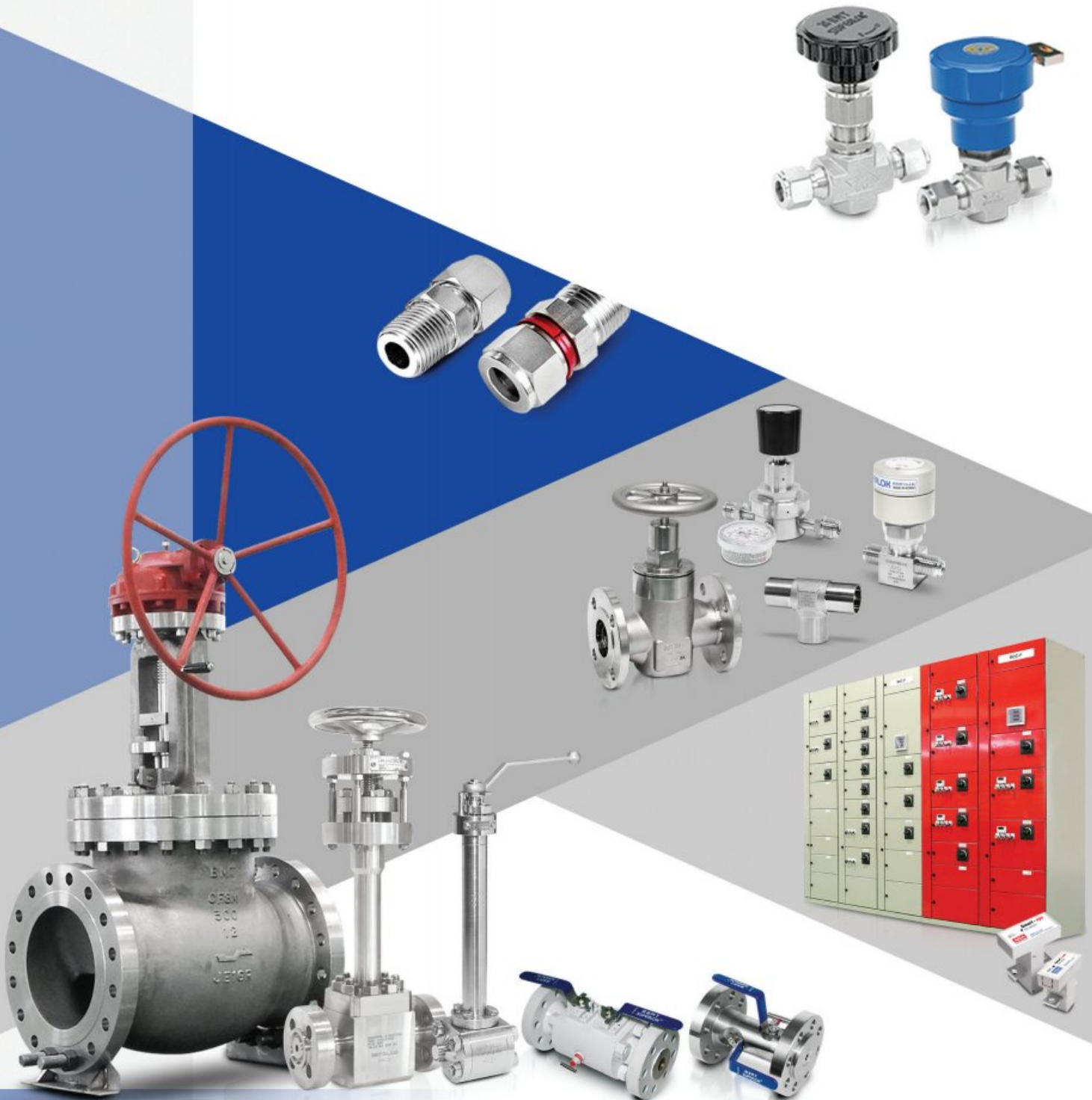


BMT Company Profile



SUPERLOK®

BMT Co., Ltd.
www.superlok.com

Fittings & Valves



PROCESS VALVE



INSTRUMENTATION
FITTING & VALVE



ULTRA HIGH PURITY
FITTING & VALVE



Electric & Energy



SWITCHBOARD



DISTRIBUTION BOARD
& MCPD



ENERGY
MANAGEMENT SOLUTION



BMT Co., Ltd. BUSINESSES

PROUDLY MADE IN KOREA

www.superlok.com

System Certificates (as of September 2020)



Product (Type Approval) Certificates (as of September 2020)

PRODUCT/TYPE	DESCRIPTION/AUTHORITY
Cryogenic Ball Valves	BV (1/2", 1", 2", 2-1/2", 3", 4", 6", 10") / DNV-GL (1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 4", 6", 10") / LR (1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6", 10") / KR (1/2", 1", 2", 4")
Cryogenic Block&Bleed Valves	DNV-GL (1/2"), KR (1/2")
Cryogenic Needle Valves	BV (1/2"), KR (1/2", 3/4", 1"), ABS (1/2")
Cryogenic Globe Valves	BV (1/2", 2", 2-1/2", 4", 6", 8") / DNV-GL (1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4", 6", 8", 10", 12") / LR (1/2", 3/4", 1", 1-1/2", 2", 4", 6", 8") / KR (1/2", 3/4", 2", 3", 10", 12")
Cryogenic Gate Valves	KR (2", 10")
Cryogenic Check Valves	KR (1/2", 2", 10")
Flanged Ball (SBVE) Valves	LR (3/4")
Tube Fittings	SUPERLOK Tube Fittings (BV / DNV-GL / NK / LR) / Bite Type Tube Fittings (DNV-GL / NK / LR) / SAE 37° Flared Tube Fittings (DNV-GL)
CNG (ECE Regulation 110) Components	SUPERLOK Tube Fittings, High Pressure Ball/Check Valves, Trunnion Ball Valves, Receptacles, Filters
EC Type Approval of a Hydrogen Component	SUPERLOK Tube Fittings
CRN (Canadian Registration Number)	Ball/Needle Valves, Thread Fittings, Flanges

NOC/IOC Vendor Registration (as of Mar 2021)

Qatar Petroleum (QP)
Petrobras
Chevron
ExxonMobil
Abu Dhabi National Oil Company (ADNOC)*
Petroleum Development Oman (PDO)
ORPIC (Oman Refinery Company)
Kuwait National Petroleum Company (KNPC)
Kuwait Oil Company (KOC)
National Iranian Gas Company (NIGC)
National Iranian Oil Engineering & Construction Co. (NIOEC)
NIOC (National Iranian Oil Company)
NPC (National Petrochemical Company)
PT. PERTAMINA (LIMITED) RU Cilacap
SABIC (Saudi Basic Industries Corporation)
Iran Gas Engineering and development co. (IGEDC)
Iranian Central Oil Field Co. (ICOFC)
Iranian Offshore Oil Co. (IOOC)

* For subsidiary companies: ADGAS, ADMA-OPCO, BOROUGE, FERTIL, TAKREER, ZADCO

Major Milestones

2019	Listed as an official supplier of UHP products for SAMSUNG Electronics
2018	Listed as an official supplier of: Cryogenic valves for SHI, HHI, and DSME; and UHP products for SK Hynix and LG Display
2016	World Class 300 Company Designation (Small/Medium Business Administration of S.Korea)
2015	Presidential Citation for Venture Vitalization (President of S.Korea)
2013	2nd Factory was established
2012	UHP Division was started up Cryogenic Valves were launched
2011	i-Fitting & Process Valve series were launched Partnership with Schneider Electric for Distribution Boards
2009	HQ and Factory (1st) were moved to Yangsan
2008	Tin Tower Order of Industrial Service Merit (President of S.Korea)
2007	Listed on KOSDAQ market
2005	BMT R&D Center was established Electric & Energy Division was started up
1988	Gyeong Pung Machinery Co. (current BMT Co., Ltd.) was founded

INDUSTRIAL VALVES

CRYOGENIC BALL VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 1/2 to 14 in.

Working Pressure : Class 150 to 2500

Temperature : down to -320°F (-196°C)

CRYOGENIC DBB VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 1/2 to 4 in.

Working Pressure : Class 150 to 2500

Temperature : down to -320°F (-196°C)

CRYOGENIC NEEDLE VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 1/2 to 1-1/2 in.

Working Pressure : Class 150 to 2500

Temperature : down to -320°F (-196°C)

CRYOGENIC GLOBE VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 1/2 to 14 in.

Working Pressure : Class 150 to 2500

Temperature : down to -320°F (-196°C)

CRYOGENIC GATE VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 2 to 8 in.

Working Pressure : Class 150 to 300

Temperature : down to -320°F (-196°C)

CRYOGENIC CHECK VALVES



■ APPLICATIONS

Cryogenic liquids such as liquefied oxygen, nitrogen, argon

■ SPECIFICATIONS

Size : 1 to 14 in.

Working Pressure : Class 150 to 300

Temperature : down to -320°F (-196°C)

BALL VALVES (FLOATING/TRUNNION MOUNTED)



■ APPLICATIONS

Hydraulic system, Chemical / Petrochemical, Oil and Gas production

■ SPECIFICATIONS

Size : 1/2 to 24 in.

Working Pressure : Class 150 to 2500

Temperature : -51 to 500°F (-46 to 260°C)

up to 842°F (450°C) with metal seat

BLOCK & BLEED VALVES



■ APPLICATIONS

Process piping isolation points, Direct mount to instruments, Vents and drains

■ SPECIFICATIONS

Size : 1/2 to 16 in.

Working Pressure : Class 150 to 2500

Temperature : -51 to 500°F (-46 to 260°C)

up to 842°F (450°C) with metal seat

GLOBE VALVES



■ APPLICATIONS

Hydraulic system, Chemical/Petrochemical, Oil & Gas production

■ SPECIFICATIONS

Size : 1/2 to 16 in.

Working Pressure : Class 150 to 2500

Temperature : -49 to 842°F (-45 to 450°C)

SAE FLANGED BALL VALVES (SBVE)



■ APPLICATIONS

Hydraulic system

■ SPECIFICATIONS

Size : 1/2 to 5 in.

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -4 to 392°F (-20 to 200°C)

BALL VALVES (SBV 120H)



■ APPLICATIONS

Instrument air line

■ SPECIFICATIONS

Size : 1/16 to 3/4 in., 3 to 12 mm

Working Pressure : up to 3000 psi (206 bar)@100°F (38°C)

Temperature : 50 to 150°F (10 to 66°C)

BALL VALVES (SBV 210)



■ APPLICATIONS

Instrument air line

■ SPECIFICATIONS

Size : 1/4 to 1 in., 6 to 16 mm

Working Pressure : up to 1000 psi (69 bar)@100°F (38°C)

Temperature : 0 to 450°F (-17 to 232°C) with PTFE seat

BALL VALVES (SBVH 360)



■ APPLICATIONS

High pressure Instrument system, Hydraulic system

■ SPECIFICATIONS

Size : 1/4 to 1 in., 6 to 25 mm

Working Pressure : up to 6000 psi (414 bar) @ 100°F (38°C)

Temperature : -65 to 302°F (-54 to 150°C) with PCTFE seat

-65 to 500°F (-54 to 260°C) with PEEK seat

TRUNNION BALL VALVES (BT)



■ APPLICATIONS

Instrument air lines, GAS & CNG industry, Sampling

■ SPECIFICATIONS

Size : 1/8 to 1/2 in., 6 to 12 mm

Working Pressure : up to 10000 psi (689 bar)@100°F (38°C)

Temperature : 0 to 450°F (-17 to 232°C)

SWING-OUT BALL VALVES



■ APPLICATIONS

Instrument air lines, Chemical process, Oil and Gas production

■ SPECIFICATIONS

Size : 1/4 to 2 in.

Working Pressure : up to 3000 psi (206 bar)@100°F (38°C)

Temperature : -20 to 450°F (-29 to 232°C)

KEY OPERATION BALL VALVES



■ APPLICATIONS

Pneumatic system, Instrument system & isolation, General service

■ SPECIFICATIONS

Size : 1/4 to 1 in., 6 to 25 mm

Working Pressure : up to 6000 psi (413 bar) @70°F (21°C)

Temperature : 0 to 450°F (-17 to 232°C) with PTFE seat

INDUSTRIAL VALVES

BALL VALVES TO DIN STANDARD



■ APPLICATIONS

Hydraulic lines

■ SPECIFICATIONS

Size : 4mm to 42mm

Working Pressure : up to 7200 psi (496 bar)@100°F (38°C)

Temperature : -4 to 210°F (-20 to 100°C)

FORGED HIGH PRESSURE BALL VALVES (SBVF 360)



■ APPLICATIONS

High pressure instrument lines, Oil & Gas production

■ SPECIFICATIONS

Size : 1/8 to 3/4 in., 3 to 16 mm

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -65 to 200°F (-54 to 93°C) with PCTFE seat

-65 to 350°F (-54 to 177°C) with PTFE seat

MANIFOLD VALVES



■ APPLICATIONS

Pressure switch, Pressure transmitters, Differential pressure instrumentation

■ SPECIFICATIONS

Size : 1/4 to 1/2 in

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

up to 1200°F (649°C) with Graphite packing

UNION BONNET NEEDLE VALVES (SUNV)



■ APPLICATIONS

High pressure and high temperature services, Severe and corrosive services, Condensate sampling systems

■ SPECIFICATIONS

Size : 1/4 to 1 in., 6 to 25 mm

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

-65 to 600°F (-54 to 315°C) with PEEK packing

up to 1,200°F (649°C) with Graphite packing

INTEGRAL BONNET NEEDLE VALVES (SINV)



■ APPLICATIONS

Instrument isolation, General service, Test valves

■ SPECIFICATIONS

Size : 1/8 to 3/4 in., 3 to 18 mm

Working Pressure : up to 5000 psi (345 bar)@100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

-65 to 600°F (-54 to 315°C) with PEEK packing

INTEGRAL BONNET BAR STOCK NEEDLE VALVES (SBNV)



■ APPLICATIONS

Instrument isolation, General service, Test valves

■ SPECIFICATIONS

Size : 1/8 to 1 in., 6 to 25 mm

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

-65 to 600°F (-54 to 315°C) with PEEK packing

HIGH PRESSURE BAR STOCK NEEDLE VALVES (SHBNV)



■ APPLICATIONS

High pressure service, Instrument isolation

■ SPECIFICATIONS

Size : 1/4 to 1/2 in.

Working Pressure : up to 10000 psi (689 bar) @ 100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

up to 1200°F (649°C) with Graphite packing

INSTRUMENTATION GAUGE VALVES



■ APPLICATIONS

Pressure gauge, Primary isolation

■ SPECIFICATIONS

Size : 1/2 to 3/4 in.

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -65 to 450°F (-54 to 232°C) with PTFE packing

up to 1200°F (649°C) with Graphite packing

CHECK VALVES (SPCV)



APPLICATIONS

Instrument lines, Prevention of reversed flow, Uni-directional flow control

SPECIFICATIONS

Size : 1/8 to 1 in., 6 to 25mm
Working Pressure : up to 3000 psi (206 bar)@100°F (38°C)
Cracking Pressure : 1/3 to 25 psi (0.03 to 1.7 bar)
Temperature : -10 to 375°F (-23 to 191°C) with Viton seal

ADJUSTABLE CHECK VALVES (SACV)



APPLICATIONS

Pressure switch, Pressure transmitters, Differential pressure instrumentation

SPECIFICATIONS

Size : 1/4 to 3/8 in., 6 to 8mm
Working Pressure : up to 3000 psi (206 bar)
Cracking Pressure : 3 to 600 psi (0.2 to 14.3 bar)
Temperature : -10 to 375°F (-23 to 191°C) with Viton seal

ONE-PIECE CHECK VALVES (SOCV)



APPLICATIONS

Pressure switch, Pressure transmitters, Differential pressure instrumentation

SPECIFICATIONS

Size : 1/4 to 3/4 in.
Working Pressure : up to 3000 psi (206 bar)
Cracking Pressure : 1/3 to 25 psi (0.02 to 1.7 bar)
Temperature : -10 to 375°F (-23 to 191°C) with Viton seal

ONE-PIECE ADJUSTABLE CHECK VALVES (SOACV)



APPLICATIONS

Pressure switch, Pressure transmitters, Differential pressure instrumentation

SPECIFICATIONS

Size : 1/4 to 1/2 in.
Working Pressure : up to 3000 psi (206 bar)
Cracking Pressure : 3 to 600 psi (0.2 to 41.3 bar)
Temperature : -10 to 375°F (-23 to 191°C) with Viton seal

HIGH PRESSURE CHECK VALVES (SHCV)



APPLICATIONS

Prevention of reversed flow, High Pressure characteristics

SPECIFICATIONS

Size : 1/8 to 1 in., 6 to 25 mm
Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)
Cracking Pressure : 1/3 to 25 psi (0.03 to 1.7 bar)
Temperature : -10 to 375°F (-23 to 191°C) with Viton seal

HIGH PRESSURE CHECK VALVES (SHPCV)



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic intensifier, Water blasting

SPECIFICATIONS

Size : 1/4 to 1 in.
Working Pressure : up to 60000 psi (4137 bar)
Cracking Pressure : 14 to 26 psi (0.966 to 1.794 bar)
Temperature : -110 to 1200°F (-79 to 649°C) with Metal seat
-50 to 500°F (-45 to 260°C) with O-ring seat

HIGH PRESSURE NEEDLE VALVES (SHNV60)



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic intensifier, Water blasting

SPECIFICATIONS

Size : 1/4 to 1 in.
Working Pressure : up to 60000 psi (4137 bar)
Temperature : 0 to 450°F (-17 to 232°C) with PTFE packing
up to 800°F (427°C) with Graphite packing

HIGH PRESSURE BALL VALVES (SHBV)



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic Intensifier, Water blasting, Test machine

SPECIFICATIONS

Size : 1/8 to 1 in.
Working Pressure : up to 20000 psi (1397 bar)
Temperature : 0 to 400°F (-17.8 to 204°C)

INDUSTRIAL VALVES

PLUG VALVES



■ APPLICATIONS

Control panels, Specialty gas systems, Chemical delivery

■ SPECIFICATIONS

Size : 1/8 to 1/2 in., 6 to 12 mm

Working Pressure : up to 3000 psi (206 bar)@100°F (38°C)

Temperature : -10 to 400°F (-23 to 204°C)

RISING PLUG VALVES



■ APPLICATIONS

Lines containing small solid impurities, Viscous fluids or slurries,
Systems requiring flow regulation and full flow capabilities

■ SPECIFICATIONS

Size : 1/4 to 3/4 in.

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -20 to 400°F (-28 to 204°C)

TOGGLE VALVES



■ APPLICATIONS

Test panels, Purge systems, Rapid open/close systems

■ SPECIFICATIONS

Size : 1/8 to 1/2 in., 3 to 12 mm

Working Pressure : up to 300 psi (20.6 bar)@100°F (38°C)

Temperature : -20 to 200°F (-28 to 93°C)

INDUSTRIAL EXCESS FLOW VALVES



■ APPLICATIONS

Fuel system, Gas system, Hydraulic & Pneumatic system

■ SPECIFICATIONS

Size : 1/8 to 1/2 in., 6 to 12 mm

Working Pressure : up to 6000 psi (414 bar)@100°F (38°C)

Temperature : -10 to 400°F (-23 to 204°C) with Viton seal

BLEED VALVES



■ APPLICATIONS

Venting of instrument system, Hydraulic & Pneumatic system

■ SPECIFICATIONS

Size : 1/8 to 3/4 in.

Working Pressure : 10000 psi (689 bar)@100°F (38°C)

Temperature : -65 to 850°F (-54 to 454°C)

PURGE VALVES



■ APPLICATIONS

Purging of instrument system, Hydraulic & Pneumatic system

■ SPECIFICATIONS

Size : 1/4 to 1/2 in.

Working Pressure : up to 4000 psi (275 bar) @ 100°F (38°C)

Temperature : -65 to 600°F (-54 to 315°C)

RELIEF VALVES (SRVL, SRVH)



■ APPLICATIONS

Overpressure protection

■ SPECIFICATIONS

Size : 1/4 to 1/2 in., 6 to 12 mm

Working Pressure : up to 300 psi (21 bar)@100°F (38°C) for SRVL

up to 6000 psi (414 bar)@100°F (38°C) for SRVH

Opening Pressure : 10 to 250 psi (0.69 to 17.2 bar) for SRVL

225 to 6000 psi (15.5 to 414 bar) for SRVH

Temperature : -10 to 400°F (-23 to 204°C)

MODULAR MOUNTING SYSTEM



■ APPLICATIONS

General pressure and differential pressure measurements

■ SPECIFICATIONS

Manifold (Standard) : 2- and 4-valve

Process/Vent Connection : G 1/4 Female, NPT 1/4 Female

Working Pressure : up to 6000 psi (414 bar) @ 38°C (100°F)

Temperature : up to 200°C (392°F)

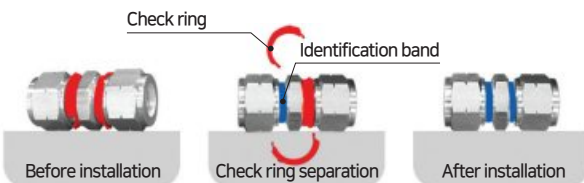
i-Fitting

SUPERLOK Tube Fittings & Valves with i-Fitting



i-Fitting Features

- i-Fitting components include: body, front & back ferrule, nut, identification band, and check ring
- The check ring is essentially a built-in gap gauge, which separates when a fitting is tightened to the point of perfect compression
- Solves over- and under-tightening problems
- Increases installer safety in high pressure and dangerous chemical environments
- Improves productivity and reduces costs
- Industry changing, patented design by BMT



Why i-Fitting is the Right Choice?

PERFECT CONNECTION can be **SEEN, HEARD, FELT** with the **SAFEST** fitting in the market!!

Most tube fitting leaks are caused by improper installation. i-Fittings, developed by BMT, ensures a safe, quick, and precise connection every time.

i-Fittings eliminate errors during installation by incorporating a patented check ring on every fitting. The check rings, which function as a built-in gap gauge, separate as a fitting is tightened to the exact point of perfect compression. This quality control and safety feature indicates that a fitting has been tightened properly and is not easily confused with other fittings on a job that have not been tightened.

Q1 Which one requires more tightening?



Q2 Which one is completely installed from pre-assembly?



SUPERLOK TUBE FITTINGS

SINGLE/DOUBLE FERRULE COMPRESSION TYPE



APPLICATIONS

Research, Analytical and process instrumentation, Oil and gas, Power, Petrochemical, Semiconductor

SPECIFICATIONS

Size : 1/16 to 2 in., 2 to 38 mm

Working Pressure : governed by the pressure rating of tubing

Temperature : -320 to 1200°F (-196 to 649°C)

DIN TUBE FITTINGS (DIN2353 BITE-TYPE)



APPLICATIONS

Hydraulic, Compressed air, Fuel heating, Automotive

SPECIFICATIONS

Size : 4 to 42 mm

Working Pressure : PN 100 bar for LL (Very Light)

PN 315 bar for L (Light)

PN 630 bar for S (Heavy)

Temperature : -76 ~ 752°F (-60 ~ 400°C)

JIS TUBE FITTINGS (JIS B2351 BITE-TYPE)



APPLICATIONS

Hydraulic, Compressed air, Fuel heating, Automotive

SPECIFICATIONS

Size : 1/8 to 1-1/2 in., 4 to 50 mm

Working Pressure : up to 7250 psi (500 bar)

Temperature : -76 ~ 752°F (-60 ~ 400°C)

INDUSTRIAL FITTINGS

37° FLARED TUBE FITTINGS TO SAE J514



APPLICATIONS

Hydraulic system

SPECIFICATIONS

Size : 1/8 to 2 in., 2 to 50 mm

Working Pressure : 8700 psi (600 bar)@100°F (38°C) with O-Ring
5000 psi (345 bar)@100°F (38°C) without O-Ring

Temperature : up to 800°F (427°C)

HIGH PRESSURE FITTINGS



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic intensifier, Water blasting, Test stands

SPECIFICATIONS

Size : 1/4 to 1 in.

Working Pressure : up to 60000 psi (4137 bar)

Temperature : -423 to 1200°F (-252 to 649°C)

O-RING FACE SEAL FITTINGS



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic intensifier, Water blasting, Test stands

SPECIFICATIONS

Size : 1/8 to 1 in.

Working Pressure : up to 13000 psi (910 bar) @ 100°F (38°C)

Temperature : up to 550°F (287°C)

INSTRUMENTATION THREAD FITTINGS



APPLICATIONS

Process, power, instrumentation and general plumbing

SPECIFICATIONS

Size : 1/8 to 1 in.

Working Pressure : 10000 psi (689 bar)@100°F (38°C)

Temperature : -320 to 1000°F (-196 to 537°C)

FORGED FITTINGS



APPLICATIONS

Hydraulic, Compressed air, Fuel heating, Automotive applications

SPECIFICATIONS

Size : up to 4 in.

Working Pressure : 2000, 3000, 6000, 9000 lbs

Temperature : up to 1000°F (538°C)

DIELECTRIC FITTINGS



APPLICATIONS

Isolation of monitoring instruments from the effects of electric current

SPECIFICATIONS

Size : 6 to 12 mm

Working Pressure : up to 5000 psi (206 bar)

Temperature : -40 to 200°F (-40 to 93°C)

Electrical Resistance of Insulators : 10 × 106 Ω at 10 V (dc) at 70°F (20°C)

PUSH-ON HOSE FITTINGS



APPLICATIONS

Air break system, Air conditioning system, Automotive applications

SPECIFICATIONS

Size : 6 to 25 mm

Working Pressure : up to 350 psi (24 bar)@100°F (38°C)

Temperature : -40 to 212°F (-40 to 100°C)

PRE-FORMING FITTINGS

BMT developed & patented medium-pressure tube fittings



APPLICATIONS

Suitable for applications requiring: higher pressure, excellent corrosion-resistance, special metals and alloys, and/or heavy-wall tubing

SPECIFICATIONS

Size : 1/4 to 1 in., 6 to 25 mm

Working Pressure : up to 20000 psi (1380 bar)

Temperature : -423 to 1200°F (-252 to 649°C)

Material : Titanium, Super Duplex, Alloy C-276/400/20, 316 Stainless Steel

OTHER INDUSTRIAL PRODUCTS

BREAK AWAY COUPLINGS



■ APPLICATIONS

Emergency disconnect, safe transfer of media (including liquefied gases)

■ SPECIFICATIONS

Working Pressure: up to 362.5 psi (25 bar)

Temperature: Down to -321°F (-196°C)

Breaking Force : 13 KN

MICRON FILTERS (SIF, STF)



■ APPLICATIONS

Protection of instrument system

■ SPECIFICATIONS

Working Pressure : up to 3000 psi (207 bar)@70°F (21°C) for SIF (In-line)

up to 6000 psi (414 bar)@70°F (21°C) for STF (Tee)

Temperature : -20 to 900°F (-29 to 482°C) for SIF (In-line)

-40 to 250°F (-40 to 121°C) for STF (Tee)

Filtering Range : 0.5 to 90 Micron

HYDRAULIC FLANGES



■ APPLICATIONS

High pressure hydraulic system

■ SPECIFICATIONS

Working Pressure : up to 6000 psi (413 bar)

Temperature : -20 to 1000°F (-29 to 538°C)

VACUUM CLAMPS & ISO-KF COMPONENTS



■ APPLICATIONS

Vacuum system

■ SPECIFICATIONS

Vacuum rated to 1×10^{-9} Torr

Leak rating : 1×10^{-9} std cc/s

INSTRUMENTATION QUICK CONNECTORS



■ APPLICATIONS

All types of instruments, Control panels, Hydraulic and Pneumatic system, Test stands, Gas supply system

■ SPECIFICATIONS

Working Pressure : 3000 psi (207 bar)@100°F (38°C)

Temperature : 400°F (204°C) with VITON

HYDRAULIC QUICK COUPLINGS



■ APPLICATIONS

Easy connection/disconnection in hydraulic systems, general industrial applications

■ SPECIFICATIONS

Working Pressure : 5000 psi (345 bar)@100°F (38°C)

Temperature : -15 to 400°F (-26 to 204°C)

Maximum Working Temperature : 400°F (204°C) with VITON

TUBING



■ APPLICATIONS

A variety of analytical and process instrumentation applications

■ SPECIFICATIONS

Type : Seamless Coiled/Straight Tubing, Pre-insulated Tubing

Size : 1/8 to 2 in., 3 to 25 mm

FLEXIBLE METAL HOSES



■ APPLICATIONS

High vibration, Misalignment, Piping works for expansion, Movable equipment

■ SPECIFICATIONS

Pressure Rating : up to 1600 psi (110 bar)@100°F (38°C)

Temperature : -325 to 800°F (-200 to 426°C)

SWAGING UNITS



■ APPLICATIONS

Flaring, Cutting ring assembly & Ferrule swaging

■ SPECIFICATIONS

Tube Diameter Range (OD) : Maximum 42mm for Metric Tube

Maximum 2" for Fractional Tube

TUBE BENDERS



■ APPLICATIONS

Tube bending

■ SPECIFICATIONS

Tube Diameter Range (OD) : 1/4 to 1/2 in.

UHP PRODUCTS

WELD & METAL SEAL FITTINGS



Size : 1/8 to 1 in.
Working Pressure : governed by the pressure rating of tubing
Temperature : up to 1000°F (537°C)
Grades : BA, EP

BEND FITTINGS



Size : Pipe 8 to 550A, Tube 1/4 to 6 in.
Working Pressure : governed by the pressure rating of tubing
Temperature : up to 1000°F (537°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (DV1)

LOW PRESSURE · MANUAL · STANDARD



Size (Cv) : 1/4 to 3/4 in. (0.3 to 0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (DV2)

LOW PRESSURE · MANUAL · FORGED



Size (Cv) : 1/4 to 3/4 in. (0.3 to 0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (PDV1)

LOW PRESSURE · PNEUMATIC · STANDARD



Size (Cv) : 1/4 to 3/4 in. (0.3 to 0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (SODV1)

LOW PRESSURE · MANUAL · SHUT-OFF



Size (Cv) : 1/4" to 3/4" (0.3 to 0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (BDV1)

LOW PRESSURE · MANUAL · BLOCK



Size (Cv) : 1/4 in. (0.3), 1/2 in. (0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (PBDV1)

LOW PRESSURE · PNEUMATIC · BLOCK



Size (Cv) : 1/4 in. (0.3), 1/2 in. (0.7)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (HFDV1)

LOW PRESSURE · MANUAL · HIGH FLOW



Size (Cv) : 1 in. (3.5)
Working Pressure : up to 270 psi (18.6 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (HDV1)

HIGH PRESSURE · MANUAL · STANDARD



Size (Cv) : 1/4 in. (0.1), 1/2 in. (0.27)
Working Pressure : up to 3045 psi (210 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

DIAPHRAGM VALVES (HPDV1)

HIGH PRESSURE · PNEUMATIC · STANDARD



Size (Cv) : 1/4 in. (0.1), 1/2 in. (0.27)
Working Pressure : up to 3045 psi (210 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

BELLOWS VALVES (BV1)

LOW PRESSURE · MANUAL · STANDARD



Size (Cv) : 1/4 to 3/4 in. (0.36 to 2.6)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

BELLOWS VALVES (PBV1)

LOW PRESSURE · PNEUMATIC · STANDARD



Size (Cv) : 1/4 to 1/2 in. (0.36 to 1.1)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 302°F (-10 to 150°C)
Grades : AP, MP, BA, EP

BELLOWS VALVES (BV2)

LOW PRESSURE · MANUAL · FORGED



Size (Cv) : 1 to 2 in. (4.1 to 16), 15 to 50A (2.9 to 21)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

BELLOWS VALVES (PBV2)

LOW PRESSURE · PNEUMATIC · FORGED



Size (Cv) : 3/4 to 2 in. (2.9 to 16), 15 to 50A (2.9 to 21)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

BELLOWS VALVES (BV3)

LOW PRESSURE · MANUAL · CASTING



Size (Cv) : 65 to 550A (81 to 3400)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

CHECK VALVES (CV1)

LOW PRESSURE · MANUAL · STANDARD



Size (Cv) : 1/4 to 1/2 in. (0.55 to 0.7)
Working Pressure : up to 3000 psi (206 bar)
Nominal Reseal Pressure : 4 psi (0.276 bar)
Nominal Cracking Pressure : 2 psi (0.138 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

CLEAN BALL VALVES (SBV210)

HEX TWO-PIECE



Size (Cv) : 1/4 to 1 in. (1.25 to 16)
Working Pressure : up to 1000 psi (69 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

CLEAN BALL VALVES (BLV1)

THREE-PIECE



Size (Cv) : 15A to 100A (41 to 2317)
Working Pressure : up to 145 psi (10 bar)
Temperature : 14 to 176°F (-10 to 80°C)
Grades : AP, MP, BA, EP

REGULATORS (PR1, PR2)



Size (Cv) : 1/4 in. (0.06 or 0.2), 1/2 in. (0.5)
Max. Rated Inlet Pressure : 600, 1000, 3500 psi (41.4, 69, 241 bar)
Outlet Pressure Range : 30, 60, 100, 150, 250 psi (2.1, 4.1, 6.9, 10.3, 17.3 bar)
Temperature : -15 to 302°F (-26 to 150°C)
Grades : BA, EP

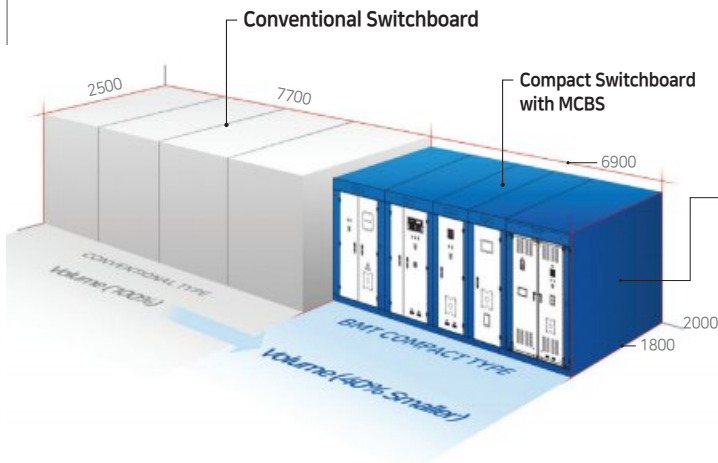
COMPACT SWITCHBOARDS

Volume Reduced by 40% & Busbar Saved by 10%

BMT Compact Switchboard dramatically reduces spatial constraints of power receiving facilities and electrical rooms in factories, buildings, etc.

BMT compact switchboards are designed and manufactured safer and more compact with MCBS, BMT's own patented technology. With a seismic design and type certified quality, BMT compact switchboards are suitable for the requirements of various industrial fields including power generation facilities, plants, and construction.

- ✓ Outstanding safety/convenience
- ✓ Compact Structure
- ✓ Convenient Operability and Expandability
- ✓ Certified Product with Patented Technologies



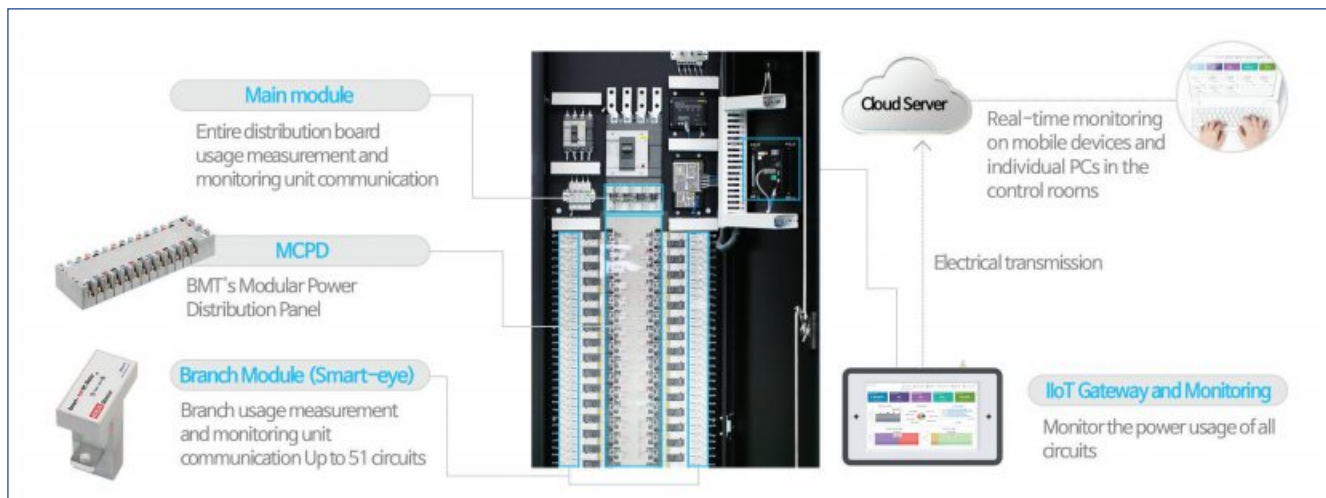
Interior of Compact Switchboard (MCBS applied)

SMART DISTRIBUTION BOARDS

BMT Smart Distribution Board is an optimum system to increase power energy efficiency

BMT Smart Distribution Boards use MCPD and Smart-eye technologies – BMT's own patented technologies – to offer values differentiated from conventional distribution boards. Smart-eye provides solutions for energy monitoring and control; and MCPD simplifies the existing complex and costly busbar assembly process and enhances the safety.

- ✓ Easy and Simple Installation and Maintenance
- ✓ Safety Accident Prevention
- ✓ Smart Electric Power Management: Power Quality Control and Energy Savings (up to 30%)
- ✓ Interfaces between Various Systems such as EMS, BAS, and Enterprise Management System



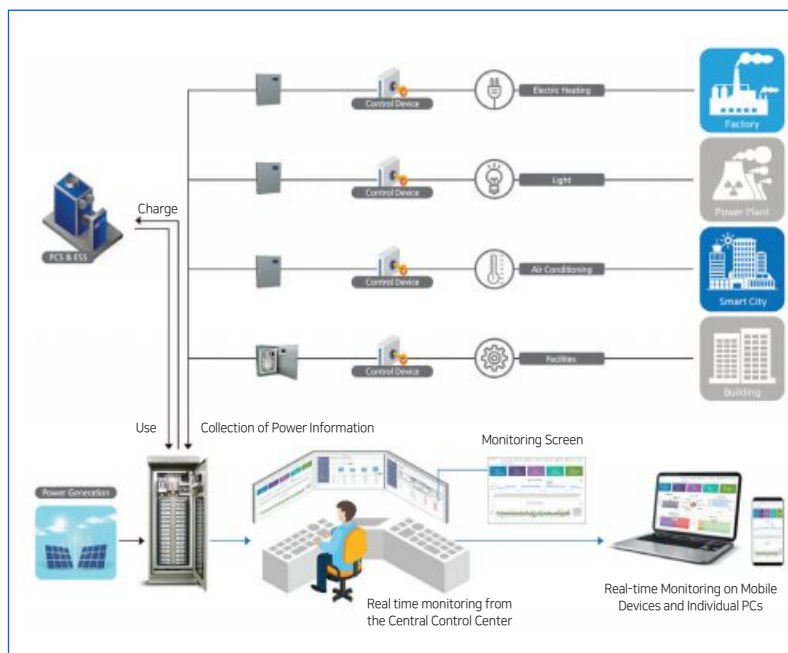
Conceptual Diagram of Smart Distribution Boards

ENERGY MANAGEMENT SYSTEM (EMS)

Energy Cost Reduction by 15% with BMT IIoT Total EMS Solution!



- ☑ Real-time Cost Management
- ☑ Real-time Energy Monitoring at a Glance
- ☑ Analysis and Reporting of Energy Use
- ☑ Facility Efficiency Analysis
- ☑ Integrated Control Management
- ☑ Strategic and Efficient Energy Management
- ☑ Preemptive Response to Environmental Regulations



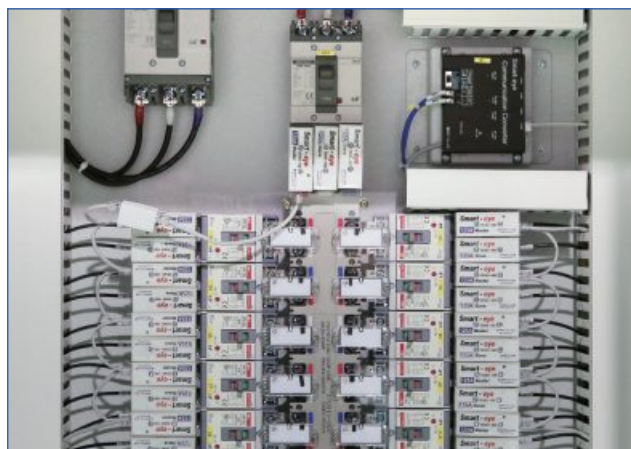
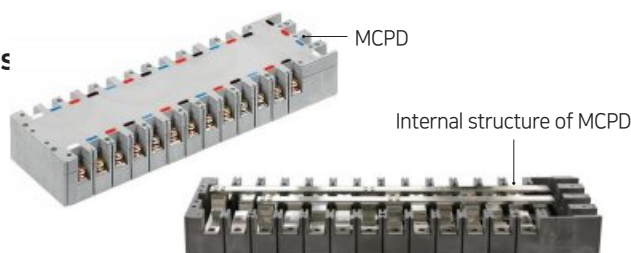
Conceptual Diagram of EMS

MCPD (MOLDED CASE POWER DISTRIBUTOR)

Essential for more convenient, safe easy-to-use, and economical distribution boards and switchboards

MCPD is a new-concept power distribution unit that replaces the traditional complex busbars (arranged vertically and horizontally) by one integrated configuration where busbars are pre-configured inside one Molded Case, an insulation case uniformized, modularized, and standardized. This feature enables simple and excellent production of distribution boards and switchboards without complex and expensive busbar assembly processes, and allows easy repair and maintenance.

- ☑ Excellent Usability
- ☑ Uniformization and Standardization
- ☑ Economical
- ☑ High Electrical Safety
- ☑ Compact and Perfect
- ☑ Compatibility and Applicability
- ☑ Suitable for Emergency Construction Patented Product



Interior of MCPD installed distribution board

BMT Co., Ltd.

| Head Quarter & 1st Factory

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Fittings & Valves

INSTRUMENTATION SERIES

Tube Fittings (inclu. i-Fitting)
Ball/Needle/Check/Relief Valves
High Pressure Valves
Manifold Valves

PIPELINE SERIES

Ball/Globe Valves
DBB Valves
Cryogenic Valves

UHP SERIES

Weld & Metal Seal Fittings
Bend Fittings
Diaphragm/Bellows/Check Valves
Regulators

Electric & Energy

PRODUCT & SOLUTION

Compact Switchboard
Motor Control Center (MCC)
Smart Distribution Board
Energy Monitoring System (EMS)

COMPONENTS & DEVICES

MCBS (Molded Case Busbar System)
MCPD (Molded Case Power Distributor)
Smart-eye

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