Tube Fitting Stainless SUS303 Equivalent Corrosivity

>> https://www.pisco.co.ip/en/

SUS303 Equivalent Corrosivity Push-in fittings Series

∴ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

■ Model Designation (Example)



(1) Tube Fitting Stainless SUS303 Equivalent Corrosivity

(2) Type

(3) Tube dia. (ØD)

Code	4	6	8	10	12	16
Tube O.D. (mm)	ø4	ø6	ø8	ø10	ø12	ø16

(4) Thread size(R)

	Metric thread		ic thread Taper pipe male		male thre	ead
Code	M5	М6	01	02	03	04
Male thread size	M5×0.8	M6×1	R1/8	R1/4	R3/8	R1/2

^{*} In case that (4) indicates tube dia., select tube dia. from table (3).

(5) Wash & Packaging spec. (Optional)

Code	No code	-UC
Specifications	No clean wash, Standard pkg.	Clean-wash & Clean-room pkg.

^{*} SPHW, SPHT, SPAW, SPAT is not compatible with clean washing and clean room pkg. spec.

Characteristics

Special stainless steel, which corrosive resistance is equivalent to SUS303 stainless steel is used.

This tube fitting serves best where strength is required or in a corrosive atmosphere.

- Copper Alloy free.
- Seal rubber material is suitable for low level ozone resistance.

HNBR is used for seal rubber material.

Clean-wash spec. (Optional)

For manufacturing process where particles and oil should be avoided.

The products goes through vacuum ultrasonic cleaning by HFE (hydro fluoro ether) in a clean-room and is packed with deaeration packaging.



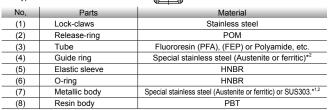
Specifications

Fluid medium	Air, Water (Conditional*)
Max. operating pressure	1.0 MPa
Max. vacuum	-100 kPa
Operating temp. range	0 to 60°C (no freezing)

- * Make sure to follow the instructions below when the fluid medium is water.
- Surge pressure must be controlled lower than max, operating pressure when using water as a fluid medium.
 Ceneral tap water in Japan free from foreign substances or contamination or
- General tap water in Japan, free from foreign substances or contamination, can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
- Be sure to use Insert Ring (WR) when using water or liquid as a fluid medium.

Sectional drawing





(5) (1)(4)

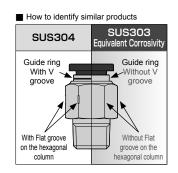
Sealock coating

Tube end

(8)

(6)

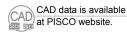
- *1. The gasket of Metric thread is PPS
- *2. The corrosive resistance is equivalent to SUS303.
- *3. SPHW, SPHT, SPAW, and SPAT use FKM and POM as part of the seal material in contact with the fluid.
- *4. SPML uses NBR for nut stops

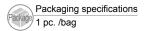


Tube Fitting Stainless SUS303 Equivalent Corrosivity

RoHS2 (2011/65/EU+EU2015/863) compliant

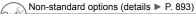
Туре	Model code SPCøD-R5	Туре	Model code SPLøD-R5	Туре	Model code SPBøD-R5
Straight	SPC4-M55	Elbow	SPL4-M55	Branch Tee	SPB4-M55
SPC	SPC4-M505*	SPL	SPL4-M65	SPB	SPB4-M65
øD	SPC4-M65	1	SPL4-015	øD	SPB4-015
	SPC4-015		SPL4-025		SPB4-025
P _R	SPC4-025	øD	SPL6-M55	øD	SPB6-M55
	SPC6-M55	■R	SPL6-M65	■R	SPB6-M65
	SPC6-M65	1	SPL6-015		SPB6-015
	SPC6-015	1	SPL6-025	1	SPB6-025
	SPC6-025		SPL6-035		SPB6-035
	SPC6-035		SPL8-015	1	SPB8-015
	SPC8-015		SPL8-025		SPB8-025
	SPC8-025	1	SPL8-035		SPB8-035
	SPC8-035		SPL10-015	1	SPB10-015
	SPC10-015	1	SPL10-025		SPB10-025
	SPC10-025	1	SPL10-035		SPB10-035
	SPC10-035	1	SPL10-045	1	SPB10-045
	SPC10-045	1	SPL12-025	1	SPB12-025
0004 M50 F	SPC12-025	1	SPL12-035		SPB12-035
SPC4-M50 5 is a slim type of	SPC12-035	1	SPL12-045	1	SPB12-045
SPC4-M5 5.	SPC12-045	1	SPL16-035	1	SPB16-035
(Wrench size: 8 mm)	SPC16-035		SPL16-045	1	SPB16-045
	SPC16-045	_	Model code	_	Model code
_	Model code	Туре	SPHøD-R5	Туре	SPDøD-R5
Type	SPOCøD-R5	Banjo type	SPH4-M55	Run Tee	SPD4-M55
nner Hex.	SPOC4-M55	SPH	SPH4-015	SPD	SPD4-M65
Straight	SPOC4-015		SPH6-M55	øD	SPD4-015
SPOC	SPOC6-M55		SPH6-015		SPD4-025
øD	SPOC6-015	øD	SPH6-025	R	SPD6-M55
	SPOC6-025	R	SPH8-015	1	SPD6-M65
R	SPOC8-015	1	SPH8-025	1	SPD6-015
	SPOC8-025	1	SPH8-035		SPD6-025
	SPOC8-035	1	SPH10-025	1	SPD6-035
	SPOC10-015	1	SPH10-035	1	SPD8-015
	SPOC10-025	1	SPH12-035	1	SPD8-025
	SPOC10-035	1	SPH12-045		SPD8-035
	SPOC10-045	_	Model code	1	SPD10-015
	SPOC12-025	Туре	SPVøD5		SPD10-025
	SPOC12-035	Union Elbow	SPV45	1	SPD10-035
	SPOC12-045	SPV	SPV65		SPD10-045
-	Model code		SPV85	1	SPD12-025
Туре	SPUøD5		SPV105	1	SPD12-035
Jnion Straight	SPU45	øD øD	SPV125	1	SPD12-045
SPU	SPU65	1	SPV165	1	SPD16-035
øD	SPU85	_	Model code	1	SPD16-045
	SPU105	Туре	SPEøD5	-	Model code
øD	SPU125	Union Tee	SPE45	Туре	SPEGøD ₁ -øD ₂
	SPU165	SPE	SPE65	Unequal Union Tee	SPEG6-45
_	Model code	øD	SPE85	SPEG	SPEG8-65
Type	SPGøD ₁ -øD ₂ 5		SPE105	øD ₁	SPEG10-85
Jnequal Union	SPG6-45	øD øD	SPE125		SPEG12-105
Straight	SPG8-65	1	SPE165	$\emptyset D_1$ $\emptyset D_2$	
SPG	SPG10-85			1	
øD ₁	SPG12-105	1			
øD ₂	SPG16-125				
N 1 2		1			





Ontion	Options	
Option	Code	5 : -UC
	Specifications	Clean-wash and Clean-room pkg. (*)

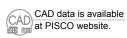
^{*} Rubber material: FKM is not available for Cleanwash spec.



- · Body color Optional (Light gray)
- · Seal rubber material optional (FKM or EPDM)
- · Oil-free
- · Copper free spec.
- $\cdot \ \text{Release-ring color change (Red)}$
- ► Contact us for the price.

RoHS2 (2011/65/EU+EU2015/863) compliant

Туре	Model code SPXøD-R5	Туре	Model code SPAXøD-R5	Туре	Model code SPCFøD-Rc5
Branch Y	SPX4-M55	Branch Elbow	SPAX4-M55	Female Straight	SPCF4-M55
SPX	SPX4-M65	SPAX	SPAX4-M65	SPCF	SPCF4-015
R	SPX4-015		SPAX4-015		SPCF4-025
00	SPX4-025	00	SPAX4-025		SPCF6-M55
øD	SPX6-M55	øD	SPAX6-M55	Rc	SPCF6-015
	SPX6-M65	■R	SPAX6-M65	1	SPCF6-025
	SPX6-015		SPAX6-015	1	SPCF6-035
	SPX6-025		SPAX6-025	1	SPCF8-015
	SPX6-035		SPAX6-035	1	SPCF8-025
	SPX8-015		SPAX8-015	1	SPCF8-035
	SPX8-025		SPAX8-025	1	SPCF10-025
	SPX8-035		SPAX8-035		SPCF10-035
	SPX10-015		SPAX10-015	1	SPCF12-025
	SPX10-025	1	SPAX10-025	1	SPCF12-035
	SPX10-035	=	SPAX10-035	1	SPCF12-045
	SPX10-045	1	SPAX10-045	_	Model code
	SPX12-025	1	SPAX12-025	Туре	SPMFøD-Rc5
	SPX12-035		SPAX12-035	Bulkhead	SPMF4-015
	SPX12-045		SPAX12-045	Female Straight	SPMF4-025
	SPX16-035	_	Model code	SPMF	SPMF6-015
	SPX16-045	Туре	SPVXøD-R5	øD	SPMF6-025
Tuno	Model code	Tripod Elbow	SPVX4-M55		SPMF6-035
Туре	SPYøD5	SPVX	SPVX4-M65	Rc	SPMF8-015
Jnion Y	SPY45	øD	SPVX4-015]	SPMF8-025
SPY	SPY65		SPVX4-025		SPMF8-035
øD	SPY85		SPVX6-M55		SPMF10-025
00	SPY105	R ØD	SPVX6-M65]	SPMF10-035
øD	SPY125	1	SPVX6-015		SPMF12-025
	SPY165		SPVX6-025		SPMF12-035
Tuno	Model code		SPVX6-035]	SPMF12-045
Type	SPWøD1-øD25		SPVX8-015]	SPMF16-035
Jnequal Union Y	SPW6-45	1	SPVX8-025]	SPMF16-045
SPW	SPW8-65		SPVX8-035	Time	Model code
øD ₁	SPW10-85		SPVX10-015	Туре	SPMøD5
00	SPW12-105		SPVX10-025	Bulkhead Union	SPM45
ØD ₂	SPW16-125		SPVX10-035	SPM	SPM65
Type	Model code		SPVX10-045	øD øD	SPM85
Туре	SPAUøD5		SPVX12-025		SPM105
Branch	SPAU45		SPVX12-035	ØD •	SPM125
Jnion Elbow	SPAU65		SPVX12-045		SPM165
SPAU øD	SPAU85	Туре	Model code	Type	Model code
	SPAU105	туре	SPVUøD5	Туре	SPMLøD5
00	SPAU125	Tripod Union	SPVU45	Bulkhead	SPML45
øD O		SPVU	SPVU65	Union Elbow	SPML65
		øD 🚬	SPVU85	SPML	SPML85
			SPVU105		SPML105
			SPV0100		OI WIL TOU

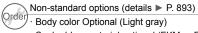




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Specifications Clean-wash and Clean-room pkg. (*) (Fill in 5 with "-UC".)	"	Code	5 : -UC
		Specifications	

^{*} Rubber material: FKM is not available for Cleanwash spec.



- \cdot Seal rubber material optional (FKM or EPDM)
- · Oil-free
- · Copper free spec.
- · Release-ring color change (Red)
- ► Contact us for the price.



>>> https://www.pisco.co.jp/en/



Make to Order Production

Order Production Index

Based on the standard products, "Special specification option" on parts for matching operating environment or "Special appearance option" for matching a color for operating environment can be selected and ordered by just adding prearranged extension code of options.

*PISCO welcomes an inquiry of custom-made product, which is not listed in this catalog. Please feel free to contact nearest PISCO office.

PISCO flexibly corresponds to non standard products that meet the needs of our customers.



G thread spec.



Fittings with mm size tube diameter and parallel pipe thread are available. Contact us for inquiry.

Applicable model

Fitting Tube Fitting, Tube Fitting Mini

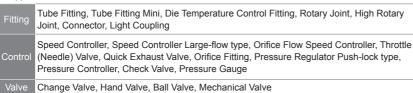


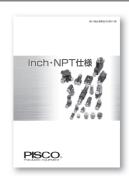




NPT

Applicable model





Special options



Color option

Light-gray color option for resin body and release-ring

- Seal rubber material option Seal Rubber Selection: FKM, EPDM or HNBR.
- Oil-free option Assembled without intentional use of oil, oil contamination into fluid medium can be prevented
- ▶ Release-ring color option Changeable to Red Color

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

Model Designation (Example)



- (1) Model code (See the next page for available products.)
- (2) Body color (Resin body color)

Code	W	No code	
Color	Light gray	Standard	

*When light-gray (W) is selected for body color, the metric (mm) size release-ring color is light-gray even for combination with any other options (except when red release-ring is specified).

(3) Seal rubber material

Code	-F	-E	-HN	No code
Material	FKM	EPDM (Oil-free)	HNBR	Standard seal rubber

- *1. For FKM (-F) specification, the color of metric (mm) size release-ring is brown, while inch tube dia, is white, FKM (-F) specification is not available with non-purple (-P) specification.
- *2. For EPDM (-E) specification, the product is assembled as oil-free specification. The color of metric (mm) release-ring is yellow.
 *3. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or with inch tube dia.

(4) Lubrication

Code	-D	<u>_</u>	No code
Ontion	Oil-free	Non nurala	Standard

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

- *1. The metric (mm) size release-ring color of oil-free (-D) specification is yellow, while inch tube dia. is white.
 *2. The product with oil-free (-D) specification is assembled without intentional use of lubrication in standard process.
- Therefore the problem of reducing airtightness or increasing frictions of rubber parts may be resulted.

(5) Release-ring color

Code	-RR	No code
Color	Red	Standard

Reference Chart of Special Options

○: Available, X: Not available

					∴ Available, ∧. Not availab						Ivaliable			
	Standard specification					Special specification								
	Body color and	Resin Release-		Seal			(1)		(2)			3)		(4)
Product series	Packaging/	body	ring	rubber	Lubrication		Body color		ubber m		Lubrication			Release-ring color
	Cleaning option	color	color	material		sealing	Light gray	FKM	EPDM	HNBR	Oil-free option	Non	ourpl e	Red
	3 10 3						W*1	-F *2	-E*3	-HN	-D*4	-F	*2	-RR
Tube fitting	Standard	Black	Black		Turbin oil		×	○*5	0					
	Light gray	Light gray	Light gray				Standard spec.							\circ
	Clean-room pkg.	Light gray	Light blue		Fluorine-based	Sealock coating	×	0	○*6	0	○*6			
	Light gray + Clean-room pkg.		Light gray		grease		Standard spec.		0		0)		×
	Clean wash + Clean-room pkg.	Light gray	Light blue		Oil-free option		×	×	○*6		Standard spec.			\circ
Tube fitting Mini	Standard	Black	Black		Turbin oil		×	<u>*5,*10</u>	O*10					
	Light gray	Light gray	Light gray	NBR	Turbirroii	- Sealock coating	Standard spec.			*10				\circ
	Clean-room pkg.	Light gray	Light blue	INDK	Fluorine-based	- Sealock coalling	×	O*10	<u>*6,*10</u>		○*6	,		
	Light gray + Clean-room pkg.	Light gray	Light gray		grease		Standard spec.	1	O*10		0	1		×
Tube Fitting SUS304	Standard	Black	Dark blue	FKM	Turbin oil	Sealock coating	×	Standard spec.	O*7	0	O*7)	(△*17
Tube Fitting Stainless SUS303	Standard	Black	Dark blue		Turbin oil		0	0	<u>*7,*15</u>		O*7	(
equivalent corrosivity	Clean wash + Clean-room pkg.	Black	Dark blue	HNBR Oil-free option	→ Coolook contine L	×	×	7, 15	Standard spec.	Standard spec.	;	(0	
Tube Fitting Anti-static	Standard	Black	Black	NBR		Sealock coating	×	0	O*8	0	*8			△*17
Tube fitting Brass	<u>.</u>			HNBR FKM	Turhin oills	urbin oil Sealock coating	×	Standard spec.	Standard spec.					
Ü	Standard	_	_							0		×		
Tube fitting Long	Standard	_	Black	NBR	Turbin oil	Sealock coating	×	O*5	0	0	0	(0
Main block	Standard	Black	Black	NDD T II II	NBR Turbin oil Sealock coating	×	O*5			△*17				
	Light gray	Light gray	Light gray	NBK		Sealock coaling	Standard spec.	0	0	0				\circ
Connector	Standard	Black	Black	NBR	Turbin oil	_	×	O*5	0	0	0			0
Speed controller*14	Standard	Black	Black		-		×	○*13	O *40					
	Light gray	Light gray	Light gray		Turbin oil		Standard spec.		○*10			()	\circ
	Clean-room pkg.		Light blue	NBR	Fluorine-based	based Sealock coating	×	*10,*11,*12	*6,*10	*10,*11	△*17		,	
	Light gray + Clean-room pkg.		Light gray		grease		Standard spec.		O*10					×
Speed controller SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	0	<u>*11,*12</u>	O*7	Standard spec.	△*17	(0
Needle valve	Standard	Black	Black				×	<u>*5,*12</u>						
	Light gray	Light gray	Light gray		Turbin oil Fluorine-based grease		Standard spec.		0			()	0
	Clean-room pkg.		Light blue	NBR		orine-hased Sealock coating	×	O*12	<u></u>		△*17			_
	Light gray + Clean-room pkg.		Light gray				Standard spec.	1	0					×
Orifice fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	0	0	Ō	0	0		*16	<u>*</u> 9
Check valve (Metal type)		_	Black			,	X							
Check valve (Resin type)	Standard	Light gray	Light gray	NBR	Turbin oil Sealock coatin	Sealock coating	Standard spec.		×	×	△*17			\circ
Check Valve for Low		1 - 3 3 7	-33)	HNBR				0	0					
Operating Pressure				(Elastic sleeve)	Turbin oil —			-	(Elastic sleeve)	Standard spec.				
operating Fresoure	Standard	Light gray	Light gray	FKM		-	Standard spec.	(2222	×	×	0		K	\bigcirc
				(Valve packing)				Standard spec.		(Valve packing)				
				(. arro paorarig)					(- air o pasialig)	(.arro paoriirg)				

^{*1.} When light-gray (-W) is selected for body color, the release-ring color of metric (mm) tube dia. is light-gray even for combination with any other options, except when Red color (-RR) is selected. The color of release-ring of inch tube dia. Is always white

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

^{*3.} For EPDM (-E) specification of sealing material, the product is assembled as oil-free specification. The color of release-ring of metric (mm) tube size is yellow, except the combination with light-gray specification, which has light-gray release-ring. EPDM (-E) specification is not available for the products with M3 or M6 threads or inch tube dia.

^{*4.} Release-ring color: Yellow (When with light-gray specification, the release-ring color is light-gray.) *5. Release-ring color: Brown

^{*6.} Release-ring color: Light-blue *7. Release-ring color: Dark-blue

^{*8.} Release-ring color: Black
*9. Release-ring color: Red is not available with body color Light-gray.

^{*10.} Not available for Tube dia. ø1.8 mm and ø2 mm
*11. Not available for Low cracking pressure type.
*12. Not available for the products with M3 thread.
*13. See *5, *10, *11 and *12.

^{*13.} See *5, *10, *11 and *12.
*14. Applicable types: JSC, JSS and JSM for Standard series, JSC-H for High Flow series, JSC-L and JSS-L for Low Flow series, JKC and JKL for Constant Flow series.
*15. Gasket material for Metric thread: PPS
*16. Orifice bore 0.1 mm and 0.2 mm is not available.
*17. Contact us for inquiry.

^{*}Consult PISCO for any inquiry of special-made product, which is not listed in this catalog.

Make to Order Production

Reference Chart of Appearance Color Combination with Special Options (Fitting with Metal body)

						Lubrication Pologos ring color		
Product series	Resin color	Tube dia. size		Seal rubber material -F -E		Lubrication -D	Release-ring color -RR	
Product series	or Option	Tube C	iia. Size	FKM EPDM		Oil-free option	Red	
	- Sprion	mm size				Oil-life option	Ned	
	_	inch size						
Tube fitting	Light gray	mm size						
Tube fitting Mini	Clean-room pkg.	mm size						
	Clean-room pkg.	inch size						
	Light gray + Clean-room pkg.	mm size						
	Clean wash + Clean-room pkg.	mm size				Standard specification		
Tube fitting		inch size				Standard specification		
Tube Fitting SUS304	-	mm size		Standard specification				
Tube Fitting Stainless SUS303 equivalent corrosivity	-	mm size						
	Light gray	mm size						
	Clean wash + Clean-room pkg.	mm size				Standard specification		

Reference Chart of Appearance Color Combination with Special Options (Fitting with Resin body)

Product series	Resin color or Option	Tube dia. size		Seal rubber material -F FKM EPDM		Lubrication -D Oil-free option	Release-ring color -RR Red
		mm size					
		inch size					
	Light gray	mm size				OF	0
Tube fitting Tube fitting Mini	Eight gray	inch size					
	Clean-room pkg.	mm size					0
		inch size					
	Light gray + Clean-room pkg.	mm size					
Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	0
		inch size				Standard specification	
Tube Fitting SUS304	_	mm size		Standard specification			
Tube Fitting Stainless SUS303 equivalent corrosivity	-	mm size					0
	Light gray	mm size					
	Clean wash + Clean-room pkg.	mm size				Standard specification	

Make to Order Production —

Reference Chart of Appearance Color Combination with Special Options (Controllers)

	Resin color			Seal rubbe	Release-ring color	
Product series	or Option	Tube o	dia. size	-F FKM	-E EPDM	-RR Red
Speed controller Throttle (needle) valve		mm size				
	_	inch size				
	Light gray	mm size				
		inch size			OE	
	Clean-room pkg.	mm size				
		inch size				
	Light gray + Clean-room pkg.	mm size			0	



To: PISCO Distributers

Attn: To Whom It May Concern

Date: September 2024

Discontinuation notice of Non-purple spec. option

We would like to express our sincere gratitude for your continued patronage. We would like to inform you that the Non-purple spec., which was available as Special specification option, is discontinued, and its manufacturing and sales will be terminated as of the end of March, 2025.

Thank you for your understanding.

Details

1. Discontinued option Make-to-order option, Special specification: Non-purple spec.

Model code (Ex.): PL6-01<u>-P</u>
*"-P" at the end of the model code

Non-purple spec: For the Non-purple spec., fluorine ions and copper ions, which were undesirable in the manufacturing line of cathode ray tube televisions, are suppressed by not applying Sealock (fluorine-based thread sealant) to the products. Thus, Non-purple spec. is equivalent to No-Sealock spec.

2. Reason To update and expand applicable products by reviewing specifications to match the current situation.

3. Discontinuation Date March 31, 2025

4. Replacement Make-to-order option, Special specification: No-Sealock spec.

Model code (Ex.): PL6-01-NS

*"-NS" at the end of the model code

*The list price remains the same.

		Thread sealant (Sealock)	Rubber material (Std. NBR)	Gasket material (Std. NBR)	Lubrication (Std. Turbine oil)	Marking	Applicable products
Discontinued	-P: Non-purple	Not applied		ine materi ot selectat		Not available	Some models of Tube Fitting
Replacement	-NS: No-Sealock	Not applied	Fluor	ine materi selectabl		Available	Tube Fitting, Speed Controller, Needle Valve, Check Valve, etc.

Please make inquiries to the following sales office.

Overseas Sales Department

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