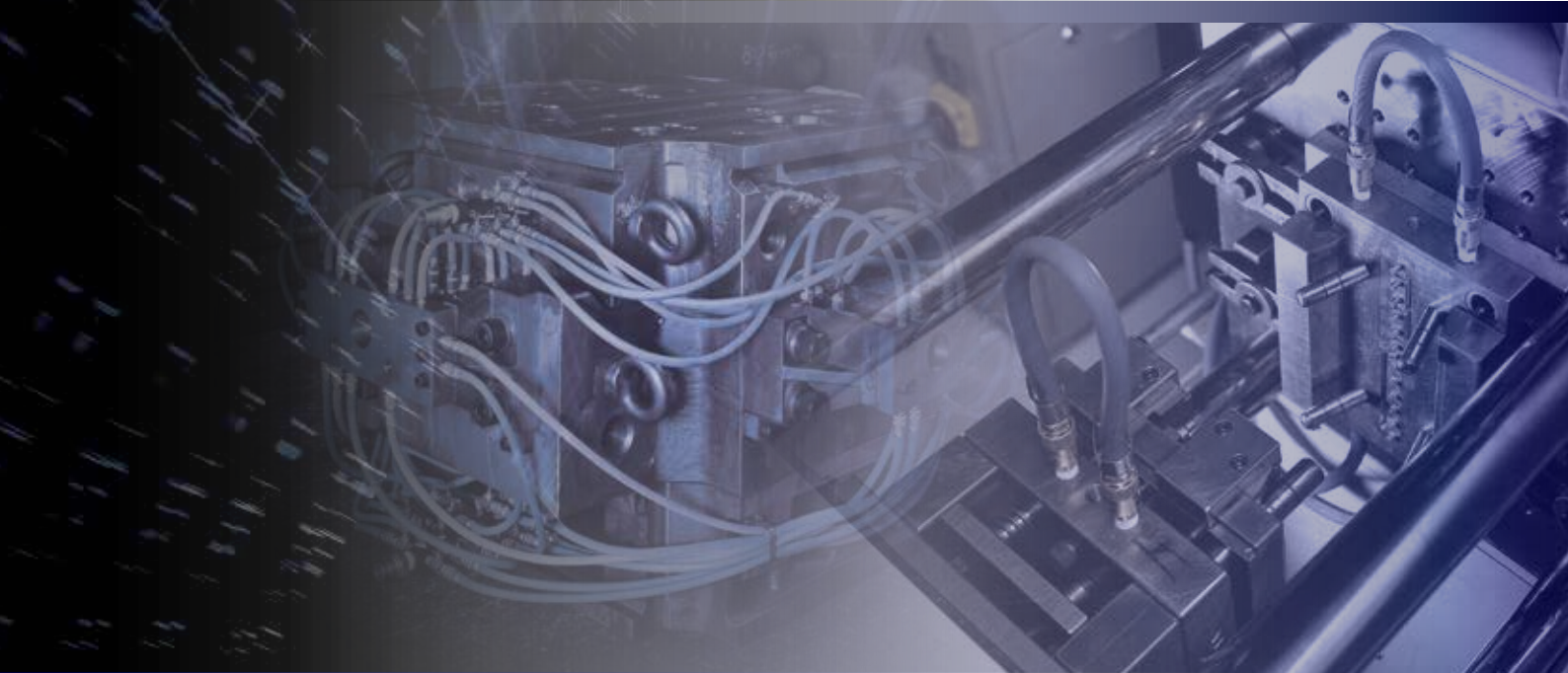


# **CUPLA & TOOLS FOR DIE CASTING**

## CATALOG



# CUPLA QUICK CONNECT COUPLINGS

## CONTENTS

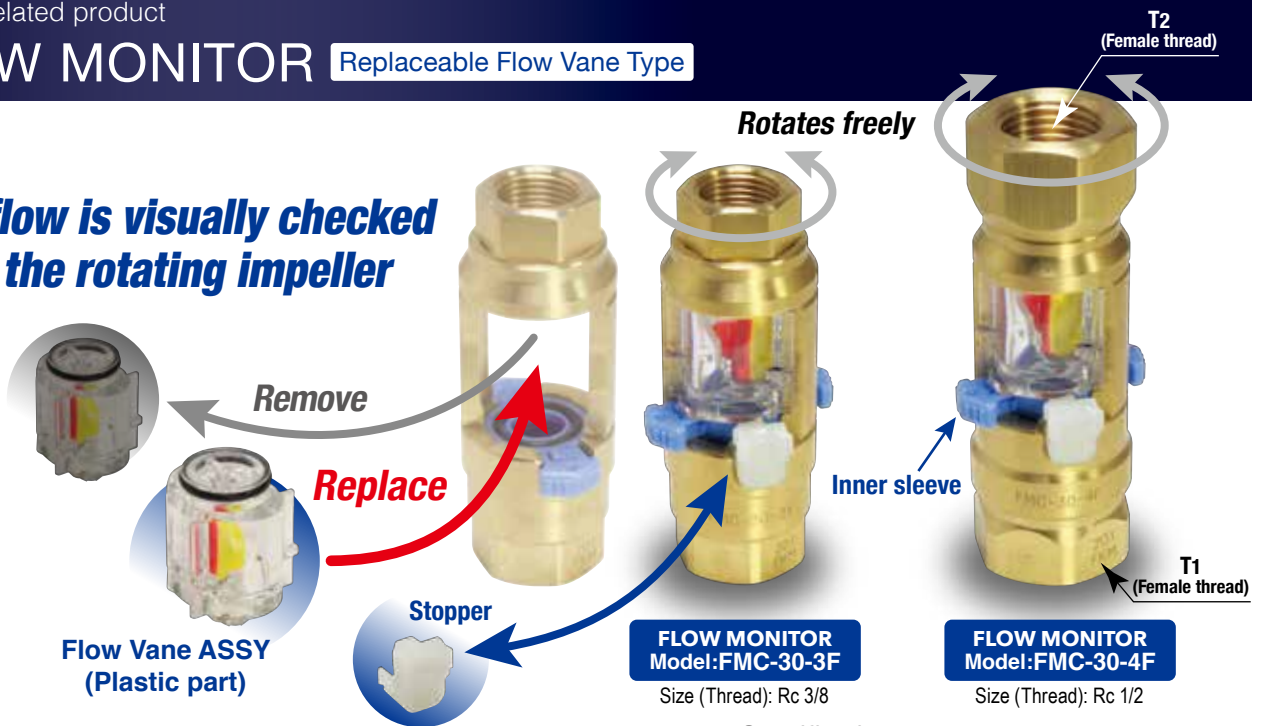
- P-01 FLOW MONITOR Replaceable Flow Vane Type
- P-03 HSP CUPLA DC Type
- P-03 PURGE ADAPTER
- P-04 350 CUPLA
- P-04 FLAT FACE CUPLA F35 Type
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- P-07 TSP CUPLA Socket with Ball Valve
- P-08 CUPLA TSW Type For Spot Cooling
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**Notice** Working pressure: The normal allowable fluid pressure under continuous use. Continuously exceeding the working pressure may cause leakage or damage.

CUPLA related product

## FLOW MONITOR Replaceable Flow Vane Type

**The flow is visually checked with the rotating impeller**



### The flow of cooling water can be checked at a glance.

- Fluid flow from low flow rate (2 L/min) can be visually checked with the rotating two-colored impeller.
- Flow Vane ASSY can be replaced without removing it from the piping (both models).
- The stopper prevents unintended removal of the plastic parts.
- The installation and replacement is easy since the screw part of T2 side rotates freely to the left and right.

<b>Working pressure</b>	<b>Applicable fluid</b>
1.0 	
1.0 MPa	Water

Note: This product cannot be used for gas. If oil is used, the durability may reduce depending on the compatibility of the oil or additive with the plastic part. Please use the FLOW MONITOR after thorough evaluation.

### Specifications

Model	FMC-30-3F	FMC-30-4F
Size (Thread)	Rc 3/8	Rc 1/2
Body material	Brass	
Flow Vane ASSY material (Plastic part)	Outer cylinder: Polycarbonate	
	Impeller: Polycarbonate	
	Inner sleeve, Stopper: Polyamide	
Working pressure	1.0 MPa, 10 kgf/cm <sup>2</sup> , 10 bar, 145 PSI	
Working flow range	2 to 20 L/min	
Seal material (Mark)	Fluoro rubber (FKM)	
Working temperature range	+10°C to +80°C	
Mass	167 g	256 g

*For core driving cylinders when clamping and opening of molds.*

**HSP CUPLA DC Type**  
 Semi-standard



*Strengthened type of HSP CUPLA.*

**350 CUPLA**

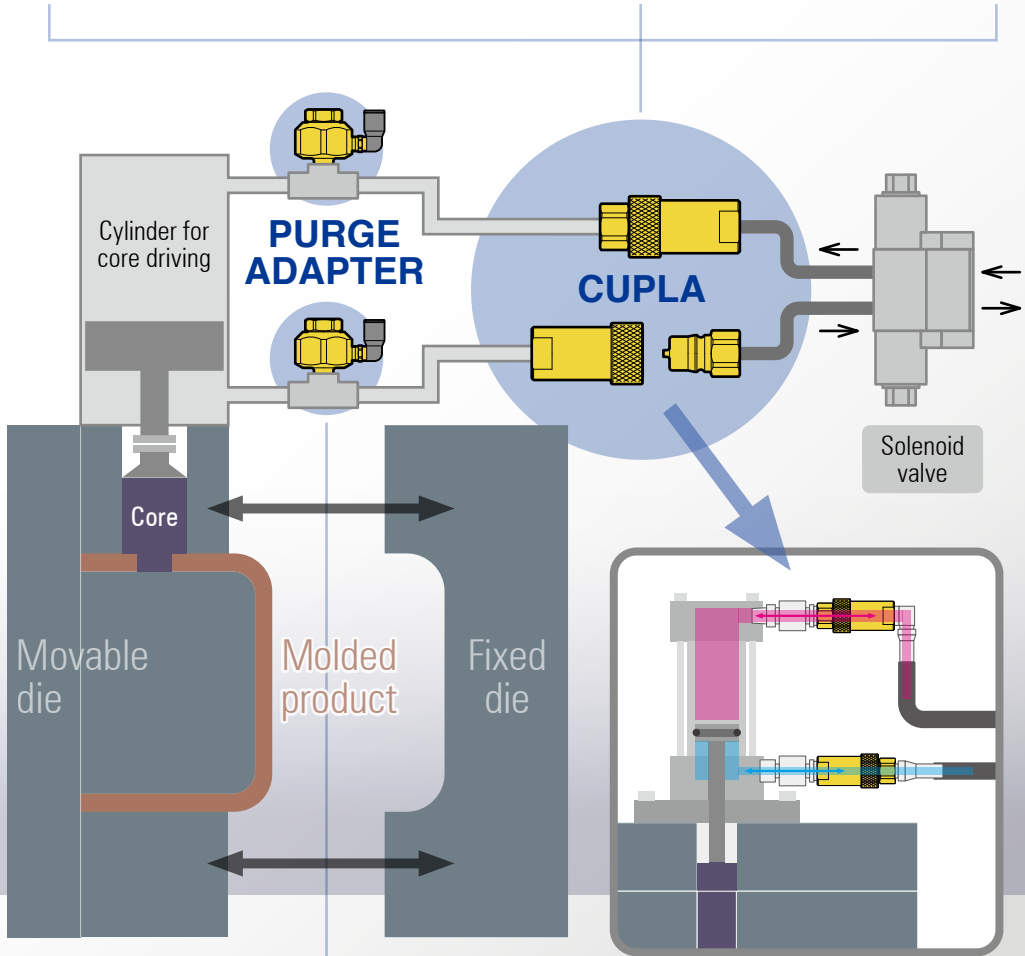


*"Airless valve shut-off design" reduces both air admixture and liquid spillage.*

**FLAT FACE CUPLA**  
 F35 Type



**FF Type**  
*For high pressure. Flat contact face design minimizes air admixture and liquid spillage.*



**For hydraulic driving**  
 Example of piping

**PURGE ADAPTER**



*Residual pressure removal for hydraulic circuits.*



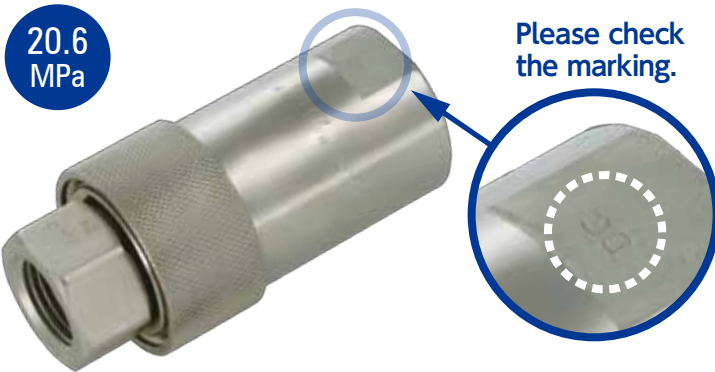


*"Electroless nickel phosphorus plating" which is not soluble to flame-retardant "water glycol type hydraulic fluid" is entirely adopted.*

For hydraulic driving

Semi-standard

# HSP CUPLA DC Type



### Strengthened type of HSP CUPLA.

- Valve material with excellent impact resistance is adopted. Ideal for die-casting machines with large pressure fluctuations.
- HSP CUPLA and HSP CUPLA DC Type are interchangeable with the same size.

Working pressure	Valve structure	Applicable fluid
20.6 MPa	Two-way shut-off	Hydraulic oil

### Specifications

Name		HSP CUPLA DC Type
Body material		Special steel (Nickel plated)
Size (Thread)		1/4", 3/8", 1/2", 3/4", 1"
Working pressure	MPa	20.6
	kgf/cm <sup>2</sup>	210
	bar	206
	PSI	2990
Seal material		Nitrile rubber
Mark		NBR
Working temperature range		-20°C to +80°C

For hydraulic driving

# PURGE ADAPTER

CUPLA accessories



### Purge Adapter for hydraulic lines.

- Attach to hydraulic lines to purge residual pressure effectively.
- One push of the "Residual pressure purge button" drains oil from "Drain removal port", and the residual pressure is removed.

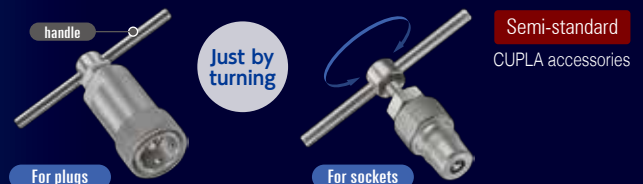
Working pressure	Applicable fluid
35.0 MPa	Hydraulic oil

### Specifications

Model	PAD-2	PAD-3FM	PAD-4FM	PAD-6FM	PAD-8FM
Body material	Steel (Nickel plated)				
Application	R 1/4	R 3/8 × Rc 3/8	R 1/2 × Rc 1/2	R 3/4 × Rc 3/4	R 1 × Rc 1
Working pressure	35.0 MPa, 357 kgf/cm <sup>2</sup> , 350 bar, 5080 PSI				
Seal material	Nitrile rubber				
Mark	NBR				
Working temperature range	-5°C to +80°C				

# Residual Pressure Release Jig ZN series

For HSP CUPLA DC Type, SP CUPLA Type A



*Sleeve stopper mechanism prevents accidental disconnection.*

For hydraulic driving

## 350 CUPLA

34.5 MPa



Equipped with sleeve stopper mechanism.

For hydraulic driving

## FLAT FACE CUPLA

35.0 MPa



Equipped with sleeve stopper mechanism.

Push to connect operation



Equipped with sleeve stopper mechanism.

### F35 Type

FLAT FACE CUPLA

### FF Type

FLAT FACE CUPLA

**"Airless valve shut-off design" reduces both air admixture and liquid spillage.**

- Ideal for hydraulic lines with large pressure fluctuations.
- Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out when disconnected. Easy to handle.

<b>Working pressure</b> 34.5 MPa	<b>Valve structure</b> Two-way shut-off (Non-spill)	<b>Applicable fluid</b> Hydraulic oil
-------------------------------------	--	--

**For high pressure. Flat contact face design minimizes air admixture and liquid spillage.**

- Minimizes air admixture during connection to keep the possible malfunction of equipment at minimum level.
- Easy to clean dust and foreign matters adhered on the surface of coupling.
- The special design reduces pressure loss considerably. Both socket and plug have built-in automatic shut-off valves that prevent fluid spill out on disconnection.

<b>Working pressure</b> 35.0 MPa	<b>Valve structure</b> Two-way shut-off (Non-spill)	<b>Applicable fluid</b> Hydraulic oil
-------------------------------------	--	--

**1.5 to 2 times flow rate of FLAT FACE CUPLA F35 type.**

\* Compared with Nitto Kohki's 35 MPa CUPLA.

- Best suited for hydraulic lines with drastic high pressure pulsation.

<b>Working pressure</b> 35.0 MPa	<b>Valve structure</b> Two-way shut-off (Non-spill)	<b>Applicable fluid</b> Hydraulic oil
-------------------------------------	--	--



### Specifications

Name	350 CUPLA	FLAT FACE CUPLA F35	FLAT FACE CUPLA FF
Body material	Special steel (Nickel plated)		
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2"	1/4", 3/8", 1/2", 3/4", 1"	3/8", 1/2", 3/4", 1"
Working pressure	MPa	34.5	35.0
	kgf/cm <sup>2</sup>	352	357
	bar	345	350
	PSI	5000	5080
Seal material	Fluoro rubber		Nitrile rubber
Mark	FKM		NBR
Working temperature range	-20°C to +180°C		-20°C to +80°C
Remarks	Standard material	Made-to-order item	Standard material

*To achieve high-cycle cooling and efficient exchange of die.*

**TSP CUPLA**



*Both plug and socket with valveless structure drastically saves pressure loss.*

**TSP CUPLA Socket with Ball Valve**

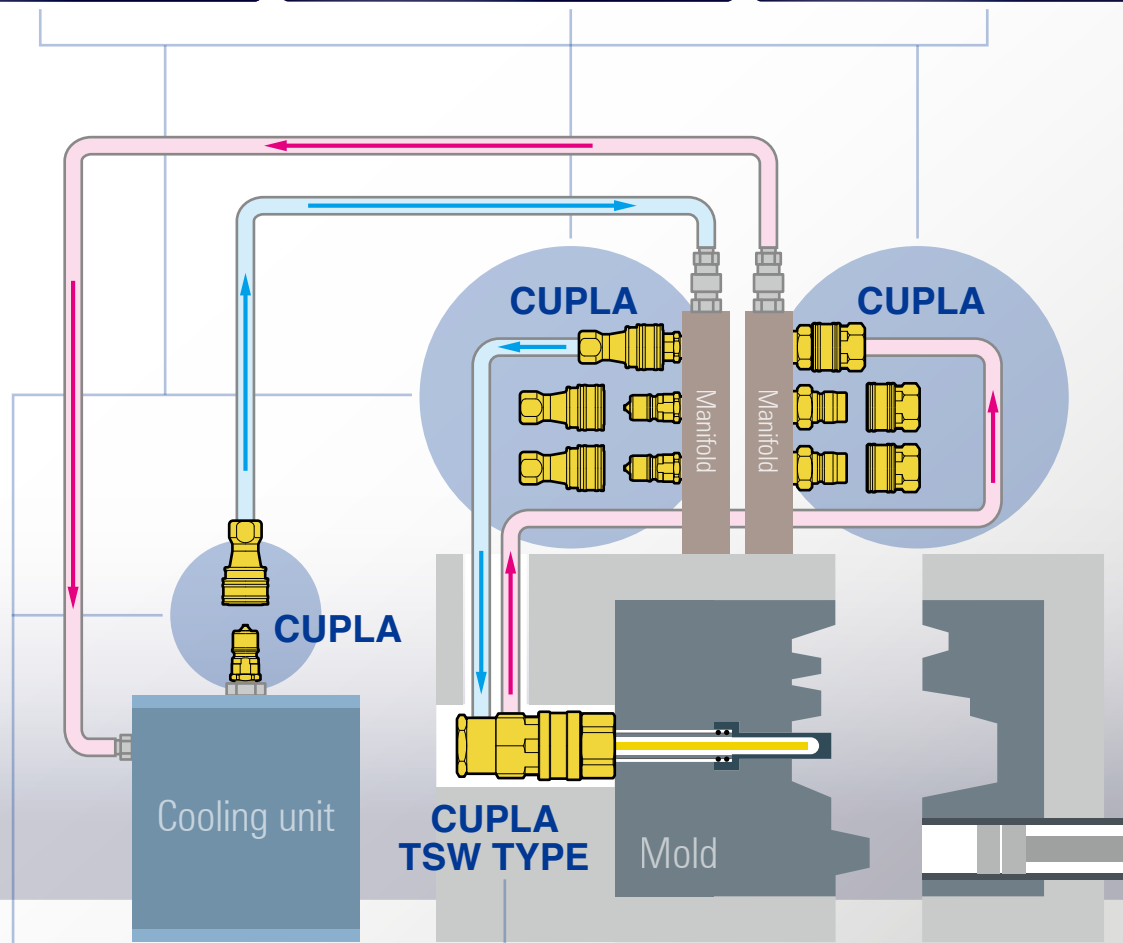


*One-piece design of TSP Cupla socket and ball valve.*

**SP CUPLA Type A**



*Valves in both socket and plug prevent fluid spill out on disconnection.*



**For cooling**  
Example of piping

**ZEROSPILL CUPLA**



*Unique seal design reduces both liquid spillage and air ingress.*

**CUPLA TSW Type FOR SPOT COOLING**

Made-to-order item



*Ideal for improving the efficiency of setup change and repair work of die-casting molds.*

For cooling

## SP CUPLA Type A

For medium pressure



### Self-aligned valve design provides better seal

The design of the valve head makes smooth self-aligned return to its original position when socket and plug are disconnected. This mechanism enhances safety sealing of individual socket or plug when disconnected (1 to 8 SP-A Type).



### Valves in both socket and plug prevent fluid spill out on disconnection.

- Plugs with male thread end are also available.
- Steel couplings are nickel plated.

**Working pressure**  
1.5 to 7.5  
1.5 to 7.5 MPa

**Valve structure**  
  
Two-way shut-off

**Applicable fluid**

Water Hydraulic oil Chemicals Air Gas Steam

Note: Depending on the temperature of steam / hot water, the heat may damage seal materials.

For cooling

## ZEROSPILL CUPLA

For medium pressure



### Minimal spillage valve structure

Unique minimal spillage structure enables maximum 96% less spillage (compared with SP Cupla Type A)



\*blue colored water is used to show volume of spillage clearly.

### Unique seal design reduces both liquid spillage and air ingress.

- Valve design offers smooth zero-friction movement.
- Push to connect design.
- Automatic shut-off valves in both socket and plug prevent fluid spill out on disconnection.

**Working pressure**  
3.5  
3.5 MPa

**Valve structure**  
  
Two-way shut-off (Non-spill)

**Applicable fluid**

Water Hydraulic oil Chemicals Air Gas

## Specifications

Name	SP CUPLA Type A *1										ZEROSPILL CUPLA *2	
	Brass					Stainless steel (SUS304), Steel (Nickel plated)					Brass	Stainless steel (SUS304)
Body material	Brass					Stainless steel (SUS304), Steel (Nickel plated)					Brass	Stainless steel (SUS304)
Size (Thread)	1/8", 1/4", 3/8"	1/2", 3/4", 1"	1 1/4", 1 1/2"	2"		1/8", 1/4", 3/8"	1/2", 3/4", 1"	1 1/4", 1 1/2"	2"		1/4", 3/8", 1/2", 3/4", 1"	
Working pressure	MPa	5.0	3.0	2.0	1.5	7.5	4.5	3.0	2.0		3.5	
	kgf/cm <sup>2</sup>	51	31	20	15	76	46	31	20		36	
	bar	50	30	20	15	75	45	30	20		35	
	PSI	725	435	290	218	1090	653	435	290		508	
Seal material, Mark, Working temperature range	Nitrile rubber, NBR, -20°C to +80°C											
	Fluoro rubber, FKM, -20°C to +180°C											
	Ethylene-propylene rubber, EPDM, -40°C to +150°C											

\*1: Plugs with male thread end mounting nitrile rubber or ethylene-propylene rubber are made-to-order items. Seal material available for steel body is nitrile and fluoro rubber.

\*2: Applicable fluids depend on the body material and seal material. Acceptable working temperature range depends on operating conditions.



For cooling

## TSP CUPLA

For medium pressure



**Suitable for connection to braided hoses.**

- No hose clamp required.
- No additional tightening required.

**Two piece design**

- Please use braided hoses available in the market.
- Applicable fluids for braided hose connection type depend upon the specifications of braided hoses to be used.

For cooling

## TSP CUPLA Socket with Ball Valve

For low pressure



**Ball Valve Shut**

When disconnected

**Ball Valve Open**

When connected

**Equipped with sleeve stopper mechanism.**

**Both plug and socket with valveless structure drastically saves pressure loss.**

**One-piece design of TSP CUPLA socket and ball valve.**

- Sleeve stopper mechanism prevent accidental disconnection during connection. (when the valve is open.)
- Socket valve open and shut off while socket and plug are connected.
- Ball valve design provides for high flow rate.

**Working pressure**  
1.5 to 7.5 MPa

**Valve structure**  
Straight through

**Applicable fluid**

Water, Hydraulic oil, Chemicals, Air, Gas, Steam

**Working pressure**  
1.0 MPa

**Valve structure**  
One-way shut-off

**Applicable fluid**  
Water, Hydraulic oil, Air, Gas

Note: Depending on the temperature of steam / hot water, the heat may damage seal materials.

*Suitable for high viscosity fluids such as grease.*

### Specifications

Name		TSP CUPLA *1								TSP CUPLA Socket With Ball Valve	
Body material		Brass				Stainless steel (SUS304), Steel (Nickel plated)				Brass	
Size (Thread)		1/8", 1/4" 3/8", 1/2"	3/4" 1"	1 1/4" 1 1/2"	2"	1/8", 1/4" 3/8", 1/2"	3/4" 1"	1 1/4" 1 1/2"	2"	1/4", 3/8", 1/2", 3/4", 1"	
Working pressure		MPa	5.0	3.0	2.0	1.5	7.5	4.5	3.0	2.0	1.0
		kgf/cm <sup>2</sup>	51	31	20	15	76	46	31	20	10
		bar	50	30	20	15	75	45	30	20	10
		PSI	725	435	290	218	1090	653	435	290	145
Seal material, Mark, Working temperature range		Fluoro rubber, FKM, -20°C to +180°C								Cupla part: Fluoro rubber, FKM, -5°C to +120°C	
		Nitrile rubber, NBR, -20°C to +80°C								Ball valve part: Fluoropolymer resin, -5°C to +120°C	
		Ethylene-propylene rubber, EPDM, -40°C to +150°C								-	

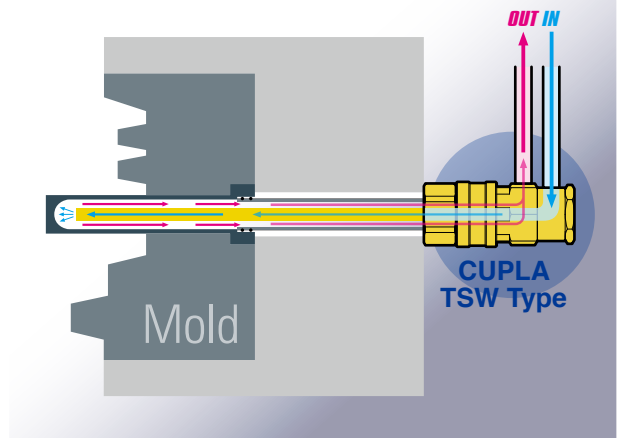
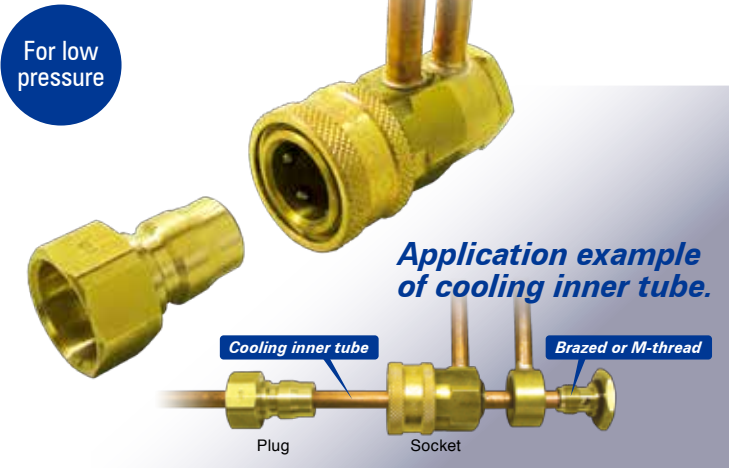
\*1: SUS316 is available as option. Working pressure, and working temperature range of TSP Cupla for braided hoses depend upon the specifications of braided hoses to be used. Seal material available for braided hoses is nitrile rubber only. Seal material available for steel body is nitrile rubber only.



For cooling

## CUPLA TSW Type For Spot Cooling

Made-to-order item



### Ideal for improving the efficiency of setup change and repair work of die-casting molds.

- Connecting / disconnecting of piping is "one-touch", contributing to reduction changeover and repair time.
- The cooling tube (plug side) and the hose attachment part (socket side) can be separated. Reuse of the hose side is possible.

<b>Working pressure</b>	<b>Valve structure</b>	<b>Applicable fluid</b>	
0.5			
0.5 MPa	Straight through	Water	Hydraulic oil

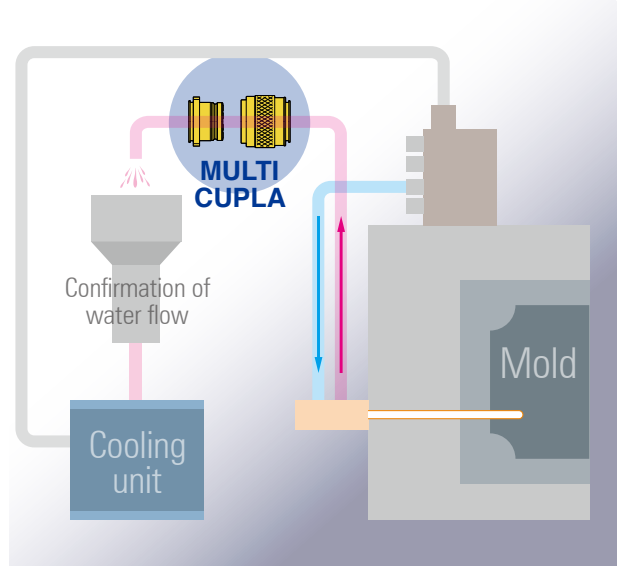
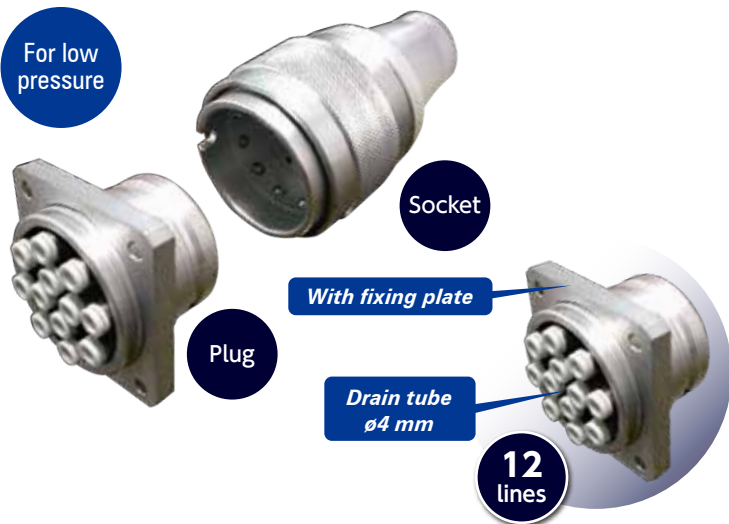
### Specifications

Name	CUPLA TSW Type
Body material	Brass
Applicable fluid	Water, Hot water
Working pressure	0.5 MPa, 5 kgf/cm <sup>2</sup> , 5 bar, 72.5 PSI
Seal material	Fluoro rubber
Mark	FKM
Working temperature range	0°C to +150°C

For cooling

## MULTI CUPLA

Made-to-order item



### Ideal for shortening mold setup time.

- Connect and disconnect 12 lines of drainage tubes for local cooling simultaneously. (ø4 mm tube)
- Significant reduction in setup time when exchanging mold.
- The plug side has a plate to fix to the equipment.
- Main body material is aluminum alloy (hard alumite). Socket is lightweight, 250 g.
- By adopting end-face seal, enhanced operability with low connection resistance when connected.

For consultation with other than the specifications, please contact Nitto Kohki.

<b>Working pressure</b>	<b>Valve structure</b>	<b>Applicable fluid</b>	
1.0			
1.0 MPa	Straight through	Water	Hydraulic oil

### Specifications

Name	MULTI CUPLA
Body material	Aluminum alloy (Hard alumite)
Size (Thread)	M5 (Tube fitting optional)
Working pressure	1.0 MPa, 10 kgf/cm <sup>2</sup> , 10 bar, 145 PSI
Seal material	Fluoro rubber
Mark	FKM
Working temperature range	+80°C

# POWER TOOLS

SANDING  
GRINDING / FILING

## CONTENTS

Pneumatic type only

- P-10 SUPER HAND
- P-10 SUPER HAND LIGHT
- P-11 AIR SONIC
- P-12 BELTON
- P-12 BABY BELTON
- P-13 COMPACT MULTI SANDER
- P-13 BURR CUTTER

**Notice** Air pressure at the inlet of the tool must not exceed 0.6 MPa (6 kgf/cm<sup>2</sup>).



Portable precision finishing file

# SUPER HAND

*Fast, efficient filing, sanding and deburring tools.*

- Eliminates time consuming manual hand-filing operations.
- Ideal for industrial production filing applications on steel, aluminum, brass, wood and other materials.
- Unique and compact design delivers reduced vibration performance while reducing operator fatigue.
- Interchangeable files.
- Rear exhaust system.

**Model SH-100A**

Rugged construction for reliable performance.



**Model ASH-900**

Weight reduced by half for comfortable operation over long period of time.



Specifications

Model	SH-100A	ASH-900
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI	
Air consumption (No-load)	0.24 m <sup>3</sup> /min , 8.5 CFM	0.13 m <sup>3</sup> /min , 7.1 CFM
Stroke speed	3700 min <sup>-1</sup>	6300 min <sup>-1</sup>
Stroke length	9 mm	
File shank size	6.3 mm	5.0 mm
Inlet size	Rc 1/4	
Weight	1.1 kg , 2.4 lbs	0.5 kg , 1.1 lbs



Portable precision finishing file

# SUPER HAND LIGHT

*Lightweight, ultra-low vibration filer for aluminum die cast and machined parts filing.*

**Model SHL-40**



Specifications

Model	SHL-40
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI
Air consumption (No-load)	0.07 m <sup>3</sup> /min , 2.5 CFM
Stroke speed	9000 min <sup>-1</sup>
Stroke length	4 mm
File shank size	3 mm
Inlet size	Rc 1/4
Weight	0.4 kg , 0.88 lbs



Pneumatic die grinder  
**AIR SONIC**

*Ideal for most deburring, finishing and grinding applications.*

- Precision machined with heavy-duty spindle and support bearings.
- Rear exhaust with noise reduction system.
- Suitable for industrial and production applications.
- Locking throttle lever helps prevent accidental start-up.
- Accepts most stone-type and rotary carbide burrs with 6 mm shanks.

Model **L-25B** 

For all grinding, deburring and finishing jobs.



Model **L-35C** 

Ideal for rotary burrs.



Specifications

Model	L-25B (mm size)	L-25B (Inch size)	L-35C (mm size)	L-35C (Inch size)
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI			
Air consumption (No-load)	0.4 m <sup>3</sup> /min , 14.1 CFM		0.35 m <sup>3</sup> /min , 12.4 CFM	
Free speed	27000 min <sup>-1</sup> (rpm)		37500 min <sup>-1</sup> (rpm)	
Chuck size	6 mm	1/4"	6 mm	1/4"
Inlet size	Rc 1/4			
Weight (Without hose)	0.6 kg , 1.3 lbs		0.45 kg , 1.0 lbs	



Pneumatic die grinder  
**AIR SONIC**

*High speed rotation 56500 rpm.*

- Smooth high speed rotation and low vibration enables precision grinding.
- Stepless speed change from 0 to 56500 rpm meets a wide range of grinding applications.
- Compact and light weight for comfortable operation over long periods of time.
- Triangular grip fits operator's hand. Special plastic grip prevents cold hands and absorbs vibration.
- Rear exhaust system.

Model **AL-55A** 

mm size



Inch size



Specifications

Model	AL-55A (mm size)	AL-55A (Inch size)
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI	
Air consumption (No-load)	0.17 m <sup>3</sup> /min , 6.0 CFM	
Free speed	56500 min <sup>-1</sup> (rpm)	
Chuck size	3 mm	1/8"
Inlet size	G 1/4	1/4"
Weight (Without hose)	0.27 kg	0.60 lbs



Pneumatic belt sander

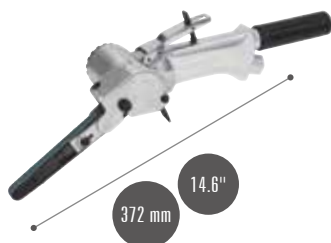
# BELTON

*Ideal for sanding and grinding in narrow spaces, recessed areas and on curved surfaces.*

- Quick belt change.
- Rear exhaust system.

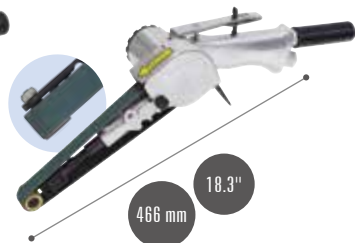
**Model B-10CL**

- Belt size 10 mm (W)



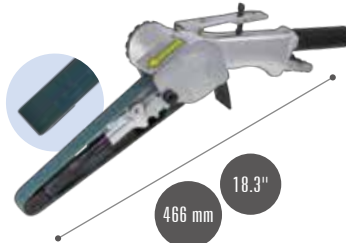
**Model B-20CL**

- Belt size 20 mm (W)  
The Idle Pulley for B-20CL is supported on one side only.



**Model B-20CL-A**

- Belt size 20 mm (W)  
The Idle Pulley for B-20CL-A is supported on both sides.



**Model B-30CL**

- Belt size 30 mm (W)  
The Idle Pulley for B-30CL is supported on one side only.



### Specifications

Model	B-10CL	B-20CL	B-20CL-A	B-30CL
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI			
Air consumption (No-load)	0.4 m <sup>3</sup> /min , 14.1 CFM	0.48 m <sup>3</sup> /min , 16.9 CFM		0.82 m <sup>3</sup> /min , 28.9 CFM
Free speed	17000 min <sup>-1</sup> (rpm)	18000 min <sup>-1</sup> (rpm)		15000 min <sup>-1</sup> (rpm)
Belt speed	1120 m/min , 3675 FPM	2770 m/min , 9087 FPM		2310 m/min , 7578 FPM
Belt size	10 × 330 mm , 3/8" × 13"	20 × 520 mm , 3/4" × 20-1/2"		30 × 540 mm , 3/8" × 13"
Weight	0.9 kg , 1.5 lbs	1.6 kg , 3.5 lbs	1.5 kg , 3.3 lbs	2.4 kg , 5.3 lbs
Vibration level (According to ISO20463)*	1.21 m/s <sup>2</sup>	1.32 m/s <sup>2</sup>	1.09 m/s <sup>2</sup>	1.88 m/s <sup>2</sup>

\* Figures may vary depending on applications.



Pneumatic belt sander

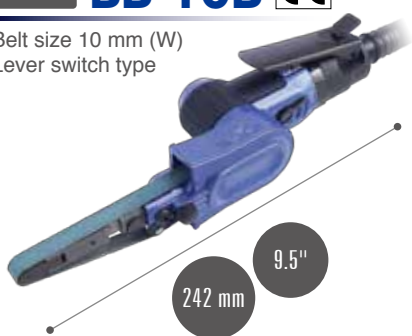
# BABY BELTON

*Ideal for deburring, chamfering, bead grinding, and polishing applications.*

- Compact and lightweight, yet powerful.
- Reversible rotation direction.
- Ergonomically designed for left or right hand operator convenience.

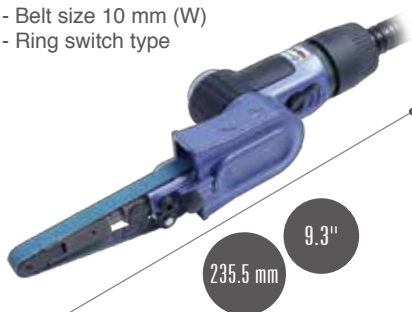
**Model BB-10B**

- Belt size 10 mm (W)  
- Lever switch type



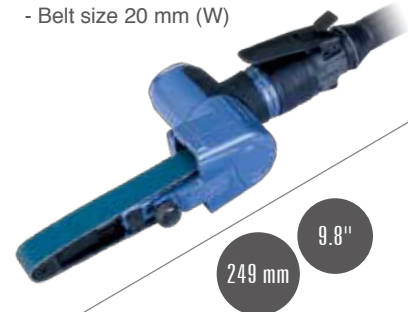
**Model BB-10B** Non-CE

- Belt size 10 mm (W)  
- Ring switch type



**Model BB-20**

- Belt size 20 mm (W)



### Specifications

Model	BB-10B (Lever switch type)	BB-10B (Ring switch type)	BB-20
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI		
Air consumption (No-load)	0.2 m <sup>3</sup> /min , 7.1 CFM		0.43 m <sup>3</sup> /min , 15.2 CFM
Free speed	17000 min <sup>-1</sup> (rpm)		
Belt speed	1120 m/min , 3675 FPM		1100 m/min , 3608.9 FPM
Belt size	10 × 330 mm , 3/8" × 13"		20 × 330 mm , 3/4" × 13"
Inlet size	Rc 1/4		
Weight	0.55 kg , 1.2 lbs	0.5 kg , 1.1 lbs	0.8 kg , 1.76 lbs



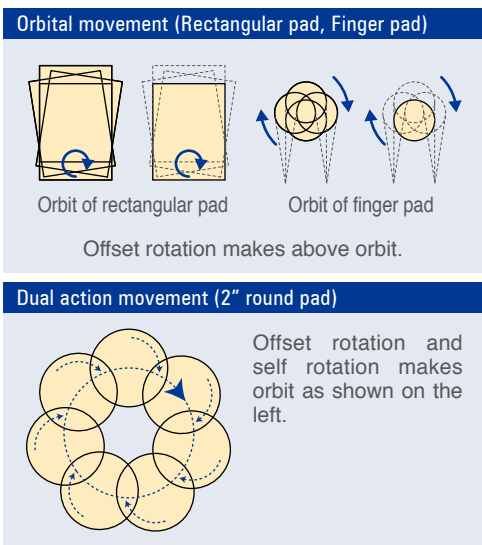
Pneumatic sander

# COMPACT MULTI SANDER

*Excellent for sanding on narrow, confined, and hard-to-reach areas with three types of pads.*

- By replacement of the pad, both random orbital action and multiple movement are available with one set.
- Finish sanding on a small part is possible with a small pad.
- Sanding in a confined space is possible due to compact and lightweight body.

Model **CMX-20**



## Specifications

Model	CMX-20
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI
Air consumption (No-load)	0.15 m <sup>3</sup> /min , 5.29 CFM
Orbit diameter	2 mm , 0.07"
Weight (Without pad)	0.53 kg , 1.16 lbs



Pneumatic deburring tool

# BURR CUTTER

*For deburring machined holes.*

- While gripping the lever, push the countersink into the machined holes to remove burrs.
- Optimum speed can be obtained by the adjust valve, resulting in clear deburred surfaces.
- Push-to-engage type prevents the countersink from coming off the hole and damaging the workpiece.
- Replacement of the countersink is easy and quick with a set of three quick change chucks provided.

Model **BC-005**



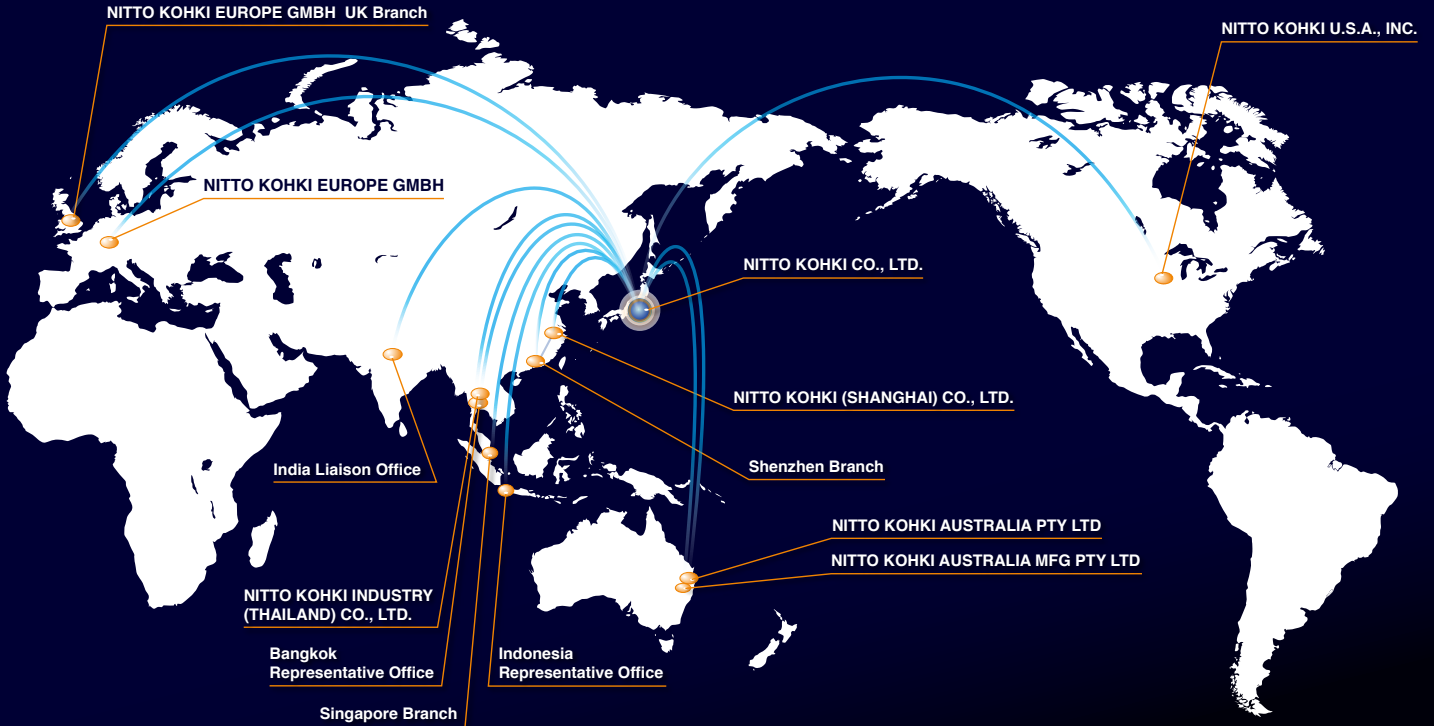
## Specifications

Model	BC-005
Air pressure	0.6 MPa , 6 kgf/cm <sup>2</sup> , 85 PSI
Air consumption (No-load)	0.22 m <sup>3</sup> /min , 7.76 CFM
Free speed	420 min <sup>-1</sup> (rpm)
Deburring hole diameter	3 to 34 mm , 0.11" to 1.33"
Countersink shank size*	6, 8, 10, 12 mm
Inlet size	Rc 1/8
Weight (Without hose)	0.75 kg , 1.65 lbs

\* Chuck 12 mm is optional.  
Countersinks are not provided with the tool. Please purchase them locally.



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