

## Swage coupling (applicable to both Mark 10 and Mark 9)

**[Swage coupling]** \* For any couplings which are not introduced in the catalogue, please contact us.

### A Coupling deduction length

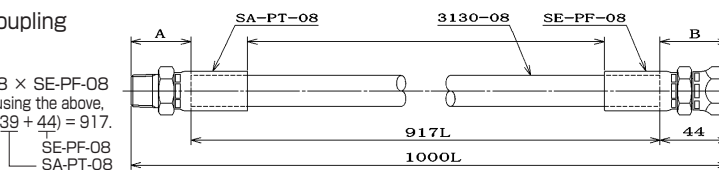
The cutting length of a hose is obtained by the hose-coupling assembly length minus the coupling deduction length\*.

\* Coupling deduction length :

A (SA coupling) and

B (SE, SF coupling) in the figure.

Ex. 3130-08 × 1000L SA-PT-08 × SE-PF-08  
If you wish to make a hose assembly using the above,  
cut the hose at the length of  $1000 - (39 + 44) = 917$ .



### B Selection of pusher die

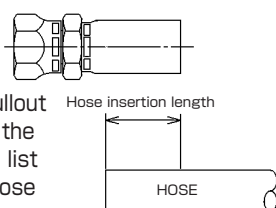
Part numbers are punched on pushers and dies.

The wrong pusher or die will cause oil leakage or pullout of the hose, or disable hose assembling, so always check the number.

### C Hose insertion length

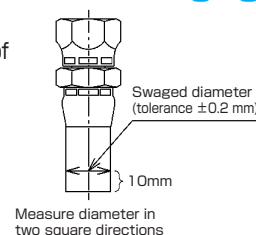
Hose insertion lengths are presented in the list below.

A shortage of hose insertion length will cause oil leakage or pullout of the hose. So mark the hose at the hose insertion length given in the list and insert the coupling into the hose to meet the marked position.



### D Socket outer diameter after swaging

The socket outer diameter after swaging is measured at the point of about 10 mm from the socket end. Please regularly check the finished size. If the size is not appropriate, consult us to avoid possible oil leakage or pullout of the hose.



## [Steel coupling]

Hose series	Hose size	Swage coupling part No.	A		B		C		D	
			Coupling deduction length (mm)	Pusher part No.	Die part No.	Hose insertion length (mm)	Socket outer diameter after swaging (mm)			
LB70	02	SSA-PT-02	26.0	PSA-02	SPLB70-02	12	8.5±0.1			
		SSE-PF-02	30.0	PSE-02-001						
		SSF-PF-02								
LB70 · LF70	04	SA-PT-04-14	32.0	PSA-04	SP14-04-07	19	12.4±0.1			
		SE-PF-04-14	31.0	PSE-14-04						
		SF-PF-04-14								
LB70 · LF70	06	SA-PT-06-14	33.0	PSA-06	SP14-06-07	22	15.6±0.1			
		SE-PF-06-14	32.0	PSE-14-06						
		SF-PF-06-14								
LB70 · LF70	08	SA-PT-08-14	37.0	PSA-08	SP14-08	24	19.5±0.2			
		SE-PF-08-14	37.0	PSE-14-08						
		SF-PF-08-14								
LB70	10	SA-PT-10-N30	40.0	PSA-10	SP07-10	40	24.4±0.2			
		SE-PF-10-N30	44.0	PSE-10						
		SF-PF-10-N30								
LB70	12	SA-PT-12	43.0	PSA-12	SP3-12	40	28.1±0.2			
		SE-PF-12	47.0	PSE-12						
		SF-PF-12								
LB70	16	SA-PT-16	48.0	PSA-16	SP07-16	52	34.2±0.2			
		SE-PF-16	53.0	PSE-16						
		SF-PF-16								
1000 · 1100 · 1400	04	SA-PT-04-14	32.0	PSA-04	SP14-04	19	12.7±0.2			
		SE-PF-04-14	31.0	PSE-14-04						
		SF-PF-04-14								
	06	SA-PT-06-14	33.0	PSA-06	SP14-06	22	15.9±0.2			
		SE-PF-06-14	32.0	PSE-14-06						
		SF-PF-06-14								
1000	08	SA-PT-08-14	37.0	PSA-08	SP14-08	24	19.5±0.2			
		SE-PF-08-14	37.0	PSE-14-08						
		SF-PF-08-14								
1100	08	SA-PT-08-14	37.0	PSA-08	SP10-08	24	19.9±0.2			
		SE-PF-08-14	37.0	PSE-14-08						
		SF-PF-08-14								
1500	03	SA-PT-03-14	30.0	PSA-04	SP14-03	14.5	10.5±0.1			
		SE-PF-03-14	29.0	PSE-14-04						
		SF-PF-03-14								

Hose series	Hose size	Swage coupling part No.	A	B		C	D		
			Coupling deduction length (mm)	Pusher part No.	Die part No.	Hose insertion length (mm)	Socket outer diameter after swaging (mm)		
3130 · 34PW	02	SSA-PT-02	26.0	PSA-02	SP3-02-001	12	9.2±0.2		
		SSE-PF-02	30.0	PSE-02-001					
		SSF-PF-02							
N3130 · 3700 3130 · 3000 · 34PW	03	SA-PT-03	32.0	PSA-04	SP3-03	26	12.4±0.2		
		SE-PF-03	33.0	PSE-03					
		SF-PF-03							
	04	SA-PT-04	33.0	PSA-04	SP3-04	28	14.4±0.2		
		SE-PF-04	36.0	PSE-04					
		SF-PF-04							
	05	SA-PT-05	35.0	PSA-06	SP3-05	28	16.0±0.2		
		SE-PF-05	38.0	PSE-05					
	06	SF-PF-05		35.0	PSA-06	SP3-06	33	17.6±0.2	
		SA-PT-06	PSE-06						
08	SA-PT-08	39.0	PSA-08	SP3-08	37	21.5±0.2			
	SE-PF-08	44.0	PSE-08						
	SF-PF-08								
	SA-PT-12	43.0	PSA-12				SP3-12	40	28.1±0.2
	SE-PF-12	47.0	PSE-12						
SF-PF-12									
N3130 · 3700 3130 · 3000	16	SA-PT-16	48.0	PSA-16	SP3-16	52	34.5±0.2		
		SE-PF-16	53.0	PSE-16					
		SF-PF-16							
N3000 · HT	04	SA-PT-04	33.0	PSA-04	SPN-04	28	14.6±0.2		
		SE-PF-04	36.0	PSE-04					
		SF-PF-04							
	06	SA-PT-06-N30	35.0	PSA-06	SPN-06	33	18.9±0.2		
		SE-PF-06-N30	39.0	PSE-06					
	08	SF-PF-06-N30		39.0	PSA-08	SPN-08	37	22.7±0.2	
		SA-PT-08-N30	PSE-08						
10	SA-PT-10-N30	40.0	PSA-10	SPN-10	40	26.2±0.2			
	SE-PF-10-N30	44.0	PSE-10						
	SF-PF-10-N30								
3R80	03	SA-PT-03-3R	35.0	PSA-04	SPH-03	23	13.5±0.2		
		SE-PF-03-3R	36.0	PSE-03					
		SF-PF-03-3R							
	04	SA-PT-04-3R	33.0	PSA-04	SPH-04	28	17.2±0.2		
		SE-PF-04-3R	36.0	PSE-04					
	06	SF-PF-04-3R		35.0	PSA-06	SPH-06	33	20.1±0.2	
		SA-PT-06-N30	PSE-06						
08	SA-PT-08-N30	39.0	PSA-08	SPH-08	37	23.0±0.2			
	SE-PF-08-N30	44.0	PSE-08						
SF-PF-08-N30	12		SA-PT-12-3R	43.0	PSA-12	SPH-12	40	29.5±0.2	
		SE-PF-12-3R	47.0	PSE-12					
3R80 · 34PW	16	SF-PF-12-3R		48.0	PSA-16	SPH-16	52	37.8±0.2	
		SA-PT-16-3R	PSE-16						
SE-PF-16-3R	53.0	PSE-16							
SF-PF-16-3R									

Hydraulic Hose

Airless-painting Hose

Clean Hose

Adapter

Hose Guard  
Parts, Specially-  
Treated PartsAssembling  
Machine,  
Jig, ToolHose  
Assembling  
MethodTechnical  
DocumentReference  
Document

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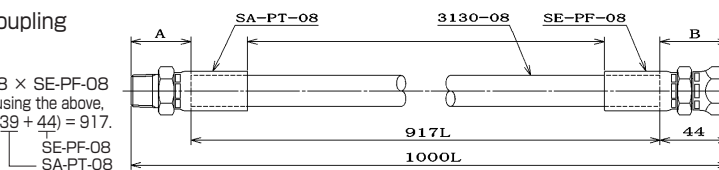
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### B Selection of pusher die

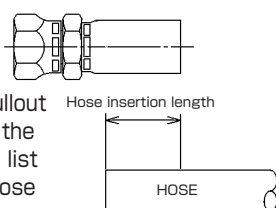
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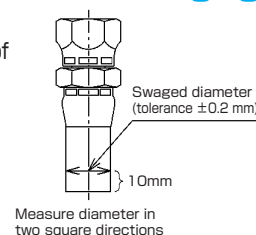
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### D Socket outer diameter after swaging

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## [Stainless steel coupling]

Hose series	Hose size	Swage coupling part No.	A Coupling deduction length (mm)	Pusher part No.	B Die part No.		C Hose insertion length (mm)	D Socket outer diameter after swaging (mm)
					First	Second		
1000 · 1100 · 1400	04	SA-PT-04-14-S	32.0	PSA-04	SPH-03	SP14-04	19	12.7±0.2
		SE-PF-04-14-S	31.0	PSE-14-04				
		SF-PF-04-14-S						
	06	SA-PT-06-14-S	33.0	PSA-06	SP3-05-1-ST	SP14-06		
		SE-PF-06-14-S	32.0	PSE-14-06				
		SF-PF-06-14-S						
1000	08	SA-PT-08-14-S	37.0	PSA-08	SPH-06-1-ST	SP14-08	24	19.5±0.2
		SE-PF-08-14-S	37.0	PSE-14-08				
		SF-PF-08-14-S						
1100	08	SA-PT-08-14-S	37.0	PSA-08	SPH-06-1-ST	SP10-08	24	19.9±0.2
		SE-PF-08-14-S	37.0	PSE-14-08				
		SF-PF-08-14-S						
3130 · 34PW	02	SSA-PT-02-S	26.0	PSA-02	SP3-02-001	—	12	9.2±0.2
		SSE-PF-02-S	30.0	PSE-02-001				
		SSF-PF-02-S						
N3130 · 3700 3130 · 3000	03	SA-PT-03-S	32.0	PSA-04	SP3-03-1-ST	SP3-03	24	12.4±0.2
		SE-PF-03-S	33.0	PSE-03				
N3130 · 3700	04	SA-PT-04-S	33.0	PSA-04	SP3-04-1-ST	KM-04	28	14.0±0.2
		SE-PF-04-S	36.0	PSE-04				
		SF-PF-04-S						
3130 · 3000 · 34PW	04	SA-PT-04-S	33.0	PSA-04	SP3-04-1-ST	SP3-04	28	14.4±0.2
		SE-PF-04-S	36.0	PSE-04				
		SF-PF-04-S						
N3130 · 3700 3130 · 3000 · 34PW	06	SA-PT-06-S	35.0	PSA-06	SP3-06-1-ST	SP3-06	33	17.6±0.2
		SE-PF-06-S	39.0	PSE-06				
		SF-PF-06-S						
	08	SA-PT-08-S	39.0	PSA-08	SP3-08-1-ST	SP3-08		
		SE-PF-08-S	44.0	PSE-08				
		SF-PF-08-S						
N3130 · 3700 3130 · 3000	12	SA-PT-12-S	43.0	PSA-12	SP3-12-1-ST	SP3-12	40	28.1±0.2
		SE-PF-12-S	47.0	PSE-12				
		SF-PF-12-S						
	16	SA-PT-16-S	48.0	PSA-16	SP3-16-1-ST	SP3-16		
		SE-PF-16-S	53.0	PSE-16				
		SF-PF-16-S						

Hose series	Hose size	Swage coupling part No.	A		B		C	D
			Coupling deduction length (mm)	Pusher part No.	Die part No.			
					First	Second	Hose insertion length (mm)	Socket outer diameter after swaging (mm)
N3000 · HT	04	SA-PT-04-S	33	PSA-04	SP3-04-1-ST	SPN-04	28	14.6±0.2
		SE-PF-04-S	35	PSE-04				
	06	SA-PT-06-N30-S	34	PSA-06	SPH-06-1-ST	SPN-06	33	18.9±0.2
		SE-PF-06-N30-S	38	PSE-06				
	08	SA-PT-08-N30-S	39	PSA-08	SPH-08-1-ST	SPN-08	37	22.7±0.2
		SE-PF-08-N30-S	43	PSE-08				
3R80	04	SA-PT-04-3R-S	33	PSA-04	SPH-04-1-ST	SPH-04	28	17.2±0.2
		SE-PF-04-3R-S	35	PSE-04				
	06	SA-PT-06-N30-S	34	PSA-06	SPH-06-1-ST	SPH-06	33	20.1±0.2
		SE-PF-06-N30-S	38	PSE-06				
	08	SA-PT-08-N30-S	39	PSA-08	SPH-08-1-ST	SPH-08	37	23.0±0.2
		SE-PF-08-N30-S	43	PSE-08				
3R80 · 34PW	12	SE-PF-12-3R-S	47	PSE-12	SPH-12-1-ST	SPH-12	40	29.5±0.2
	16	SE-PF-16-3R-S	53	PSE-16	SPH-16-1-ST	SPH-16	52	37.8±0.2
34PW	04	SE-G-04-PW	36	PSE-04	SP3-04-VC	—	28	14.4±0.2
	06	SE-G-06-PW	39	PSE-06	SP3-06-VC	—	33	17.6±0.2
	08	SE-G-08-PW	44	PSE-08	SP3-08-VC	—	37	21.5±0.2
	12	SE-G-12-PW	47	PSE-12	SPH-12-1-ST	SPH-12-VC	40	29.5±0.2
	16	SE-G-16-PW	53	PSE-16	SPH-16-1-ST	SPH-16-37VC	52	37.0±0.2
	04	SE-G-04-PWL	31	PSE-04-PWL	SPP-04-VC	—	11	14.7±0.2
	06	SE-G-06-PWL	32	PSE-06-PWL	SPP-06-VC	—	11	18.0±0.2
	08	SE-G-08-PWL	39	PSE-08-PWL	SPP-08-VC	—	14	21.8±0.2
	12	SE-G-12-PWL	42	PSE-12-PWL	SPP-12-VC	—	21	29.6±0.2
	16	SE-G-16-PWL	45	PSE-16-PWL	SPP-16-VC	—	29	37.2±0.2

Hydraulic Hose

Airless-painting Hose

Clean Hose

Adapter

Hose Guard Parts, Specially-Treated Parts

Assembling Machine, Jig, Tool

Hose Assembling Method

Technical Document

Reference Document