

HYGIENIC SERIES TYPE V36MH

3 Piece Ball Valve Clamp / OD Welding

SIZE: 1/2" to 4"

CLAMP
OD WELDING



HEROSE UK's V36MH is a 3-piece hygienic ball valve designed for food, biological, pharmaceutical, and similar industries. With an ISO direct mounting pad, it offers easy installation and integration with other equipment. Certified to meet EC 1935 and 3-A Sanitary Standards, this valve ensures compliance with industry regulations.

Featuring a blow-out proof stem and a lock device, the **V36MH** prioritizes safety and reliable operation. The cavity filled ball seat eliminates media retention, preventing spoilage and facilitating easy cleaning of the valve port.

With options for butt weld and clamp end connections, the V36MH provides flexibility to suit specific installation requirements. Its inside port has a smooth surface finish (Ra < 0.4um) for efficient flow. Complying with ASME B16.34/EN 12516 design standards, EN12516-2 wall thickness standards, ASME BPE (3A) clamp end, ASME BPE (3A) butt weld end, DIN 32676 H4 inside surface finish, and API598/ EN 12266-1 inspection and testing standards, the V36MH ensures quality, performance, and reliability.

Choose the **V36MH** for a high-quality hygienic ball valve that meets the stringent demands of food, biological, pharmaceutical, and related industries. It offers functionality, ease of maintenance, and compatibility with various actuators. Trust **HEROSE UK** for reliable valve solutions.

Size	1/2" to 4" / DN15-100
Pressure Rating	1000 PSI / PN63
End Connect	Clamp / OD Welding
Mounting Pad	ISO 5211 Direct
Material	CF8M / 1.4408

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DETAILS AND BENEFITS

BODY:

- Investment Casting .
- Standard Materials: CF8M/1.4408
- Special Materials: Upon request.
- Swing Out Body
-

STEM:

- Blow-out Proof Stem.
- Anti-static Device.

SEAT:

Live loaded stem packing, increase the service life.

THRUST WASHER:

Prevent friction between the stem and the valve body.

O-RING:

- Guide the stem.
- Prevent fugitive leakage.

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.

BALL:

- The ball's surface is mirror polished, $Ra < 0.2\mu m$, which reduces friction with the ball seats and related torque.

BALL SEAT:

- PTFE, RPTFE, TFM1600 available.
- Bi-directional sealing.
- Cavity filler seats & half cover seats.
- FDA certified.

HANDLE:

Locking Handle.

POSITIONING:

Stopper pin.

HANDLE NUT/BOLT:

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

PLATFORM:

ISO 5211 direct mounting pad.

PORT:

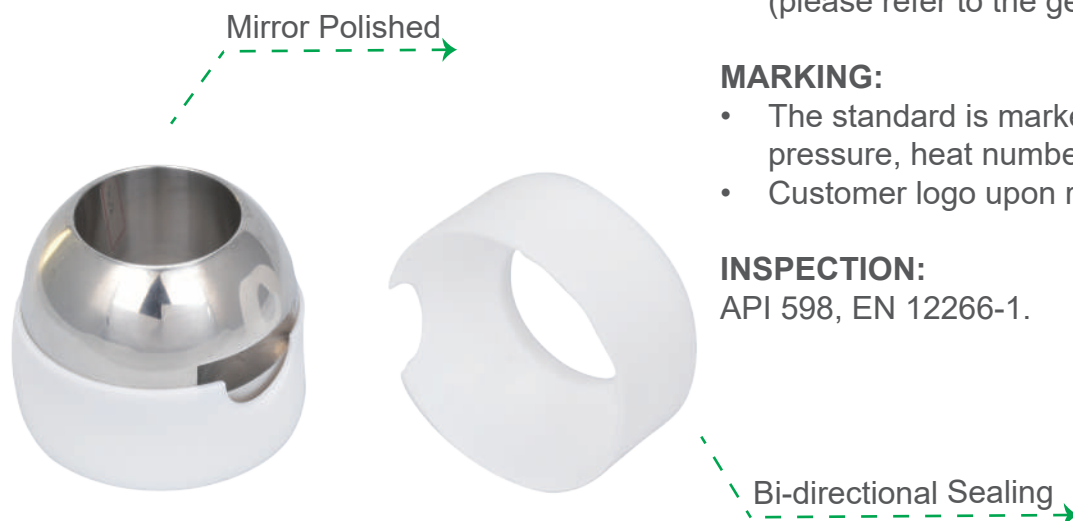
- Butt Welding(BW) and clamp ends connection.
- 2. Meets standards including BPE, DIN, BS (please refer to the general drawing)

MARKING:

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

INSPECTION:

API 598, EN 12266-1.



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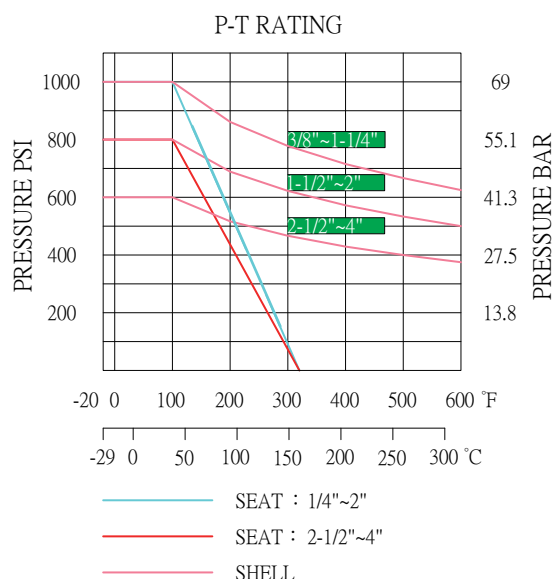
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Standard:

- > The valve's basic design conforms to the ASME B16.34 and EN 12516 standards, ensuring compliance with industry design requirements.
- > The valve's wall thickness meets the specifications outlined in the EN12516-2 standard, ensuring structural integrity and strength.
- > The valve's BPE (3A) clamp end complies with the ASME BPE standard, guaranteeing hygienic connections in bioprocessing applications.
- > The valve's BPE (3A) butt weld end adheres to the ASME BPE standard, providing reliable and sanitary connections in bioprocessing applications.
- > The inside surface of the valve has a finish that meets the DIN 32676 H4 standard, ensuring a smooth and clean surface for optimal hygiene.
- > The valve undergoes inspection and testing according to the API 598 and EN 12266-1 standards, ensuring quality and performance through rigorous testing procedures.
- > End's Options:
DIN CLAMP END : DIN 32676 series A
DIN BUTT WELD END : DIN 11866 series A
BS CLAMP END : BS 4825-3
BS BUTT WELD END : BS 4825-3

Features:

- > The valve is a three-piece design specifically designed for hygienic applications, ensuring ease of cleaning and maintenance.
- > The valve's end connection conforms to the 3A sanitary standards, ensuring hygienic and sanitary connections in the food and pharmaceutical industries.
- > The valve is available with butt weld and clamp end connections, providing flexibility and compatibility with different piping systems.
- > The valve features a blow-out proof stem design, preventing the stem from being blown out under high-pressure conditions, enhancing safety and reliability.
- > The valve is equipped with a lock device, allowing for secure locking in a specific position, providing additional control and security.
- > The valve has a cavity-filled ball seat design, reducing the risk of product entrapment and ensuring smooth flow and easy cleaning.
- > The inside port of the valve has a surface finish with a roughness average (Ra) of less than 0.4µm, ensuring a smooth and clean flow path.
- > The valve is designed with an ISO 5211 Direct Mounting Pad, enabling direct mounting of actuators for efficient automation.
- > The valve is equipped with an anti-static device, ensuring the dissipation of static electricity and reducing the risk of sparking and ignition.
- > Anti-Static Device: 3/8"~2":Body-Stem;
2-1/2"~4":Body-Stem-Ball.



CLAMP PRESSURE RATING(-10°C~140°C)

ØD(mm)	max pressure(bar)
6.35 ~ 42.4	25
48.3 ~ 76.2	16
85 ~ 219.1	10

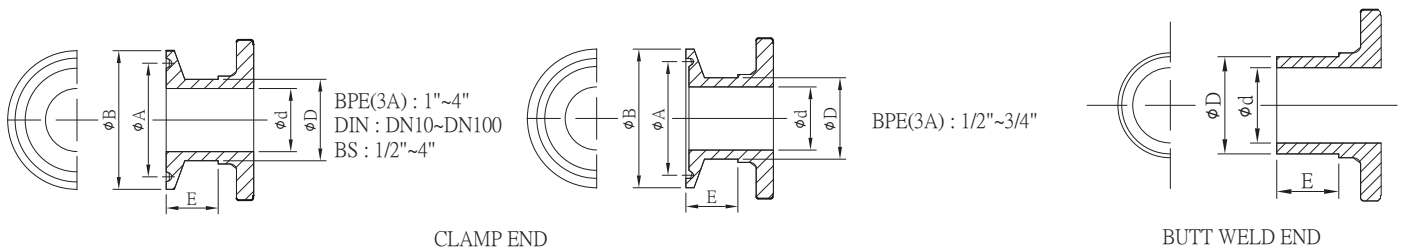
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DIMENSION

UNIT:mm

SIZE		BPE(3A)				DIN				BS				ISO 5211						L±2	H	W	E	S	S±1	Torque (Nm)	
NPS	DN	Ød	ØD	ØA	ØB	Ød	ØD	ØA	ØB	Ød	ØD	ØA	ØB	Pcd ØA	Pcd ØB	R1	R2	□Q									
3/8	10	-	-	-	-	10	13	27.5	34	-	-	-	-	F03	Ø36	F04	Ø42	3.0	3.0	9.0	79	53	95	21.5	33	10	2.5
1/2	15	9.4	12.7	20.2	25	16	19	27.5	34	9.5	12.7	20.3	25.4	F03	Ø36	F04	Ø42	3.0	3.0	9.0	89	57	95	21.5	36.5	10	3.5
3/4	20	15.75	19.05	20.2	25	20	23	27.5	34	15.85	19.05	20.3	25.4	F03	Ø36	F04	Ø42	3.0	3.0	9.0	101	64	95	25	44	10	5
1	25	22.1	25.4	43.5	50.5	26	29	43.5	50.5	22.2	25.4	43.5	50.5	F04	Ø42	F05	Ø50	3.0	3.5	11	114	75	120	28.7	52	12	7.5
1-1/4	32	-	-	-	-	32	35	43.5	50.5	-	-	-	-	F04	Ø42	F05	Ø50	3.0	3.5	11	127	81	120	28	57.5	12	12
1-1/2	40	34.8	38.1	43.5	50.5	38	41	43.5	50.5	34.9	38.1	43.5	50.5	F05	Ø50	F07	Ø70	3.5	4.5	14	140	100	150	29.7	69.3	16	15
2	50	47.5	50.8	56.5	64	50	53	56.5	64	47.6	50.8	56.5	64	F05	Ø50	F07	Ø70	3.5	4.5	14	156	109	150	31	78.5	16	28
2-1/2	65	60.2	63.5	70.5	77.5	66	70	83.5	91	60.3	63.5	70.5	77.5	F07	Ø70	F10	Ø102	4.5	5.5	17	197	135	215	37.5	101	19	40
3	80	72.9	76.2	83.5	91	81	85	97	106	73	76.2	83.5	91	F07	Ø70	F10	Ø102	4.5	5.5	17	229	145	215	46	111	19	65
4	100	97.38	101.6	110	119	100	104	110	119	97.6	101.6	110	119	F07	Ø70	F10	Ø102	4.5	5.5	17	241	160	300	37.5	126.5	19	90



No.	PART	Qty.	MATERIAL	
			316	304
1	BODY	1	CF8M	CF8
2	END CAP	2	CF8M	CF8
3	BALL	1	CF8M	CF8
4	STEM	1	316	304
5	SEAT	2	PTFE	
6	BODY SEAL	2	PTFE	
7	THRUST WASHER	1	PTFE	
8	STEM SEAL	2	PTFE	
9	O-RING	1	SILICONE	
10	GLAND RING	1	304	
11	DISC SPRING	2	301	
12	STEM NUT	1	304	
13	LOCK WASHER	1	304	
14	SPACER	1	304	
15	BODY BOLT	4-6	304	
16	SPRING	4-12	304	
17	NUT	4-12	304	
18	HANDLE	1	304	
19	HANDLE NUT	1	304	
20	HANDLE SLEEVE	1	PLASTIC	
21	LOCK DEVICE	1	304	
22	END CAP COVER	2	PLASTIC	

