Manifold Block

Model WHZ-MD

Model LZY-MD

Model LZ-MS

Model LZ-MP

Model TMZ-1MB

Model TMZ-2MB

Model DZ-MG

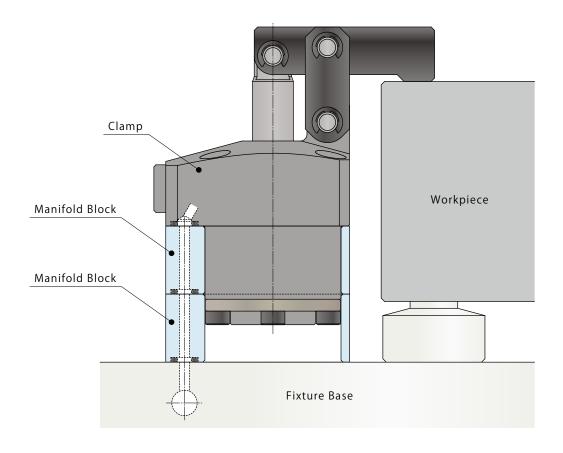
Model DZ-MS





Manifold Block

The mounting height of clamp is adjustable with the manifold block.

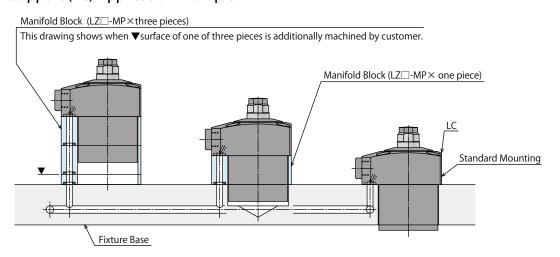




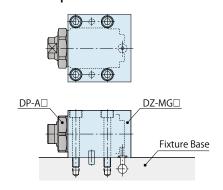
Applicable Model —————				
Manifold Block Model No.		Corresponding It	em Model No.	
Model WHZ-MD	Model WCA	Model WHA		
Model LZY-MD	Model LKA	Model LKE	Model LHC	Model LHS Model LL
Model LZ-MS	Model LM	Model LT Model LG		
Model LZ-MP	Model LC	Model TC		
Model TMZ-1MB	Model TMA-1			
Model TMZ-2MB	Model TMA-2			
Model DZ-MG□/MS□	Model DP			

Application Examples -

• Work Support (LC) Application Example



• Push Cylinder (DP) Application Example



High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler
Hydraulic Unit

Manual Operation
Accessories

Cautions / Others

Locating Pin

VX

Manifold Block

VXF

Manual Expansion

WHZ-MD
LZY-MD
LZ-MS
LZ-MP
TMZ-1MB
TMZ-2MB
DZ-M

Manifold Block / Nut

DZ-R

DZ-C

DZ-P

DZ-B

LZ-S

LZ-SQ

TNZ-S

WNZ-SQ
Pressure Switch

TNZ-SQ

Pressure Gauge JGA/JGB

JBA

Manifold

Coupler Switch
PS

Manifold Block for WCA/WCE/WHA/WHE

Model No. Indication

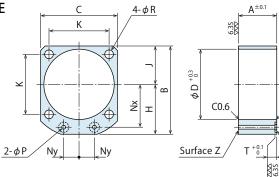
WHZ 048

48 <u>0</u>

O – MD

Design No.

(Revision Number)



					(mm)
Model No.	WHZ0600-MD	WHZ0320-MD	WHZ0400-MD	WHZ0500-MD	WHZ0630-MD
Corresponding Model No.	WCE0602 WHE0600	WCA0321 WCE1002 WHA0320 WHE1000	WCA0401 WCE1602 WHA0400 WHE1600	WCA0501 WCE2502 WHA0500 WHE2500	WCA0631 WCE4002 WHA0630 WHE4000
Α	23	25	27	31	35
В	54	60 67		77	88.5
С	45	50	58	68	81
D	40	46	54	64	77
Н	31.5	35	38	43	48
J	22.5	25	29	34	40.5
K	34	39	45	53	65
Nx	26	28	31	36	41
Ny	9	10	13	15	20
Р	3	5	5	5	5
R	5.5	5.5	5.5	6.5	6.5
S	8	10	10	10	10
T	1.4	1.4	1.4	1.4	1.4
O-ring	1BP5	1BP7	1BP7	1BP7	1BP7
Mass kg	0.1	0.1	0.1	0.2	0.2

Notes: 1. Material: A2017BE-T4 Surface Finishing: Zircon Finishing (Zirconium Chemical Conversion Treatment)

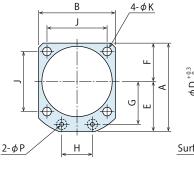
- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension A as a reference.
- 3. For other block thickness (dim. A), machine the surface Z or design a block referring to the drawing and apply surface treatment if necessary.

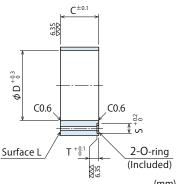
Manifold Block for LKA/LKC/LKE/LHA/LHC/LHE/LHS/LL

Model No. Indication

LZY 048

Size (Refer to following table) O - MD





1.7

C0.6

2-O-ring

(Included)

Model No.	LZY0360-MD	LZY0400-MD	LZY0480-MD	LZY0550-MD	LZY0650-MD	LZY0750-MD	LZY0900-MD	LZY1050-MD
	LKA0360 / LKE0360	LKA0400 / LKC0400	LKA0480 / LKC0480	LKA0550 / LKC0550	LKA0650 / LKC0650	LKA0750	LKA0900	LKA1050
Corresponding	LHA0360 / LHC0360	LKE0400 / LHA0400	LKE0480 / LHA0480	LKE0550 / LHA0550	LHA0650 / LHC0650	LHA0750	LHA0900	LHA1050
Model No.		LHC0400 / LHE0400				LHS0750	LHS0900	LHS1050
	LL0360	LHS0400 / LL0400	LHS0480 / LL0480	LHS0550 / LL0550	LL0650	LL0750	LL0900	LL1050
Α	49	54	61	69	81	92	107	122
В	40	45	51	60	70	80	95	110
C	20	20	27	30	32	37	45	50
D	36	40	48	55	65	75	90	105
Е	29	31.5	35.5	39	46	52	59.5	67
F	20	22.5	25.5	30	35	40	47.5	55
G	23.5	26	30	33.5	39.5	45	52.5	60
Н	16	18	22	24	30	32	37	45
J	31.4	34	40	47	55	63	75	88
K	4.5	5.5	5.5	6.8	6.8	9	11	14
Р	3	3	3	3	5	5	5	5
S	8	8	8	8	10	10	10	10
T	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
O-ring	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7	1BP7

Notes: 1. Material:S45C

kg

0.2

Mass

Surface Finishing: Alkaline Blackening

0.3

0.2

- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.
- 3. For other block thickness (dim. C), machine the surface L or design a block referring to the drawing and apply surface treatment if necessary.

0.5



■ Manifold Block for LM/LJ/LT/LG

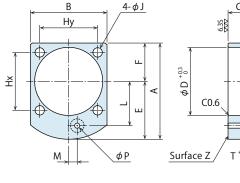
Model No. Indication

LZ 048
Size
(Refer to

following table)

0 – MS

Design No.
(Revision Number)



										(mm)
	Model No.	LZ0300-MS	LZ0360-MS	LZ0400-MS	LZ0480-MS	LZ0550-MS	LZ0650-MS	LZ0750-MS	LZ0900-MS	LZ1050-MS
	Corresponding Model No.	LG0301 / LT0301 LJ0302 / LM0300	LG036 / LT036 LJ0362 / LM0360	LG040□ / LT040□ LJ0402 / LM0400	LG048 / LT048 LJ0482 / LM0480		LG065 / LT065 LJ0652 / LM0650	LG075 / LT075 LJ0752 / LM0750	LG090□ LJ0902	LG105□ LJ1052
	А	48	51.5	56.5	62	70	82	93	107	122
	В	34	40	45	51	60	70	80	95	110
	С	18	20	20	27	30	32	37	45	50
	D	30	36	40	48	55	65	75	90	105
Ī	E	28.5	31.5	34	36.5	40	47	53	59.5	67
	F	19.5	20	22.5	25.5	30	35	40	47.5	55
	Hx	30	31.4	34	40	47	55	63	75	88
	Ну	23	31.4	34	40	47	55	63	75	88
	J	4.5	4.5	5.5	5.5	6.8	6.8	9	11	14
	L	20.5	23.5	26	30	33.5	39.5	45	52.5	60
	М	3	5	5	0	0	0	0	0	0
	Р	3	3	3	3	3	5	5	5	5
	S	8	8	8	8	8	10	10	10	10
	T	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	O-ring	1BP5	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7	1BP7
	Mass kg	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.2	1.7

Notes:

- 1. Material:S45C
- Surface Finishing: Alkaline Blackening
- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.
- 3. For other block thickness (dim. C), machine the surface Z or design a block referring to the drawing and apply surface treatment if necessary.

Manifold Block for LC/TC

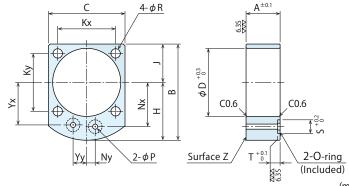
Model No. Indication

LZ 048

Size (Refer to following table)

0 - MP

___ Design No. (Revision Number)



									(mm)
Model No.	LZ0260-MP	LZ0300-MP	LZ0360-MP	LZ0400-MP	LZ0480-MP	LZ0550-MP	LZ0650-MP	LZ0750-MP	LZ0900-MP
Corresponding Model No.	LC0262	LC0302	LC0362	LC0402 / TC0402	LC0482 / TC0482	LC0552 / TC0552	LC0652 / TC0652	LC0752 / TC0752	LC0902
Α	18	18	20	20	27	30	32	37	45
В	43	48	51.5	56.5	62	70	82	93	107
C	29	34	40	45	51	60	70	80	95
D	26	30	36	40	48	55	65	75	90
Н	26.5	28.5	31.5	34	36.5	40	47	53	59.5
J	16.5	19.5	20	22.5	25.5	30	35	40	47.5
Kx	25	30	31.4	34	40	47	55	63	75
Ку	21	23	31.4	34	40	47	55	63	75
Nx	18.5	20.5	23.5	26	30	33.5	39.5	45	52.5
Ny	3	3	5	5	0	0	0	0	0
R	3.4	4.5	4.5	5.5	5.5	6.8	6.8	9	11
Yx	18.5	20.5	23.5	25	28	31	37	42.5	50
Yy	7	7	8	8	11	13	14	15	15
Р	3	3	3	3	3	3	5	5	5
S	8	8	8	8	8	8	10	10	10
T	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
O-ring	1BP5	1BP5	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7
Mass kg	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.2

Notes:

- 1. Material:S45C
- Surface Finishing: Alkaline Blackening
- 3. For other block thickness (dim. A), machine the surface Z or design a block referring to the drawing and apply surface treatment if necessary.

2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension A as a reference.

High-Power

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

C0.6

6.35

0-ring

(Included)

Manual Operat Accessories

Cautions / Others

Screw Locator VXF

Manual Expansion Locating Pin

VX

WHZ-MD
LZY-MD
LZ-MS
LZ-MP
TMZ-1MB
TMZ-2MB
DZ-M

Manifold Block / Nut

DZ-R

DZ-C

DZ-P
DZ-B
LZ-S
LZ-SQ
TNZ-S

TNZ-SQ WNZ-SQ

Pressure Switch

JBA

Pressure Gauge JGA/JGB

Manifold

Coupler Switch
PS

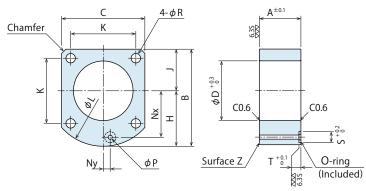
Manifold Block for TMA-1

Model No. Indication

TMZ 040

Size (Refer to following table) 0 - 1MB

Design No. (Revision Number)



(mm)

Model No.	TMZ0250-1MB	TMZ0400-1MB	TMZ0600-1MB	TMZ1000-1MB	TMZ1600-1MB	TMZ2500-1MB	TMZ3200-1MB
Corresponding Model No.	TMA0250-1	TMA0400-1	TMA0600-1	TMA1000-1	TMA1600-1	TMA2500-1	TMA3200-1
Α	18	21	24	28	35	42	46
В	56.5	62	69	83	95	110	122
С	45	51	60	73	85	100	110
D	33	36	43	48	60	70	85
Н	34	36.5	39	46.5	52.5	60	67
J	22.5	25.5	30	36.5	42.5	50	55
K	34	40	47	57	65	75	88
L	68	73	80	97	112	129	147
Nx	26	30	33.5	40	45	52.5	60
Ny	5	0	0	0	0	0	0
R	5.5	5.5	6.8	9	11	14	14
Р	3	3	3	3	5	5	5
S	8	8	8	8	10	10	10
T	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Chamfer	3	3	$(\phi 80)$ $(\phi 97)$ $(\phi 112)$ $(\phi 12)$		(φ129)	(φ147)	
O-ring	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7
Mass kg	0.2	0.3	0.5	0.9	1.4	2.2	2.6

Notes: 1.

- 1. Material: S45C Surface Finishing: A
 - Surface Finishing: Alkaline Blackening
- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension A as a reference.
- 3. For other block thickness (dim. A), machine the surface Z or design a block referring to the drawing and apply surface treatment if necessary.

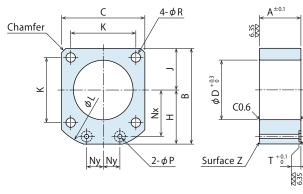
Manifold Block for TMA-2

Model No. Indication

TMZ 040

Size (Refer to following table) 0 – 2 M B

Design No.
(Revision Number)



(mm)

2-O-ring

(Included)

C0.6

Model No.	TMZ0250-2MB	TMZ0400-2MB	TMZ0600-2MB	TMZ1000-2MB	TMZ1600-2MB	TMZ2500-2MB	TMZ3200-2MB
Corresponding Model No.	TMA0250-2	TMA0400-2	TMA0600-2	TMA1000-2	TMA1600-2	TMA2500-2	TMA3200-2
Α	15	16	18	20	24	28	32
В	54	61	69	82.5	94.5	109.5	122
C	45	51	60	73	85	100	110
D	33	36	43	48	60	70	85
Н	31.5	35.5	39	46	52	59.5	67
J	22.5	25.5	30	36.5	42.5	50	55
K	34	40	47	57	65	75	88
L	68	75	83	100	113	133	147
Nx	26	30	33.5	40	45	52.5	60
Ny	9	10	12	15	16	18.5	20
R	5.5	5.5	6.8	9	11	14	14
Р	3	3	3	3	5	5	5
S	8	8	8	8	10	10	10
T	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Chamfer	3	3	3	4	5	8	(<i>ф</i> 147)
O-ring	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7
Mass kg	0.2	0.3	0.4	0.6	0.9	1.5	1.8

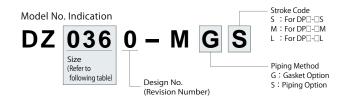
Notes: 1. Material:S45C

Surface Finishing: Alkaline Blackening

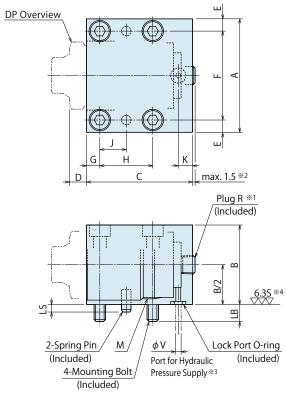
- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension A as a reference.
- 3. For other block thickness (dim. A), machine the surface Z or design a block referring to the drawing and apply surface treatment if necessary.



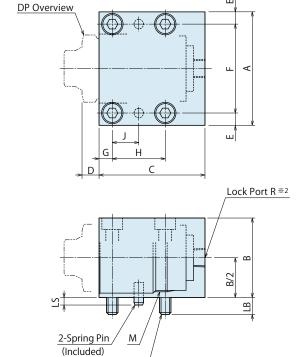
Manifold Block for DP



XThe drawing below shows DZ0-MG0 (Gasket option).



 $\fint The drawing below shows DZ$\subseteq 0-MS$\subseteq (Piping option).$



4-Mounting Bolt

(Included)

Notes:

- 1. Material: S45C Surface Finishing: Alkaline Blackening
- *1. G option: the R-thread plug is screwed in at shipment. There is variance in protrusion amount of the plug.
- ※2. Plug is not included in the S option.
- **3. Recommended hole size for a hydraulic pressure supply port drilled by Customer.
 Make sure there are no burrs around the connection and no cutting chips or other foreign substances inside.
- \times 4. The surface touching the O-ring should have a roughness of $\frac{6.35}{\checkmark\checkmark\checkmark}$.

	ΛG□	DZ0	220-N	ΛG□	DZ0	240-N	ΛG□	DZ03	300-N	MG□	DZ0	360-1	MG□	DZ0	450-l	MG□	DZ0	550-N	ΛG□	DZ0	650-1	MG□	DZ0	300-1	νG□			
Mod	el No.	DZ0	160-1	MS□	DZ0	220-N	۸S🗆	DZ0	240-N	۸S🗆	DZ0	300-1	MS□	DZ0	360-1	MS□	DZ0	450-	MS□	DZ0	550-1	NS□	DZ0	650-1	MS□	DZ0	B00-l	MS□
Stroke	e Code	S	М	L	S	М	L	S	М	L	S	М	1 L S M L		L	S M L		S	М	L	S	М	L	S	М	L		
Corresponding	Model No.	DP	0160		DP	0221		DP	0241	-	DP	DP0301-□		DP	0361	-	DP	0451		DP	0551	-	DP	0651	-	DP0801-□		
Model No.	Stroke Code	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L
	A		32			38			45			50			60			75			90			105			120	
	В		22			28			32			38			42			52			62			72			88	
(C	34	40	49	32.5	38.5	51.5	35	42.5	59	38.5	45.5	65	43	56	77	50	63	85.5	56	69.5	92	65	79	108.5	70	88	119
1	D		6			8			8			9			9			13			13			15			15	
	E		4.5			4.5			6			6			6.5			8.5			10			11			11	
	F		23			29			33			38			47			58			70			83			98	
	G		5			5			6			6		7		8		9			11			11				
1	Н	12	1	8	12	18	8	12	18	3	16	2	2	18	2	8	20	3	0	24	3	6	30	4	2	34	5.	2
	J	6	٥	9	6	9)	6	9)	8	1	1	9	1	4	10	1	5	12	1	8	15	2	1	17	2	6
	K		7.5			7.5			7.5			7.5			7.5			11.5			11.5			11.5			11.5	
L	.B		7			6			8			7			9			11			13			15			15	
L	_S		3			3			3			4			4			4			4			6			7	
M (Nomin	nal × Pitch)	М	16×1	1.5	M	22×1	1.5	М	24×1	.5	M3	30×1	1.5	M.	36×	1.5	M	45×	1.5	N	155×	2	M	165×	(2	N	80×	:2
	R		Rc1/8	3		Rc1/8	3		Rc1/8	3	F	Rc1/8	3	I	Rc1/8	3	1	Rc1/4	1	- 1	Rc1/4	ļ	F	Rc1/4	1	ı	Rc1/4	1
Mount	ing Bolt	M42	×0.7	×25	M42	×0.7	×30	M53	×0.8	×35	M5>	<0.8	×40	N	16×4	15	N	18×5	55	M10×65		65	М	12×	75	М	12×9	90
0-1	ring		1BP5	;		1BP5			1BP5			1BP5	5		1BP5	5		1BP7	7		1BP7	•		1BP7	7		1BP7	,
Sprir	ng Pin		φ3×	8	(φ3×8	3		φ3×8	3	¢	5×1	12	¢	5×1	12	¢	6×	12	¢	6×1	2	φ	8×1	16	φ	10×	20
,	V		3			3			3			5			5			5			5			5			5	
Ma	ass kg	0.15	0.15	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.6	0.7	1	1	1.2	1.7	1.5	1.8	2.5	2.2	2.8	3.8	3.2	4	5.5

High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation

Cautions / Others

Screw Locator VXF

Manual Expansion Locating Pin

VX

Manifold Block WHZ-MD

> LZY-MD LZ-MS LZ-MP

TMZ-1MB
TMZ-2MB
DZ-M

Manifold Block / Nut

DZ-R

DZ-C

DZ-P

DZ-B

LZ-S LZ-SQ TNZ-S

TNZ-SQ WNZ-SQ

Pressure Switch

JBA

Pressure Gauge JGA/JGB

(mm)

Manifold JX

Coupler Switch

PS

Manifold Block / Nut

Model DZ-R

Model DZ-C

Model DZ-P

Model DZ-B

Model LZ-S

Model LZ-SQ

Model TNZ-S

Model TNZ-SQ

Model WNZ-SQ



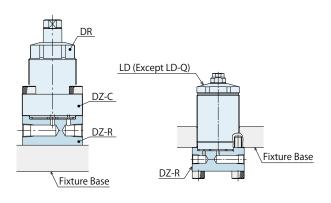
Applicable Model/Application Examples

DZ-R

Manifold Block for DR/LD/WNC

Corresponding Item Model No. : DR / LD / WNC



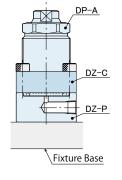


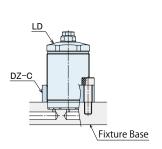
DZ-C

Flanged Nut for DP/DR/DS/DT/LD/WNC

Corresponding Item Model No.: DP / DR / DS / DT / LD / WNC









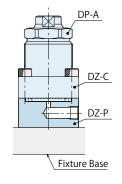
Applicable Model/Application Examples

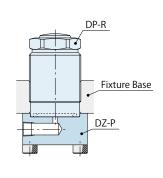
DZ-P

Manifold Block for DP

Corresponding Item Model No.: DP





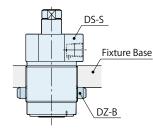


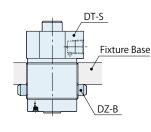
DZ-B

Bulkhead Nut for DP/DR/DS/DT

Corresponding Item Model No.: DP / DR / DS / DT







LZ-S

Manifold Block for LD/WNC

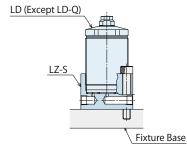
Corresponding Item Model No.:LD/WNC

TNZ-S

Manifold Block for TNC

Corresponding Item Model No. :TNC





LZ-SQ

Manifold Block for LD-Q

Corresponding Item Model No.:LD-Q

TNZ-SQ

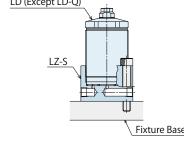
Manifold Block for TNC-Q

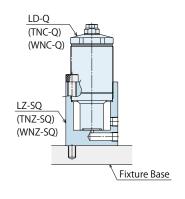
Corresponding Item Model No. :TNC-Q

WNZ-SQ

Manifold Block for WNC-Q

Corresponding Item Model No.: WNC-Q





High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Cautions / Others

Screw Locator VXF

Manual Expansion Locating Pin ٧X

Manifold Block

WHZ-MD LZY-MD LZ-MS LZ-MP

TMZ-1MB TMZ-2MB DZ-M

nifold Block

DZ-R

DZ-C DZ-P

DZ-B

LZ-SQ

TNZ-S

Pressure Switch

 JBA

Pressure Gauge

JGA/JGE

Manifold

JX

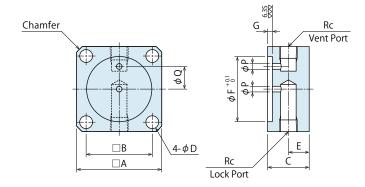
Coupler Switch

Manifold Block for DR/LD/WNC

Model No. Indication

DZ 036
Size
(Refer to following table)

O R
Design No. (Revision Number)



(mm)

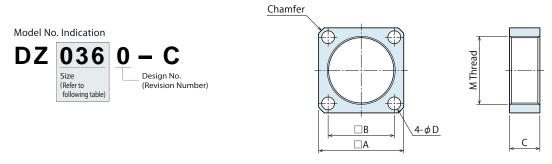
Model No.	DZ0220-R	DZ0240-R	DZ0260-R	DZ0300-R	DZ0360-R	DZ0450-R	DZ0550-R	DZ0600-R	DZ0650-R	DZ0800-R
Corresponding	DR0221	DR0241	-	DR0301	DR0361	DR0451	DR0551	-	DR0651	DR0801
Model No.	LD0222*1	-	LD0262*1	LD0302*1	LD0362*1	LD0452*1	-	-	-	-
Model No.	WNC0350	-	WNC0600	WNC1000	WNC1600	WNC3000	-	WNC6000	-	-
Α	28	32	35	38	45	55	70	75	80	90
В	21	23	26	29	35	42	54	59	62	72
С	19	19	19	22	22	25	25	25	25	28
D	4.5	5.5	5.5	5.5	6.8	9	11	11	14	14
Е	9.5	9.5	9.5	11	11	12.5	12.5	12.5	12.5	14
F	20.5	22.5	24.5	28.5	34.5	43.5	53	58	63	78
G	2.5	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	4
Р	2	3	2.5	3	3	5	5	5	5	5
Q	7	7.5	9.5	10	12.5	15	19	24	24	30
Rc	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/4	Rc1/4	Rc1/4	Rc1/4	Rc1/4
Chamfer	C2	C3	C3	C3	C3	C4	C5	C4	C5.5	C5.5
Mass kg	0.1	0.2	0.2	0.2	0.3	0.6	0.8	0.9	1.0	1.5

Notes: 1. Material:S45C

Surface Finishing: Alkaline Blackening

- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.
- $\label{thm:continuous} \mbox{$\% $1.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option. (Please select from LZ-SQ.) $$\mbox{$\% $1.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option.} $$\mbox{$4.$ It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option Hydraulic Advance Long Stroke Option Hydraulic Advance Long Stroke Optio$

Flange Nut for DP/DR/DS/DT/LD/WNC



(mm)

Model No.	DZ0160-C	DZ0220-C	DZ0240-C	DZ0260-C	DZ0300-C	DZ0360-C	DZ0450-C	DZ0550-C	DZ0600-C	DZ0650-C	DZ0800-C
	DP0160	DP0221	DP0241	-	DP0301	DP0361	DP0451	DP0551	-	DP0651	DP0801
	-	DR0221	DR0241	-	DR0301	DR0361	DR0451	DR0551	-	DR0651	DR0801
Corresponding	-	DS0221	DS0241	-	DS0301	DS0361	DS0451	DS0551	-	DS0651	DS0801
Model No.	-	_	-	-	-	DT0361	DT0451	DT0551	-	DT0651	DT0801
	-	LD0222	-	LD0262	LD0302	LD0362	LD0452	-	-	-	-
	-	WNC0350	-	WNC0600	WNC1000	WNC1600	WNC3000	-	WNC6000	-	
Α	25	28	32	35	38	45	55	70	75	80	90
В	18	21	23	26	29	35	42	54	59	62	72
C	12	14	14	14	15	16	18	20	22	25	25
D	4.5	4.5	5.5	5.5	5.5	6.8	9	11	11	14	14
$\textbf{M (Nominal} \times \textbf{Pitch)}$	M16×1.5	M22×1.5	M24×1.5	M26×1.5	M30×1.5	M36×1.5	M45×1.5	M55×2	M60×2	M65×2	M80×2
Chamfer	C2	C2	C3	C3	C3	C3	C4	C5	C4	C5.5	C5.5
Mass kg	0.04	0.04	0.06	0.07	0.08	0.1	0.2	0.4	0.45	0.5	0.6

Notes:

- 1. Material:S45C
- Surface Finishing: Alkaline Blackening
- $2. \ Mounting \ bolts \ are \ not \ provided. \ Prepare \ mounting \ bolts \ according \ to \ the \ mounting \ height \ using \ the \ dimension \ C \ as \ a \ reference.$

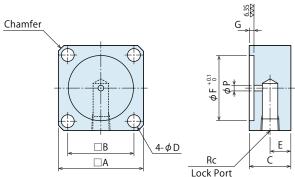


Manifold Block for DP

Model No. Indication

DΖ 036 Size (Refer to following table)

(Revision Number)



High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Cautions / Others

(mm) Screw Locator

VXF

WHZ-MD LZY-MD

> LZ-MS LZ-MP TMZ-1MB TMZ-2MB

Manifold Block

DZ-C

LZ-S

LZ-SQ TNZ-S

WNZ-SQ

Pressure Switch

Manifold

Manual Expansion Locating Pin ٧X

Manifold Block

DZ-M

DZ-R

DZ-P DZ-B

TNZ-SQ

JBA Pressure Gauge

JGA/JGB

JX

Coupler Switch

G-Thread Fitting

Chamfer		G
	□B 4-φD	Rc C Lock Port

Model No.	DZ0160-P	DZ0220-P	DZ0240-P	DZ0300-P	DZ0360-P	DZ0450-P	DZ0550-P	DZ0650-P	DZ0800-P
Corresponding Model No.	DP0160	DP0221	DP0241	DP0301	DP0361	DP0451	DP0551	DP0651	DP0801
Α	25	28	32	38	45	55	70	80	90
В	18	21	23	29	35	42	54	62	72
C	19	19	19	22	22	25	25	25	28
D	4.5	4.5	5.5	5.5	6.8	9	11	14	14
Е	9.5	9.5	9.5	11	11	12.5	12.5	12.5	14
F	14.5	20.5	22.5	28.5	34.5	43.5	53	63	78
G	1.5	2.5	2.5	2.5	2.5	3.5	3.5	3.5	4
Р	3	3	3	3	3	5	5	5	5
Rc	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/4	Rc1/4	Rc1/4	Rc1/4
Chamfer	C2	C2	C3	C3	C3	C4	C5	C5.5	C5.5
Mass kg	0.1	0.1	0.2	0.2	0.3	0.6	0.8	1.0	1.5

1. Material:S45C

Surface Finishing: Alkaline Blackening

2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.

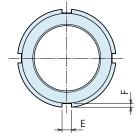
Bulkhead Nut for DP/DR/DS/DT

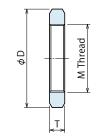
Model No. Indication

 $\mathsf{D}\mathsf{Z}$ Size

following table)







(mm)

Model No.	DZ0160-B	DZ0220-B	DZ0240-B	DZ0300-B	DZ0360-B	DZ0450-B	DZ0550-B	DZ0650-B	DZ0800-B
	DP0160	DP0221	DP0241	DP0301	DP0361	DP0451	DP0551	DP0651	DP0801
Corresponding	_	DR0221	DR0241	DR0301	DR0361	DR0451	DR0551	DR0651	DR0801
Model No.	_	DS0221	DS0241	DS0301	DS0361	DS0451	DS0551	DS0651	DS0801
	_	_	_	_	DT0361	DT0451	DT0551	DT0651	DT0801
D	25	32	38	45	52	65	75	85	105
Е	4	5	5	5	5	6	7	7	8
F	2	2	2	2	2	2.5	3	3	3.5
M (Nominal×Pitch)	M16×1.5	M22×1.5	M24×1.5	M30×1.5	M36×1.5	M45×1.5	M55×2	M65×2	M80×2
T	5	6	7	7	8	10	11	12	15
Mass kg	0.02	0.03	0.03	0.05	0.08	0.1	0.2	0.3	0.5

1. Material:S45C Note:

Surface Finishing: Alkaline Blackening

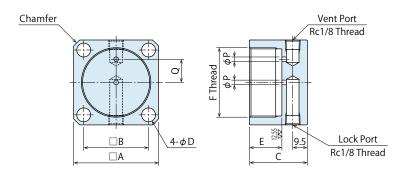
Manifold Block for LD/WNC

Model No. Indication

LZ 036

Size (Refer to following table) O – S

Design No.
(Revision Number)



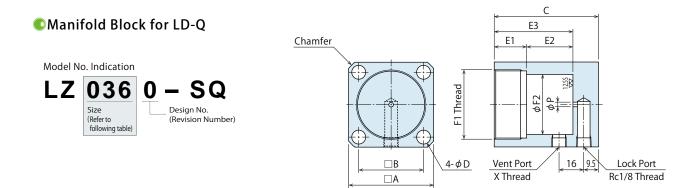
(mm)

Model No.	LZ0220-S	LZ0260-S	LZ0300-S	LZ0360-S	LZ0450-S	LZ0600-S
Corresponding	LD0222 (Except Q option)*1	LD0262 (Except Q option)*1	LD0302 (Except Q option)*1	LD0362 (Except Q option)*1	LD0452 (Except Q option)*1	-
Model No.	WNC0350	WNC0600	WNC1000	WNC1600	WNC3000	WNC6000
Α	28	35	38	45	55	75
В	21	26	29	35	42	59
С	30.5	32.5	33.5	34.5	37.5	41.5
D	4.5	5.5	5.5	6.8	9	11
Е	14	16	17	18	21	25
F (Nominal × Pitch)	M22×1.5	M26×1.5	M30×1.5	M36×1.5	M45×1.5	M60×2
Р	2	2.5	3	3	3	3
Q	7	9.5	11	13	15	24
Chamfer	C2	C3	C3	C3	C4	C4
Mass kg	0.12	0.20	0.24	0.34	0.52	1.12

Notes: 1. Material:S45C

Surface Finishing: Alkaline Blackening

- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.
- %1. It is not applicable for LD-Q: Work Support Hydraulic Advance Long Stroke Option. (Please select from LZ-SQ.)



(mm)

Model No.	LZ0220-SQ	LZ0260-SQ	LZ0300-SQ	LZ0360-SQ	LZ0450-SQ
Corresponding Model No.	LD0222-Q*2	LD0262-Q**2	LD0302-Q*2	LD0362-Q**2	LD0452-Q ^{*2}
Α	28	35	38	45	55
В	21	26	29	35	42
С	50	49.5	53	60.5	67.5
D	4.5	5.5	5.5	6.8	9
E1	14	16	17	18	21
E2	19.5	17	19.5	26	30
E3	33.5	33	36.5	44	51
F1 (Nominal×Pitch)	M22×1.5	M26×1.5	M30×1.5	M36×1.5	M45×1.5
F2	16	20	24	30	39
Р	3	3	3	3	3
X Thread	M5×0.8	Rc1/8	Rc1/8	Rc1/8	Rc1/8
Chamfer	C2	C3	C3	C3	C4
Mass kg	0.21	0.31	0.38	0.58	0.89

Notes: 1. Material: S450

Surface Finishing: Alkaline Blackening

- 2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.
- **2. It is not applicable for LD-EQ: Work Support Spring Advance Long Stroke Option. (Please select from LZ-S.)





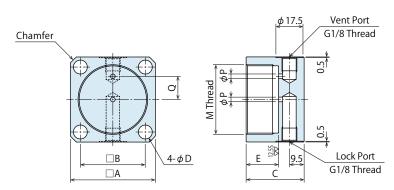
Model No. Indication

TNZ

060

following table)

(Revision Number)



High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Accessories

Cautions / Others

Screw Locator

VXF

Manual Expansion Locating Pin VX

Manifold Block

WHZ-MD LZY-MD LZ-MS LZ-MP TMZ-1MB

TMZ-2MB DZ-M

anifold Block

DZ-R DZ-C D7-P

D7-B LZ-SQ

WNZ-SQ

 JBA

Pressure Gauge JGA/JGB

Manifold

Coupler Switch

G-Thread Fitting

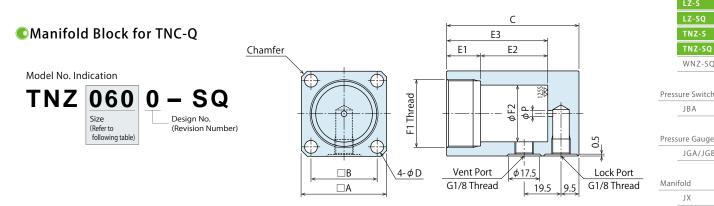
				(mm)
Model No.	TNZ0400-S	TNZ0600-S	TNZ1000-S	TNZ1600-S
Corresponding Model No.	TNC0400 (Except Q option)**3	TNC0600 (Except Q option)*3	TNC1000 (Except Q option)*3	TNC1600 (Except Q option)*3
Α	35	38	45	55
В	26	29	35	42
С	32.5	33.5	34.5	37.5
D	5.5	5.5	6.8	9
E	16	17	18	21
M (Nominal×Pitch)	M26×1.5	M30×1.5	M36×1.5	M45×1.5
Р	2.5	3	3	3
Q	9.5	11	13	15
Chamfer	C3	C3	C3	C4
Mass kg	0.20	0.23	0.34	0.52

1. Material:S45C Notes:

Surface Finishing: Alkaline Blackening

2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.

**3. It is not applicable for TNC-Q: Work Support Hydraulic Advance Long Stroke Option. (Please select from TNC-SQ.)

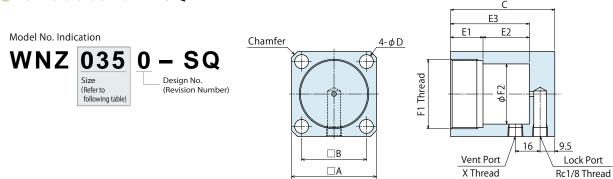


				(mm)
Model No.	TNZ0400-SQ	TNZ0600-SQ	TNZ1000-SQ	TNZ1600-SQ
Corresponding Model No.	TNC0400-Q	TNC0600-Q	TNC1000-Q	TNC1600-Q
Α	35	38	45	55
В	26	29	35	42
С	56	63.5	70	86.5
D	5.5	5.5	6.8	9
E1	16	17	18	21
E2	23.5	30	35.5	49
E3	39.5	47	53.5	70
F1 (Nominal×Pitch)	M26×1.5	M30×1.5	M36×1.5	M45×1.5
F2	20	24	30	39
Р	2.5	3	3	3
Chamfer	C3	C3	C3	C4
Mass kg	0.36	0.46	0.68	1.16

Notes: 1. Material:S45C Surface Finishing: Alkaline Blackening

2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.

Manifold Block for WNC-Q



(mm)

Model No.	WNZ0350-SQ	WNZ0600-SQ	WNZ1000-SQ	WNZ1600-SQ	WNZ3000-SQ	WNZ6000-SQ
Corresponding Model No.	WNC0350-Q	WNC0600-Q	WNC1000-Q	WNC1600-Q	WNC3000-Q	WNC6000-Q
Α	28	35	38	45	55	75
В	21	26	29	35	42	59
С	49	51	52	56	59	68
D	4.5	5.5	5.5	6.8	9	11
E1	14	16	17	18	21	25
E2	18.5	18.5	18.5	21.5	21.5	26.5
E3	32.5	34.5	35.5	39.5	42.5	51.5
F1 (Nominal×Pitch)	M22×1.5	M26×1.5	M30×1.5	M36×1.5	M45×1.5	M60×2
F2	16	20	24	30	39	53
X Thread	M5×0.8	Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/8
Chamfer	C2	C3	C3	C3	C4	C4
Mass kg	0.20	0.32	0.37	0.55	0.79	1.75

Notes: 1. Material: S45C Surface Finishing: Alkaline Blackening

2. Mounting bolts are not provided. Prepare mounting bolts according to the mounting height using the dimension C as a reference.



MEMO

High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation Accessories

Cautions / Others

Screw Locator

VXF

Manual Expansion Locating Pin

٧X

Manifold Block

WHZ-MD LZY-MD

LZ-MS LZ-MP

TMZ-1MB TMZ-2MB

DZ-M

Manifold Block

DZ-R

DZ-C

DZ-P DZ-B

LZ-S

LZ-SQ TNZ-S

TNZ-SQ

WNZ-SQ

Pressure Switch

JBA

Pressure Gauge

JGA/JGB

Manifold

JX

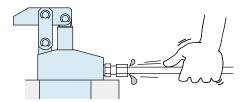
Coupler Switch

PS

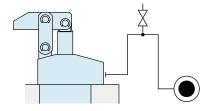
Cautions

Installation Notes (For Hydraulic Series)

- 1) Check the Usable Fluid
- Please use the appropriate fluid by referring to the Hydraulic Fluid List.
- 2) Procedure before Piping
- The pipeline, piping connector and fixture circuits should be cleaned by thorough flushing.
- The dust and cutting chips in the circuit may lead to fluid leakage and malfunction.
- There is no filter provided with Kosmek's product except for a part of valves which prevents foreign materials and contaminants from getting into the circuit.
- 3) Applying Sealing Tape
- Wrap with tape 1 to 2 times following the screw direction.
- Pieces of the sealing tape can lead to oil leakage and malfunction.
- In order to prevent a foreign substance from going into the product during the piping work, it should be carefully cleaned before working.
- 4) Air Bleeding of the Hydraulic Circuit
- If the hydraulic circuit has excessive air, the action time may become very long. If air enters the circuit after connecting the hydraulic port or under the condition of no air in the oil tank, please perform the following steps.
- ① Reduce hydraulic pressure to less than 2MPa.
- ② Loosen the cap nut of pipe fitting closest to the clamp by one full turn.
- ③ Wiggle the pipeline to loosen the outlet of pipe fitting. Hydraulic fluid mixed with air comes out.



- ④ Tighten the cap nut after bleeding.
- ③ It is more effective to bleed air at the highest point inside the circuit or at the end of the circuit.
 - (Set an air bleeding valve at the highest point inside the circuit.)



- 5) Checking Looseness and Retightening
- At the beginning of the machine installation, the bolt and nut may be tightened lightly. Check the looseness and re-tighten as required.

Hydraulic Fluid List

	IS	60 Viscosity Grade ISO-VG-32
Maker	Anti-Wear Hydraulic Oil	Multi-Purpose Hydraulic Oil
Showa Shell Sekiyu	Tellus S2 M 32	Morlina S2 B 32
Idemitsu Kosan	Daphne Hydraulic Fluid 32	Daphne Super Multi Oil 32
JX Nippon Oil & Energy	Super Hyrando 32	Super Mulpus DX 32
Cosmo Oil	Cosmo Hydro AW32	Cosmo New Mighty Super 32
ExxonMobil	Mobil DTE 24	Mobil DTE 24 Light
Matsumura Oil	Hydol AW-32	
Castrol	Hyspin AWS 32	

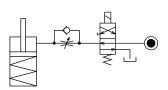
Note As it may be difficult to purchase the products as shown in the table from overseas, please contact the respective manufacturer.

Notes on Hydraulic Cylinder Speed Control Unit

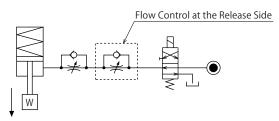


Please pay attention to the cautions below. Design the hydraulic circuit for controlling the action speed of hydraulic cylinder. Improper circuit design may lead to malfunctions and damages. Please review the circuit design in advance.

Flow Control Circuit for Single Acting Cylinder
 For spring return single acting cylinders, restricting flow during release can extremely slow down or disrupt release action.
 The preferred method is to control the flow during the lock action using a valve that has free-flow in the release direction.
 It is also preferred to provide a flow control valve at each actuator.

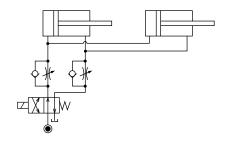


Accelerated clamping speed by excessive hydraulic flow to the cylinder may sustain damage. In this case add flow control to regulate flow. (Please add flow control to release flow if the lever weight is put on at the time of release action when using swing clamps.)

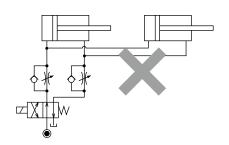


Flow Control Circuit for Double Acting Cylinder
Flow control circuit for double acting cylinder should have meter-out
circuits for both the lock and release sides. Meter-in control can
have adverse effect by presence of air in the system.
However, in the case of controlling LKE, TMA, TLA, both lock side
and release side should be meter-in circuit.
Refer to P.75 for speed adjustment of LKE.
For TMA and TLA, if meter-out circuit is used, abnormal high
pressure is created, which causes oil leakage and damage.

[Meter-out Circuit] (Except LKE/TMA/TLA)

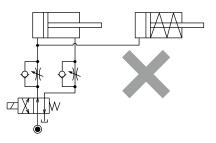


[Meter-in Circuit] (LKE/TMA/TLA must be controlled with meter-in.)



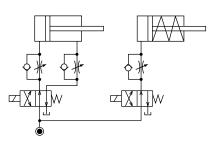
In the case of meter-out circuit, the hydraulic circuit should be designed with the following points.

 Single acting components should not be used in the same flow control circuit as the double acting components.
 The release action of the single acting cylinders may become erratic or very slow.

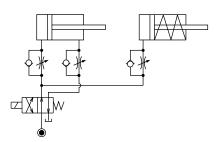


Refer to the following circuit when both the single acting cylinder and double acting cylinder are used together.

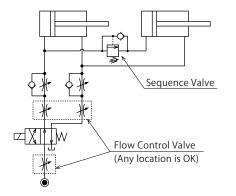
O Separate the control circuit.



O Reduce the influence of double acting cylinder control unit. However, due to the back pressure in tank line, single action cylinder is activated after double action cylinder works.



② In the case of meter-out circuit, the inner circuit pressure may increase during the cylinder action because of the fluid supply. The increase of the inner circuit pressure can be prevented by reducing the supplied fluid beforehand via the flow control valve. Especially when using sequence valve or pressure switches for clamping detection. If the back pressure is more than the set pressure then the system will not work as it is designed to.



High-Power

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation Accessories

Cautions / Others

Cautions

Installation Notes (For Hydraulic Series) Hydraulic Fluid List

Notes on Handling

Maintenance/ Inspection Warranty

Company Profile

Company Profile

Our Products

History

Index

Search by Alphabetical Order

Sales Offices

Cautions

Notes on Handling

- 1) It should be handled by qualified personnel.
- The hydraulic machine and air compressor should be handled and maintained by qualified personnel.
- 2) Do not handle or remove the machine unless the safety protocols are ensured
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the preventive devices are in place.
- ② Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
- ③ After stopping the machine, do not remove until the temperature cools down.
- Make sure there is no abnormality in the bolts and respective parts
 before restarting the machine or equipment.
- 3) Do not touch clamp (cylinder) while clamp (cylinder) is working. Otherwise, your hands may be injured due to clinching.

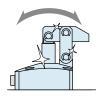


- 4) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

Maintenance and Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
- Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
- Make sure there is no abnormality in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the piston rod and plunger.
- If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage and air leaks.









- Please clean out the reference surface regularly (taper reference surface and seating surface) of locating machine. (VS/VT/VFL/ VFM/VFJ/VFK/WVS/VWM/VWK/VX/VXF)
- Location products, except VX/VXF model, can remove contaminants with cleaning functions.
 When installing pallets makes sure there is no thick sludge like substances on pallets.
- Continuous use with dirt on components will lead to locating functions not work properly, leaking and malfunction.





- 4) If disconnecting by couplers on a regular basis, air bleeding should be carried out daily to avoid air mixed in the circuit.
- 5) Regularly tighten nuts, bolts, pins, cylinders and pipe line to ensure proper use.
- 6) Make sure the hydraulic fluid has not deteriorated.
- 7) Make sure there is smooth action and no abnormal noise.
- Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
- 8) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 9) Please contact us for overhaul and repair.

Installation Notes (For Hydraulic Series) Hydraulic Fluid List Notes on Hydraulic Cylinder Speed Control Circuit Notes on Handling Maintenance/Inspection Warranty



Warranty

- 1) Warranty Period
- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.
- 2) Warranty Scope
- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense.
 Defects or failures caused by the following are not covered.
- ① If the stipulated maintenance and inspection are not carried out.
- ② If the product is used while it is not suitable for use based on the operator's judgment, resulting in defect.
- ③ If it is used or handled in inappropriate way by the operator. (Including damage caused by the misconduct of the third party.)
- ④ If the defect is caused by reasons other than our responsibility.
- ⑤ If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
- ⑥ Other caused by natural disasters or calamities not attributable to our company.
- Parts or replacement expenses due to parts consumption and deterioration.
 (Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

Pneumatic Series

High-Power Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation
Accessories

Cautions / Others

Cautions

Installation Notes (For Hydraulic Series)

Hydraulic Fluid List

Notes on Hydraulic Cylinder Speed Control Circuit

Notes on Handling
Maintenance/

Warranty

Company Profile

Company Profile

Our Products

History

Index

Search by Alphabetical Order

Sales Offices



Sales Offices

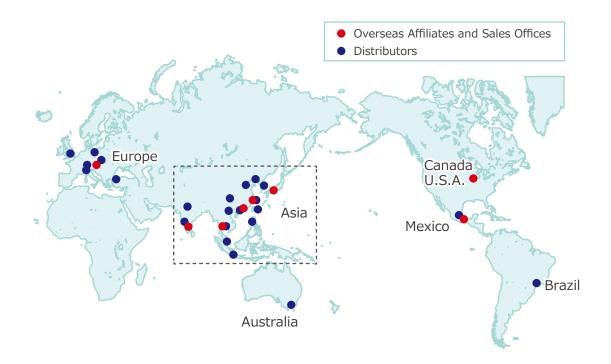
Sales Offices across the World

Japan	TEL. +81-78-991-5162	FAX. +81-78-991-8787
Overseas Sales	KOSMEK LTD. 1-5, 2-chome, Murotani, Ni 〒651-2241 兵庫県神戸市西区室谷2丁目1番	shi-ku, Kobe-city, Hyogo, Japan 651-2241 5号
USA	TEL. +1-630-620-7650	FAX. +1-630-620-9015
KOSMEK (USA) LTD.	650 Springer Drive, Lombard, IL 60148 US	5A
Mexico	TEL. +52-442-161-2347	
KOSMEK USA Mexico Office	Blvd Jurica la Campana 1040, B Colonia P	unta Juriquilla Queretaro, QRO 76230 Mexico
EUROPE	TEL. +43-463-287587	FAX. +43-463-287587-20
KOSMEK EUROPE GmbH	Schleppeplatz 2 9020 Klagenfurt am Wö	rthersee Austria
China	TEL. +86-21-54253000	FAX. +86-21-54253709
KOSMEK (CHINA) LTD. 考世美(上海)貿易有限公司	Room601, RIVERSIDE PYRAMID No.55, Lai 中国上海市浦东新区浦三路21弄55号银亿滨江中	ne21, Pusan Rd, Pudong Shanghai 200125, China 中心601室 200125
India	TEL. +91-9880561695	
KOSMEK LTD - INDIA	F 203, Level-2, First Floor, Prestige Center	Point, Cunningham Road, Bangalore -560052 India
Thailand	TEL. +66-2-300-5132	FAX. +66-2-300-5133
Thailand Representative Office	67 Soi 58, RAMA 9 Rd., Suanluang, Suanlu	uang, Bangkok 10250, Thailand
Taiwan (Taiwan Exclusive Distributor) Full Life Trading Co., Ltd. 盈生貿易有限公司	TEL. +886-2-82261860 16F-4, No.2, Jian Ba Rd., Zhonghe District, Nev 台湾新北市中和區建八路2號 16F-4(遠東世紀	•
Philippines (Philippines Exclusive Distributor)	TEL. +63-2-310-7286	FAX. +63-2-310-7286
and the second s		
G.E.T. Inc, Phil.	Victoria Wave Special Economic Zone Mt. Apo Buildin	ng, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427
G.E.T. Inc, Phil. Indonesia (Indonesia Exclusive Distributor)	Victoria Wave Special Economic Zone Mt. Apo Buildin TEL. +62-21-29628607	rg, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427 FAX. +62-21-29628608

Sales Offices in Japan

Head Office Osaka Sales Office	TEL. 078-991-5162	FAX. 078-991-8787
Overseas Sales	〒651-2241 兵庫県神戸	市西区室谷2丁目1番5号
Talana Calaa Offica	TEL. 048-652-8839	FAX. 048-652-8828
Tokyo Sales Office	〒331-0815 埼玉県さい	たま市北区大成町4丁目81番地
Nagava Salas Offica	TEL. 0566-74-8778	FAX. 0566-74-8808
Nagoya Sales Office	〒446-0076 愛知県安城	市美園町2丁目10番地1
Fuluralia Calaa Offica	TEL. 092-433-0424	FAX. 092-433-0426
Fukuoka Sales Office	〒812-0006 福岡県福岡	市博多区上牟田1丁目8-10-101
	〒812-0006 福岡県福岡	市博多区上牟田1丁目8-10-101 ————————————————————————————————

Global Network



Asia Detailed Map





