



MV7-F GATE VALVE FORGED BODY

MV7-P
GATE VALVE
FABRICATED BODY



MV7-C GATE VALVE CAST BODY

API 6D THROUGH-CONDUIT GATE VALVES

COMPANY PROFILE



ONE BRAND ∞ INFINITE TRUST

MIR VALVE is a top-tier manufacturer offering the complete range of **ball**, **gate and swing check valves** serving the international oil & gas, petrochemical, refining and power industry. Since 2008, we have manufactured **13,000 MIR ball and gate valves** which are today **in service** in **onshore**, **offshore and subsea** installations worldwide. Our technology and quality are proven in service.

We employ 150 staff worldwide; our **HQ and plant** are located in **Kuala Lumpur** (Shah Alam, Malaysia) and we have **sales offices in Miri, Jakarta, Seoul, Shanghai, Dubai** and a **Rep office** in **Milan**.

Our Quality Management System and products are certified to all standards including ISO 9001, ISO 14001, OHSAS 18001, API 6D, API 6DSS, API 6A, API 17D, API Spec Q1, API QR, CE-PED, CE-ATEX, EN 14141, IEC 61508. We are an approved manufacturer with most of all major oil and gas companies.

We comply and meet the most stringent customer requirements for the qualification of our products through extensive testing, such as firesafe, low temperature and cryogenic down to -196°C, high temperature up to 500°C, fugitive emission, endurance, high pressure gas, TAT and others. We perform 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 and rep network in over 30 locations worldwide** and growing, and are **culturally in-tune with all markets.**

Managed by a highly experienced management team, with continued investment, customer focus and continuous alignment to the dynamics driving the global markets, **MIR VALVE delivers world-class quality products.**

WE LISTEN AND LEARN FROM OUR CUSTOMERS, EMPLOYEES AND EXPERIENCE.





6D • API 6DSS • API 6A • API 17D • BALL VALVES • TOP-ENTRY • SIDE-ENTRY • FULLY-WELDED • THROUGH-CO RATURE • ESDV • SIL • HIPPS • ONSHORE • OFFSHORE • SUBSEA • KUALA LUMPUR • MIRI • JAKARTA • SEOUL • DUBA -ENTRY • SIDE-ENTRY • FULLY-WELDED • THROUGH-CONDUIT GATE VALVES • DBB BALL VALVES • CRYOGENIC • HIPE EA • KUALA LUMPUR • MIRI • JAKARTA • SEOUL • DUBAI • MILAN • API 6D • API 6DSS • API 6A • API 17D • BALL VALVES JIT GATE VALVES • DBB BALL VALVES • CRYOGENIC • HIGH TEMPERATURE • ESDV • SIL • HIPPS • ONSHORE • OFFSHOR N • API 6D • API 6DSS • API 6A • API 17D • BALL VALVES • TOP-ENTRY • SIDE-ENTRY • FULLY-WELDED • THROUGH-CONDITION • SIDE-ENTRY • SIDE-ENTRY • FULLY-WELDED • THROUGH-CONDITION • SIDE-ENTRY • SIDE

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INDUSTRIES AND APPLICATIONS



OUR BALL VALVES ARE SUITABLE FOR ONSHORE, OFFSHORE AND SUBSEA APPLICATIONS

INDUSTRIES

- · Oil & Gas
- Exploration & Production
- Oil and Gas Transmission Pipelines
- Gas Processing Plants
- Refining & Petrochemical
- · LNG/LPG/GTL Facilities
- Power Plants
- Gas Metering and Regulating Gate Stations
- FPSO & Shipbuilding
- Onshore Receiving Terminals
- Compressors and Pump Stations
- Storage and tank farms

APPLICATIONS

- Blow-down
- ESD
- Riser
- $\bullet \ Isolation$
- Subsea (API 6DSS)
- High Temperature <500°C
- Low Temperature down to -50°C
 Abrasive fluids

UPSTREAM/MIDSTREAM/DOWNSTREAM

ONSHORE



OFFSHORE



SUBSEA



PRODUCT RANGE MV7-P · MV7-F · MV7-C



MV7-P GATE VALVE - FABRICATED BODY

SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500	1
Standard (above and below ground)	6"-60"	upon request	N/A	N/A	
Subsea	N/A	N/A	N/A	N/A	
Low Temperature (-50° C)	N/A	N/A	N/A	N/A	IL
High Temperature (<500° C)	N/A	N/A	N/A	N/A	

This body construction is typically used as **standard** services and applications. It is the **most popular design** due to competitive cost and fast delivery.

MV7-F GATE VALVE - FORGED BODY

SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500	at
Standard (above and below ground)	2″-20″	2″-20″	2″-20″	2″-16″	0
Subsea	2″-20″	2"-20"	2″-20″	2″-16″	
Low Temperature (-50° C)	2″-20″	2″-20″	2″-20″	2″-16″	
High Temperature (<500° C)	2″-20″	2"-20"	2″-20″	2"-12"	

This body construction is ideal for high pressure as well as special services and applications (low or high temperature and subsea).

MV7-C GATE VALVE - CAST BODY

SERVICE	ASME CL. 150-600	ASME CL. 900	ASME CL. 1500	ASME CL. 2500	
Standard (above and below ground)	2″-60″	2"-48"	2″-36″	2″-16″	Mar Ac.
Subsea	2"-48"	2″-36″	2"-24"	2″-16″	
Low Temperature (-50° C)	2″-24″	2"-24"	2"-24"	2″-16″	
High Temperature (<500° C)	2"-24"	2"-24"	2"-20"	2"-12"	

This body construction is typically used for high pressure as well as special services and applications (low or high temperature and subsea).

Other sizes and pressure classes available upon request

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DESIGN FEATURES



DESIGN FEATURES	MV7-P GATE VALVE FABRICATED BODY	MV7-F GATE VALVE FORGED BODY	MV7-C GATE VALVE CAST BODY
› API 6D Design and Construction	STANDARD	STANDARD	STANDARD
> Face-To-Face Dimensions to API 6D and ASME B16.10	STANDARD	STANDARD	STANDARD
› Independent Stem and Obturator (Slab)	STANDARD	STANDARD	STANDARD
› Floating Seats	STANDARD	STANDARD	STANDARD
› Primary Metal Secondary Soft	STANDARD	STANDARD	STANDARD
› Metal-To-Metal Seats	OPTIONAL	OPTIONAL	OPTIONAL
› O-Ring Type Seals	STANDARD	STANDARD	STANDARD
› Polymeric Lip-Seals	N/A	OPTIONAL	OPTIONAL
› Self-Relieving Seats	STANDARD	STANDARD	STANDARD
> 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
› Stem Backseat (API 6D)	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	N/A	OPTIONAL	OPTIONAL
› Lifting Lugs/Valve Support	STANDARD	STANDARD	STANDARD
› Manual or Actuated Operation	AS REQUESTED	AS REQUESTED	AS REQUESTED
› Firesafe Design	STANDARD	STANDARD	STANDARD
› Normal Acting	STANDARD	STANDARD	STANDARD
› Reverse Acting	OPTIONAL	OPTIONAL	OPTIONAL
› Rising Stem Design	STANDARD	STANDARD	STANDARD
› Gate Skirt	N/A	OPTIONAL	OPTIONAL
› In-Line Maintenance	YES	YES	YES
→ On-Site Disassembly for Repairs and Maintenance	YES	YES	YES

MV7-P GATE VALVE - FABRICATED BODY



FEATURES OF THE FABRICATED BODY DESIGN

- > This body construction is typically used for **standard** services and applications; it is a proven and established design.
- > It is the most popular design due to competitive cost and fast delivery.
- > Designed for CL 150-300-600 range. Higher pressures available upon request.
- > Full in-line maintenance; the bolted top-entry construction allows disassembly on site for inspections and repairs or replacement of internal parts.
- > The flat sealing surfaces between the slab and the seats guarantee a more reliable bubble-tight shut-off for both soft and metal seats ensuring a longer life cycle in service.
- > Designed and manufactured to withstand external loads from the pipeline to prevent any deformation of the body when the internal parts are fully removed for repairs and new parts are installed.
- > Can be welded directly into the pipeline.

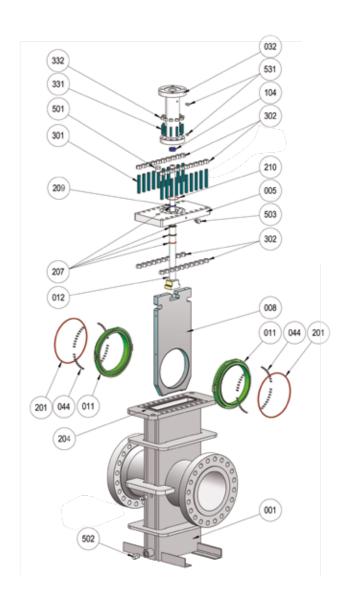
BILL OF MATERIALS

RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

209 STEM FIRE SAFE GASKET

001	BODY	201	SEAT SEAL
005	BONNET		BODY SEAL
800	GATE		STEM SEAL
011	SEAT	209	STEM FIRE S
012	STEM		
032	YOKE		
044	SPRING		
104	STEM BEARING		
201	SEAT SEAL		
204	BODY SEAL		
207	STEM SEAL		
209	STEM FIRE SAFE GASKET		
210	BONNET SEAL		
301	BODY STUD		
302	BODY NUT		
331	YOKE STUD		
332	YOKE NUT		
501	VENT FITTING		
502	BLEED FITTING		
503	STEM GREASE FITTING		
531	EXTENSION VENT		

This body construction is typically used for standard services and applications. It is the most popular design due to competitive cost and fast delivery.



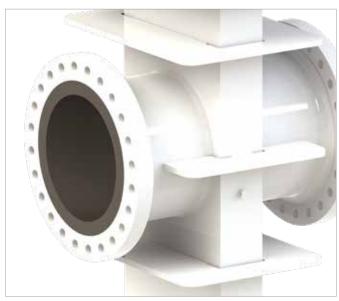
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MV7-P GATE VALVE - FABRICATED BODY









MV7-F GATE VALVE - FORGED BODY



FEATURES OF THE FORGED BODY DESIGN

- > This body construction is selected for **high pressure** designs CL. 900-1500-2500; typical services and applications would be for **low or high temperature and subsea**, or where customers specify this type of material. We manufacture up to 20" sizes.
- > **Full in-line maintenance**; the bolted top-entry construction allows disassembly on site for inspections and repairs or replacement of internal parts.
- The **flat sealing surfaces** between the slab and the seats guarantee a more reliable **bubble-tight shut-off** for both soft and metal seats ensuring a longer life cycle in service.
- > Designed and manufactured to **withstand external loads from the pipeline** to prevent any deformation of the body when the internal parts are fully removed for repairs and new parts are installed.
- > Can be welded directly into the pipeline

BILL OF MATERIALS RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

001	BODY	104	STEM BEARING
800	GATE	201	SEAT SEAL
011	SEAT	204	BODY SEAL

012 STEM 209 STEM FIRE SAFE GASKET

022 LATERN 238 PACKING

023 PACKING FLANGE

025 OPERATOR FLANGE

032 YOKE 044 SPRING

065 SKIRT

104 STEM BEARING

201 SEAT SEAL

204 BODY SEAL

209 STEM FIRE SAFE GASKET

238 PACKING

301 BODY STUD

302 BODY NUT

305 OPERATOR MOUNTING STUD

310 STUD

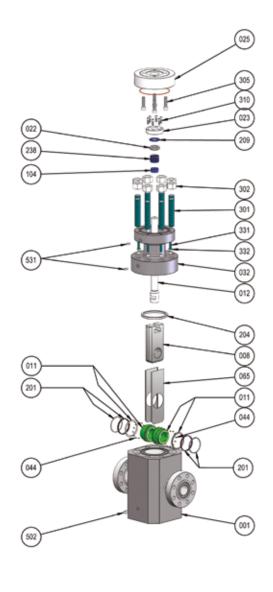
331 YOKE STUD

332 YOKE NUT

502 BLEED FITTING

531 EXTENSION VENT

This body construction is ideal for high pressure as well as special services and applications (low or high temperature and subsea). It has size limitations, but it offers the highest quality of material and is available in a wider range of materials.



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MV7-F GATE VALVE - FORGED BODY









MV7-C GATE VALVE - CAST BODY



FEATURES OF THE CAST BODY DESIGN

- > This body construction is selected for **high pressure** designs CL. 900-1500-2500; typical services and applications would be for low or high temperature and subsea. Usually, this body design is specified by the customer in their specifications as their design preference.
- > Full in-line maintenance; the bolted top-entry construction allows disassembly on site for inspections and repairs or replacement of internal parts.
- > The flat sealing surfaces between the slab and the seats guarantee a more reliable bubble-tight shut-off for both soft and metal seats ensuring a longer life cycle in service.
- > Designed and manufactured to withstand external loads from the pipeline to prevent any deformation of the body when the internal parts are fully removed for repairs and new parts are installed.
- > Can be welded directly into the pipeline.

BILL OF MATERIALS RECOMMENDED SPARE PARTS FOR START-UP AND MAINTENANCE

001	BODY	201	SEAT SEAL
005	BONNET	204	BODY SEAL

008 209 STEM FIRE SAFE GASKET

207 STEM SEAL SFAT 011

032 YOKE 044 **SPRING** 051 LIFTING LUG

012

201 SEAT SEAL 204 BODY SEAL

207 STEM SEAL

209 STEM FIRE SAFE GASKET

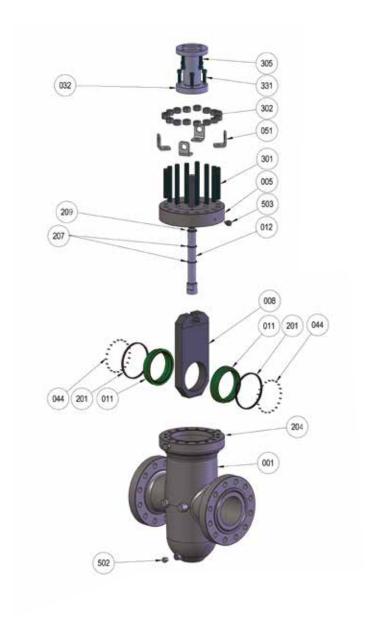
BODY STUD 301 **BODY NUT** 302

OPERATOR MOUNTING STUD 305

EXTENSION STUD BLEED FITTING STEM GREASE FITTING

502

This body construction is typically used for high pressure as well as special services and applications (low or high temperature and subsea)



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MV7-C GATE VALVE - CAST BODY









SPECIAL GATE VALVES



12 SUBSEA GATE VALVES

KEY DESIGN CHANGES FROM TOPSIDE TO SUBSEA

- Additional environmental sealing at body to bonnet and body to stem
- > CRA overlay on sealing or process wetted areas
- > ROV interface to API 17H/ISO13628-8 (optional)
- More stringent requirements for material selection
- Advanced inspection and testing requirements (i.e. hyperbaric testing, cycling)
- > Cast or forged body construction



MV7-F-SS Subsea Forged Gate Valve 10" CL.300 RTJ Forged Body LTCS with SS weld overlay on all wetted parts, Duplex trim, TCC hardfacing, lipseals High pressure gas testing, 35m depth, Malaysia

LOW TEMPERATURE GATE VALVES (-50° C)

KEY DESIGN CHANGES FROM STANDARD TO LOW TEMPERATURE

- > Stem packing within the suitable temperature range
- > More stringent requirements for material selection
- Supplementary inspection and testing (i.e. Fugitive Emission (FE), Low temperature testing)
- > Cast or forged body construction

HIGH TEMPERATURE GATE VALVES (<500° C)

KEY DESIGN CHANGES FROM STANDARD TO HIGH TEMPERATURE

- > Metal and graphite seals
- > Inherently firesafe design
- Advanced selection of hard facing technologies suitable for various services
- > Bellow seat design
- > Cast or forged body construction

COMPACT GATE VALVES (MV7-CP)

FEATURES OF THE COMPACT DESIGN

- Fabricated design for standard low pressure applications
- 16"-60" CL. 150-300 in CS body and CS/SS trim
- Compact design for cost, space and weight saving
- RF or WE connection
- Primary Metal Secondary Soft Seat, bubble-tight, zero leakage



Compact Gate Valves (MV7-CP)

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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	ASME VIII-1, VIII-2 ASME B16.34	ASME VIII-1, VIII-2 ASME B16.34	API 6D/ISO 14313 API 6DSS/ISO 14723 ASME B16.10	ASME VIII-1, VIII-2	ISO 10497/API 607 API 6FA
OTHERS	Materials: ASME II-D Weld ends: B16.25	NDT: ASME V Gas pipeline: EN 14141	Welding: ASME IX	Sour service: NACE MR-I Flanges: ASME B16.5 - A	,

MATERIAL SPECIFICATIONS

BODY	SLAB/SEATS	STEM	SEATING/SEALS	BOLTING
CARBON STEEL > A105 > WCB > LCC > LF2 > LF3 > EN 10028 S355 > A516 Gr.70 > F60/F65 STAINLESS STEEL > 316 > 321 > 347 DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS > Incoloy > Monel TITANIUM OTHERS	CARBON STEEL > A105 > LF2 > LF3 > F60/F65 > EN 10028 S355 > A516 Gr.70 STAINLESS STEEL > 316 > 321 > 347 > 13Cr > 13Cr > 13Cr4Ni > 17-4PH > Nitronic DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS > Inconel > Incoloy > Monel TITANIUM OTHERS	CARBON STEEL > 4140 > LF3 STAINLESS STEEL > 316 > 13Cr > 13Cr4Ni > 17-4PH > Nitronic DUPLEX SS SUPERDUPLEX SS NICKEL ALLOYS > Inconel > Monel TITANIUM OTHERS	SOFT SEATING > FKM > HNBR > FFKM METAL SEATING > ENP > TCC > CCC > Ni-SiC	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 > Zinc > PFTE > HDG (Hot Dip Galvanizing)

COATING

Electroless Nickel Plating (25μ, 75μ) Nickel-Silicon Carbide Plating (25μ, 50μ) Tungsten Carbide Coating (150μ, 200μ, 400μ) **ENP** Ni-SiC TCC Chrome Carbide Coating (150µ) ccc

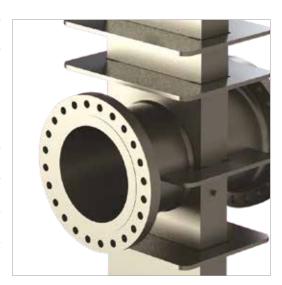
AISI 316/316L, ALLOY 625 Gr. 6, Gr. 12 Weld Overlay

Stellite

SEALING

O-Rings	Lip-Seals	Metal/Graphoil/Gasket
-46°C /+200°C	-196°C /+220°C	Over +220°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.



TESTING CAPABILITY



4 AS PER DESIGN STANDARDS AND CUSTOMER REQUIREMENTS

STANDARD TESTS

- > Hydrostatic Body Test
- > Stem Backseat Test
- > Hydrostatic Seat Test
- > Low Pressure Air Seat Test
- > Functional Test

ALL STANDARD AND SPECIAL TESTS ARE PERFORMED IN HOUSE (Except for hyperbaric test which is subcontracted nearby our plant)

SPECIAL TESTS (UPON REQUEST)

- > Stall Test
- > Endurance Test (cycling)
- > Cavity Relief Test
- > Drift Tool Test
- > DB&B Test
- › High Pressure Gas Test
- > Fugitive Emission Test acc.to ISO15848 or MESC SPE 77/312
- > Low Temperature Test
- > High Temperature Test
- > Firesafe Test
- > Hyperbaric Test
- Others as per customer requirements

QUALITY ASSURANCE / CERTIFICATION

- > API 6D for Gate Valves
- > API 6DSS for Subsea Gate Valves
- > Firesafe ISO 10497/API 607
- > ISO 9001/API Q1
- > ISO/IEC 17025



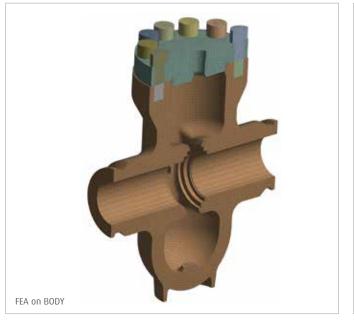


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STRESS ANALYSIS USING FINITE ELEMENT (FEA)



MIR VALVE uses ANSYS software for the modeling for final element analysis (FEA) of our product, simulation, and the interaction between the pressure controlling components.









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

MIR VALVE SDN. BHD. Kuala Lumpur HQ & Plant

Lot 3-4, Jalan Tanjung Keramat 26/35, Seksyen 26,40400 Shah Alam, Selangor D.E. Malaysia

Tel: +603 5102 5000 Fax: +603 5102 5100 Email: info@mirvalve.com

www.mirvalve.com

EAST MALAYSIA Miri Sales Office sales-miri@mirvalve.com

T: +6085 421801

INDONESIA

Jakarta Sales Office info-id@mirvalve.com T: +6221 80641014

SOUTH KOREA

Seoul Sales Office info-mirkorea@mirvalve.com T: +82 (0)2 417 9201

CHINA Shanghai Sales Office info-mirchina@mirvalve.com T: +86 21 6121 0701

MIDDLE EAST **Dubai Sales Office** info-miruae@mirvalve.com T: +971 50 1616392

ITALY Milan Rep Office info-miritaly@mirvalve.com T: +39 02 0069 4587