SGK

Catalog
SJ-30/e

pearl swivel joints



SHOWA GIKEN INDUSTRIAL CO., LTD.

STANDARD "PEARL" SWIVEL JOINT

Type	Style No.	Max. Pressure	Max. Temperature	Material	Nominal Size	Connection	Material of Standard Seal	Page No.
A 	1～6	4.1MPa {42kgf/cm²}	100℃	Ductile Cast Iron (Carbon Steel in part)	10A～100A	Female Taper Thread (Rc)	NBR	6
AS 	1～3	10A～50A 4.1MPa {42kgf/cm²} 65A～80A 2.1MPa {21kgf/cm²}	100℃	Stainless Steel	10A～80A	Female Taper Thread (Rc)	NBR	7
C 	1～6	2.1MPa {21kgf/cm²}	100℃	Weld Steel	40A～350A	Flange	NBR	8
CS 	1～6	2.1MPa {21kgf/cm²}	100℃	Weld Stainless Steel	40A～200A	Flange	NBR	9
B 	1～3	13.7MPa {140kgf/cm²}	100℃	Steel (Weld Steel)	10A～40A	Female Taper Thread (Rc)	NBR	10
SRK 	2/3	10A～40A 34.3MPa {350kgf/cm²} 50A～80A 24.5MPa {250kgf/cm²}	100℃	Steel (Weld Steel)	10A～80A	Female Taper Thread (Rc) (Flange)	NBR	11
PK 	1/3/4	2.3MPa {23kgf/cm²}	230℃	Body: Ductile Cast Iron Ball: Bronze	15A～50A	Female Taper Thread (Rc)	PTFE	12

Style number expresses the shape of passage and the shape of the moving part.
(Refer to Page.5 and the page of each type.)
Style numbers of PK series are different from the other swivel joints.
Contact us for other products than the above mentioned.
PTFE seal or FKM O-ring seals are available for higher temperatures or chemical products upon your request.

"Kalrez" is a registered trademark of Dupont.



WHAT IS “SWIVEL JOINT” ?

Pearl Swivel Joints are used when compressed or decompressed (below atmospheric pressure) fluid/gas is transported and the piping needs to be rotated or moved in optional direction of up/down, left/right, or forward/backward.
Movable piping can be made easily, safely and at a low cost, and piping can be secured.





●APPLICATIONS OF SWIVEL JOINT

* Piping for an operating medium such as oil pressure, water pressure or air pressure of industrial machinery, a hydraulic machine, machine tools, etc.
* Piping for a heat medium or coolant such as cold water, warm water, steam, thermal oil or brain of industrial machinery, a food machine, etc.
* The fluid transportation piping of cargo handling devices for various kinds of oil products, LPG, etc.
* Piping of the industrial use waste water treatment device
* Piping for feed and exhaust of the vacuum machinery

●FEATURES

These Swivel Joints can be rotated 360 degrees. They have large mechanical strength that endures large radial/thrust load and moment load due to double-row ball bearings and grease lubrication.

Since a ring-type packing such as O-ring is used in the sealing section, the structure remains simple while providing stable sealing that does not leak any pressurized fluid contained.

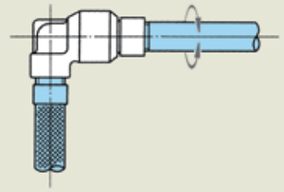
PK series, for high temperature application is incorporated with lubrication-free bearings section, and the sealing section adopts PTFE material and the mechanical seal to provide stable sealing.

HOW TO USE & APPLICATIONS OF “PEARL” SWIVEL JOINT

Style 2 (or Style 1)

They are used for transporting fluid to a rotating body.

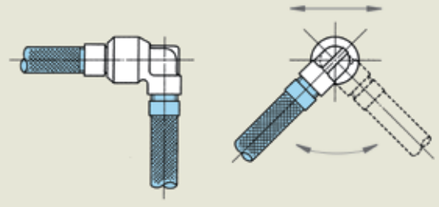
Example:
Hose reel,
Rotary coil hooker, etc.



Style 2

They are used when fluid is transported through rubber hose or flexible metal hose. Damage to the bending section generated by mechanical movement can be eliminated and the hose length reduced.

Example:
Construction machines,
Machine tools,
Hydraulic systems,
Cargo-handling systems, etc.

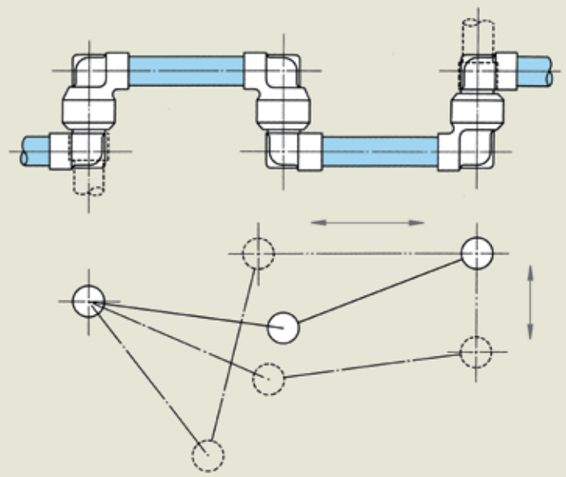


Style 3-3-3 (or Style 2-3-2)

Dogleg piping capable of planar movements can transport fluids from a fixed set of piping to a moving machine safely and with assurance.

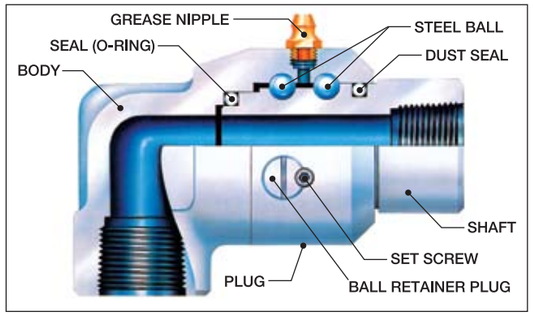
Example:
Hot press, Tire press,
Die-cast machine,
Injection molding machine, etc.

* The use of six swivel joints allows the piping to be moved in all directions (in three dimensions).



A series





●SERVICE CONDITIONS

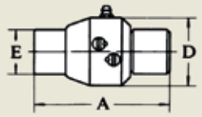
Max. Pressure : 4.1MPa (42kgf/cm²)
Max. Temperature : 100℃
Material : Ductile Cast Iron
(Carbon Steel in part)
Seal : NBR
Connection : Female Taper Thread (Rc)

●DESCRIPTION OF A series: Example for placing order

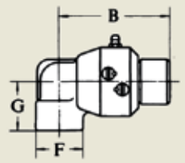
Type→Style No.→Size
A →1/2/3/4/5/6→10A/15A/20A/25A/32A/40A/50A/65A
80A/100A
Example: A-1 25A

* As to A series, PTFE or FKM seals are available for higher temperatures or chemical products .
* As models are different by the difference of seal materials, refer to the table of Materials of Special Packing on Page 7.

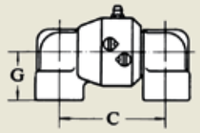
Style No.1



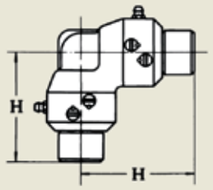
Style No.2



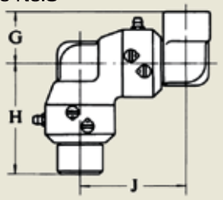
Style No.3



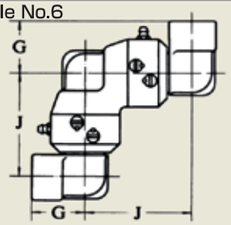
Style No.4



Style No.5



Style No.6

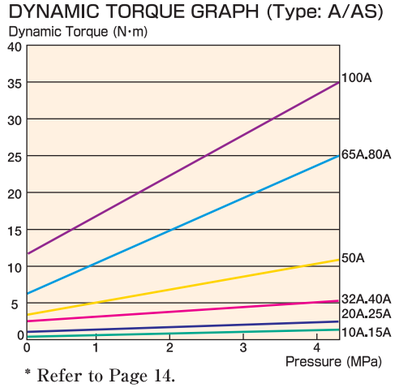


DIMENSIONS OF A series

Nominal Size		A	B	C	D	E	F	G	H	J
10A	3/8B	84	74	70	(44)	32	32	35	74	70
15A	1/2B	84	74	70	(44)	32	32	35	74	70
20A	3/4B	105	98	92	(60)	46	45	45	98	92
25A	1B	105	98	92	(60)	46	45	45	98	92
32A	1 1/4B	120	110	109	(77)	63	63	70	110	109
40A	1 1/2B	120	110	109	(77)	63	63	70	110	109
50A	2B	150	145	155	(98)	78	78	75	145	155
65A	2 1/2B	181	176	190	(132)	105	105	100	176	190
80A	3B	181	176	190	(132)	105	105	100	176	190
100A	4B	210	210	232	(160)	135	134	120	210	232

* in ( ): reference dimensions

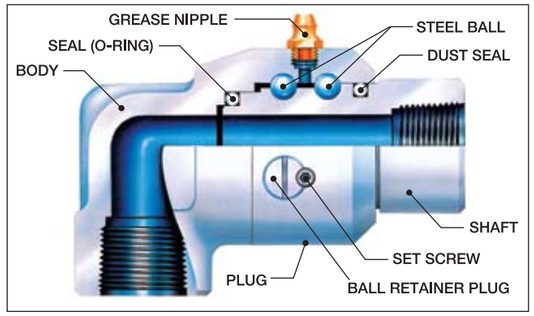
DYNAMIC TORQUE GRAPH (Type: A/AS)



* Refer to Page 14.

AS series (Material: Stainless Steel)





●SERVICE CONDITIONS

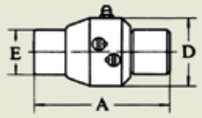
Max. Pressure
Size 10A～50A : 4.1MPa (42kgf/cm²)
Size 65A～100A : 2.1MPa (21kgf/cm²)
Max. Temperature : 100℃
Material : Stainless Steel
Seal : NBR
Connection : Female Taper Thread (Rc)

●DESCRIPTION OF AS series: Example for placing order

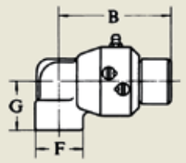
Type→Style No.→Size
AS→1/2/3→10A/15A/20A/25A/32A/40A/50A/65A/80A
Example: AS-1 25A

* As to AS series, PTFE or FKM seals are available for higher temperatures or chemical products.
* As models are different by the difference of seal materials, refer to the table of Materials of Special Packing below.

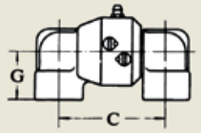
Style No.1



Style No.2



Style No.3



DIMENSIONS OF AS series

Nominal Size		A	B	C	D	E	F	G
10A	3/8B	84	74	70	(44)	32	32	35
15A	1/2B	84	74	70	(44)	32	32	35
20A	3/4B	105	98	92	(60)	44	43	45
25A	1B	105	98	92	(60)	44	43	45
32A	1 1/4B	120	110	109	(76)	56	62	70
40A	1 1/2B	120	110	109	(76)	62	62	70
50A	2B	150	145	155	(94)	75	78	88
65A	2 1/2B	180	200	230	(113)	95	91	69
80A	3B	190	220	250	(125)	110	105	78

* in ( ): reference dimensions

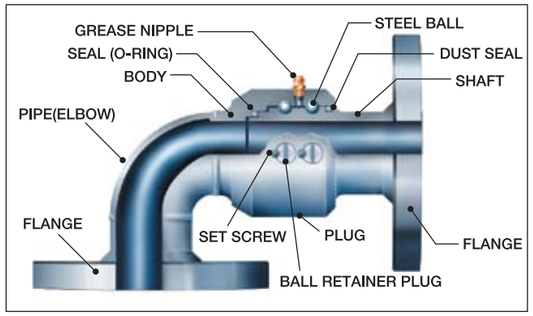
Materials of Special Packing

Material	Model of A series	Model of AS series	Max. Temperature
FKM	AV	ASV	160
PTFE seal	AP	ASP	180
FKM + PTFE coating	AQ	ASQ	160
Perflour	AM	ASM	—
Silicon rubber	AN	ASN	—
EPDM	AE	ASE	—
Kalrez	AX	ASX	—
Steam-resistant fluoro-rubber	AH	ASH	160
Other materials	AZ	ASZ	—

* Max. temperatures are given as a guide for use with hot water, steam, and hot oil. Please consult us for use with a special fluid.
* The grease must be changed for use with a fluid at 100℃ or more or with a special fluid.
* “Kalrez” is a registered trademark of DuPont.

C series





SERVICE CONDITIONS

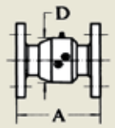
Max. Pressure : 2.1MPa (21kgf/cm²)
Max. Temperature : 100℃
Material : Welded steel
Seal : NBR
Connection : Flange (JIS10K)

DESCRIPTION OF C series: Example for placing order

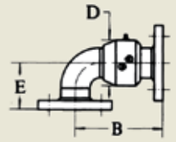
Type→Style No.→Size→ Flange specifications
C →1/2/3/4/5/6→40A/50A/65A/80A/100A/125A/150A
200A/250A/300A/350A
Example: C-1 40A x 10K

* As to C series, PTFE or FKM seals are available for higher temperatures and chemical products.
* As models are different by the difference of seal materials, refer to the table of Materials of Special Packing on Page 9.
* The standard flange is JIS 10K. JIS 20K and JIS 5K flange can also be manufactured upon request.
* Products of ANSI Class 150/Class 300 can also be manufactured if specified.
* A larger joint of 400A or more can also be manufactured upon request.

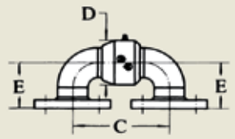
Style No.1



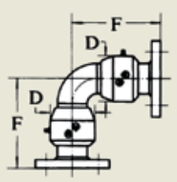
Style No.2



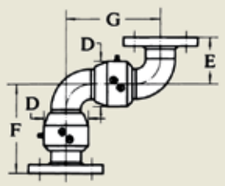
Style No.3



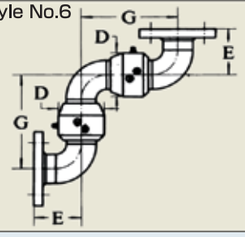
Style No.4



Style No.5



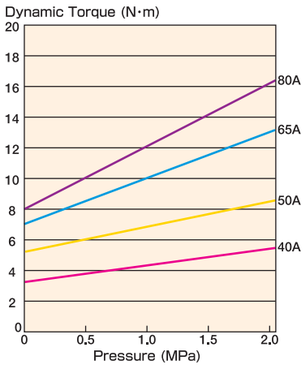
Style No.6



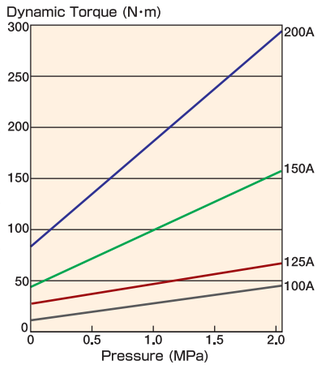
DIMENSIONS OF C series

Nominal Size		A	B	C	D	E	F	G
40A	1 1/2B	160	160	160	76	80	160	160
50A	2B	170	180	190	94	95	180	190
65A	2 1/2B	190	205	220	113	115	205	220
80A	3B	205	230	255	125	135	230	255
100A	4B	220	265	310	152	160	265	310
125A	5B	250	315	380	185	190	315	380
150A	6B	280	365	450	225	225	365	450
200A	8B	320	450	580	278	280	450	580
250A	10B	350	525	700	330	340	525	700
300A	12B	400	620	840	380	395	620	840
350A	14B	440	700	960	456	455	700	960

C/CS series DYNAMIC TORQUE GRAPH (Size: 40A～80A)



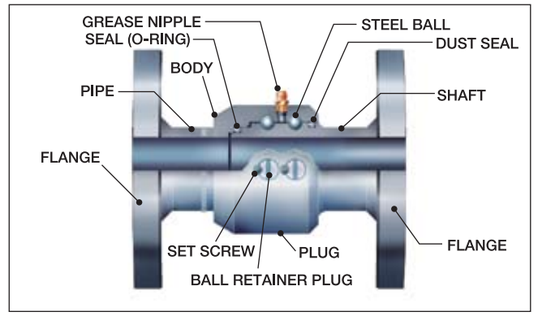
C/CS series DYNAMIC TORQUE GRAPH (Size: 100A～200A)



* Refer to Page 14.

CS series (Material: Stainless Steel)





SERVICE CONDITIONS

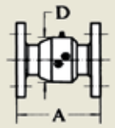
Max. Pressure : 2.1MPa (21kgf/cm²)
Max. Temperature : 100℃
Material : Welded Stainless Steel
Seal : NBR
Connection : Flange (JIS 10K)

DESCRIPTION OF CS series: Example for placing order

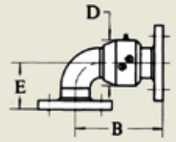
Type→Style No.→Size→ Flange specifications
CS→1/2/3/4/5/6→40A/50A/65A/80A/100A/125A/150A/200A
Example: CS-1 40A x 10K

* As to CS series, PTFE or FKM seals are available for higher temperatures and chemical products.
* As models are different by the difference of seal materials, refer to the table of Materials of Special Packing below.
* The standard flange is JIS 10K. JIS 20K and JIS 5K flange can also be manufactured upon request.
* Products of ANSI Class 150/Class 300 can also be manufactured if specified.
* A larger joint of 250A or more can also be manufactured upon request.
* A submerged type can also be manufactured upon request.

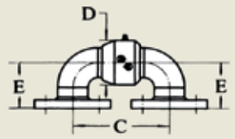
Style No.1



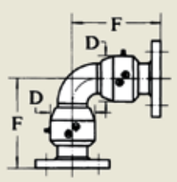
Style No.2



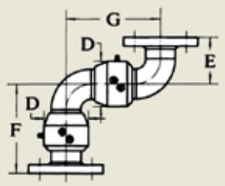
Style No.3



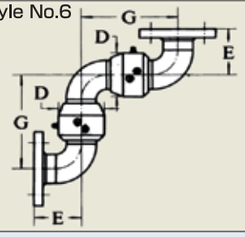
Style No.4



Style No.5



Style No.6



DIMENSIONS OF CS series

Nominal Size		A	B	C	D	E	F	G
40A	1 1/2B	160	160	160	76	80	160	160
50A	2B	170	180	190	94	95	180	190
65A	2 1/2B	190	205	220	113	115	205	220
80A	3B	205	230	255	125	135	230	255
100A	4B	220	265	310	152	160	265	310
125A	5B	250	315	380	185	190	315	380
150A	6B	280	365	450	225	225	365	450
200A	8B	320	450	580	278	280	450	580

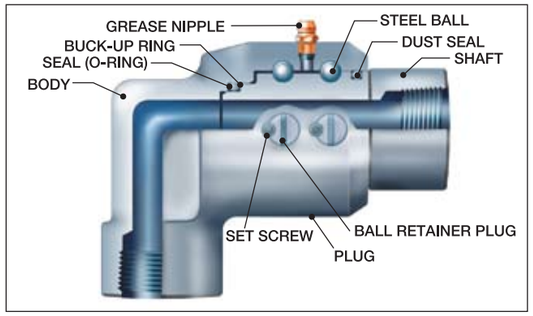
Materials of Special Packing

Material	Model of C series	Model of CS series	Max. Temperature
FKM	CV	CSV	160
PTFE seal	CP	CSP	180
FKM + PTFE coating	CQ	CSQ	160
Perflour	CM	CSM	—
Silicon rubber	CN	CSN	—
EPDM	CE	CSE	—
Kalrez	CX	CSX	—
Steam-resistant fluoro-rubber	CH	CSH	160
Other materials	CZ	CSZ	—

* Max. temperature is given as a guide for use with hot water, steam, and hot oil. Please consult us for use with a special fluid.
* The grease must be changed for use with a fluid at 100℃ or more or with a special fluid.
* "Kalrez" is a registered trademark of DuPont.

B series





●SERVICE CONDITIONS

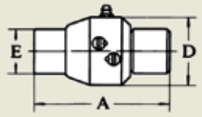
Max. Pressure : 13.7MPa (140kgf/cm²)
Max. Temperature : 100℃
Material : Steel (Weld Steel)
Seal : NBR
Connection : Female Taper Thread (Rc)

●DESCRIPTION OF B series: Example for placing order

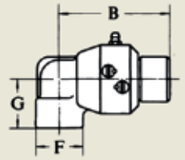
Type→Style No.→Size
B → 1/2/3 →10A/15A/20A/25A/32A/40A
Example: B-1 25A

* As to B series, PTFE or FKM seals are available for higher temperatures or chemical products .

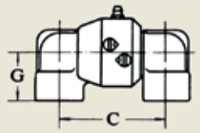
Style No.1



Style No.2



Style No.3

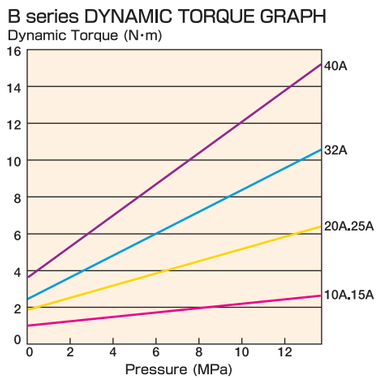


DIMENSIONS OF B series

Nominal Size		A	B	C	D	E	F	G
10A	3/8B	91	77	73	(48)	32	32	49
15A	1/2B	91	77	73	(48)	32	32	49
20A	3/4B	118	108	107.5	(66)	46	46	63
25A	1B	118	108	107.5	(66)	46	46	63
32A	1 1/4B	120	130	135	(72)	58	58	45
40A	1 1/2B	120	134	145	(78)	63	63	52

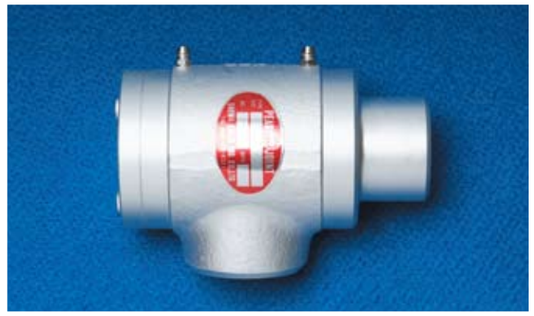
* in ( ): reference dimensions

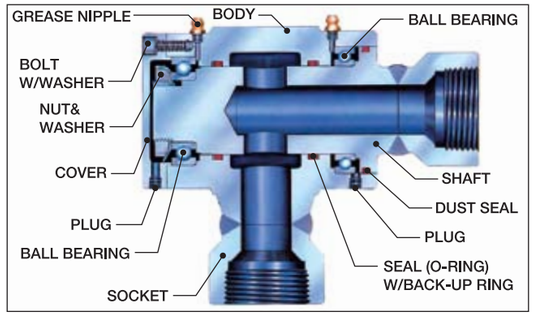
B series DYNAMIC TORQUE GRAPH



* Refer to Page 14.

SRK series PRESSURE BALANCED SWIVEL JOINT





●SERVICE CONDITIONS

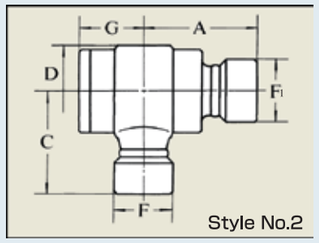
Max. Pressure
Size 10A～40A : 34.3MPa (350kgf/cm²)
Size 50A～80A : 24.5Mpa (250kgf/cm²)
Max. Temperature : 100℃
Material : Weld Steel
Seal : NBR
Back-up Ring : PTFE
Connection : Female Taper Thread (Rc)

●FEATURES

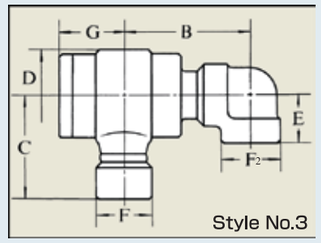
1. The well-balanced pressure design stabilizes the thrust load caused by the high-pressure fluid inside and prevents so that excessive load is not added to the bearing.
   They endure extreme pressures and provide stable operation with little rotary torque fluctuations due to pressure.
2. Large mechanical strength due to an <O-ring> with special backup ring used in the seal section and 2 <radial ball bearings> contained in the bearing section.
3. Maintenance is easy, with simple structure and <O-ring> and <backup ring> being the only consumables.

●APPLICATIONS

This joint is suitable for movable piping of various kinds of hydraulic machinery.
Use the joint especially to the part of high pressure, frequent movement or to the part where the service life of the joint currently in use is short.



Style No.2



Style No.3

●DESCRIPTION OF SRK series: Example for placing order

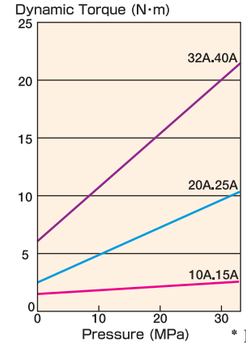
Type→Style No.→Size
SRK→2/3→10A/15A/20A/25A/32A
40A/50A/65A/80A
Example: SRK-2 25A

* FKM seals are available for higher temperatures or chemical products.
* Flange-type joints (SRK-2F and 3F) can also be manufactured upon request. Please inform the flange specifications.

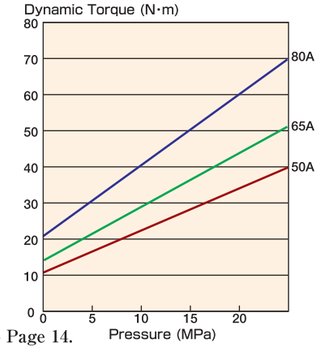
DIMENSIONS OF SRK series

Nominal Size		A	B	C	D	E	F	F1	F2	G
10A	3/8B	60	85	40	60	26	33	33	27	40
15A	1/2B	60	85	40	60	29	33	33	33	40
20A	3/4B	82	107	55	75	35	53	38	38	57
25A	1B	82	107	55	75	38	53	47	47	57
32A	1 1/4B	115	130	105	95	45	57	57	57	69
40A	1 1/2B	120	130	110	95	51	64	68	64	69
50A	2B	135	155	130	125	60	77	77	77	88
65A	2 1/2B	165	180	155	155	67	95	95	96	94
80A	3B	170	205	170	170	86	114	114	114	100

SRK/SSH series DYNAMIC TORQUE GRAPH (Size:10A~40A)



SRK/SSH series DYNAMIC TORQUE GRAPH (Size:50A~80A)

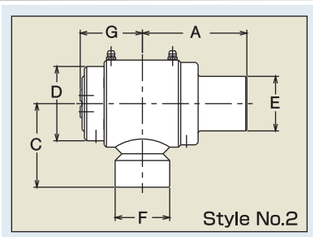


* Refer to Page 14.

SSH series (Material: Stainless Steel 10A/15A/20A/25A)

DIMENSIONS OF SSH series

Nominal Size		A	C	D	E	F	G
10A	3/8B	59	50	50	38	36	44
15A	1/2B	59	50	50	38	36	44
20A	3/4B	90	72	75	47	47	54
25A	1B	90	72	75	47	47	54

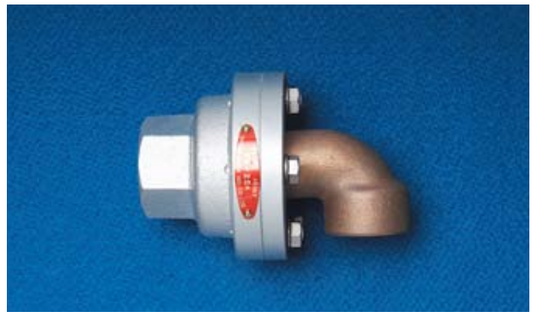


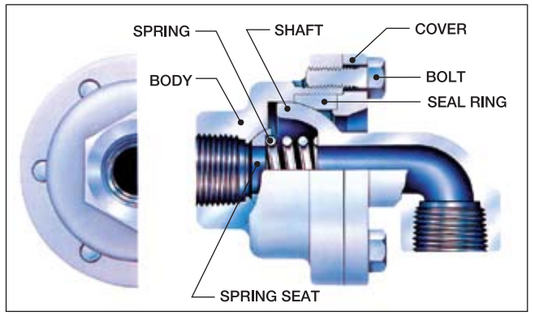
Style No.2

●DESCRIPTION OF SSH series: Example for placing order

Type→Style No.→Size
SSH→2→10A/15A/20A/25A
Example: SSH-2 25A

* Style No. 3 and sizes larger than 32A can also be manufactured upon request.





●SERVICE CONDITIONS

Max. Pressure	: 2.3MPa (23kgf/cm²)
Max. Temperature	: 230℃
Material	:
Body	: Ductile Cast Iron
Shaft(Ball)	: Bronze
Seal	: PTFE
Connection	: Female Taper Thread(Rc)

●APPLICATIONS

＊ Rubber & Plastics Industry
＊ Plywood Industry
Hot press・Tire press・Tube press・
Banbury mixer・Kneader

●FEATURES

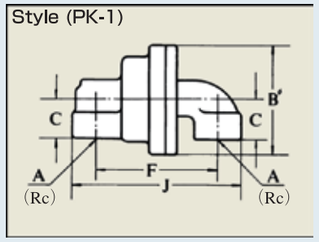
1. Self alignment makes piping easy.
2. Easy handling and piping due to small size and light weight
3. No need for lubrication, easy to maintain

●DESCRIPTION OF SSH series : Example for placing order

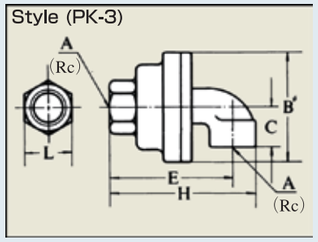
Type→Style No.→Size
PK→1/3/4→15A/20A/25A/32A/40A/50A
Example: PK-1 25A
(It is expressed with "PK 25A 1" on the name plate of the actual joint.)

* Type PK-○S is also available. Type PK-○S incorporates a spacer between the body and axis of rotation to reduce eccentricity of the axis of rotation.
PK→1S/3S/4S→15A/20A/25A/32A/40A/50A
* PKZ series for alternating heating and cooling operations is also available upon request.
PKZ→1/3/4→15A/20A/25A/32A/40A/50A
PKZ→1S/3S/4S→15A/20A/25A/32A/40A/50A
* Style numbers of PK series are different from the other swivel joints.

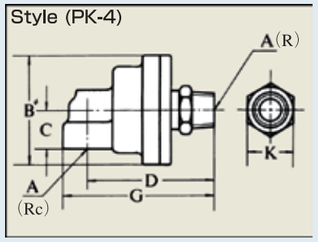
Style (PK-1)



Style (PK-3)



Style (PK-4)

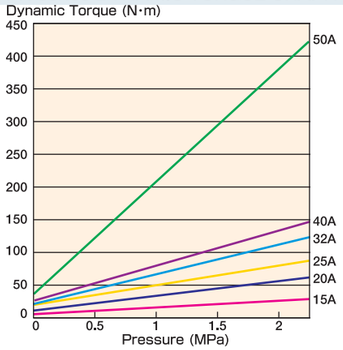


* Please contact us for use of the straight type PK-2.

DIMENSIONS OF PK series

Nominal Size		A	B	C	D	E	F	G	H	J	K	L
15A	1/2B	1/2	70	30	84	82	75	100	98	107	24	30
20A	3/4B	3/4	85	30	97	93	92	116	111	130	34	38
25A	1B	1	100	38	110	120	110	135	143	157	38	48
32A	1 1/4B	1 1/4	118	45	131	145	140	159	173	196	43	57
40A	1 1/2B	1 1/2	126	55	140	150	140	170	180	202	54	63
50A	2B	2	150	70	165	170	165	203	208	240	63	77

PK series DYNAMIC TORQUE GRAPH



* Refer to Page 14.

A series

Nominal Size		Style No. 1	2	3	4	5	6
10A	3/8B	0.6	0.65	0.75	1.0	1.1	1.2
15A	1/2B	0.55	0.6	0.7	0.9	1.0	1.1
20A	3/4B	1.3	1.4	1.6	2.2	2.3	2.5
25A	1B	1.2	1.3	1.5	2.1	2.2	2.4
32A	1 1/4B	2.3	2.7	3.2	3.8	4.5	5.2
40A	1 1/2B	2.2	2.6	3.3	3.8	4.4	5.0
50A	2B	4.5	5.2	6.3	8.0	9.2	10.2
65A	2 1/2B	9.8	11.8	14.3	17.6	20.2	22.6
80A	3B	9.0	11.0	13.5	16.6	19.2	21.8
100A	4B	14.5	17.6	20.5	26.5	29.5	32.3

AS series

Nominal Size		Style No. 1	2	3
10A	3/8B	0.6	0.7	0.9
15A	1/2B	0.55	0.65	0.85
20A	3/4B	1.3	1.55	1.9
25A	1B	1.2	1.5	1.75
32A	1 1/4B	2.0	2.8	3.8
40A	1 1/2B	2.1	2.8	3.6
50A	2B	4.0	5.5	7.3
65A	2 1/2B	5.5	6.2	6.9
80A	3B	7.0	7.6	8.6

B series

Nominal Size		Style No. 1	2	3
10A	3/8B	0.8	1.0	1.2
15A	1/2B	0.7	0.9	1.1
20A	3/4B	1.9	2.2	2.8
25A	1B	1.8	2.1	2.7
32A	1 1/4B	2.2	2.8	3.4
40A	1 1/2B	2.3	3.4	4.4

PK series

Nominal Size		Style No. 1	3	4
15A	1/2B	1.1	1.0	1.0
20A	3/4B	1.8	1.6	1.6
25A	1B	2.8	2.6	2.5
32A	1 1/4B	4.2	4.0	3.9
40A	1 1/2B	5.2	4.9	5.0
50A	2B	8.0	7.8	7.0

SRK series

Nominal Size		Style No. 2	3
10A	3/8B	1.6	1.7
15A	1/2B	1.6	1.7
20A	3/4B	3.7	3.9
25A	1B	3.8	4.1
32A	1 1/4B	7.0	7.6
40A	1 1/2B	7.3	8.0
50A	2B	12.6	13.6
65A	2 1/2B	23.0	24.8
80A	3B	28.8	31.8

C series (Flange: JIS10K)

Nominal Size		Style No. 1	2	3	4	5	6
40A	1 1/2B	5.3	5.5	5.7	7.2	7.4	7.6
50A	2B	7.2	7.6	8.0	10.6	11.0	11.3
65A	2 1/2B	10.4	11.0	11.5	15.3	15.8	16.4
80A	3B	11.3	12.1	13.0	17.0	17.9	18.7
100A	4B	15.6	17.0	18.5	24.6	26.0	27.4
125A	5B	25	27	29	39.5	42	44
150A	6B	39	42.5	46	65	68.5	72
200A	8B	59	67	74	104	112	119
250A	10B	87	101	114	138	168	182
300A	12B	125	145	165	228	248	268
350A	14B	170	202	232	315	345	375

CS series (Flange: JIS10K)

Nominal Size		Style No. 1	2	3	4	5	6
40A	1 1/2B	5.3	5.5	5.7	7.2	7.4	7.6
50A	2B	7.2	7.6	8.0	10.6	11.0	11.3
65A	2 1/2B	10.4	11.0	11.3	15.3	15.6	16.1
80A	3B	11.3	12.1	13.0	17.0	17.9	18.7
100A	4B	15.6	16.9	18.2	24.5	25.7	26.9
125A	5B	25	27	30	39.5	43	45
150A	6B	39	42.5	46	65	68.5	72
200A	8B	59	68	76	105	114	122

INSTALLATION & MAINTENANCE SUGGESTIONS

1. Standard packing material NBR (Buna-N) cannot be used, for the fluid such as phosphoric ester-type hydraulic oil, chlorinated hydrocarbon-type hydraulic oil, organic solvent or acid,

2. The ball bearing section of the joint is finished precisely and has no backlash, restricting the movement of pipeline in the direction of joint swivel. Therefore, please make careful examination of the pipeline movement before selecting the style.

3. The life of joint depends largely on the size of moment load. Please avoid giving large moment load onto the joint when designing.

4. Swivel joints are not suited for successive rotation unlike rotary joint. However, they have sufficient properties to be used in extremely low speed.

5. While lubrication at packing replacement is normally sufficient for use under room temperature, lubrication of once a week may be necessary if they are used under high temperature.

6. When a joint is used correctly, the limit of packing use is when leak is discovered. Replace the packing with a new one or replace the joint with a new one in this case.

ORDERING INFORMATION

The following data is required when placing order:

1. Type of joint
2. Product (fluid) to be handled
3. Working & Maximum temperature and pressure
4. Style & Size of joint
5. Frequency of movement
6. Working environment: Ex) Use in a clean room, etc.

* Any other special requirements

DYNAMIC TORQUE GRAPH (Refer to Page 6,8,10,11 & 12)

* The rotating torque varies with the storage condition and storage period of a swivel joint and the type of fluid used.

* This data represents typical values obtained by measurements according to internal test standards and does not represent guaranteed values.

* The starting torque is larger than the dynamic torque. When wringing (adhesion phenomenon) occurs, the starting torque is particularly large. It is not an abnormality.

FREQUENTLY ASKED QUESTIONS

Q. Can I use the swivel joint for running steam?
A. Yes. Please select the type“PK”. If there is a problem with the dimensions and rotating torque, you can use the swivel joint with low-pressure steam up to about 160℃ by changing the packing material and grease of “A” and “C”.

Q. Is there no problem with using the swivel joint under high rotation speed?
A. The swivel joint can be used even under high rotation speed, though its service life will be shortened.

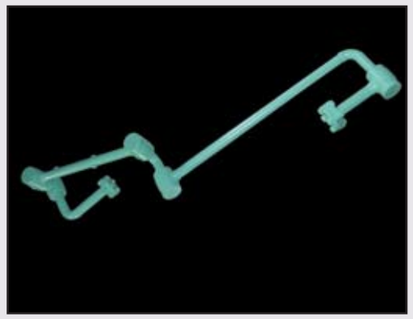
Q. Can I use the swivel joint by connecting it to the end of a hose?
A. The swivel joint has a bearing structure and is sealed with an O-ring. Therefore, its rotating torque is larger than that of a rotary joint. There is no advantage in using the swivel joint unless the hose has adequate strength.

Q. The swivel joint fails to operate properly.
A. It is time to replace the swivel joint.

Q. Fluid leaks when the swivel joint is in a certain position during operation.
A. There is probably a problem regarding installation.

SPECIAL PRODUCTS

We, SHOWA GIKEN INDUSTRIAL CO., LTD., have manufactured many kinds of special Swivel Joint products answering various demands of the customers.
Contact us for special requests.



LINE ASSEMBLY OF SWIVEL JOINT TYPE: SRK

This Line Assembly is manufactured by combining several high pressure Swivel Joints type: SRK and pipes. Examining the starting point and a stroke of the Line Assembly, it is designed and manufactured.

Application : Rolling mill for iron manufacturing
Various kinds of hydraulic piping
Two-dimensional or three-dimensional movable piping for high pressure



BALL JOINT・BALL EXPANSION JOINT

Ball Joint can be used for rotational movement and eccentric movement at the same time.
Ball Expansion Joint that can be used for the expansion of the piping as well as rotational movement and eccentric movement can also be manufactured.

Application : Piping for iron manufacturing
Piping for anti-ground displacement measures, etc.

The contents of this catalog subject to change without notice
Numerical value of this catalog is reference value. It does not always guarantee the function under all conditions.