

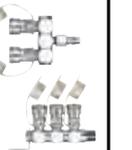
Guide for Selecting “NITTO KOHKI” Standard Cuplas

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
Photo									
Body material • Working pressure (MPa)	Brass	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
	Plastic				1.0				
	Others					1.0			
Body surface treatment		Plated (Brass only)	Chrome plated	—	—	Chrome plated (Steel only)	Chrome plated (Steel only)	Chrome plated (Steel 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 +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)
Seal material		NBR, FKM	NBR	FKM, EPDM	NBR	NBR	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				○				
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For Low Pressure (Air)									
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
									
1.0							1.0	1.0	
1.5	1.5	1.5	1.5	1.5					
					1.5	1.5			1.5
Chrome plated (Steel only)	Chrome plated	Chrome plated	Chrome plated	Chrome plated	—	—	Chrome plated	Chrome plated	Chrome plated
			○	○	○		○		○
			○	○	○		○		○
			○	○	○	○	○	○	○
						○	○		
						○	○		
○	○	○	○		○				○
-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)
NBR	NBR	NBR	NBR	NBR, FKM	NBR	NBR	NBR	NBR	NBR
○	○		○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○
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Applicable fluid		For Low Pressure (Air)							
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
Photo									
Body material	Brass								
	Stainless steel								
	Working pressure (MPa)				1.5	1.0	1.0		
	Steel								
	Plastic			1.0, 1.5					
	Others	1.5	1.5					1.5	1.0
Body surface treatment		Chrome plated	—	—	Nickel plated	Nickel 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 +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)
Seal material		NBR	NBR	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								
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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.

For Low Pressure (Air)		For Oxygen and Fuel Gas		For Low Pressure (Water)					
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
									
		0.7	0.7	1.0	1.0	1.0		1.0	
				1.0		1.0		1.5	
			0.7						
							1.0		1.0, 1.5
1.0	0.7								
Chrome plated (Plug only)	Chrome plated (Plug only)	—	Chrome plated	Plated (Brass only)	Chrome plated	—	—	—	—
		○		○	○	○	○	○	
		○	○		○			○	○
		○	○					○	
		○	○					○	○
								○	
								○	
								○	
○	○	○	○	○	○	○	○		○
-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)
NBR	NBR	NBR	NBR	NBR, FKM	NBR	FKM, EPDM	NBR	NBR, FKM	NBR
○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○
58	58	59	61	20	21	23	25	29	51

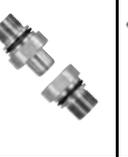
Guide for Selecting “NITTO KOHKI” Standard Cuplas

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			
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
Photo									 NEW
Body material • Working pressure (MPa)	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
	Stainless steel				1.8, 1.6, 1.1	7.5,4.5,3.0,2.0		7.5,4.5,3.0,2.0	
	Steel					7.5,4.5,3.0,2.0		7.5,4.5,3.0,2.0	
	Plastic				0.5, 0.2				
	Others			0.5	1.8,1.1,0.9,0.7				
Body surface treatment		—	—	—	—	Nickel plated (Steel only)	—	Nickel plated (Steel only)	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)
Seal material		NBR, FKM	NBR, FKM	NBR	NBR, FKM, SI, EPDM	NBR, FKM, EPDM	FKM	NBR, FKM, EPDM	FKM
Connection method	Manual				○	○	○	○	○
	Push-to-connect	○	○						
Valve structure	Two-way shut-off							○	○
	Two-way shut-off (Non-Spill)								
	One-way shut-off	○	○				○		
	Straight through	○	○		○	○			
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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)		
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
Photo									
Body material	Brass			0.7	1.0	1.0			1.0
	Stainless steel						7.0	7.0	
	Working pressure (MPa)	Steel	44.1	68.6					
	Plastic								
	Others								
Body surface treatment		Nickel plated	Nickel plated	Chrome plated	Nickel plated	Nickel plated	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 +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)
Seal material		NBR, FKM	NBR, FKM	NBR	FKM	FKM	FKM	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								
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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.

For Multi-Port Connection (Automatic)		For High Purity Chemicals						For Inert Gas and Vacuum	
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
									
7.5, 5.0, 1.5	25.0, 21.0	0.2	0.2	0.2				5.0, 3.0 7.5, 4.5	4.5
					0.2	0.2	0.2		
Nickel plated	Nickel plated	Electropolished	Electropolished	Electropolished	—	—	—	—	—
○	○	○	○	○					
○	○	○	○	○	○	○		○	○
○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	
○	○	○	○	○	○	○			
○						○			
○	○						○		○
-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)
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
		○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○
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			 NEW
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.

Accessories

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  <p>Valve structure: Straight through</p> <p>Working pressure : 9.0 MPa {92 kgf/cm²} Body material : Stainless steel Application : 1/4" to 1/2" Seal material : NBR, etc.</p>
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  <p>Valve structure: Straight through</p> <p>Working pressure : 0.07 MPa {0.7 kgf/cm²} Body material : Plastic Application : 1/4", 3/8" Seal material : NBR</p>
For Temperature Controllers	
MYU Cupla 138 Page For small bore piping (max.10 mm outer diameter) to control temperatures Applicable fluid : Water, gas, air  <p>Valve structure: Two-way shut-off</p> <p>Working pressure : 1.0 MPa {10 kgf/cm²} Body material : Stainless steel, brass (Plated) Application : Please let us know the required sizes and end configurations. Seal material : NBR, EPDM, FKM</p>	Plastic Cupla BCC Type 141 Page Equipped with flow controller for low pressure air piping  <p>Valve structure: One-way shut-off</p> <p>Working pressure : 0.07 MPa {0.7 kgf/cm²} Body material : Plastic Application : 3/8" Seal material : NBR</p>
Little Cupla 138 Page For small bore piping (max.14 mm outer diameter) to control temperatures Applicable fluid : Water, gas, air  <p>Valve structure: Two-way shut-off</p> <p>Working pressure : 1.5 MPa {15 kgf/cm²} Body material : Stainless steel Application : Please let us know the required sizes and end configurations. Seal material : NBR, EPDM, FKM</p>	
High Flow Cupla 139 Page For piping to control temperatures Applicable fluid: Water, Heat transfer fluids  <p>Valve structure: Two-way shut-off</p> <p>Working pressure : 1.0 MPa {10 kgf/cm²} Body material : Stainless steel, brass Application : 1/4" to 1/2" Seal material : EPDM, FKM</p>	
High Flow Cupla BI Type 140 Page High Flow Cupla with ferrule flange mount Applicable fluid: Water, Heat transfer fluids  <p>Valve structure: Two-way shut-off</p> <p>Working pressure : 1.0 MPa {10 kgf/cm²} Body material : Stainless steel Application : 1/8" to 1/2" Seal material : EPDM, FKM</p>	

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	
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 	