



one brand ∞ infinite trust



MV1
TOP-ENTRY
BALL VALVE



MV3
SIDE-ENTRY
BALL VALVE



MV5
FULLY-WELDED
BALL VALVE

API 6D BALL VALVES

COMPANY PROFILE

ONE BRAND, INFINITE TRUST

MIR VALVE is a top-tier manufacturer offering the complete range of **ball and gate valves** serving the international oil & gas, petrochemical, refining and power industries. In less than 7 years, we have manufactured **over 9,000 MIR valves which are today in service** in onshore, offshore and subsea installations worldwide. Our technology and quality are proven in service.

With over 150 employees and a **plant** located in **Kuala Lumpur**, (Shah Alam Malaysia), and two **sales offices** in **Jakarta**, Indonesia and **Seoul**, Korea, we are **culturally in-tune** with all markets.

Our Quality Management System and products are certified to all standards including **ISO 9001, ISO 14001, OHSAS18001, API 6D, API 6DSS, API Spec Q1, APIQR, CE-PED, CE-ATEX, EN 14141, IEC 61508**. We are an approved manufacturer with over 100 major oil and gas companies.

We comply and meet the most stringent customers' requirements for the qualification of our products through extensive testing, such as firesafe, low temperature down to -125°C, fugitive emission, endurance, high pressure gas, TAT and others, QC inspection at our supply sources and 100% incoming inspection for all components and materials arriving to our plant.

We have extensive coverage and representation in the global markets through our **sales agent network in over 35 locations worldwide and growing**.

MIR VALVE aspires to **deliver on-time world-class quality products** managed by a highly experienced management team, continued investment, customer focus and continuous alignment to the dynamics driving the global markets.

WE LISTEN AND LEARN FROM OUR CUSTOMERS, EMPLOYEES AND EXPERIENCE

Malaysia Operations, Shah Alam, Kuala Lumpur, 140,000 sq.ft.



INDUSTRIES AND APPLICATIONS

OUR VALVES ARE SUITABLE FOR ONSHORE, OFFSHORE AND SUBSEA APPLICATIONS

INDUSTRIES	APPLICATIONS	
<ul style="list-style-type: none"> • Oil & Gas • Exploration & Production • Pipelines & Processing Plants • Refining & Petrochemical • LNG • Power • Metering and Gate Stations • FPSO & Shipbuilding • Onshore Receiving Terminals 	<ul style="list-style-type: none"> • Blow-down • ESD • Riser • Isolation • Control • HIPPS 	<ul style="list-style-type: none"> • Subsea • High Temp. $\geq +200^{\circ}\text{C}$ • Low Temp. down to -125°C (DT) • Sequencing service • Abrasive fluids
	<ul style="list-style-type: none"> • Upstream/Midstream/Downstream 	

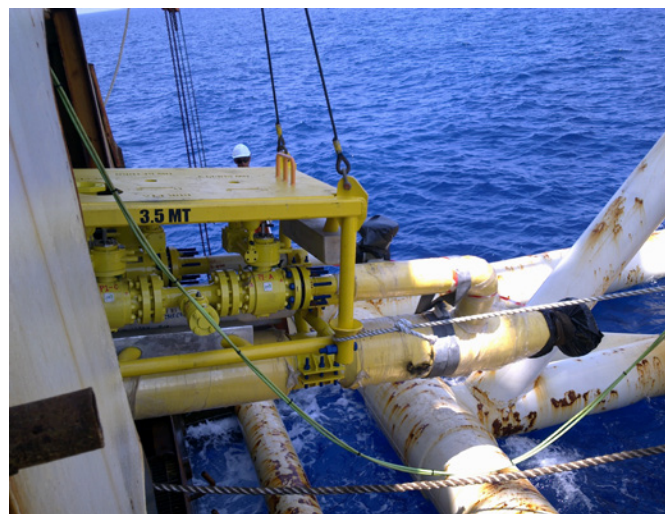
ONSHORE



OFFSHORE



SUBSEA



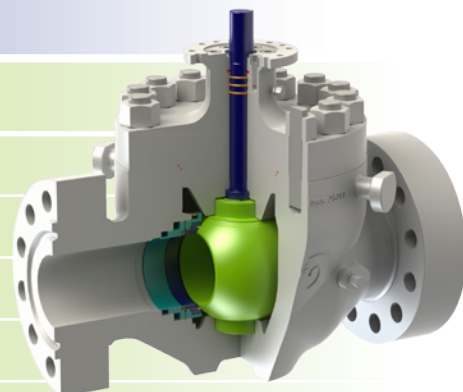
API 6D BALL VALVES
MV1-MV3-MV5

PRODUCT RANGE MV1 - MV3 - MV5



MV1 TOP-ENTRY BALL VALVE

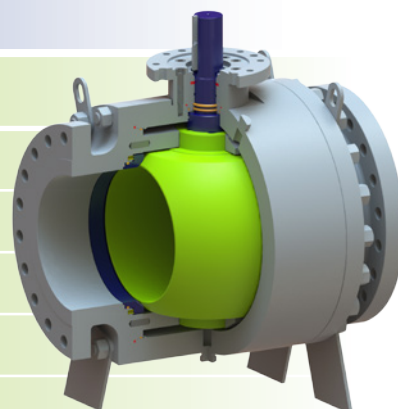
SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500
Standard	2"-60"	2"-48"	2"-36"	2"-16"
Low temp. down to -125°C (DT)	2"-60"	2"-48"	2"-36"	2"-16"
Subsea	2"-60"	2"-48"	2"-36"	2"-16"
Underground	2"-60"	2"-48"	2"-36"	2"-16"
High temp. +220°C to +400°C (DT)	2"-36"	2"-36"	2"-24"	2"-12"



Other sizes and pressure classes available upon request

MV3 SIDE-ENTRY BALL VALVE

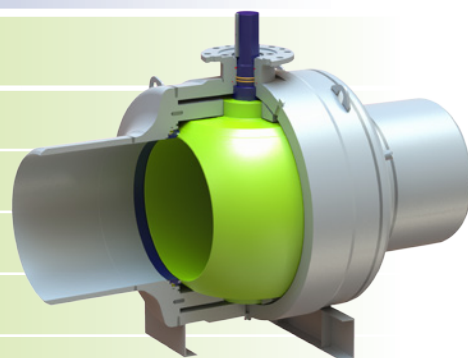
SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500
Standard	2"-60"	2"-48"	2"-36"	2"-16"
Low temp. down to -125°C (DT)	2"-60"	2"-48"	2"-36"	2"-16"
Subsea	2"-60"	2"-48"	2"-36"	2"-16"
Underground	2"-60"	2"-48"	2"-36"	2"-16"
High temp. +220°C to +400°C (DT)	2"-36"	2"-36"	2"-24"	2"-12"



Other sizes and pressure classes available upon request

MV5 FULLY-WELDED BALL VALVE

SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500
Standard	2"-60"	2"-48"	2"-36"	2"-16"
Low temp. down to -125°C (DT)	2"-60"	2"-48"	2"-36"	2"-16"
Subsea	2"-60"	2"-48"	2"-36"	2"-16"
Underground	2"-60"	2"-48"	2"-36"	2"-16"
High temp. +220°C to +400°C (DT)	2"-36"	2"-36"	2"-24"	2"-12"



Other sizes and pressure classes available upon request

DESIGN FEATURES

DESIGN FEATURES	MV1	MV3	MV5
	TOP-ENTRY BALL VALVE	SIDE-ENTRY BALL VALVE	FULLY-WELDED BALL VALVE
› API 6D Design and Construction	STANDARD	STANDARD	STANDARD
› Face-To-Face Dimensions to API 6D and ANSI B16.10	STANDARD	STANDARD	STANDARD
› Trunnion Mounted	STANDARD	STANDARD	STANDARD
› Independent Stem and Ball	STANDARD	STANDARD	STANDARD
› Floating Seats	STANDARD	STANDARD	STANDARD
› Soft Seat Insert	STANDARD	STANDARD	STANDARD
› Primary Metal – Secondary Soft Seat	OPTIONAL	OPTIONAL	OPTIONAL
› Metal-To-Metal Seats	OPTIONAL	OPTIONAL	OPTIONAL
› O-Ring Type Seals	STANDARD	STANDARD	STANDARD
› Polymeric Lip-Seals	OPTIONAL	OPTIONAL	OPTIONAL
› Self-Relieving Seats (SR)	STANDARD	STANDARD	STANDARD
› Double Isolation and Bleed (DIB-1)(Double Piston Effect)(DPE Seats)	OPTIONAL	OPTIONAL	OPTIONAL
› Double Isolation and Bleed (DIB-2)(Dual Seat)(SR+DPE)	OPTIONAL	OPTIONAL	OPTIONAL
› Double Block & Bleed (DBB)	OPTIONAL	OPTIONAL	OPTIONAL
› Full or Reduced Bore	AS REQUESTED	AS REQUESTED	AS REQUESTED
› Flanged Ends / Welded Ends / Hub Ends	AS REQUESTED	AS REQUESTED	AS REQUESTED
› Transition Pups For Welded Ends Valves	OPTIONAL	OPTIONAL	OPTIONAL
› Antistatic Device	STANDARD	STANDARD	STANDARD
› Anti Blowout Stem	STANDARD	STANDARD	STANDARD
› Double Body Barrier	STANDARD	STANDARD	STANDARD
› Triple Stem Barrier	STANDARD	STANDARD	STANDARD
› Vent Plug	STANDARD	STANDARD	STANDARD
› Bleed Valve	OPTIONAL	OPTIONAL	OPTIONAL
› Drain Plug	STANDARD	STANDARD	STANDARD
› Stem Injection Fitting	STANDARD	STANDARD	STANDARD
› Seat Injection Fitting	OPTIONAL	OPTIONAL	OPTIONAL
› Seat Pocket Overlay	OPTIONAL	OPTIONAL	OPTIONAL
› Seal Areas Overlay	OPTIONAL	OPTIONAL	OPTIONAL
› Wetted Parts Overlay	OPTIONAL	OPTIONAL	OPTIONAL
› Body Internal Lining	OPTIONAL	OPTIONAL	N/A
› Extended Stem for Underground Installation	OPTIONAL	OPTIONAL	OPTIONAL
› Extended Bonnet for Low or High Temperature	OPTIONAL	OPTIONAL	OPTIONAL
› Locking Device	OPTIONAL	OPTIONAL	OPTIONAL
› Lifting Lugs/Valve Support	STANDARD	STANDARD	STANDARD
› Manual or Actuated Operation	AS REQUESTED	AS REQUESTED	AS REQUESTED
› Firesafe Design	STANDARD	STANDARD	STANDARD
› In-Line Maintenance	YES	NO	NO
› On-Site Maintenance	YES	YES	YES (FOR STEM SEALS ONLY)



16" to 36" CL. 150 to 900, CS+ENP+500 pups, Peek Insert, c/w Pneumatic / G00 Actuator
Onshore Malaysia

API 6D BALL VALVES

MV1-MV3-MV5

MV1 TOP-ENTRY BALL VALVE



BENEFITS OF THE TOP-ENTRY DESIGN

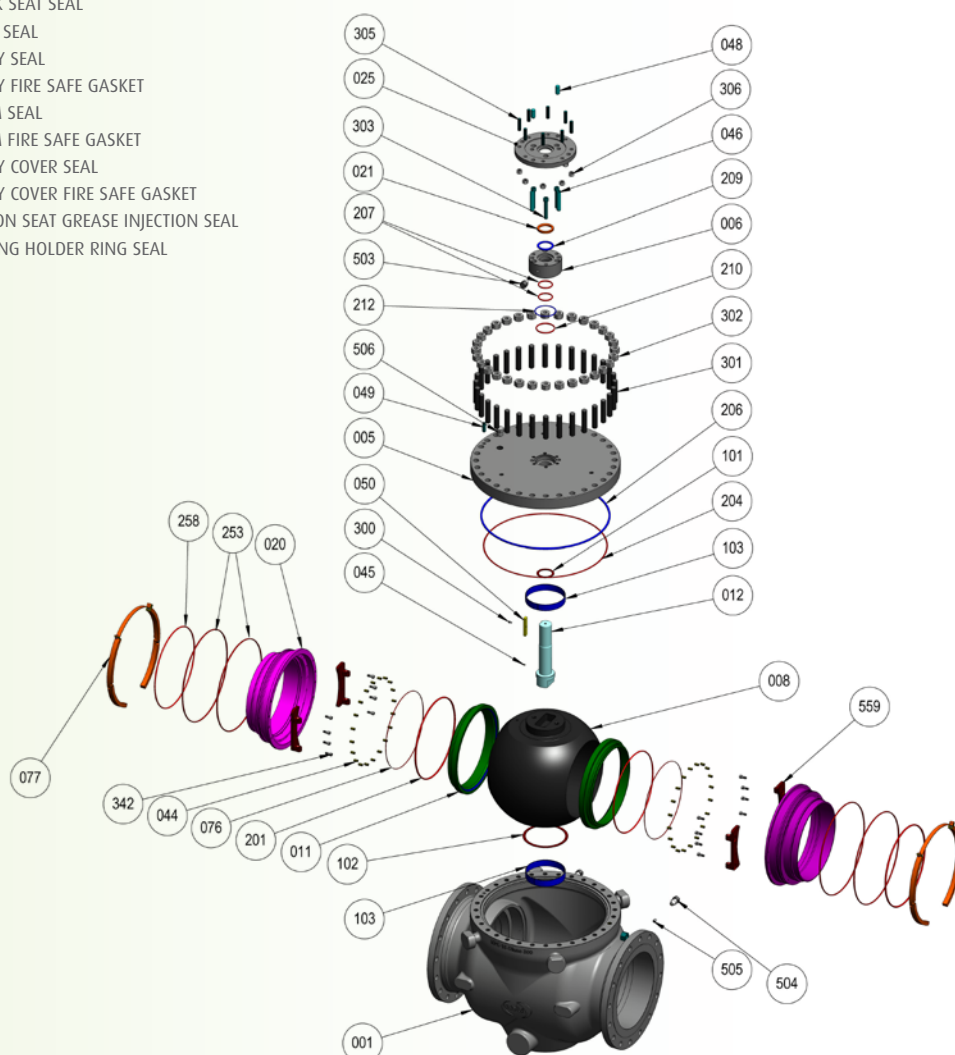
- › **Full in-line maintenance** in vertical or horizontal position. The bolted construction allows disassembly on site for inspections and possible repairs. Clearing the bonnet off the valve allows free access to the ball and the seats, which can simultaneously be taken out with special maintenance tools.
- › **Reduced number of potential leak paths.**
- › After maintenance, the valve can be **fully retested without pipeline pressure** (for DIB-1 Valves) (DPE Valves).
- › Sized to **withstand external loads from the pipeline** even when the bonnet, the ball and the seats are removed for maintenance.
- › Can be welded directly onto the pipeline assembly.
- › Available for all industries and applications.

BILL OF MATERIALS

001	BODY
005	BONNET
006	BODY COVER
008	BALL
011	SEAT RING w/INSERT
012	STEM
020	SPRING HOLDER RING
021	SPACER RING
025	OPERATOR FLANGE
044	SEAT SPRING
045	ANTI STATIC DEVICE
046	DOWEL PIN
048	OPERATOR FLANGE PIN
049	BONNET PIN
050	STEM KEY
076	BACK SEAT SEAL
077	SPACER
101	STEM WASHER
102	TRUNNION WASHER
103	LOW FRICTION BEARING
201	SEAT SEAL
204	BODY SEAL
206	BODY FIRE SAFE GASKET
207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY COVER FIRE SAFE GASKET
253	PISTON SEAT GREASE INJECTION SEAL
258	SPRING HOLDER RING SEAL
300	STEM KEY CAPSCREW
301	BODY STUD
302	BODY NUT
303	BODY COVER BOLT
305	OPERATOR FLANGE STUD
306	GEAR MOUNTING NUT
342	SEAT PLATE BOLT
503	STEM GREASE FITTING
504	SEAT GREASE FITTING
505	CHECK VALVE
506	SAFETY RELIEF VALVE
559	SEAT PLATE

RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

076	BACK SEAT SEAL
201	SEAT SEAL
204	BODY SEAL
206	BODY FIRE SAFE GASKET
207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY COVER FIRE SAFE GASKET
253	PISTON SEAT GREASE INJECTION SEAL
258	SPRING HOLDER RING SEAL



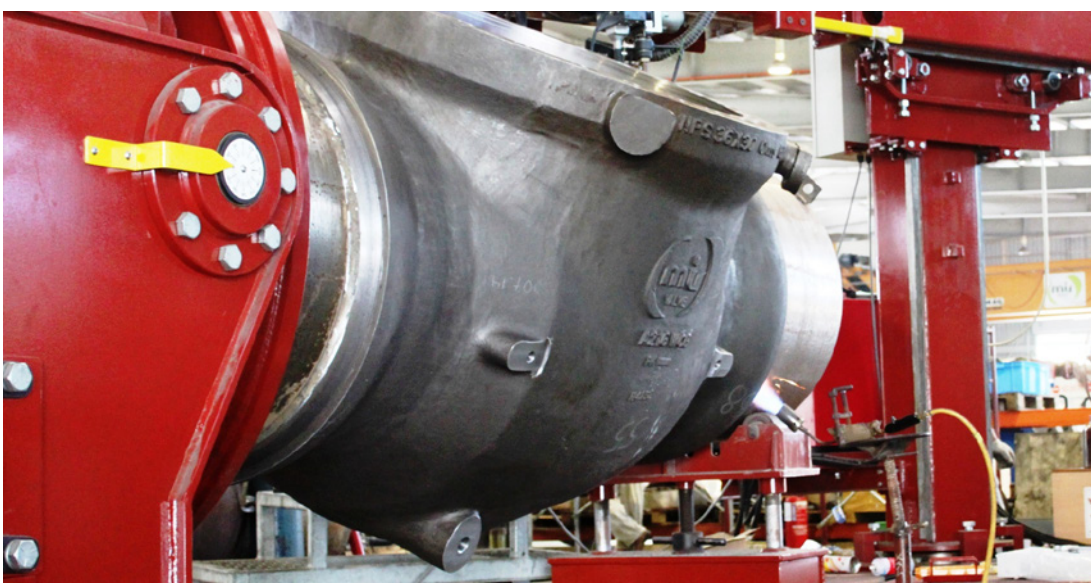
MV1 TOP-ENTRY BALL VALVE



6" to 18" CL. 600
c/w Hydraulic Actuator,
fugitive emission testing,
high-pressure gas testing
to MESC Spec.
Onshore Oman



2" to 12" CL. 900
forged body
gear+ROV, MESC Spec.
hyperbaric testing
Subsea Malaysia



Welding of pup pieces
on top-entry ball valve

API 6D BALL VALVES
MV1-MV3-MV5

MV3 SIDE-ENTRY BALL VALVE



BENEFITS OF THE SIDE-ENTRY DESIGN

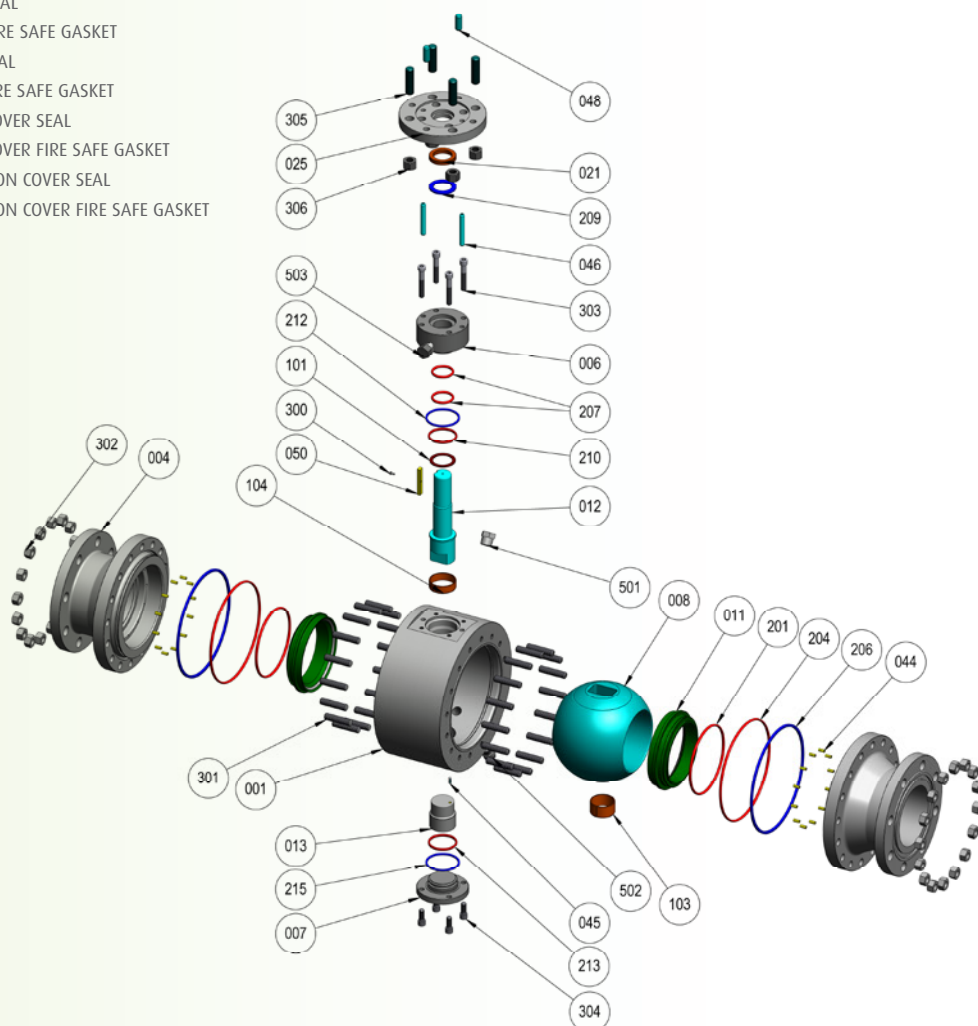
- › Most **common and popular design** as it can be easily **removed from the pipeline** for maintenance due to bolted design.
- › **Most competitive design** of all the ball valves in terms of cost and delivery.
- › The split body construction allows the use of forged materials in various grades of CS, SS and high alloys, thus **suitable for the most severe service conditions**.
- › **Large inventory** of parts kept available in-house.
- › Available for **short delivery** 16 weeks or less.
- › Available for all industries and applications.

BILL OF MATERIALS

001	BODY
004	CLOSURE
006	BODY COVER
007	TRUNNION COVER
008	BALL
011	SEAT RING w/ INSERT
012	STEM
013	TRUNNION
021	SPACER RING
025	OPERATOR FLANGE
044	SEAT SPRING
045	ANTI STATIC DEVICE
046	DOWEL PIN
048	OPERATOR FLANGE PIN
050	STEM KEY
101	STEM WASHER
103	LOW FRICTION BEARING
104	LOW FRICTION STEM BEARING
201	SEAT SEAL
204	BODY SEAL
206	BODY FIRE SAFE GASKET
207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY COVER FIRE SAFE GASKET
213	TRUNNION COVER SEAL
215	TRUNNION COVER FIRE SAFE GASKET
300	STEM KEY CAPSCREW
301	BODY STUD
302	BODY NUT
303	BODY COVER BOLT
304	TRUNNION COVER BOLT
305	OPERATOR MOUNTING STUD
306	OPERATOR MOUNTING NUT
501	VENT PLUG
502	BLEED VALVE
503	STEM GREASE FITTING

RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

201	SEAT SEAL
204	BODY SEAL
206	BODY FIRE SAFE GASKET
207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY COVER FIRE SAFE GASKET
213	TRUNNION COVER SEAL
215	TRUNNION COVER FIRE SAFE GASKET



≥12" USING BEARING RETAINER

MV3 SIDE-ENTRY BALL VALVE



9



16" CL. 300, Australia

16" CL. 1500 full duplex, metal-seated +150 μ TCC, PMI
High-pressure gas testing as per API 598
Offshore Malaysia



24" CL. 900, Total specification
Extensive high-pressure hydro and gas testing
Onshore Myanmar



API 6D BALL VALVES
MV1-MV3-MV5

MV5 FULLY-WELDED BALL VALVE



BENEFITS OF THE FULLY-WELDED DESIGN

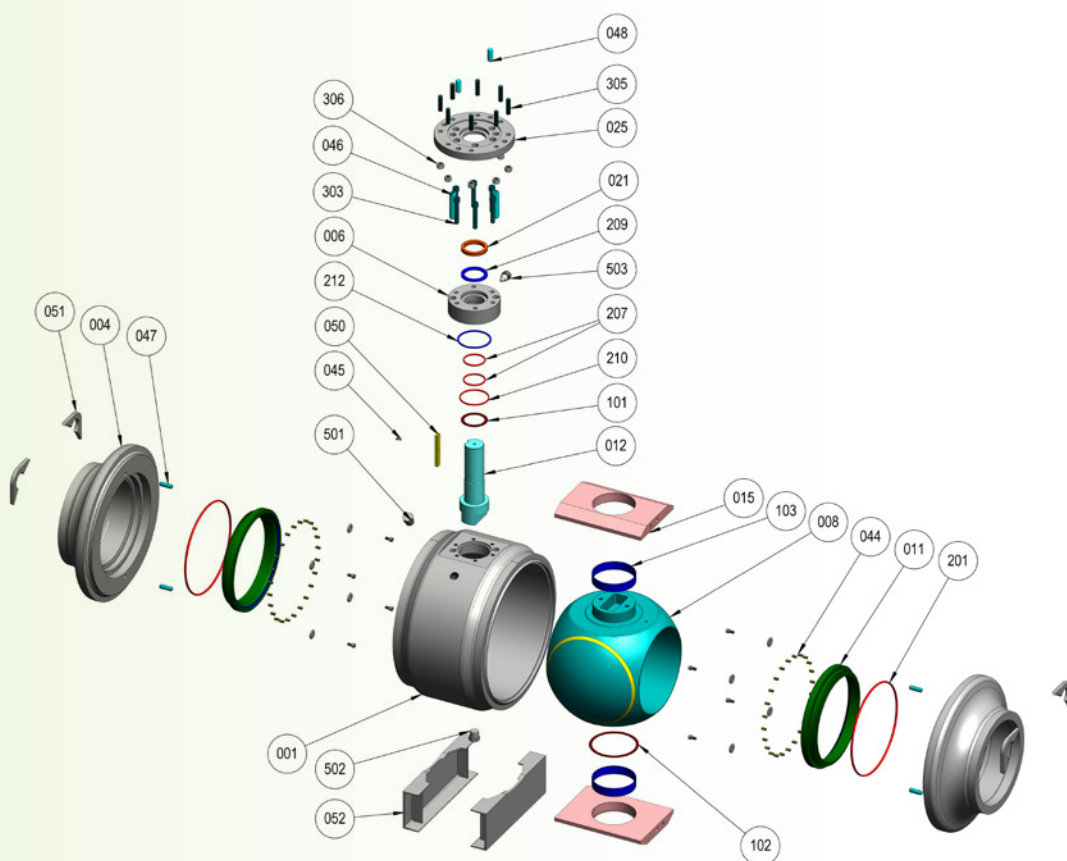
- › 3-piece design welded body **reduces the number of potential leak paths.**
- › Allows for **reduction in weight**, especially if the welded end version is selected.
- › The split body construction allows the use of forge materials in the various grades of CS, SS and high alloys, thus **suitable for the most severe service conditions.**
- › **Compact design** available with weld end/weld end connections.
- › Alternative option to the side-entry bolted body.
- › **Typically used on gas** transmission pipeline.
- › Available for all industries and applications.

BILL OF MATERIALS

001	BODY
004	CLOSURE
006	BODY COVER
008	BALL
011	SEAT RING w/INSERT
012	STEM
015	BEARING RETAINER
021	SPACER RING
025	OPERATOR FLANGE
044	SEAT SPRING
045	ANTI STATIC DEVICE
046	DOWEL PIN
047	BEARING RETAINER PIN
048	OPERATOR FLANGE PIN
050	STEM KEY
051	LIFTING LUG
052	VALVE SUPPORT
101	STEM WASHER
102	TRUNNION WASHER
103	LOW FRICTION BEARING
201	SEAT SEAL
207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY FIRE SAFE GASKET
303	BODY COVER BOLT
305	OPERATOR MOUNTING STUD
306	GEAR MOUNTING NUT
501	VENT PLUG
502	DRAIN PLUG
503	STEM GREASE FITTING

RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

207	STEM SEAL
209	STEM FIRE SAFE GASKET
210	BODY COVER SEAL
212	BODY FIRE SAFE GASKET



MV5 FULLY-WELDED BALL VALVE



11



8"-16", 20", 28" CL. 300-900 CS/SS
Onshore UAE

12", 16", 20", 30" CL. 600 FB/RB
CS+ENP+500 mm. pups
c/w Gas Over Oil Actuator
Onshore Malaysia



API 6D BALL VALVES

MV1-MV3-MV5

SPECIAL SERVICES AND APPLICATIONS



SUBSEA BALL VALVES

- › Additional environmental sealing at body to closure and body to stem
- › CRA overlay on sealing or process wetted areas
- › ROV interface to API 17H/ISO 13628-8 (optional)
- › More stringent requirements for material selection
- › Advanced inspection and testing requirements (i.e. hyperbaric testing, cycling)



MV1-SS Top-Entry Subsea Ball Valves to MESC Spec., Trunnion-mounted ball, 12", 4"x3", 3"x2", 2"x1.5" CL. 900, Welded ends + pup pieces
Metal seated + TCC, Soft seated + ENP on ball and seats, Self-relieving seats
Body & bonnet: Forged, Low Temp. CS, Inc. 625; Trim: F51 Duplex, Inc. 625 + TCC, A694 F60 + ENP 0.025 mm, Cladding: Inc. 625 on all wetted areas, NACE 0175
Subsea gear + ROV CL.2 Interface; High pressure hydro and gas shell and seat test, Hyperbaric test at 120m water depth; Subsea Malaysia 100m water depth

LOW TEMPERATURE VALVES DOWN TO -125°C (DESIGN TEMP)

- › Extended bonnet with vapor space to maintain the stem packing within the suitable temperature range.
- › Low friction coating on seating for smoother operation
- › Fugitive emission (FE) compliance
- › More stringent requirements for material selection
- › Supplementary inspection and testing (i.e. FE, Low temperature testing)

HIGH TEMPERATURE VALVES +220°C TO +400°C (DESIGN TEMP)

- › Extended bonnet
- › Metal and graphite seals
- › Inherently firesafe design
- › Adjustable stem packing with live load for easy maintenance which guarantees performance throughout the operational life
- › Advanced selection of hard facing technologies suitable for various services

METAL-SEATED BALL VALVES

- › Suitable for severe service (dirty, abrasive), high temperature (+220°C to +400°C), low maintenance (subsea, underground), high demand (frequent cycling)
- › Hard facing on ball and seats (ENP, TCC, CCC)
- › Higher torque, more robust topwork design, more powerful actuator
- › Longer life cycle, low maintenance, low spare parts consumption
- › Leakage rates to API 598 or ISO 5208:1993, Rates A, B

CLADDED BALL VALVES

- › Suitable for sour service, harsh and hostile environment, low maintenance
- › Corrosion resistant, long life, high reliability
- › Overlay in Inconel 625 or Stainless Steel, mostly applied on Carbon Steel base material
- › Cladding options: dynamic seal areas, all sealing areas, all wetted areas (fully clad)
- › Final overlay thickness of 3 mm min.

DESIGN SPECIFICATIONS

DESIGN STANDARDS

DESIGN	BODY THICKNESS	BOLTING	FACE-TO-FACE DIMENSIONS	DRIVE TRAIN SIZING (MAST)	FIRESAFE
API 6D/ISO 14313 API 6DSS/ISO 14723 Customer Specifications (Shell, Total, Exxonmobil and other customer specs)	ASME VIII-1, VIII-2 ASME B16.34	ASME VIII-1, VIII-2 ASME B16.34	API 6D/ISO 14313 API 6DSS/ISO 14723 ANSI B16.10	ASME VIII-1, VIII-2	ISO 10497/API 607 API 6FA
OTHERS	Materials: ASME II-D Flanges: ASME B16.5	NDT: ASME V Weld ends: B16.25	Welding: ASME IX Gas pipeline: ISO 14141	Sour service: NACE MR-0175/ISO 15156	

MATERIAL SPECIFICATIONS

BODY	BALL/SEATS	STEM	SEATING/SEALS	BOLTING
CARBON STEEL › A105 › WCB › LCC › LF2 › LF3 STAINLESS STEEL › 316 › 321 › 347 DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS › Inconel › Monel TITANIUM OTHERS	CARBON STEEL › A105 › LF2 › LF3 › F60/F65 STAINLESS STEEL › 316 › 321 › 347 › 13 Cr › 13 Cr4Ni › 17-4PH › Nitronic DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS › Inconel › Incoloy › Monel › Stellite TITANIUM OTHERS	CARBON STEEL › 4140 › LF3 STAINLESS STEEL › 316 › 13 Cr › 13 Cr4Ni › 17-4PH › Nitronic DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS › Inconel › Monel TITANIUM OTHERS	SOFT SEATING › RPTFE › NYLON › PEEK › FKM › HNBR › FFKM › PCTFE METAL SEATING › TCC › ENP › CCC › Ni-SiC › Graphite	CARBON STEEL › B7/2H › L7/7 › B7M/2HM › L7M/7M › L43 STAINLESS STEEL › B8/8 › B8M/8M › 660 DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS › Inconel TITANIUM OTHERS

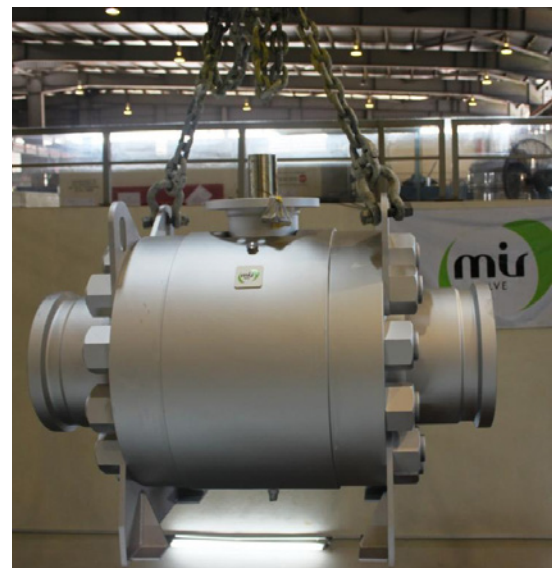
COATING

ENP	Electroless Nickel Plating (25μ, 75μ)
TCC	Tungsten Carbide Coating (150μ, 200μ, 400μ)
CCC	Chrome Carbide Coating (150μ, 200μ)
Weld Overlay	AISI 316 / 316L, ALLOY 625
Stellite	Gr. 6, Gr. 12
Ni-SiC	Nickel-Silicon Carbide Plating (25μ, 50μ)

SEALING

O-Rings	Lip-Seals
-46°C / +200°C	-196°C / +220°C
Metal/Graphoil Gasket & Stem Extension	Lip-Seals & Stem Extension
Over +220°C	Below -101°C

Estimate temperatures as per the recommendation of the seal manufacturer.
Seal selection is based on a combination of criteria and is not limited to temperature only.



MV3 Side-Entry Ball Valve 16"x14" CL.2500 HUB ENDS,
Full Superduplex, Gas Tested, Offshore Malaysia

API 6D BALL VALVES

MV1-MV3-MV5

TESTING CAPABILITY



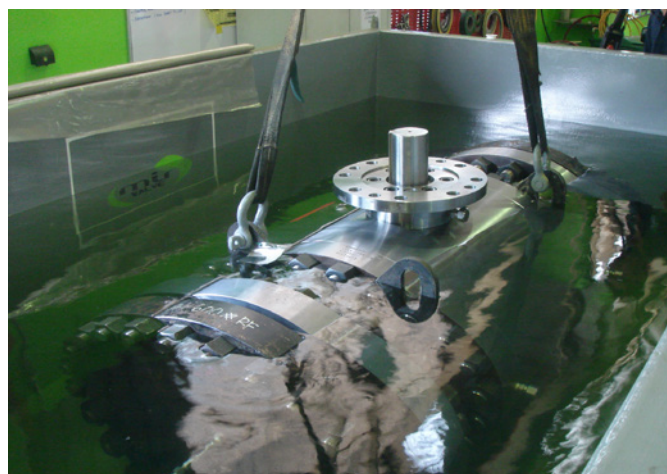
AS PER DESIGN STANDARDS AND CUSTOMER REQUIREMENTS

STANDARD TESTS	ADDITIONAL TESTS (UPON REQUEST)	QUALITY ASSURANCE CERTIFICATION
<ul style="list-style-type: none"> › Hydrostatic Body Test › Hydrostatic Seat Test › Low Pressure Air Seat Test › Cavity Safety Relief Test › Functional Test › Anti-static Device Test 	<ul style="list-style-type: none"> › Torque Test › Endurance Test (cycling) › Drift Tool Test › Double Isolation and Bleed Test (DIB-1, DIB-2) › DB&B Test › High Pressure Gas Test › Fugitive Emission Test acc. to ISO15848 or MESC SPE 77/312 › Low Temperature Test acc. to MESC SPE 77/306 › TAT Testing to MESC 77/300A › Firesafe Testing › Hyperbaric Test › Others as per customer requirements 	<ul style="list-style-type: none"> › API 6D for Ball Valves › API 6DSS for Subsea Ball Valves › CE-PED 97/23/EC › CE-ATEX 94/9/EC › Firesafe ISO 10497/API 607 › ISO 9001/API Q1/API QR1 › Achilles JQS Certificate of Qualification › IEC 61508 (up to SIL 3) › ISO/IEC 17025 › Shell 2 STAR Certificate

High-pressure gas testing



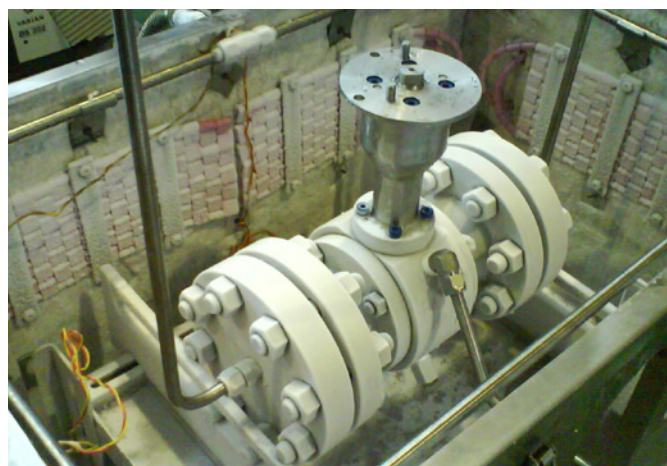
Submerged water testing



Fugitive emission testing



Low temperature testing



MV4 TWIN BALL VALVE (DBB)

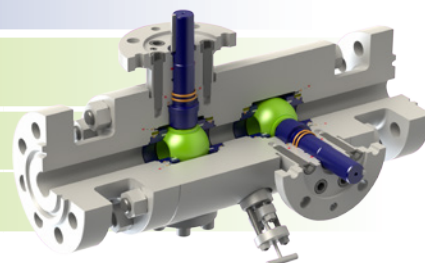
BENEFITS OF THE DBB DESIGN

- › Space and weight saving
- › Flanged or flangeless design
- › Cost saving (product and installation)
- › Reduced number of potential leak paths
- › Increased line structural integrity
- › More reliable system
- › Manual and/or actuated configuration
- › Available for all industries and applications



MV4 TWIN BALL VALVE (DBB)

SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500
Standard	3/4"-24"	3/4"-24"	3/4"-20"	3/4"-12"
Subsea	3/4"-24"	3/4"-24"	3/4"-20"	3/4"-12"



Other sizes and pressure classes available upon request.

DESIGN FEATURES

› Trunnion Mounted	STANDARD	› Anti Blowout Stem	STANDARD
› Independent Stem and Ball	STANDARD	› Double Body Barrier	STANDARD
› Floating Seats	STANDARD	› Triple Stem Barrier	STANDARD
› Soft Seat Insert	STANDARD	› Vent Plug	STANDARD
› Primary Metal – Secondary Soft Seat	OPTIONAL	› Bleed Valve	STANDARD
› Metal-To-Metal Seats	OPTIONAL	› Stem Injection Fitting	OPTIONAL
› O-Ring Type Seals	STANDARD	› Seat Injection Fitting	OPTIONAL
› Polymeric Lip-seals	OPTIONAL	› Seat Pocket Overlay	OPTIONAL
› Self-Relieving Seats	STANDARD	› Seal Areas Overlay	OPTIONAL
› Double Block & Bleed (DBB)	STANDARD	› Wetted Parts Overlay	OPTIONAL
› Double Isolation and Bleed (DIB-2)	OPTIONAL	› Body Internal Lining	OPTIONAL
› Full or Reduced Bore	AS REQUESTED	› Locking Device	OPTIONAL
› Flanged Ends / Welded Ends / Hub Ends	AS REQUESTED	› Lifting Lugs/Valve Support	STANDARD
› Transition Pups For Welded Ends Valves	OPTIONAL	› Manual or Actuated Operation	AS REQUESTED
› Antistatic Device	STANDARD	› Firesafe Design	STANDARD

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Find your local MIR Sales Representative at www.mirvalve.com

MIR VALVE SDN. BHD.
HQ & Plant Malaysia

Lot 3-4, Jalan Tanjung Keramat 26/35, Seksyen 26
 40400 Shah Alam, Selangor Darul Ehsan, MALAYSIA
 Tel: +603-51025000 - Fax: +603-51025100
 Email: info@mirvalve.com

www.mirvalve.com

MIR VALVE KOREA
Sales Office Seoul, Korea

#202, Jamsil-Daewoo-Lake-World,
 298, Seokchonhosu-ro
 Songpa-gu, Seoul, Korea
 Tel: +82 (0)2 417 9201
 Fax: +82 (0)2 412 9202
 Email: michael.kang@mirvalve.com

미코밸브주식회사
 서울시 송파구 석촌호수로 298
 잠실대우레이크월드 202호

PT MIR INDONESIA
Sales Office Jakarta, Indonesia

Alamanda Tower 25th floor Suite M08-M09,
 Jl. T.B. Simatupang Kav.23-24
 Jakarta 12430 INDONESIA
 Tel: +62 21 2965 7908 / 2965 7834
 Fax: +62 21 2965 7836 / 2965 7840
 Email: info-id@mirvalve.com

MIR UAE
Sales Office Dubai, UAE

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