SOH SERIES REACH

Oldham Coupling

SOH Series Classification

- SOH series transmits motion through the middle spacer and is particularly excellent for absorption of parallel misalignment.
- It has a simple structure for easier self-maintenance.
- It enables reaction force on the shaft to be reduced by moving the spacer even though there is parallel misalignment.
- Sung-il Machinery provides various spacer types which are allowed to be used in special circumstances.

Spacer Material	Model	Hub Material	Set-screw	Side-clamp
Polyacetal(POM)	SOH			
/ General	SOHM (Spacer-saving)	High Strength Aluminum Alloy	-	
PEEK / For Vacuum application	SOHMP		-	
VESPEL(PI) / For High-temperature application)	SOHV	Stainless Steel	-	

Center-Through Spacer Option is available



Center-Solid (no mark) Center-Through (TH)

- If the shaft has to be inserted deeper than L₁ value, we can provide appropriate center-through sleeves.
- Please indicate additional mark (TH) next to the part no. Please refer to "HOW TO ORDER" for more details.
- Center-Through (TH) is standard for the following models, SOH-6,8,10,12, SOHM-12C, SOH-70C, 90C, 120C and all sizes of SOHMP & SOHV series.
- The standard color of spacer for SOH-6, 8, 10, 12 is white, but the material is the identical Polyacetal(POM).

Model	Max. standard ID	Spacer-TH ID
SOH-16	Ф6	Φ7
SOH-20	Ф8	Ф10
SOH-25	Ф10	Ф14
SOH-32	Ф15	Ф16
SOH-43	Ф19	Ф21
SOH-53	Φ25	Ф24
SOH-57	Ф28	Ф26
SOH-70	Ф40	Ф35
SOH-90	Ф50	Ф40
SOH-120	Ф60	Ф50

Oldham Coupling





Structure and Material

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	Anodizing
Spacer	Polyacetal(POM)	-
Screw	SCM435	Black Oxide

% The standard surface treatment for SOH-70C, 90C and 120C (Side-clamp) is Electroless Nickel Plating.

% There is no surface treatment for SOH-6,8,10,12 (Set-screw) and SOHM-12C(Side-clamp).

Product Features & Application

High Torque (Dur	rability)	0
Torsional Stiffnes	SS	\bigtriangleup
Vibration Absorp	tion	0
Misalignment Ab	sorption	\$
nsulation of Elec	tric Curren	0
Minimized Reacti	ion Force	\$
Oil Resistance		\bigtriangleup
	Servo	\bigtriangleup
Applicable	Stepping	0
Motors	Encoder	0
	General	\$
Permissible Tem	perature	-20°C ~ 80°C

Application : Part feeder, Cartesian Robot, Logistics facilities

Temperature Correction Factor

Please modify rated/max. torque value with the below temperature correction factor when it's higher than 30°C.

Ambient Temperature	Correction Factor
-20 °C ~ 30 °C	1.0
30 °C ~ 40 °C	0.8
40 °C ~ 60 °C	0.7
60 °C ~ 80 °C	0.55

Clamping Methods

Set-screw	General	\bigtriangleup
(No mark)	With Keyway	0
	General	0
Side-clamp (C)	Hub Split	\bigtriangleup
	With Keyway	0
Taper-ring (T)		Х

% You may check the sizes that Side-clamp Hub Split type is applicable from the "Dimensions / Performance" tables in the following pages.

How to Order



Oldham Coupling

Set-screw



Dimensions / Performance

SOH-(no mark)

	Size (±0.3mm)				Screw	Rated	Max.	Max rnm	Moment of	Static Torsional	Mass	Permiss	sible Misali	gnment	
Model	D	L	L1	F	Size	Fastening Torque(N·m)	Torque (N∙m)	Torque (N∙m)	(min ⁻¹)	Inertia (kg∙m²)	Stiffness (N·m/rad)	(g)	Angular (°)	Parallel (mm)	End-play (mm)
SOH-6	5.9	8.4	2.5	1.3	M2	0.3	0.2	0.4	22,000	2.5 x 10 ⁻⁹	5	0.5	1.5	0.5	0.05
SOH-8	7.9	9.8	2.5	1.3	M2	0.3	0.5	1	20,000	8.4 x 10 ⁻⁹	10	0.9	1.5	0.7	0.05
SOH-10	9.9	10.4	2.9	1.5	M2	0.3	0.7	1.4	18,000	2.4 x 10 ⁻⁸	25	1.7	1.5	0.9	0.05
SOH-12	11.9	14.5	3.9	2	М3	0.7	0.9	1.8	15,000	6.3 x 10 ⁻⁸	55	3	1.5	1	0.05
SOH-16	16	17.9	4.7	2.2	М3	0.7	1	2	13,000	2.4×10 ⁻⁷	65	7	1.5	1	0.1
SOH-20	20	19.9	5.1	2.4	M4	1.7	1.5	3	11,000	6.4×10 ⁻⁷	120	12	1.5	1.5	0.1
SOH-25	25.5	25.4	6.9	3.1	M4	1.7	2.5	5	10,000	2.2×10 ⁻⁶	200	24	1.5	2	0.1
SOH-32	32	31.9	8	3.8	M5	4	7	14	9,000	6.3×10 ⁻⁶	620	41	1.5	2.5	0.2
SOH-43	43	52	16.5	7.1	M5	4	12.5	25	8,000	3.7×10-5	1,200	135	1.5	3	0.15
SOH-53	53	58.3	19.5	7.5	M6	7	20	40	7,000	1.0×10-4	1,400	228	1.5	3.2	0.15
SOH-57	57	76.2	26.9	9.9	M8	15	34	68	6,000	1.8×10-4	2,600	345	1.5	3.5	0.2
SOH-70	73	75.5	25	12.2	M8	15	60	120	4,500	4.5×10-4	5,000	567	1.5	3.5	0.2

SOH-S

			Size (±	0.3mm)				Screw	Rated	Max.	Max rom	Moment of	Static Torsional	Mass	Permis	sible Misali	gnment
Model	р	1	1.			F	Sizo	Fastening	Torque	Torque	(min ⁻¹)	Inertia	Stiffness	(σ)	Angular	Parallel	End-play
								Torque(N·m)	(N·m)	(N∙m)		∣ (kg·m²)	(N∙m/rad)			(mm)	(mm)
SOH-16S	16	20.9	4.7	7.7	2.2	3.8	М3	0.7	1	2	13,000	2.7×10-7	65	7.9	1.5	1	0.1
SOH-20S	20	22.8	5.1	8	2.4	3.6	M4	1.7	1.5	3	11,000	7.5×10 ⁻⁷	120	13	1.5	1.5	0.1
SOH-25S	25.5	28.7	6.9	10.2	3.1	4.9	M4	1.7	2.5	5	10,000	2.6×10 ⁻⁶	200	27.2	1.5	2	0.1
SOH-32S	32	38.3	8	14.4	3.8	5.5	M5	4	7	14	9,000	8.1×10 ⁻⁶	620	52	1.5	2.5	0.2

SOH-SS

Model		Size (±	0.3mm)			Screw	Rated	Max. Max rom		Moment of	Moment of Static Torsional		Permissible Misalignment			
Model	D		L ₁	F1	Size	Fastening Torque(N·m)	Torque (N∙m)	Torque (N∙m)	(min ⁻¹)	Inertia (kg∙m²)	Stiffness (N·m/rad)	(g)	Angular (°)	Parallel (mm)	End-play (mm)	
SOH-8SS	7.9	12.6	4.6	2.3	М3	0.7	0.5	1	20,000	1.3 x 10 ⁻⁸	10	1.5	1.5	0.7	0.05	
SOH-16SS	16	23.9	7.7	3.8	М3	0.7	1	2	13,000	3.4×10 ⁻⁷	65	9.3	1.5	1	0.1	
SOH-20SS	20	25.7	8	3.6	M4	1.7	1.5	3	11,000	8.9×10 ⁻⁷	120	15	1.5	1.5	0.1	
SOH-25SS	25.5	32	10.2	4.9	M4	1.7	2.5	5	10,000	2.9×10 ⁻⁶	200	31	1.5	2	0.1	
SOH-32SS	32	44.7	14.4	5.5	M5	4	7	14	9,000	9.5×10 ⁻⁶	620	63	1.5	2.5	0.2	

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

- Please modify rated/max. torque value with temperature correction factor when it's higher than 30 °C.

Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft. (Set-screw type is usually less durable than other clamping method, thus please consider it has a complementary option e.g. keyway along with.)

Oldham Coupling

Standard I	Standard Inner Diameter (ID)																			
								Stand	dard In	ner Dia	meter	(d_1, d_2)	(mm)							
Model		1.5		2.5		3		4.5			6.35			9.52	5	10	11	12	14	15
SOH-6	٠	•	•																	
SOH-8	٠			•																
SOH-10			•				•													
SOH-12							•	•	•											
SOH-16							•		•	٠										
SOH-20							•		•	٠	•	•								
SOH-25									•	٠	•	•	•	•		•				
SOH-32										٠	•		•	•		•		•	•	•
							_	Stan	lard In	ner Dia	meter	(d. d.)	(mm)				_			
Model			9.525	10	11	12	14	15	16	18	19	20	22	24	25	25.4	28	30	32	35
SOH-43	•	•	•	•	•			•	•		•									
SOH-53				•		•														
SOH-57								•	•	•	•	•	•	•	•		•			
SOH-70								•	•	•	•	•		•	•	•	•	•	•	•

• The recommended shaft tolerance is h7.

Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
Keyway is available. (Optional)

Oldham Coupling

Side-clamp



Dimensions / Performance

SOH-C

		Siz	e (±0.3m	nm)			Screw	Rated	Max		Moment of	Static		Permiss	ible Misal	ignment	Side-
Model	D		L1	L₃		Size	Fastening Torque (N∙m)	Torque (N·m)	Torque (N·m)	Max. rpm (min ^{.1})	Inertia (kg·m²)	Torsional Stiffness (N·m/rad)	Mass (g)	Angular (°)	Parallel (mm)	End- play (mm)	clamp Hub Split (W)
SOH-16C	16	23.9	7.7	-	2.7	M2.6	1	1	2	13,000	3.1×10 ⁻⁷	65	8.5	1.5	1	0.1	Х
SOH-20C	20	25.7	8	-	2.8	M2.6	1	1.5	3	11,000	8.2×10 ⁻⁷	120	14.2	1.5	1.5	0.1	Х
SOH-25C	25.5	32	10.2	-	3.5	М3	1.7	2.5	5	10,000	2.7×10 ⁻⁶	200	29.3	1.5	2	0.1	Х
SOH-32C	32	44.7	14.4	-	4.9	M4	3.5	7	14	9,000	9.2×10 ⁻⁶	620	59.6	1.5	2.5	0.15	Х
SOH-43C	43	52	16.5	-	5.8	M5	8	12.5	25	8,000	3.4×10 ⁻⁵	1,200	127	1.5	3	0.15	Х
SOH-53C	53	58.3	19.5	-	6.3	M5	8	20	40	7,000	9.1×10 ⁻⁵	1,400	217	1.5	3.2	0.2	Х
SOH-57C	57	76.2	26.9	-	7.7	M6	13	34	68	6,000	1.6×10 ⁻⁴	2,600	329	1.5	3.5	0.2	Х
SOH-70C	73	81.5	28	20	10	M8	30	65	130	4,500	5.4×10 ⁻⁴	5,000	670	1.5	3.5	0.3	0
SOH-90C	88	97	33.5	25	12	M10	50	105	210	4,500	1.2×10-3	7,500	1,240	1.5	4	0.35	0
SOH-120C	118	138	40.5	26.5	13	M12	90	200	400	3,500	6.5×10-3	14,000	2,600	1.5	4.5	0.4	0

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

• Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.

• Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

SOH-SC (Combination)

			Size (±	0.3mm)			Sc	rew	Rated	Max		Moment of	Static		Permissible Misalignment				
Model	D		L1	L ₂	F_1	F ₂	Size	Fastening Torque (N·m)	Torque (N·m)	Torque (N·m)	Max. rpm (min ⁻¹)	Inertia (kg·m²)	Torsional Stiffness (N·m/rad)	Mass (g)	Angular (°)	Parallel (mm)	End-play (mm)		
SOH-16SC	16	20.9	4.7	7.7	2.2	2.7	M3/M2.6	0.7/1	1	2	13,000	2.9×10 ⁻⁷	65	7.5	1.5	1	0.1		
SOH-20SC	20	22.8	5.1	8	2.4	2.8	M4/M2.6	1.7/1	1.5	3	11,000	7.2×10 ⁻⁷	120	12.6	1.5	1.5	0.1		
SOH-25SC	25.5	28.7	6.9	10.2	3.1	3.5	M4/M3	1.7/1.7	2.5	5	10,000	2.6×10 ⁻⁶	200	26	1.5	2	0.1		
SOH-32SC	32	38.3	8	14.4	3.8	4.9	M5/M4	4/3.5	7	14	9,000	7.8×10 ⁻⁶	620	50.3	1.5	2.5	0.2		

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

- Please modify rated/max. torque value with temperature correction factor when it's higher than 30° C.

• Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

• The values about Screw (size and fastening torque) are stated in left-to-right order. (S/C=Set-screw/Side-clamp)

Oldham Coupling

Standard Inner Diameter (ID)



• The recommended shaft tolerance is h7.

Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.

• Keyway is available. (Optional)

Slip Torque

- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

레코 미국	Max. Torque									Sli	o Tor	que	(N.m) by I	nner	Dian	neter	(d ₁ ,	d ₂)								
세품 면오	(N.m)	3		5	6	6.35	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	35	40	42	45	50
SOH-16C	2	0.5	1																								
SOH-20C	3		1	1.5	2																						
SOH-25C	5			2	3.5	3.9																					
SOH-32C	14				7	7.2																					
SOH-43C	25						15	15.7	18	18.2	21																
SOH-53C	40								21	22.4	23.8	30															
SOH-57C	68												42	46.2	49	51.8	56.7										
SOH-70C	130												60	65	85	90	100	120									
SOH-90C	210												40	50	65	80	85	88	90	95	110	130	170	180	190	200	210
SOH-120C	400																			200	250	275	300	320	330	350	380

SOH SERIES (SOHM)

Oldham Coupling

Side-clamp (Spacer-saving)





Dimensions / Performance

		Size (±	0.3mm)		5	Screw	Rated	Max.		Moment of	Static Torsional		Permis	sible Misalig	nment
Model	D		Lı		Size	Fastening Torque (N∙m)	Torque (N·m)	Torque (N∙m)	Max. rpm (min ⁻¹)	Inertia (kg·m²)	Stiffness (N∙m/rad)	Mass (g)	Angular (°)	Parallel (mm)	End-play (mm)
SOHM-12C	11.9	16.5	5	2.5	M2	0.5	0.9	1.8	15,000	7.4 x 10 ⁻⁸	55	3.5	1.5	1	0.05
SOHM-16C	16	20.7	6.1	3	M2.6	1	1	2	13,000	2.6×10 ⁻⁷	65	7.4	1.5	1	0.1
SOHM-20C	20	21.9	6.1	2.9	M2.6	1	1.5	3	11,000	6.8×10 ⁻⁷	120	12	1.5	1.5	0.1
SOHM-25C	25.5	26.4	7.4	3.7	М3	1.7	2.5	5	10,000	2.2×10 ⁻⁶	200	23	1.5	2	0.1
SOHM-32C	32	34.9	9.5	4.7	M4	3.5	7	14	9,000	6.8×10 ⁻⁶	620	44	1.5	2.5	0.2
SOHM-43C	43	47	14.7	7.3	M5	8	12.5	25	8,000	3.0×10 ⁻⁵	1,200	114	1.5	3	0.15
SOHM-53C	53	53.1	16.9	8.3	M5	8	20	40	7,400	8.3×10 ⁻⁵	1,400	197	1.5	3.2	0.15
SOHM-57C	57	56.8	18	8.7	M6	13	34	68	6,000	1.2×10 ⁻⁴	2,600	232	1.5	3.5	0.2
SOHM-70C	73	75.5	25	12.3	M8	30	60	120	4,500	4.5×10-4	5,000	547	1.5	3.5	0.2

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

• Please modify rated/max. torque value with temperature correction factor when it's higher than 30°C.

• Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Madal							(Stand	lard Ir	nner I	Diame	eter (d	d_1, d_2	(mm												
Model			4.5			6.35			9.525		11	12	14	15	16	18	19	20	22	24	25	25.4	28	30	32	35
SOHM-12C	٠			•																						
SOHM-16C	٠																									
SOHM-20C																										
SOHM-25C				•			•	•	•																	
SOHM-32C						•	•	٠	•	٠	•	•	•	•												
SOHM-43C							•	٠	•	٠	٠	٠	٠	•	•	•	٠									
SOHM-53C																•	•	•								
SOHM-57C															•	٠	٠	٠	٠	٠		٠	٠			
SOHM-70C															•		•	•		•		•	•	•		•

Standard Inner Diameter (ID)

• The recommended shaft tolerance is h7.

• Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.

• Keyway is available. (Optional)

SOH SERIES (SOHM)

Oldham Coupling

Slip Torque

- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

	Max. Torque						S	lip Tor	que (N.	n) by l	nner Di	iametei	r (d ₁ , d	2)					
Model	(N.m)			4.5			6.35		9.525	10	11	12	14	15	16	18	19	20	22
SOHM-12C	1.8	0.5	0.6	1	1.2														
SOHM-16C	2	0.6	0.6		1	1.4													
SOHM-20C	3		1		1.5	1.8	2.7												
SOHM-25C	5				1.8	2.6	3												
SOHM-32C	14					5	5.9	6.8	8.4	10	12	13							
SOHM-43C	25							14	17	18	19	22							
SOHM-53C	40									16	20	24	30	32					
SOHM-57C	68													37	43	47	50	55	60
SOHM-70C	130													72	84	95	99	108	110

SOH SERIES (SOHMP)

Oldham Coupling (PEEK Spacer)





Structure and Material

Structure	Material	Surface Treatment
Hub	High Strength Aluminum Alloy	-
Spacer	PEEK	-
Screw	SUSXM7	-

Product Features & Application

Minimized Outgas	\$
High Torque (Durability)	0
Torsional Stiffness	\triangle
Chemical Resistance	0
Misalignment Absorption	\$
Insulation of Electric Current	\$
Minimized Reaction Force	\$
Permissible Temperature	-20°C ~ 120°C

Application : Semi-conductor machine, OLED vacuum machine, High-temperature applications, cleanroom facilities.

Properties of PEEK Material

	ltem	Test Method	Value	Unit
Physical Properties	Density	ISO 1183-1	1.31	g/cm³
Thermal	Heat Deflection Temperature (1.8 Mpa)	ISO 75-1	160	°C
Properties	Coefficient of Thermal Expansion (23 - 150°C)	-	55x10 ⁻⁶	m/m∙K
	Tensile Strength	ISO 527-1	115	Мра
Mechanical Properties	Elongation at yield	ISO 527-1	5	%
roperties	Rockwell Hardness	ISO 2039-2	M105	

Features of SOHMP Series

- Excellent for Vacuum applications in regards of extremely low level of outgas. (In terms of outgas, SOHMP performs better than SOHV Series)
- Optimal heat/chemical Resistance allowing to be used in cleanroom facilities and high-temperature applications.
- Please contact Sung-il Customer Service team for more specific details about each chemical resistances. It may be varied by conditions, however, at least we can advise general information.

How to Order



No mark No Keyway

K(b size) Keyway processed according to the indicated b size.

SOH SERIES (SOHMP)

Oldham Coupling (PEEK Spacer)

Side-clamp





Dimensions / Performance

	Size (±0.3mm)				Screw		RatedMax			Moment of	Static Torsional		Permis	sible Misalig	nment
Model	D	L	L ₁		Size	Fastening Torque (N∙m)	Torque (N·m)	Torque (N·m)	Max. rpm (min ⁻¹)	Inertia (kg·m²)	Stiffness (N·m/rad)	Mass (g)	Angular (°)	Parallel (mm)	End-play (mm)
SOHMP-20C	20	21.9	6.1	2.9	M2.6	1	1.2	2.4	11,000	6.8×10 ⁻⁷	80	12	1.5	1.5	0.1
SOHMP-25C	25.5	26.4	7.4	3.7	М3	1.7	2	4	10,000	2.2×10 ⁻⁶	120	23	1.5	2	0.1
SOHMP-32C	32	34.9	9.5	4.7	M4	3.5	5.6	11.2	9,000	6.8×10-6	300	44	1.5	2.5	0.2

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

• Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

				St	andard Inn	er Diamete	$er(d_1, d_2)(r$	nm)				
Model				6.35			9.525		11	12	14	15
SOHMP-20C	•	•	•	•	•							
SOHMP-25C		•	•	•	•	•	•	•				
SOHMP-32C			•	•	•	•	•	•	•	•	•	٠

• The recommended shaft tolerance is h7.

• Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.

• Keyway is available. (Optional)

SOH SERIES (SOHV)

Oldham Coupling (VESPEL Spacer)





Structure and Material

Structure	Material	Surface Treatment
Hub	Stainless Steel	Electro-polishing
Spacer	VESPEL (PI)	-
Screw	SUSXM7	-

Product Features & Application

Minimized Outgas	\$
High Torque (Durability)	0
Torsional Stiffness	\triangle
Chemical Resistance	0
Misalignment Absorption	\$
Insulation of Electric Current	\$
Minimized Reaction Force	\$
Permissible Temperature	-20°C ~ 200°C

Application : Semi-conductor machine, OLED vacuum machine, High-temperature applications, cleanroom facilities.

Properties of VESPEL Material

	ltem	Test Method	Value	Unit
Physical Properties	Density	ISO 1183-1	1.43	g/cm³
Thermal	Heat Deflection Temperature (1.8 Mpa)	ISO 75-1	340	°C
Properties	Coefficient of Thermal Expansion (23 - 300°C)	-	45x10 ⁻⁶	m/m∙K
	Tensile Strength	ISO 527-1	163	Мра
Mechanical Properties	Elongation at yield	ISO 527-1	7.5	%
	Rockwell Hardness	ISO 2039-2	E95	

Features of SOHV Series

- Excellent for high-temperature applications in regards of heat resistance.
- Outgas amount is relatively lower and it's ideal to be used in cleanroom facilities and vacuum applications.
- Please contact Sung-il Customer Service team for more specific details about each chemical resistances. It may be varied by conditions, however, at least we can advise general information.

How to Order



Keyway

No mark No Keyway K(b size) Keyway processed according to the indicated b size.

SOH SERIES (SOHV)

Oldham Coupling (VESPEL Spacer)

Side-clamp





Dimensions / Performance

Model	Size (±0.3mm)				Screw		Rated	Мах		Moment of	Static Torsional		Permissible Misalignment		
	D		L1		Size	Fastening Torque (N∙m)	Torque (N·m)	Torque (N·m)	Max. rpm (min ⁻¹)	Inertia (kg·m²)	Stiffness (N·m/rad)	Mass (g)	Angular (°)	Parallel (mm)	End-play (mm)
SOHV-20C	20	25.7	8	2.8	M2.6	1	0.8	1.6	11,000	1.7×10 ⁻⁶	96	31	1.5	1.5	0.1
SOHV-25C	25.5	32	10.2	3.5	М3	1.7	1.4	2.7	10,000	5.7×10 ⁻⁶	144	62	1.5	2	0.1
SOHV-32C	32	44.7	14.4	4.9	M4	3.5	3.8	7.6	9,000	1.8×10 ⁻⁵	360	125	1.5	2.5	0.2

• The Moment of Inertia and Mass values are based on products with max. Inner diameter.

• Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d ₁ , d ₂) (mm)												
					6.35			9.525		11	12	14	15
SOHV-20C		•	•	•	•	•							
SOHV-25C			•	•	•	•	•	•	•				
SOHV-32C				•	•	•	•	•	•	•	•	•	•

• The recommended shaft tolerance is h7.

• Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.

• Keyway is available. (Optional)