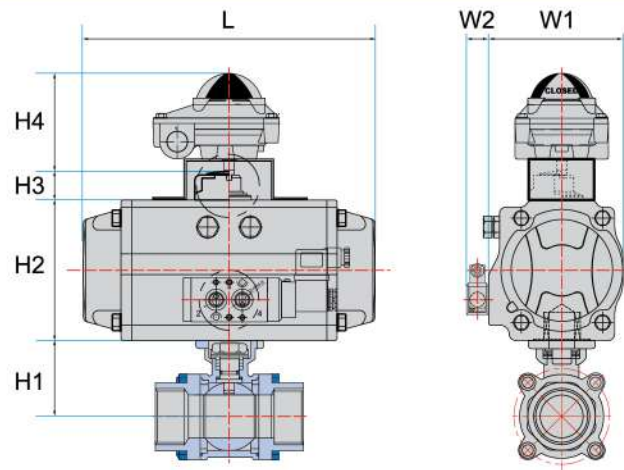




Dimensions(mm)

Size(Inch)	B1	B2	ØD	E	F	ØM	ØM1	I	L	L1	O	ØP	RT	ISO 5211	CV	Weight(kg)
1/4"	40.2	9	11.6	136	3.6	5.5	5.5	9	60	70	1	18	14.2	F03, F04	7	0.62
3/8"	40.2	9	12.5	136	2	5.5	5.5	9	60	70	1	18	17.7	F03,F04	8	0.64
1/2"	40.2	9	15	136	2	5.5	5.5	9	69	69	1	22.7	21.9	F03, F04	15	0.68
3/4"	43.4	9	20	136	2.6	5.5	5.5	9	78	78	1	27.7	27.2	F03, F04	40	0.78
1"	52	11	25	152	3.2	6.5	6.5	11	84	84	1	33.5	33.9	F04, F05	70	1.18
1 1/4"	56.5	11	32	152	5.35	6.5	6.5	11	110	104	1	42.2	42.7	F04, F05	110	1.62
1 1/2"	65.7	15.5	36	190	5.7	6.5	8.5	14	120	119	1	48.8	48.8	F05, F07	250	2.7
2"	73.95	15.5	50	190	6.1	8.5	8.5	14	140	131	1	61	61.3	F05, F07	400	3.9
2 1/2"	93	16.5	65	287	7.15	9	11	17	185	190	1	78	74	F07, F10	600	8.89
3"	102	16.5	80	304	7.6	9	11	17	205	220	1	90.7	90	F07, F10	1100	12.4
4"	132	21.5	100	440	7.85	N/A	11	22	230	270	1	115.8	115.6	F10	2000	21.69

The information provided in this document is intended for informational purposes only and is subject to change without notice.



Pneumatic Actuator (Double Acting)

DN(mm)	Size(Inch)	Torques	Actuator	H1	H2	H3	H4	W1	W2	L	Weight(kg)
8	¼"	5	HP-50	40.20	73.00	20.00	90.00	72.00	29.50	144.00	2.24
10	⅜"	5	HP-50	40.20	73.00	20.00	90.00	72.00	29.50	144.00	2.26
15	½"	5	HP-50	40.20	73.00	20.00	90.00	72.00	29.50	144.00	2.30
20	¾"	7	HP-50	43.40	73.00	20.00	90.00	72.00	29.50	144.00	3.02
25	1"	12	HP-50	52.00	73.00	20.00	90.00	72.00	29.50	144.00	3.42
32	1 ¼"	17	HP-63	56.50	87.00	20.00	90.00	85.00	29.50	163.00	4.38
40	1 ½"	22	HP-63	65.70	87.00	20.00	90.00	85.00	29.50	163.00	5.46
50	2"	26	HP-66	73.95	87.00	20.00	90.00	85.00	29.50	202.00	7.38
65	2 ½"	40	HP-75	93.00	104.00	20.00	90.00	96.00	29.50	210.00	12.97
80	3"	50	HP-88	102.00	116.00	20.00	90.00	108.00	29.50	247.00	17.78
100	4"	90	HP-100	132.00	128.00	20.00	90.00	123.00	29.50	268.00	28.77

The selection of the actuators are based on the below conditions:

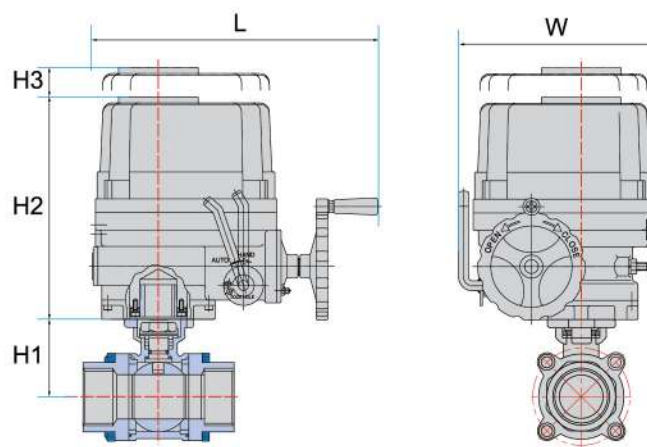
- Air Supply Pressure : 5.5 bar
- Operating Pressure : 10 bar
- Safety Factor : 30%

Pneumatic Actuator (Single Acting)

DN(mm)	Size(Inch)	Torques	Actuator	H1	H2	H3	H4	W1	W2	L	Weight(kg)
8	¼"	5	HP-50S (S11)	73.00	20.00	90.00	90.00	72.00	29.50	144.00	2.96
10	⅜"	5	HP-50S (S11)	73.00	20.00	90.00	90.00	72.00	29.50	144.00	2.98
15	½"	5	HP-50S (S11)	73.00	20.00	90.00	90.00	72.00	29.50	144.00	3.02
20	¾"	7	HP-63S (S11)	87.00	20.00	90.00	90.00	85.00	29.50	163.00	3.73
25	1"	12	HP-63S (S11)	87.00	20.00	90.00	90.00	85.00	29.50	202.00	4.89
32	1 ¼"	17	HP-75S (S11)	104.00	20.00	90.00	90.00	96.00	29.50	210.00	6.06
40	1 ½"	22	HP-88S (S11)	116.00	20.00	90.00	90.00	108.00	29.50	247.00	8.70
50	2"	26	HP-88S (S11)	116.00	20.00	90.00	90.00	108.00	29.50	247.00	9.90
65	2 ½"	40	HP-100S (S11)	128.00	30.00	90.00	90.00	123.00	29.50	268.00	16.83
80	3"	50	HP-115S (S11)	146.00	30.00	90.00	90.00	141.00	29.50	316.00	23.81
100	4"	90	HP-145S (S11)	179.00	30.00	90.00	90.00	172.00	29.50	414.00	39.09

The selection of the actuators are based on the below conditions:

- Air Supply Pressure : 5.5 bar
- Operating Pressure : 10 bar
- Safety Factor : 30%
- Air to Open, Spring to Close



Electric Actuator

DN(mm)	Size(Inch)	Torques	Actuator	H1	H2	H3	W	L	Weight(kg)
8	1/4"	5	HQ-004	40.20	124.30	N/A	88.60	166.60	2.90
10	3/8"	5	HQ-004	40.20	124.30	N/A	88.60	166.60	2.92
15	1/2"	5	HQ-004	40.20	124.30	N/A	88.60	166.60	2.96
20	3/4"	7	HQ-004	43.40	124.30	N/A	88.60	166.60	3.06
25	1"	12	HQ-004	52.00	124.30	N/A	88.60	166.60	3.46
32	1 1/4"	17	HQ-004	56.50	124.30	N/A	88.60	166.60	3.90
40	1 1/2"	22	HQ-004	65.70	124.30	N/A	88.60	166.60	4.98
50	2"	26	HQ-006	73.95	137.00	N/A	105.00	126.00	7.98
65	2 1/2"	40	HQ-008	93.00	235.00	120.00	170.00	258.00	17.37
80	3"	50	HQ-010	102.00	235.00	120.00	170.00	258.00	20.88
100	4"	90	HQ-015	132.00	268.00	160.00	229.00	338.00	39.37

The selection of the actuators are based on the below conditions:

- Air Supply Pressure : 5.5 bar
- Operating Pressure : 10 bar
- Safety Factor : 30%

REQUEST FOR QUOTE

**STEP 1**

Find the model series

**STEP 2**

Define the specification/
valve code

**STEP 3**

Fill up ordering sheet (back of the brochure) or Scan the QR code below

**STEP 4**

Submit your order via our website or contact your local partner

**STEP 5**

Prepare for confirmation and delivery

*For further assistance with placing your order, please contact your local partner.
A sales engineer will be assigned to assist you.

Valve Coding Sheet 90 Series

01	02	03	04	05																																																																							
S2																																																																											
Body Material <table border="1"> <thead> <tr> <th>Code</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>S2</td> <td>SS316</td> </tr> </tbody> </table>	Code	Material	S2	SS316	Seat Material <table border="1"> <thead> <tr> <th>Code</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>RPTFE</td> </tr> <tr> <td>M</td> <td>25% Carbon Filled PTFE</td> </tr> <tr> <td>G</td> <td>50% SS Filled PTFE</td> </tr> </tbody> </table>	Code	Material	T	RPTFE	M	25% Carbon Filled PTFE	G	50% SS Filled PTFE	Pressure Rating/Size <table border="1"> <thead> <tr> <th>Code</th> <th>Pressure</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>PN64</td> <td>1/4"</td> </tr> <tr> <td>B</td> <td>PN64</td> <td>3/8"</td> </tr> <tr> <td>C</td> <td>PN64</td> <td>1/2"</td> </tr> <tr> <td>D</td> <td>PN64</td> <td>3/4"</td> </tr> <tr> <td>E</td> <td>PN64</td> <td>1"</td> </tr> <tr> <td>F</td> <td>PN64</td> <td>1 1/4"</td> </tr> <tr> <td>G</td> <td>PN64</td> <td>1 1/2"</td> </tr> <tr> <td>H</td> <td>PN64</td> <td>2"</td> </tr> <tr> <td>I</td> <td>PN50</td> <td>3"</td> </tr> <tr> <td>J</td> <td>PN50</td> <td>4"</td> </tr> </tbody> </table>	Code	Pressure	Size	A	PN64	1/4"	B	PN64	3/8"	C	PN64	1/2"	D	PN64	3/4"	E	PN64	1"	F	PN64	1 1/4"	G	PN64	1 1/2"	H	PN64	2"	I	PN50	3"	J	PN50	4"	Connection <table border="1"> <thead> <tr> <th>Code</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BSP</td> </tr> <tr> <td>N</td> <td>NPT</td> </tr> <tr> <td>S</td> <td>Socket Weld</td> </tr> <tr> <td>W</td> <td>Butt Weld</td> </tr> <tr> <td>X</td> <td>Others (To be specified)</td> </tr> </tbody> </table>	Code	Material	B	BSP	N	NPT	S	Socket Weld	W	Butt Weld	X	Others (To be specified)	Operation <table border="1"> <thead> <tr> <th>Code</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>Lever</td> </tr> <tr> <td>D</td> <td>Double Acting</td> </tr> <tr> <td>S</td> <td>Pneumatic Actuated</td> </tr> <tr> <td>S</td> <td>Single Acting</td> </tr> <tr> <td>E</td> <td>Pneumatic Actuated</td> </tr> <tr> <td>E</td> <td>Electric Actuated</td> </tr> </tbody> </table>	Code	Type	L	Lever	D	Double Acting	S	Pneumatic Actuated	S	Single Acting	E	Pneumatic Actuated	E	Electric Actuated
Code	Material																																																																										
S2	SS316																																																																										
Code	Material																																																																										
T	RPTFE																																																																										
M	25% Carbon Filled PTFE																																																																										
G	50% SS Filled PTFE																																																																										
Code	Pressure	Size																																																																									
A	PN64	1/4"																																																																									
B	PN64	3/8"																																																																									
C	PN64	1/2"																																																																									
D	PN64	3/4"																																																																									
E	PN64	1"																																																																									
F	PN64	1 1/4"																																																																									
G	PN64	1 1/2"																																																																									
H	PN64	2"																																																																									
I	PN50	3"																																																																									
J	PN50	4"																																																																									
Code	Material																																																																										
B	BSP																																																																										
N	NPT																																																																										
S	Socket Weld																																																																										
W	Butt Weld																																																																										
X	Others (To be specified)																																																																										
Code	Type																																																																										
L	Lever																																																																										
D	Double Acting																																																																										
S	Pneumatic Actuated																																																																										
S	Single Acting																																																																										
E	Pneumatic Actuated																																																																										
E	Electric Actuated																																																																										

Your Valve Ordering Code:

90	01	02	03	04	05
	S2				

Example:

90 Series – S2TABL reduced bore.
SS316 Material. RPTFE Seat. Pressure Rating of PN64, 3/8 inch size. Connection Type of BSPT – Tapered. Lever Operating type.

*For special material or customisation, please refer to our sales engineer.



SCAN FOR ONLINE
ORDERING FORM

Tel: +65 6909 1221
Email: enquiry@valvewerkz.com
Website: www.valvewerkz.com

Repair Kits Available

Extend the life of your valves with ready-to-order repair kits. Swap out critical parts like bushings, seals, and seats on-site without replacing the whole valve. It's faster, more economical, and keeps your operations moving.

50 & 90 Series

Part Name	Qty
50 Series	
1. Bushing	-
2. Packing	1
3. Stem Seal	1
4. O-Ring Packing	1
5. Seat	2
90 Series	
1. Bushing	1
2a. V-Ring Packing	1 Set (3 pcs)
3. Stem Seal	1
4. O-Ring Packing	1
5. Seat	2

80 Series

Part Name	Qty
1. Bushing	1
2. V-Ring Packing	1 Set (3 pcs)
3. Upper Stem Seal	1
4. Compress Ring	1
5. Stem Seal	1
6. Seat	2
7. Body Gasket	2

