

DIRECT MOUNTING PAD SERIES TYPE V-304

3 Piece Ball Valve Threaded / BW / SW End

SIZE: 1/4" to 4"

THREADED
SOCKET WELD
BUTT WELD



HEROSE UK's Ball Valve have been specifically designed to meet the requirements of high purity applications. The product ranges include ASME, DIN, and JIS standards, from normal 1pc, 2pc, 3pc body, multiple-port & V-ported valve designs with pressure ratings 1000PSI, 2000PSI, and 3000PSI, to high pressure 6000 and 10000PSI. Products for NACE MR-01-75, Atex 2014/34/EU, TRD100, low emission ISO15848-1, and fire-safe API 607 are under choices.

All materials are fully controlled and available with EN10204 3.1 certificates.

Direct Mounting Pad: Improves control accuracy, and facilitates maintenance by providing a direct and robust attachment point for mounting actuators onto the valve body.

Application: Our valves are suitable for Automotive, Gas & Oil, Chemical, Water & Wastewater, Mining, Minerals & Metals, Marine, Pulp & Paper, Food & beverage, and Pharmaceutical industries.

Size	1/4" - 4" / DN08-100
Pressure Rating	3000 PSI / PN200 (Max)
End Connect	Threaded / BW / SW
Mounting Pad	ISO 5211 Direct
Material	CF8M / WCB 1.4408 / 1.0619

DIRECT MOUNTING PAD SERIES TYPE V-304

3 Piece Ball Valve Threaded / BW / SW End

DETAILS AND BENEFITS

BODY:

- Investment casting.
- Standard materials: CF8M, WCB.
- Special materials: Hastelloy, Duplex Steel, Super duplex steel.
- **Encapsulated body bolt design(DN08~DN50).**

STEM:

- Blow-out proof stem.
- Anti-static device.
- Stem nut tightened on stem.

SEAT/SEAL:

- PTFE, 15% glass, 25% carbon, TFM 1600,
- PEEK, POM, Metal seated available.
- 3"~4" double seal.
- Bi-directional sealing.
- Pressure relief hole to balance the pressure inside the valve body.
- Live loaded stem packing, increase the service life

DISC WASHER:

The Belleville washers are elastic and can compensate a force to the stem packing automatically when the stem packing is worn after a long-term operation.

BORE:

- Full bore.
- Reduced bore.

FIREPROOF(OPTIONAL):

API 607 designed.

LOCK WASHER:

Prevent the stem nut from loosening.

HANDLE:

360° Locking handle.

POSITIONING:

Stopper pin.

BALL:

- Floating ball design.
- The ball's surface is mirror polished, $Ra < 0.2\mu m$, which reduces friction with the ball seats and related torque.
- Ball with a pressure relief hole to balance the pressure inside the valve body.

HANDLE NUT/BOLT:

When the pipeline is under pressure, the handle still can be disassembled safely.

THRUST WASHER:

Prevent friction between the stem and the valve body.

O-RING:

- Guide the stem.
- Prevent fugitive leakage.

PLATFORM:

ISO 5211 direct mounting pad, dual pattern.

PORT:

- Threaded / Screwed: NPT, ISO228, BSPT
- Socket Welding(SW): EN 12760
- Butt Welding(BW): Sch.40

LENGTH:

- Threaded / Socket Weld(SW): DIN3202.
- Butt Welding(BW): MFG.

MARKING:

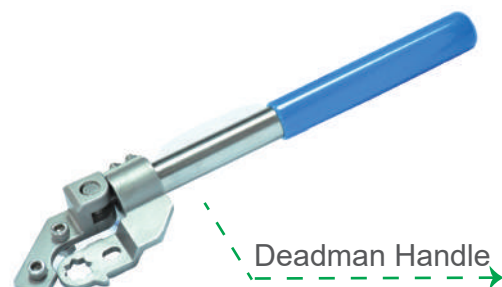
- The standard is marked with material, size, pressure, heat number on the body.
- Customer logo upon request.

INSPECTION:

API 598, EN 12266-1.

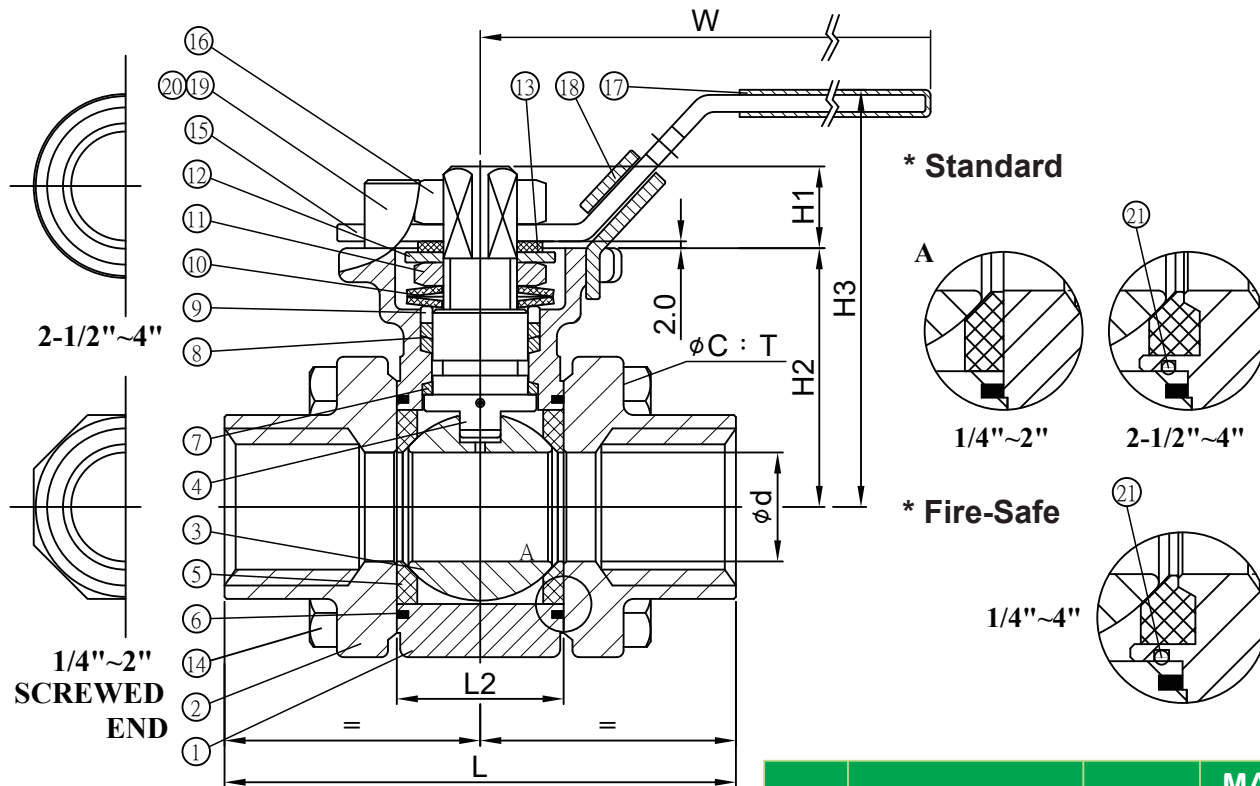
ADDITIONAL:

- 100 mm stem extension.
- Spring return deadman handle (up to 2").



DIRECT MOUNTING PAD SERIES TYPE V-304

3 Piece Ball Valve Threaded / BW / SW End



Features:

- > **ISO 5211 Direct Mounting Pad:**
Simplifies actuator installation for seamless control system integration.
- > **Anti-Static Device:**
Ensures electrical continuity for 1/4"-1/2" (Body-Stem) and 3/4"-4" (Body-Stem-Ball).
- > **Blow-Out Proof Stem:**
Safeguards against stem ejection even at high pressures, enhancing valve durability.
- > **End-to-End of Thread:**
DIN 3202 M3 standard ensures consistent threaded connections.
- > **End-to-End of Butt Weld:**
Manufacturer's specification ensures accurate butt weld connections.
- > **Fire-Safe Certificated (Optional):**
Provides additional safety assurance in demanding applications. Body seal & stem packing changed to Graphite.

ITEM	PARTS	Q'ty	MATERIAL	
			316	WCB
1	BODY	1	CF8M	WCB
2	END CAP	2	CF8M	WCB
3	BALL	1	CF8M	
4	STEM	1	316	
5	SEAT	2	RPTFE	
6	BODY SEAL	2	PTFE / Graphite	
7	THRUST WASHER	1	MG1431	
8	STEM SEAL	2	PTFE / Graphite	
9	GLAND RING	1	304	
10	DISC SPRING	2	301	
11	STEM NUT	1	304	
12	LOCK WASHER	1	304	
13	SPACER	1	304	
14	BODY BOLT	8-16	304	
15	HANDLE	1	304	
16	HANDLE NUT	1	304	
17	HANDLE SLEEVE	1	PLASTIC	
18	LOCK DEVICE	1	304	
19	STOP PIN	1	304	
20	NUT FOR PART 20	0-1	304	
21	O-RING	2(3"&4")	VITON	

DIRECT MOUNTING PAD SERIES TYPE V-304

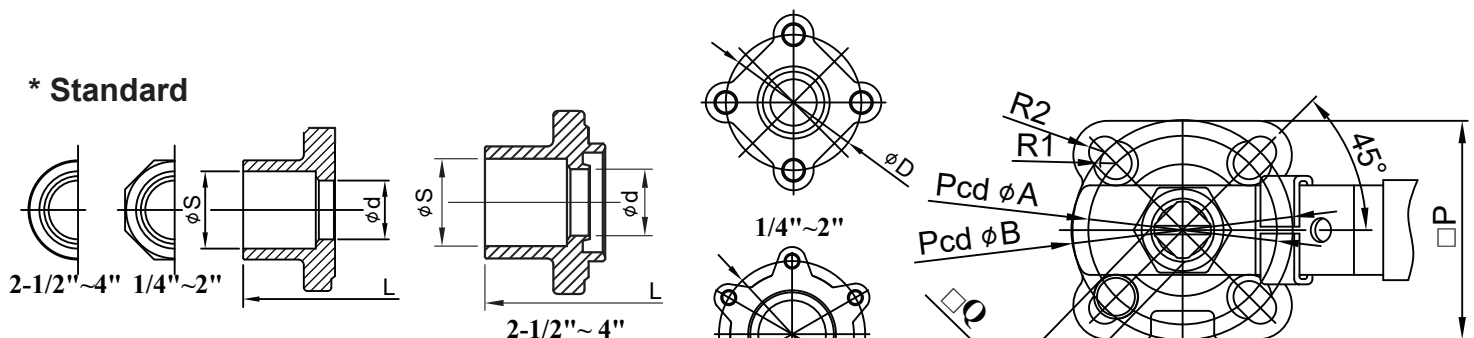
3 Piece Ball Valve Threaded / BW / SW End

DIMENSION (Full Bore)

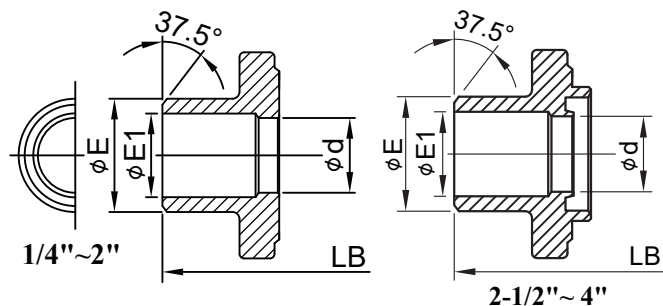
UNIT:mm

SIZE	ϕd	End-to-End±2		L2	H1±1	H2	H3±3	ISO 5211				ϕE	ϕE1	ϕS		□P	ϕC	T	ϕD	W ⁺⁰ ₋₁₀	TORQUE (Nm)
		L	LB					ϕPcd		□Q	R1			R2	B16.11						
		M3	MFG					Sch.40													
1/4"	11	65	60	22.7	11	34	68	F03/ϕ36	9.0	ϕ6.0	-	13.7	9.22	14.2	14.2	37.5	6.5	M6	40	117	5.8
3/8"	12.7	65	60	22.7	11	34	68	F03/ϕ36	9.0	ϕ6.0	-	18	12.48	17.6	17.6	37.5	6.5	M6	40	117	5.8
1/2"	16	75	65	24	11	38	72	F03/ϕ36 / F04/ϕ42	9.0	R3.0	R3.0	22	15.76	21.8	21.8	41.5	6.5	M6	44	117	8.4
3/4"	20	80	75	28	12	43	79	F03/ϕ36 / F04/ϕ42	11	R3.0	R3.0	27.5	20.96	27.2	27.2	41.5	8.4	M8	53.4	127	12.6
1"	25	90	85	34	12	50	85	F04/ϕ42 / F05/ϕ50	11	R3.0	R3.5	35	26.64	33.9	33.9	50.4	8.4	M8	65	170	17.4
1-1/4"	32	110	100	44	12	55	88	F04/ϕ42 / F05/ϕ50	11	R3.0	R3.5	44	35.08	42.7	42.7	50.4	10.6	M10	77	170	21.0
1-1/2"	38	120	110	53	16	65	107	F05/ϕ50 / F07/ϕ70	14	R3.5	R4.5	50	40.94	48.8	48.8	66.5	10.6	M10	93	182	37.0
2"	50	140	130	65	16	75	116	F05/ϕ50 / F07/ϕ70	14	R3.5	R4.5	61.5	52.48	61.5	61.5	66.5	10.6	M10	122	182	53.0
2-1/2"	65	185	170	74.6	24	103	153	F07/ϕ70 / F10/ϕ102	17	R4.5	R5.5	73	62.68	74	76.9	90	12.6	M12	140	333	74.0
3"	80	205	190	87	24	113	165	F07/ϕ70 / F10/ϕ102	17	R4.5	R5.5	88.9	77.92	89.8	-	90	12.6	M12	160	333	95.0
4"	100	240	220	112.5	40	150	205	F10/ϕ102 / F12/ϕ125	22	R5.5	R6.5	115	102.26	115.4	-	113	17.5	M16	210	333	126.0

* Standard

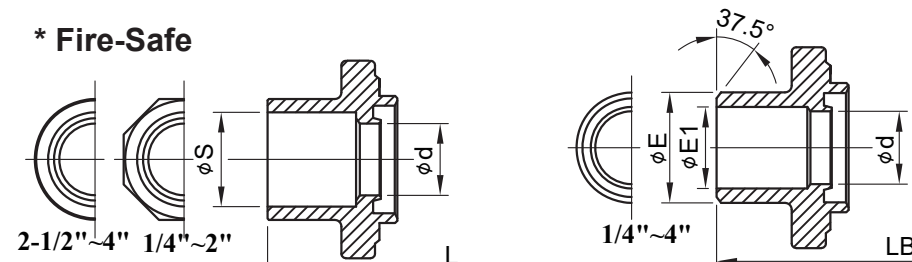


SOCKET WELD END



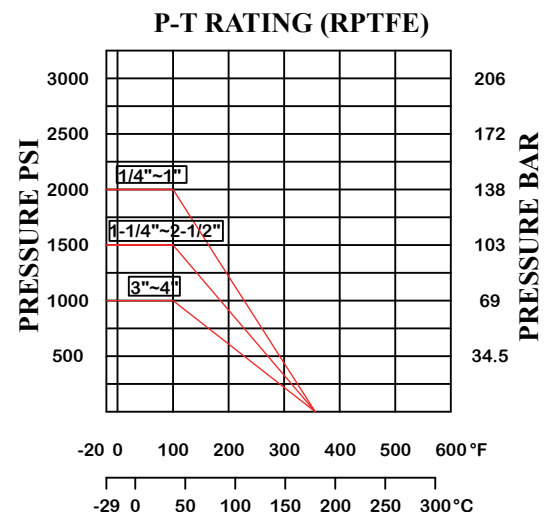
BUTT WELD END

* Fire-Safe



SOCKET WELD END

BUTT WELD END



DIRECT MOUNTING PAD SERIES TYPE V-304

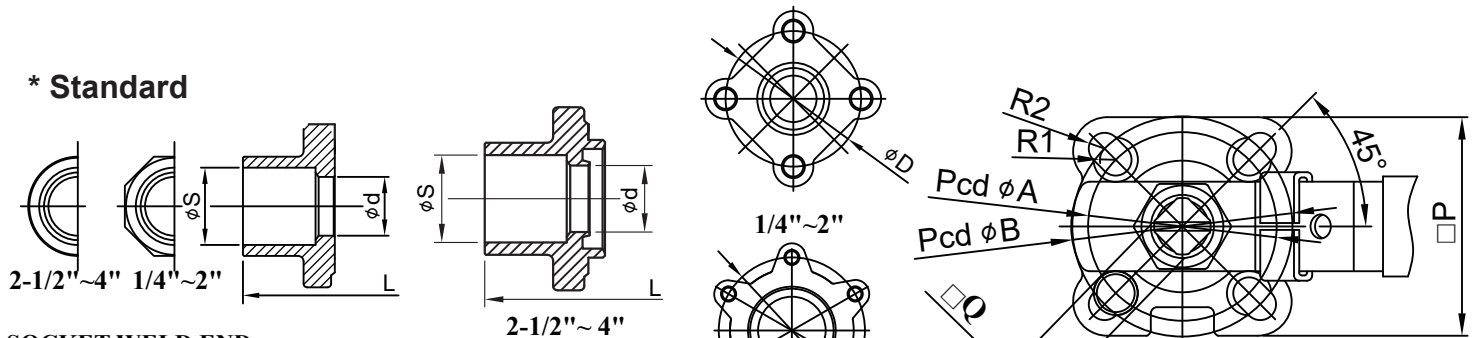
3 Piece Ball Valve Threaded / BW / SW End

DIMENSION (Reduced Bore)

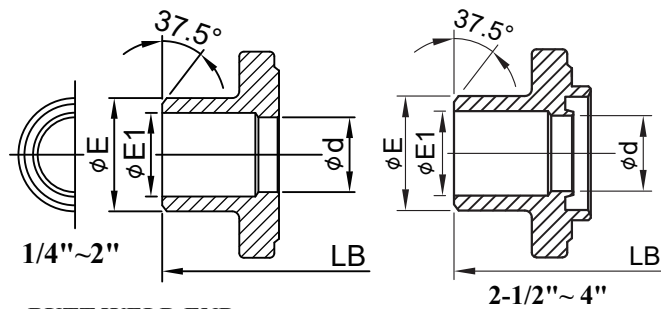
UNIT:mm

SIZE	ϕ d	End-to-End±2		L2	H1±1	H2	H3±3	ISO 5211				ϕ E	ϕ E1	ϕ S		□ P	ϕ C	T	ϕ D	W ⁺⁰ ₋₁₀	TORQUE (Nm)
		L	LB					ϕ Pcd	□ Q	R1	R2			B16.11	EN 12760						
		M3	MFG									Sch.40									
1/4"	8	65	60	22.7	11	34	68	F03/ϕ 36	9.0	ϕ 6.0	-	13.7	9.22	14.2	14.2	37.5	6.5	M6	40	117	5.8
3/8"	11	65	60	22.7	11	34	68	F03/ϕ 36	9.0	ϕ 6.0	-	18	12.48	17.6	17.6	37.5	6.5	M6	40	117	5.8
1/2"	12.7	75	60	22.7	11	34	68	F03/ϕ 36	9.0	ϕ 6.0	-	22	15.76	21.8	21.8	37.5	6.5	M6	40	117	5.8
3/4"	16	80	65	24	11	38	72	F03/ϕ 36 / F04/ϕ 42	9.0	R3.0	R3.0	27.5	20.96	27.2	27.2	41.5	6.5	M6	44	117	8.4
1"	20	90	75	28	12	43	79	F03/ϕ 36 / F04/ϕ 42	11	R3.0	R3.0	35	26.64	33.9	33.9	41.5	8.4	M8	53.4	127	12.6
1-1/4"	25	110	85	34	12	50	85	F04/ϕ 42 / F05/ϕ 50	11	R3.0	R3.5	44	35.08	42.7	42.7	50.4	8.4	M8	65	170	17.4
1-1/2"	32	120	100	44	12	55	88	F04/ϕ 42 / F05/ϕ 50	11	R3.0	R3.5	50	40.94	48.8	48.8	50.4	10.6	M10	77	170	21.0
2"	38	140	110	53	16	65	107	F05/ϕ 50 / F07/ϕ 70	14	R3.5	R4.5	61.5	52.48	61.5	61.5	66.5	10.6	M10	93	182	37.0
2-1/2"	50	185	130	65	16	75	116	F05/ϕ 50 / F07/ϕ 70	14	R3.5	R4.5	73	62.68	74	76.9	66.5	10.6	M10	122	182	53.0
3"	65	205	170	74.6	24	103	153	F07/ϕ 70 / F10/ϕ 102	17	R4.5	R5.5	88.9	77.92	89.8	-	90	12.6	M12	140	333	74.0
4"	80	240	190	87	24	113	165	F07/ϕ 70 / F10/ϕ 102	17		R5.5	115	102.26	115.4	-	90	12.6	M12	160	333	95.0

* Standard

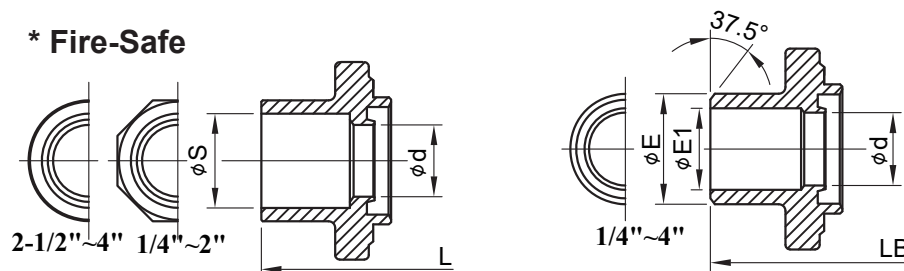


SOCKET WELD END



BUTT WELD END

* Fire-Safe



SOCKET WELD END

BUTT WELD END

