















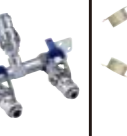
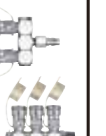


# Guide for Selecting "NITTO KOHKI" Standard Cuplas

This chart will let you quickly select an appropriate Cupla for your application.

For technical data, please refer to the detailed information pages of each Cupla, Seal Material Selection Table and Body Material Selection Table at the end of this catalog.

Applicable fluid		For Low Pressure (Air)																	
Name		Micro Cupla	Small Cupla	Compact Cupla	Cube Cupla	Super Cupla	Hi Cupla	Hi Cupla BL	Hi Cupla 200	Hi Cupla for Connection to Braided Hoses	Nut Cupla Rotary Nut Cupla	Nut Cupla 200	Lock Cupla 200	Hi Cupla Two Way Type	Full-Blow Cupla	Purge Hi Cupla PVR	Purge Hi Cupla	Purge Line Cupla	Rotary Line Cupla
Photo																			
Body material	Brass	1.0	1.0	1.0			1.0			1.0							1.0	1.0	
	Stainless steel	1.0		1.0			1.5	1.5											
	Steel					1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5					
	Plastic				1.0														
Working pressure (MPa)	Others					1.0								1.5	1.5				1.5
Body surface treatment		Plated (Brass only)	Chrome plated	—	—	Chrome plated (Steel only)	Chrome plated (Steel only)	Chrome plated (Steel only)	Chrome plated	Chrome plated (Steel only)	Chrome plated	Chrome plated	Chrome plated	Chrome plated	—	—	Chrome plated	Chrome plated	Chrome plated
Size	1/8"	○	○	○	○	○	○												
	1/4"		○			○	○	○	○				○	○	○			○	○
	5/16"																		
	3/8"						○	○	○				○	○	○			○	○
	1/2"						○	○	○				○	○	○	○	○	○	○
	3/4"						○	○							○	○			
	1"						○									○			
	1 1/4"																		
	1 1/2"																		
	2"																		
	2 1/2"																		
	3"																		
4"																			
Others	○	○	○	○	○		○	○	○	○	○	○	○		○				○
Working temperature range		-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +180°C (FKM)	-20°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)
Seal material		NBR, FKM	NBR	FKM, EPDM	NBR	NBR	NBR, FKM	NBR	NBR	NBR	NBR	NBR	NBR	NBR, FKM	NBR	NBR	NBR	NBR	NBR
Connection method	Manual			○			○	○		○	○			○					○
	Push-to-connect	○	○		○	○			○			○	○		○	○	○	○	○
Valve structure	Two-way shut-off			○	○														
	Two-way shut-off (Non-Spill)																		
	One-way shut-off	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Straight through				○														
Detailed information page		17	21	23	25	27	29	31	33	35	35	35	37	38	39	41	43	44	45

# Guide for Selecting "NITTO KOHKI" Standard Cuplas

This chart will let you quickly select an appropriate Cupla for your application.

For technical data, please refer to the detailed information pages of each Cupla, Seal Material Selection Table and Body Material Selection Table at the end of this catalog.

Applicable fluid		For Low Pressure (Air)										For Oxygen and Fuel Gas		For Low Pressure (Water)					
Name		Line Cupla 200T/L/S	Rotary Full-Blow Line Cupla	Hi Cupla Ace	Rotary Plug	Twist Plug	Purge Plug	Anti-Vibration Plug Hose	Duster Cupla	NK Cupla Hose	NK Cupla Coil Hose	Mini Cupla	Mini Cupla Super	Micro Cupla	Small Cupla	Compact Cupla	Cube Cupla	Hi Cupla	Hi Cupla Ace
Photo																			
Body material	Brass											0.7	0.7	1.0	1.0	1.0		1.0	
	Stainless steel													1.0		1.0		1.5	
	Steel				1.5	1.0	1.0						0.7						
	Plastic			1.0, 1.5													1.0		1.0, 1.5
Working pressure (MPa)	Others	1.5	1.5				1.5	1.0	1.0	0.7									
Body surface treatment		Chrome plated	—	—	Nickel plated	Nickel plated	Chrome plated	—	Chrome plated	Chrome plated (Plug only)	Chrome plated (Plug only)	—	Chrome plated	Plated (Brass only)	Chrome plated	—	—	—	—
Size	1/8"					○						○		○	○	○	○	○	
	1/4"	○	○	○	○	○	○	○	○			○	○		○			○	○
	5/16"																		
	3/8"			○	○	○	○	○	○			○	○					○	○
	1/2"	○	○				○		○									○	
	3/4"																	○	
	1"																	○	
	1 1/4"																		
	1 1/2"																		
	2"																		
	2 1/2"																		
	3"																		
4"																			
Others		○	○			○		○	○	○	○	○	○	○	○	○	○		○
Working temperature range		-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)	-20°C to +60°C (NBR)	—	-20°C to +60°C (NBR)	-5°C to +60°C (NBR)	-5°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +180°C (FKM)	-20°C to +60°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)
Seal material		NBR	NBR	NBR	NBR	NBR	NBR	—	NBR	NBR	NBR	NBR	NBR	NBR, FKM	NBR	FKM, EPDM	NBR	NBR, FKM	NBR
Connection method	Manual								○							○		○	
	Push-to-connect	○	○	○						○	○	○	○	○	○	○	○	○	○
Valve structure	Two-way shut-off															○	○		
	Two-way shut-off (Non-Spill)																		
	One-way shut-off	○	○	○					○	○	○	○	○	○	○		○	○	○
	Straight through																○		
Detailed information page		47	49	51	53	54	55	56	57	58	58	59	61	20	21	23	25	29	51

# Guide for Selecting "NITTO KOHKI" Standard Cuplas

This chart will let you quickly select an appropriate Cupla for your application.







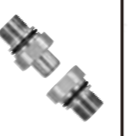









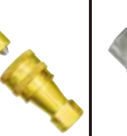

For technical data, please refer to the detailed information pages of each Cupla, Seal Material Selection Table and Body Material Selection Table at the end of this catalog.

Applicable fluid		For Low Pressure (Water)				For Medium Pressure / For Low Pressure					For High Pressure								
Name		Mold Cupla	Mold Cupla High Flow Type	Flow Meter	Lever Lock Cupla	TSP Cupla	TSP Cupla with Ball Valve	SP Cupla Type A	Hot Water Cupla HW Type	Zerospill Cupla	HSP Cupla	Hyper HSP Cupla	210 Cupla	HSU Cupla	S210 Cupla	280 Cupla	350 Cupla	Flat Face Cupla F35	Flat Face Cupla FF
Photo																			
Body material	Brass	1.0	1.0			5.0,3.0,2.0,1.5	1.0	5.0,3.0,2.0,1.5	2.0	3.5									
	Stainless steel				1.8, 1.6, 1.1	7.5,4.5,3.0,2.0		7.5,4.5,3.0,2.0		3.5				21.0	20.6				
	Steel					7.5,4.5,3.0,2.0		7.5,4.5,3.0,2.0			20.6,18.0,14.0	20.6	20.6			31.5, 27.5	34.5	35	35
	Plastic				0.5, 0.2														
Working pressure (MPa)				0.5	1.8,1.1,0.9,0.7														
Body surface treatment		—	—	—	—	Nickel plated (Steel only)	—	Nickel plated (Steel only)	Nickel plated	—	Nickel plated	Nickel plated	Nickel plated	—	—	Bright chromate conversion coating	Nickel plated	Nickel plated	Nickel plated
Size	1/8"	○				○		○											
	1/4"	○	○			○	○	○	○	○	○	○	○	○	○	○	○	○	○
	5/16"																		
	3/8"	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○
	1/2"		○			○	○	○	○	○	○	○	○	○	○	○	○	○	○
	3/4"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	1"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	1 1/4"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	1 1/2"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	2"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	2 1/2"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	3"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	4"				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Others	○				○														
Working temperature range		-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	+20°C to +60°C (NBR)	-20°C to +80°C (NBR) +5°C to +50°C (PP body)	-20°C to +80°C (NBR)	-5°C to +120°C (FKM)	-20°C to +80°C (NBR)	-20°C to +180°C (FKM)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +120°C (HNBR)	-20°C to +180°C (FKM)	-20°C to +80°C (NBR)	-20°C to +180°C (FKM)	-20°C to +180°C (FKM)	-20°C to +80°C (NBR)
Seal material		NBR, FKM	NBR, FKM	NBR	NBR, FKM, SI, EPDM	NBR, FKM, EPDM	FKM	NBR, FKM, EPDM	FKM	NBR, FKM, EPDM	NBR, FKM	NBR	NBR, FKM	HNBR	FKM, NBR	NBR	FKM, NBR	FKM, NBR	NBR
Connection method	Manual				○	○	○	○	○		○	○	○	○	○	○	○		
	Push-to-connect	○	○							○							○	○	○
Valve structure	Two-way shut-off							○	○		○	○	○	○	○	○	○		
	Two-way shut-off (Non-Spill)									○							○	○	○
	One-way shut-off	○	○				○												
	Straight through	○	○		○	○													
Detailed information page		63	65	66	67	71	73	75	77	79	81	83	85	87	89	91	93	95	97

# Guide for Selecting "NITTO KOHKI" Standard Cuplas



This chart will let you quickly select an appropriate Cupla for your application.

For technical data, please refer to the detailed information pages of each Cupla, Seal Material Selection Table and Body Material Selection Table at the end of this catalog.

Applicable fluid		For High Pressure		For Multi-Port Connection (Manual)			For Multi-Port Connection (Automatic)					For High Purity Chemicals					For Inert Gas and Vacuum		
Name		450B Cupla	700R Cupla	Multi Cupla MAM Type	Multi Cupla MAM-B Type	Multi Cupla MAM-A Type	Multi Cupla MAS Type	Multi Cupla MAT Type	Multi Cupla MALC-01 Type	Multi Cupla MALC-SP Type	Multi Cupla MALC-HSP Type	Semicon Cupla SP Type	Semicon Cupla SCS Type	Semicon Cupla SCY Type	Semicon Cupla SCT Type	Semicon Cupla SCAL Type	Semicon Cupla SCF Type	SP-V Cupla	PCV Pipe Cupla
Photo																			
Body material	Brass			0.7	1.0	1.0			1.0									5.0, 3.0	4.5
	Stainless steel						7.0	7.0		7.5, 5.0, 1.5		0.2	0.2	0.2					7.5, 4.5
	Steel	44.1	68.6								25.0, 21.0								
	Plastic													0.2	0.2	0.2			
	Others																		
Body surface treatment		Nickel plated	Nickel plated	Chrome plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Electropolished	Electropolished	Electropolished	—	—	—	—	—
Size	1/8"			○	○				○	○	○	○	○	○	○	○	○	○	○
	1/4"				○	○	○	○		○	○	○	○	○	○	○	○	○	○
	5/16"																		
	3/8"	○	○			○	○	○		○	○	○	○	○	○	○	○	○	○
	1/2"		○			○	○	○		○	○	○	○	○	○	○	○	○	○
	3/4"						○	○		○	○	○	○	○	○	○	○	○	○
	1"						○	○		○	○	○	○	○	○	○	○	○	○
	1 1/4"																		
	1 1/2"									○						○			
	2"																		
	2 1/2"																		
	3"																		
4"																			
Others									○	○	○						○	○	
Working temperature range		-20°C to +80°C (NBR)	-20°C to +80°C (NBR)	-20°C to +60°C (NBR)	-20°C to +180°C (FKM)	-20°C to +180°C (FKM)	-20°C to +180°C (FKM)	-20°C to +180°C (FKM)	-20°C to +80°C (NBR)	-20°C to +180°C (FKM)	-20°C to +180°C (FKM)	0°C to +50°C (FKM)	0°C to +50°C (P)	0°C to +50°C (P)	+5°C to +50°C (FKM)	+5°C to +50°C (FKM)	+5°C to +50°C (FKM)	-20°C to +80°C (CR)	-20°C to +80°C (CR)
Seal material		NBR, FKM	NBR, FKM	NBR	FKM	FKM	FKM	FKM	NBR	FKM	FKM	FKM, EPDM, P, KL	P (O-ring for socket)	P, PTFE (Packing seal for socket)	FEP-coated FKM	P (O-ring for socket)	FEP-coated FKM	CR, FKM, HNBR	CR, FKM, HNBR
Connection method	Manual	○	○									○	○	○	○	○	○	○	○
	Push-to-connect																		
Valve structure	Two-way shut-off	○	○		○	○	○	○				○	○	○	○	○	○	○	○
	Two-way shut-off (Non-Spill)									○	○								
	One-way shut-off			○															
	Straight through																		○
Detailed information page		99	100	101	103	107	111	111	113	115	119	123	124	125	126	127	128	129	131

# Guide for Selecting "NITTO KOHKI" Standard Cuplas

This chart will let you quickly select an appropriate Cupla for your application. For technical data, please refer to the detailed information pages of each Cupla, Seal Material Selection Table and Body Material Selection Table at the end of this catalog.

Applicable fluid		For Paint	For Food
Name		Paint Cupla	Hygienic Cupla Easy Wash Type
Photo			 <b>NEW</b>
Body material • Working pressure (MPa)	Brass		
	Stainless steel	1.0 (Plug)	1.0
	Steel		
	Plastic		
Others		1.0 (Socket)	
Body surface treatment		—	Buff finish #400 (liquid contact part)
Size	1/8"		
	1/4"		
	5/16"		
	3/8"	○	
	1/2"		
	3/4"		
	1"		
	1 1/4"		
	1 1/2"		
	2"		
2 1/2"			
3"			
4"			
Others			○
Working temperature range		0°C to +50°C (PFA)	0°C to +110°C (SI)
Seal material		PFA	SI, FKM, EPDM
Connection method	Manual	○	
	Push-to-connect		○
Valve structure	Two-way shut-off		
	Two-way shut-off (Non-Spill)		
	One-way shut-off	○	
	Straight through		○
Detailed information page		133	135

## Cupla Quality Control

Cuplas are delivered to the user only after passing the most stringent quality control procedures, including careful selection of materials, unending pursuit of process accuracy and rigorous durability tests. Long years of devotion to thorough quality control are paying dividends in users' confidence today but still we persist in challenging even higher quality levels.

Quality control system that earns the constant trust from users



Electron microscope

Inspection and measurement with various testing devices



Automatic Cupla inspection system

Inspection in clean room



Shape measuring machine

Hydraulic impact tester

# Semi-standard Cupla Series

"Semi-standard Cupla Series" are products with an already established record but are not standard stock items.

## Cupla Safety Mechanism For Water

**Cupla with Single Lock** 137 Page  
Accidental disconnection prevention mechanism



**TSP-HP Cupla (for High Pressure)** 138 Page  
High pressure and general purpose type



Valve structure: Straight through  
Working pressure: 9.0 MPa (92 kgf/cm<sup>2</sup>)  
Body material: Stainless steel  
Application: 1/4" to 1/2"  
Seal material: NBR, etc.

**Cupla with Safety Lock** 137 Page  
Accidental disconnection prevention mechanism



## For Low Pressure (air)

**Plastic Cupla BC Type** 141 Page  
Valveless type for low pressure air piping



Valve structure: Straight through  
Working pressure: 0.07 MPa (0.7 kgf/cm<sup>2</sup>)  
Body material: Plastic  
Application: 1/4", 3/8"  
Seal material: NBR

## For Temperature Controllers

**MYU Cupla** 138 Page  
For small bore piping (max. 10 mm outer diameter) to control temperatures  
Applicable fluid: Water, gas, air



Valve structure: Two-way shut-off  
Working pressure: 1.0 MPa (10 kgf/cm<sup>2</sup>)  
Body material: Stainless steel, brass (Plated)  
Application: Please let us know the required sizes and end configurations.  
Seal material: NBR, EPDM, FKM

**Plastic Cupla BCC Type** 141 Page  
Equipped with flow controller for low pressure air piping



Valve structure: One-way shut-off  
Working pressure: 0.07 MPa (0.7 kgf/cm<sup>2</sup>)  
Body material: Plastic  
Application: 3/8"  
Seal material: NBR

**Little Cupla** 138 Page  
For small bore piping (max. 14 mm outer diameter) to control temperatures  
Applicable fluid: Water, gas, air



Valve structure: Two-way shut-off  
Working pressure: 1.5 MPa (15 kgf/cm<sup>2</sup>)  
Body material: Stainless steel  
Application: Please let us know the required sizes and end configurations.  
Seal material: NBR, EPDM, FKM

**High Flow Cupla** 139 Page  
For piping to control temperatures  
Applicable fluid: Water, Heat transfer fluids



Valve structure: Two-way shut-off  
Working pressure: 1.0 MPa (10 kgf/cm<sup>2</sup>)  
Body material: Stainless steel, brass  
Application: 1/4" to 1/2"  
Seal material: EPDM, FKM

**High Flow Cupla BI Type** 140 Page  
High Flow Cupla with ferrule flange mount  
Applicable fluid: Water, Heat transfer fluids



Valve structure: Two-way shut-off  
Working pressure: 1.0 MPa (10 kgf/cm<sup>2</sup>)  
Body material: Stainless steel  
Application: 1/8" to 1/2"  
Seal material: EPDM, FKM

## When placing your order

Please select your appropriate combination from the column in each product page (on the right beside the product name) then decide the seal and body materials from the selection tables listed at the end of the catalog.

# Accessories

## Accessories

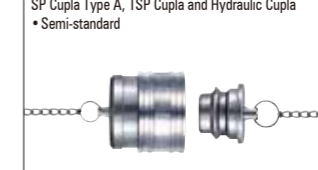
**Dip Mold Cap** 142 Page  
Dust caps for Hi Cupla, SP Cupla Type A, TSP Cupla, Zerospill Cupla and Hydraulic Cupla



**Sleeve Stopper** 144 Page  
Sleeve Stopper for SP Cupla Type A



**Safety Cap** 142 Page  
Metal caps for Hi Cupla Series, SP Cupla Type A, TSP Cupla and Hydraulic Cupla  
• Semi-standard



**Accessories for O-ring Maintenance** 144 Page  
Jigs & grease for replacement of O-rings for couplings  
For SP Cupla Type A, TSP Cupla, Hot Water Cupla, Zerospill Cupla, HSP Cupla, HSU Cupla and Hygienic Cupla



**Dust Cap** 143 Page  
Plastic cap for Hi Cupla Series



**Purge Adapter** 145 Page  
Metal Purge Adapter for Hydraulic lines  
• Semi-standard



**Dust Cap** 143 Page  
Dedicated polyethylene cap for Hygienic Cupla



**Residual Pressure Release Jig** 145 Page  
Residual Pressure Release Jig for SP Cupla and Hydraulic Cuplas



**Sleeve Cover** 143 Page  
Plastic cover for Hi Cupla Series



**Cupla Adapter for Braided Hose Connection** 145 Page  
Mounts on Cupla plug / socket with female thread



**Protection Cover** 143 Page  
Plastic Cover for Nut Cupla and Full-Blow Cupla Nut Type



**Cupla Connecting Jig** 146 Page  
Connecting Jig for large Cupla



**Drain Cock / Pressure Gauge** 144 Page  
Accessories for Air Lines of Hi Cupla Series

