齐富自动工业股份有限公司
瑞霆貿易(上海)有限公司

German Tech Auto Co., Ltd. (GTA) was established in 1991, the company headquarters in Taipei. The company cooperation with a number of world-renowned German companies, the pursuit of "thinking, innovation, fighting, team" for the purpose, is committed to precision machinery and auto parts professional agents and quality technical services, in order to respond to the rapid growth of the Chinese mainland market, Respectively, the establishment of a number of subsidiaries in China, hoping to improve efficiency for customers and expand customer competitive advantage for customers to create higher value and profit.

After years of unremitting efforts, innovation and research and development, GTA finally has its own independent brand GTA rotary joint. GTA rotary joint mainly connected to the rotating parts and fixed parts for the mechanical equipment components from the fixed parts to the rotating parts of the seal to provide or remove the media, GTA rotary joint is mainly used in the machine tool industry (central cooling), mainly used in high-pressure high-speed to achieve higher speed and machining accuracy. GTA rotary joint can also be used for deep hole drilling work and auto parts manufacturing, as well as large molds, such as: deep hole drilling machine, special machine, etc.

The key technology and advantages of our GTA rotary joint: precision silicon carbide seal and stainless steel material to ensure operation in a long time in extreme cold and extremely hot conditions , and do rust, anti-corrosion; patented seal design, improved product life, can be used for dry running and other media transmission.

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CONTENTS

SRJ 01

- Integrated type: developed for machine tools and special designated machine line which are operated under condition at high rotating speed and pressure.

- During rotary motion, high rotating speed and pressure make more friction and abrasion relevantly, GTA Rotary Joint confirms excellent performance and life time via the use of independently delevoped high quality seal and up-to-date pressed-in methods.

SRJ 01

Integrated type Rotary Joint selection chart

Model	Media	Pressure	Temperature	Max. RPM	Max. Flow
SRJ01–101–01	Coolant/Oil	30bar	120℃	4,000	80 L/min
SRJ01–101–02	Air	10bar			
SRJ01–201–01	Coolant/Oil	100bar	70℃	20,000	24 L/min
SRJ01–201–02					80 L/min
SRJ01–201–11					24 L/min
SRJ01–201–12					80 L/min
SRJ01–202–01	Coolant/Oil	70bar		7,000	24 L/min
SRJ01–202–02	Air	10bar		2,000	
SRJ01–202–03				15,000	80 L/min
SRJ01–202–04				7,000	24 L/min
SRJ01–202–05				15,000	80 L/min
SRJ01–202–11	Coolant/Oil	70bar		7,000	24 L/min
SRJ01–202–12	Air	10bar		2,000	
SRJ01–202–13				15,000	80 L/min
SRJ01–202–14				7,000	24 L/min
SRJ01–202–15				15,000	80 L/min
SRJ01–203–01	Coolant/Oil	100bar		24,000	24 L/min
SRJ01–203–02					
SRJ01–204–01				24,000	24 L/min
SRJ01–205–01				10,000	24 L/min

- Please request for customized model and Subject to technical change without notice.

SRJ 02

- Detachable type: developed for the machine tools application with growing high precision cutting technology which is must endure the high pressure with high rotating speed.
- During rotary motion, high rotating speed and pressure make more friction and abrasion relevantly，GTA Rotary Joint confirms excellent performance and life time via the use of independently developed high quality seal and up-to-date pressed-in methods.

SRJ 02

Detachable type Rotary Joint selection chart

Model	Media	Pressure	Temperature	Max. RPM	Max. Flow
SRJ02-101-01	Coolant/Oil Air	100bar 10bar	70	30,000	48 L/min
SRJ02-101-02					
SRJ02-102-01					
SRJ02-103-01					26 L/min
SRJ02-103-02					

Also recommend for high speed operation without media.

- Please request for customized model and subject to technical change without notice.

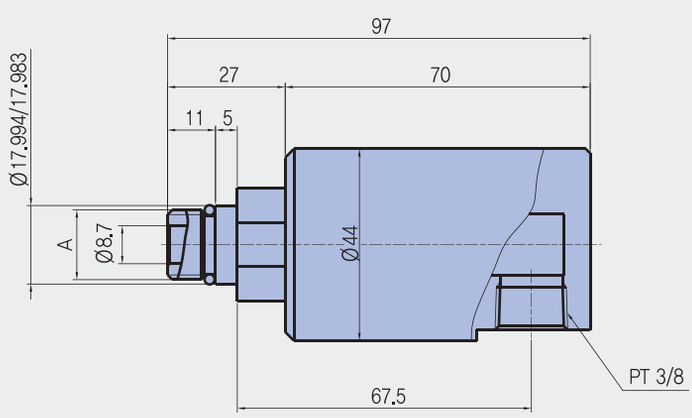
SRJ 01-101

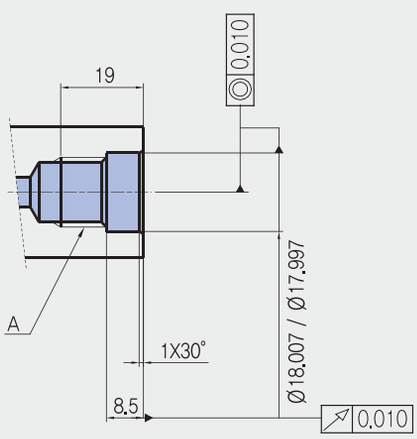
Hydraulic/Pneumatic Rotary Joint

- Anodizing alumium body
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition

Operating data

Max. pressure:	30bar(Air 10bar)
Max. RPM:	4000
Media:	Coolant/Air
Max. Temperature:	120℃
Max.Flow:	80 l/min





Spindle detail

SRJ 01-101

Model	A
SRJ01-101-01	M16x1.5 LH
SRJ01-101-02	M16x1.5 RH

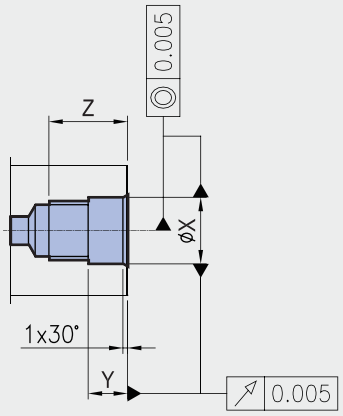
- Please request for customized model and Subject to technical change without notice.

SRJ 01-201

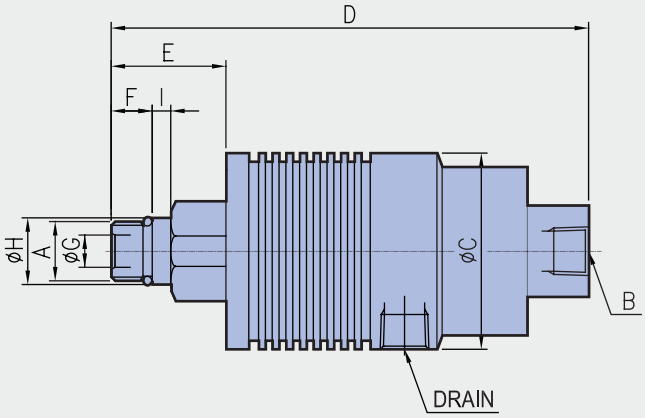
- Available for high speed operating without media
- Anodizing Aluminum body.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar
Max. RPM:	20,000
Max. Temperature:	70℃
Max.Flow:	24l/min, 80l/min



Spindle Detail



Axial Connection

SRJ 01-201

Model	A	B	C	D	E	F	G	H	I
SRJ01-201-01	M16x1.5LH	PT 1/4"	53	129	31	11	9	17.994/17.983	5
SRJ01-201-02	M16x1.5LH	PT 3/8"	53	129	31	11	9	17.994/17.983	5

X	Y	Z	Max. Flow
18.007/17.997	8.5	17	24 L/min
18.007/17.997	8.5	17	80 L/min

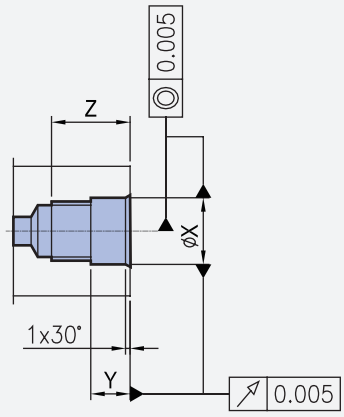
- Please request for customized model and subject to technical change without notice.

SRJ01 -201

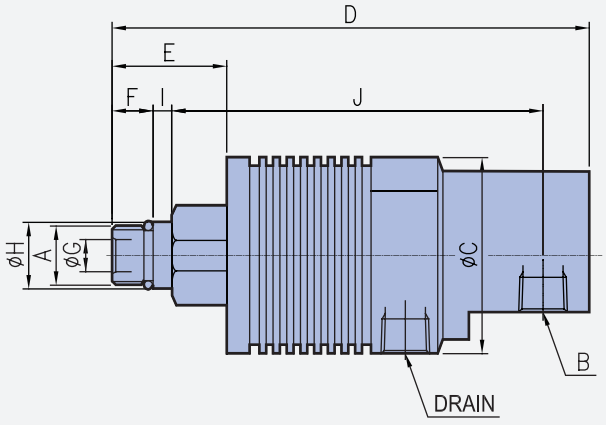
- Available for high speed operating without media
- Anodizing Aluminum body.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar
Max. RPM:	20,000
Max. Temperature:	70°C
Max.Flow:	24l/min, 80l/min



Spindle Detail



Radial Connection

SRJ 01-201

Model	A	B	C	D	E	F	G	H	I
SRJ01-201-11	M16x1.5LH	PT 1/4"	53	129	31	11	9	17.994/17.983	5
SRJ01-201-12	M16x1.5LH	PT 3/8"	53	129	31	11	9	17.994/17.983	5

X	Y	Z	Max. Flow
18.007/17.997	8.5	17	24 L/min
18.007/17.997	8.5	17	80 L/min

- Please request for customized model and subject to technical change without notice.

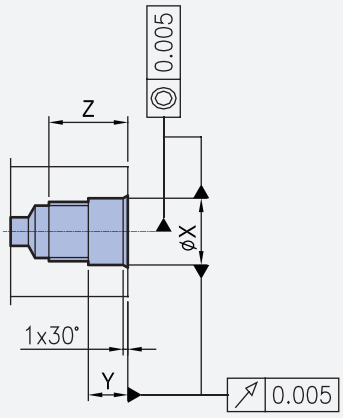
SRJ01 -202

Partly not recommended for dry running

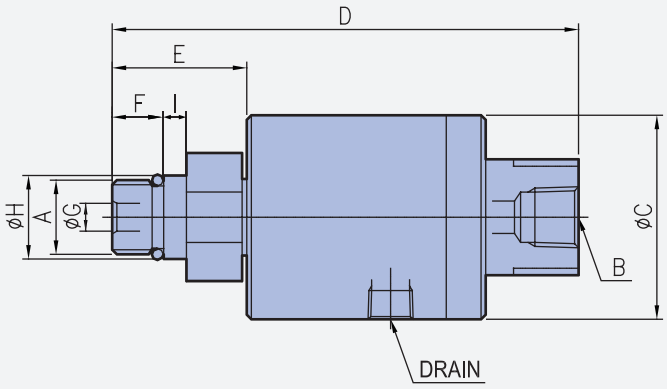
- Anodizing Aluminum body.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	70bar
Max. RPM:	7,000/15,000
Max. Temperature:	70℃
Max.Flow:	24l/min, 80l/min



Spindle Detail



Axial Connection

SRJ 01-202

Model	A	B	C	D	E	F	G	H	I
SRJ01-202-01	M16x1.5LH	PT 1/4"	44	100.5	29	11	6	17.994/17.983	5
SRJ01-202-02	M16x1.5LH	PT 1/4"	44	100.5	29	11	6	15.994/15.983	5
SRJ01-202-03	M16x1.5LH	PT 3/8"	44	100.5	29	11	9	15.994/15.983	5
SRJ01-202-04	5/8"UNF LH	PT 3/8"	44	100.5	33	14	6	16.660/16.653	6
SRJ01-202-05	M16x1.5LH	PT 3/8"	44	100.5	29	11	9	17.994/17.983	5

Model	X	Y	Z	Max. RPM	Max. Flow	Max. Pressure	Dry Run
SRJ01-202-01	18.007/17.997	8.5	19	7,000	24 L/min	70 bar	No
SRJ01-202-02	16.007/15.997	8.5	19	7,000	24 L/min	70 bar	No
SRJ01-202-03	16.007/15.997	8.5	19	15,000	80 L/min	100 bar	Yes
SRJ01-202-04	16.660/16.653	9.5	22	7,000	24 L/min	70 bar	No
SRJ01-202-05	18.007/17.997	8.5	19	15,000	80 L/min	100 bar	Yes

- Please request for customized model and subject to technical change without notice.

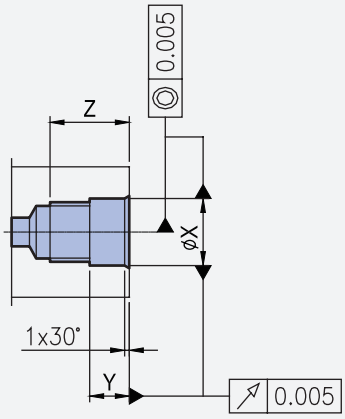
SRJ01 -202

Partly not recommended for dry running

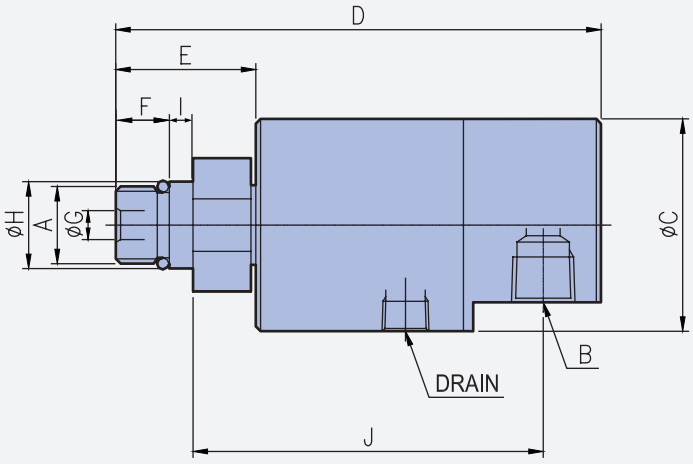
- Anodizing Aluminum body.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	70bar
Max. RPM:	7,000/15,000
Max. Temperature:	70°C
Max.Flow:	24l/min, 80l/min



Spindle Detail



Radial Connection

SRJ 01 -202

Model	A	B	C	D	E	F	G	H	I
SRJ01-202-11	M16x1.5LH	PT 1/4"	44	100.5	29	11	6	17.994/17.983	5
SRJ01-202-12	M16x1.5LH	PT 1/4"	44	100.5	29	11	6	15.994/15.983	5
SRJ01-202-13	M16x1.5LH	PT 3/8"	44	100.5	29	11	9	15.994/15.983	5
SRJ01-202-14	5/8"UNF LH	PT 3/8"	44	105	33	14	6	16.660/16.653	6
SRJ01-202-15	M16x1.5LH	PT 3/8"	44	105	29	11	9	17.994/17.983	5

Model	X	Y	Z	Max. RPM	Max. Flow	Max. Pressure	Dry Run
SRJ01-202-11	18.007/17.997	8.5	19	7,000	24 L/min	70 bar	No
SRJ01-202-12	16.007/15.997	8.5	19	7,000	24 L/min	70 bar	No
SRJ01-202-13	16.007/15.997	8.5	19	15,000	80 L/min	100 bar	Yes
SRJ01-202-14	16.660/16.653	9.5	22	7,000	24 L/min	70 bar	No
SRJ01-202-15	18.007/17.997	8.5	19	15,000	80 L/min	100 bar	Yes

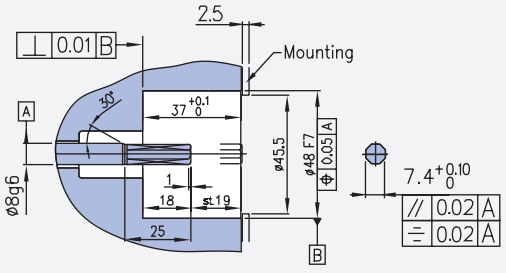
- Please request for customized model and subject to technical change without notice.

SRJ01 -203

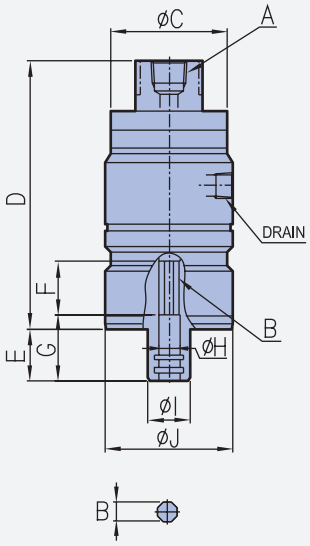
- Available for high speed operating without media
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

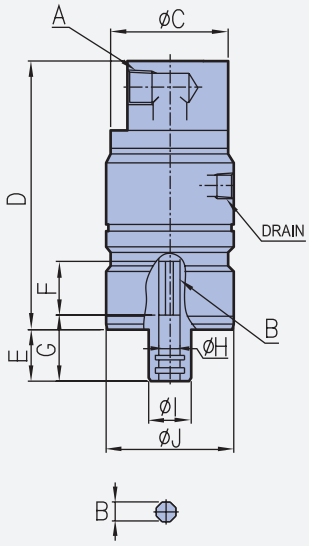
Max. pressure:	100bar
Max. RPM:	24,000
Max. Temperature:	70℃
Max.Flow:	24l/min



Housing Detail



Axial Connection



Radial Connection

SRJ 01-203

	Model	A	B	C	D	E	F	G
Axial connection	SRJ01-203-01	PT 1/4"	8각 7.4 +0.1 □D	44	101	19.5	20	25
Radial connection	SRJ01-203-02	PT 1/4"	8각 7.4 +0.1 □D	44	101	19.5	20	25

H	I	J
8.1 H7	16 0 -0.1	48 -0.009 -0.025
8.1 H7	16 0 -0.1	48 -0.009 -0.025

- Please request for customized model and subject to technical change without notice.

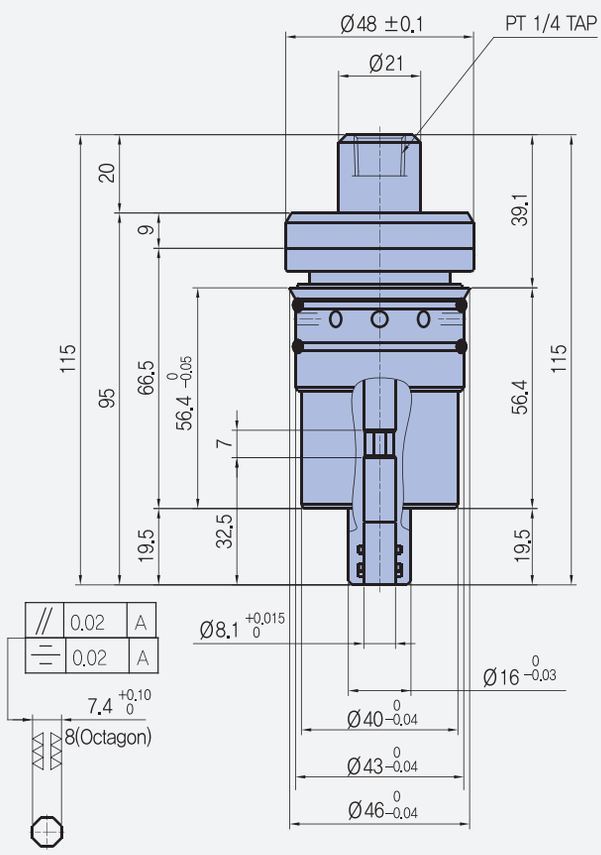
SRJ 01-204

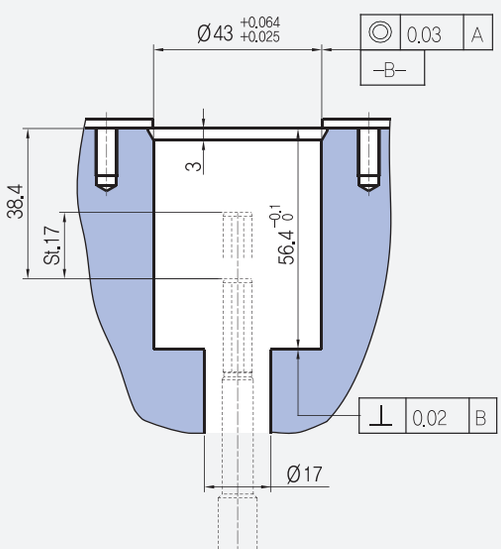
- Available for high speed operating without media
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar(Air 10bar)
Max. RPM:	24,000
Media:	Coolant/Air
Max. Temperature:	70°C
Max.Flow:	24l/min

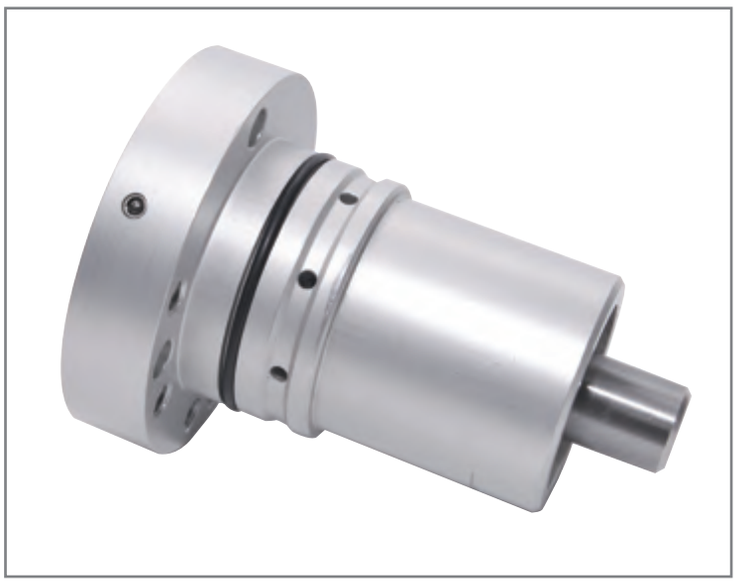
SRJ 01-204





Housing Detail

- Please request for customized model and subject to technical change without notice.



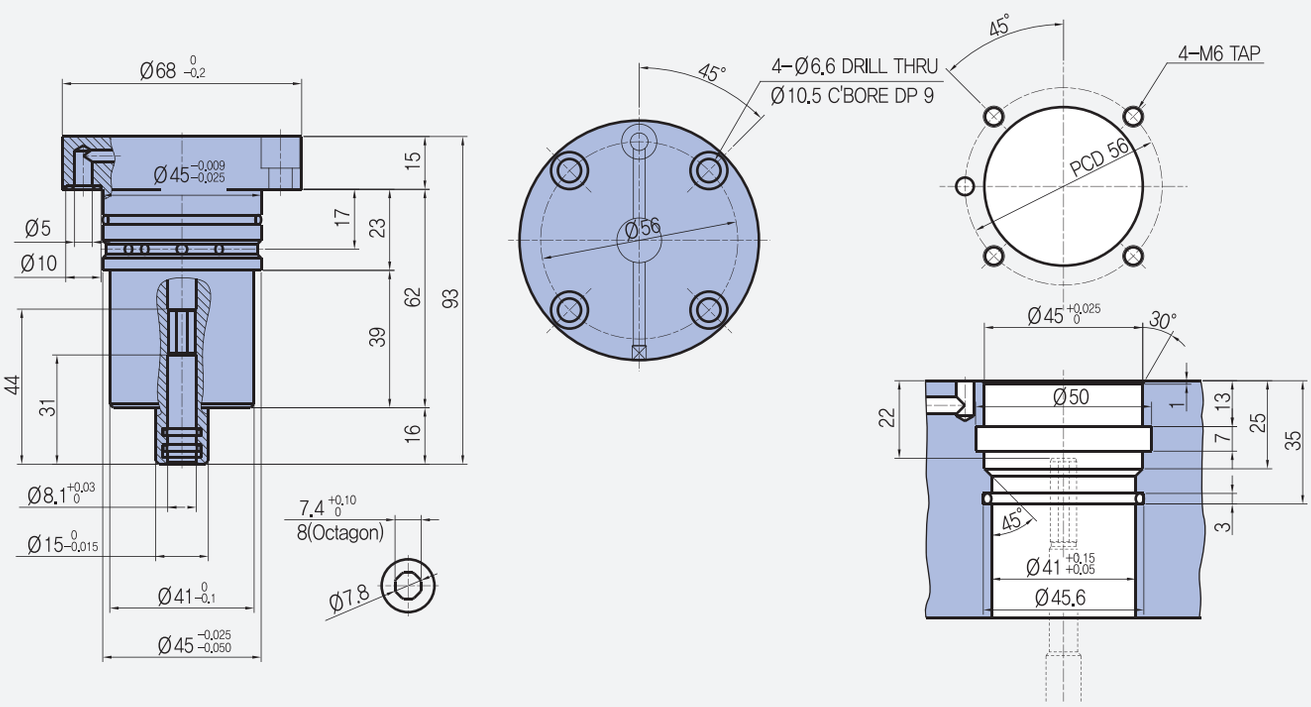
SRJ 01-205

- Available for high speed operating without media
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar(Air 10bar)
Max. RPM:	10,000
Media:	Coolant/Air
Max. Temperature:	70°C
Max.Flow:	24l/min

SRJ 01-205



Housing Detail

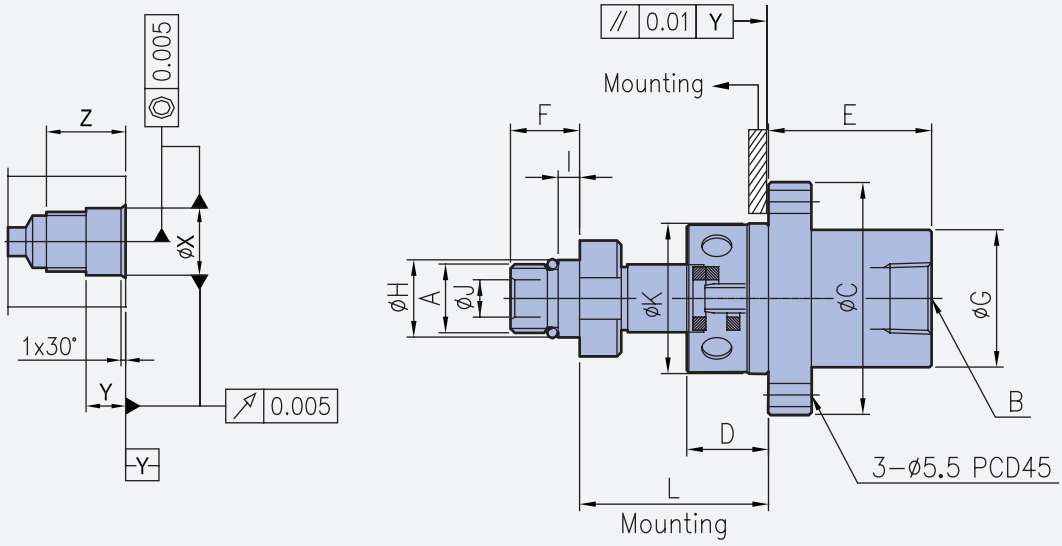
- Please request for customized model and subject to technical change without notice.

SRJ 02-101

- Available for high speed operating without media thank to Auto-off Seal.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar
Max. RPM:	30,000
Max. Temperature:	70℃
Max.Flow:	48l/min



Spindle Detail

SRJ 02-101

Model	A	B	C	D	E	F	G	H	I
SRJ02-101-01	M16x1.5LH	PT 3/8"	54	19	38	16	32	17.994/17.983	5
SRJ02-101-02	M12x1.25LH	PT 3/8"	54	19	38	16	32	13.994/13.983	5

J	K	L
8.7	$35^{-0.1}_{-0.2}$	42 ±2.5
8.7	$35^{-0.1}_{-0.2}$	37 ±2.5

X	Y	Z
18.007/17.997	8.5	17
14.007/13.997	8.5	17

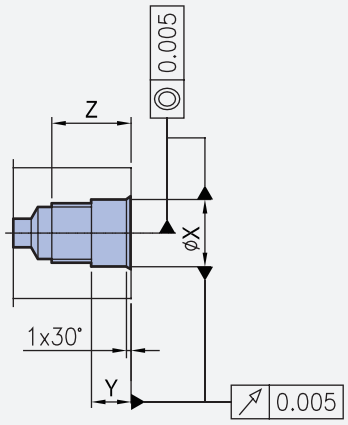
- Please request for customized model and subject to technical change without notice.

SRJ 02-102

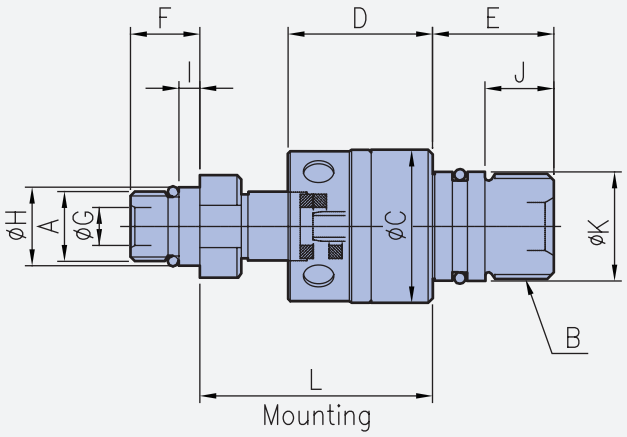
- Available for high speed operating without media thank to Auto-off Seal.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar
Max. RPM:	30,000
Max. Temperature:	70°C
Max.Flow:	48l/min



Spindle Detail



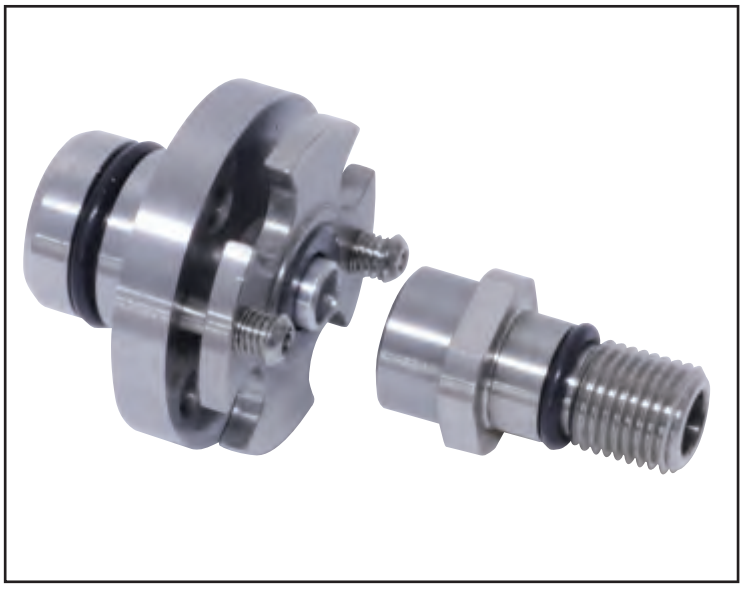
SRJ 02-102

Model	A	B	C	D	E	F	G	H	I
SRJ02-102-01	M16x1.5LH	M24X1.5LH	$35^{-0.10}_{-0.15}$	33	27.8	16	8.7	17.994/17.983	4.8

J	K	L
15.8	$25^{-0.009}_{-0.025}$	52±2.5

X	Y	Z
18.007/17.997	8.5	17

- Please request for customized model and subject to technical change without notice.

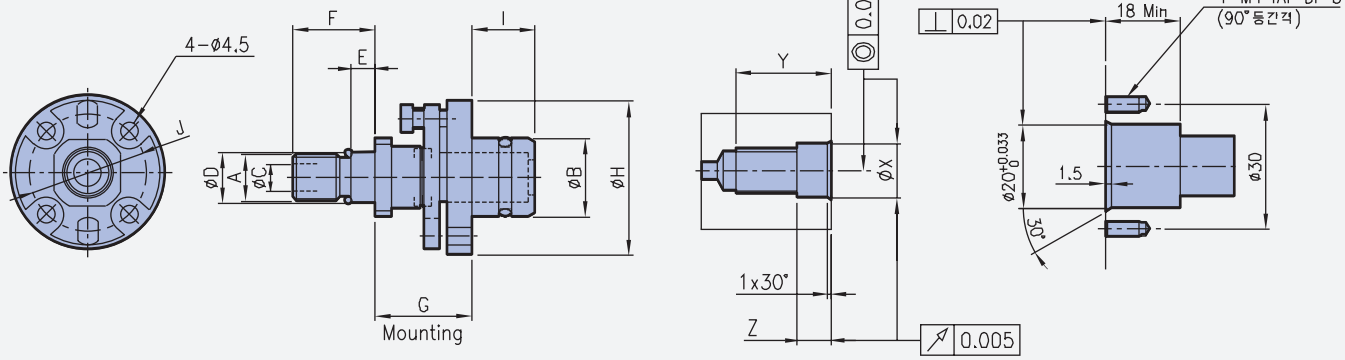


SRJ 02-103

- Available for high speed operating without media thank to Auto-off Seal.
- Silicon carbide seal: long time endurable quality for harsh operating condition.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating data

Max. pressure:	100bar
Max. RPM:	30,000
Max. Temperature:	70°C
Max.Flow:	26l/min



Spindle Detail Housing Detail

SRJ 02-103

Model	A	B	C	D	E	F	G	H	I	J
SRJ02-103-01	M12x1.25LH	$20^{-0.040}_{-0.061}$	7	$13^{0}_{-0.005}$	6	21	25±1.5	39.5	15.9	PCD30
SRJ02-103-02	M16x1.5LH	$20^{-0.040}_{-0.061}$	7	$18^{-0.006}_{-0.017}$	6	21	25±1.5	39.5	15.9	PCD30

Model	X	Y	Z
SRJ02-103-01	$13^{+0.011}_{+0.006}$	23	8.2
SRJ02-103-02	$18^{+0.007}_{0}$	23	8.2

● Please request for customized model and subject to technical change without notice.

SRJ 03-101

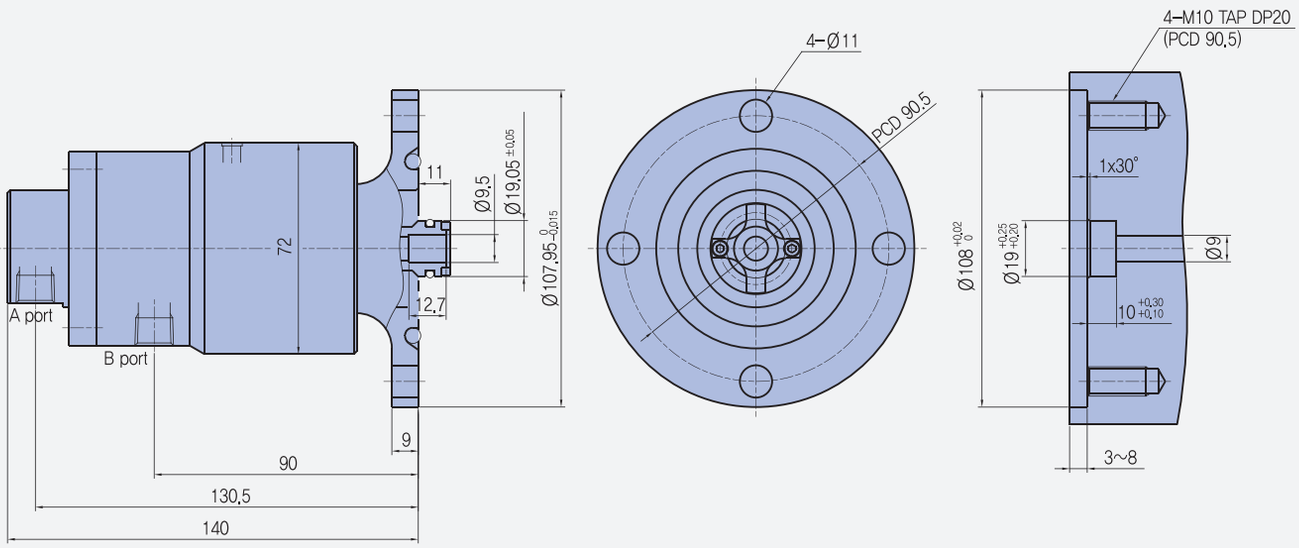
Hydraulic/Pneumatic Rotary Joint with two channels

- Anodizing Aluminum body.
- Stainless steel rotor due to resisting property for corrosion, abrasion, heat and cold condition.

Operating Data

Max. pressure:	A port - 70bar
Max. pressure:	B port - 10bar
Max. RPM:	6,000
Media:	A port - Coolant/Air
Media:	B port - Air
Max. Temperature:	70°C

SRJ 03-101

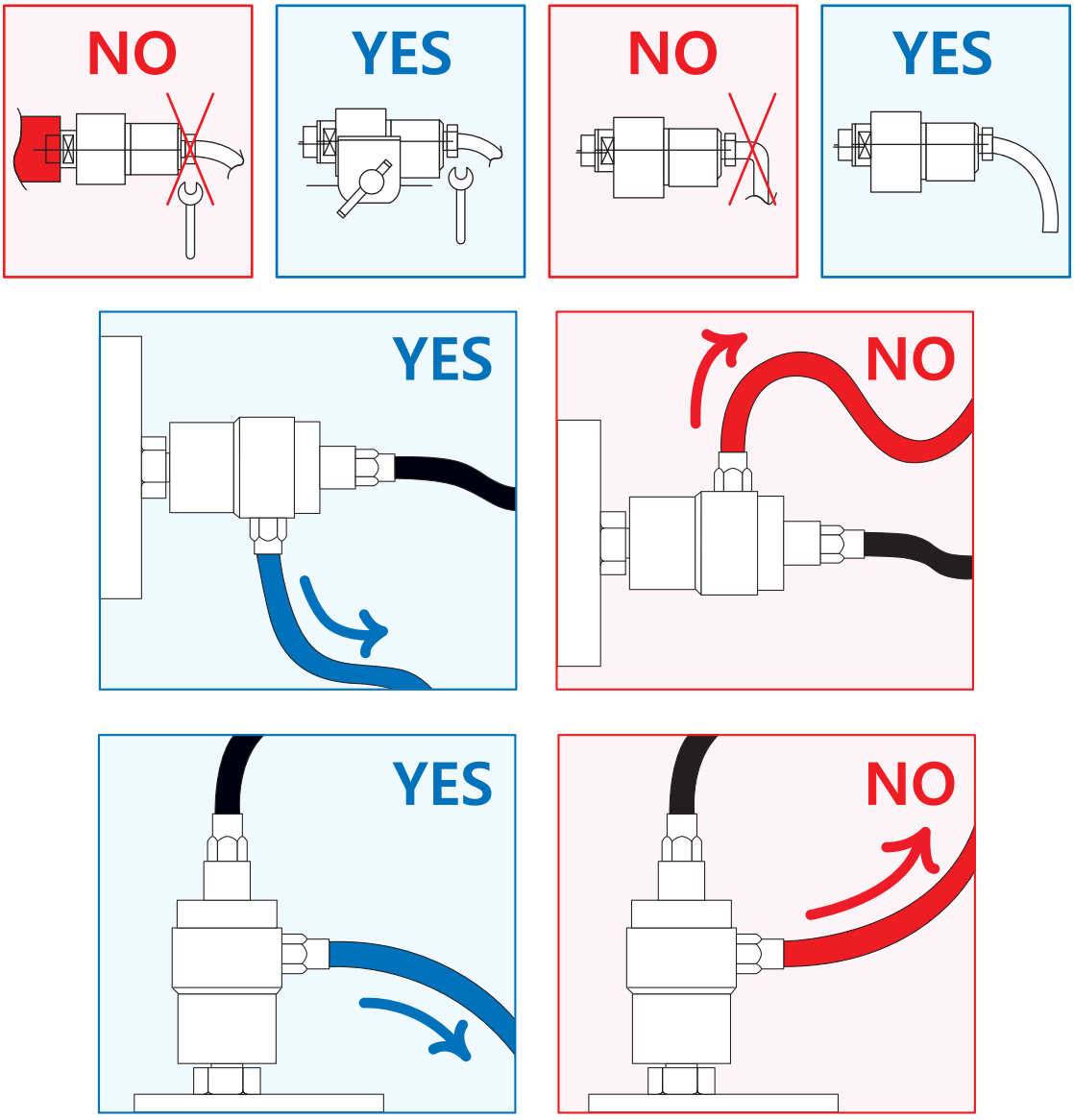


Housing Detail

- Please request for customized model and subject to technical change without notice.

Installation instruction

Attaching method and example for flexible hose



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Ordering Check List

Machine type	Machining Center	☐
	Lathe	☐
	Gun Drilling	☐
	Gang Head	☐
	Special Machine	☐
	Others	☐
Media	Coolant	☐
	Oil	☐
	Air-Oil mist	☐
	Lubricant air	☐
	Air	☐
	Others	☐
Max. Pressure		bar
Max. RPM		rpm
Max. Flow		L/min
Rotor style		
Customer		
Address		
Q'ty		

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