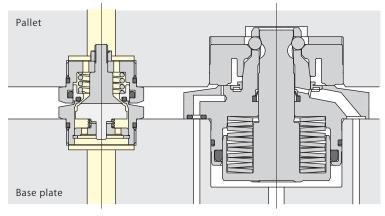
Air & coolant coupler with large orifice area and capability to accommodate large flow rates.

Pal coupler socket Blow air & coolant model WVP-3DSN

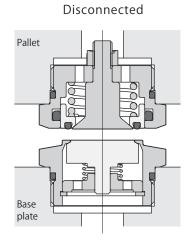


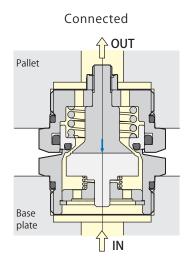


Pal coupler plug Blow air & coolant model WVP-3DPN-



Coupling at same time with pallet clamp





- Height of coupler is maintained low in order to reduce thickness of pallet.
- Disconnection and connection of coupler is performed by lift stroke of pallet clamp and there is no need for connecting mechanism or stopper. No reactive force is generated when pallet is set, since coupler is not connected. (Refer to page **→**5)
- The couplers are selectable according to the size of pallet clamp and no spacer block is required.
- Large orifice area allows to supply large volume of coolant or blow air.

Specifications

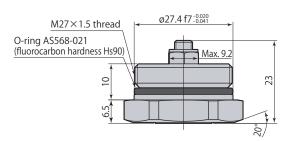
Operating temperature	0–70 ℃					
neactive force	Max. spring force for no pressure 60 N					
Reactive force*	380 N per 1 MPa f	luid pressure				
Allowable inclination	0.3° or less	Connect/disconnect : Incapable under pressure				
Allowable eccentricity	±0.5 mm	Air & coolant				
Fluid used	Air & coolant					
Orifice area	29.0 mm ²					
Proof pressure	1.5 MPa					
Pressure range	0–1 MPa	Circuit symbol				

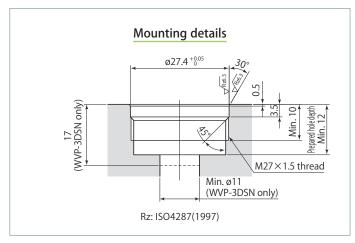
- *: Reactive force (N) = Fluid pressure (MPa) \times 380+60
- Refer to pages →84, 85 for details.

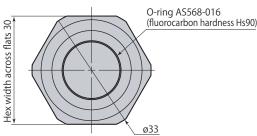
Dimensions

WVP-3DSN

Blow air & coolant socket
Recommended tightening torque: 30 N·m

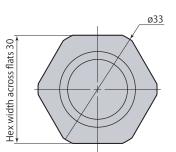


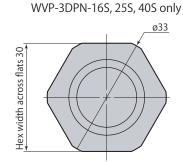


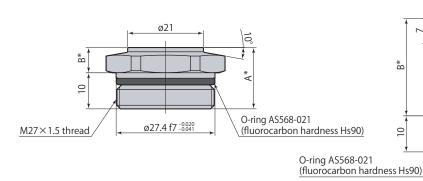


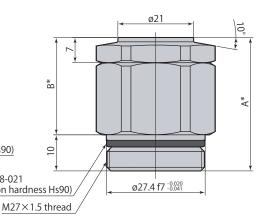
- (fluorocarbon hardness Hs90) Fluid leaks from the tip of coupler when supplying it under disconnected state.
 - Stop supplying fluid during disconnection and connection operations. Disconnecting or connecting coupler while fluid is flowing results in the leakage.
 - Coupler has no built in filter. Ensure that foreign substances on connecting surfaces are removed by blowing air before connecting to prevent intrusion of foreign substances into piping.

WVP-3DPN-10A, 16F, 25F, 40F









*: Dimension varies according to the size and model no of the coupler.

WVP-3DPN-□□ Blow air & coolant plug Recommended tightening torque: 30 N·m

Coupler	Socket		WVP-3DSN									
	Plug	WVP-3DPN-03T WVP-3DPN-06T WVP-3DPN-10T WVP-3DPN-16T WVP-3DPN-25T WVP-3										
А		16	17	19	22	26	32					
В		6	7	9	12	16	22					
H (distance to p	pallets)	11.5	12.5	14.5 17.5 21.5 27.5		27.5						
Socket		70 g										
Coupler mass	Plug	57 g	60 g	67 g	77 g	90 g	111 g					

Applicable pallet clamp / locate ring

Pallet clamp	CPC-, CPH-	□03H	□06H	□10H	_	□16H	_	□25H	_	□40H	-
Air pallet clamp	CPY-	□02Н, □03Н	_	_	□04H	_	□06H	_	□10H	-	□06H
Locate ring	CDC	□03T, D	□06T, D	□10T, D	□03T, D	□16T, D	□06T, D	□25T, D	□10T, D	□40T, D	□06F
Locate ring shim	CPS-	S03T, D	S06T, D	S10T, D	S03T, D	S16T, D	S06T, D	S25T, D	S10T, D	S40T, D	-

mm WVP-3DSN Socket Coupler WVP-3DPN-06F WVP-3DPN-10F WVP-3DPN-10A WVP-3DPN-16F WVP-3DPN-25F WVP-3DPN-40F Plug WVP-3DPN-03F 25.5 27 38 37 44.5 55.5 В 15.5 17 21 28 27 34.5 45.5 H (distance to pallets) 21 22.5 26.5 33.5 32.5 40 51 70 g Socket Coupler mass Plug 89 g 94 g 108 g 132 g 128 g 157 g 197 g

Applicable pallet clamp / locate ring

Pallet clamp	CPC-, CPH-	□03H	□06H	□03H	□10H	_	□16H	□25H	□40H
Air pallet clamp	CPY-	□02H, □03H	_	□02Н, □03Н	_	□10H	_	_	-
Locate ring	CPS-	□03F	□06F	□03F	□10F	□10F	□16F	□25F	□40F
Locate ring shim	CP3-	-	-	S03F	-	-	-	-	-

mm

Coupler	Socket		WVP-3DSN									
	Plug	WVP-3DPN-03B	WVP-3DPN-06S	WVP-3DPN-25S	WVP-3DPN-40S							
A		30	28.5	33.5	33	40	47.5	58.5				
В		20	18.5	23.5	23	30	37.5	48.5				
H (distance to pallets)		25.5	24	29	28.5	35.5	43	54				
Coupler mass	Socket				70 g							
Coupler mass	Plug	104 g	99 g	116 g	114 g	139 g	168 g	208 g				

Applicable pallet clamp / locate ring

Pallet clamp	CPC-, CPH-	_	□06H	_	_	□10H	□16H	_	□25H	□40H
Air pallet clamp	CPY-	□04H	_	□04H	□06H	_	_	□10H	_	_
Locate ring	CPS-	□03F	□06F	□03F	□06F	□10F	□16F	□10F	□25F	□40F
Locate ring shim	CP3-	S03F	S06F	-	S06F	S10F	S16F	S10F	S25F	S40F

indicates made to order.

Caution in use

- The distance between the base and the pallet varies when the pallet clamp is mounted with the shim (model CPC-S, CPH-S, CPY-S). Install the Pal coupler to have the dimension $H_{-0.5}^{+0.05}$ set as shown in the above table when it is connected.
- Former pallet clamp (model CPC-□□F, CPH-□□F) cannot be used in combination with the couplers, as lift stroke is different.
- Ask Pascal in case it is used in combination with Pal coupling model CPM.
- Provide the stopper and the guide as shown in the diagram to protect coupler from damage unless it is used in combination with pallet clamp. Do not use a coupler as a guide or stopper when connecting. It may cause the damage. Install the stopper to have the dimension $H^{+0.05}_{-0.5}$ set as shown in the above table (See diagram on the right). Observe allowable eccentricity and inclination value when installing the guide. (Refer to **page** →81 for details on allowable eccentricity and inclination value.)

Mounting sample without pallet clamp

