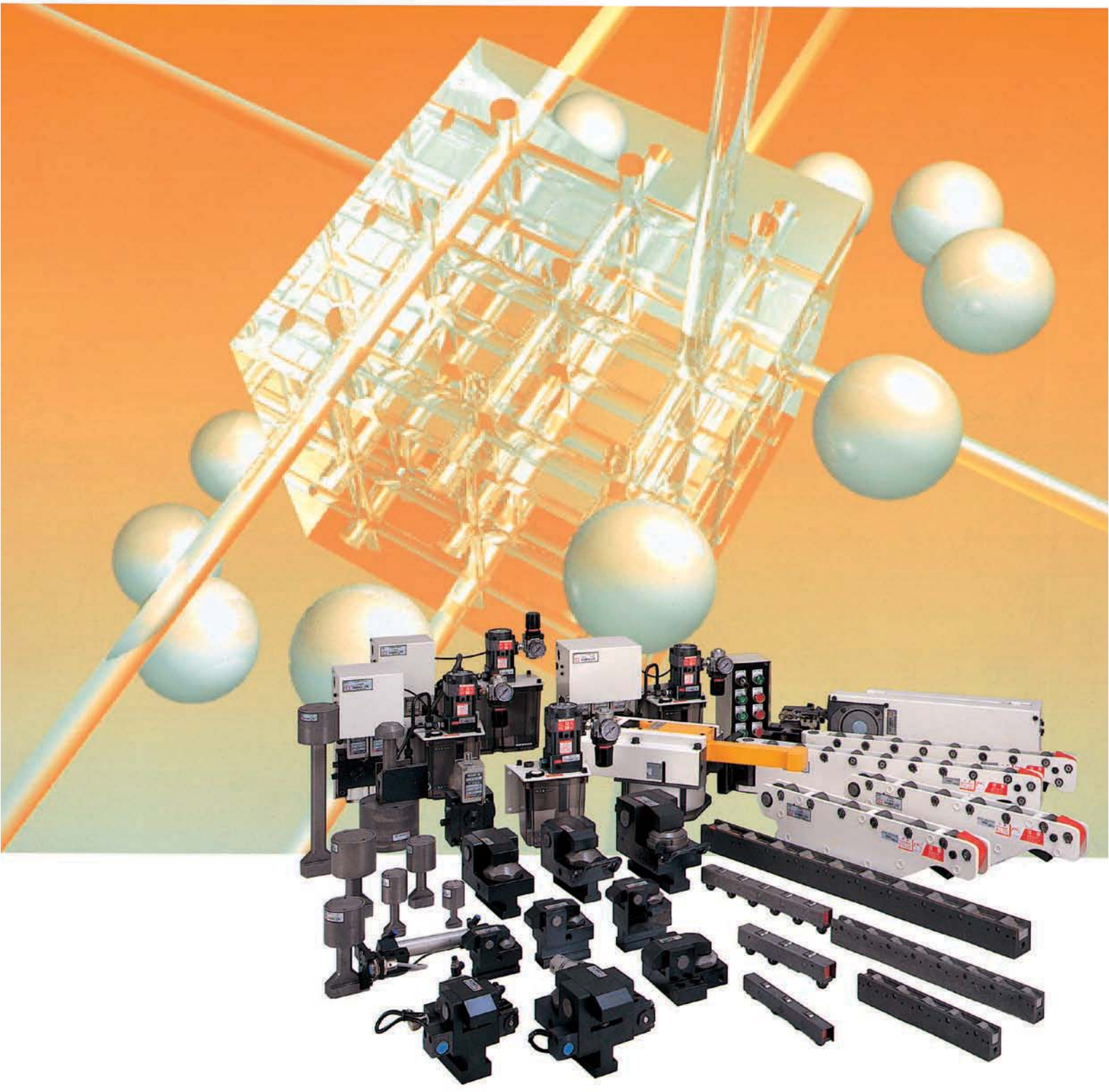
QUICK DIE CHANGE SYSTEMS

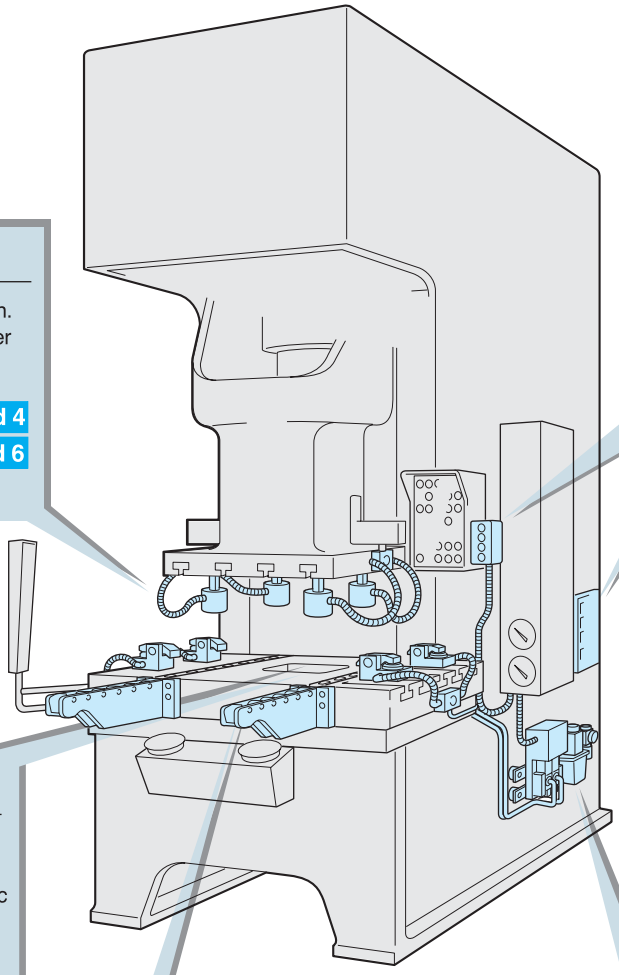
QDCS



KOSMEK®

Quick Die Change System

Light Duty (C Frame)



Clamp

Clamps fix the die in position. They lock by hydraulic power and release by spring.

GA Clamp	p. 3 and 4
GB Clamp	p. 5 and 6

Operation Control Panel

Die change operation is easily controlled from operator panel. Interlocks with press assure safe operation.

p.21 and 22

Die Lifter

Die lifters install in T- or U-slots in the bolster and lift the die for loading and unloading. Hydraulic and spring types are available.

Hydraulic type MRA Roller
Spring type MRB Roller

Refer to CAT.NO.MRA001-**-02

Pre-Roller

Bolster extensions assist moving the die off the press for easy loading and unloading by crane or forklift.

MRC Roller
MRD Roller
MRE and MRF Roller

Refer to CAT.NO.MRA001-**-02

Hydraulic Power Unit

Compact hydraulic unit consisting of pump, non leak valve, and pressure switch.

CP Unit	p.15
CS Unit	p.16

When installation space is limited, separate type pump and valve units are also available.

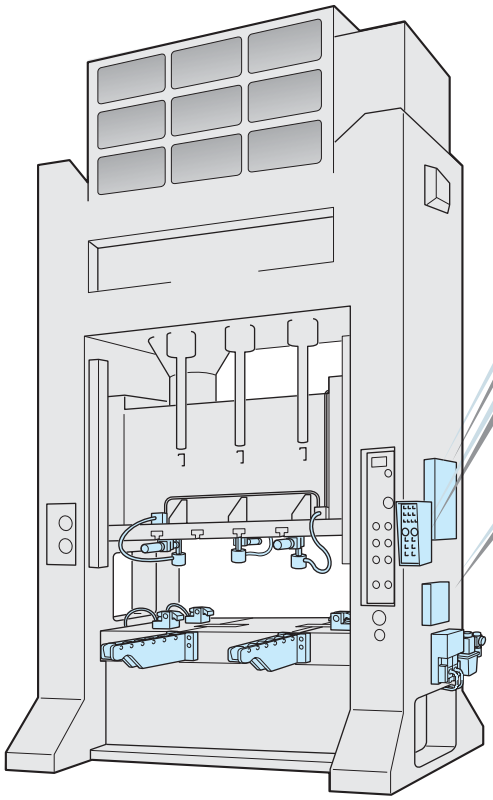
CB Unit	p.17
CC Unit	p.18
BC Unit	p.19

Today's factories are moving to Single Minute Setups, improving the working environment, preparing for diversified and small-lot production, and continuing the quest for cost reduction.
KOSMEK QDCS (Quick Die Change Systems) provide an effective tool for achieving these goals.

QDCS

Medium Duty (Straight Side)

QDCS for the gate-shaped press with a large slide surface has a T-groove auto slide type using an air cylinder. You can choose this type according to the press capacity and mold specifications.



Operation Control Panel

Die change operation is easily controlled from operator panel. Interlocks with press assure safe operation.

p.21 and 22

Air Valve Unit

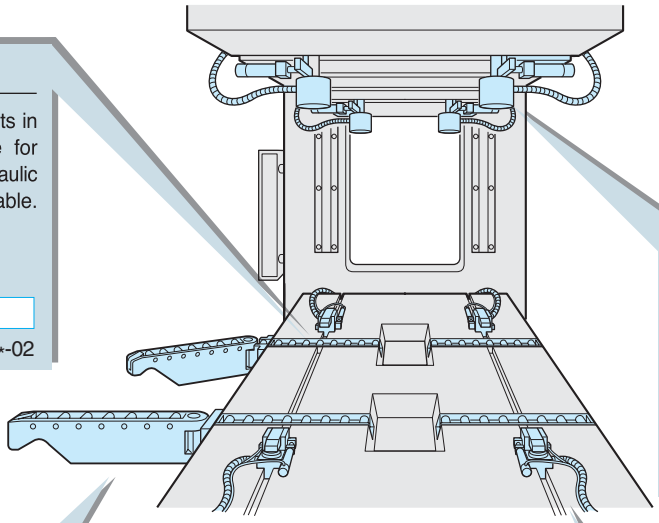
Air cylinders of GD and GE clamps are controlled with an air valve unit.

p.20

Hydraulic Power Unit

Compact hydraulic unit consisting of pump, non leak valve, and pressure switch.

CP Unit p.15
CS Unit p.16



Die Lifter

Die lifters install in T-or U-slots in the bolster and lift the die for loading and unloading. Hydraulic and spring types are available.

MRA Roller

Refer to CAT.NO.MRA001-**-02

GD Clamp

GA clamps combined with air cylinders for automatic positioning.

p. 7 and 8

Pre-Roller

Bolster extensions assist moving the die off the press for easy loading and unloading by crane or forklift.

MRC Roller
MRD Roller
MRE and MRF Roller

Refer to CAT.NO.MRA001-**-02

GE Clamp

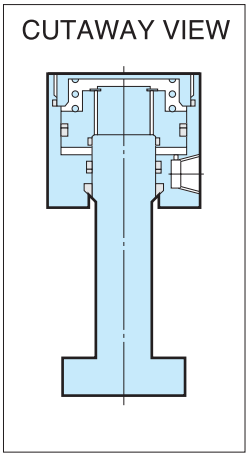
GB clamps combined with air cylinders for automatic positioning.

p.9 and 10

MODEL

GA CLAMP

CUTAWAY VIEW



MODEL CODE

GA [063] [0] — [HPV] — [5] [L] [T＊＊＊]

① Design No. ② ③ ④

This number represents the main specification of the clamp's T-slot stem and the clamping height.After the specification is confirmed, we will createa number.

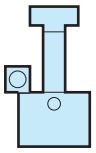
① Capacity (See specifications)

② Options
- A : Slide rod type (U-cut)
- B : Slide rod type (tap)
- F1 : Fixed type (Embedded type 0250 - 1000)
- F2 : Fixed type (Flange type)
- H : Extra height type (Rod matevial to be manufactured after receiving an order.)
- P : With proximity switch for die detection (0400 and larger)
- S1 : Long stroke 12.5 mm
- S2 : Long stroke 20 mm
- T : T-slot lock type
- N : NPT port type
- V : High temperature type (70 - 120℃)

*Following designations are required for "P" type.

③ Switch load voltage (current)
- 1 : AC100V
- 2 : AC200V
- 5 : DC 24V (5 - 40 mA)

④ Switch mounting position
- L : As illustrated
- R : Reverse of illustration



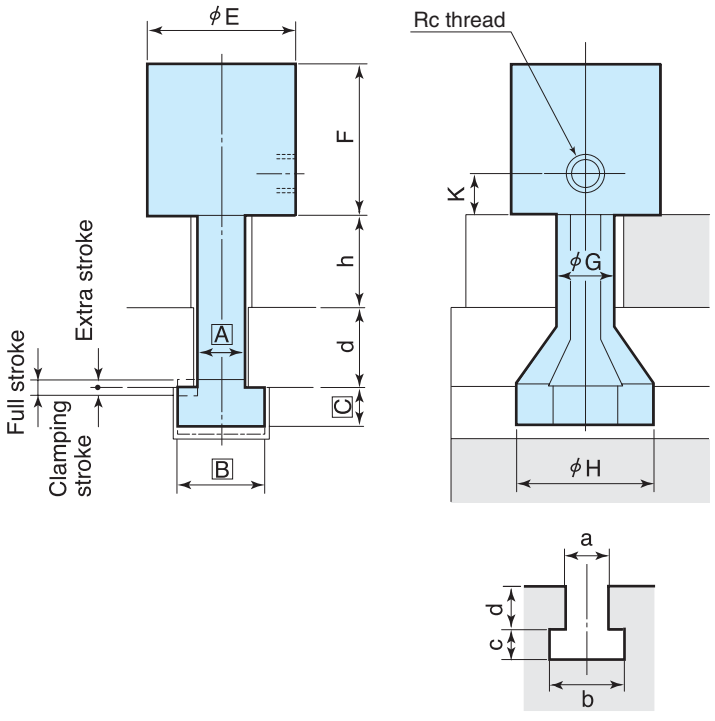
e.g. GA0400-HV-T11
- Clamp capacity 39.2 kN
- Extra height type
- High temperature type
- T111⇒h=50 A=20.5 B=36 C=19 d=60

SPECIFICATIONS

Model		GA0100	GA0160	GA0250	GA0400	GA0630	GA1000	GA1600	GA2500
Clamping Force	(kN)	9.8	15.7	24.5	39.2	61.7	98	157	245
Working Pressure	(MPa)	24.5 (for rated clamp force)							
Max Working Pressure	(MPa)	27.0							
Max Rated Pressure	(MPa)	36.8							
Full Stroke	(mm)	6	8						
Clamping Stroke	(mm)	4	5						
Extra Stroke	(mm)	2	3						
Cylinder Cap at Full Stroke	(cm^3)	2.5	5.7	8	13	21	31	54	76
Working Temperature		0 - 70℃ (V type is available for 70℃- 120℃)							
Frequency of Use		20 times/day (please contact us for more frequent use.)							
Working Fluid		ISO - VG - 32 or equivalent							
Min T-slot Dimension "a" (JIS)	(mm)	8	10	12	16	18	22	28	36
Max T-slot Dimension "a" (JIS)	(mm)	20	24	32	42	42	54		

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower.
*3. Action at low temperature will be slower as fluid viscosity is higher.

OUTLINE DIMENSIONS

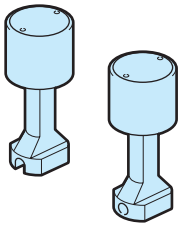
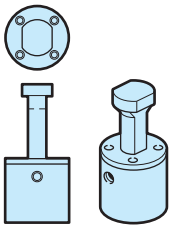
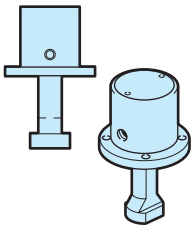
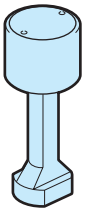
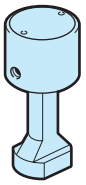
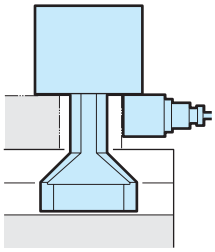
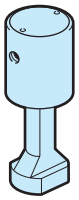
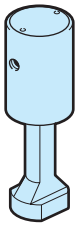
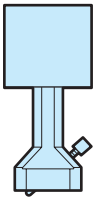
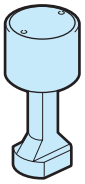


OUTLINE DIMENSIONS

Model	E	F	G	H	K	MIN.C	Rc	MAX.h+d
GA0100	40	39	12	30	10	5	1/8	60
GA0160	43	48	15	38	12	6	1/8	70
GA0250	53	52	18.5	48	12	7	1/4	80
GA0400	62	58	23.5	58	15	9.5	1/4	90
GA0630	78	65	28.5	68	15	11	1/4	100
GA1000	98	71	38.5	78	15	15	1/4	110
GA1600	126	82	48.5	88	15	19	1/4	120
GA2500	150	100	58.5	98	15	24	1/4	140

*1. Clamping strokes and extra strokes shown are standard; Custom strokes are available upon request.
*2. Dimensions A, B and C are determined from T-slot dimensions.
*3. Specify T-slot dimensions (a,b,c,d) and clamping height (h) when ordering.
*4. Clamps with a dimension greater than MAX h+d are optionally available (H type).

GA type is space efficient and
locks in the U-slot of the die.

A / B	F 1	F 2	H	N
Slide rod type : U-slot Slide rod type : tap 	Fixed type : Embedded type (0250 - 1000) 	Fixed type : Flange type 	Extra height type 	NPT port type 
P	**S 1**	**S 2**	**T**	**V**
Proximity switch for die detection (0400 and larger) 	Long stroke : 12.5 mm 	Long stroke : 20 mm 	T-slot lock type 	High temperature type 70℃ - 120℃ 

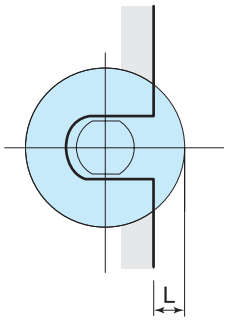
〈 Precautions for mounting and operation 〉

1.Working pressure should be 24.5 MPa.

2.T-slot and clamp surface must be parallel, otherwise the clamp may deform and cause oil leakage.

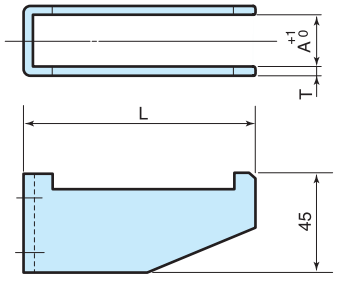
3.Never allow clamp overhang to exceed L (shown below)

● GA CLAMP : ALLOWABLE OVERHANG

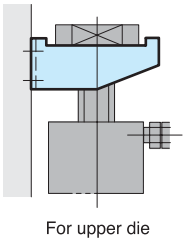


Model	L (mm)
GA0100	13
GA0160	14
GA0250	17
GA0400	20
GA0630	26
GA1000	32
GA1600	42
GA2500	50

● OPTION : CLAMP HANGER

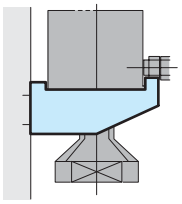


Example



For upper die

For lower die

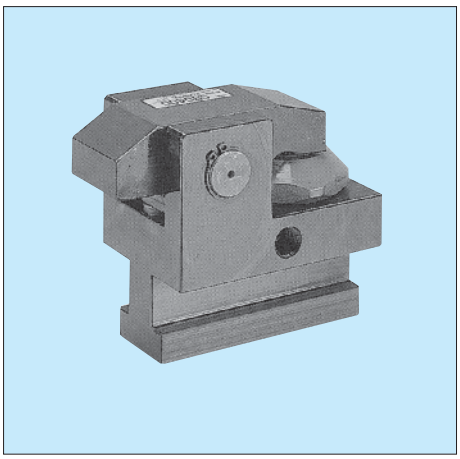


Model	Dimension			Applicable model	
	A	L	T	T- slot "a"	Clamp Model
GAH221	22	125	3.2	20 - 22	GA0160 - 1000
GAH281	28	125	3.2	24 - 28	GA0250 - 1000

Note) 1. Don't operate the press while clamps are on hangers.
(Clamp hangers should be used only during die change.)

MODEL

GB CLAMP



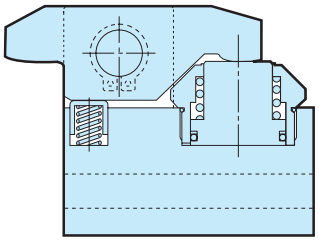
MODEL CODE

GB 063 0 — KLP — 5 L — T＊＊＊

① Design No. ② ③ ④

This number represents the main specification of the clamp's T-slot stem and the clamping height.After the specification is confirmed, we will createa number.

CUTAWAY VIEW



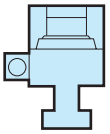
① Capacity(See specifications)

② Options
- A : Slide rod type (U-cut)
- B : Slide rod type (Tap)
- D : With handle (0630 and larger)
- E : Reinforced body (to be manufactured after receiving an order.)
- H : Extra height type (Body, material to be manufactured after receiving an order)
- J : Low lever type (less than min "h")
- K : Rear port
- L : Wide lever (for U-cut in die)*1
- N : NPT port
- P : With proximity switch for die detection (0400 and larger)*2
- T : T-slot lock type
- V : High temperature type (70 - 120℃)
- W : With check valve (1000 and larger)
- Y : For diecast machine

*1 Always specify U cut dimension of the mold.

*2 The following code is required only when "P" is selected from Options.

③ Switch load voltage (current)
- 1 : AC100V
- 2 : AC200V
- 5 : DC 24V (5 - 40mA)



④ Switch mounting position
- L : As illustrated
- R : Reverse of illustration

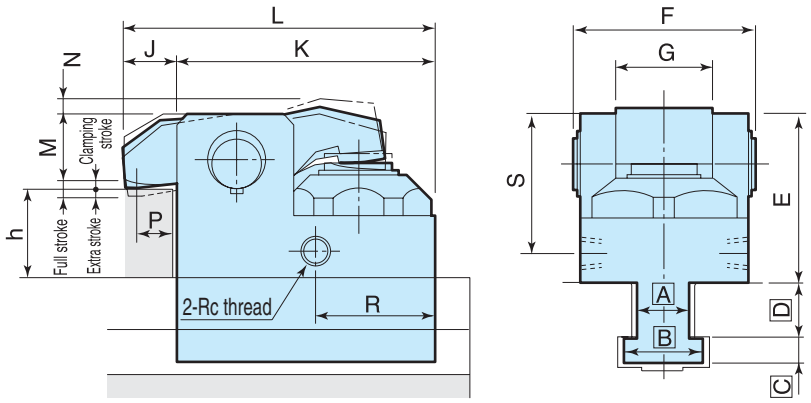
e.g. GB0630-DP-1R-T111
- Clamp capacity 61.7kN
- with handle
- with proximity switch for die detection AC100V
- Switch position is right side when viewed from rear
- T111⇒h=50 A=20.5 B=35 C=14 D=22.7

SPECIFICATIONS

Model	GB0100	GB0160	GB0250	GB0400	GB0630	GB1000	GB1600	GB2500
Clamping Force (kN)	9.8	15.7	24.5	39.2	61.7	98	157	245
Working Pressure (MPa)	24.5 (for rated clamp force)							
Max Working Pressure (MPa)	27.0							
Max Rated Pressure (MPa)	36.8							
Full Stroke (mm)	6	7			8			
Clamping Stroke (mm)	3	3.5			4			
Extra Stroke (mm)	3	3.5			4			
Cylinder Cap at Full Stroke (cm^3)	2.5	4.8	7.2	11.9	21.6	34.7	55.2	85.9
Working Temperature	0 - 70℃ (V type is available for 70 - 120℃)							
Frequency of use	20 times/day (please contact us for more frequent use.)							
Working Fluid	ISO - VG - 32 or equivalent							
Min T-slot dimestion "a" (JIS) (mm)	10	12	14	18	22	24	28	36
Max T-slot dimestion "a" (JIS) (mm)	20	24	32	42	42	54		

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower.
*3. Action at low temperature will be slower as fluid viscosity is higher.

OUTLINE DIMENSIONS

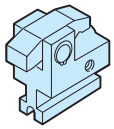
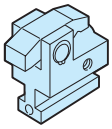
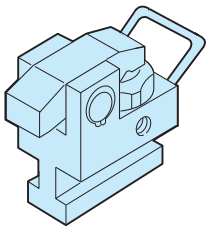
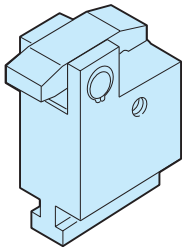
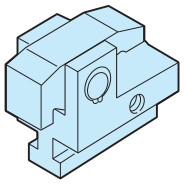
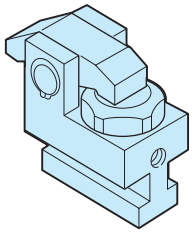
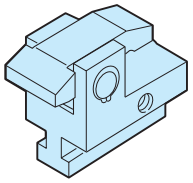


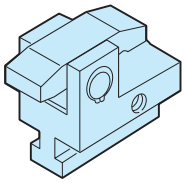
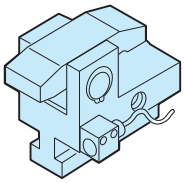
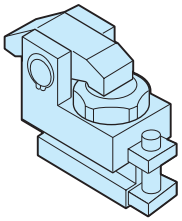
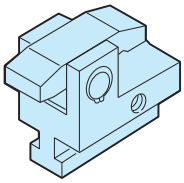
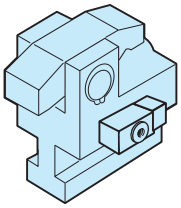
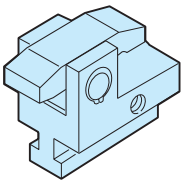
● OUTLINE DIMENSIONS

Model	MIN.E	F	G	J	K	L	M (h)			MAX.N	P	R	S	Rc	MIN.C	MAX.h
GB0100	44.5	43	20	15	58	73	16.5 (25 -)	21.5 (20 - 25)	—	5.5	10	33	34.5	1/8	6.5	40
GB0160	51	53	26	18	70	88	17.5 (30 -)	22.5 (25 - 30)	27.5 (20 - 25)	6.5	12.5	37	41	1/8	8	40
GB0250	59	63	32	20	84	104	21.5 (34 -)	26.5 (29 - 34)	31.5 (24 - 29)	6.5	14	43.5	47	1/4	9.5	50
GB0400	67.5	73	40	23	105.5	128.5	29.5 (35 -)	34.5 (30 - 35)	39.5 (25 - 30)	6.5	16	51.5	56	1/4	12	50
GB0630	81	93	50	30	130	160	29.5 (47.5 -)	39.5 (37.5 - 47.5)	49.5 (27.5 - 37.5)	8	20	49	69	1/4	14	60
GB1000	108	103	55	30	159	189	44 (60 -)	54 (50 - 60)	64 (40 - 50)	8	20	68	95	1/4	16.5	70
GB1600	130	124	60	30	199	229	61 (65 -)	71 (55 - 65)	81 (45 - 55)	9	20	73	116	1/4	20	80
GB2500	152	152	73	30	240	270	78 (70 -)	88 (60 - 70)	98 (50 - 60)	9.5	20	69.5	135	1/4	23	80

*1. Clamping strokes and extra strokes shown are standard; Custom strokes are available upon request.
*2. Dimensions A, B, C and D are determined from T-slot dimensions.
*3. Specify T-slot dimensions (a,b,c,d) and clamping height (h) when ordering.
*4. Specify (d) and (h) within 0.1mm
*5. Clamps with a dimension greater then MAX h are optionally available (H type).

GB type is universal, and requires
only a flat ledge on the die.

A / B	D	H	J	K	L
A.Slide rod type: U-slot  B.Slide rod type: tap 	With handle (0630 and larger) 	Extra height type (h greater than std.) 	Low lever (less than min h) 	Rear port type 	Wide lever type 

N	P	T	V	W	E
NPT port 	With proximity switch for die detection (0400 and larger) 	T-slot lock type 	High temperature type (70 – 120℃) 	With check valve (1000 and larger) 	Reinforced body  For undersize or large tolerance T-slot.

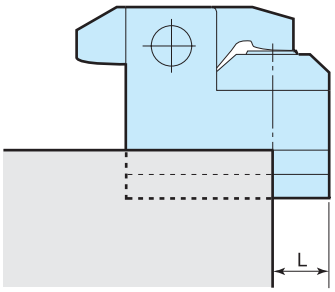
〈 Precautions for mounting and operation 〉

1.Working pressure should be 24.5 MPa.

2.T-slot and clamp surface must be parallel. Otherwise, the clamp may sustain damage.

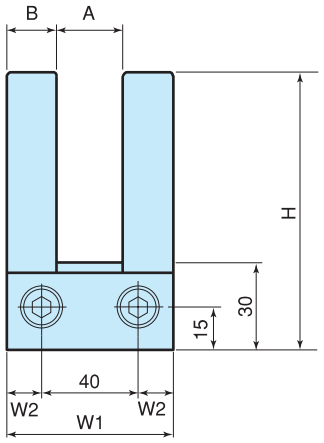
3.Never allow clamp overhang to exceed L (shown below).

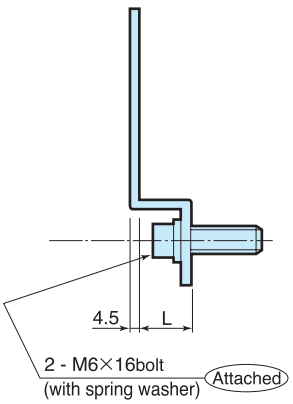
● GB CLAMP: ALLOWABLE OVERHANG



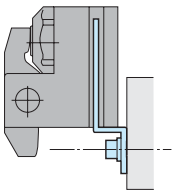
Model	L (mm)
GB0100	17.5
GB0160	21.0
GB0250	25.0
GB0400	32.0
GB0630	39.0
GB1000	45.0
GB1600	57.0
GB2500	69.5

● OPTION: CLAMP HANGER OUTLINE DIMENSIONS





Example

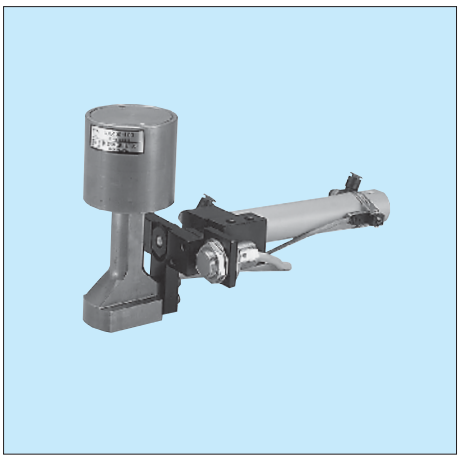


Model	GBH181	GBH221	GBH281
A	18	22	28
B	21	19	21
H	100		110
W1	60		70
W2	10		15
L	19		25

Note) Don't operate the press while clamps are on hangers. (Clamp hangers should be used only during die change.)

MODEL

GD CLAMP



MODEL CODE

GD 040 0 — 75 — 5 R — H — T＊＊＊

① Design NO. ② ③ ④ ⑤

This number represents the main specification of the clamp's T-slot stem and the clamping height.After the specification is confirmed, we will createa number.

① Capacity (See specifications)

② Slide stroke (See outline dimension)*1
- 75 : Clamp travel distance 75 mm
- 125 : Clamp travel distance 125 mm
- *When determining the travel distance, extra distance must be considered.

③ Switch voltage (current)
- 1 : AC100V
- 2 : AC200V
- 5 : DC 24V (5 - 40 mA)

④ Switch mounting position
- L : As illustrated
- R : Reverse of illustration

⑤ Options
- H : Extraheight type (Rod material to be manufactured after an order placed)
- S1 : Long stroke 12.5 mm
- S2 : Long stroke 20mm
- N : Piping port with NPT*1
- V : For high temperature (70 - 120℃)

*1 When "N" is selected from Options, each dimension is described in "inch"in the specifications and other documents. However the slide stroke is shown by mm value as a symbol.

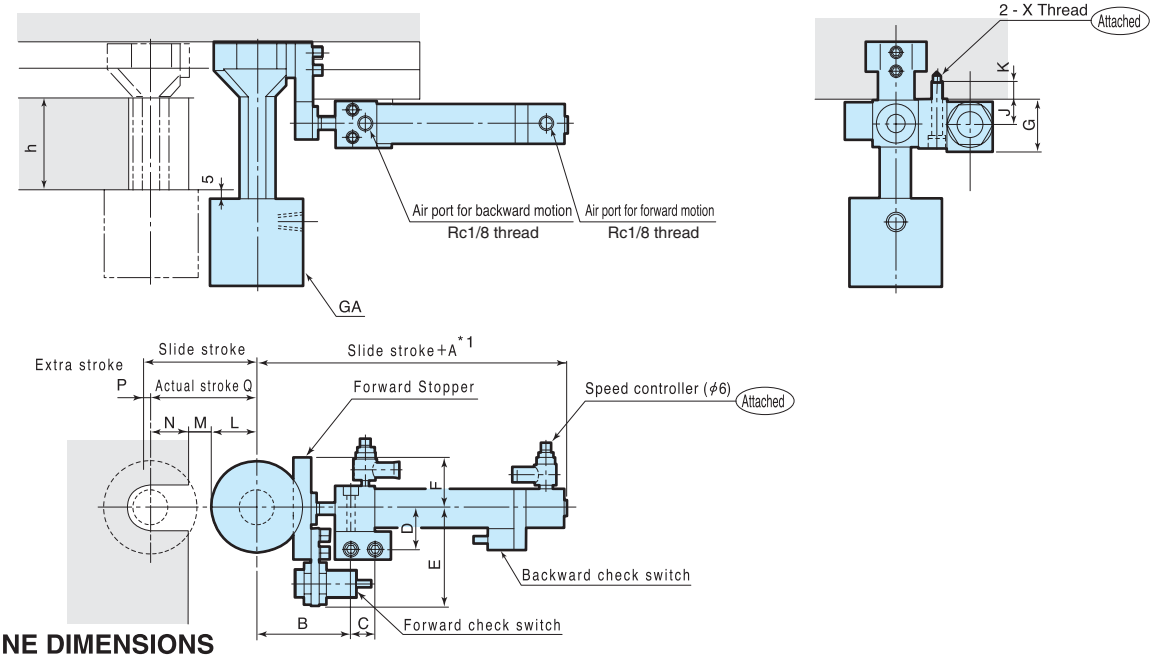
e.g. GD0400-100-5R-H-T111
- Clamp capacity 39.2 kN
- Slide distance 100 mm
- DC24V
- Switch position as illustrated
- Extra height type
- T111⇒h=50 A=20.5 B=36 C=19 d=60

SPECIFICATIONS

Model		GD0250	GD0400	GD0630	GD1000	GD1600
Clamping Force	(kN)	24.5	39.2	61.7	98	157
Working Pressure	(MPa)	24.5 (for rated clamp force)				
Max Working Pressure	(MPa)	27.0				
Max Rated Pressure	(MPa)	36.8				
Slide Stroke*1	(mm)	75 - 150		100 - 150	100 - 200	125 - 200
Driving Air Pressure*2	(MPa)	0.39 - 0.49				
Switch Voltage		AC100V / AC200V / DC24V				
Working Teperature		0 - 70℃ (V type is available for 70 - 120℃)				
Frequency of Use		20 times/day (please contact us for more frequent use.)				
Working Fluid		ISO - VG - 32or equivalent fluid				

*1. If the stroke exceeds the value shown in the specifications, contact us because the dimension "A" in the outline drawing is different.
*2. Air pressure less than 0.39 MPa may result in malfunction.

OUTLINE DIMENSIONS



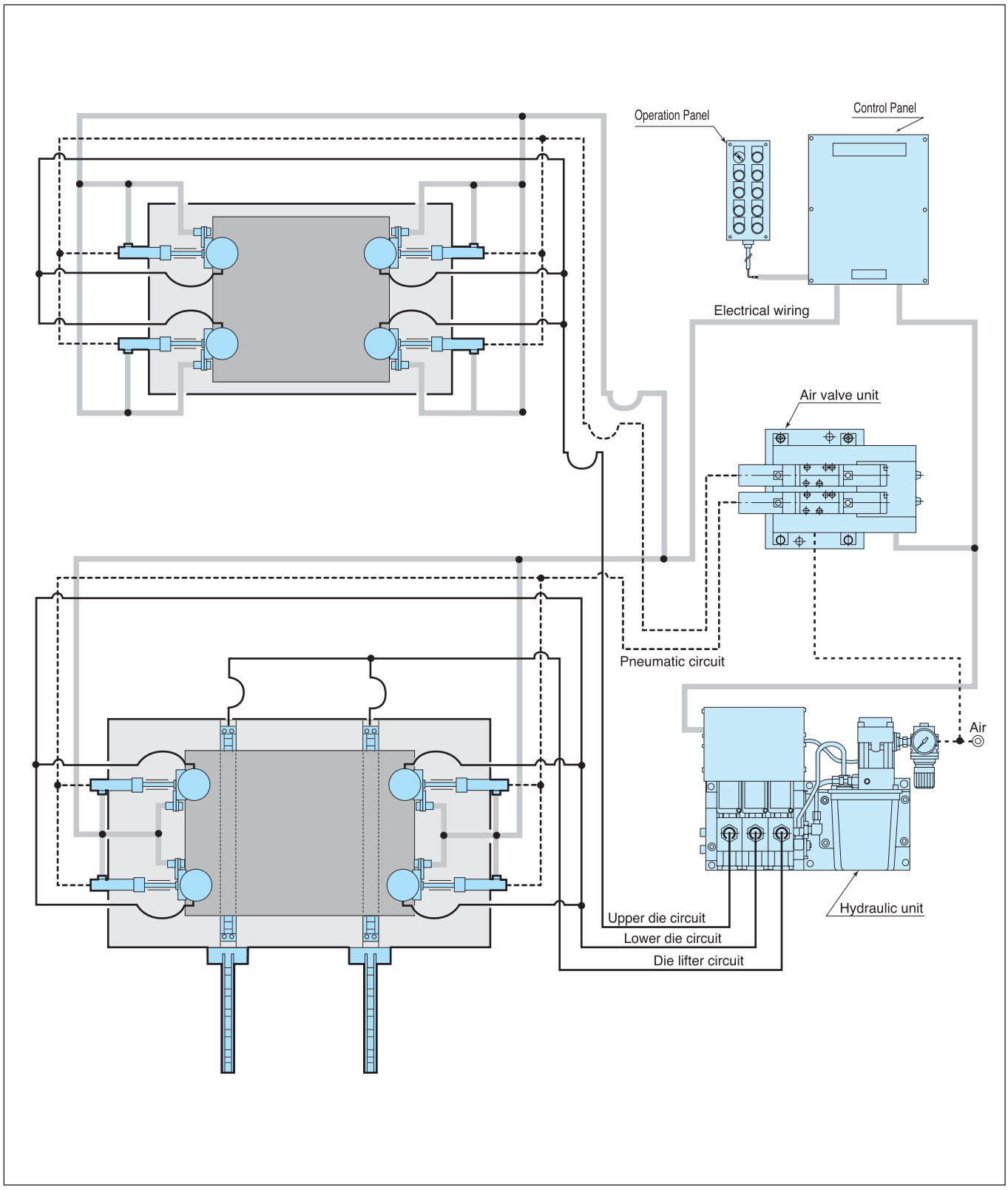
● OUTLINE DIMENSIONS

Model	GA Model	A	B	C	D	E	F	G	J	K	X	MIN.h	Standard Stroke(Semi standard)	L	M	N	P	Q
GD0250	GA0250	124.5	58.5	16	27	64	34	34	16	12	M6	35	75 (100,125,150)	26.5	14	20	14.5	60.5
GD0400	GA0400	129.5	63.5	16	27	64	34	34	16	12	M6	35	75 (100,125,150)	31	14	25	5	70
GD0630	GA0630	134.5	68.5	16	27	64	34	34	16	12	M6	35	100 (125,150)	39	16	30	15	85
GD1000	GA1000	141.5	74.5	20	35	73	43	38	16	16	M8	40	100 (125,150,200)	49	16	30	5	95
GD1600	GA1600	146.5	79.5	20	35	73	43	38	16	16	M8	40	125 (150,200)	63	17	35	10	115

Note) Refer to GA CLAMP (p3) for clamp details.

GD is a GA type clamp with air cylinder for automatic positioning.
It is used for inaccessible areas or at far side of operation.

TYPICAL LAYOUT

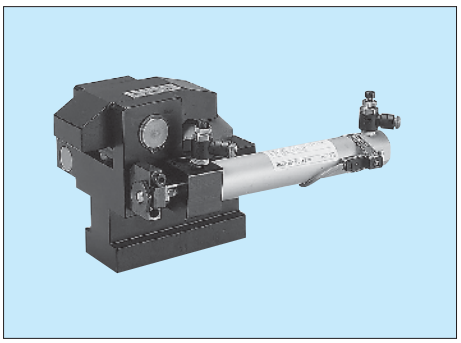


〈 Precautions for mounting and operation 〉

1.Adjust speed controllers so that travel is completed within 2 - 3 seconds.
2.Proximity switch is used for die detections. Each die must have a clear target for the switch.
3.Sliding surfaces should be smooth.

MODEL

GE CLAMP



MODEL CODE

GE 040 1 — 125 — 1 L — E — T＊＊＊

① Design No. ② ③ ④ ⑤

This number represents the main specification of the clamp's T-slot stem and the clamping height.After the specification is confirmed, we will createa number.

① Capacity (See specifications)

② Slide stroke (See outline dimension)*2
75: Clamp travel distance 75 mm
180: Clamp travel distance 180 mm
*When determining the travel distance, extra distance must be considered.

③ Air cylinde load voltage (current)
1: AC100V
2: AC200V
5: DC24V(5 - 40 mA)

④ Switch mounting position
L : As illustrated
R: Reverse of illustration

⑤ Options
E: Reinforced body material
H: High type (Rod material to be manufactured after an order placed)
J: Low type lever (when lower than minimum height)
K: Rear side piping
L: Wide lever (for U cut mold)*1
N: Piping port with NPT*2
Q: Double cylinder
S: Special spacer
V: For high temperature (70 - 120℃)
Y: For diecast machine

*1 Always specify U cut dimension of the mold.
*2 When "N" is selected from options, each dimension is described in "inch"in the specification and other documents. However the slide stroke is shown by mm value as a symbol.

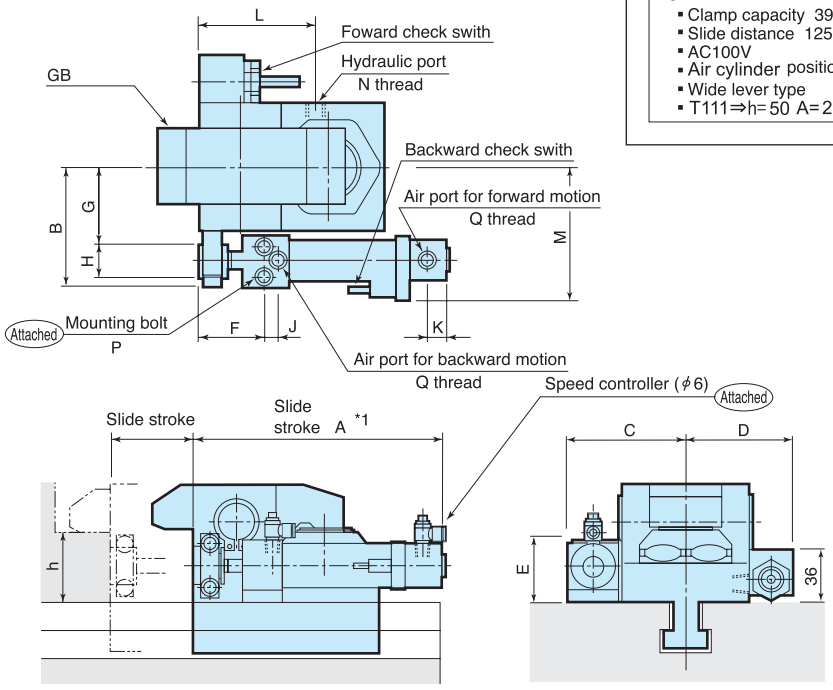
e.g. GE0401-125-1L-L-T111
- Clamp capacity 39.2 kN
- Slide distance 125 mm
- AC100V
- Air cylinder position as illustrated
- Wide lever type
- T111⇒h=50 A=20.5 B=35 C=14 D=22.7

SPECIFICATIONS

Model		GE0251	GE0401	GE0631	GE1001	GE1601	GE2501
Clamping Force	(kN)	24.5	39.2	61.7	98	157	245
Working Pressure	(MPa)	24.5 (for rated clamp force)					
Max Working Pressure	(MPa)	27.0					
Max Rated Pressure	(MPa)	36.8					
Slide Stroke*1	(mm)	25 - 200		50 - 200		50 - 300	
Driving Air Pressure*2	(MPa)	0.39 - 0.49					
Switch Voltage		AC100V / AC200V / DC24V					
Working Temperature		0 - 70℃ (V type is available for 70 - 120℃)					
Frequency of Use		20times/day (please contact us for more frequent use.)					
Working Fluid		ISO - VG - 32 or equivalent					

*1. If the stroke exceeds the value shown in the specifications, contact us because the dimension "A" in the outline drawing is different.
*2. Air pressure less than 0.39 MPa may result in malfunction.

OUTLINE DIMENSIONS



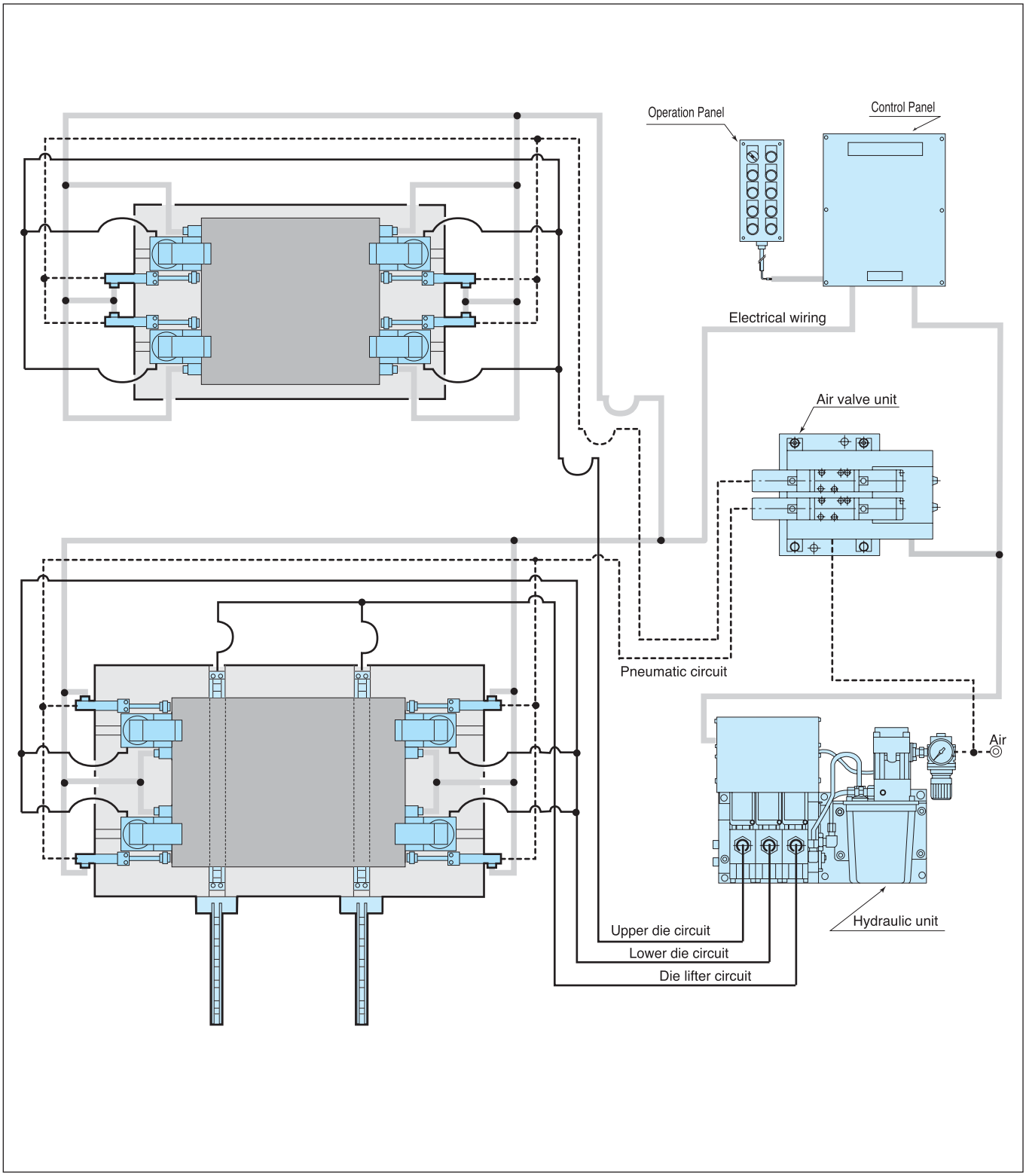
● OUTLINE DIMENSIONS

Model	GB Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P		Q	R
															Mounting bolt	Tapping		
GE0251	GB0250	105	60	63.5	59	37	39	39	18	9	12	73	75.5	Rc1/8	M5 ×0.8×40	M5×0.8Depth 10		
GE0401	GB0400	105	65	68.5	64	37	39	44	18	9	12	93	80.5		M5 ×0.8×40	M5×0.8Depth 10		
GE0631	GB0630	112	81.5	84.5	74	48	45	55	22	10	12	81	96		M6 ×50	M6 ×Depth 12	Rc1/8	φ6
GE1001	GB1000	118	92.5	94.5	78.5	54	46	61	24	13	12	91	106.5	Rc1/4	M8 ×55	M8 ×Depth 16		
GE1601	GB1600	136	112	116.5	88.5	65	56	74	32	14	12	126	128		M10×70	M10 ×Depth 20		
GE2501	GB2500	157	137	142	102	78	64	89	41	16	14	170.5	153		M12×85	M12 ×Depth 24	Rc1/4	φ10

Note) Refer to GB clamp (p5) for clamp details.

GE is a GB clamp with air cylinder for automatic positioning.
It is used for inaccessible areas at far side of operation.

TYPICAL LAYOUT

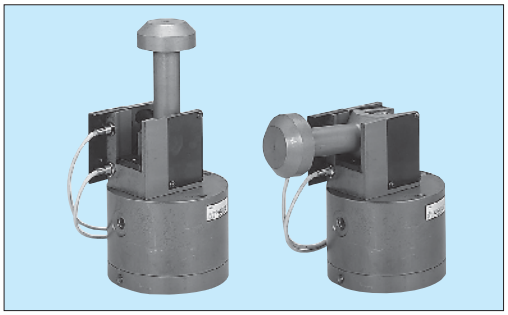


〈 Precautions for mounting and operation 〉

1.Adjust speed controllers so that travel is completed within 2 – 3 seconds.
2.Proximity switch is used for die detection. Each die must have a clear target for the switch.
3.When determining slide stroke, provide the forward end with an extra stroke between 2 and 5 mm considering dimensional accuracy of the air cylinder and detection distance of the proximity switch.
4.Sliding surfaces should be smooth.

MODEL

GN CLAMP



MODEL CODE

GN 063 0 — 35 — 5 — V

① Design No. ② ③ ④

NON STOCKING ITEM

① Capacity (See specifications)

② Mold thickness (h dimension)*1
25 : h dimension 25 mm
'
50 : h dimension 50 mm

③ Switch load voltage (current)
1 : AC100V
2 : AC200V
5 : DC 24V (5 - 40 mA)

④ Options
N : Piping port with NPT*1
V : For high temperature (70 - 120℃)

*1When "N" is selected from options, each dimension is described in "inch"in the specifications and other documents. However the die thickness is shown by mm value as a symbol.

e.g. GN0630-40-2
- Clamp capacity 61.7 kN
- Clamp height 40 mm
- AC200V

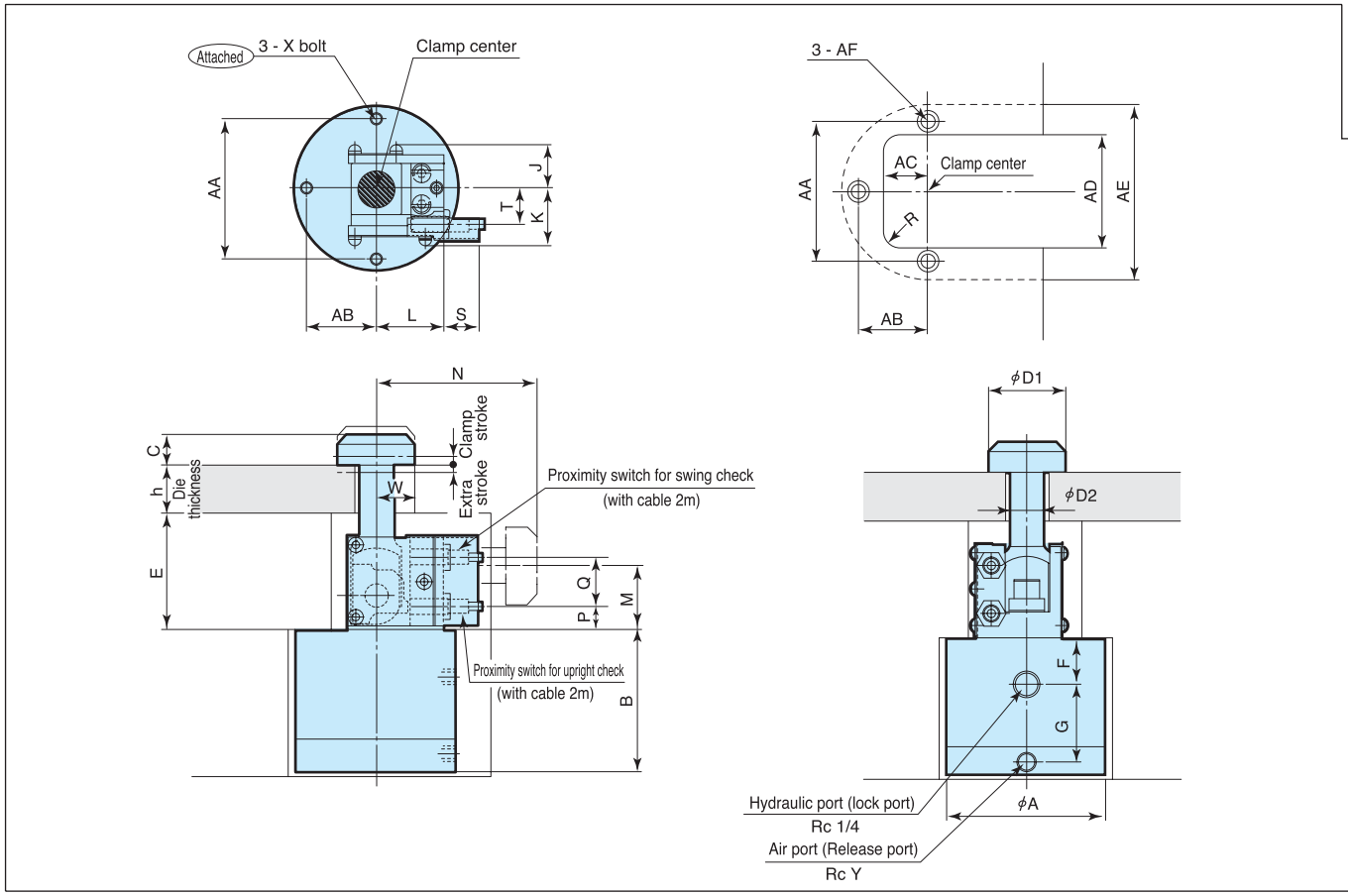
NOTE All types shall be produced after an order received.If you place an order, ask delivery time in advance.

SPECIFICATIONS

Model		GN0250	GN0400	GN0630	GN1000
Clamping Force (kN)		24.5	39.2	61.7	98
Working Pressure (MPa)		24.5 (for rated clamp force)			
Max Working Pressure (MPa)		27.0			
Max Rated Pressure (MPa)		36.8			
Swing Angle		90°			
Full Stroke (mm)		6	7.5	10	12
Clamp Stroke (mm)		4	5	7	9
Extra Stroke (mm)		2	2.5	3	
Cylinder Capacity	Lock (cm^3)	18.6	36	73.9	157.9
	Release (cm^3)	27.4	53.5	115.5	241.8
Swing Air Pressure (MPa)		0.39 - 0.49			
Switch Voltage		AC100V / AC200V / DC24V			
Working Temperature		0 - 70℃ (V type is available for 70 - 120℃)			
Frequency of Use		20 times/day (please contact us for more frequent use.)			
Working Fluid		ISO - VG - 32 or equivalent			

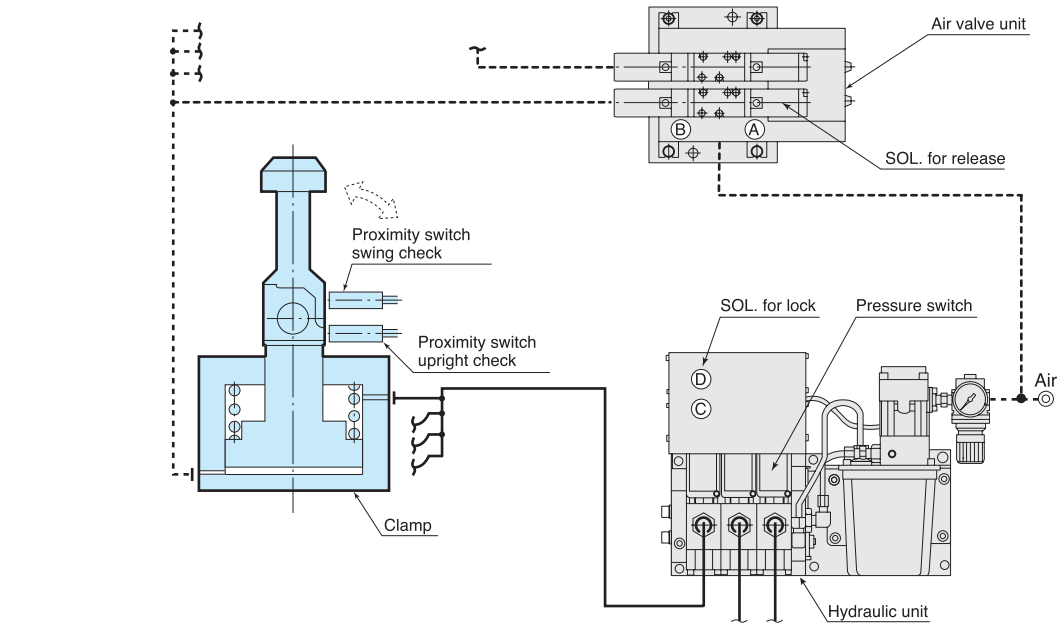
*Pressure lower than 0.39 MPa may cause malfunction.

OUTLINE DIMENSIONS



Clamp rod of the GN clamp swings to avoid interfering with the die when loading or unloading the lower die.

TYPICAL LAYOUT



Action

Release → Lock

SOL. for release (A) ON (B) OFF (Exhaust) → Swing and discharge air by spring → Upright check switch (ON)

SOL. for lock (C) ON (D) OFF (Pump activates) → Lock → Pressure switch (ON) → Lock completed

Lock is completed when both upright check switch and pressure switch are ON.

Lock → Release

SOL. for lock (C) OFF (D) ON Hydraulic released → Pressure switch (OFF)

SOL.for release (A) OFF (B) ON Air supplied → Swing by air → Swing check switch (ON) → Swing completed

Release and swing are completed when swing check switch is ON and pressure switch is OFF.

● OUTLINE DIMENSIONS

Model	GN0250	GN0400	GN0630	GN1000
A	83	102	122	142
B	71.5	77	90.5	111
C	16	20	25	35
D1	40	50	60	75
D2	18	22	28	34
E	60	75	90	115
F	24	25	26.5	30
G	40	44.5	54	70
J	22.5	26	32.5	40
K	28.5	32	38.5	49
L	35	42	49	60
M	33.5	41	53	67
N	h+58.5	h+74	h+89	h+118
P	16.5	20	24	31
Q	21	26	34	39
S	18	22	24	17
T	18	21	26.5	35
h	min.25 - max.50			
W	20	25	30	37.5
AA	72	86	106	126
AB	36	43	53	63
AC	23	27	35	40
AD	58	67	84	104
AE	90	110	130	150
AF	7 Drill hole Spot facing φ11 Depth7	9 Drill hole Spot facing φ14Depth 9		
R	10	12.5	15	17.5
X	M6	M8		
Y	Rc 1/8			Rc 1/4
Provided bolts	M6×60 (3pcs)	M8×75 (3pcs)	M8×90 (3pcs)	M8×115 (3pcs)

*1. Specify clamping height (h) when ordering.
*2. For specifications other than above, consult us.

Note) *1. Although the GN Clamp is a hydraulic single action clamp, the unit circuit of the clamp is the U circuit because the clamp is controlled by double solenoids. When using the GN Clamp combining with other single action clamps, the clamp circuit should be the G circuit. When using the GN Clamp combining with the MRA rollers, the circuit should be the H circuit. Contact us for further information.

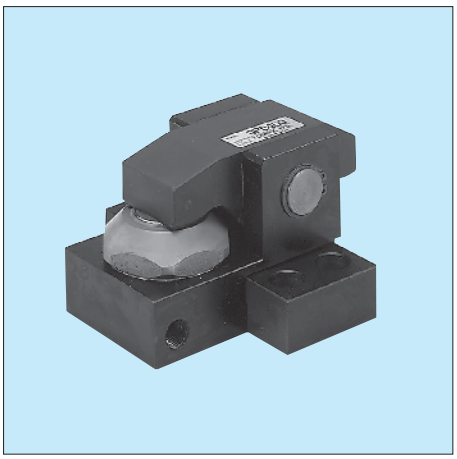
〈 Precautions for mounting and operation 〉

1. Allowance of die clamping thickness is h ±0.5mm.
2. Clamp surface must be parallel with clamp mounting surface.
3. Hydraulic pressure for lock should be 24.5 MPa, and pneumatic pressure for release should be 0.39～0.49MPa.
4. Take care to prevent dust, sand, chips, slugs, etc. from entering clamp mechanism.
5. This clamp is not applicable to the upper die (swing rod downward).

MODEL

GP CLAMP

GP is a fixed type clamp that slides on gibs to provide clearance for loading the die. T-slots are not necessary.



MODEL CODE

GP 040 0 — 25 — H

① Design No. ② ③

① Capacity (See specifications)

② Mold thickness (h dimension)*1
25 : h dimension 25 mm
↑
35 : h dimension 35 mm

③ Options
H : Extra height type (If the "h" dimension is greater than the maximum "h" dimension specified in the catalogue. Build to order)
J : Low lever type(less than min "h")
K : Rear port
L : Wide lever (for U-cut in die)*2
N : NPT port*1
V : High temperature type (70 - 120℃)

*1 When "N" is selected from options, each dimension is described in "inch" in the specifications and other documents. However the mold thickness is shown by mm value as a symbol.

*2 When the mold has U-cut, the lever width may become insufficient. Be sure to designate U-cut dimension.

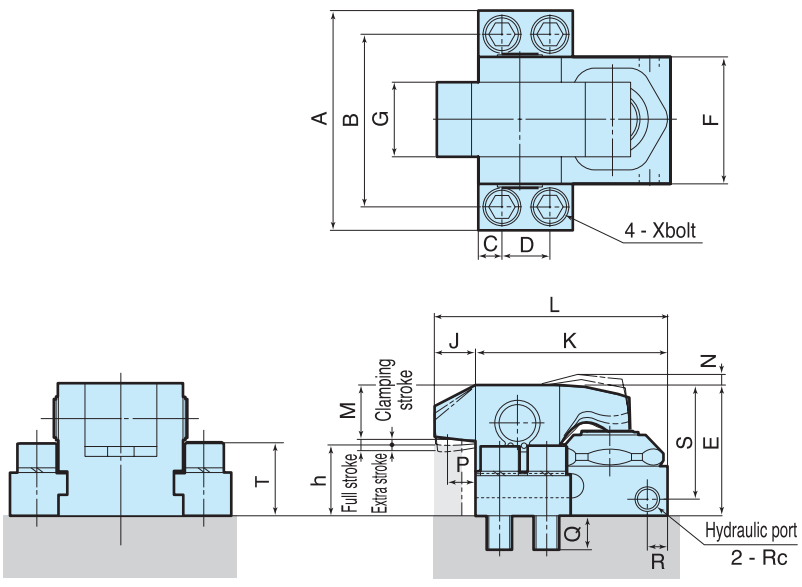
e.g. GP0630-40-V
- Clamping capacity 61.7kN
- Mold thickness 40 mm
- For high temperature

SPECIFICATIONS

Model		GP0100	GP0160	GP0250	GP0400	GP0630	GP1000	GP1600
Clamping Force	(kN)	9.8	15.7	24.5	39.2	61.7	98	157
Working Pressure	(MPa)	24.5 (for rated clamp force)						
Max Woking Pressure	(MPa)	27.0						
Max Rated Pressure	(MPa)	36.8						
Full Stroke	(mm)	6	7			8		
Clamping Stroke	(mm)	3	3.5			4		
Extra Stroke	(mm)	3	3.5			4		
Cylinder Cap at Full Stroke	(cm^3)	2.5	4.8	7.2	11.9	21.6	34.7	55.2
Working Temperature		0 - 70℃ (V type is available for 70 - 120℃)						
Frequency of Use		20 times/day (Please contact us for more frequent use.)						
Working Fluid		ISO - VG - 32 or equivalent						

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower.
*3. Action at low temperature will be slower as fluid viscosity is higher.

OUTLINE DIMENSIONS



● OUTLINE DIMENSIONS

Model	GP0100	GP0160	GP0250	GP0400	GP0630	GP1000	GP1600
A	72	90	106	123	153	180	219
B	53	66	78	92	115	129	155
C	8.5	10	12	13	15	18	22
D	15	18	20	26	30	36	46
F	38	48	58	68	88	97	117
G	20	26	32	40	50	55	60
J	15	18	20	23	30		
K	61	70	84	105.5	130	159	199
L	76	88	104	128.5	160	189	229
MAX.N	5.5	6.5	6.5	6.5	8	8	9
P	10	12.5	14	16	20		
Q	12	14.5	20.5	23	24	29.5	33
R	7	7	10	12	49	68	73
S	40.5	47	53	61	69	95	116
T	26	30.5	36.5	41	47.5	60.5	71
X	M8	M10	M12	M14	M16	M20	M24
NPT	1/8		1/4				
MIN.E	49.5	56	65	73	88.5	118	140
M (h)	21.5 (25)	27.5 (25)	31.5 (30)	39.5 (30)	49.5 (35)	64 (50)	81 (55)
	16.5 (30)	22.5 (30)	26.5 (35)	34.5 (35)	39.5 (45)	54 (60)	71 (65)
	—	17.5 (35)	21.5 (40)	29.5 (40)	29.5 (55)	44 (70)	61 (75)
MIN.h	25	25	30	30	35	50	55
MAX.h	40	40	50	50	60	70	80

〈 Precautions for mounting and operation 〉

1.Working pressure should be 24.5MPa.

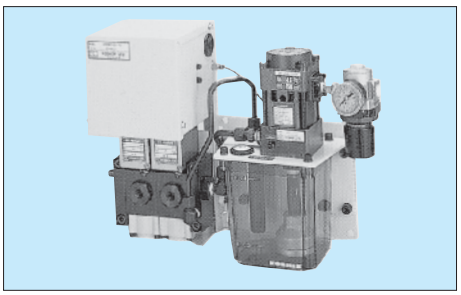
2.Clamps mounting surface and clamping surface must be parallel.

3.Otherwise the clamps may be damaged and fail to operate properly.

MODEL

CP UNIT

CP is a compact hydraulic power unit generating 24.5MPa.
It includes an AB pump, hydraulic valves, and pressure switches.



MODEL CODE

CP | 2 | 0M | 1 | – | CCCD | – | 1 | 0 | – | H | N

① ② Design No. ③ ④ ⑤ ⑥ ⑦

① Tank capacity code
2 : 2ℓ tank(H.L.-L.L.=1.1ℓ)
5 : 5ℓ tank(H.L.-L.L.=3.1ℓ)

② Normal pressure code*1
0M : 24.5 MPa
Supply air pressure 0.45 MPa, without temperature compensating valve
0N : 24.5 MPa
*Supply air pressure 0.41 MPa, with temperature compensating valve

③ Circuit symbol
C : Normal open circuit for clamp (single solenoid valve)
D : Normal close circuit for die lifter (single solenoid valve)
R : Pressure compensating valve (micro flow relief valve)
U : Double solenoid circuit for clamp
V : Double solenoid circuit for die lifter
G : Normal open circuit for clamp*2
H : Normal close circuit for die lifter*2
*2 When the U circuit is commonly used

④ Control voltage
1 : AC100V
2 : AC200V
3 : AC110V
4 : AC220V
5 : DC 24V

⑤ Working Fluid code
0 : General working fluid
(Refer to working fluid list in p24)…Standard
S : Silicone oil
G: Water-Glycol (The tank to be made of steel)

⑥ Options
Blank : Standard
H : With piping seat
G : With primary pressure gauge

⑦ Gauge unit
Blank: Standard MPa
N: PSI unit and NPT piping exclusively used in USA
P: PSI unit and Rc piping exclusively used in USA

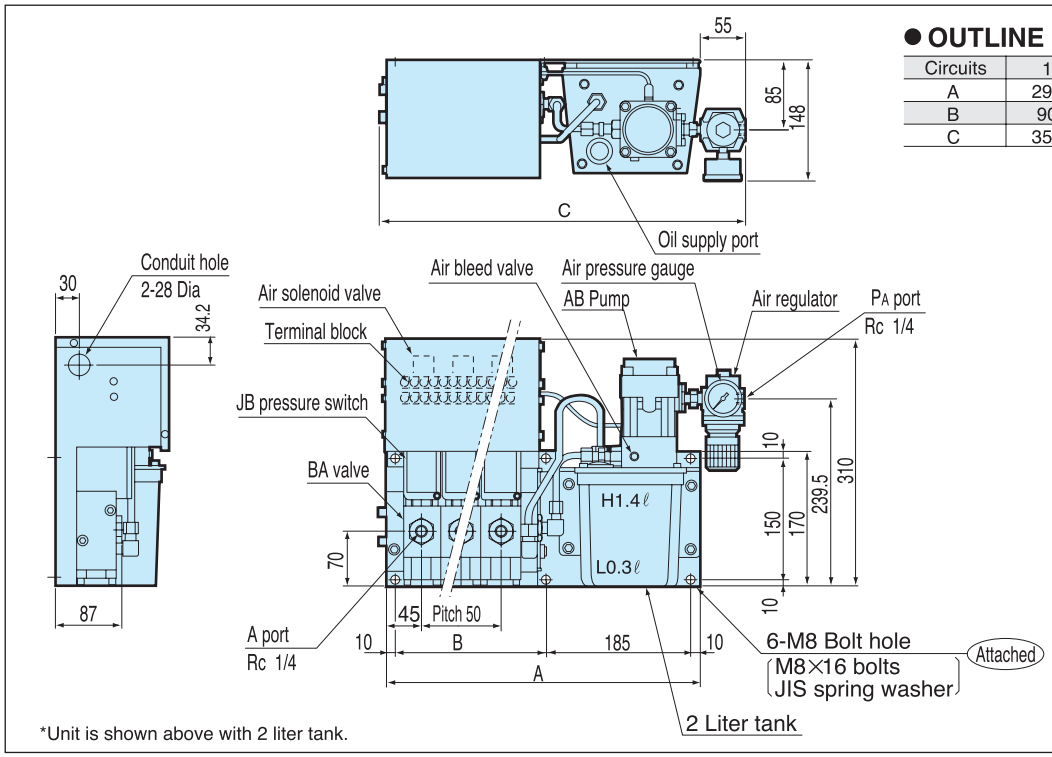
Note *1
Operating Pressure Code is classified according to the usage of the temperature relief valve.

SPECIFICATIONS

Model			CP20M1-□□□-10	CP20N1-□R□R□R-10
Working Pressure (MPa)			24.5	
Rated Pressure (MPa)			36.8	
Tank Capacity (cm^3)			2 : 2000 5 : 5000	
Working Temperature			0 – 70℃	
Working Fluid			2.5 min / time : 20 times / day	
Main Components	Pump	Model	AB7000-0	
		Set Discharge Pressure	24.5MPa	22.5MPa
		Discharge Volume Under No Load	1.36 ℓ/min	1.30 ℓ/min
		Set Air Pressure	0.45MPa	0.41MPa
	Suction Filter	Model	JF1030	
		Filter Element	174 μm (100mesh)	
	Valve	Model	BA5011-0	BA5011 0/BA5R11-0
		Orifice	12.6mm (P→A) 52.8mm (A→R)	
		Operating Pressure Ratio	1 / 62.5 (Pneumatic/Hydraulic)	
	Pump	Clamp Circuit	JB2800-M0	
		Purpose/Set Pressure	Check inc. pressure/INC. 17.6MPa	
		Lifter Circuit	JB1000-M0	
		Purpose/Set Pressure	Check dec. pressure/DEC. 2.94MPa	
	Suction Filter	Model	–	BR5N11-0
		Set Pressure	–	$24.5^{+2.45}_{0}$MPa

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower.
*3. Action at low temperature will be slower as fluid viscosity is higher.
*4. Auto drain type air filter should be used when air supply has much moisture or air supply is at the end of supply line.
*5. If hydraulic pressure gauge is used in the circuit, install damper or use gauge containing grease.
*6. Leave enough space under uint to remove tank in case oil or suction filter should be changed.

OUTLINE DIMENSIONS



*Unit is shown above with 2 liter tank.

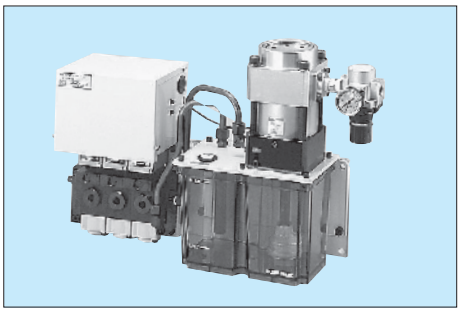
● OUTLINE DIMENSIONS

Circuits	1	2	3	4
A	295	345	395	445
B	90	140	190	240
C	359	409	459	509

MODEL

CS UNIT

The CS unit is a hydraulic unit equipped with the AC pump used for the system requiring a flow rate higher than that of the CP unit.



MODEL CODE

NON STOCKING ITEM

CS5 | 0M | 0 — | CCCD | — | 5 | 0 | — | H | P

① Design No. ② ③ ④ ⑤ ⑥

① Normal pressure code
- 0M : 24.5 MPa
  Supply air pressure 0.47 MPa, without temperature compensating valve
- 0N : 24.5 MPa
  Supply air pressure 0.44 MPa, with temperature compensating valve

② Circuit symbol
- C : Normal open circuit for clamp (single solenoid valve)
- D : Normal close circuit for die lifter (single solenoid valve)
- R : Pressure compensating valve (micro flow relief valve)
- U : Double solenoid circuit for clamp
- V : Double solenoid circuit for die lifter
- G : Normal open circuit for clamp*2
- H : Normal close circuit for die lifter*2

*2 When the U circuit is commonly used

③ Control voltage
- 1 : AC100V
- 2 : AC200V
- 3 : AC110V
- 4 : AC220V
- 5 : DC 24V

④ Working Fluid
- 0 : General working fluid (Refer to working fluid list in p24)…Standard
- S : Silicone oil
- G : Water-Glycol (The tank to be made of steel)

⑤ Options
- Blank : Standard
- H : With piping seat
- G : With primary pressure gauge

⑥ Gauge unit
- Blank: Standard MPa
- N : PSI unit and NPT piping exclusively used in USA
- P : PSI unit and Rc piping exclusively used in USA

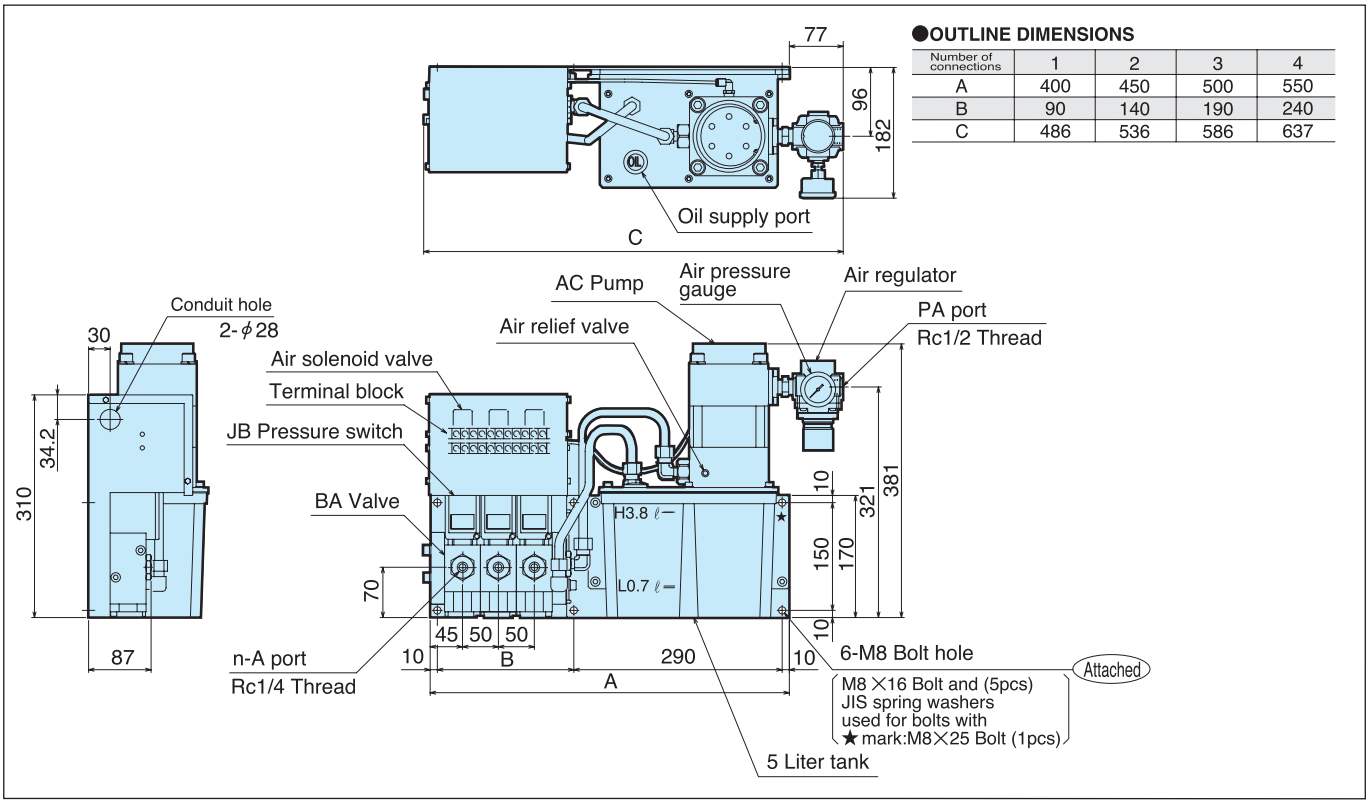
Note *1
Operating Pressure Code is classified according to the usage of the temperature relief valve.

SPECIFICATIONS

Model			CS50M0-□□□-□0	CS50N0-□R□R□R-□0
Working Pressure (MPa)			24.5	
Rated Pressure (MPa)			36.8	
Tank Capacity (cm^3)			5000	
Working Temperature			0 - 70℃	
Frequency of Use			2.5 min / time : 20 times / day	
Main Components	Pump	Model	AC7000	
		Set Discharge Pressure	24.5MPa	22.5MPa
		Discharge Volume under No Load	2.79 ℓ/min	2.70 ℓ/min
		Set Air Pressure	0.47MPa	0.44MPa
	Suction Filter	Model	JF1030	
		Filter Element	174 μm (100 mesh)	
	Valve	Model	BA5011-0	BA5011-0/BA5R11-0
		Orifice	12.6mm^2(P→A) 52.8mm^2(A→R)	
		Operating Pressure Ratio	1/62.5	
	Pressure Switch	Clamp Circuit	JB2800-M0	
		Purpose/Set Pressure	Check inc. pressure/INC. 17.6MPa	
		Lifter Circuit	JB1000-M0	
		Purpose/Set Pressure	Check dec. pressure/DEC. 2.94MPa	
	Relief Valve	Model	—	BR5N11-0
		Set Pressure	—	$24.5^{+2.45}_{0}$MPa

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower.
*3. Action at low temperature will be slower as fluid viscosity is higher.
*4. Auto drain type air filter should be used when air supply has moisture.
*5. If hydraulic perssure gauge is used in the circuit, install damper or use gauge containing grease.
*6. Leave enough space under uint to remove tank in case oil or suction filter should be changed.

OUTLINE DIMENSIONS



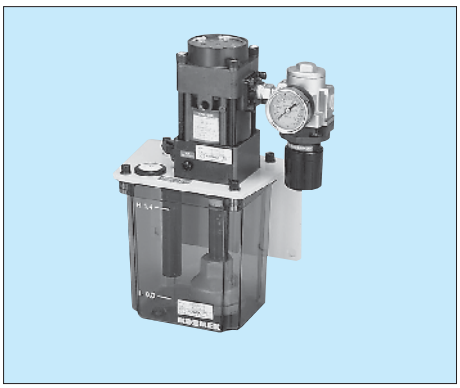
●OUTLINE DIMENSIONS

Number of connections	1	2	3	4
A	400	450	500	550
B	90	140	190	240
C	486	536	586	637

MODEL

CB UNIT

CB is a compact air driven hydraulic power unit generating 24.5MPa. It is used in conjunction with non-leak type valves.



MODEL CODE

CB ② 2 ③ 0N ④ 0 — ⑤ 0 — ⑥ D ⑦ P

Design No.

① Tank capacity code
2 : 2 ℓ tank(H.L.-L.L.=1.1ℓ)
5 : 5 ℓ tank(H.L.-L.L.=3.1ℓ)

② Normal pressure code*1
0M : 24.5 MPa
Supply air pressure 0.45 MPa
0N : 24.5 MPa
Supply air pressure 0.41MPa, for BC Unit with temperature compensating valve

③ Fluid code
0 : General working fluid
(Refer to working fluid list in p24)…Standard
S : Silicone oil
G : Water-glycol (The tank to be made of steel)

④ Options
Blank : Standard air regulator only
D : With filter regulator (Automatic drain type)
Q : With level switch

⑤ Gauge unit
Blank : Standard MPa
N : PSI unit and NPT piping exclusively used in USA
P : PSI unit and Rc piping exclusively used in USA

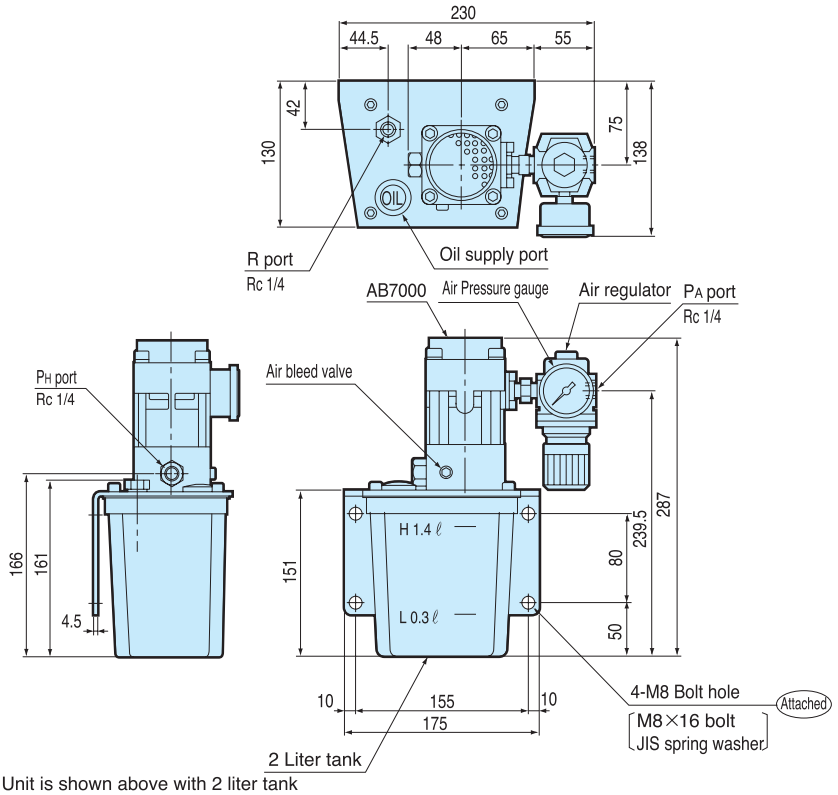
Note*1
Operating Pressure Code is classified according to the usage of the temperature relief valve of the BC unit.

SPECIFICATIONS

Model			CB□0M0-0	CB□0N0-0
Working Pressure (MPa)			24.5	
Rated Pressure (MPa)			36.8	
Tank Capacity (cm^3)			2 : 2000 5 : 5000	
Working Temperature			0 - 70℃	
Frequency of Use			2.5 min /time : 20 times / day	
Main Components	Pump	Model	AB7000-0	
		Set Discharge Pressure	24.5MPa	22.5MPa
		Discharge Volume under No Load	1.36 ℓ/min	1.30 ℓ/min
		Air Consumption	max. 0.4m^3(Normal) /min	
		Set Air Pressure	0.45MPa	0.41MPa
	Suction Filter	Model	JF1030	
		Filter Element	174 μm (100 mesh)	

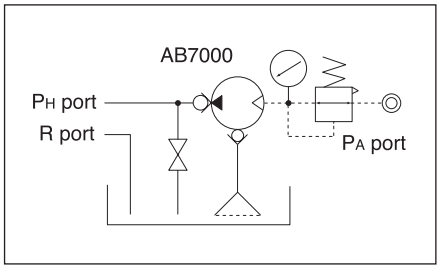
*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower
*3. Action at low temperature will be slower as fluid viscosity is higher.
*4. Auto drain type air filter should be used when air supply has moisture.
*5. CD pump is not designed for continuous (open circuit) operation.
*6. If used valves that have internal leakage, pump will run continuously ,greatly reducing life expectancy.
We recommend KOSMEK non-leak valves.

OUTLINE DIMENSIONS



*Unit is shown above with 2 liter tank

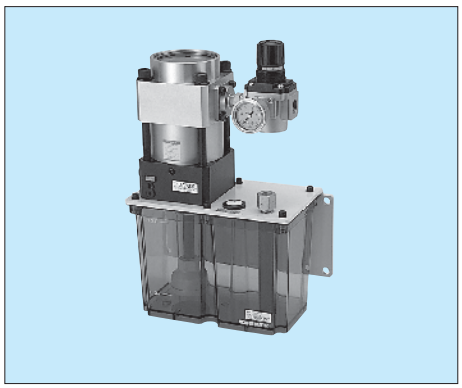
CIRCUIT SYMBOL



MODEL

CC UNIT

This is a high flow rate air-driven pump unit to be used in combination with a 3-port Non-leak Valve Unit (BC or BH).



MODEL CODE

NON STOCKING ITEM

CC5 [0M] 0 – [0] – [D][P]

① Design No. ② ③ ④

① Normal pressure code*1
- 0M : 24.5 MPa
  Supply air pressure 0.47 MPa
- 0N : 24.5 MPa
  Supply air pressure 0.44 MPa, for BC Unit with temperature compensating valve

② Fluid code
- 0 : General working fluid
  (Refer to working fluid list in p24)···Standard
- S : Silicone oil
- G : Water-glycol (Excluding AC8000 and AC9000)
  (The tank to be mede of steel)

③ Options
- Blank : Standard air regulator only
- D : With filter regulator (automatic drain type)
- Q : With level switch

④ Gauge unit
- Blank : Standard MPa
- N : PSI unit and NPT piping exclusively used in USA
- P : PSI unit and Rc piping exclusively used in USA

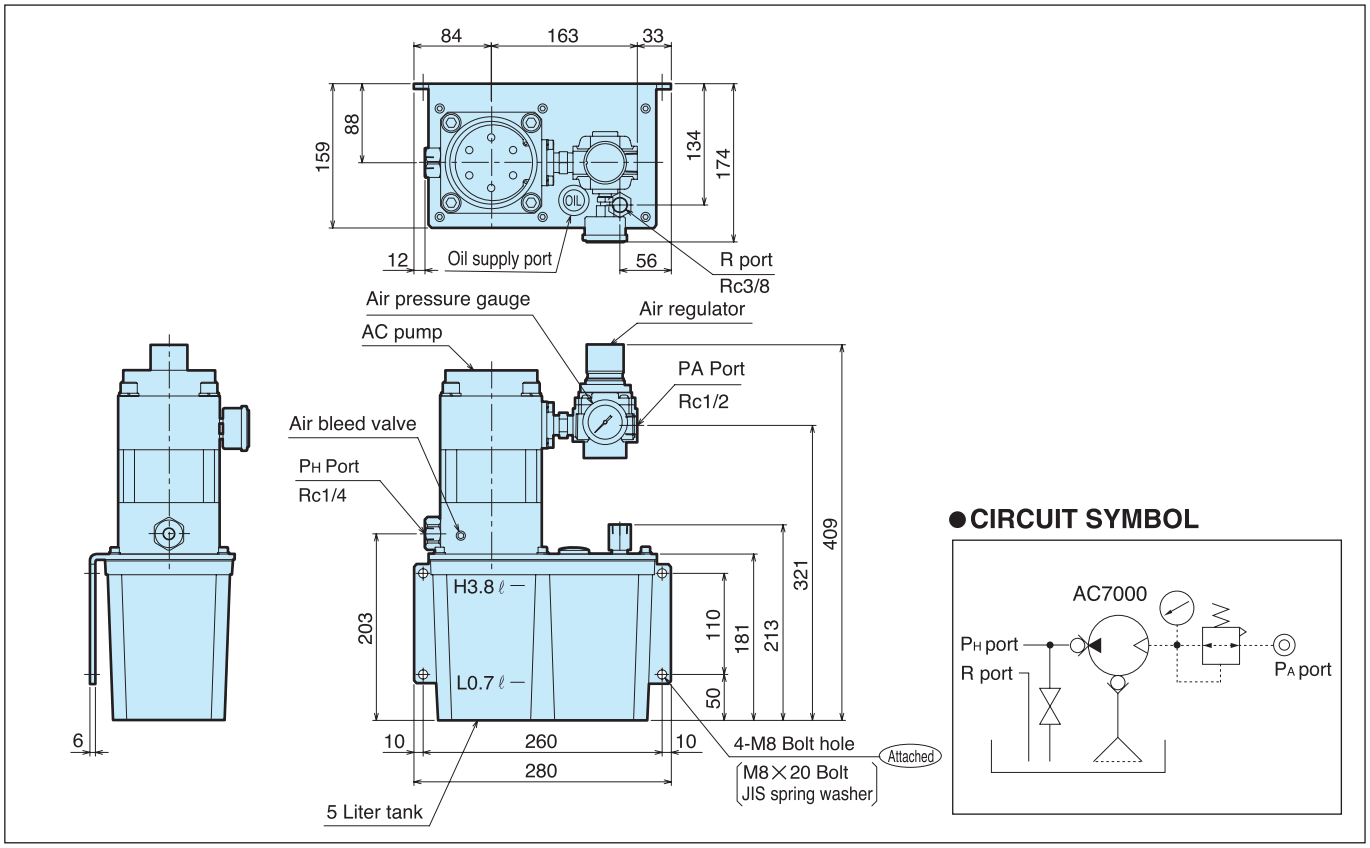
Note*1
Operating Pressure Code is classified according to the usage of the temperature relief valve of the BC unit.

SPECIFICATIONS

Model			CC50M0-0	CC50N0-0
Working Pressure (MPa)			24.5	
Rated Pressure (MPa)			36.8	
Tank Capacity (cm^3)			5000	
Working Temperature			0 - 70℃	
Frequency of Use			2.5 min /time : 20 times / day	
Main Components	Pump	Model	AC7000	
		Set Discharge Pressure	24.5MPa	22.5MPa
		Discharge Volume under No Load	2.79 ℓ/min	2.70 ℓ/min
		Set Air Pressure	0.47MPa	0.44MPa
	Suction Filter	Model	JF1030	
		Filter Element	174 μm (100 mesh)	

*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be slower
*3. Action at low temperature will be slower as fluid viscosity is higher.
*4. Auto drain type air filter should be used when air supply has moisture.
*5. CD pump is not designed for continuous (open circuit) operation.
*6. If used valves that have internal leakage, pump will run continuously, greatly reducing life expectancy.
We recommend KOSMEK non-leak valves.

OUTLINE DIMENSIONS

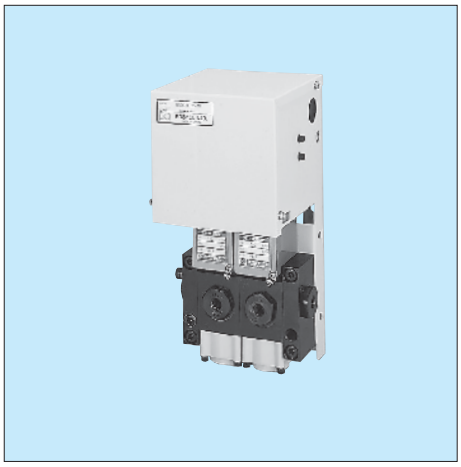


CIRCUIT SYMBOL

MODEL

BC UNIT

BC is an electrical controlled air-piloted non-leak hydraulic valve.



MODEL CODE

BC | 00N | 1 | — | CRCR | — | 1 | 0 | — | GR | N

① Design No. ② ③ ④ ⑤ ⑥

① Normal Pressure Code*1
- 00M : 24.5 MPa (without temperature compensating valve)
- 00N : 24.5 MPa (with temperature compensation valve)

② Circuit symbol
- C : Normal open circuit for clamp (single solenoid valve)
- D : Normal close circuit for die lifter (single solenoid valve)
- R : Pressure compensating valve (micro flow relief valve)
- U : Double solenoid circuit for clamp
- V : Double solenoid circuit for die lifter
- G : Normal open circuit for clamp*2
- H : Normal close circuit for die lifter*2
- *2 When the U circuit is commonly used

③ Control voltage
- 1 : AC100V
- 2 : AC200V
- 3 : AC110V
- 4 : DC220V
- 5 : DC 24V

④ Working Fluid
- 0 : General working fluid (Refer to working fluid list in p24) ···Standard
- S : Silicone oil
- G : Water-Glycol

⑤ Options
- Blank : Standard
- GR : Provided with primary pressure gauge on the right
- GL : Provided with primary pressure gauge on the left
- H : Provided with piping seat on the left (PH port)

⑥ Gauge unit
- Blank : Standard MPa
- N : PSI unit and NPT piping exclusively used in USA
- P : PSI unit and Rc piping exclusively used in USA

Note *1
The marks of "Normal pressure code" change depending on the existence of the temperature compensating valve shown in "Circuit type" of BC Unit to be used.

SPECIFICATIONS

Model			BC00M1-□□□-10	BC00N1-□R□R□R-10
Working Pressure (MPa)			24.5	
Rated Pressure (MPa)			36.8	
Control Voltage			AC100V (60/50Hz)	
Working Temperature			0 - 70℃	
Working Fluid			ISO-VG-32 or equivalent hydraulic fluid	
Frequency of Use			2.5min/time : 20times/day	
Main Components	Valve	Model	BA5011-0	BA5011-0/BA5R11-0
		Orifice	12.6mm² (P→A) 52.8mm² (A→R)	
		Operating Pressure Ratio	1/62.5	
	Pressure Switch	Clamp Circuit	JB2800-M0	
		Purpose/Set Pressure	Check inc.pressure/INC. 17.6MPa	
		Lifter Circuit	JB1000-M0	
		Purpose/Set Pressure	Check dec.pressure-DEC. 2.94MPa	
	Relief Valve	Model	—	BR5N11-0
		Set Pressure	—	$24.5^{+24.5}_{0}$ MPa

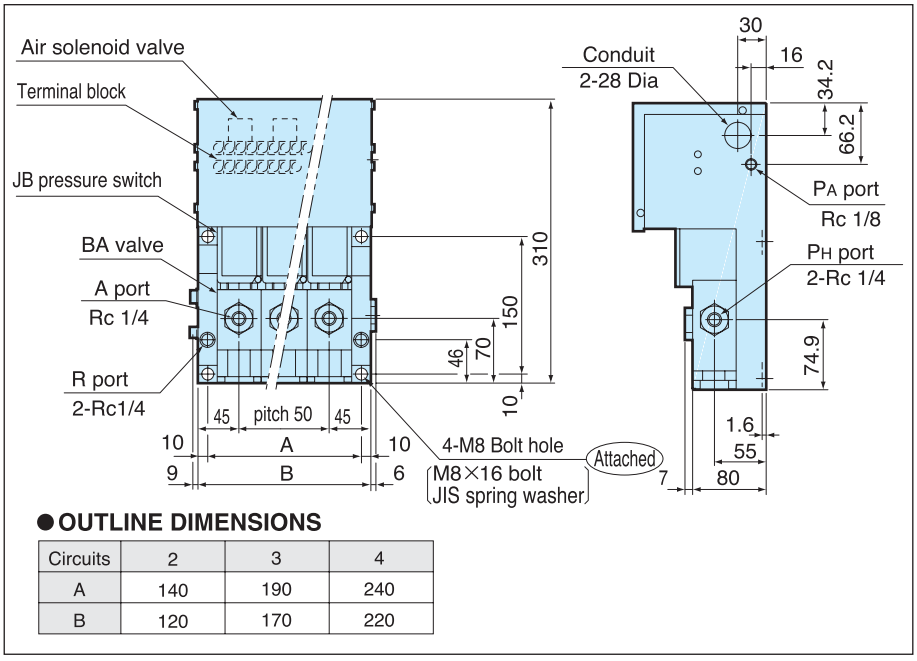
*1. For other fluids, consult us.
*2. If fluid viscosity is higher, action will be solwer.
*3. Action at low temperature will be slower as fluid viscosity is higher.
*4. Auto drain type air filter should be used when air supply has moisture.
*5. Working pressure must be kept within working range of valve. Higher pressure will damage the seals.

CIRCUIT SYMBOL

Symbol \ Action	Normal open (Circuit for clamp)	Normal close (Circuit for lifter)
C	1	—
CC	2	—
CCC	3	—
CCD	2	1
CCCD	3	1

*Above is only a partial list of available circuits. For other circuit, please consult us.

OUTLINE DIMENSIONS

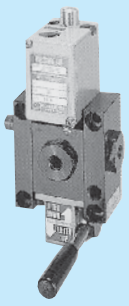


● OUTLINE DIMENSIONS

Circuits	2	3	4
A	140	190	240
B	120	170	220

*When die lifter circuit only

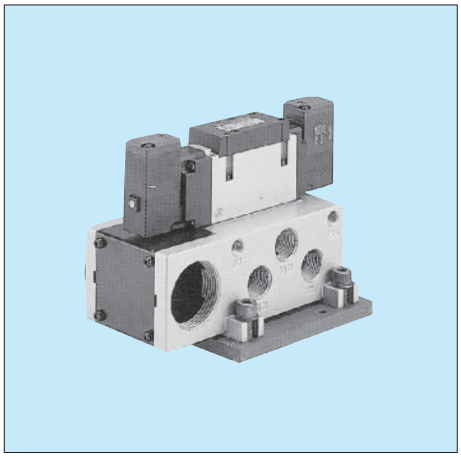
BH unit is available.
Model : BH00M1-D-0



MODEL

MV VALVE UNIT

MV valve is an air control valve for GD and GE clamps.



MODEL CODE

MV [302] 2 – [3][5] – [N]

① Desaign No. ② ③ ④

① Size Designation
- 301 : For small and medium clamps
- 302 : For large clamps
- *Please consult us when a large number of clamps are used

② Number of Control Circuits
- 1 : Circuit of upper or lower die only
- 2 : 2 circuits; for upper and lower dies or cross circuit
- 3 : 3 circuits; for upper die cross circuit and one lower die circuit
- *Please contact us for other circuits

③ Control voltage
- 1 : AC100V
- 2 : AC200V
- 5 : DC 24V
- *Please contact us for other voltage

④ Options
- Blank : standard
- N : NPT port *1

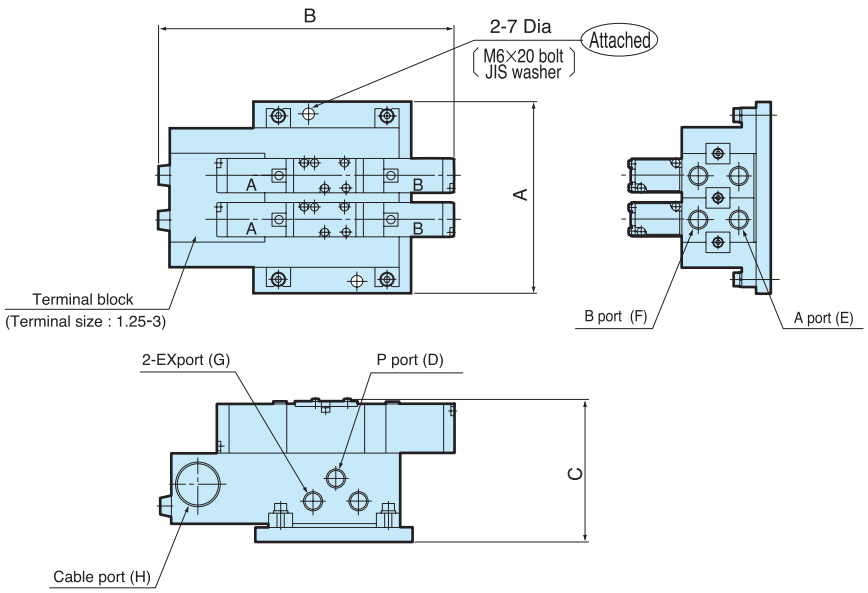
*1 When "N" is selected from the options, dimensions are described in inch in documents such as the specifications.

SPECIFICATIONS

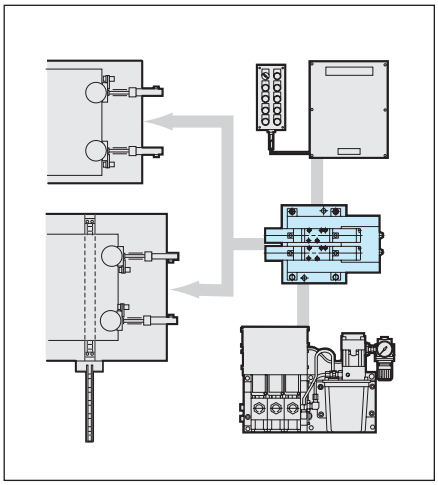
Model	MV3012	MV3022
Type	Metal seal /5 port piloted	
Solenoid Position and Number	2 position double	
Port Size	Rc 1/4	Rc 3/8
Effective Area	15 mm^2	36 mm^2
Working Fluid	Air	
Maximum Working Pressure	1.0MPa	
Rated Pressure	1.5MPa	
Temperature of Working Fluid	−10 to +60℃	
Oil Supply	not required	
Protection	dust-proof	
Solenoid Model (SMC Model)	VFS2200	VFS3200

*Supply clean air through an air filter.

OUTLINE DIMENSIONS



TYPICAL LAYOUT

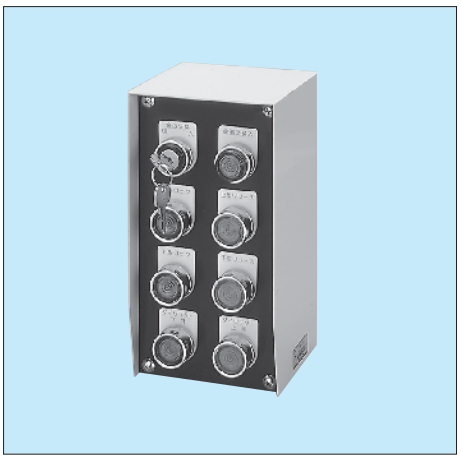


● OUTLINE DIMENSIONS

Model	Circuit	A	B	C	D	E	F	G	H
MV3012-1	1	75	166.5	74	Rc 1/4	Rc 1/4	Rc 1/4	Rc 1/8	G 1/2
MV3012-2	2	120	186.5	90.5				Rc 1/4	G 3/4
MV3012-3	3	150							
MV3022-1	1	90	170.5	102	Rc 3/8	Rc 3/8	Rc 3/8	Rc 3/8	G 1/2
MV3022-2	2	150	181	132	Rc 1/2			Rc 1/2	G1 1/4
MV3022-3	3	185							

*Two circuit valve illustrated above.

OPERATION AND CONTROL PANEL



MODEL CODE

YP 105 0 — ☐

① Design NO. ②

NON STOCKING ITEM

① Control circuit number
: Refer to circuit configuration list.
② Options
: Contact us.

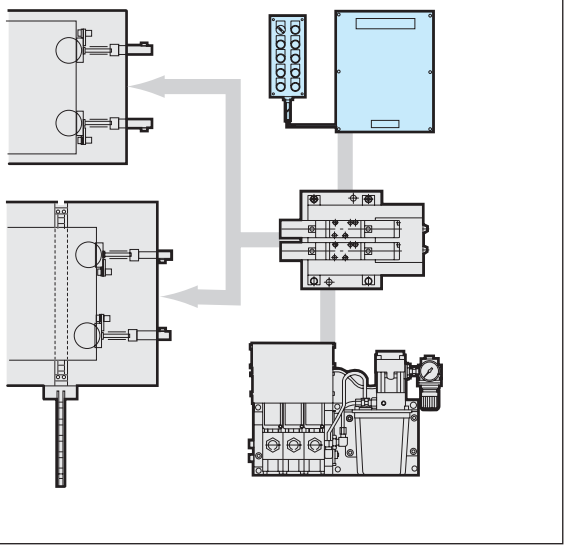
e.g. YP1050-N
- Circuit configuration
- Upper GE clamp
- Lower GB clamp
- MRA die lifter
- Written in English

NOTE All types shall be produced after an order received.If you place an order, ask delivery time in advance.

SPECIFICATIONS

Type		Separate Operator and Control Panel Type
Power Supply Voltage		AC100V 50/60Hz
Power Supply Capacity		5A
Controls	Power	Circuit Protector (in Control Enclosure)
	Die Change Selector	Key Switch
	Each Operation	Illuminated Push Button

TYPICAL LAYOUT



DESCRIPTION OF ACTIONS AND INTERLOCKS

Interlocks (for press operation)	Die Change Mode	OFF
	Upper Die	Lock (from pressure switch)
	Lower Die	Lock (from pressure switch)
	Auto-Slider	Forward End (from forward check switch)
	Die Lifter	Down (from pressure switch)
Interlocks (for clamp operation)	Die Change Mode	ON
	Upper Clamp	Press Slide Lower Dead Point (from press)
		Die Lifter ··· Down (from pressure switch)
	Lower Clampr	Die Lifter Down (from pressure switch)
	Die Lifter	Press Slide ···Upper Dead Point (from press)
		Lower Clamp ···Released (from pressure switch)

*When using YP series control panels, press interface should be prepared by customer.

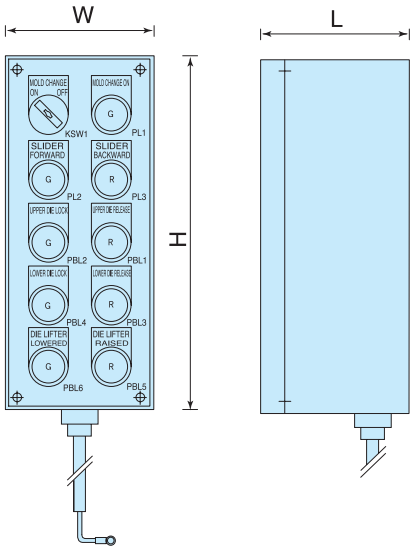
CIRCUIT CONSTRUCTION

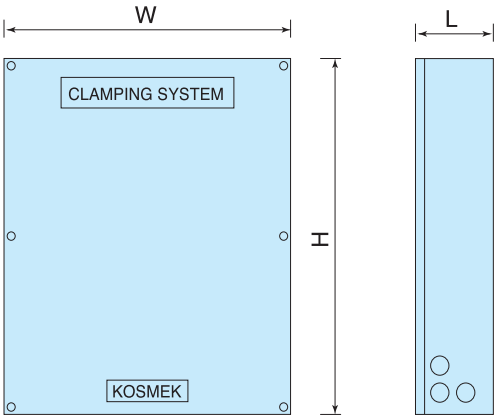
Model	Upper clamp		Lower clamp			Hydraulic Unit Model
	Front	Back	Front	Back	Die lifter	
YP1000	clamp		clamp		—	CC
YP1010	clamp		clamp		○	CCD
YP1020	clamp	clamp+slider	clamp		—	CC
YP1030	clamp	clamp+slider	clamp		○	CCD
YP1040	clamp+slider		clamp		—	CC
YP1050	clamp+slider		clamp		○	CCD
YP1060	clamp	clamp+slider	clamp	clamp+slider	—	CC
YP1070	clamp	clamp+slider	clamp	clamp+slider	○	CCD
YP1080	clamp+slider		clamp	clamp+slider	—	CC
YP1090	clamp+slider		clamp	clamp+slider	○	CCD
YP1100	clamp+slider		clamp+slider		—	CC
YP1110	clamp+slider		clamp+slider		○	CCD

*Four upper clamps and four lower clamps are standard. For more clamps, consult us.

This control system provides safe operation of clamping systems.
Select model according to system specifications.

OUTLINE DIMENSIONS





● Operation · Control Panel (W×H×L)

Model	Operaion Panel	Control Panel
YP1000	120×230×120	450×350×120
YP1010		
YP1020	120×230×120	450×530×120
YP1030	120×280×120	
YP1040	120×230×120	
YP1050	120×280×120	
YP1060	120×230×120	
YP1070	120×280×120	
YP1080	120×230×120	
YP1090	120×280×120	
YP1100	120×230×120	
YP1110	120×280×120	

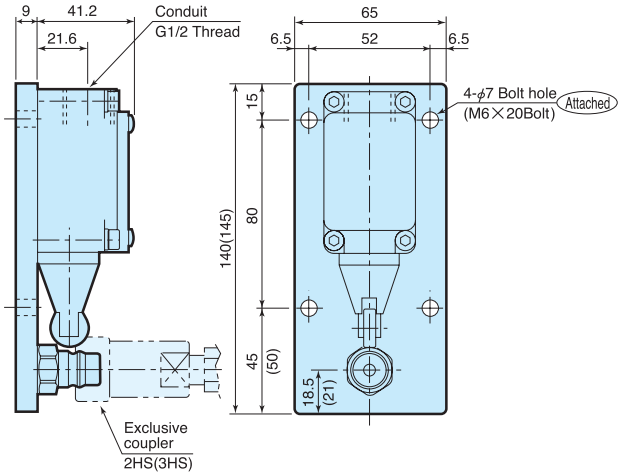
● STANDARD PAINT COLOR

	Operator Panel and Control Panel
Outer	5Y8.4/0.5
Inner	

When specifying paint color,
1.Please indicate by Munsell No.or sample color.
2.For colors other than standard, an extra charge will be applied.

ACCESSORIES

PS/COUPLER SWITCH



( ) shows the dimension of a PS0711

The press is interlocked through electrical signals to ensure the disengagement of the hydraulic hose.

MODEL CODE

P S 0 1 0 1 — H

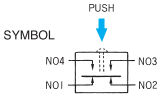
① Design No. ②

① Application
010:2HS(Nitto Koki) for Rc1/4 thread
071:3HS(Nitto Koki) for Rc3/8 thread

② Switch manufacturer
H:Standard
(manufactured by Yamatake)
T:Special(manufactured by Omron)

NOTE Types inside shall be produced after an order received.
If you place an order. ask delivery time in advance.

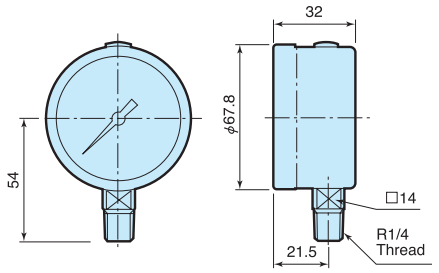
Type	PS0101	PS0711
Limit switch	5LS1-J (Yamatake)	
Electric rating	10A-125, 250, 480VAC	
	0.8A-115VDC	
	0.4A-230VDC	
	0.1A-550VDC	
Circuit type	Two-circuit dual shutoff type (1a1b)	
Compatible coupler type	2HS	3HS



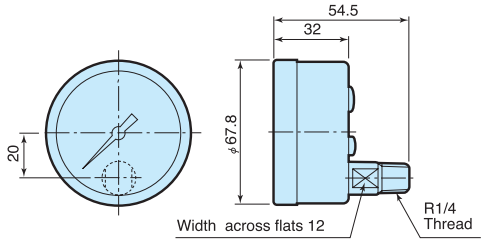
Remarks:Select an applicable coupler having the same specifications as the BK valve.

JGA and JGB/PRESSURE GAUGE

JGA



JGB



MODEL CODE

J G A 4 0 1 — 0

① ② Design No.

①Type
A:Bottom port type
B:Back port type

②Maximum indicating pressure
40:40.0 MPa

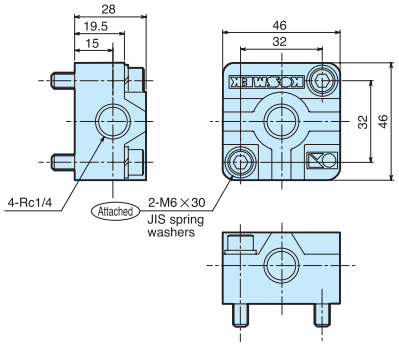
NOTE 1)Products with PSI unit are not available. We recommend you to purchase locally.

Type	JGA401	JGB401
Maximum range MPa	40.0	
Accuracy	JIS Class 1.6	

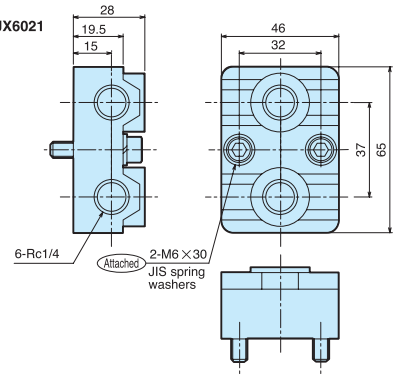
(Filled with glycerine)

JX/MANIFOLD BLOCK

JX4021



JX6021



HYDRAULIC OIL LIST

RECOMMENDED HYDRAULIC OIL LIST

Suitable oil should be used for KOSMEK hydraulic products to maximize performance and to assure trouble free operation for a long time.

ISO VISCOSITY GRADE : ISO-VG-32

Manufacturer	Abrasion resisting hydraulic oil	General purpose oil
Showa Shell Sekiyu	Tellus Oil 32	Tellus Oil C32
Idemitsu Kosan	Daphne Super Hydraulic 32A	Super Multi 32
Eneos	Super Highland 32	Super Mulpus 32
Cosmo Oil	Cosmo Hydro AW32	Cosmo New Mighty Super 32
JOMO	Hydrax 32	Lathus 32
Esso	Nuto H32	Nuto 32
Mobil	Mobil DTE24	Mobil DTE24 Light
Kygnus	Unit Oil WR32	Unit Oil P32
Fuji Kosan	Fukkol Super Hydrol 32	Fukkol Hydrol DX32
Matsumura Oil	Hydrol AW32	
Sunoco	Sunvis 832	Sunvis 932
Mitsui Oil	Hi-Tech AW32	Hydrax 32
Castrol	Hyspin AWS32	

Notes for placing an order

① Specify the model designation completely.

② Some of the model designations of our product have our control number at its end. This number showing a production design lot does not affect compatibility between products. You need not specify this number when placing an order.

③ Even if products having different control numbers are delivered at the same time, there exists no problem concerning the compatibility.

④ In addition to the products that are described to be manufactured after obtaining an order, some products may be manufactured according to the mold specifications and so on. Contact us for the delivery time.

Product line

We manufacture and sell, in addition to QMCS, a wide range of systems and products based on non-leak valves.
Contact our sales staff for further datails.

QMCS

QUICK MOLD CHANGE SYSTEMS

KDCS

KOSMEK DIECAST CLAMPING SYSTEMS

KWCS

KOSMEK WORK CLAMPING SYSTEMS

Components for hydraulic jig
of various machine tools.

L(7MPa)Series
T(25MPa)Series

KOSMEK®

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1441 BRANDING AVENUE,SUITE 110 DOWNERS GROVE,
IL 60515 USA
TEL.630-241-3465 FAX.630-241-3834

- FOR FURTHUR INFORNATION ON UNLISTED SPECIFICATIONS AND SIZES, PLEASE CALL US.
- SPECIFICATIONS ON THIS LEAFLET ARE SUBJECTED TO CHANGE WITHOUT NOTICE.

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