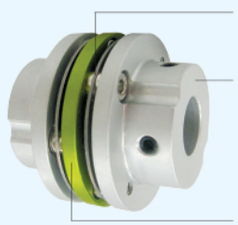
DRS | DRW | DRA

Features

- Disc type flexible coupling.
- Zero backlash.
- Stainless disc allows eccentricity, Declination and end play.
- Forward and reverse are the same features.
- Outstanding Oil-resistance and Anti-chemical.
- A variety of sizes are available.

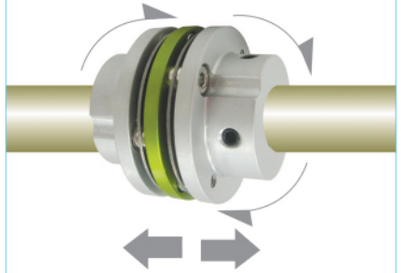
Structure & material



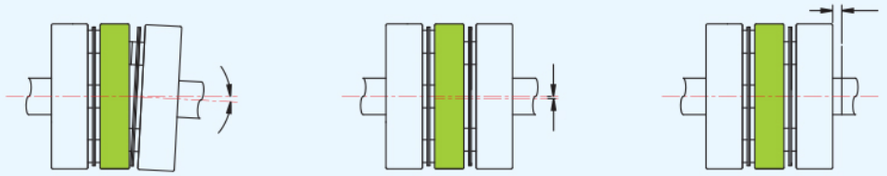
Disk : Stainless steel

Hub : Aluminum alloy with high stiffness
Surface treatment : Alumite process

Plate : Aluminum alloy with high stiffness
Surface treatment : alumite process



Misalignment



Angular allowance : ±°

Parallel(center line difference) : ± ㎜

End-play allowance : ± ㎜

Usage

- Servo motor
- Stepping motor
- General wide use motor
- Encoder

Others

- All products are included set screw and cap screw.
- We can supply nonstandard Inner Diameter and key seat.
- Don't re-assemble after disassemble randomly.
- You can order different types of both hubs.
- We encourage h7 for tolerance of Inner Diameter.
- You can order with one side is clamp type and another side is Set screw type.
- You can ask additional disk quantity.

COUPLING
COUPLING

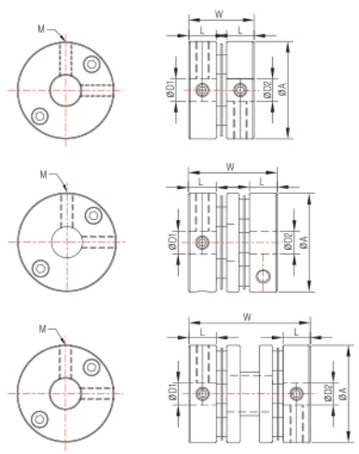
DRS | DRW | DRA (Set Screw Type)

Order method **DRW–31**–Ø8×Ø10
Product No. D1 D2

DRS

DRW

DRA



CAD Download

Product NO.	Dimension(mm)			Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
				Size	Torque									
	A	L	W	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N·m/rad	°	mm	±mm	g
DRS-16	16	5.1	11.9	M2.5	0.5	0.6	1.2	30,000	1.8×10^{-7}	270	0.5	0.02	0.1	5
DRW-16	16	5.1	15.6	M2.5	0.5	0.6	1.2	30,000	2.2×10^{-7}	200	2	0.05	0.2	6
DRWL-16	16	5.1	17.6	M2.5	0.5	0.6	1.2	30,000	2.6×10^{-7}	200	2	0.05	0.2	7
DRS-19	19	6.1	14	M3	0.7	1	2	20,000	3.0×10^{-7}	600	1	0.02	0.1	6
DRW-19	19	6.1	18	M3	0.7	1	2	20,000	5.3×10^{-7}	450	2	0.05	0.2	10
DRWL-19	19	6.1	21	M3	0.7	1	2	20,000	5.8×10^{-7}	450	2	0.05	0.2	11
DRS-22	22	6.2	14.8	M4	1.7	1.3	2.6	20,000	6.9×10^{-7}	600	1	0.02	0.2	10
DRW-22	22	6.2	19.9	M4	1.7	1.3	2.6	20,000	1.0×10^{-6}	500	2	0.12	0.2	16
DRWL-22	22	6.2	21.5	M4	1.7	1.3	2.6	20,000	1.1×10^{-6}	500	2	0.12	0.2	17
DRA-22	22	6.2	27.5	M4	1.7	1.3	2.6	20,000	1.3×10^{-6}	500	2	0.12	0.2	18
DRS-26	26	7.3	17	M4	1.7	2	4	20,000	2.0×10^{-6}	1,300	1	0.02	0.2	20
DRW-26	26	7.3	25.3	M4	1.7	2	4	20,000	2.3×10^{-6}	800	2	0.15	0.2	28
DRA-26	26	7.3	31.2	M4	1.7	2	4	20,000	3.2×10^{-6}	800	2	0.15	0.2	32
DRS-31	31.8	7.2	17.1	M4	1.7	3	6	15,000	4.4×10^{-6}	1,700	1	0.02	0.2	30
DRW-31	31.8	7.2	24.2	M4	1.7	3	6	15,000	4.3×10^{-6}	1,300	2	0.15	0.2	30
DRWL-31	31.8	7.2	29.2	M4	1.7	3	6	15,000	5.5×10^{-6}	1,300	2	0.15	0.2	38
DRA-31	31.8	7.2	35.7	M4	1.7	3	6	15,000	5.5×10^{-6}	1,300	2	0.15	0.2	38

Mass and Moment of inertia are measured with max bore size.

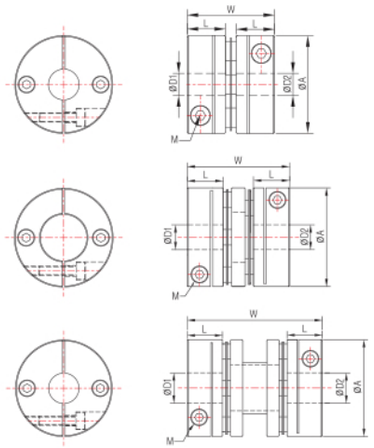
Product NO.	Standard Inner diameter(D1, D2) (mm)																	
	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16
DR□-16	•	•	•	•														
DR□- 19	•	•	•	•	•													
DR□-22		•	•	•	•	•	•	•										
DR□-26				•	•	•	•	•	•	•	•	•	○					
DR□-31				•	•	•	•	•	•	•	•	•	•	•	•	○	○	○

○ : Axis penetration is impossible.

Coupling

DRS | DRW | DRA (Clamp Type)

Order method: DRW-31C-Ø8×Ø10 (Product No. / D1 / D2)



Product NO.	Dimension(mm)			Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
				Size	Torque									
	A	L	W	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N · m/rad	°	mm	± mm	g
DRS-16C	16	7.8	17.4	M2	0.5	0.6	1.2	30,000	2.6×10^{-7}	270	0.5	0.02	0.1	7
DRW-16C	16	7.8	21	M2	0.5	0.6	1.2	30,000	3.3×10^{-7}	200	2	0.05	0.2	9
DRWL-16C	16	7.8	23	M2	0.5	0.6	1.2	30,000	3.7×10^{-7}	200	2	0.05	0.2	10
DRS-19C	19	8.7	19.2	M2.5	1	1	2	20,000	4.0×10^{-7}	600	1	0.02	0.1	8
DRW-19C	19	8.7	23	M2.5	1	1	2	20,000	7.4×10^{-7}	450	2	0.05	0.2	14
DRWL-19C	19	8.7	26.2	M2.5	1	1	2	20,000	7.9×10^{-7}	450	2	0.05	0.2	15
DRS-22C	22	8.7	19.8	M2.5	1	1.3	2.6	20,000	1.0×10^{-6}	600	1	0.02	0.2	15
DRW-22C	22	8.7	24.9	M2.5	1	1.3	2.6	20,000	1.3×10^{-6}	500	2	0.12	0.2	18
DRWL-22C	22	8.7	26.5	M2.5	1	1.3	2.6	20,000	1.4×10^{-6}	500	2	0.12	0.2	19
DRA-22C	22	8.7	32.5	M2.5	1	1.3	2.6	20,000	1.5×10^{-6}	500	2	0.12	0.2	20
DRS-26C	26	10.7	23.8	M3	2	2	4	20,000	2.4×10^{-6}	1,300	1	0.02	0.2	15
DRW-26C	26	10.7	32	M3	2	2	4	20,000	3.4×10^{-6}	500	2	0.15	0.2	34
DRA-26C	26	10.7	38	M3	2	2	4	20,000	3.9×10^{-6}	800	2	0.15	0.2	39
DRS-31C	31.8	11.6	25.9	M3	2	3	6	15,000	5.8×10^{-6}	1,700	1	0.02	0.2	40
DRW-31C	31.8	11.6	33	M3	2	3	6	15,000	7.5×10^{-6}	1,300	2	0.15	0.2	52
DRWL-31C	31.8	11.6	38	M3	2	3	6	15,000	8.8×10^{-6}	1,300	2	0.15	0.2	60
DRA-31C	31.8	11.6	44.5	M3	2	3	6	15,000	8.8×10^{-6}	1,300	2	0.15	0.2	60
DRS-39C	39	13.6	30.9	M4	4	6	12	10,000	1.6×10^{-5}	2,300	1	0.02	0.6	70
DRW-39C	39	13.6	38.6	M4	4	6	12	10,000	2.1×10^{-5}	1,800	2	0.15	0.6	95
DRWL-39C	39	13.6	44	M4	4	6	12	10,000	2.4×10^{-5}	1,800	2	0.15	0.6	110
DRA-39C	39	13.6	56	M4	4	6	12	10,000	3.0×10^{-5}	1,800	2	0.15	0.6	120
DRSC-42C	42.5	13.6	30.9	M4	4	8	16	10,000	3.2×10^{-5}	3,500	2	0.02	0.6	95
DRWC-42C	42.5	13.6	45.2	M4	4	8	16	10,000	3.3×10^{-5}	3,500	2	0.15	0.6	120
DRSC-47C	47	16.5	37	M4	4	13	26	10,000	5.4×10^{-5}	6,000	2	0.02	0.6	140
DRWC-47C	47	16.5	49.1	M4	4	13	26	10,000	5.5×10^{-5}	6,000	2	0.15	0.6	160

Mass and Moment of inertia are measured with max bore size.

Product NO.	Standard Inner diameter(D1, D2) (mm)																							
	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20	24	25
DR□-16C	●	●	●	●																				
DR□-19C	●	●	●	●	●																			
DR□-22C		●	●	●	●	●	●	●																
DR□-26C				●	●	●	●	●	●	●	●	●	○											
DR□-31C				●	●	●	●	●	●	●	●	●	●	●	●	○	○	○						
DR□-39C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○		
DR□-42C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○		
DR□-47C								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○

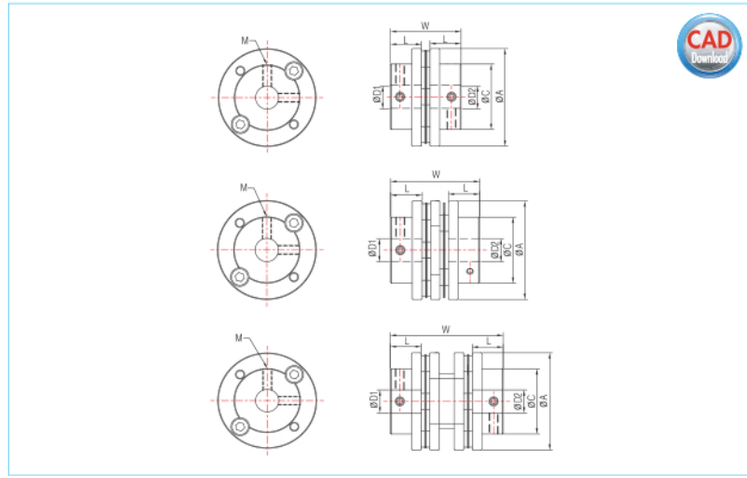
○ : Axis penetration is impossible.

COUPLING
COUPLING

Coupling

DRS | DRW | DRA (Set Screw Type)

Order method: DRWA-42-Ø8×Ø10 (Product No. / D1 / D2)



Product NO.	Dimension(mm)				Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
					Size	Torque									
	A	C	L	W	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N · m/rad	°	mm	± mm	g
DRS-42	42.5	28.5	13.5	30.7	M4	1.7	8	16	10,000	1.7×10^{-5}	6,000	1	0.02	0.3	65
DRWA-42	42.5	28.5	13.5	38.4	M4	1.7	8	16	10,000	2.1×10^{-5}	3,500	2	0.3	0.6	84
DRWB-42	42.5	28.5	13.5	44.9	M4	1.7	8	16	10,000	2.4×10^{-5}	3,500	2	0.3	0.6	94
DRAA-42	42.5	28.5	13.5	49.3	M4	1.7	8	16	10,000	2.7×10^{-5}	3,500	2	0.3	0.6	105
DRAB-42	42.5	28.5	13.5	57.7	M4	1.7	8	16	10,000	2.8×10^{-5}	3,500	2	0.3	0.6	110
DRAC-42	42.5	28.5	13.5	67.1	M4	1.7	8	16	10,000	2.9×10^{-5}	3,500	2	0.3	0.6	115
DRS-47	47	32.3	14	32	M5	4	13	26	10,000	2.7×10^{-5}	6,000	1	0.02	0.3	91
DRWA-47	47	32.3	14	40	M5	4	13	26	10,000	3.4×10^{-5}	4,000	2	0.3	0.6	115
DRWB-47	47	32.3	14	44.1	M5	4	13	26	10,000	3.6×10^{-5}	4,000	2	0.3	0.6	120
DRAA-47	47	32.3	14	57	M5	4	13	26	10,000	4.2×10^{-5}	4,000	2	0.3	0.6	140
DRAB-47	47	32.3	14	83	M5	4	13	26	10,000	4.7×10^{-5}	4,000	2	0.3	0.6	160
DRS-54	54	38	19	42.6	M5	4	23	46	10,000	4.9×10^{-5}	13,000	1	0.02	0.3	130
DRW-54	54	38	19	55.1	M5	4	23	46	10,000	6.7×10^{-5}	9,000	2	0.3	0.8	177
DRAA-54	54	38	19	70	M5	4	23	46	10,000	9.0×10^{-5}	9,000	2	0.3	0.8	230
DRAB-54	54	38	19	84	M5	4	23	46	10,000	1.1×10^{-4}	9,000	2	0.3	0.8	250
DRS-64	64	47.5	26	56.9	M8	15	32	64	10,000	1.8×10^{-4}	20,000	1	0.02	0.4	292
DRW-64	64	47.5	26	74	M8	15	32	64	10,000	2.2×10^{-4}	13,000	2	0.3	0.8	373
DRA-64	64	47.5	26	89.2	M8	15	32	64	10,000	2.7×10^{-4}	13,000	2	0.3	0.8	450

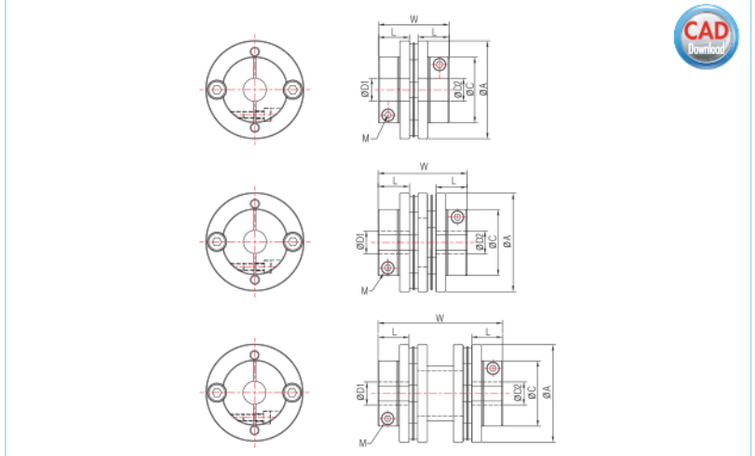
Mass and Moment of inertia are measured with max bore size.

Product NO.	Standard Inner diameter(D1, D2) (mm)																							
	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28	30	32
DR□-42	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○										
DR□-47				●	●	●	●	●	●	●	●	●	●	●	●	●	●								
DR□-54							●	●	●	●	●	●	●	●	●	●	●	●	●						
DR□-64									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○

○ : Axis penetration is impossible.

DRS | DRW | DRA (Clamp Type)

Order method **DRWA-42C**-Ø8×Ø10 (Product No., D1, D2)



Product NO.	Dimension(mm)				Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
					Size	Torque									
	A	C	L	W	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N · m/rad	°	mm	± mm	g
DRS-42C	42.5	28.5	13.5	30.7	M3	2	8	16	10,000	1.7×10^{-5}	6,000	1	0.02	0.3	65
DRWA-42C	42.5	28.5	13.5	38.4	M3	2	8	16	10,000	2.1×10^{-5}	3,500	2	0.3	0.6	84
DRWB-42C	42.5	28.5	13.5	44.9	M3	2	8	16	10,000	2.4×10^{-5}	3,500	2	0.3	0.6	94
DRAA-42C	42.5	28.5	13.5	49.3	M3	2	8	16	10,000	2.7×10^{-5}	3,500	2	0.3	0.6	105
DRAB-42C	42.5	28.5	13.5	57.7	M3	2	8	16	10,000	2.8×10^{-5}	3,500	2	0.3	0.6	110
DRAC-42C	42.5	28.5	13.5	67.1	M3	2	8	16	10,000	2.9×10^{-5}	3,500	2	0.3	0.6	115
DRS-47C	47	32.3	17	38	M4	4	13	26	10,000	3.2×10^{-5}	6,000	1	0.02	0.3	108
DRWA-47C	47	32.3	17	46	M4	4	13	26	10,000	3.6×10^{-5}	4,000	2	0.3	0.6	120
DRWB-47C	47	32.3	17	50.1	M4	4	13	26	10,000	3.9×10^{-5}	4,000	2	0.3	0.6	132
DRAA-47C	47	32.3	17	63	M4	4	13	26	10,000	4.5×10^{-5}	4,000	2	0.3	0.6	152
DRAB-47C	47	32.3	17	89	M4	4	13	26	10,000	5.1×10^{-5}	4,000	2	0.3	0.6	172
DRS-54C	54	38	21.5	47.6	M5	8	23	46	10,000	5.5×10^{-5}	13,000	1	0.02	0.3	145
DRWA-54C	54	38	21.5	60.1	M5	8	23	46	10,000	7.2×10^{-5}	9,000	2	0.3	0.8	192
DRAA-54C	54	38	21.5	75	M5	8	23	46	10,000	9.0×10^{-5}	9,000	2	0.3	0.8	240
DRAB-54C	54	38	21.5	88.9	M5	8	23	46	10,000	1.1×10^{-4}	9,000	2	0.3	0.8	266
DRS-64C	64	47.5	26	56.9	M6	13	32	64	10,000	1.8×10^{-4}	20,000	1	0.02	0.4	292
DRW-64C	64	47.5	26	74	M6	13	32	64	10,000	2.2×10^{-4}	13,000	2	0.3	0.8	373
DRA-64C	64	47.5	26	89.2	M6	13	32	64	10,000	2.7×10^{-4}	13,000	2	0.3	0.8	450

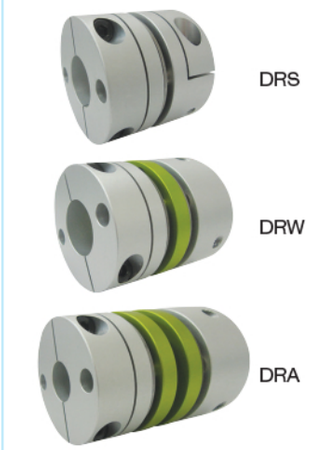
Mass and Moment of inertia are measured with max bore size.

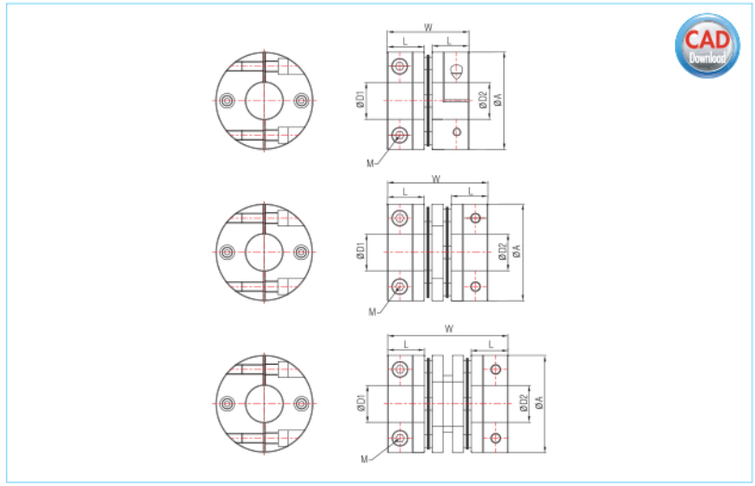
Product NO.	Standard Inner diameter(D1, D2) (mm)																							
	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28	30	32
DR□-42C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	○										
DR□-47C				•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DR□-54C							•	•	•	•	•	•	•	•	•	•	•	•	•						
DR□-64C									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	○	○

○ : Axis penetration is impossible.

DRS | DRW | DRA (Clamp Type)

Order method **DRW-80C**-Ø20×Ø25 (Product No., D1, D2)





Product NO.	Dimension(mm)			Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
				Size	Torque									
	A	L	W	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N · m/rad	°	mm	± mm	g
DRSC-54C	54	19	42.6	M5	8	23	46	10,000	9.8×10^{-5}	11,000	2	0.02	0.8	200
DRWB-54C	54	19	52.1	M5	8	23	46	10,000	1.1×10^{-4}	9,000	2	0.3	0.8	250
DRWC-54C	54	19	58	M5	8	23	46	10,000	1.2×10^{-4}	9,000	2	0.3	0.8	280
DRS-80C	79	30	66.4	M8	30	75	150	10,000	7.5×10^{-4}	40,000	2	0.02	1.2	800
DRW-80C	79	30	82	M8	30	75	150	10,000	8.4×10^{-4}	34,000	2	0.5	1.2	900
DRA-80C	79	30	98	M8	30	75	150	10,000	8.5×10^{-4}	34,000	2	0.5	1.2	1,000
DRS-90C	94.5	30.4	68.2	M8	30	150	300	10,000	1.2×10^{-3}	60,000	2	0.02	1.4	930
DRW-90C	94.5	30.4	98	M8	30	150	300	10,000	1.8×10^{-3}	38,000	2	0.5	1.4	1,350
DRS-100C	104.5	30.6	71	M8	30	220	440	10,000	2.2×10^{-3}	70,000	2	0.02	1.4	1,300
DRW-100C	104.5	30.6	102.5	M8	30	220	440	10,000	2.9×10^{-3}	50,000	2	0.5	1.4	1,700

Mass and Moment of inertia are measured with max bore size.

Product NO.	Standard Inner diameter(D1, D2) (mm)																							
	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28	30	32	35	40	42	45	50
DR□-54C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	○	○	○							
DR□-80C						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	○			
DR□-90C											•	•	•	•	•	•	•	•	•	•	•	•	•	
DR□-100C											•	•	•	•	•	•	•	•	•	•	•	•	•	•

○ : Axis penetration is impossible.