

SUPERLOK®

Instrumentation/Electrical Total Solution Provider **BMT**
Valve & Fitting Series



BMT Co., Ltd.
www.superlok.com

“Best Manufacturer For Tomorrow”



Head Office & First Factory

-Instrumentation Tube Fittings & Valves
-Semiconductor & High Purity Products

경상남도 양산시 산막공단남 11 길 35 (북정동)
(Bukjeong-dong), 35, Sanmakgongdannam 11-gil,
Yangsang-si, Gyeongsangnam-do, South Korea

Second Factory

Valve Center

Cryogenic Valves, DBB Valves,
Globe Valves, Gate Valves, Ball Valves

Electric Center

Switch Distribution Board
Power & Lighting Distribution Panel
Motor Control Center
Molded Case Power Distributor (MCPD)

경상남도 양산시 산막공단남 8 길 29 (호계동)
(Hogye-dong), 29, Sanmakgongdannam 8-gil,
Yangsang-si, Gyeongsangnam-do, South Korea



Integration Tube Fitting Series *i*-Fitting

Featured I-Fittings

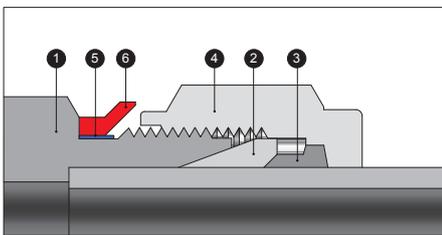
- Reduce the installation time extremely.
- Assure the perfect installation.
- No required inspection gauge.
- Make cost-down greatly by the innovated productivity.
- Easy installation available even by non-skilled worker.

How the SUPERLOK I-Fitting Works

- Able to see to separate the Check Ring from the products with eyes.
- Able to hear to separate the Check Ring from the products with ears.
- Able to touch to separate the Check Ring from the products with hands.



Structure



- ① BODY
- ② FRONT FERRULE
- ③ BACK FERRULE
- ④ NUT
- ⑤ IDENTIFICATION RING
- ⑥ CHECK RING

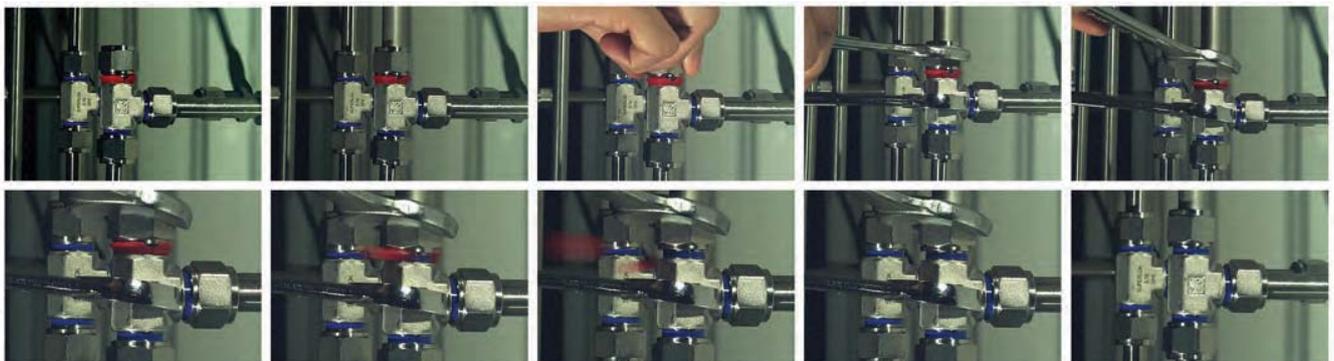
- I-Fittings is composed of Body, Front & Back Ferrules, Nut, Identification Ring and Check Ring
- I-Fittings has the structure to check the completion of installation separating Check Ring from the body

Installation Procedure



1. Prepare the required Integration Fitting composed of Body, Nut, Front & Back Ferrule, Check Ring and Identification Ring properly.
2. Insert tube into the Fittings fully and then finger-tighten the nut.
3. Completion of installation is shown to rotate the Nut until Inspection Ring is taking off.

Install Process View



Detail View



Fitting Series

SUPERLOK TUBE FITTINGS (COMPRESSION TYPE)



APPLICATIONS

Process instrumentation, High Temperature and Cryogenic service, High pressure service, Vacuum service.

SPECIFICATIONS

- The Working pressure of SUPERLOK Tube Fittings are limited by the Working pressure of tubing.
- Working Temperature Range : -320°F to 1200°F (-196°C to 649°C)

37° FLARED TUBE FITTINGS (SAE J514)



APPLICATIONS

Hydraulic system.

SPECIFICATIONS

- Maximum Working Pressure : 8700psi(600bar)@100°F(38°C) : With O-Ring Type. 5000psi(345bar)@100°F(38°C) : Without O-Ring Type. And according to SAE J514
- Working Temperature Range : up to 800°F(427°C)

INSTRUMENTATION THREAD FITTINGS



APPLICATIONS

Process, power, instrumentation and general plumbing.

SPECIFICATIONS

- Maximum Working pressure : 10000psi(689bar)@100°F(38°C)
- Working Temperature Range : -320°F to 1000°F (-196°C to 537°C)

HIGH PRESSURE FITTINGS



APPLICATIONS

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

SPECIFICATIONS

- Maximum Working pressure : up to 60000psi(4137bar)
- Working Temperature Range : -100°F to 600°F (-73°C to 315°C)

O-RING FACE SEAL FITTINGS



APPLICATIONS

High Pressure Hydraulic System

SPECIFICATIONS

- Maximum Working pressure : 14000 psi (965bar) @100 °F(38°C)
- Working Temperature Range : -13 °F to 392 °F (-25°C to 200°C)

BITE TYPE TUBE FITTINGS (DIN2353)



APPLICATIONS

Hydraulic, Compressed Air, Fuel Heating, Auto Motive

SPECIFICATIONS

- Maximum Working pressure : Very Light (LL) Series PN 100bar
Light (L) Series PN 315bar
Heavy (S) Series PN 630bar
- Working Temperature Range : up to 800°F(427°C)

BITE TYPE TUBE FITTINGS (JIS B2351)



APPLICATIONS

Hydraulic, Compressed Air, Fuel Heating, Auto Motive.

SPECIFICATIONS

- Maximum Working pressure : 3600psi(25Mpa / 254kg/cm² / 248bar)
- Working Temperature Range : -4°F to 482°F (-20°C to 250°C)

FORGED FITTINGS



APPLICATIONS

Mainly for the purpose of power plant, oil and gas field.

SPECIFICATIONS

- Maximum Working pressure : 15NB to 1100NB in 2000LBS, 3000LBS, 6000LBS, 9000LBS
- Working Temperature Range : up to 1000°F (538°C)

PUSH-ON HOSE FITTINGS



APPLICATIONS

Air break system, Air conditioning system, Automotive industry.

SPECIFICATIONS

- Maximum Working pressure : 350psi(24bar)@100°F(38°C)
- Working Temperature Range : -40°F to 212°F(-40°C to 100°C)

ULTRA HIGH PURITY FITTINGS



APPLICATIONS

Industry ultra-pure and high-purity gas line , Vacuum delivery system

SPECIFICATIONS

- Maximum Working pressure : 8500 psi (585 bar) @ 100°F (38°C)
- Working Temperature Range : up to 1000°F (537°C)

Valve Series

CRYOGENIC BALL VALVES - FCB3 SERIES



APPLICATIONS

Cryogenic liquids such as Liquefied oxygen, nitrogen, argon and more

SPECIFICATIONS

- Valve size: One Piece Top Entry - 1/2 ~ 6 inch
- Pressure Rating : ASME Class 150 to Class 1500
- Temperature : down to -196°C
- End Connection: Butt weld, Socket weld, Threaded, Flanged or combinations

CRYOGENIC GLOBE VALVES - FCGB SERIES



APPLICATIONS

Cryogenic liquids such as Liquefied oxygen, nitrogen, argon and more

SPECIFICATIONS

- Valve size: 1/2 ~ 6 inch
- Pressure Rating : ASME Class 150 to Class 1500
- Temperature : down to -196°C
- End Connection: Butt weld, Socket weld, Threaded, Flanged or combinations

CRYOGENIC GATE VALVES - FCGT SERIES



APPLICATIONS

Cryogenic liquids such as Liquefied oxygen, nitrogen, argon and more

SPECIFICATIONS

- Valve size: 1/2 ~ 6 inch
- Pressure Rating: ASME Class 150 to Class 600
- Temperature : down to -196°C
- End Connection: Butt weld, Socket weld, Threaded, Flanged or combinations

SAE J518& ISO 6164 FLANGED BALL VALVES - SBVE SERIES



APPLICATIONS

Hydraulic system .

SPECIFICATIONS

- Maximum Working pressure : up to 6000psi(414bar) @100°F (38°C)
- Working Temperature Range : -4°F to 210°F (-20°C to 100°C)

FLANGED BALL VALVES - FB2F SERIES



APPLICATIONS

Hydraulic system , Chemical ,petrochemical , Oil and Gas production.

SPECIFICATIONS

- Maximum Working pressure : ASME Class150 to Class2500
- Working Temperature Range : -20°F to 400°F (-29°C to 204°C)

SWING-OUT BALL VALVES - SWB 320 & SWB 310 SERIES



APPLICATIONS

Instrument Air lines, chemical process, Oil and Gas Production.

SPECIFICATIONS

- Maximum Working pressure : 3 000 psi (207 bar) @ 100°F(38°C)
- Working Temperature Range : -20°F to 450°F (-29°C to 232°C)

INSTRUMENTATION MANIFOLD VALVES - SM2V & SM3V & SM5V SERIES



APPLICATIONS

Pressure & Differential Pressure Instrumentation.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F (-54°C to 232°C) with PTFE packing up to 1200°F(649°C) with Graphite packing

INSTRUMENTATION GAUGE VALVES - SGBV & SGBV2 SERIES



APPLICATIONS

Pressure Gauge , primary Isolation.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F (-54°C to 232°C) with PTFE packing up to 1200°F(649°C) with Graphite packing

FORGED STEEL GATE VALVES - FGT SERIES



APPLICATIONS

Hydraulic system , Chemical ,petrochemical , Oil and Gas production.

SPECIFICATIONS

- Maximum Working pressure : ASME Class150 to Class2500
- Working Temperature Range : -20°F to 400°F (-29°C to 204°C)

FORGED STEEL GLOBE VALVES - FGB SERIES



APPLICATIONS

Hydraulic system , Chemical ,petrochemical , Oil and Gas production.

SPECIFICATIONS

- Maximum Working pressure : ASME Class150 to Class2500
- Working Temperature Range : -20°F to 400°F (-29°C to 204°C)

FORGED STEEL CHECK VALVES - FLC SERIES



APPLICATIONS

Hydraulic system , Chemical ,petrochemical , Oil and Gas production.

SPECIFICATIONS

- Maximum Working pressure : ASME Class150 to Class2500
- Working Temperature Range : -20°F to 400°F (-29°C to 204°C)

BLOCK & BLEED VALVES - DB1 & DB2 SERIES



APPLICATIONS

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

SPECIFICATIONS

- Maximum Working pressure : Class 150 to Class 2500
- Working Temperature Range :
-58°F to 400°F (-50°C to 204°C) for stainless steel and duplex valve assemblies
-50°F to 400°F (-46°C to 204°C) for carbon steel valve assemblies

BALL VALVE - SBV 120H SERIES



APPLICATIONS

Industry ultra-pure and high-purity gas line , Vacuum delivery system

SPECIFICATIONS

- Maximum Working pressure : 3000 psi (207bar) @ 70°F(21°C)
- Working Temperature Range : 50°F to 150°F (10°C to 66°C)

BALL VALVE - SBV 210 SERIES



APPLICATIONS

Pneumatic System, Instrument System.

SPECIFICATIONS

- Maximum Working pressure : 1000psi (69 bar) @ 70°F(21°C)
- Working Temperature Range : 0°F to 450°F (-17°C to 232°C)

KEY OPERATION BALL VALVES - SBVL 210 & SBVL 360 SERIES



APPLICATIONS

Pneumatic System, Instrument System & isolation ,General service

BALL VALVE SPECIFICATIONS

- Maximum Working pressure : 1000psi (69 bar) @ 70°F(21°C)
6000psi (414 bar) @ 70°F(21°C)
- Working Temperature Range : 0°F to 450°F (-17°C to 232°C)

NEEDLE VALVE SPECIFICATIONS

- Maximum Working pressure : 5000 psi (345 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F (-54°C to 232°C)

BALL VALVE - SBVH 360 SERIES



APPLICATIONS

High Pressure Instrument system, Hydraulic system.

SPECIFICATIONS

- Maximum Working pressure : 10000 psi @ 70°F (21°C)
- Working Temperature Range : -22°F to 265°F (-30°C to 130°C)

BALL VALVE TO DIN STANDARD - SBVD 370 SERIES



APPLICATIONS

Hydraulic Lines

SPECIFICATIONS

- Maximum Working pressure : 7200 psi (496bar) @ 70°F(21°C)
- Working Temperature Range : -4°F to 210°F (-20°C to 100°C)

TRUNNION BALL VALVES - BT SERIES



APPLICATIONS

Instrument Air lines, GAS & CNG industry, Sampling.

SPECIFICATIONS

- Maximum Working pressure : 10000 psi (689 bar) @ 100°F(38°C)
- Working Temperature Range : 0°F to 250°F (-17°C to 121°C)

FORGED HIGH PRESSURE BALL VALVES - SBVF 360 SERIES



APPLICATIONS

High pressure Instrument Lines, OIL & GAS Production.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 70°F(21°C)
- Working Temperature Range :
 - 65°F to 450°F(-54°C to 232°C) with PEEK seat
 - 65°F to 350°F(-54°C to 177°C) with PCTFE seat

UNION BONNET NEEDLE VALVES - SUNV & SUNV A SERIES



APPLICATIONS

High temperature and pressure Radioactive Service, Condensates.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F(-54°C to 232°C) with PTFE packing
Up to 1200°F(649°C) with Graphite packing

INTEGRAL BONNET NEEDLE VALVES - SINV & SINV A SERIES



APPLICATIONS

Instrument isolation , General service , Test valve.

SPECIFICATIONS

- Maximum Working pressure : 5000 psi (345 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F (-54°C to 232°C)

HIGH PRESSURE BAR STOCK NEEDLE VALVES - SHBNV SERIES



APPLICATIONS

High pressure service, Instrument Isolation.

SPECIFICATIONS

- Maximum Working pressure : up to 10000psi(689bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F(-54°C to 232°C) with PTFE packing
Up to 1200°F(649°C) with Graphite packing

MEDIUM PRESSURE NEEDLE VALVE - SHNV20 SERIES & HIGH PRESSURE NEEDLE VALVE - SHNV60 SERIES



APPLICATIONS

High pressure equipment, Pumping system, Hydraulic Intensifier, Water blasting, Test stands.

SPECIFICATIONS

- Maximum Working pressure : up to 6000psi(4137bar)
- Working Temperature Range : 0°F to 450°F(-17.8°C to 232°C) with PTFE packing
Up to 800°F(427°C) with Graphite packing

INTEGRAL BONNET BAR STOCK NEEDLE VALVES - SBNV SERIES



APPLICATIONS

Instrument Isolation, General service, Test Valves.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -65°F to 450°F (-54°C to 232°C)

PLUG VALVES - SPV130 SERIES



APPLICATIONS

Instrument Air Lines, Refinery pilot plant.

SPECIFICATIONS

- Maximum Working pressure : 3000 psi (207 bar) @ 100°F(38°C)
- Working Temperature Range : -10°F to 400°F (-23°C to 204°C)

RISING PLUG VALVES - SRPV SERIES



APPLICATIONS

Line which contain small solid impurities, Instrument lines which contain viscous fluids or slurries, System which require flow regulation and full flow capabilities.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -10°F to 400°F (-23°C to 204°C)

TOGGLE VALVES - STV SERIES



APPLICATIONS

Instrument Line, Pneumatic system.

SPECIFICATIONS

- Maximum Working pressure : 300 psi (20.7 bar) @ 100°F(38°C)
- Working Temperature Range : -20°F to 200°F (-29°C to 93°C) with PTFE stem tip

CHECK VALVES - SPCV SERIES



APPLICATIONS

Instrument Lines, Prevent reversed flow, un-directional flow control.

SPECIFICATIONS

- Maximum Working pressure : 3000 psi (207 bar) @ 70°F(21°C)
- Cracking Pressure : 1/3 psi (0.03 bar) to 100 psi(6.9 bar)
- Working Temperature Range : -10°F to 375°F (-23°C to 191°C)

HIGH PRESSURE CHECK VALVES - SHCV SERIES & ADJUSTABLE CHECK VALVES - SACV SERIES



APPLICATIONS

Prevent Reversed flow, High Pressure characteristics.

SPECIFICATIONS

- Maximum Working pressure : up to 6000 psi (414 bar) @ 100°F(38°C)
- Cracking Pressure : 1/3 psi (0.03 bar) to 25 psi(1.7 bar)
- Working Temperature Range : -10°F to 375°F (-23°C to 191°C)

INDUSTRIAL EXCESS FLOW VALVES - SEFV SERIES



APPLICATIONS

Fuel system, Gas system, Hydraulic & Pneumatic system.

SPECIFICATIONS

- Maximum Working pressure : up to 6000psi(414bar)@100°F(38°C)
- Working Temperature Range : up to 400°F(204°C)

BLEED & PURGE VALVES - SPUV SERIES



APPLICATIONS

Venting & purging of Instrument system, Hydraulic & Pneumatic system.

SPECIFICATIONS

- Maximum Working pressure : up to 10000psi(689bar) @100°F (38°C)
- Working Temperature Range : -65°F to 850°F (-54°C to 454°C) with stainless steel, from -20°F to 450°F (-29°C to 232°C) with carbon steel

Others

MICRON INLINE FILTERS - SIF SERIES



APPLICATIONS

Protection of instrument system.

SPECIFICATIONS

- Maximum Working pressure : 3000 psi (207 bar) @ 100°F(38°C)
- Working Temperature Range : -20°F to 900°F (-29°C to 482°C)
- Filtering Range : 1 to 90 Micron

HYDRAULIC FLANGES (SAE J518, ISO 6162)



APPLICATIONS

High pressure hydraulic system.

SPECIFICATIONS

- Maximum Working pressure : 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -13°F to 392°F (-25°C to 200°C) with sealing material FKM

FLEXIBLE METAL HOSES - SFH SERIES



APPLICATIONS

High Vibration , Misalignment, Piping Works for expansion, Moveable Equipment.

SPECIFICATIONS

- Maximum Working pressure : 1600 psi (110 bar) @ 70°F(21°C)
- Working Temperature Range : up to 1000°F(538°C)

RELIEF VALVES - SRVL & SRVH SERIES



APPLICATIONS

Prevent over pressure to protect.

SPECIFICATIONS

- Maximum Working pressure : SRVL-300 psi (20.7 bar) @ 100°F(38°C)
SRVH- 6000 psi (414 bar) @ 100°F(38°C)
- Working Temperature Range : -10°F to 400°F (-23°C to 204°C)
- Opening Pressure : SRVL: 10psi(0.69 bar) to 250 psi (17.2bar)
SRVH: 225psi(15.5 bar) to 6000 psi (414 bar)

INSTRUMENTATION QUICK CONNECTORS - SQC SERIES



APPLICATIONS

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

SPECIFICATIONS

- Maximum Working pressure : 3000 psi (207 bar) @ 100°F(38°C)
- Working Temperature Range : -10°F to 400°F (-23°C to 204°C)
- Maximum Working Temperature : 200°C with sealing material VITON

VACUUM CLAMPS & ISO-KF COMPONENTS



APPLICATIONS

Vacuum system.

SPECIFICATIONS

Vacuum rated to 1x10⁻⁸ Torr

- Leak rating : 1x10⁻⁹ std cc/s
- Maximum Working Temperature : 200°C with sealing material VITON

Multihead Hydraulic Swaging Unit SMHS Series

SWAGING UNIT - SMHS-A & SMHS-M SERIES



APPLICATIONS

Flaring, Cutting ring assembly & Ferrule swaging

SPECIFICATIONS

Tube Diameter Range (OD) : Metric Tube - 6~42mm, Fractional Tube - 3/4"~2"

MULTIHEAD HYDRAULIC - TUBE BENDERS



APPLICATIONS

Tube Bending

SPECIFICATIONS

Tube Diameter Range (OD) : 1/4" ~ 1/2"

Valve Series

- Key Operation Ball Valves
- Key Operation Needle Valves
- Ball Valves
- Integral Bonnet Needle Valves
- Union Bonnet Needle Valves
- Check Valves
- High Pressure Check Valves
- High Pressure Needle Valves
- Plug Valves
- Manifold Valves
- Vacuum Clamps
- Water Regulators
- Flexible Hoses
- Double Block & Bleed Valves
- Swing-Out Ball Valves
- Toggle Valves
- Bleed & Purge Valves
- Quick Connectors
- High Pressure Ball Valves
- Hydraulic Ball Valves
- Trunnion Ball Valves
- Rising Plug Valves
- Relief Valves
- Cryogenic Needle Valves
- Cryogenic Ball Valves
- Micron in-Line Filters
- Gauge Root Valves
- Hydraulic Flange and Components

Fitting Series

- Integration Tube Fittings
- Tube Fittings (Compression Type)
- Instrument Thread Fittings
- Forged Fittings
- Bite Type Tube Fittings (DIN2353)
- Bite Type Tube Fittings (JIS B2351)
- 37 Flared Tube Fittings (SAE J514)
- O-Ring Face Seal Fittings
- Hose Connectors & Push-On Hose Fittings

Electric Equipment

- MCPD(Molded Case Power Distributor)
- SPIDER
- Smart Eye Module

i-Fitting

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