

A product digest

# KOSMEK WORK CLAMPING SYSTEMS



CLAMP



POSITIONING



COUPLER & JOINT



VALVE



PUMP



UNIT

# LHA

**New**

SWING CLAMP (Double-action)


**Hydraulic 7MPa**

**High clamping force & High speed swing clamp.**  
**Larger guide ratio allows for higher clamping forces**  
 (+26% max) and the use of longer lever arms.

[Specifications]

Cylinder external diameter (mm) : 36 40 48 55 65 75 90 105

Cylinder output (kN) (at 7 MPa) : 2.48 ~ 28.9

Operating pressure (MPa) : 1.5 ~ 7.0

[Options]

- Dual rod end • Air sensor (manifold • piping)
- Quick-change lever • Double clamp arm
- Long stroke • Swing angle

# LT/LG

SWING CLAMP (Single-action)


**Hydraulic 7MPa**

**Adopted for standard use on various manufacturing lines.**  
**Originally developed for the automotive industry.**  
**Aluminum body (LT036 ~ 075)**  
**Steel body (LG090 ~ 105)**

[Specifications]

Cylinder external diameter (mm) : 36 40 48 55 65 75 90 105

Cylinder output (kN) (at 7 MPa) : 2.16 ~ 26.5

Operating pressure (MPa) : 2.5 ~ 7.0

# WHA

**New**

AIR SWING CLAMP (Double-action)


**Air pressure 1MPa**

**Compact pneumatic swing clamp with a direct mount**  
**flow control option allowing for individual clamp speed adjustment.**

[Specifications]

Cylinder internal diameter (mm) : 32 40 50 63

Cylinder output (kN) (at 1 MPa) : 0.65 ~ 2.63

Operating pressure (MPa) : 0.1 ~ 1.0

[Options]

- Dual rod end • Quick-change lever

# TLA/ TLB

**New**

SWING CLAMP (Single-action/Double-action)


**Hydraulic 35MPa**

**High speed swing clamps with a three ball track allowing for more**  
**accuracy and durability.**  
**Available with both top and bottom flange mounts.**  
**Allows for a longer range of lever lengths.**  
**Machined plastic dust seals allow for more**  
**reliable protection against contaminants.**

[Specifications]

TLA Cylinder external diameter (mm) : 28.5 33 36 43 46 56 63 90

TLB Cylinder external diameter (mm) : 32 36 39 46.5 53 63.5 71 90

Single-action Cylinder output (kN) (at 35 MPa) : 3.32 ~ 40.64

Double-action Cylinder output (kN) (at 35 MPa) : 3.52 ~ 43.3

Operating pressure (MPa) : 7.0 ~ 35.0

[Options]

- Double clamp arm • Long stroke • Swing angle

# LKA

New

LINK CLAMP (Double-action)



## Hydraulic 7MPa

**High clamping force, compact link clamp.****Every aspect has been optimized to increase clamping force which is now 33% higher than previous generation.****Cast steel body also allows for a more compact design with more durability, and reliable performance.**

[Specifications]

Cylinder external diameter (mm) : 36 40 48 55 65 75 90 105

Cylinder output (kN) (at 7 MPa) : 3.16 ~ 35.2

Operating pressure (MPa) : 0.5 ~ 7.0

[Options]

- Dual rod end
- Air sensor (manifold • piping)
- High strength link plate

# LM/LJ

LINK CLAMP (Single-action)



## Hydraulic 7MPa

**Adopted for standard use on various product manufacturing lines.****Originally developed for the automotive industry.****Aluminum body (LM036 ~ 075)****Steel body (LJ090 ~ 105)**

[Specifications]

Cylinder external diameter (mm) : 36 40 48 55 65 75 90 105

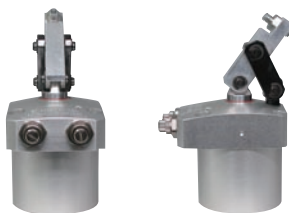
Cylinder output (kN) (at 7 MPa) : 2.46 ~ 31.0

Operating pressure (MPa) : 2.5 ~ 7.0

# WCA

New

AIR LINK CLAMP (Double-action)



## Air pressure 1MPa

**Compact pneumatic link clamp with a direct mount flow control option allowing for individual clamp speed adjustment.**

[Specifications]

Cylinder internal diameter (mm) : 32 40 50 63

Cylinder output (kN) (at 1 MPa) : 0.80 ~ 3.12

Operating pressure (MPa) : 0.1 ~ 1.0

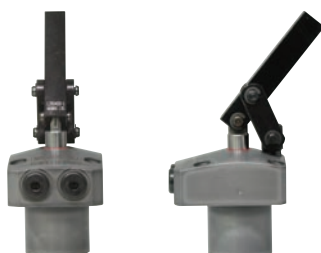
[Options]

- Dual rod end

# TMA

New

LINK CLAMP (Single/Double-action)



## Hydraulic 35MPa

**Compact high pressure link clamp.****Longer durability achieved by strengthening the link mechanism.**

[Specifications]

Cylinder external diameter (mm) : 33 36 43 48 60 70 85

Single-action Cylinder output (kN) (at 35 MPa) : 2.62 ~ 27.4

Double-action Cylinder output (kN) (at 35 MPa) : 3.64 ~ 39.7

Operating pressure (MPa) : 3.5 ~ 35.0

# LC

WORK SUPPORT (Flange option)



Hydraulic advance

Hollow

Spring advance

## Hydraulic 7MPa

The world's first collet type work support enabling pressures of 2.5 ~ 7MPa. Powerful support force prevents workpiece chatter caused by cutting load and vibration.

[Specifications]

Cylinder external diameter (mm) : 40 48 55 65 75 90

Support force (kN) (at 7MPa) : 5.5 ~ 65.0

Operating pressure (MPa) : 2.5 ~ 7.0

# LD

WORK SUPPORT (Threaded body)



Hydraulic advance

Spring advance

## Hydraulic 7MPa

High support force produced within a small body size due to the internal collet design and larger plunger. This allows for stability even in low pressure ranges. Four sizes ranging from M26 ~ M45.

[Specifications]

Diameter of the threaded body : M26 M30 M36 M45

Support force (kN) (at 7MPa) : 3.0 ~ 10.0

Operating pressure (MPa) : 2.5 ~ 7.0

# WD

AIR WORK SUPPORT (Threaded body)



Air advance

Spring advance

## Air pressure 1MPa

Pneumatic work support with activating pressure as low as 0.4MPa. Can be installed in small areas without changes to the size of the fixture plate.

[Specifications]

Diameter of the threaded body : M26 M30 M36 M45

Support force (kN) (at 1MPa) : 0.8 ~ 4.0

Operating pressure (MPa) : 0.4 ~ 1.0

# TNC

WORK SUPPORT (Threaded body)



Hydraulic advance

## Hydraulic 35MPa

The only collet design high pressure work support in the industry. This allows for smoother operation and stable support force at higher pressures.

[Specifications]

Diameter of the threaded body : M26 M30 M36 M45

Support force (kN) (at 35MPa) : 4.4 ~ 16.3

Operating pressure (MPa) : 7.0 ~ 35.0

# DP

PUSH CYLINDER



Hydraulic 7MPa

Hydraulic 25MPa

A versatile cylinder that comes with a variety of piston shapes.  
Single-action cylinder with 3 strokes and  
a total of 102 different types to choose from.  
It can be used in small spaces due to its cartridge style design.

[Specifications]

Diameter of the threaded body : M16 M22 M24 M30 M36 M45 M55 M65 M80

Cylinder output (kN) (at 25MPa) : 1.23 ~ 58.3

Operating pressure (MPa) : 0.8 ~ 25

[Shape of piston tip]



Female thread



Round



Oscillating pad

Oscillating pad  
with female thread

# DR/DS

PULL CYLINDER



Hydraulic 7MPa

Hydraulic 25MPa

A versatile cylinder that comes with a variety of piston shapes.  
Single-action cylinder with 3 strokes and  
a total of 24 (DR) / 48 (DS) different types to choose from.  
It can be used in small spaces due to its cartridge style design.

[Specifications]

Diameter of the threaded body : M22 M24 M30 M36 M45 M55 M65 M80

Cylinder output (kN) DR (at 25MPa) : 1.75 ~ 62.1

Cylinder output (kN) DS (at 25MPa) : 3.01 ~ 64.1

Operating pressure (MPa) : 1.0 ~ 25

# DT

HOLLOW CYLINDER



Hydraulic 7MPa

Hydraulic 25MPa

A versatile cylinder that comes with a variety of piston shapes.  
Single-action cylinder with 3 strokes and  
a total of 30 different types to choose from.  
It can be used in small spaces due to its cartridge style design.

[Specifications]

Diameter of the threaded body : M36 M45 M55 M65 M80

Cylinder output (kN) (at 25MPa) : 11.3 ~ 64.1

Operating pressure (MPa) : 1.0 ~ 25

# LL/LLR/LLU

LINEAR CYLINDER



Hydraulic 7MPa

With Strokes from 1mm to 200mm get the exact length you need.

[Specifications]

Cylinder external diameter (mm) : 36 40 48 55 65 75 90 105

Cylinder output (kN) (at 7MPa) : push side 3.15 ~ 35.2 pull side 1.75 ~ 24.0

Operating pressure (MPa) : 0.5 ~ 7.0

[Options]

• Dual rod end • Air sensor (manifold • piping)

[Shape of piston tip]



Female thread



Male thread



Pin hole

## VS/VT

## PALLET CLAMP



Spring type datum clamp



Double-action datum clamp

## Hydraulic 7MPa

**Pallet clamp datums for fixture loading.**  
**High positioning accuracy of 3  $\mu$ m or better.**

## [Specifications]

Single-action : Clamp force (kN) : 2.5 4.0 6.0 10.0 16.0 25.0 40.0

Release hydraulic pressure (MPa) : 3.5 ~ 7.0

Double-action : Clamp force (kN) : 4.0 6.0 10.0 16.0 25.0

Operating pressure (MPa) : 1.5 ~ 7.0

## VL/VM

## DATUM CYLINDER



Spring type datum cylinder



Double-action datum cylinder

## Hydraulic 7MPa

**Quick locate and release datum cylinders for part location**  
**using existing machined or cast holes.**  
**High positioning accuracy of 3  $\mu$ m or better.**

## [Specifications]

Workpiece hole diameter (standard) (mm) : 8 9 10 12 13 15 16 18 20

Release hydraulic pressure (MPa) : 5.5 ~ 65.0

Single-action : Positioning force (N) : 260 290

Double-action : Positioning force (N) (at 7MPa) : 510 550

## WM

## AIR DATUM CYLINDER



## Air pressure 1MPa

**Pneumatic datum hole locator with quick locate and**  
**release ability using existing machined or cast holes.**  
**High positioning accuracy of 3  $\mu$ m or better can be realized.**

## [Specifications]

Workpiece hole diameter (standard) (mm) : 8 9 10 12 13 15 16 18 20

Operating pressure (MPa) : 5.5 ~ 65.0

Positioning force (N) (at 1MPa) : 300 330

## VX

## MANUAL DATUM PIN LOCATOR



Datum (for positioning)



Cut (for positioning in one direction)

## MANUAL

**Workpiece can be positioned manually with a repeat accuracy of 5  $\mu$ m**  
**with expansion of the taper sleeve.**

## [Specifications]

Workpiece hole diameter (standard) (mm) : 8 10 12 16 20

Positioning force (N) (at Allowable tightening torque) : 1500 ~ 5370

**SFH**

New

HOLE CLAMP (Casting Hole)



Hydraulic 7MPa

This clamp pulls the workpiece to the reference plane according to the Z axis using its existing machined hole. It allows for five face machining on the workpiece.

[Specifications]

Workpiece hole diameter (standard) (mm) : 6 7 8 9 10 11 12 13 14 15 16 17 18

Clamp force (kN) (at 7MPa) : 2.05 ~ 6.95

Operating pressure (MPa) : 1.5 ~ 7.0

**SWH**

New

AIR HOLE CLAMP



Air pressure 1MPa

This pneumatic hole clamp pulls the workpiece to the reference plane according to the Z axis using its existing machined hole. It allows for five face machining on the workpiece.

[Specifications]

Workpiece hole diameter (standard) (mm) : 11 12 13 14

Clamp force (kN) (at 1MPa) : 1.50

Operating pressure (MPa) : 0.3 ~ 1.0

**SFE**

New

HOLE CLAMP (Casting/Machined hole)



Hydraulic 7MPa

Clamp that pulls workpiece to the reference plane of Z axis by using its machined hole. It allows for five face machining on the workpiece.

[Specifications]

Workpiece hole diameter (standard) (mm) : 11 12 13 14

Clamp force (kN) (at 7MPa) : 1.27

Operating pressure (MPa) : 2.5 ~ 7.0



Serrated



Flat

**FP/FQ**

BALL LOCK CLAMP

PULL BOLT



Hydraulic 7MPa

Hydraulic 25MPa

Pull bolt (stud bolt) hydraulic clamp that enables machining on five surfaces of the workpiece except for the clamping seat.

[Specifications]

7MPa type : Cylinder external diameter (mm) : 39 55 65 75 90

Clamp force (kN) (at 7MPa) : 4.0 6.3 10.0 15.0 24.0

Operating pressure (MPa) : 1.0 ~ 7.0

25MPa type : Cylinder external diameter (mm) : 36 39 47 55 75

Clamp force (kN) (at 25MPa) : 4.0 6.3 10.0 15.0 25.0

Operating pressure (MPa) : 1.0 ~ 25.0



## BGC/BGD

NON-LEAK AUTO COUPLER with  
PILOT CHECK VALVE



Hydraulic 7MPa

Hydraulic 25MPa

Fixture side pressure can be held when the pressure supply is stopped with coupler connected.

This allows for smooth connection/disconnection without any hydraulic restrictions or requirements.

An air blow function on the coupler surface is provided at the socket side.

[Specifications]

Fluid to be used : General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 10.2

Reaction force at pressurization (kN) (at 7MPa) : 0.96

Allowable eccentricity (mm) :  $\pm 1$

Operating pressure (MPa) : 1.0 ~ 25.0

## BGP/BGS

NON-LEAK AUTO COUPLER with  
PILOT CHECK VALVE



Hydraulic 7MPa

Fixture side pressure can be held when the pressure supply is stopped with coupler connected.

This allows for smooth connection/disconnection without any hydraulic restrictions or requirements.

[Specifications]

Fluid to be used : General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 11

Reaction force at pressurization (kN) (at 7MPa) : 0.93

Allowable eccentricity (mm) :  $\pm 1$

Operating pressure (MPa) : 1.0 ~ 7.0

## BNP/BNS

NON-LEAK AUTO COUPLER



Hydraulic 7MPa

Hydraulic 25MPa

Non-leak auto coupler equipped with aligning mechanism to enable connection and disconnection under a pressurized condition.

[Specifications]

Fluid to be used : General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 11

Reaction force at pressurization (kN) (at 7MPa) : 1.02

Allowable eccentricity (mm) :  $\pm 1$

Operating pressure (MPa) : 1.0 ~ 25.0

## BBP/BBS

NON-LEAK AUTO COUPLER  
(requires SMALL AMOUNT OF PRESSING FORCE)



Hydraulic 7MPa

Hydraulic 25MPa

Non-leak auto coupler which requires a small amount of pressing force regardless of operating pressure.

Simplifies the use of connecting equipment due to a decreased load on the fixture side.

[Specifications]

Fluid to be used : General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 11.6

Pressing force required at connection (kN) : 0.25 more than

Allowable eccentricity (mm) :  $\pm 1$

Operating pressure (MPa) : 5.0 ~ 25.0



# BJP/BJS

NON-LEAK AUTO COUPLER



Hydraulic 7MPa

Hydraulic 25MPa

**Non-leak auto coupler equipped with aligning mechanism to enable connection and disconnection while under a pressure.**

[Specifications]

Fluid to be used : General hydraulic oil

Min. passage area (mm<sup>2</sup>) :

10.3 (BJ□220/250) 40 (BJ□321) 29 (BJ□351)

Reaction force at pressurization (kN) (at 7MPa) :

0.68 (BJ□220/250) 1.22 (BJ□321/BJ□351)

Allowable eccentricity (mm) : ±1

Operating pressure (MPa) : 1.0 ~ 30.0

# JNA/JNB

AUTO JOINT FOR SEATING detection



Air pressure 1MPa

**Auto joint for pneumatic part seating detection.**

**Set up so that the construction restricts intrusion of coolant or chips using non-leak check valves.**

[Specifications]

Fluid to be used : Air

Min. passage area (mm<sup>2</sup>) : 8.8 (7.4 : at eccentric)

Reaction force at pressurization (kN) (at 0.5MPa) : 0.12

Allowable eccentricity (mm) : ±1

Operating pressure (MPa) : max 1.0

# JNC/JND

AUTO JOINT



Air pressure 1MPa

Hydraulic 25MPa

**Hydraulic and air auto joint used for attaching/detaching to fluid circuit when replacing fixture pallets or tombstones.**

[Specifications]

Fluid to be used : Air General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 10.3

Reaction force at pressurization (kN) (at 7MPa) : 0.82

Allowable eccentricity (mm) : ±0.5 (JNC/D 020-0F) ±0.41 (JNC/D 020-0M)

Operating pressure (MPa) : max 25

# JLP/JLS

AUTO JOINT



Air pressure 1MPa

Coolant 3.5MPa

Hydraulic 25MPa

**Auto joint with check valve used in an pneumatic circuit or for coolant, applicable mainly for automation applications.**

[Specifications]

Fluid to be used : Air Coolant General hydraulic oil

Min. passage area (mm<sup>2</sup>) : 29.0 (JL□020) 50.0 (JL□030))

Reaction force at pressurization (kN) (at 7MPa) :

1.18 (JL□020) 1.54 (JL□030)

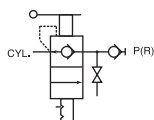
Allowable eccentricity (mm) : ±0.5

Operating pressure (MPa) : max 3.5 (Air Coolant)

max 25 (Hydraulic pressure)

**BK**

NON-LEAK VALVE



Hydraulic 7MPa

Hydraulic 30MPa

**Manual disconnect non leak check valve.****Maintains fixture pressure when disconnected from hydraulic source.**

[Specifications]

Hydraulic supply options :

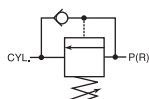
Piping Manifold Valve stack option (BLS.BLB.BM)

Min. passage area (mm<sup>2</sup>) : 17.0 (BK22) 14.2 (BK25) 30.0 (BK32)

Operating pressure (MPa) : 2.0 ~ 30.0

**BLS**

SEQUENCE VALVE



Hydraulic 7MPa

Hydraulic 30MPa

**Sequence valve operates multiple actuators in sequence to perform positioning and prevent deformation.**

[Specifications]

Hydraulic supply options : Piping Manifold Valve stack option (BK.BLB)

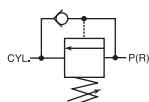
Min. passage area (mm<sup>2</sup>) : 7 (P (R)→CYL) 27 (CYL→P (R))

Operating pressure (MPa) : 2.0 ~ 30.0

**BLG**

New

COMPACT SEQUENCE VALVE



Hydraulic 7MPa

Hydraulic 35MPa

**Compact, manifold mount only, sequence valve to operate multiple actuators in sequence to perform positioning and prevent deformation.**

[Specifications]

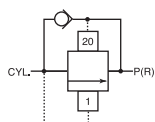
Hydraulic supply options : Manifold

Min. passage area (mm<sup>2</sup>) : 8.7 (P (R)→CYL) 10.2 (CYL→P (R))

Operating pressure (MPa) : 2.0 ~ 35.0

**BLB**

PRESSURE BALANCE VALVE



Hydraulic 7MPa

Hydraulic 30MPa

**Pressure balance valve used to prevent workpiece deformation during actuation.**

[Specifications]

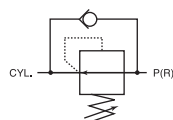
Hydraulic supply options : Piping Manifold Valve stack option (BK)

Min. passage area (mm<sup>2</sup>) : 4.6

Operating pressure (MPa) : 2.0 ~ 30.0

**BM**

NON-LEAK REDUCING VALVE



Hydraulic 7MPa

Hydraulic 30MPa

Non-leak reducing valve to partially reduce hydraulic circuit pressure of a fixture.

Has the ability to be used in the circuit while disconnected from the pressure source.



[Specifications]

Hydraulic supply options : Piping Manifold Valve stack option (BK)

Min. passage area (mm<sup>2</sup>) : 9.4

Primary supply pressure (MPa) : 3.5 ~ 30.0

Secondary pressure (MPa) : 2.0 ~ 20.0

**JSS**

New

ACCUMULATOR



Hydraulic 7MPa

Spring type accumulator to absorb pressure fluctuation within a hydraulic circuit.

Wide range of available operating specifications.



[Specifications]

Hydraulic supply options : Piping Manifold

Operating pressure (MPa) : 2.0 ~ 7.0

**JK**

PRESSURE INDICATOR



Hydraulic 7MPa

Hydraulic 22MPa

Detects circuit pressure of a fixture disconnected from the hydraulic pressure source by using a built-in actuator to contact a limit switch.



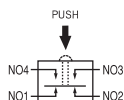
[Specifications]

Hydraulic supply options : Piping Manifold

Set pressure range (MPa) : 4.5 ~ 22.0

**PS**

COUPLER SWITCH



Provides interlocking between a jig and a jig transport system by an electrical signal to ensure disconnection of hydraulic power supply hose from the jig.

**JGA/JGB**

PRESSURE GAUGE

Indicates pressure of hydraulic circuit.  
Glycerin filled to help prevent vibration.

**JX**

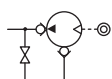
Pressure Gauge Mounting Block

Split a single circuit into multiple branches.



## AA/AB/AC

AIR-DRIVEN PUMP



Hydraulic 7MPa

Hydraulic 64.7MPa

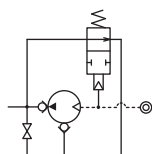
16 sizes ranging from palm size to large flow rate.  
High hydraulic pressure is available using only compressed air.

[Specifications]

|  |         |            |
|--|---------|------------|
| Discharge pressure (MPa) :               | AA pump | 4.0 ~ 17.7 |
|  | AB pump | 2.4 ~ 43.5 |
|  | AC pump | 2.3 ~ 64.7 |
| Air consumption (Nm <sup>3</sup> /min) : | AA pump | 0.15       |
|  | AB pump | 0.4        |
|  | AC pump | 1.0        |

## AA-V/AB-V/AC-V

AIR-DRIVEN PUMP



Hydraulic 7MPa

Hydraulic 43.5MPa

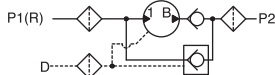
16 sizes ranging from palm size to large flow rate. Has built-in valve.  
High hydraulic pressure is available using only compressed air.

[Specifications]

|  |         |            |
|--|---------|------------|
| Discharge pressure (MPa) :               | AA pump | 4.0 ~ 17.7 |
|  | AB pump | 2.4 ~ 43.5 |
|  | AC pump | 2.3 ~ 64.7 |
| Air consumption (Nm <sup>3</sup> /min) : | AA pump | 0.15       |
|  | AB pump | 0.4        |
|  | AC pump | 1.0        |

## AU

CONTINUOUS DISCHARGE BOOSTER



Hydraulic 7MPa

Hydraulic 30MPa

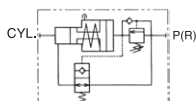
Compact pressure boosting valve. Supply pressure is boosted using an air over oil piston to the secondary pressure supplying the circuit.  
Available in 2, 3, and 5 times boosting ratios.

[Specifications]

|   |  |
|---|--|
| Boosting ratio :                          | 2 times (AU2520) 3 times (AU2530) 5 times (AU2850) |
| Primary side supply pressure (MPa) :      | 3.0 ~ 12.5 (AU2520)                                |
|   | 2.0 ~ 8.4 (AU2530)                                 |
|   | 2.0 ~ 7.0 (AU2850)                                 |
| Secondary side discharge pressure (MPa) : | 6.0 ~ 25.0 (AU2520 AU2530)                         |
|   | 10.0 ~ 35.0 (AU2850)                               |

## BU

NON-LEAK BOOSTER VALVE



Hydraulic 7MPa

Hydraulic 25MPa

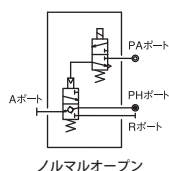
In-line, compact, pressure boosting unit.  
Secondary pressure is boosted automatically from primary pressure.  
Available in 2.2, 3 and, 6 times the boosting ratios.

[Specifications]

|   |  |
|---|--|
| Boosting ratio :  | 1 : 2.2 (BU5020) 1 : 3 (BU5030) 1 : 6 (BU5060) |
| Primary side supply pressure (MPa) :                      | 5.0 ~ 11.4 (BU5020)                            |
|   | 3.0 ~ 8.4 (BU5030)                             |
|   | 1.5 ~ 4.2 (BU5060)                             |
| Secondary side discharge pressure (MPa) :                 | 11 ~ 25.0 (BU5020)                             |
|   | 9.0 ~ 25.2 (BU5030 BU5060)                     |
| Discharge volume in boosting process (cm <sup>3</sup> ) : | 30 (BU5020) 23 (BU5030) 12 (BU5060)            |

# BAS

NON-LEAK VALVE



Hydraulic 7MPa

Hydraulic 30MPa

Pressure is held if pressure supply from the hydraulic source is stopped.

Capable of checking pressure if a valve equipped with a pressure switch is used.

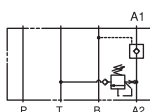
[Specifications]

Min. passage area (mm<sup>2</sup>) : P→A : 8 A→R : 44

Operating pressure (MPa) : 2.5 ~ 30.0

# BSP

NON-LEAK PILOT CHECK VALVE



Hydraulic 7MPa

Hydraulic 25MPa

Pressure is held if pressure supply from the hydraulic source is stopped.

Capable of holding the hydraulic cylinder action.

Mounting surface conforming to ISO 4401-03.

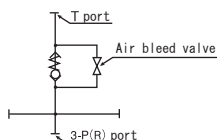
[Specifications]

Min. passage area (mm<sup>2</sup>) : 24

Operating pressure (MPa) : 2.5 ~ 25.0

# BX

AUTO AIR BLEED VALVE



Hydraulic 25MPa

Air release valve that automatically releases air within the hydraulic circuit during ON/OFF cycles, installed at the top of the hydraulic lines.

[Specifications]

Drain volume (cm<sup>3</sup>/action) : 10 (Air only) 0.6 (Oil only)

Cracking pressure (MPa) : 0.04

Min. operating flow rate (cm<sup>3</sup>/min) : 50

Operating pressure (MPa) : max 25.0

# JB

PRESSURE SWITCH



Hydraulic 39.2MPa

Used for checking the internal pressure of a circuit.  
Resistant to vibration of 30G.

[Specifications]

Set pressure range INC (MPa) : 0.7 ~ 39.2

DEC (MPa) : 0.4 ~ 36.2

[Options]

• LED lamp • Neon lamp

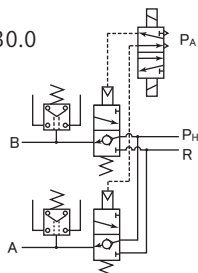
# BC

Hydraulic 7MPa

Hydraulic 30MPa

Non-leak valve unit with pressure switch.  
Remotely operated by electrical control.

Operating pressure (MPa) : 2.5 ~ 30.0



Double-action circuit

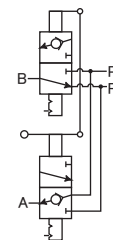
# BH

Hydraulic 7MPa

Hydraulic 30MPa

Non-leak valve unit using manual operation.  
Normal open and normal closed types available.

Operating pressure (MPa) : 2.5 ~ 30.0



Double-action circuit

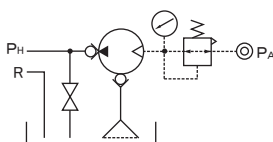
# CB

Hydraulic 7MPa

Hydraulic 43.5MPa

Air driven pump unit to be used in combination with  
a three-port non leak valve unit (BC and BH) .

Discharge pressure (MPa) : 2.4 ~ 43.5  
2.5 ~ 30.0 (combination with BC and BH)



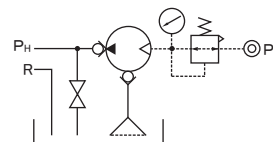
# CC

Hydraulic 7MPa

Hydraulic 64.7MPa

High flow rate, air-driven pump unit to be used in  
combination with a 3-port non leak valve unit (BC and BH) .

Discharge pressure (MPa) : 2.3 ~ 64.7  
2.5 ~ 30.0 (combination with BC and BH)



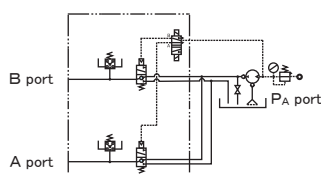
# CP

Hydraulic 7MPa

Hydraulic 30MPa

Compact hydraulic unit consisting of the AB pump,  
valves and pressure switches.

Discharge pressure (MPa) : 2.5 ~ 30.0



Double-action circuit

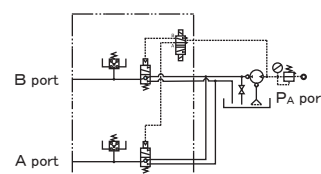
# CS

Hydraulic 7MPa

Hydraulic 30MPa

Hydraulic unit equipped with the AC pump.  
Used for the system requiring a flow rate higher than  
that of the CP unit.

Discharge pressure (MPa) : 2.5 ~ 30.0



Double-action circuit

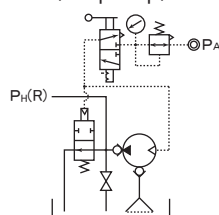
# CV

Hydraulic 7MPa

Hydraulic 64.7MPa

Hydraulic unit with manually operated pump  
and built-in valve.

Discharge pressure (MPa) : 2.4 ~ 43.5 (AB pump)  
2.3 ~ 64.7 (AC pump)



Single-action circuit

# BZW/BZL/BZT

Speed Control Valve



Air



Hydraulic

Air pressure 1MPa

Hydraulic 7MPa

Hydraulic 35MPa

Direct mount flow control valves allow the adjustment of individual actuators within the circuit.  
Available in both low and high pressure.

[Specifications]

Fluid to be used : Air (BZW) General hydraulic oil (BZL,BZT)

Operating pressure (MPa) : max. 1.0 (BZW) max. 7.0 (BZL) max. 35.0 (BZT)

# BZX/JZG

Direct mount Port Plugs with Venting capabilities



Air bleed valve



G thread plug

Hydraulic 7MPa

Hydraulic 35MPa

BZX: Air bleed valve.

JZG: BSPP (G) plug with an air venting function.

The air is vented at the equipment end, improving the stability of the hydraulic system.

[Specifications]

Fluid to be used : General hydraulic oil

Operating pressure (MPa) : max 25. (BZX) max35. (JZG)

# CLAMP LEVER

Taper lock lever



Corresponding product model : LG LHA LT TLA TLB WHA



Quick-change lever



Corresponding product model : LHA TLA TLB



Standard link lever



Corresponding product model : LJ LM WCA

Link lever blank



Corresponding product model : LJ LKA LM WCA TMA

Tip shape of lever



# MOUNTING BLOCK



**Bulkhead nut**

Corresponding product model :

DP DR DS DT



**Flanged nut**

Corresponding product model :

DP DR DS DT LD TNC WD



**Piping block**

Corresponding product model :

DP



**Piping block**

Corresponding product model :

DR LD TNC WD



**Manifold block**

Corresponding product model :

LC LG LHA LJ LKA LM LT TMA



**Manifold block**

Corresponding product model :

DP



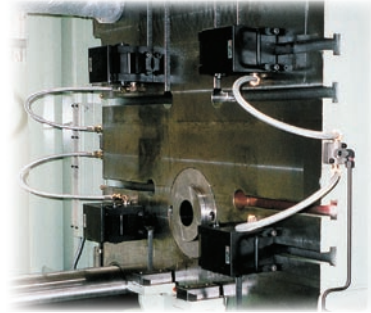
## ■ Product lineup

We manufacture a wide range of clamping systems and components. Feel free to contact us.



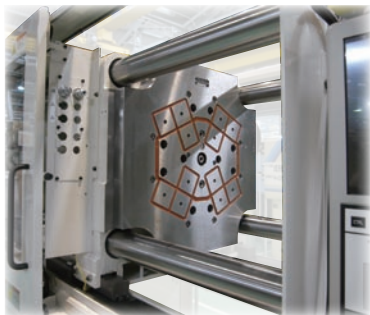
### ■ QUICK DIE CHANGE SYSTEMS

This clamp system enables single minute die change.  
Used on all sizes and types of stamping presses.



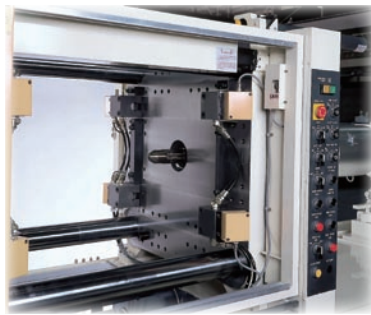
### ■ KOSMEK DIECAST CLAMPING SYSTEMS

Safe and stable clamp system for diecast machines under severe conditions such as high temperature and sticky release agent etc.



### ■ QUICK MOLD CHANGE SYSTEMS

Mold is secured with magnetic force.  
Available for machines larger than 300 kN.



### ■ QUICK MOLD CHANGE SYSTEMS

Full line up of hydraulic and pneumatic clamps.  
For all injection molding applications.

**KOSMEK**  
Harmony in Innovation

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