

New

Ejector Coupler Center Pull Back

Manual to Automation!

**For Cycle Time Reduction / Toolless Setup /
Setup Time Reduction / Product Improvement**

Ejector Coupler

Model **PMC**



Center Pull Back

Model **PMD**



Ejector Coupler

Center Pull Back

Model PMC



Model PMD

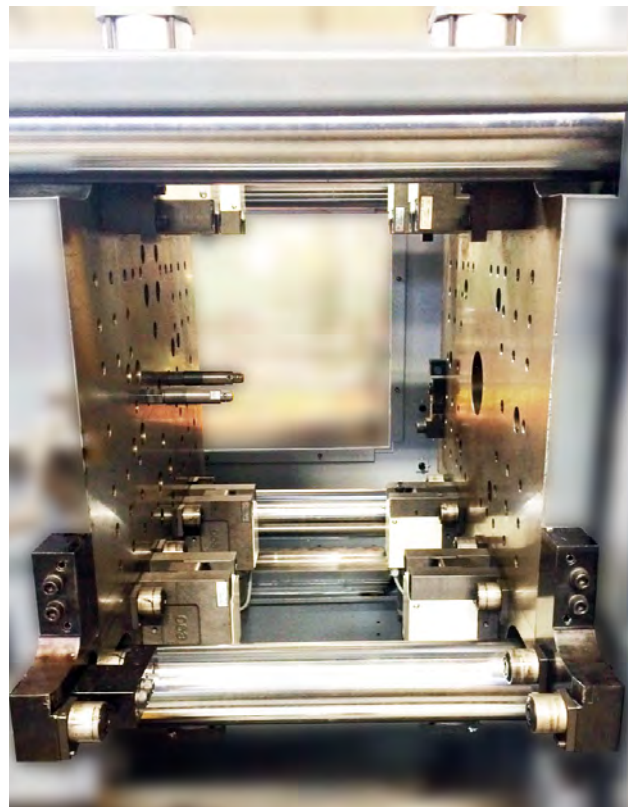
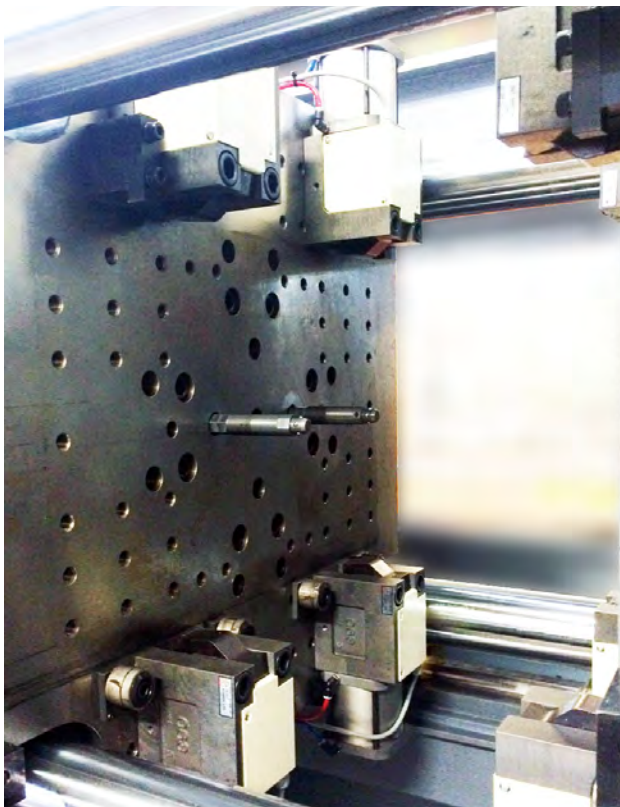


Manual to Automation!

Drastically reduce the setup time. Ball Lock Joint for Powerful Connection

Advantages

- One Touch to Connect Ejector Rods
- Mold Change Time Reduction



Ejector Coupler

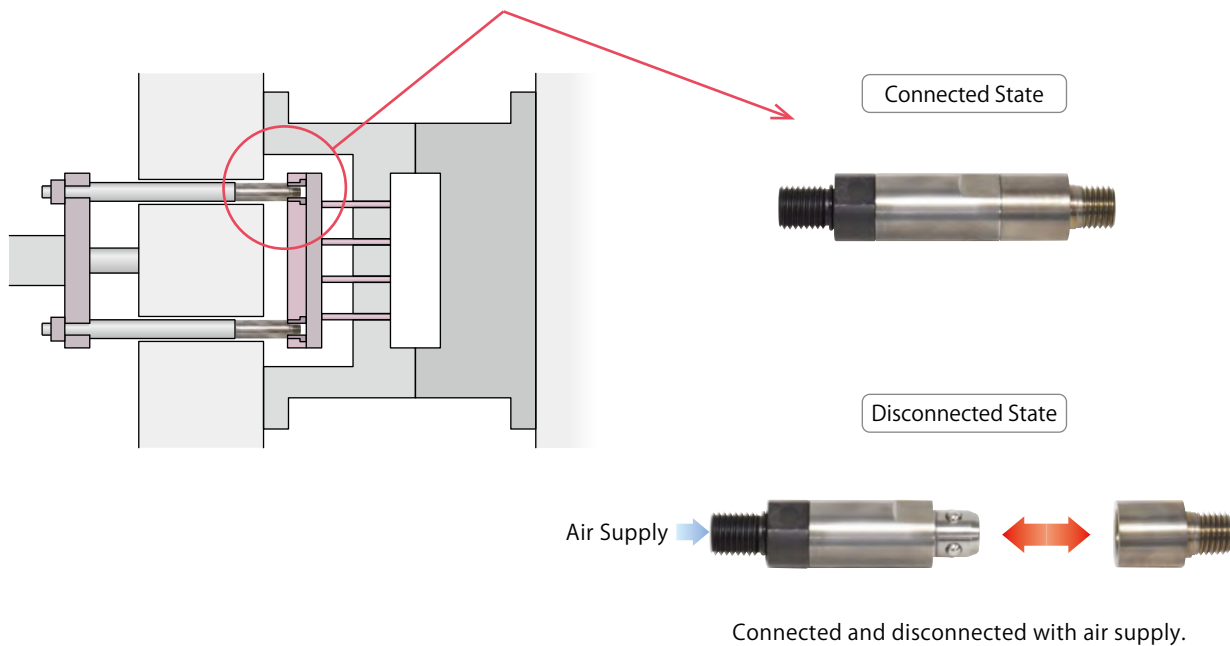
Ejector Coupler

PMC

Center Pull Back

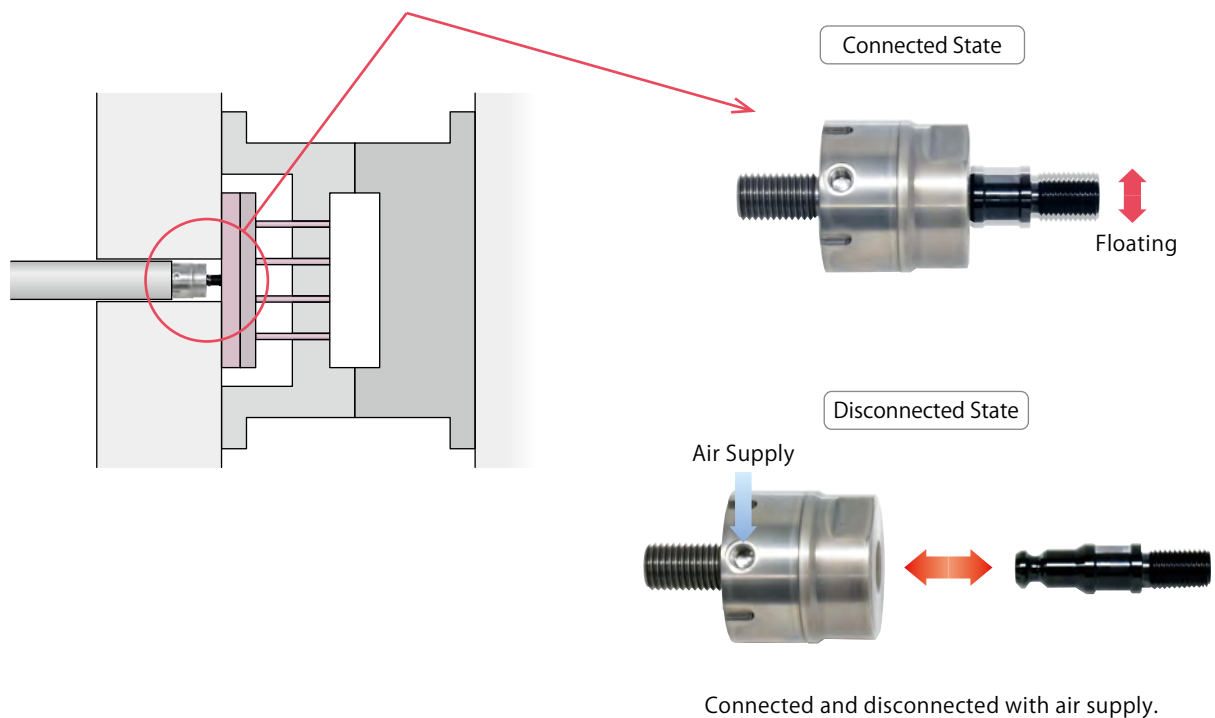
PMD

- Automatic connection of the extrusion plate and ejector rods reduces setup time.



Center Pull Back

- Automatic connection with the ejector plate reduces setup time.
- Compact body with large floating for smooth connection and disconnection.



Model No. Indication

PMC **025** **0** - **P**

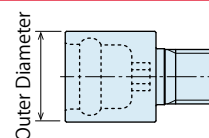
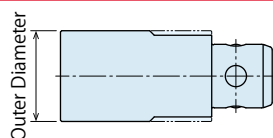
1
2
3

1 Body Size

025 : Outer Diameter ϕ 25mm

030 : Outer Diameter ϕ 30mm

040 : Outer Diameter ϕ 40mm



2 Design No.

0 : Revision Number

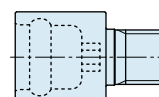
3 Classification

P : Plug

S : Socket

P : Plug

S : Socket



Specifications

Model No.		PMC0250	PMC0300	PMC0400
Max. Allowable Stretching Force	kN	10	16	25
Max. Allowable Compressive Force	kN	25	40	63
Release Cylinder Capacity	cm ³	0.90	1.73	3.53
Air Pressure	MPa	0.3~1.0		
Withstanding Pressure	MPa	1.5		
Operating Temperature	°C	0~120		

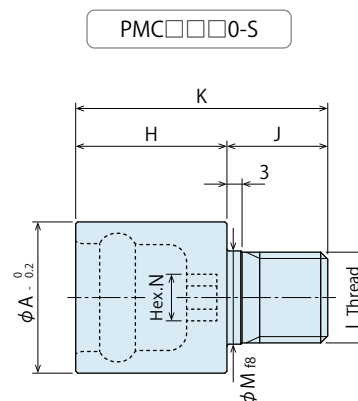
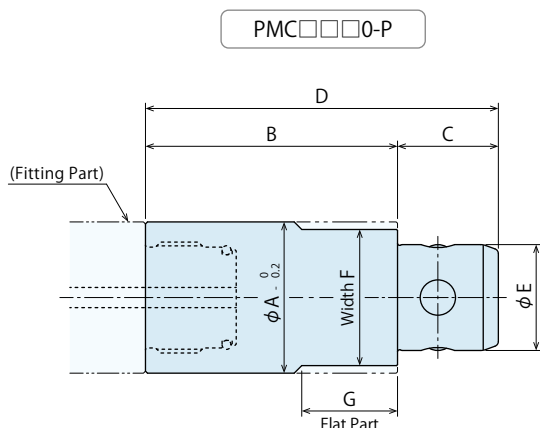
External Dimensions : PMC

Ejector Coupler

PMC

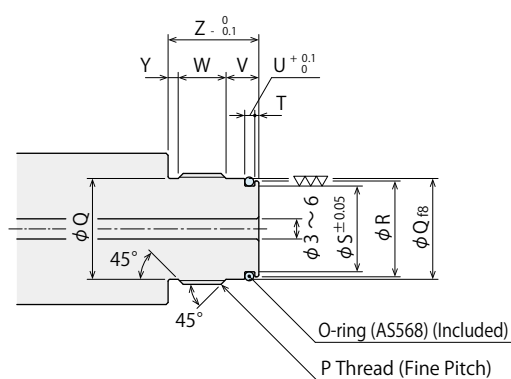
Center Pull Back

PMD



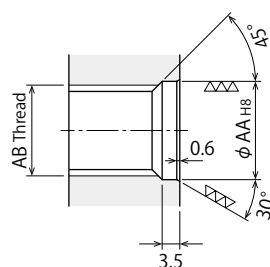
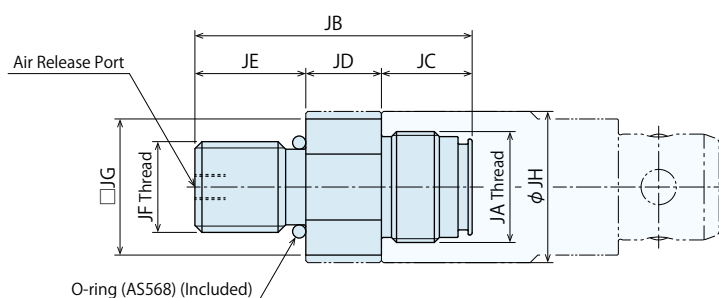
Fitting Edge Machining Dimensions

Prepared by Customer



Accessory : Joint for PMC

Model No. Indication

PMCZ 25 1 - JSize
(Refer to the table)Design No.
(Revision Number)

Model No.	PMC0250	PMC0300	PMC0400
Plug Dimensions			
A	25	30	40
B	45	50	55
C	17	20	26
D	62	70	81
E	17.5	21	28
F	22	27	36
G	14	18	22
Socket Dimensions			
H	25	30	38
J	19	22	29
K	44	52	67
L	M16 x 2	M18 x 2.5	M24 x 3
M	16.5 $\begin{smallmatrix} -0.016 \\ -0.043 \end{smallmatrix}$	18.5 $\begin{smallmatrix} -0.020 \\ -0.053 \end{smallmatrix}$	24.5 $\begin{smallmatrix} -0.020 \\ -0.053 \end{smallmatrix}$
N	8	10	12
Fitting Edge Machining Dimensions			
P	M18 x 1.5	M22 x 1.5	M26 x 1.5
Q	16	20	24
Qf8	16 $\begin{smallmatrix} -0.016 \\ -0.043 \end{smallmatrix}$	20 $\begin{smallmatrix} -0.020 \\ -0.053 \end{smallmatrix}$	24 $\begin{smallmatrix} -0.020 \\ -0.053 \end{smallmatrix}$
R	15	19	23
S	13	17	21
T	0.8	0.8	0.8
U	2	2	2
V	6.5	6.5	6.5
W	9.5	9.5	10
Y	2	2	2
Z	18	18	18.5
O-ring (AS568 Series)	AS568-014 (75)	AS568-016 (75)	AS568-019 (75)

Model No.	PMCZ251-J	PMCZ301-J	PMCZ401-J
Joint Dimensions			
JA	M18 x 1.5	M22 x 1.5	M26 x 1.5
JB	53	55	65.5
JC	18	18	18.5
JD	15	15	20
JE	20	22	27
JF	M16 x 2	M18 x 2.5	M24 x 3
JG	22	27	36
JH	25	30	40
O-ring (AS568 Series)	AS568-014 (75)	AS568-113 (75)	AS568-117 (75)
Air Release Port	M5x0.8 Thread Depth 6	M5x0.8 Thread Depth 6	Rc1/8 Thread
AA	16.5 $\begin{smallmatrix} +0.027 \\ 0 \end{smallmatrix}$	19.5 $\begin{smallmatrix} +0.033 \\ 0 \end{smallmatrix}$	25 $\begin{smallmatrix} +0.033 \\ 0 \end{smallmatrix}$
AB	M16 x 2	M18 x 2.5	M24 x 3

Model No. Indications

PMD **053** **0** - **R**

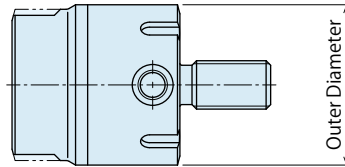
1
2
3

1 Body Size

053 : Outer Diameter ϕ 53mm

063 : Outer Diameter ϕ 63mm

078 : Outer Diameter ϕ 78mm



2 Design No.

0 : Revision Number

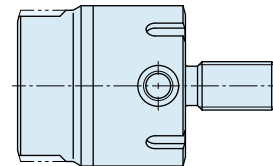
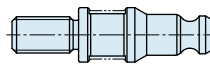
3 Classification

R : Rod

C : Coupler

R : Rod

C : Coupler



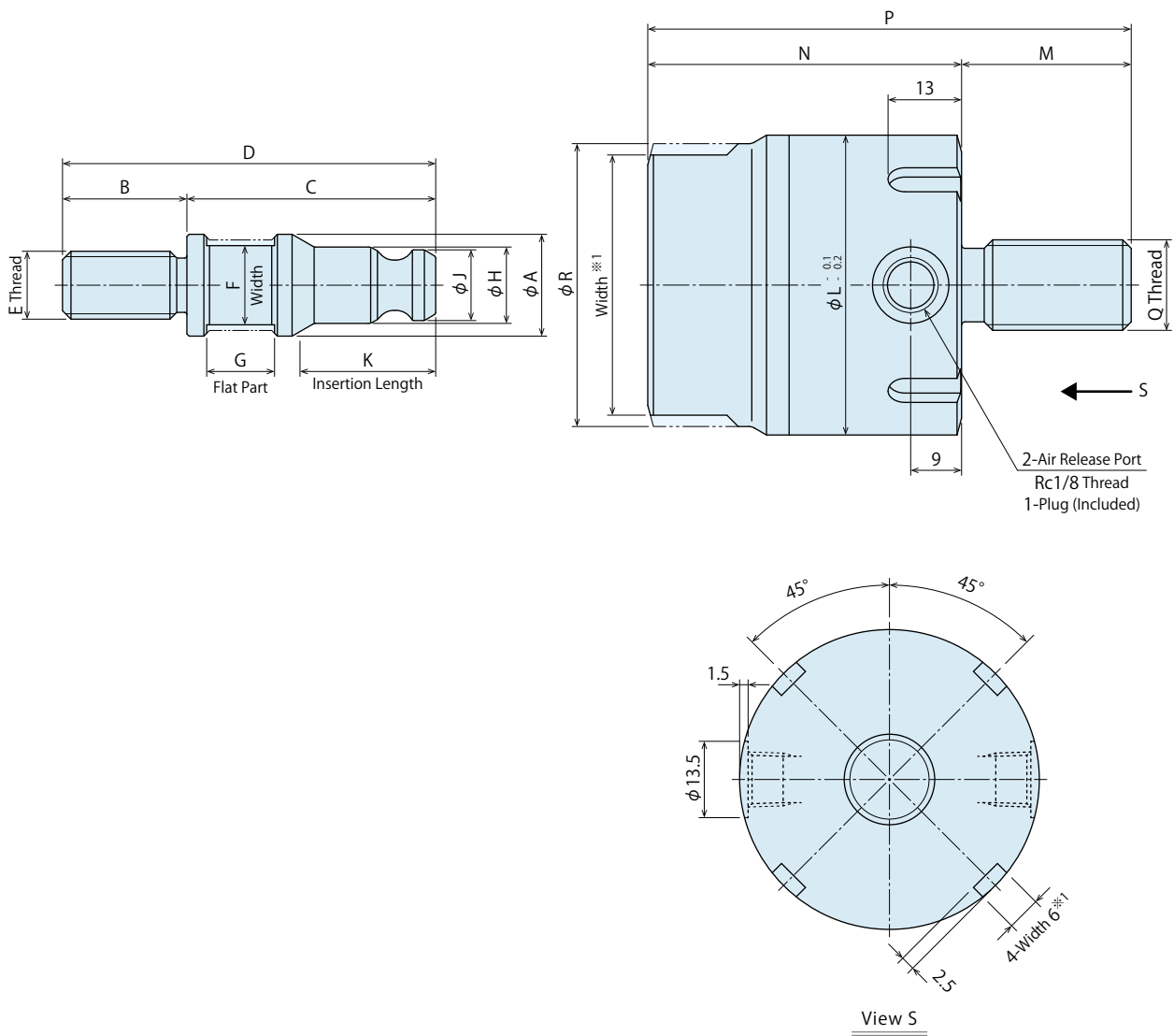
Specifications

Model No.		PMD0530	PMD0630	PMD0780
Max. Allowable Stretching Force	kN	10	16	25
Max. Allowable Compressive Force	kN	16	25	45
Allowable Offset	mm	1.0	1.2	1.5
Release Cylinder Capacity	cm ³	5.26	8.31	15.36
Air Pressure	MPa	0.3 ~ 1.0		
Withstanding Pressure	MPa	1.5		
Operating Temperature	°C	0 ~ 120		

External Dimensions : PMD

PMD□□□0-R

PMD□□□0-C



Ejector Coupler

PMC

Center Pull Back

PMD

Model No.		PMD0530	PMD0630	PMD0780
Rod Dimensions	A	18	21	28
	B	22	28	35
	C	44	52	70
	D	66	80	105
	E	M12 x 1.75	M16 x 2	M20 x 2.5
	F	14	17	22
	G	12	14.5	19
	H	13.5	16.5	21.5
	J	12.5	15.5	20.5
Coupler Dimensions	K	24	27.5	35.5
	L	53	63	78
	M	30	35	45
	N	55.5	60	72.5
	P	85.5	95	117.5
	Q	M16 x 2	M20 x 2.5	M24 x 3
	R	50	60	75

Note:

- ※1. Use the slot of Width 6 to mount and remove a coupler with hook spanner.
If using flat part it may lead to damage or injury.

Cautions

Notes for Design

- 1) Check specifications. (PMC : Page 3, PMD : Page 5)
 - The hydraulic machine/air compressor should be handled and maintained by qualified personnel.
- 2) Do not connect couplers when contaminants are adhered.
 - If there are contaminants adhered on edge of each coupler, make sure to remove them with air blow. Otherwise it cannot be connected properly.

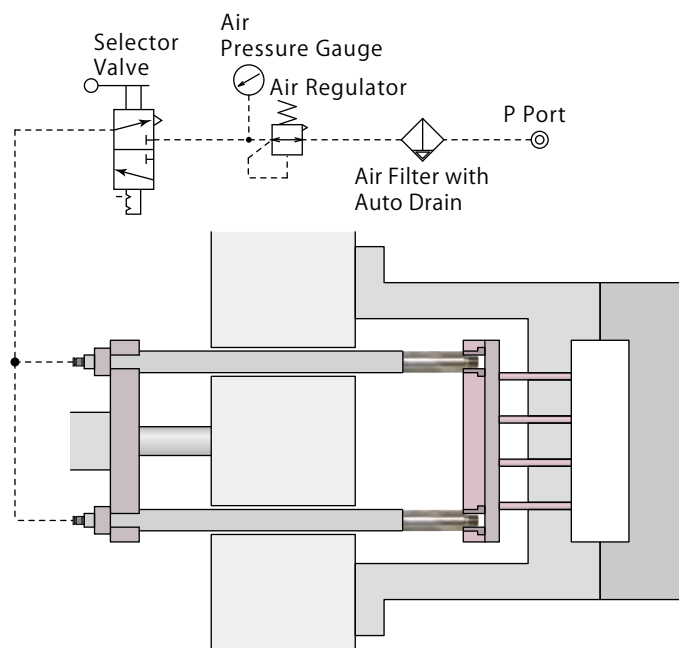
Installation Notes

- 1) Please supply clean dry air.
 - Install an air filter/air dryer in order to prevent rust and dirt. Otherwise it may lead to malfunction.
- 2) Procedure before Piping
 - The pipeline and piping connector should be cleaned by thorough flushing. The dust and cutting chips in the circuit may lead to air leakage and malfunction.
(The filter which removes contaminant in the air circuit is not provided.)
- 3) Applying Sealing Tape
 - Wrap with tape 1 to 2 times following the screwing direction. When piping, be careful that contaminants such as sealing tape do not enter in products. Pieces of the sealing tape can lead to air leaks and malfunction.
- 4) Installation of the Product
 - For installation of the plug (coupler) body and socket (rod), tighten them with tightening torque 100N · m.

Notes on Handling

- 1) It should be handled by qualified personnel.
- 2) Do not handle or remove the product unless the safety is 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 product is removed, make sure that the above-mentioned safety measures are in place.
 - ③ After stopping the machine, do not remove the product until the temperature cools down.
 - ④ Make sure there is no abnormality in the respective parts before restarting the machine or equipment.
- 3) Do not disassemble or modify.
 - If the product is taken apart or modified, the warranty will be voided even within the warranty period.
- 4) Do not touch the product while it is working.
 - Otherwise, your hands may be injured due to clinching.

【Air Circuit Example】



※ Select the selector valve according to customer's usage.

● Maintenance/Inspection

- 1) Removal of the Machine and Shut-off of Air Source
 - Before the product is removed, make sure that the above-mentioned safety measures are in place.
Shut off the pressure source and power source and make sure no pressure exists in the air circuit. Also, make sure there is no abnormality in the bolts and respective parts before restarting.
- 2) Periodically ensure that piping, plug body and socket are securely tightened.
- 3) Periodically ensure that supply air pressure is a specified value.
- 4) Make sure to supply filtered clean dry air.
- 5) Make sure there is smooth action and no abnormal noise.
 - Especially when it is restarted after being left unused for a long period, make sure it can be operated properly.
- 6) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 7) Please contact us for overhaul and repair.

● 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 inappropriately 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 damages caused by natural disasters or calamities not attributable to our company.
 - ⑦ 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.

KOSMEK

Harmony in Innovation

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