



WOITOP



Simplified Product Catalog

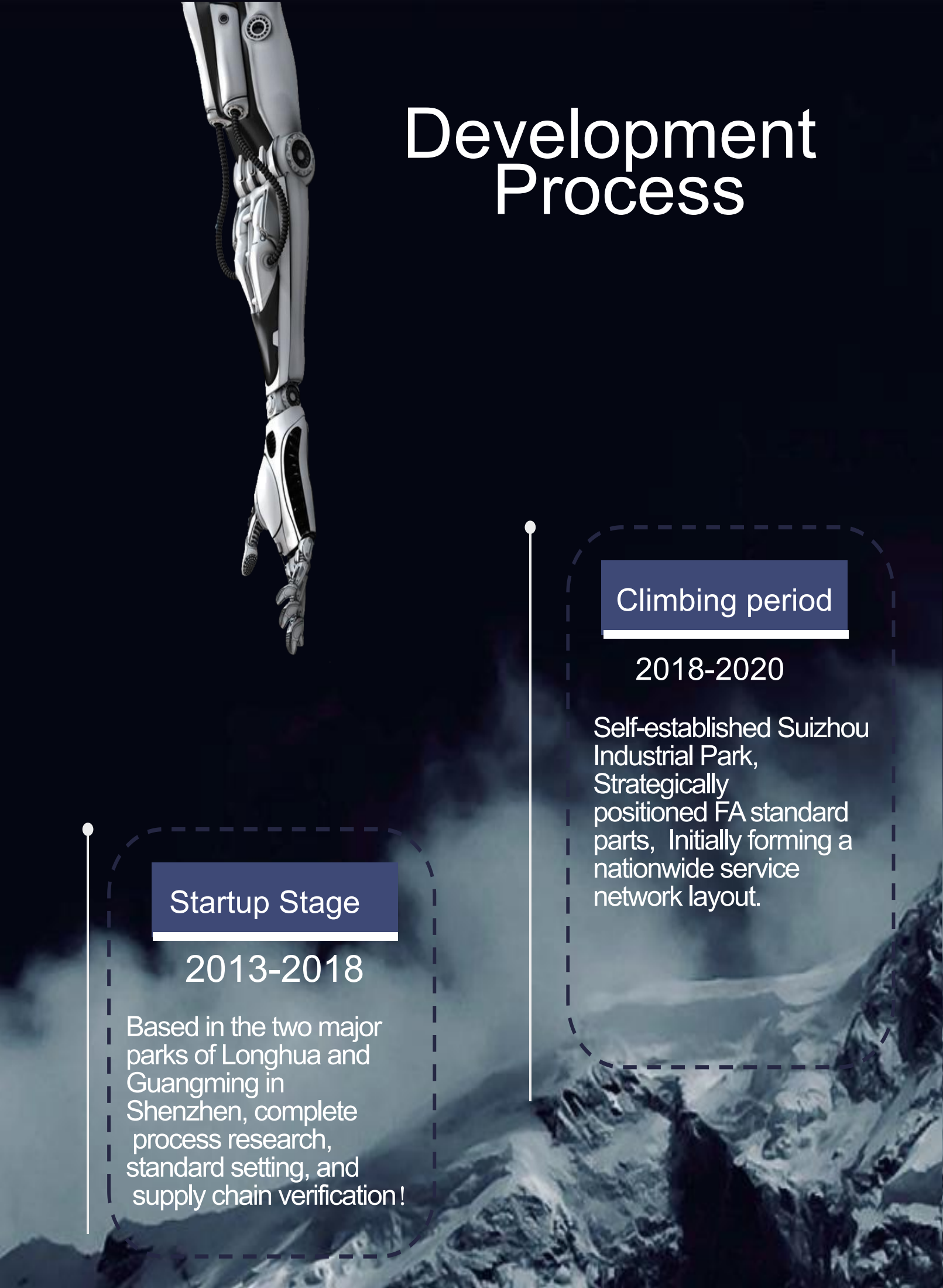
Shenzhen Tianyi Intelligent Technology Co., Ltd.

Company Profile





Shenzhen Tianyi Intelligent Technology Co., Ltd. is headquartered in Longhua District, Shenzhen, with two production bases in Suizhou, Hubei, and Huizhou, Guangdong. The total business area is approximately 220,000 square meters. It is a national high-tech enterprise and a specialized, refined, differentiated, and innovative small and medium-sized enterprise in Shenzhen. The company mainly engages in the research and development, design, production, sales, and service of FA (Factory Automation) precision standard components, as well as the manufacturing of tooling fixtures and automation equipment (lines). Its products are widely used in industries such as consumer electronics, new energy, food and beverage, pharmaceuticals, and packaging.



Development Process

Startup Stage

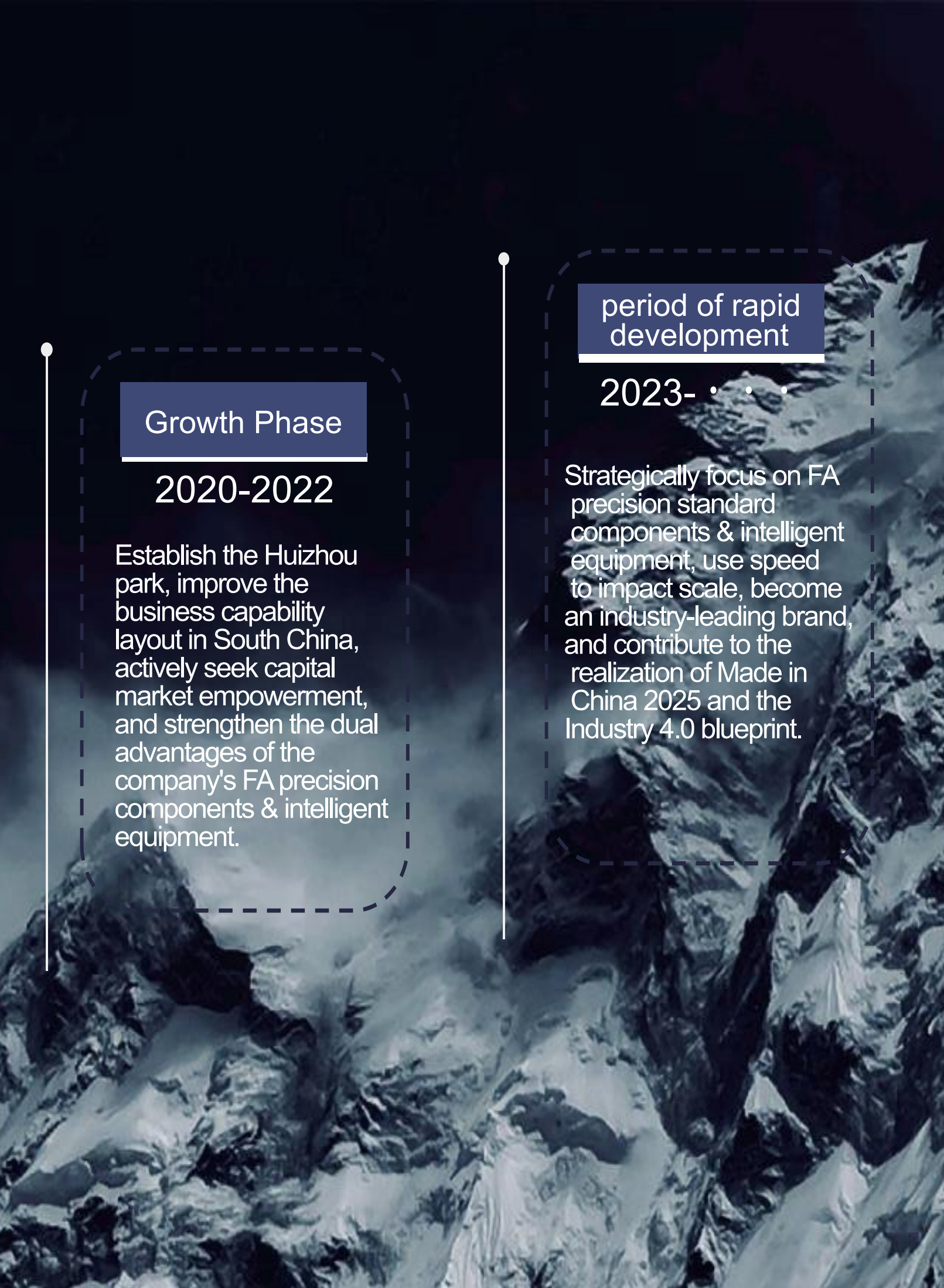
2013-2018

Based in the two major parks of Longhua and Guangming in Shenzhen, complete process research, standard setting, and supply chain verification!

Climbing period

2018-2020

Self-established Suizhou Industrial Park, Strategically positioned FA standard parts, Initially forming a nationwide service network layout.



Growth Phase

2020-2022

Establish the Huizhou park, improve the business capability layout in South China, actively seek capital market empowerment, and strengthen the dual advantages of the company's FA precision components & intelligent equipment.

period of rapid
development

2023- . . .

Strategically focus on FA precision standard components & intelligent equipment, use speed to impact scale, become an industry-leading brand, and contribute to the realization of Made in China 2025 and the Industry 4.0 blueprint.

Steel-based and aluminum-based modules



Standard screw slide module WETH series



Model	Model	Maximum stroke mm	Maximum Load kg	Motor position
WETH13	Medium-sized	1050	70	Motor direct connection Motor exposed Motor downward Motor right bend Motor left bend
WETH14		1050	110	
WETH17		1250	120	
WETH22	Large-scale	1500	150	
WETH17M		1250	120	
WETH22M		1500	150	



Standard belt slide module - WETB series



Model	Model	Maximum stroke mm	Maximum Load kg	Motor position
WETB10	Medium-sized	2550	20	Left side of the motor Upper left side of the motor Lower left side of the motor
WETB14M		3050	25	Motor installed straight to the left Right side of the motor
WETB17M	Large-scale	3050	45	Upper right side of the motor Lower right side of the motor
WETB22M		3500	85	Motor installed straight to the right



Integrated rail type linear stage module - WGTH series



Model	Model	Maximum stroke mm	Maximum Load kg	Motor position
WGTH4	Small	800	25	Exposed motor Motor folded down Motor folded to the right Motor folded to the left
WGTH5	Medium-sized	800	30	
WGTH8		1100	50	
WGTH12	Large-scale	1250	110	
WGTH5S	Small	325	30	
WGTH8S	Medium-sized	450	50	



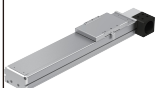
Dust-free screw slide module - WECH series



Model	Model	Maximum stroke mm	Maximum Load kg	Motor position
WECH10	Medium-sized	1050	50	Exposed motor Motor folded down Motor folded to the right Motor folded to the left
WECH12		1050	50	
WECH14		1050	110	
WECH17	Large-scale	1250	120	
WECH22		1500	150	



Dust-free belt slide module, WECB series



Model	Model	Maximum stroke mm	Maximum Load kg	Motor position
WECB10	Medium-sized	2550	10	Left side of the motor Upper left side of the motor Lower left side of the motor
WECB14		3050	25	Motor installed straight to the left Right side of the motor
WECB17		4050	45	Upper right side of the motor Lower right side of the motor
WECB22	Large-scale	3500	85	Motor installed straight to the right



European standard belt module WMK series



Model	Model	Maximum stroke mm	Body wide width mm	Motor position
WMK65	Small	5000	65	Exposed motor Motor folded down Motor folded to the right Motor folded to the left
WMK85	Medium-sized	5000	85	
WMK110	Large-scale	4800	110	



Single-axis driver module WDKK series



Model	Model	Standard stroke mm	Maximum stroke mm	Cover type
WDKK30	Standard type	100,150,200	156	With protective cover
WDKK40		150,200,250,300	136	Does not include a cover
WDKK50		150,200,300,400,500,600	220	



Single-axis driver module WDKK series



Model	Model	Standard stroke mm	Maximum stroke mm	Cover type
WDKK60	Standard type	150,200,300,400,500,600	510	With protective cover
WDKK86		340,440,540,640,740,940	810	
WDKK100		980,1080,1180,1280,1380	1228	Does not include a cover
WDKK130		980,1180,1380,1680	1511	

Note: Those marked with indicate optional prohibited copper and zinc products.



WTA Series Servo Electric Cylinder



Model number	Repeatability positioning accuracy mm	Maximum stroke mm	Installation method
WTA32	0.01	200	Front flange Rear flange Side flange Ear shaft Single-leaf tail hinge Double-leaf tail hinge
WTA40		300	
WTA50		500	



WTA Series Servo Electric Cylinder



Model number	Repeatability positioning accuracy mm	Maximum stroke mm	Installation method
WTA60	0.01	800	Front flange Rear flange Side flange Ear shaft Single-leaf tail hinge Double-leaf tail hinge
WTA75		1200	
WTA94		1500	
WTA100		1800	



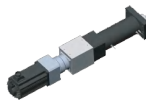
Servo Electric Cylinder - WTB SeriesC



Model number	Repeatability positioning accuracy mm	Maximum stroke mm	Installation method
WTB110	0.01	1800	Front flange Rear flange Side flange Ear shaft Single-leaf tail hinge Double-leaf tail hinge
WTB134		2500	
WTB150		3000	



Servo Electric Cylinder - WTB Series

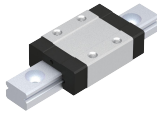


Model number	Repeatability positioning accuracy mm	Maximum stroke mm	Installation method
WTB180	0.01	3500	Front flange Rear flange Side flange Ear shaft Single-leaf tail hinge Double-leaf tail hinge
WTB220		4000	

Note: Those marked with indicate optional prohibited copper and zinc products.



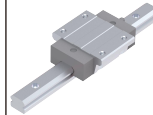
Micro-miniature ball linear guide rails - WG Series



Type	Guide rail size mm	Load type	Material
Standard type Wide-width type Positioning hole type	5	Standard type Longer style Short style	General steel material Stainless steel material
	7		
	9		
	12		
	15		



Low-assembly type ball linear guide WEG series



Slider type	Guide rail size mm	Load type	Slider Fixing method	Guide rail Fixing method
Flange type Square type	15	Medium load Heavy load	Locked type Bottom -locked type Top and bottom locked type	Lockable type Bottom -lock type
	20			
	25			
	30			
	35			



Heavy-duty ball linear guide WHG series



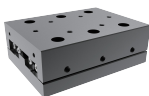
Slider type	Guide rail size mm	Load type	Slider Fixing method	Guide rail Fixing method
Flange type Square type Square type (low)	15	Heavy load Overload	Locked type Bottom -locked type Top and bottom locked type	Lockable type Bottom -lock type
	20			
	25			
	30			
	35			
	45			
	55			
	65			

Cross Roller Slide WVRT Series



Model number	Type	Guide rail material	Retainer material	Roller material
WVRT	Threaded abutment	440C	SUS304	GCr15
WVRT-A	Abutment installation hole type			

Cross Roller Slide WVRU Series



Model number	Type	Guide rail material	Retainer material	Roller material
WVRU	Standard type	440C	SUS304	GCr15

Cross Roller Guide WVR Series



Model number	Type	Guide rail material	Retainer material	Roller material
WVR	Roller type	440C	SUS304	GCr15
WVB	Ball type			

Note: Those marked with indicate optional prohibited copper and zinc products.



Dust-proof ball screw WT-SFA series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFA	12	5,10	C3,C5, C7,C10
	15	5,10,16,20	
	20	5,10,20	
	25	5,10,25	
	32	5,10	
	40	5,10,20	
	50	5,10,20	



Reinforced dust-proof ball screw WT-SFNU series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFNU	16	5,10	C3,C5, C7,C10
	20	5	
	25	5,10	
	32	5,10	
	40	5,10	
	50	10	
	63	10	
	80	10	



Reinforced dust-proof ball screw WT-SFU series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFU	12	4	C3,C5, C7,C10
	16	4	
	20	4	
	25	4,6,8	
	32	4,6,8	
	40	6,8	



Heavy-duty external circulation ball screw WT-SFV series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFV	12	5,10	C3,C5, C7,C10
	15	10	
	16	4,5,10	
	20	4,5,20	
	25	5,6,8,10,25	
	32	4,5,6,8,10	



Heavy-duty external circulation ball screw WT-SFV series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFV	40	5,10,20	C3,C5, C7,C10
	50	5,10	
	63	10	



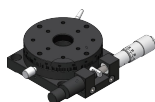
Reinforced dust-proof ball screw WT-SFH series



Model number	Lead screw diameter	lead screw pitch	accuracy level
WT-SFH	12	5,10	C3,C5, C7,C10
	15	5,10,16,20	
	20	5,10,20	
	25	5,10,25	
	32	5,10	
	40	5,10,20	
	50	5,10,20	

Note: Those marked with indicate optional prohibited copper and zinc products.

(High Precision) Manual Rotation, Break-in Installation Type Slide WRPG Series



Slide table surface mm	Displacement	Minimum reading		Load-bearing capacity (N)		eccentricity (μm)
		Cursor scale	micrometer	level		
φ30	Coarse adjustment : 360° Fine adjustment : ±5	0.2°	≈1'26"	9.8	50	
φ60			≈55"	29.4		
φ85	0.1°		≈43"	39.2		
φ110			≈34"	49		

(High Precision Standard Type) Manual X-axis Cross Roller Guide Type Slide Table WXPB Series



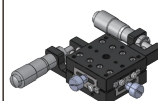
Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)		Parallelism (μm)
		Straightness	Parallelism	level	vertical	
25x25	±3.2	3μm	10μm	9.8	4.9	30μm
40x40	±6.5			19.6	9.8	
60x60				49	19.6	
80x80				98	49	
100x100	147					
120x120	±25			196		

(High Precision) Manual XY Axis Cross Roller Guide Type Slide Table WXPB Series



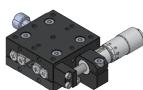
Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)	Parallelism (μm)
		Straightness	Parallelism		
25x25	±3.2	3μm	20μm	9.8	60μm
40x40	±6.5			17.6	
60x60				44.4	
80x80				93.1	
100x100	±12.5			140.1	
120x120	±25			180.3	

(High Precision, Thin Type) Manual XY Axis Crossed Roller Guide Type Slide WXPB Series



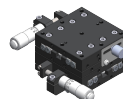
Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)	Parallelism (μm)
		Straightness	Parallelism		
40x40	±6.5	3μm	20μm	9.8	50μm
60x60				29.4	
80x80	±12.5			39.2	
100x100					

(Medium Precision Standard Type) Manual X-axis Cross Roller Guide Type Slide Table WXPB Series



Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)		Parallelism (μm)
		Straightness	Parallelism	level	vertical	
40x40	±6.5	5μm	10μm	19.6	9.8	30μm
60x60				49	19.6	
80x80				98	49	

(Medium Precision) Manual XY Axis Cross Roller Guide Type Slide WXPB Series



Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)		Parallelism (μm)
		Straightness	Parallelism	level	vertical	
40x40	±6.5	5μm	20μm	17.6	60μm	
60x60				44.1		
80x80				93.1		

(Medium Precision, Thin Type) Manual XY Axis Cross Roller Guide Slide WXPB Series



Slide table surface mm	Displacement	Movement accuracy Straightness	Load-bearing capacity (N)	
			level	vertical
40x40	±6.5	30μm	9.8	
60x60			29.4	
80x80			39.2	

(High Precision) Manual Horizontal Plane Z-axis Cross Roller Guide Type Slide WXPB Series



Slide table surface mm	Displacement	Movement accuracy	Load-bearing capacity (N)	Parallelism (μm)
		Straightness		
25x25	±2	3μm	9.8	50μm
40x40	±3		19.6	100μm
60x60	±5		39.2	
80x80			29.4	

(High Precision) Manual Z-axis Cross Roller Guide Type Slide WZPG Series



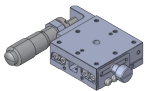
Slide table surface mm	Displacement	Movement accuracy	Load-bearing capacity (N)
		Straightness	
25x25	±3.2	3μm	4.9
40x40	±6.5		9.8
60x60			19.6
80x80	±12.5		49

【Medium Precision】 Manual Z-axis Crossed Roller Guide Type Slide WZCRS Series



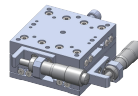
Slide table surface mm	Displacement	Movement accuracy	Load-bearing capacity (N)
		Straightness	
40x40	±6.5	5μm	9.8
60x60			19.6
80x80			49

(High Precision) Manual X-axis Linear Ball Guide Slide Table WXSG Series



Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)		Parallelism (μm)
		Straightness	Parallelism	level	vertical	
25x25	±3.2	3μm	10μm	39.2	9.8	30μm
40x40	±6.5	1μm	7μm	98	49	15μm
50x50				147		
60x60				196		
70x70				225.4		
80x80	±12.5	3μm	8μm	264.6	49	30μm
100x100				343		

(High Precision) Manual XY Axis Linear Ball Guide Type Slide WXYSG Series



Slide table surface mm	Displacement	Movement accuracy		Load-bearing capacity (N)	Parallelism (μm)
		Straightness	Parallelism		
25x25	±3.2	3μm	10μm	38.2	30μm
40x40	±6.5	1μm	12μm	95.1	
50x50				144.2	
60x60				192.1	
70x70				219.5	40μm
80x80	±12.5	3μm	15μm	255.8	
100x100				329.6	

Standard cylinder

Standard cylinder - WCSE series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter	
Standard type Double-axis type Double-axis adjustable type	32	Repetitive motion type	25~500	G1/8	
	40		25~800	G1/4	
	50		25~1000		
	63			G3/8	
	80				G1/2
	100				
	125				

Standard Cylinders - WCSU Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	32	Repetitive motion type	25~500	G1/8
	40		25~1000	G1/4
	50			G3/8
	63			
	80			G1/2
	100			

Standard Cylinders - WCSA Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	32	Repetitive motion type	25~500	G1/8
	40		25~800	G1/4
	50		25~1000	G3/8
	63/80			G1/2
	100			G3/4
	125			G1/2
	160			
	200			

Standard cylinder - WCSC series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	32	Repetitive motion type	25~500	G1/8
	40/50		25~1000	G1/4
	63/80			G3/8
	100/125			G1/2
	160/200			G3/4
	250			G1

Standard Cylinders - WCSG Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	125	Repetitive motion type	25~1000	G1/2
	160			G3/4
	200			
	250			G1

Standard Cylinders - WCSI Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	32	Repetitive motion type	25~500	G1/8
	40		25~1000	G1/4
	50			G3/8
	63			
	80			G1/2
	100			
	125			

Standard Cylinders-WCSB/WCSBW Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Basic type Axial foot type Rod side flange type No rod side flange type Single ear type Double ear type Middle ear type	32	Single-rod double-acting	25~500	G1/8
	40		25~600	G1/4
	50			G3/8
	63	Double pole Double action	25~800	
	80		25~1000	G1/2
	100			
	125			

Standard cylinder WCSS1 series



Type	Bore diameter (mm)		Action type
	Oil-fed type Non-oil-fed type	Gas-liquid combined type	
Basic type	125	125	Single-rod double-acting
Axial foot type	140		
Rod side flange type	160		
No rod side flange type	180	140	Double pole Double action
Single ear type	200		
Double ear type	250	160	
Middle ear type	300		

Hug the cylinder WCBSAI series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Double-axis reciprocating type Adjustable type	32	Repetitive motion type	25~700	G1/8 G3/4
	40		25~800	
	50		25~1000	
	63			
	80			
	100			
	125			
160				

Standard cylinder - WCSA2-Z series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type	40	Double -acting	25~500
Axial foot type	50		25~600
Rod side flange type			
No rod side flange type	63		25~700
Single ear type	80		
Double ear type			
Central ear shaft type	100		

Needle type cylinder

Needle type cylinder, WCME series



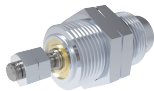
Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type (Single-action extrusion type) Buried installation type	6	Single-action type	5~15	M5x0.8
	8			
	10			
	12			
	16			

Needle type cylinder WCMP series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard panel type Hinge-mounted type	6	Repetitive motion type	5~25	M3x0.5
	8		5~40	
	10			M5x0.8
	12			
	16			

Needle type cylinder WCMCP series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Panel-mounted type Recessed type	4	Single-action type Double-acting Single-pole type	5~15 5~25 55~40
	6		
	10		
	16		

Needle type cylinder WCMCP2 series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Single-acting: Spring return type	4	Single-rod double-acting	5~15
	6		5~25
	10		5~40
	16		



Thin type cylinder WCD series



Type	Bore diameter (mm)	Action type	Travel distance (mm)		Takeover diameter	
			Repetitive motion			Single action
			Magnetic attachment	Non-magnetic		
Compound motion type Double shaft type Double shaft adjustable type Single motion extrusion type Single motion reference type	12	Single action press	5~50	5~60	M5x0.8	
	16					
	20	Single action draw type	5~90	5~100		
	25					
	32	Compound action type	5~120	5~130	G1/8	
	40					
	50					
	63				G1/4	



Thin type cylinder WCQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Compound motion type Double-axis type Double-axis adjustable type Single-motion push-out type Single-motion pull-out type	12	Single-action extrusion type Single-action reference type Double-action type	5~50	M5x0.8
	16		5~60	
	20/25		5~100	G1/8
	32/40			G1/4
	50/63			G3/8
	80/100		10~300	
	125			
	140			
160				



Thin type cylinder WCQ2/WCQ2W series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Overflow type Vacuum type	12/16	Repetitive motion type	5~30
	20/25		5~50
	32/40		5~100
	50/63		10~100
	80-100		

Compact cylinder WCE series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type	12/16	Single-action extrusion type Single-action reference type Repetitive motion type	5~50/75	M5x0.8
Single-action extrusion type	20		5~100	
Single-action reference type	25		5~150	
Double-action with guide rod type	32/40		5~200	G1/8
Double-shaft type	50/63		5~250	
Double-shaft with guide rod type	80		5~300	
Double-shaft adjustable type	100			
	125			G1/4

Thin type guide rod cylinder WTCQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type Double shaft type Double shaft adjustable type Single-action extrusion type Single-action reference type	12/16	Single-action extrusion type Single-action reference type Repetitive motion type	5~30	M5x0.8
	20/25		5~50	
	32/40		5~100	G1/8
	50/63		10~100	G1/4
	80/100			G3/4

Thin type guide rod cylinder - WCQM series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Through-hole type (standard) Both ends with threaded holes type	12	horizontal bar double-acting type	5~30
	16		5~50
	20		
	25		5~100
	32		
	40		10~100
	50		

Compact type guide rod cylinder - WDQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Standard type	6	Single-acting (double-rod cylinder)	5~30
	10		
	12		
	16		5~50
	20		
	25		
	32		5~100
	40		
	50		
	63		5~150
	80		
	100		
	125		5~100

Note: Those marked with indicate optional prohibited copper and zinc products.

Pencil-type cylinder

Pencil type cylinder WCPB series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type	4	Double- axis type Single-axis extrusion type Single-axis introduction type Repetitive motion type	5~20	Tube connection type8
Single-action extrusion type	6		10~60	M5x0.8
Single-action reference type	10		10~200	
Double-axis compound motion type	12			
Double-axis adjustable type	16			

Pencil-type cylinder WCPBR series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type Single-action extrusion type Single-action reference type	6	Single-screw extrusion type Single-screw introduction type Repetitive motion type	10~60	M5x0.8
	8		10~150	
	10		10~200	
	12			
	16			

Pencil-type cylinder WCMI series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type Double-acting cushion type	8	Single-axis extrusion type Single-axis introduction type Double-acting buffer type	10~150	M5x0.8
	10		10~200	
	12		10~250	
	16			
	20	10~500	G1/8	
	25		G3/4	
	32			
40				

WCMF Series Pencil Type Cylinders



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type Double-acting cushion type	20	Single-axis extrusion type Single-axis introduction type Double-acting buffer type	10~500	G1/8
	25			
	32			
	40			
				G1/4

Pencil-type cylinder, WCMA series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Repetitive motion type Double-acting buffer adjustable type Single-acting extrusion type Single-acting reference type Double-axis double-acting buffer adjustable type Double-axis double-acting stroke adjustable type	16	Single-axis extrusion type Single-axis introduction type Double-acting buffer type	5~20	M5x0.8
	20		10~5	G1/8
	25			
	32			
	40			

Pencil-type cylinder, WCMM2 series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type Rod side flange type Rodless side flange type Single ear type Double ear type Rod side ear shaft type Rodless side ear shaft type Integrated ear basic type Integrated ear type (90°) Flat end basic type Flat end rod side flange type Flat end rod side ear shaft type	20	Parallel bars (double-axis type)	25~300
	25		
	32		
	40		

Aluminum alloy pen-shaped cylinder WCMG series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Single-axis type Double-axis type Compound motion buffer type	20	Compound motion type Single motion type	10~200	G1/8
	25		10~300	
	32			
	40			

Stainless steel mini cylinder WCMJ2-Z series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type With protrusions on both sides Single side foot type Double side foot type Rod side flange type No rod side flange type	6	Double-acting type Single bar	15~60
	10		15~150
	16		15~200

Stainless steel mini cylinder WCMC85N series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Single-leg type Double-leg type Flange type Ear shaft type Ear ring type	8	Single-rod	10~100
	10		
	12		
	16	Double-acting	10~200
	20		
	25		
			10~300

Stainless steel mini cylinder WCMCM3 series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type With protrusions on both sides Double ear type Single side foot type Double side foot type Rod side flange type No rod side flange type	20	Single-rod Double-acting	15~60
	25		15~150
	32		15~200
	40		25~300

Aluminum alloy mini cylinder - WCML series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type	20	Compound motion type Single motion type	10~500	G1/8
	25			
	32			
	40			G1/4
	50			
	63			

Aluminum alloy mini cylinder WCMCG1-Z series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Basic type Axial foot type Rod side flange type Rod side flangeless type Rod side ear shaft type Ear ring type	20	Single-rod Double-acting	25~200	G1/8
	25		25~300	
	32			
	40			
	50			G1/4 G3/8 G1/2
	63			
	80			
	100			

Aluminum alloy mini cylinder WCMCG3-Z series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type Axial foot type Rod side flange type No rod side flange type Ear type	20	Single-rod Double-acting	25~200
	25		25~300
	32		
	40		
	50		
	63		
	80		
	100		

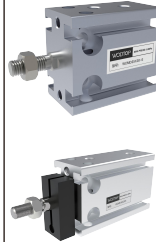


WCMU Series Small Free Installation Cylinders



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	4	Compound single-action extrusion type	4~20	M3x0.5
	6		4~30	
	8			
	10		5~50	M5x0.8
	12			
	16			
	20			

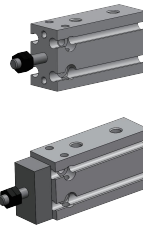
Multi-position fixed type cylinder WCMD/WCMK series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type Check rotation type	6	Compound motion type Single motion type	5~35	M5x0.8
	10		5~50	
	16		5~60	
	20			
	25			
32	G1/8			



Multi-position fixed type cylinder WCMDC/WCMDCK series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Double-axis type Double-axis adjustable type Check rotation type	6	Compound type Single type Single extrusion type Introducing type	5~35	M5x0.8
	10		5~50	
	16			
	20		5~60	
	25			
	32			G1/8

Multi-position fixed type cylinder WCMC series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Single-rod double-acting	6	Double-acting	5~30	M5x0.8
	10			
	16			
	20		5~50	G1/8
	25			
	32			

Multi-position fixed type cylinder WCMCK series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Non-rotating rod type Single-rod double-acting	6	Double-acting	5~30	M5x0.8
	10			
	16			
	20		5~50	G1/8
	25			
	32			

Multi-position fixed type cylinder WCMCJ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Basic type (through-hole type)	4	Double-acting type Single-acting type Single-acting type with spring return	4~20
	6		4~30
	8, 10		4, 6
	4		4, 6, 8
	6		4, 6, 8, 10
	8, 10		4, 6, 8, 10

Note: Those marked with indicate optional prohibited copper and zinc products.

TQR Series Rotary Joint



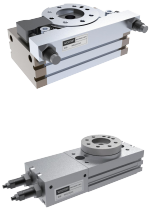
Type	Number of channels	Takeover diameter
Gap seal type	1	M5x0.8
	2	
	4	
	8	
	12	
	16	

Rotary cylinder WRQ/WRQB series



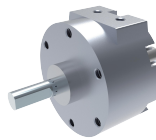
Type	Specification	Action type	The front end takes over the interface.	The back end takes over the interface.
Standard type	2	Repetitive motion type	M5x0.8	
	3			
	7			
	10/20			
	30/50		G1/8	M5x0.8
	70			
	100			
	200			

Rotary cylinder WRQL/WRQZ series



Type	Size	The front end takes over the interface.	Side takeover caliber
High-precision type Basic type	10	G1/8	M5x0.8
	20		
	30		
	50		

Blade-type swing cylinder WRCRB series



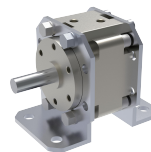
Type	Bore diameter (mm)	Drive form	Swing angle	Takeover diameter
Standard type	10	Single blade	90°, 180°	M5x0.8
	15			
	20			
	30	Double -bladed	90°, 100°	
	40			

Blade-type swing cylinder WRCRB2 series



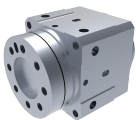
Type	Bore diameter (mm)	Drive form	Swing angle	Takeover diameter
Standard type	10	Single blade	90° 180° 270°	M3x0.5
	15			
	20			
	30	Double-bladed	90° 100°	M5x0.8
	40			

Blade-type swing cylinder WRCRB1 series



Type	Bore diameter (mm)	Drive form	Swing angle Standard type	Swing angle Quasi-standard	Takeover diameter
Standard type	50	Single blade	90° 180° 270°	90°	G1/8
	63				
	80				
	100	Double-bladed	90°	100°	G1/4

Blade-type swing cylinder WRMSU series



Type	moment N·m	Drive form	Swing angle	Takeover diameter side	Axial direction
High-precision type	1	Single blade	90° 180°	M3x0.5	M3x0.5
	3			M5x0.8	M5x0.8
	7				
	20				

Blade-type swing cylinder WRMSUB series



Type	moment N·m	Drive form	Swing angle	Takeover diameter	
				side	Axial direction
Standard type	1	Single blade	90° 180°	M3x0.5	M3x0.5
	3				
	7	Double -bladed	90°	M5x0.8	M5x0.8
	20				

Note: Those marked with indicate optional prohibited copper and zinc products.

Double-axis - triple-axis cylinder

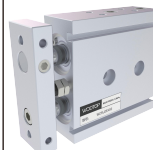
Double-axis cylinder WCNJ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	10	Repetitive motion type	10~100	M5x0.8
	16		10~200	
	20			
	25			
	32		G1/8	



Double-axis cylinder WCRJ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Repetitive motion type	10~50	M5x0.8
	10		10~100	
	16		10~200	
	20			
	25			
	32		G1/8	

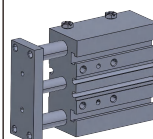
Three-axis cylinder WMGM series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Repetitive motion type	5~20	M3x0.5
	10		5~30	
	12		10~150	M5x0.8
	16		10~200	
	20/25		20~250	
	32/40		25~250	G1/8
	50/63			G1/4
	80/100			G3/8



Three-axis cylinder WMGM (S model) series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	32/40	Repetitive motion type	25~400	G1/4
	50/63			G3/8
	80/100			



Double-axis cylinder, WCSM/L S series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Standard type	6	Repetitive motion type	5~20
	10		5~30
	12		12~150
	16		10~200
	20		20~250
	25		
	32		25~250
	40		
	50		
	63		
	80		
	100		



Three-axis cylinder WCMGJ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Repetitive motion type	5~15	M3x0.5
	10		5~20	

Double Axis Cylinder WCTD Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Standard type	6	Double-acting type	10~50
	10		10~100
	16		10~250
	20		
	25		
	32		10~150
	40		

Rod-type pneumatic cylinder WCMGF series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Standard type	40	Double-acting type	30~100
	63		
	100		

Note: Those marked with indicate optional prohibited copper and zinc products.



Side-mounted linear guide slide cylinder WCHX series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Side rail type	6	Repetitive motion type	5~30	M5x0.8
	10		5~50	
	16		5~60	
	20			



Double linear guide rail slide cylinder WCHQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	6	Repetitive motion type	10~50	M5x0.8
	8		10~75	
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25			



Crossed-roller guide rail slide cylinder WCHS series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	6	Repetitive motion type	10~50	M5x0.8
	8		10~75	
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25			

Ultra-thin slide table cylinder WCHF series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Roller type	8	Repetitive motion type	10~30	M3x0.5
	12		10~50	M5x0.8
	16		10~100	
	20			



Overall guide rail slide table cylinder WCHXQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	6	Repetitive motion type	10~50	M5x0.8
	8		10~75	
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25			



WCHXS Series Cross-guide Rail Slide Cylinder with Enhanced Performance



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	6	Double-acting type	10~50	M3x0.5
	8		10~75	M5x0.8
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25		10~150	



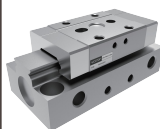
Heavy-duty guide rail slide table cylinder TCG series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	6	Double-acting type	10~50	M3x0.5
	8		10~75	M5x0.8
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25		10~150	



Integrated Miniature Linear Slide Cylinder - WCHG Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Repetitive motion type	5~10	M3x0.5
	10		5~20	M5x0.8
	16			
	20		5~25	

Note: Those marked with indicate optional prohibited copper and zinc products.

Linear guide cylinder

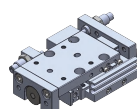
Micro-slide table cylinder, WCXJ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Symmetry type	4.5	reciprocal type	5,10	M3x0.5
	6		5,10,15	
	8		5,10,15,20	



Integrated slide cylinder - WMGA series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	4.5	Double-acting	5~10	M3x0.5
	6/8		5~30	
	10		5~50	
	12		10~80	M5x0.8
	16		10~100	
	20		10~125	
	25		10~150	
	32		10~150	G1/8



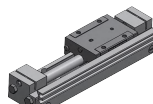
Platform guide rail slide table cylinder, WCMXW series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	8	reciprocal type	25~150	M5x0.8
	12		50~150	
	16		75~200	
	20		100~250	G1/8
	25		100~300	



Rodless guide rail slide cylinder WCHXY series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Double-acting	50~200	M5x0.8
	8		50~300	
	12		50~400	

TCG Series Sliding Table Cylinders



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Two-axis type	6	Double-acting	10~50	M3x0.5
	8		10~75	M5x0.8
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25			

WCHXS Series Sliding Table Cylinder



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	6	Double-acting	10~50	M3x0.5
	8		10~75	M5x0.8
	12		10~100	
	16		10~125	
	20		10~150	G1/8
	25			

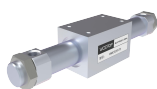
Linear guide cylinder WCHW series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	10	reciprocal type	25~100	M5x0.8
	16		25~200	
	20			
	25			
	32		G1/8	

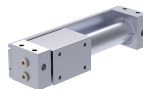
Note: Those marked with   indicate optional prohibited copper and zinc products.

Magnetic Coupling Rodless Cylinder / Basic Type WMCS Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	10	reciprocal type	50~300	M5x0.8
	16		50~500	
	20		50~1000	G1/8
	25			
	32			
	40			
				G1/4

Magnetic Coupling Rodless Cylinder / Direct Mount Type WMCD Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Sliding rail type	6	reciprocal type	50~200	M3x0.5
	10		50~300	M5x0.8
	15		50~500	
	20		100~800	G1/8
	25			
	32			
	40		100~1000	G1/4
	50/63			

Magnetic coupling rodless cylinder with guide rail on the side - WRMH series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Sliding rail type	10	reciprocal type	50~300	M5x0.8
	16		50~500	
	20		50~800	G1/8
	25			

Magnetic coupling rodless cylinder with guide rail on the bottom surface - WMCX series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Sliding rail type	10	reciprocal type	50~300	G1/4
	16		50~500	
	20			
	25		50~800	

Magnetic Coupling Rodless Cylinder / Copper Bushing Version WMCT Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Guide rod type	16	reciprocal type	50~500	M5x0.8
	20		50~800	G1/8
	25			
	32			
	40		50~1000	G1/4

Magnetic Coupling Rodless Cylinder / Bearing Version WMCL Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Guide rod type	10	reciprocal type	50~300	M5x0.8
	16		50~500	
	20		50~800	G1/8
	25			
	32			
	40		50~1000	G1/4

Magnetic coupling rodless cylinder WMCY3B series



Type	Bore diameter (mm)	Travel distance (mm)
Basic type	6	50~200
	10	50~300
	15	50~500
	20	100~800
	25	
	32	
	40	100~1000
	50/63	

Magnetic coupling rodless cylinder WMCY1S series



Type	Bore diameter (mm)	Travel distance (mm)
Slider type	6	50~200
	10	50~300
	15	50~500
	20	100~800
	25	
	32	
	40	100~1000

Mechanical coupling type rodless cylinder WMY1M series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Sliding bearing guide rail type	16	Double-acting	100~2000	M5x0.8
	20			
	25			
	32			G1/8
	40			G1/4
	50			G3/8
	63			

Mechanical coupling type rodless cylinder WMY1C series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Cam-following guide rail type	16	Double-acting	100~2000	M5x0.8
	20			
	25			
	32			G1/8
	40			G1/4
	50			G3/8
	63			

Mechanical coupling type rodless cylinder WMY1H series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Linear guide type	10	Double-acting	50~600	M5x0.8
	16			
	20			G1/8
	25			
	32			
	40			G1/4

Mechanical coupling type rodless cylinder WMY1HT series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
High-rigidity linear guide type	50	Double-acting	200~2000	G3/8
	63			

Mechanical coupling type rodless cylinder - WGPL series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	16	Double-acting	250~3000	M5x0.8
	25		250~5000	G1/8
	32			
	40			G1/4
	50			
	63			G3/8
	80			G1/2

Mechanical coupling type rodless cylinder WMY1B series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Basic type	10	Double-acting	1001~3000	M5x0.8
	16			
	20			
	25			G1/8
	32			
	40			G1/4
	50			
	63			G3/8
	80			
	100			G1/2

Mechanical coupling type rodless cylinder WMY3A/B series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Short standard type	16	Double-acting	100~2000	M5x0.8
	20			
	25			
	32			1/8
	40			1/4
	50			
	63			3/8

Magnetic coupling rodless cylinder WMCY1S series



Type	Bore diameter (mm)	Travel distance (mm)
Slider type	6	50~200
	10	50~300
	15	50~500
	20	100~800
	25	
	32	100~1000
	40	



Ball-type pneumatic fingers WFHZ2 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	Takeover diameter
Standard type	6	Compound motion type Single motion type	4	M3x0.5
	10		4	
	16		6	
	20		10	M5x0.8
	25		14	
	32		22	
	40		30	

Long-stroke ball type pneumatic fingers WFHZL2 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	Takeover diameter
Long stroke	10	Double-acting type Single-acting type (Normally open) Single-acting type (Normally closed)	8	M3x0.5
	16		12	
	20		18	M5x0.8
	25		22	

Ball type pneumatic fingers / with dust cover WFHZJ2 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	Takeover diameter
With dust cover	6	Double-acting type Single-acting type (Normally open) Single-acting type (Normally closed)	4	M3x0.5
	10		4	
	16		6	M5x0.8
	20		10	
	25		14	

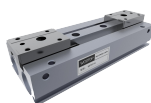
Thin-profile Parallel Pneumatic Gripper - WFD Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	8	Repetitive motion type	8 15 30	M3x0.5
	12		10 25 50	
	16		15 30 60	M5x0.8
	20		20 40 80	
	25		40 80	



Thin-profile parallel pneumatic fingers WFHF2 series



Type	Bore diameter (mm)	Action type
Standard type	8	Repetitive motion type
	12	
	16	
	20	
	25	
	32	



Large-bore pneumatic fingers WFT/WFHL2 series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	10	Repetitive motion type	20~60	
	16		30~80	M5x0.8
	20		40~100	
	25			
	32		60~150	G1/8

Pneumatic gripper WFHS2 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm
Parallel opening and closing type	16	Repetitive motion type	4
	20		4
	25		6
	32		8
	40		8
	50		12
	63		16

Pneumatic gripper WFHS3 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm
Parallel opening and closing type	16	Repetitive motion type	10
	20		10
	25		12
	32		16
	40		20
	50		28
	63		32
	80		40
	100		48
	125		63

Note: Those marked with indicate optional prohibited copper and zinc products.

Finger cylinder

Pneumatic gripper WFHS4 series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm
Parallel opening and closing type	16	Repetitive motion type	4
	20		4
	25		6
	32		8
	40		8
	50		12
	63		16

Pivot opening and closing pneumatic fingers, WFY series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm
Y-shaped	6	Repetitive motion type Single-acting normally open type	M3x0.5
	10		M5x0.8
	16		
	20		
	25		
	32		

180° Opening and Closing Pneumatic Finger WFHY2 Series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	
			Open the side	Closed side
180° opening and closing type	10	Repetitive motion type	180°	-3°
	16			
	20			
	25			

180° Opening and Closing Pneumatic Finger WFHW2 Series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	
			Open the side	Closed side
180° opening and closing type	20	Repetitive motion type	180°	-5°
	25			-6°
	32			-5°
	40			-5°
	50			-4°

Swing Pneumatic Gripper WFRHQ Series



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm
Parallel opening and closing type	10	Compound motion type Simple motion type	4
	16		6
	20		10
	25		14

WFHS Series High-Force Pneumatic Gripper



Type	Bore diameter (mm)	Action type	Opening and closing stroke mm	Takeover diameter
Standard type	16	Repetitive motion type	5	M3x0.5
	20		8	M5x0.8
	25		12	
	32		16	
	40		20	G1/8
	50		26	
	63		32	

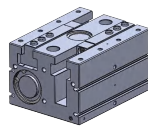
Magnetic attraction cylinder WFAG series



Type	Suction cup diameter mm	Action type	Takeover diameter
Standard type	30	Repetitive motion type	G1/8
	40		
	50		
	68		



Parallel Pneumatic Fingers TMHS Series



Type	Suction cup diameter mm	Action type	Takeover diameter
Standard type	25	Double-acting type	M5
	40		
	63		G1/8

Note: Those marked with indicate optional prohibited copper and zinc products.

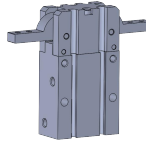


180° Opening and Closing Pneumatic Finger WFPS Series



Type	Bore diameter (mm)	Action type	Takeover diameter
Standard type	6	Repetitive motion type	M3x0.5
	10		
	16		
	20		M5x0.8
	25		G1/8
	35		

180° Opening and Closing Pneumatic Finger WFR Series



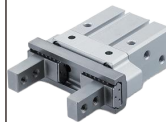
Type	Bore diameter (mm)	Action type	Takeover diameter
180° opening and closing type	10	Repetitive motion type	M5x0.8
	16		
	20		
	25		
	32		

Parallel Pneumatic Fingers, WFP Series



Type	Bore diameter (mm)	Action type	Takeover diameter
mechanical	16	Repetitive motion type Single-acting normally open type	M3x0.5
	20		M5x0.8
	25		
	32		
	40		

Parallel pneumatic fingers, JWFHZ2 series



Type	Bore diameter (mm)	Action type
Basic type	8	Double-acting type Single-acting type (Normally Open) Single-acting type (Normally Closed)
	12	
	16	
	20	

Note: Those marked with  indicate optional prohibited copper and zinc products.

Rotary clamping cylinder

Rotary clamping cylinder, WCK series



Type	Specification	Action type	Clamping stroke mm	Takeover diameter
Standard type	12	Repetitive motion type	10 20	M5x0.8
	16		10 20 30	
	20			
	25		10 20 30 50	G1/8
	32			G1/4
	40			
	50			
63				

Rotary clamping cylinder, WMK series



Type	Specification	Action type	Clamping stroke mm	Takeover diameter
Standard type Rodless side Flange type	12	Repetitive motion type	10 20 30	M5x0.8
	16			
	20			
	25	Repetitive motion type	10 20 30 50	G1/8
	32			G1/4
	40			
	50			
	63			

Planar rotary clamping cylinder WDK series



Type	Suction cup diameter mm	Action type	Clamping stroke mm	Takeover diameter
Standard type	20	Repetitive motion type	5	M5x0.8
	25			G1/8
	32			
	40			

Corner Cylinder WAK Series



Type	Suction cup diameter mm	Action type	Total journey distance	Takeover diameter
Standard type	25	Repetitive motion type	26	M5x0.8
	32		26	G1/8
	40		27	
	50		29	
	63		29	

360° Rotating Clamping Cylinder WHK Series



Type	Suction cup diameter mm	Action type	Clamping stroke mm	Takeover diameter
Standard type	25	Repetitive motion type	10,20	M5x0.8
	32			G1/8
	40			

WTK Series Planar Rotational Clamping Cylinder with Multiplied Force



Type	Suction cup diameter mm	Action type	Clamping stroke mm	Takeover diameter
Standard type	32	Repetitive motion type	5	M5x0.8
	40			G1/8
	50			

WCDL Series Lever Clamping Cylinder



Type	Suction cup diameter mm	Action type	Total journey distance	Takeover diameter
Standard type	25	Repetitive motion type	20	M5x0.8
	32		20	G1/8
	40		25	
	50		30	G1/4
	63		35	

Welding clamping cylinder WCK1 series



Type	Suction cup diameter mm	Travel distance mm
Steel belt installation type	40	50,75,100,125,150,200
	50	
	63	

Strong clamping cylinder TKC series



Type	Suction cup diameter mm	Open angle: °	Clamping arm type
Horizontal position, vertical position	40	10~135	A00/10/11/12 A50/51/52
	50	5~135	A00/10/11/12 A40/41/42 A90/91/92
	63		
	80		

Strong clamping cylinder TKH series



Type	Suction cup diameter mm	Open angle: °	Clamping arm type
Horizontal position, vertical position	40	30~110	A00/10/11/12 A50/51/52
	50	5~120	A00/10/11/12 A40/41/42 A90/91/92
	63		
	80		

Single-pin telescopic cylinder TKP series



Drive type	Suction cup diameter mm	Pin type	Travel distance mm
Pneumatic	40 63	A00 A02	40 60
With manual function		A00	

Double-pin telescopic cylinder TKPD series



Drive type	Suction cup diameter mm	Pin type	Travel distance mm
Pneumatic	40 63	A13 A23	40 60

Manual double-pin telescopic cylinder TKPDH series



Drive type	Suction cup diameter mm	Pin type	Travel distance mm
With manual function	50	A13 A23	40 60

Base plate cylinder TKU series



Suction cup diameter mm	Drive type	Diameter mm
32 60	A B C	20~40

TKS Series Inverter Unit



Type	Suction cup diameter mm	Open angle: °	Clamping arm type
Horizontal position, vertical position	80	10~135	A01 A03 A10
	100		
	125		
	160		
	200		

Magnetic cylinder TKGB series



Suction cup diameter mm	Drive type	Signal type
Strong magnetic resistance type	25	P: PNP N: NPN
	32	
	40	
	50	

WNTQ Series Blocking Cylinders



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	20	Repetitive motion type	10~20	M5x0.8
	25			
	32	Single-action introduction type	20~30	G1/8
	40			
	50			

WNTG Series Buffer Cylinders



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	32	Repetitive motion type	10~20	G1/8
	40	Single-action introduction type	20~30	
	50			

Blocking cylinder WNTH, WNTM series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter	
WNTH Series: Standard type	20	Repetitive motion type	15	M5x0.8	
	25		Single-action introduction type	20	G1/8
	32				
	40	30		G1/4	
	50				
	63		40	G1/4	
	80				

Blocking cylinder WNTH, WNTM series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
WNTM Series: Standard type	50	Repetitive motion type	30	G1/8
		Single-action introduction type		

WNRSQ Series Retainer Cylinder



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type Two-hole type at both ends	16	Repetitive motion type Single-action type Double-action spring type Single-action spring Ejection type	10,15	M5x0.8
	20		10,15,20	G1/8
	32			
	40		20,25,30	
	50			

WNRSQ Series Retainer Cylinder



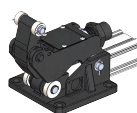
Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	40	Repetitive motion type Single-action type	20, 25, 30	G1/8
	50			

Blocking cylinder WNRSQ/WNRS2H series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Overload type	20	Repetitive motion type Single-action type	15	M5x0.8
	32		20	
	50	Double-action built-in	30	G1/8
	63	Spring type Single-action spring Ejection type	30	
	80		40	G1/4

Heavy-duty blocking cylinder, WNDAQ series



Type	Bore diameter (mm)	Action type	Travel distance (mm)	Takeover diameter
Standard type	32	Double-acting type	40	G1/8
	50		50	G1/4
	63			

Blocking cylinder

Blocking cylinder WNMIS, WNMIW series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
WNMIS Series: Single-finger Type	8	Repetitive motion type	10,20
	12		10,20,30
	20		
	25		30,50
	32		

Blocking cylinder WNMIS, WNMIW series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
WNMIW Series: Double-finger Type	8	Repetitive motion type	8
	12		12
	20		20
	25		25
	32		32

WNRSQ-Z Series Cylinder for Blocking



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Installation height Fixed type	16	Double-acting Single-acting	10 15
	20		10 15 20
	32		
	40		20 25 30
	50		

Blade Cylinder TMVS Series



Type	Bore diameter (mm)	Action type	Travel distance (mm)
Standard type	6	Repetitive motion type	10
	10		15

Standard type gas-liquid booster cylinder
BTA series



Type	Bore diameter (mm)	Pumping stroke mm	Total travel mm	Total output T
Standard type	63	5~50	50~500	1~200
	80			
	100			
	125			
	150			
	160			
	180			
	200			

Standard type gas-liquid booster cylinder
BTA series



Type	Bore diameter (mm)	Pumping stroke mm	Total travel mm	Total output T
Standard type	220	5~50	50~500	1~200
	250			

Horizontal Installation Type Gas-Liquid
Booster Cylinder BTA-A Series



Type	Bore diameter (mm)	Pumping stroke mm	Total travel mm	Total output T
Horizontal installation type	63	5~30	50~300	1~40
	80			
	100			
	125			
	150			
	160			
	250			

BTF Series Rapid Gas-Liquid Booster
Cylinder



Type	Bore diameter (mm)	Pumping stroke mm	Total travel mm	Total output T
Fast type	80	5~30	50~300	1~40
	100			
	125			
	160			
	200			

Adjustable Boost Stroke Pneumatic
Hydraulic Cylinder - BTU Series



Type	Bore diameter (mm)	Pumping stroke mm	Total travel mm	Total output T
Adjustable supercharging stroke type	63	5~20	50~300	1~50
	80			
	100			
	125			
	150			
	160			

I-joint



Category	Thread specification	
I	M3	M8,M10,M12
	M4	M14,M16,M18 M20,M22,M26
	M5	
	M6	M27,M36,M42

Y connector



Category	Thread specification	
Y	M3	M8,M10,M12
	M4	M14,M16,M18 M20,M22,M26
	M5	
	M6	M27,M36,M42

Floating joint



Category	Thread specification	
F	M3	M8,M10,M12
	M4	M14,M16,M18 M20,M22,M26
	M5	
	M6	M27,M36

Fish-eye connector



Category	Thread specification	
U	M4	M14,M16 M18,M20,M26
	M5	
	M6	M27,M36
	M10,M12	

Magnetic switch



Model number	Wiring method	Output contact form
DMS	2-wire system	Normally open type NPN type PNP type
	3-wire system	
CMS	2-wire system	Normally open type

High-field-resistant magnetic switch



Model number	Wiring method	Output contact form
QMSH	2-wire system	Normally open type

Note: Those marked with indicate optional prohibited copper and zinc products.

Three-piece GTC Series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GTC200	G1/8,G1/4	1000	Differential pressure + manual drainage type automatic drainage type
GTC300	G1/4,G3/8,G1/2	2500	
GTC400	G3/8,G1/2	4000	
GTC500	G3/4	5000	
GTC600	G3/4,G1	8000	

Two-piece GTFC series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GTFC200	G1/8,G1/4	1000	Differential pressure + manual drainage type automatic drainage type
GTFC300	G1/4,G3/8,G1/2	2500	
GTFC400	G3/8,G1/2	4000	
GTFC500	G3/4	4500	
GTFC600	G3/4,G1	8000	

Pressure regulating filter GTFR series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GTFR200	G1/8,G1/4	1000	Differential pressure + manual drainage type automatic drainage type
GTFR300	G1/4,G3/8,G1/2	2500	
GTFR400	G3/8,G1/2	4000	
GTFR500	G3/4	5000	
GTFR600	G3/4,G1	10000	

GTF Series Filter



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GTF200	G1/8,G1/4	1500	Differential pressure + manual drainage type automatic drainage type
GTF300	G1/4,G3/8,G1/2	3000	
GTF400	G3/8,G1/2	4000	
GTF600	G3/4,G1	10000	
GTF500	G3/4	4500	

Pressure Regulating Valve GTR Series



Model	Interface pipe diameter	Maximum processing flow L/min
GTR200	G1/8,G1/4	1000
GTR300	G1/4,G3/8,G1/2	3000
GTR400	G3/8,G1/2	6000
GTR500	G3/4	5000
GTR600	G3/4,G1	10000

GTL series fuel injector



Model	Interface pipe diameter	Maximum processing flow L/min
GTL200	G1/8,G1/4	2500
GTL300	G1/4,G3/8,G1/2	4500
GTL400	G3/8,G1/2	8000
GTL500	G3/4	3500
GTL600	G3/4,G1	12000

Oil Mist Separator GDF Series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GDF200	G1/8,G1/4	750	Differential pressure + manual drainage type automatic drainage type
GDF300	G1/4,G3/8	2000	
GDF400	G3/8,G1/2	3500	

Precision Pressure Regulating Valve GDR Series



Model	Interface pipe diameter	Pressure gauge connection diameter
GDR200	G1/8	G1/8
GDR300	G1/4	
GDR400	G1/4,G3/8,G1/2	

Pressure regulating precision filter GDFR series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
GDFR200	G1/8,G1/4	700	Differential pressure + manual drainage type automatic drainage type
GDFR300	G1/4,G3/8	1100	
GDFR400	G3/8,G1/2	2000	

Three-piece set: TAC series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TAC1500	G1/8,G1/4	650	Differential pressure drainage type Manual drainage type
TAC2000	G1/4,G3/8,G1/2		

TBC series three-piece set



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TBC2000	G1/4	1300	Differential pressure + manual drainage type automatic drainage type
TBC3000	G3/8		

Two-piece TAFC series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TAFC1500	G1/8	650	Differential pressure drainage type Manual drainage type
TAFC2000	G1/4		
TAFC3000	G3/8		

Two-piece TBFC series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TBFC2000	G1/8,G1/4	1300	Differential pressure + manual drainage type automatic drainage type
TBFC3000	G1/4,G3/8,G1/2		
TBFC1500	G1/8		

Pressure regulating filter TAFR series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TAFR1500	G1/8	650	Differential pressure drainage type Manual drainage type
TAFR2000	G1/4		

Pressure regulating filter TBFR series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TBFR2000	G1/4	1300	Differential pressure + manual drainage type automatic drainage type
TBFR3000	G3/8		

TAF series filter



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TAF1500	G1/8	650	Differential pressure drainage type
TAF2000	G1/4		Manual drainage type

Filter TBF series



Model	Interface pipe diameter	Maximum processing flow L/min	Drainage method
TBF2000	G1/4	1300	Differential pressure + manual drainage type
TBF3000	G3/8		automatic drainage type

Pressure regulating valve TAR series



Model	Interface pipe diameter	Maximum processing flow L/min
TAR1500	G1/8	650
TAR2000	G1/4	

Regulating valve TBR series



Model	Interface pipe diameter	Maximum processing flow L/min
TBR2000	G1/4	1300
TBR3000	G3/8	

TAL series fuel injector



Model	Interface pipe diameter	Maximum processing flow L/min
TAL1500	G1/8	600
TAL2000	G1/4	

Fuel Injector TBL Series



Model	Interface pipe diameter	Maximum processing flow L/min
TBL2000	G1/4	1250
TBL3000	G3/8	

Pressure regulating valve TSR series



Model	Interface pipe diameter	Maximum processing flow L/min
TSR200	G1/8 G1/4	800
TSR200L		

Pressure Regulating Valve TSDR Series



Model	Interface pipe diameter	Maximum processing flow L/min
TSDR100	M5 G1/8	200
TSDR200	G1/8 G1/4	400

Three-piece set GC series



Model	Interface pipe diameter	Drainage method
GC10	M5	Manual drainage type Float type automatic drainage
GC20	G1/8,G1/4	
GC25	G1/4,G3/8	
GC30	G1/4,G3/8	
GC40	G1/4,G3/8,G1/2,G3/4	

Two-piece GC-A series



Model	Interface pipe diameter	Drainage method
GC10A	M5	Manual drainage type Float type automatic drainage
GC20A	G1/8,G1/4	
GC30A	G1/4,G3/8	
GC40A	G1/4,G3/8,G1/2,G3/4	

Pressure regulating filter GW series



Model	Interface pipe diameter	Drainage method
GW20-B	G1/8,G1/4	Manual drainage type Float type automatic drainage
GW30-B	G1/4,G3/8	
GW40-B	G1/4,G3/8,G1/2	
GW60-B	G3/4,G1	

GF Series Filter



Model	Interface pipe diameter	Drainage method
GF10-A	M5x0.8	Manual drainage type Float type automatic drainage
GF20-A	G1/8,G1/4	
GF30-A	G1/4,G3/8	
GF40-A	G1/4,G3/8,G1/2	
GF50-A	G3/4,G1	
GF60-A	G1	

Pressure Regulating Valve GR Series



Model	Interface pipe diameter
GR20-B	G1/8,G1/4
GR25-B	G1/4,G3/8
GR30-B	G1/4,G3/8
GR40-B	G1/4,G3/8,G1/2,G3/4
GR50-B	G3/4,G1
GR60-B	G1

Fuel injector GPFM series



Model	Interface pipe diameter
GPFM20-A	G1/8,G1/4
GPFM30-A	G1/4,G3/8
GPFM40-A	G1/4,G3/8,G1/2,

Relief Valve VJHS Series



Model	Interface pipe diameter
VJHS20	G1/8,G1/4
VJHS30	G1/4,G3/8
VJHS40	G1/4,G3/8,G1/2
VJHS50	G3/4,G1

Pressure reducing valve GRM5 series



Type	Pressure relief valve structure	Compression method	Pressure range (standard) MPa
Modular	Direct acting type	Piston type	0.05~0.7



Digital Pressure Switch PDS Series



Model	Interface pipe diameter	Output type	Pressure range (kPa)
PDS	G1/8 (inner tooth M5)	Voltage category (1~5V) Current type (4~20mA)	-100 ~ 100 -100 ~ 1000



Digital Pressure Switch PISE20A/PZSE20A(F) Series



Model	Interface pipe diameter	Output type	Pressure range (kPa)
PISE20A	R1/8	Voltage category (0.6~5V) Current type (2.4~20mA)	-0.1~1MPa
PZSE20A		Voltage category (1~5V) Current type (4~20mA)	0~101kPa
PZSE20A(F)			-100~100kPa



Digital Pressure Switch PISE30A/PZSE30A(F) Series



Model	Interface pipe diameter	Output type	Pressure range (kPa)
PISE30A	R1/8 ø4mm ø6mm	Voltage category (0.6~5V) Current type (2.4~20mA)	-0.1~1MPa
PZSE30A		Voltage category (1~5V) Current type (4~20mA)	0~101kPa
PZSE30A(F)			-100~100kPa



Digital Pressure Switch PISE40A/PZSE40A(F) Series



Model	Interface pipe diameter	Output type	Pressure range (kPa)
PISE40A	R1/8 M5x0.8 ø4mm ø6mm	Voltage category (0.6~5V) Current type (2.4~20mA)	-0.1~1MPa
PZSE40A		Voltage category (1~5V) Current type (4~20mA)	0~101kPa
PZSE40A(F)			-100~100kPa

Pressure gauge TG series



Model	Interface pipe diameter	Output type	Pressure range (kPa)
TG	G1/8 G1/4	Standard type	0~1.0MPa (Standard Type)
		Panel type Embedded type	0~0.4MPa (Low Pressure Type)



Flow switch CMPF2A series



Model	Interface pipe diameter	Pressure range (kPa)
CMPF2A	Rc1/8 Rc1/4	-50kPa~0.5MPa
	Rc3/8 Rc1/2	-50kPa~0.5MPa

Note: Those marked with indicate optional prohibited copper and zinc products.

Solenoid valve VKA series



Model	Interface pipe diameter	Control method	Standard voltage	Connection method
		2 positions and 3 connections		
VKA100	M5 G1/8	Single electrical control Dual electrical control	AC220V	DIN socket type Outgoing type
VKA200	G1/8 G1/4		DC24V	
VKA300	G1/4 G3/8		AC110V AC24V DC12V	

Electromagnetic Valve VKB Series



Model	Interface pipe diameter	Control method		Standard voltage
		2-way 5-pole	3 positions and 5 connections	
VKB100	M5 G1/8	Single electrical control Dual electrical control	Dual electric control Mid-sealed type	AC220V DC24V AC110V AC24V DC12V
VKB200	G1/8 G1/4		Dual electric control Mid-sealed type	
VKB300	G1/4 G3/8		Dual electric control Mid-exhaust type	
VKB400	G1/2		Dual electric control Mid-pressure type	

Electromagnetic valve VKC series



Model	Interface pipe diameter	Control method		Standard voltage	Connection method
		2-way 5-pole	3 positions and 5 connections		
VKC100	M5 G1/8	Single electrical control Dual electrical control	Dual electric control Mid-sealed type	AC220V DC24V AC110V AC24V DC12V	DIN Socket type Lead out type
VKC200	G1/8 G1/4		Dual electric control Mid-sealed type		
VKC300	G1/4 G3/8		Dual electric control Mid-exhaust type		
VKC400	G1/2		Dual electric control Mid-pressure type		

Electromagnetic Valve VKY Series



Model	Interface pipe diameter	Control method		Standard voltage	Connection method
		2-way 5-pole	3 positions and 5 connections		
VKY3	M5x0.8	Single electrical control Dual electrical control	Dual electric control Mid-sealed type	AC220V DC24V AC110V DC12V	DIN socket type
VKY5	G1/8		Dual electric control Mid-sealed type		
VKY7	G1/4		Dual electric control Mid-exhaust type		
			Dual electric control Mid-pressure type		

Solenoid valve VPT series



Model	Interface pipe diameter	Control method	Standard voltage	Connection method
		2 positions and 3 connections		
VPT	G1/8 G1/4	Single electronic control	DC24V	DIN socket type Outgoing type

Pneumatic Control Valve VPA Series



Model	Interface pipe diameter	Control method
		2 positions and 3 connections
VPA100	M5 G1/8	Single gas control Double gas control
VPA200	G1/8 G1/4	
VPA300	G1/4 G3/8	

Pneumatic Control Valve VPC Series



Model	Interface pipe diameter	Control method	
		2-way 5-pole	3 positions and 5 connections
VPC100	M5 G1/8	Single gas control Double gas control	Dual gas control Mid-sealed type
VPC200	G1/8 G1/4		Dual gas control Mid-sealed type
VPC300	G1/4 G3/8		Dual gas control Mid-exhaust type
VPC400	G1/2		Dual gas control Mid-pressure type

Manual Valve VSB Series



Model	Interface pipe diameter	Position number	
		2-way 5-pole	3 positions and 5 connections
VSB200	G1/8 G1/4	2-way 5-pole	3 positions and 5 connections
VSB300	G1/4		Median Closed Type
VSBA200	G1/4 G3/8		Median Closed Type
VSBA300	G1/4 G3/8		Exhaust Type

Hand-pulled valve VPL series



Model	Interface pipe diameter	Position number
VPL100	G1/8	2 positions and 3 connections
VPL200	G1/8 G1/4	
VPL300	G1/4 G3/8	

Hand-pulled valve VPLA series



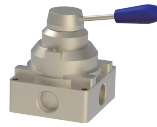
Model	Interface pipe diameter	Position number
VPLA100	G1/8	2-way 5-pole
VPLA200	G1/8 G1/4	
VPLA300	G1/4 G3/8	

Slip valve VSS series



Model	Interface pipe diameter	Installation form
VSS06	G1/8	Standard type Double external tooth type Double internal tooth type External and internal tooth type
VSS08	G1/4	
VSS10	G3/8	
VSS15	G1/2	
VSS20	G3/4	
VSS25	G1	

Hand-operated valve VPHV series



Model	Interface pipe diameter	Position number
VPHV2	G1/8 G1/4	2-way 4-pole 3-way 4-pole
VPHV3	G1/4 G3/8	
VPHV4	G1/2 G3/4	

Mechanical Valve VSG Series



Optional type	Interface pipe diameter	Position number
Basic type	M5 G1/8 G1/4	2 positions and 3 connections
Long handle type		
Short handle type		
Vertical roller type		
Wheel lever type		
Single-direction roller lever type		
Boom type		
Mushroom head button type		

Mechanical Valve VSG Series



Optional type	Interface pipe diameter	Position number
Convex head button type	M5 G1/8 G1/4	2 positions and 3 connections
Flat button type		
Stop rotating button type		
Choice type		

Mechanical Valve VPM Series



Optional type	Interface pipe diameter	Position number
Basic model	G1/8 G1/4	2 positions and 3 connections
Long-handled type		
Short-handled type		
Roller lever type		
One-way roller lever type		
Boom type		
Mushroom head button type		
Convex head button type		

Mechanical Valve VPM Series



Optional type	Interface pipe diameter	Position number
Flat button type	G1/8 G1/4	2 positions and 3 connections
Stop rotating button type		
Choice type		

Mechanical Valve VPME Series



Optional type	Interface pipe diameter	Position number
Basic type	G1/8 G1/4	2-way 5-pole
Long handle type		
Short handle type		
Wheel lever type		
One-way roller lever type		
Boom Type		
Mushroom head button type		
Convex button type		

Mechanical Valve VPME Series



Optional type	Interface pipe diameter	Position number
Flat button type	G1/8 G1/4	2-way 5-pole
Stop rotating button type		
Choice type		

Mechanical Valve VPZC Series



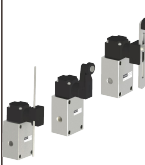
Optional type	Interface pipe diameter	Position number
Basic model	M5 G1/8 G1/4	2 positions and 3 connections
Vertical roller type		
Roller lever type		3 positions and 5 connections
One-way roller lever type		
Boom type		
Mushroom head button type		
Mushroom head button type (with protective cover)		
Large mushroom head button type (with protective cover)		

Mechanical Valve VPZC Series



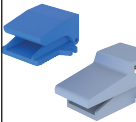
Optional type	Interface pipe diameter	Position number
Convex head button type	M5 G1/8 G1/4	2 positions and 3 connections
Flat head button type		
Stop rotating button type		3 positions and 5 connections
Optional		
Dual-action selectable type		

Mechanical Valve VPZZ Series



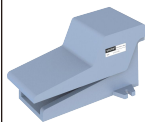
Optional type	Interface pipe diameter	Position number
Wheel lever type	G1/8	2 positions and 3 connections
Adjustable roller lever type		
Adjustable type touch probe		

Foot valve VF series



Optional type	Interface pipe diameter	Position number
VFM210	M5 G1/8 G1/4	2-way 3-port (mini type)
VF210	G1/8 G1/4	2 positions and 3 connections
VF210	G1/4	2-way 5-pole

Foot valve VFG series



Optional type	Interface pipe diameter	Position number
VFG210	G1/4	2-way 5-pole

One-way throttle valve VPSC series



Optional type	Interface pipe diameter
VPSC100	G1/8
VPSC200	G1/4
VPSC300	G3/8 G1/2

Fluid control valve LS series



Type	Pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct acting normally closed type	Ultra-high pressure type	G1/8	AC220V	DIN socket type Outgoing line type
	High pressure type	G1/4	DC24V	
	Standard type	G3/8	AC110V	
	Large flow type	G3/8	AC24V	
	Super high flow type	G1/2	DC12V	

Fluid Control Valve LKS Series



Type	pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct-acting normally open type	Ultra-high pressure type	G1/8	AC220V	DIN socket type Outgoing line type
	High pressure type	G1/4	DC24V	
	Standard type	G3/8	AC110V	
	Large flow type	G3/8	AC24V	
		G1/2	DC12V	

Fluid control valve LW series



Type	pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct acting normally closed type	Ultra-high pressure type	G1/8	AC220V	DIN socket type Outgoing line type
	High pressure type	G1/4	DC24V	
	Standard type	G3/8	AC110V	
	Large flow type	G3/8	AC24V	
	Super high flow type	G1/2	DC12V	

Fluid control valve LW series



Type	Nominal diameter	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Pilot Normally Closed Type	ø15mm	G1/2	AC220V	DIN socket type Outgoing line type
	ø20mm	G3/4	DC24V	
	ø25mm	G1	AC110V	
			AC24V	
			DC12V	

Fluid Control Valve LKW Series



Type	pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct-acting normally open type	Ultra-high pressure type	G1/8	AC220V	DIN socket type Outgoing line type
	High pressure type	G1/4	DC24V	
	Standard type	G3/8	AC110V	
	Large flow type	G3/8	AC24V	
		G1/2	DC12V	

Fluid Control Valve LKW Series



Type	Nominal diameter	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Pilot Open Type	ø15mm	G1/2	AC220V	DIN socket type Outgoing line type
	ø20mm	G3/4	DC24V	
	ø25mm	G1	AC110V	
			AC24V	
			DC12V	

Fluid control valve LL series



Type	pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct acting normally closed type	High pressure type Standard type	G1/8	AC220V	DIN socket type Outgoing line type
		G1/4	DC24V	
		G3/8	AC110V	
		G3/8	AC24V	
		G1/2	DC12V	

Fluid Control Valve LKL Series



Type	pressure conditions	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct-acting normally open type	High pressure type Standard type	G1/8	AC220V	DIN socket type Outgoing line type
		G1/4	DC24V	
		G3/8	AC110V	
		G3/8	AC24V	
		G1/2	DC12V	

Fluid control valve LV series



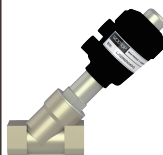
Type	Nominal diameter	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Directly operated normally closed type	ø2.5mm	G1/8 G1/4	AC220V DC24V	DIN socket type Outgoing line type
2 positions and 2 connections Pilot Normally Closed Type	ø13mm ø25mm	G3/8 G1/2 G3/4 G1	AC110V AC24V DC12V	

Fluid control valve LP series



Type	Nominal diameter	Interface pipe diameter	Standard voltage	Connection method
2 positions and 2 connections Direct acting normally closed type	ø2.5mm	G1/8 G1/4	AC220V DC24V AC110V AC24V DC12V	outlet type

Angle seat valve LJ series



Type	Initial state	Nominal diameter	Interface pipe diameter
2 positions and 2 connections Pneumatic control angle seat valve	Normally closed and water hammer type Normally closed with water hammer type Normally open type	ø15mm ø20mm ø25mm ø32mm	G3/8 G1/2 G3/4 G1 G1 1/4



Electric proportional valve GBTV series



Type	Interface pipe diameter	Standard voltage	Pressure range (MPa)
GBTV1000	G1/8 G1/4	AC220V DC24V	0.1 0.5 0.9
GBTV2000	G1/4 G3/8	AC110V AC24V	
GBTV3000	G1/4 G3/8 G1/2	DC12V	

Pressure Relief Valve GCA Series



Type	Takeover caliber (Rc)	Pressure gauge connection diameter (Rc)
Manual operation type Pneumatic control type	1/4 3/8 1/2	1/8

Gas storage tank GCAT series



Type	Cylindrical volume	Safety valve pressure component
Condensate discharge valve	05L 10L 20L 38L	GCAT05A1 GCAT10A1 GCAT20A1 GCAT38A1

Note: Those marked with indicate optional prohibited copper and zinc products.

TACA Series Hydraulic Buffer



Model	External tooth of the main body	Itinerary mm
TACA08	M8	6
TACA10	M10	7
TACA12	M12	10,15
TACA14	M14	12,16,20
TACA16	M16	16,20,25

TACA Series Hydraulic Buffer



Model	External tooth of the main body	Itinerary mm
TACA20	M20	20,25,30,40
TACA25	M25	20,50
TACA27	M27	25,50
TACA33	M33	25,50
TACA36	M36	25,50

TACJ Series Hydraulic Buffer



Model	External tooth of the main body	Itinerary mm
TACJ10	M10	7
TACJ12	M12	10
TACJ14	M14	12
TACJ20	M20	20
TACJ25	M25	25,50

TACJ Series Hydraulic Buffer



Model	External tooth of the main body	Itinerary mm
TACJ27	M27	25,50
TACJ33	M33	25,50
TACJ36	M36	25,50
TACJ42	M42	25,50,75

TPC Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Threaded straight-through	4mm 6mm 8mm 10mm 12mm	M5x0.8	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling TPOC Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Round thread straight through	4mm 6mm 8mm 10mm 12mm	M5x0.8	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

TPL Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped threaded two-way fitting	4mm 6mm 8mm 10mm 12mm	M5x0.8	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling TPLL Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped extended thread two-way fitting	4mm 6mm 8mm 10mm 12mm	M5x0.8	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling TPCF Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread straight-through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

TPMF Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread through plate direct connection	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

TPLF Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped internal thread two-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

TPH Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Hexagon socket elbow joint	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

Quick Coupling TPHF Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Series elbow joint	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

TPHW Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded three-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

Quick Coupling TPKD Series



Type	Interface pipe diameter I	Interface pipe diameter II	Connecting threads
Reducing threaded five-way fitting	ø6mm	ø4mm	PT1/8
	ø8mm	ø6mm	PT1/4
	ø10mm	ø8mm	PT3/8

Quick Coupling TPEB Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-shaped right-hand thread Tee fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm ø10mm ø12mm

Quick Coupling TPYB Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Y-type threaded tee fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

TPED Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-shaped side thread Three-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling TPZB Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Cross thread Four-way connector	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling PC2H Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Threaded straight-through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2 PT3/4	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling PC2H G Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Threaded straight-through	ø4mm	G1/8 G1/4 G3/8 G1/2	ø4mm
	ø6mm		ø6mm
	ø8mm		ø8mm
	ø10mm		ø10mm
	ø12mm		ø12mm

PC2S Series Quick Couplings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Round thread straight through	ø4mm	M5x0.8 M6 M8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling PC2F Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread straight-through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling PC2E Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread through plate direct connection	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8 PT1/4 PT3/8 PT1/2	ø4mm
	ø10mm		ø6mm
	ø12mm		ø8mm

Quick Coupling PL2L Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped thread Two-way connector	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm	M5x0.8	ø4mm ø6mm ø8mm
		PT1/8 PT1/4 PT3/8 PT1/2 PT3/4	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm

Quick Coupling PL2LG Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm	G1/8 G1/4 G3/8 G1/2	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm

Quick Coupling PL2W Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped extended thread tee fitting	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm	M5x0.8	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm

Quick Coupling PL2LF Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped extended thread tee fitting	ø4mm ø6mm ø8mm ø10mm ø12mm	M5x0.8 M6x1.0	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick Coupling PF2V Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Hexagon socket elbow joint	ø4mm ø6mm ø8mm ø10mm ø12mm	M3x0.5 M5x0.8	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick Coupling PP2Z Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Double universal joint Elbow joint	ø4mm ø6mm ø8mm ø10mm ø12mm	M5x0.8 M6x1.0	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick Coupling PP2LU Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Double pipe elbow	ø4mm ø6mm ø8mm ø10mm ø12mm	M5x0.8 M6x1.0	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick Coupling PJ2D Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Two vertical pipes joined directly	ø4mm ø6mm ø8mm ø10mm ø12mm	M5x0.8 M6x1.0	ø4mm ø6mm
		PT1/8 PT1/4 PT3/8 PT1/2	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick Coupling PY2U Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Y-type threaded tee fitting	4mm 6mm 8mm 10mm 12mm	M5x0.8 M6x1.0	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling PT2T Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-shaped right-hand thread tee fitting	4mm 6mm 8mm 10mm 12mm 16mm	M5x0.8 M6x1.0	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm 16mm

Quick Coupling PT2Y Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-shaped side-threaded tee fitting	4mm 6mm 8mm 10mm 12mm	M5x0.8 M6x1.0	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling PY2UD Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Four-pipe Y-shaped joint	4mm 6mm 8mm 10mm	M5x0.8	4mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm

Quick Coupling PP2XD Series



Type	Interface pipe diameter I	Interface pipe diameter II
Four-tube Y-shaped connector for intubation	4mm 6mm 8mm 10mm	6mm 8mm 10mm 12mm

Quick Coupling PY2U Series



Type	Interface pipe diameter I	Interface pipe diameter II
Y-shaped connector for intubation	4mm 6mm 8mm 10mm 12mm	4mm 6mm 8mm 10mm 12mm

Quick Coupling PY2X Series



Type	Interface pipe diameter I	Interface pipe diameter II
Y-shaped reducer with pipe insertion	4mm 6mm 8mm 10mm	6mm 8mm 10mm 12mm

Quick Coupling PF2VF Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded three-way fitting	4mm 6mm 8mm 10mm 12mm	M3x0.5 M5x0.8	4mm 6mm
		PT1/8 PT1/4 PT3/8 PT1/2	4mm 6mm 8mm 10mm 12mm

Quick Coupling PP2ZF Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Double-tube universal joint with internal and external threads	ø4mm	M3x0.5	ø4mm
	ø6mm	M5x0.8	ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Quick Coupling PF2VS Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Hexagon socket elbow joint	ø4mm	M3x0.5	ø4mm
	ø6mm	M5x0.8	ø6mm
	ø8mm	M6x1.0	ø6mm
	ø10mm	PT1/8	ø4mm
	ø12mm	PT1/4	ø6mm
		PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Quick Coupling PP2ZS Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Double universal joint with internal hexagonal hole	ø4mm	M3x0.5	ø4mm
	ø6mm	M5x0.8	ø6mm
	ø8mm	M6x1.0	ø6mm
	ø10mm	PT1/8	ø4mm
	ø12mm	PT1/4	ø6mm
		PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Quick Coupling PF2VD Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded three-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Quick Coupling PP2VT Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded four-way fitting	ø4mm	PT1/8	ø4mm
	ø6mm	PT1/4	ø6mm
	ø8mm	PT3/8	ø8mm
	ø10mm	PT1/2	ø10mm
	ø12mm		ø12mm

Quick Coupling PP2ZD Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded five-way connector	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Quick Coupling PP2ZT Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
F-type threaded seven-way connector	ø4mm	PT1/8	ø4mm
	ø6mm	PT1/4	ø6mm
	ø8mm	PT3/8	ø8mm
	ø10mm	PT1/2	ø10mm
	ø12mm		ø12mm

Quick intubation TPE series



Type	Interface pipe diameter
T-type three-way fitting	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm
	ø16mm

Quick intubation TPU series



Type	Interface pipe diameter
Direct access	ø4mm ø6mm ø8mm ø10mm ø12mm ø16mm

Quick intubation TPY series



Type	Interface pipe diameter
Y-type three-way fitting	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick intubation TPM series



Type	Interface pipe diameter
Through plate direct connection	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick intubation TPV series



Type	Interface pipe diameter
L-shaped two-way valve	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick intubation TPLM series



Type	Interface pipe diameter
Right-angle through-hole plate	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick intubation TPY/TPYW series



Type	Interface pipe diameter I	Interface pipe diameter II
Y-type three-way fitting	ø6mm ø8mm ø10mm ø12mm	ø4mm ø6mm ø8mm ø10mm

Quick intubation TPEG series



Type	Interface pipe diameter I	Interface pipe diameter II
T-shaped positive reducing tee	ø6mm ø8mm ø10mm ø12mm	ø4mm ø6mm ø8mm ø10mm

Quick intubation TPZ series



Type	Interface pipe diameter
Crossroads	ø4mm ø6mm ø8mm ø10mm ø12mm

Quick intubation TPEW series



Type	Interface pipe diameter I	Interface pipe diameter II
T-shaped side reducing tee	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø10mm

Quick intubation TPG series



Type	Interface pipe diameter I	Interface pipe diameter II
Direct reduction and straight-through processing	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø10mm

Quick intubation TPP series



Type	Interface pipe diameter
Plug	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm

Quick intubation TPGJ series



Type	Interface pipe diameter I	Interface pipe diameter II
Plug rod reducing straight-through	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø10mm

Quick intubation TPZG series



Type	Interface pipe diameter I	Interface pipe diameter II
Cross-shaped reducing tee	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø10mm

Quick intubation TPHK series



Type	Interface pipe diameter I	Interface pipe diameter II
Adjustable diameter five-way fitting	ø8mm	ø6mm
	ø10mm	ø8mm

Quick intubation TPHD series



Type	Interface pipe diameter I	Interface pipe diameter II
Adjustable diameter five-way fitting	ø8mm	ø6mm
	ø10mm	ø8mm

Quick intubation TPK/TPKG series



Type	Interface pipe diameter I	Interface pipe diameter II
Five Connectivities	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm

Quick intubation PC2H series



Type	Interface pipe diameter I	Interface pipe diameter II
Direct reduction and straight-through processing	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

Quick intubation PL2L series



Type	Interface pipe diameter I	Interface pipe diameter II
L-shaped reducing tee	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm

Quick intubation PY2U series



Type	Interface pipe diameter I	Interface pipe diameter II
Y-shaped reducing tee	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

Quick intubation PT2T series



Type	Interface pipe diameter I	Interface pipe diameter II
T-shaped reducing tee	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

Quick intubation PP2LU series



Type	Interface pipe diameter
Double-tube elbow	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm

Quick intubation PJ2D series



Type	Interface pipe diameter
Three vertical pipes in direct connection	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm

Quick intubation PYQW series



Type	Interface pipe diameter I	Interface pipe diameter II
Y-shaped reducing five-way fitting	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
		ø12mm

Quick intubation PZ2TW series



Type	Interface pipe diameter
Crossroads	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm

Quick intubation PZ2TX series



Type	Interface pipe diameter I	Interface pipe diameter II
Cross-reducing four-way fitting	ø4mm	ø6mm
	ø6mm	ø8mm
	ø8mm	ø10mm
	ø10mm	ø12mm
	ø12mm	ø16mm

Quick intubation PZ2TY series



Type	Interface pipe diameter I	Interface pipe diameter II
Cross-shaped multi-stage reducing four-way fitting	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm

Quick intubation PJ2C series



Type	Interface pipe diameter
Pipe cap	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm
	ø16mm

Quick intubation PC2R series



Type	Interface pipe diameter I	Interface pipe diameter II
Plug rod diameter reduction straight-through	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

Quick intubation PJ2P series



Type	Interface pipe diameter
Pipe plug	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm
	ø16mm

Quick intubation PC2E series



Type	Interface pipe diameter
Through plate direct connection	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm
	ø16mm

Quick intubation PL2LE series



Type	Interface pipe diameter I	Interface pipe diameter II
Right-angle through-hole plate	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

Quick intubation PL2L series



Type	Interface pipe diameter I	Interface pipe diameter II
Bent tube for intubation	ø4mm	ø4mm
	ø6mm	ø6mm
	ø8mm	ø8mm
	ø10mm	ø10mm
	ø12mm	ø12mm
	ø16mm	ø16mm

PSH Series Check Valve



Type	Direct type	Direct connection type
Direct-through type	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$
Direct connection type	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$

Rotary Joint PKS Series



Type	Direct type	Elbow type
PKSH Straight-through connector (Standard type)	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$ $\phi 16\text{mm}$	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$ $\phi 16\text{mm}$
PKSL Elbow (Standard Type)	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$ $\phi 16\text{mm}$	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$ $\phi 16\text{mm}$

Throttle Speed Control Valve TPSA Series



Type	Interface pipe diameter
Direct type speed control valve	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$

Throttle Speed Control Valve TPSL Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-type speed control valve	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$	M5x0.8	$\phi 4\text{mm}$ $\phi 6\text{mm}$
		PT1/8 PT1/4 PT3/8 PT1/2	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$

Throttle Speed Control Valve TPSS Series



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Universal type Throttle valve	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$	M5x0.8	$\phi 4\text{mm}$ $\phi 6\text{mm}$
		PT1/8 PT1/4 PT3/8 PT1/2	$\phi 4\text{mm}$ $\phi 6\text{mm}$ $\phi 8\text{mm}$ $\phi 10\text{mm}$ $\phi 12\text{mm}$

Push-lock type speed control valve TPTL series



Type	Interface pipe diameter	Applicable take-over diameter
Push-lock type speed control valve	$\phi 6\text{mm}$	PT1/8, PT1/4 PT3/8
	$\phi 8\text{mm}$	PT1/8, PT1/4 PT3/8, PT1/2
	$\phi 10\text{mm}$	PT1/4, PT3/8 PT1/2
	$\phi 12\text{mm}$	PT3/8, PT1/2

Sized L-shaped speed control valve TPS-TFS series



Type	Main dimensions	Interface pipe diameter	Applicable take-over diameter mm
Elbow joint	M5x0.8	M5x0.8	$\phi 2, \phi 3.2, \phi 4, \phi 6$
	1/8, 1/4	G1/8, G1/4	$\phi 3.2, \phi 4, \phi 6, \phi 8, \phi 10$
	3/8	G3/8	$\phi 6, \phi 8, \phi 10, \phi 12$
	1/2	G1/2	$\phi 10, \phi 12, \phi 16$

Screwed-through type speed control valve with scale TPS-TFS series



Type	Main dimensions	Applicable take-over diameter mm
Direct-through type	M5x0.8	$\phi 3.2, \phi 4, \phi 6$
	1/8	$\phi 4, \phi 6$
	1/4	$\phi 6, \phi 8$
	3/8	$\phi 6, \phi 8, \phi 10, \phi 12$
	1/2	$\phi 10, \phi 12$

Hand Valve TPHV Series



Type	Interface pipe diameter
Manual valve	ø6mm ø8mm ø10mm ø12mm

Miniature tube fittings PMA series



Type	pipe diameter	Interface pipe diameter
Barbed joint	ø3.18mm	M3x0.5 M5x0.8 PT1/8
	ø4mm	
	ø6mm	

Miniature tube fittings PMB series



Type	pipe diameter	Interface pipe diameter
Barbed joint	ø3.18mm	M3x0.5
	ø4mm	

Miniature tube fittings PMC series



Type	pipe diameter	Interface pipe diameter
Barbed joint	ø3.18mm	M5x0.8
	ø4mm	
	ø6mm	

Miniature tube fittings PMD series



Type	pipe diameter	Interface pipe diameter
Barbed joint	ø3.18mm	M5x0.8
	ø4mm	
	ø6mm	

Miniature tube fittings PME series



Type	Interface pipe diameter
Universal joint	M3x0.5 M5x0.8

Miniature tube fittings PMF series



Type	Interface pipe diameter
Universal T-joint	M3x0.5 M5x0.8

Miniature tube fittings PMG series



Type	Interface pipe diameter
Screw plug	M3x0.5 M5x0.8

Miniature tube fittings PMH series



Type	pipe diameter	Interface pipe diameter
Hose locking joint	ø4mm	M5x0.8 PT1/8
	ø6mm	

Miniature tube fittings PMJ series



Type	pipe diameter	Interface pipe diameter
Hose locking joint	ø4mm	M5x0.8
	ø6mm	

Miniature tube fittings PMH series



Type	pipe diameter	Interface pipe diameter
Hose locking joint	ø4mm	M5x0.8
	ø6mm	

Miniature tube fittings PML series



Type	Interface pipe diameter
T-joint	M5x0.8

TBB Series Threaded Fittings



Type	Connecting thread I	Connecting thread II
Straight-through internal and external threads	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT1/2

TBD Series Threaded Fittings



Type	Connecting thread I	Connecting thread II
Straight-through internal and external threads	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT1/2

TBU Series Threaded Fittings



Type	Connecting thread I	Connecting thread II
Double internal thread straight-through	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT1/2

TBZ Series Threaded Fittings



Type	Connecting thread I	Connecting thread II
Hexagon socket plug	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT1/2

Auxiliary components

TBKC Series Threaded Fittings



Type	Take over the outer diameter	Inner diameter of the takeover	Connecting thread
Lock nut straight through	ø4mm	ø2.5mm	M3x0.5
	ø6mm	ø4mm	M5x0.8
	ø8mm	ø5mm	PT1/8
	ø10mm	ø6mm	PT1/4
	ø12mm	ø6.5mm	PT3/8
		ø7.5mm	PT1/2
		ø8mm	
		ø9mm	

Hexagon socket plug G/- series



Type	Connecting thread
Hex socket plug	G1/8
	G1/4
	G3/8
	G1/2



TPC-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Threaded straight-through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm



TPOC-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Round thread straight through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm



TPL-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped threaded two-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm



TPLL-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
L-shaped extended type Threaded two-way fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm



TPH-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Hexagon socket elbow joint	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm



TPHF-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Series elbow joint	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm
			ø12mm

Note: Those marked with indicate optional prohibited copper and zinc products.



TPEB-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-shaped right-hand thread Tee joint	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm



TPED-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
T-type side threaded tee fitting	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm



TBKC-S Series Stainless Steel Fittings



Type	Take over the outer diameter	Inner diameter of the takeover	Connecting thread
Lock nut straight through	ø4mm	ø2.5mm	M3x0.5
	ø6mm	ø4mm	M5x0.8
	ø8mm	ø5mm	PT1/8
	ø10mm	ø6mm	PT1/4
	ø12mm	ø6.5mm	PT3/8
		ø7.5mm	PT1/2
		ø8mm	
		ø9mm	



TPCF-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread straight-through	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm



TPM-S Series Stainless Steel Fittings



Type	Interface pipe diameter
Through plate direct connection	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm



TPMF-S Series Stainless Steel Fittings



Type	Interface pipe diameter	Connecting threads	
		Connecting threads	Applicable take-over diameter
Internal thread through plate direct connection	ø4mm	M5x0.8	ø4mm
	ø6mm		ø6mm
	ø8mm	PT1/8	ø4mm
	ø10mm	PT1/4	ø6mm
	ø12mm	PT3/8	ø8mm
		PT1/2	ø10mm



TPU-S Series Stainless Steel Fittings



Type	Interface pipe diameter
Direct access	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm
	ø16mm



TPG-S Series Stainless Steel Fittings



Type	Interface pipe diameter I	Interface pipe diameter II
Direct reduction and straight-through processing	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø10mm
	ø16mm	

Note: Those marked with indicate optional prohibited copper and zinc products.



TPEW-S Series Stainless Steel Fittings



Type	Interface pipe diameter I	Interface pipe diameter II
T-shaped side reducing diameter Three-way fitting	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø8mm
		ø10mm



TPEG-S Series Stainless Steel Fittings



Type	Interface pipe diameter I	Interface pipe diameter II
T-shaped positive reducing tee	ø6mm	ø4mm
	ø8mm	ø6mm
	ø10mm	ø8mm
	ø12mm	ø8mm
		ø10mm



TPV-S Series Stainless Steel Fittings



Type	Interface pipe diameter
L-shaped two-way valve	ø4mm
	ø6mm
	ø8mm
	ø10mm
	ø12mm



TBB-S Series Stainless Steel Fittings



Type	Connecting thread I	Connecting thread II
Straight-through internal and external threads	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT3/8
		PT1/2



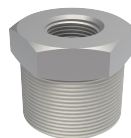
TBZ-S Series Stainless Steel Fittings



Type	Connecting thread I	Connecting thread II
Hexagon socket plug	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT3/8
		PT1/2



TBD-S Series Stainless Steel Fittings



Type	Connecting thread I	Connecting thread II
Straight-through internal and external threads	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT3/8
		PT1/2



TBU-S Series Stainless Steel Fittings



Type	Connecting thread I	Connecting thread II
Double internal thread straight-through	PT1/8	PT1/8
	PT1/4	PT1/4
	PT3/8	PT3/8
	PT1/2	PT3/8
		PT1/2

Note: Those marked with indicate optional prohibited copper and zinc products.

Quick plug TZG10 series



Type		Takeover diameter
Mother body	Public body	
TZG102S	TZG102P	PT1/4
TZG103S	TZG103P	PT3/8
TZG104S	TZG104P	PT1/2

Quick plug TZG20 series



Type		Takeover diameter
Mother body	Public body	
TZG202S	TZG202P	PT1/4
TZG203S	TZG203P	PT3/8
TZG204S	TZG204P	PT1/2

Quick plug TZG30 series



Type		Inner diameter of piping
Mother body	Public body	
TZG302S	TZG302P	φ6mm
TZG303S	TZG303P	φ8mm
TZG304S	TZG304P	φ10mm
TZG305S	TZG305P	φ12mm

Quick plug TZG40series



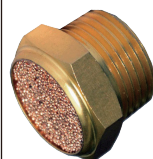
Type		Outer diameter of piping	Inner diameter of piping
Mother body	Public body		
TZG401S	TZG401P	φ6mm	φ4mm
TZG402S	TZG402P	φ8mm	φ5mm
TZG403S	TZG403P	φ10mm	φ6.5mm
TZG404S	TZG404P	φ12mm	φ8mm

Muffler TPAL Series



Type	Connecting thread
Plastic silencer	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

Muffler TBSLM Series



Type	Connecting thread
Miniature silencer	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

Muffler TBSL Series



Type	Connecting thread
Universal muffler	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

Muffler TBESL Series



Type	Connecting thread
Throttle-type muffler	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

Auxiliary components



Stainless Steel Muffler TBSLM-S Series



Type	Takeover diameter
Miniature silencer	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2



Stainless Steel Muffler TBSL-S Series



Type	Connecting thread
Universal muffler	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

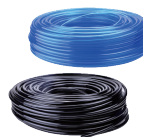


Stainless Steel Muffler TBESL-S Series



Type	Connecting thread
Throttle-type muffler	M5x0.8 PT1/8 PT1/4 PT3/8 PT1/2

Tracheal TUS98A Series



Type	Outer diameter of piping	Inner diameter of piping
Polyurethane pipe	ϕ 3.2mm ϕ 4.0mm ϕ 6.0mm ϕ 8.0mm ϕ 10.0mm ϕ 12.0mm ϕ 16.0mm	ϕ 2.0mm ϕ 2.5mm ϕ 4.0mm ϕ 5.0mm ϕ 6.0mm ϕ 6.5mm ϕ 8.0mm ϕ 10.0mm ϕ 11.0mm ϕ 12.0mm

Tracheal TUCS Series



Type	Outer diameter of piping	Inner diameter of piping	Stretch length m
Polyurethane telescopic tube	ϕ 6mm ϕ 8mm ϕ 10mm ϕ 12mm	ϕ 4.5mm ϕ 5.5mm ϕ 6.5mm ϕ 8mm	3, 6, 9, 12, 15

Flame-retardant gas pipe US54D series



Model	Type	Outer diameter of piping	Inner diameter of piping
US54D0604	Double-layer polyurethane pipe (Flame-retardant pipe)	ϕ 6mm ϕ 8mm ϕ 10mm ϕ 12mm	ϕ 4mm ϕ 5mm ϕ 6.5mm ϕ 8mm
US54D0805			
US54D1065			
US54D1208			

Note: Those marked with indicate optional prohibited copper and zinc products.

Vacuum Generator PZU Series



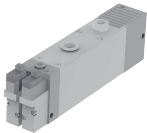
Model	Nozzle diameter mm	Maximum vacuum pressure kPa		Maximum vacuum flow rate L/min	
		S-shape	L-shaped	S-shape	L-shaped
PZU03	φ0.3	-85	-	1.8	-
PZU04	φ0.4	-87		3.2	-
PZU05	φ0.5	-90	-48	7	13
PZU07	φ0.7			11	16

Vacuum Generator PZH Series



Model	Nozzle diameter mm	Maximum vacuum pressure kPa		Maximum vacuum flow rate L/min	
		S-shape	L-shaped	S-shape	L-shaped
PZH05	φ0.5	-90	-48	6	13
PZH07	φ0.7			12	28
PZH10	φ1.0			26	52
PZH13	φ1.3			40	78
PZH15	φ1.5			58	78
PZH18	φ1.8	-66	-	76	128
PZH20	φ2.0			90	155

Vacuum Generator PZL Series



Model	Nozzle diameter mm	Maximum vacuum pressure kPa	Maximum vacuum flow rate L/min
PZL12	φ1.2	-84	100

Vacuum generator component PZK series



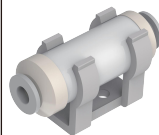
Model	Nozzle diameter mm	Maximum vacuum pressure kPa	Maximum vacuum flow rate L/min	
			Exhaust port type	Silencer type
PZK05	φ0.7	-91	34	29
PZK10	φ1.0		56	44
PZK12	φ1.2		74	61
PZK15	φ1.5		89	67

Vacuum generator VF series



Model	Nozzle diameter mm	Inhalation flow L/min	Reach the level of vacuum -Kpa	air consumption L/min	Supply air pressure -Mpa
VF-05	φ0.5	6	86.7[650]	13	0.5[5]
VF-10	φ1.0	27		44	
VF-15	φ1.5	63	91.8[690]	100	
VF-20	φ2.0	110		180	
VF-25	φ2.5	160		265	
VF-30	φ3.0	225		385	

Vacuum Filter PZC Series



Model	Filtration Precision μm	Pipe outer diameter mm
PZC050-02	10	φ2
PZC050-03		φ7
PZC050-04		φ10

Vacuum suction cup PZA series with buffer support rod (accordion type)



Suction cup type	Suction cup diameter mm	Suction cup material
Organ-type	φ6~φ50	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber

Vacuum suction cup PZA series with buffer support rod (flat type)



Suction cup type	Suction cup diameter mm	Suction cup material
Flat type	φ2~φ50	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber

Vacuum Suction Cup PZA2 Series (Bellows Type)



Suction cup type	Suction cup diameter mm	Suction cup material
Standard type	φ15~φ46	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber

Vacuum Suction Cup PZA2 Series (Oval Type)



Suction cup type	Suction cup diameter mm	Suction cup material
Standard type	2x4 3.5x7 4x10	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber

Vacuum Suction Cup PZA2 Series (Small)



Suction cup type	Suction cup diameter mm	Suction cup material
Flat type	φ3 φ4	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber
Organ-type	φ6 φ8	
Flat ribbed	φ6 φ7 φ8	

Vacuum Suction Cup PZA Series (Nozzle Type)



Suction cup type	Suction cup diameter mm	Suction cup material
Standard type	φ0.8 φ1.1	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber

Vacuum Suction Cup PZA3-U Series



Suction cup type	Suction cup diameter mm	Suction cup material
suction cup monomer	φ4 φ6	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber
With connector	φ8 φ10 φ13	
	φ16	
With buffer		

Vacuum Suction Cup PZA3-B Series



Suction cup type	Suction cup diameter mm	Suction cup material
suction cup monomer	φ4 φ6	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber
With connector	φ8 φ10 φ13	
	φ16	
With buffer		

Vacuum Suction Cup PZA2-B Series



Suction cup type	Suction cup diameter mm	Suction cup material
suction cup monomer	φ3 φ4 φ6	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber
With connector	φ7 φ8	

Vacuum Suction Cup PZA2-U Series



Suction cup type	Suction cup diameter mm	Suction cup material
suction cup monomer	φ3 φ4 φ6 φ7 φ8	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber Polyurethane rubber

Note: Those marked with   indicate optional prohibited copper and zinc products.




Vacuum Suction Cup PZA2-MB Series



Suction cup type	Suction cup diameter mm	Suction cup material
With connector	$\phi 4$ $\phi 6$ $\phi 8$ $\phi 10$ $\phi 15$ $\phi 20$	Polyurethane rubber FKM




Vacuum Suction Cup PZA Series (Oval Type)



Suction cup type	Suction cup diameter mm	Suction cup material
Standard type	2x4~4x10	NBR FKM Conductive NBR Silicone rubber Conductive silicone rubber

Pressure gauge YGZ series



series	Pressure range kPa	Connecting thread R
YGZ46	-100~0kPa	1/8
YGZ46E	-100~100kPa -100~200kPa	1/4

Vacuum pressure relief valve GIRV series



series	Maximum flow	Outer diameter of the connecting pipe
GIRV10	140L/min	$\phi 6/\phi 8/\phi 10$
GIRV20	240L/min	

Note: Those marked with   indicate optional prohibited copper and zinc products.

Guiding shaft



Guide axis bearing



Fixed ring



pivot



Cantilever pin
step screw



Positioning pin
fixture bushing



Positioning guide
parts



Support and fixed
clamp base



washer, shaft ring,
gasket



Screws and nuts



Small parts, magnets



Spring, gas spring



Sealing ring



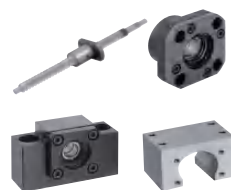
Oil-free bushings



Linear bearing
guide assembly



Ball screw
support assembly



Trapezoidal screw
related parts



Bearings and
components



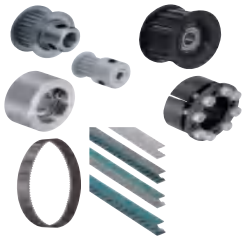
drag chain



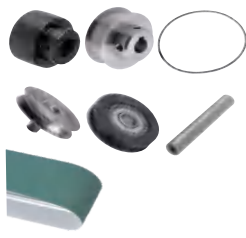
Coupling



synchronizing wheel,
belt, and bushing



Belt, pulley, idler



Gear, rack



Sprocket, chain



Plunger



Rollers and conveyor
components



Polyurethane, shock-
absorbing materials



nozzle



Manifold block



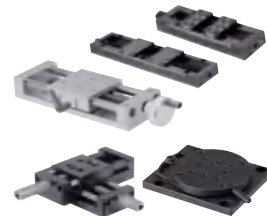
Floating joint



displacement table



Easy Adjustment
Component



Conveyor



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