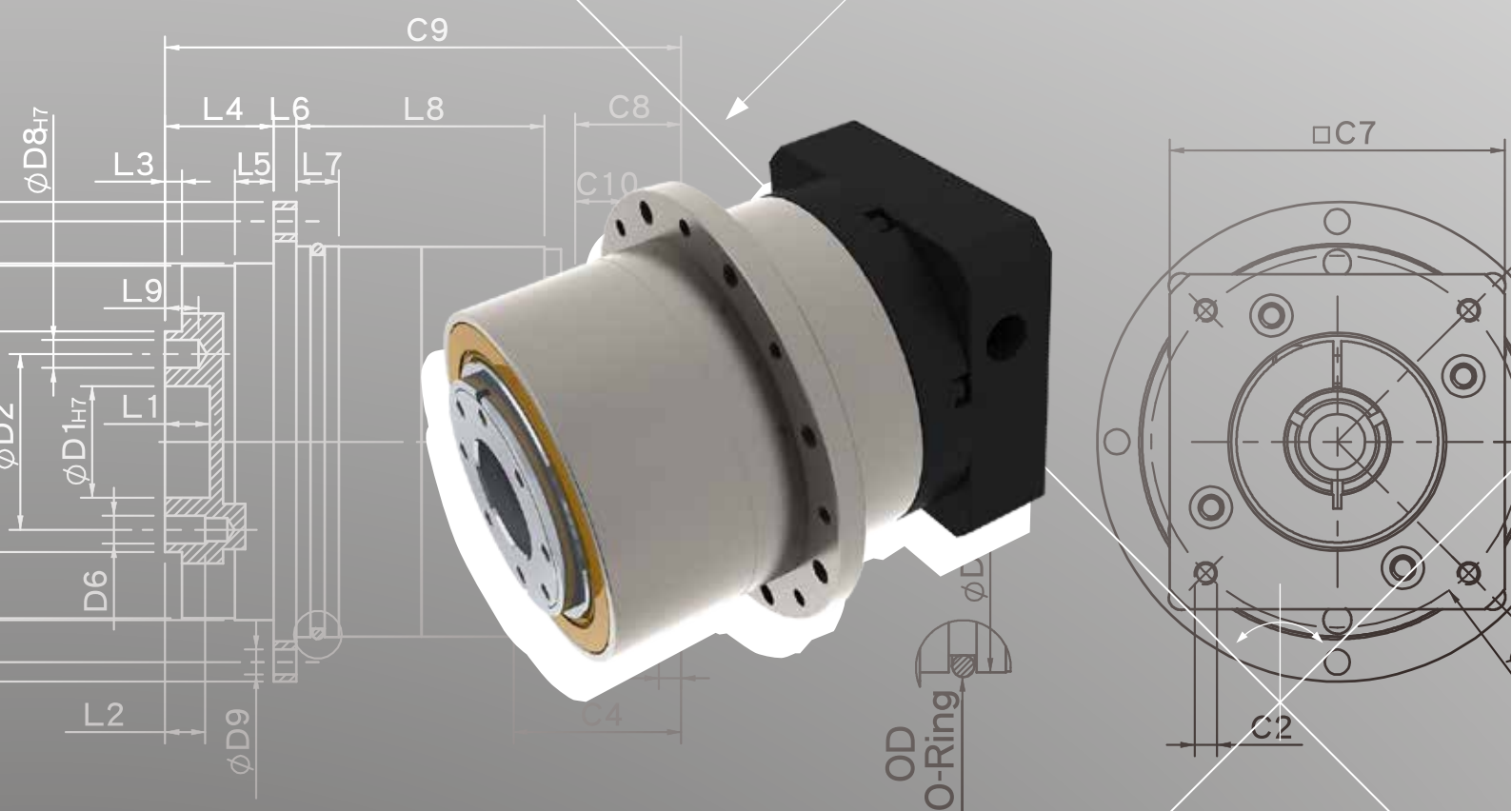
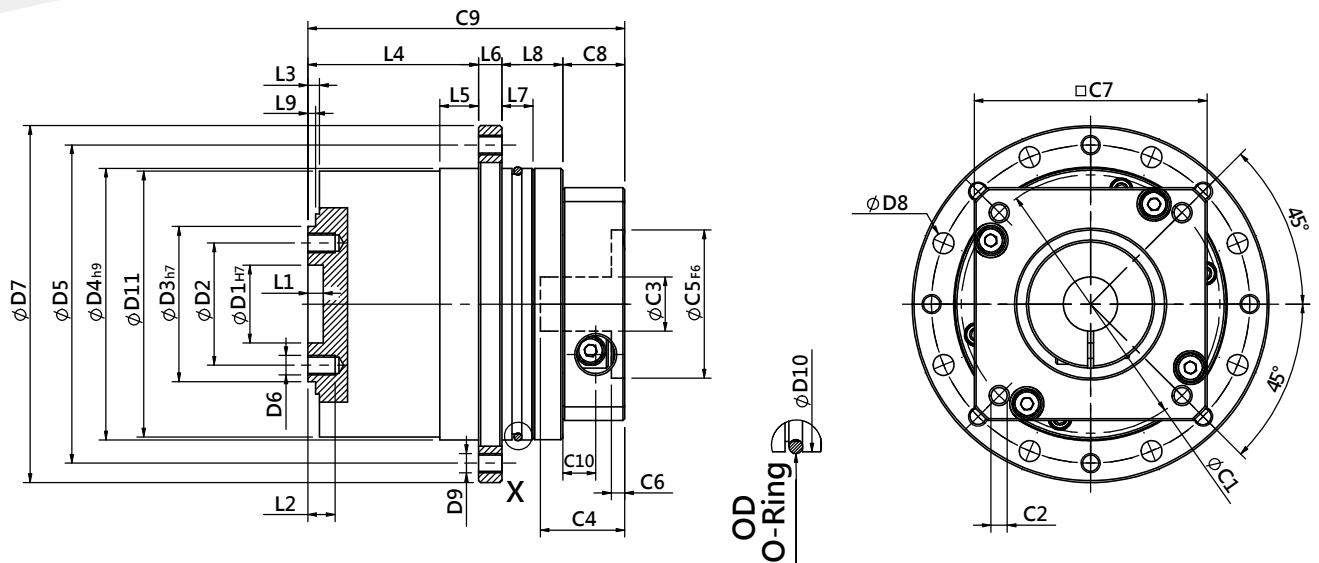


PGV SERIES



PGV Single Stage Dimensions



Specifications

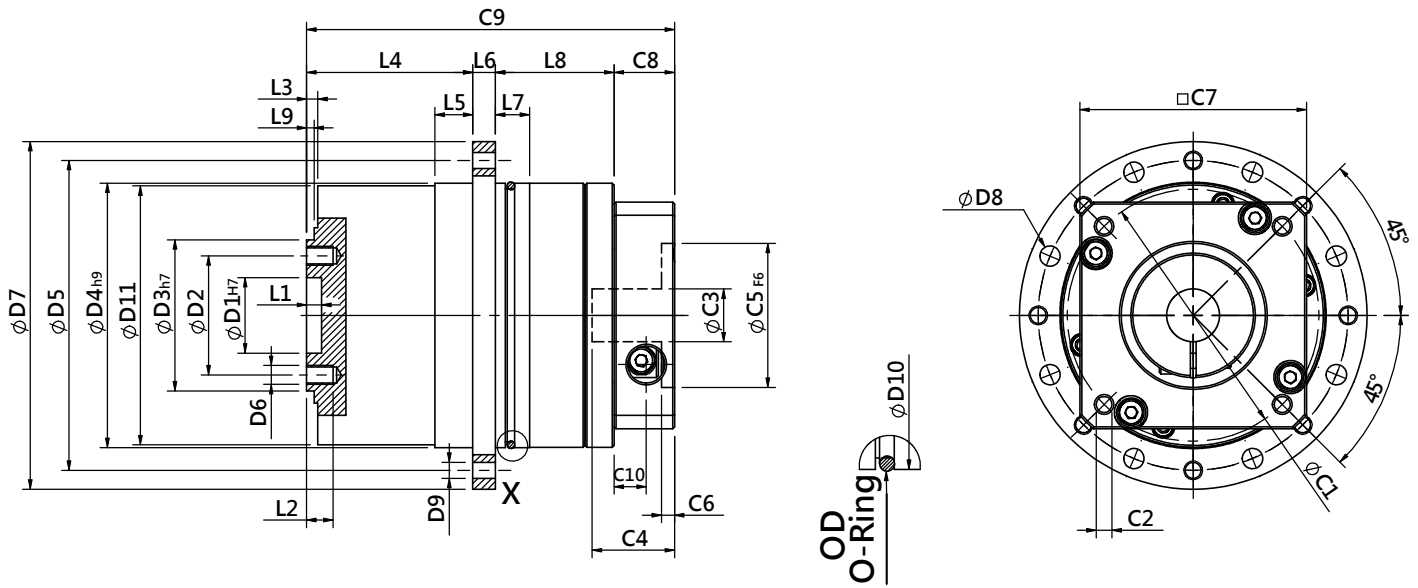
Unit: mm

Dimensions	PGV60	PGV90	PGV115
D1 _{H7}	20	31.5	40
D2	31.5	50	63
D3 _{H7}	40	63	80
D4 _{H9}	70	94	120
D5	82	108	142
D6	M5x0.8P	M6x1.0P	M6x1.0P
D7	92	120	158
D8	5.4	6.6	9
D9	M5x0.8P	M6x1.0P	M8x1.25P
D10	70	95	120
D11	69.9	93.9	119.9
L1	4	6	6.5
L2	7	10	12
L3	3	6	6.5
L4	44	59.5	80
L5	10	15	21
L6	6	8	10
L7	8	-	-
L8	15.7	22.9	18
L9	2	5	5.5
C1 ²	66.67	90	115
C2 ²	M5x0.8P	M6x1.0P	M8x1.25P
C3 ²	≤11/≤14/≤19	≤14/≤19/≤24	≤19/≤24/≤38
C4 ²	21.8	41.3	42.9
C5 ² _{F6}	38.15	70	95
C6 ²	3.5	6	6
C7 ²	60	90	115
C8 ²	16	26	30
C9 ²	81.7	116.4	138
C10 ²	8.5	11.3	13.8
OD	66x2	-	-

★ C1~C10 are motor specific dimensions(metric std shown). Size may vary according to motor flange.

★ Specification subject to change without notice.

PGV Double Stage Dimensions-1



Specifications

Unit: mm

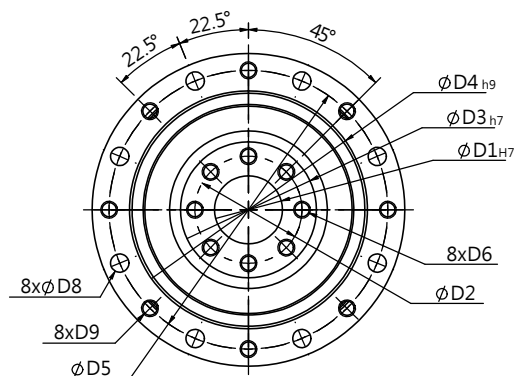
Dimensions	PGV60	PGV90	PGV115
D1 _{H7}	20	31.5	40
D2	31.5	50	63
D3 _{H7}	40	63	80
D4 _{H9}	70	94	120
D5	82	108	142
D6	M5x0.8P	M6x1.0P	M6x1.0P
D7	92	120	158
D8	5.4	6.6	9
D9	M5x0.8P	M6x1.0P	M8x1.25P
D10	70	95	120
D11	69.9	93.9	119.9
L1	4	6	6.5
L2	7	10	12
L3	3	6	6.5
L4	44	59.5	80
L5	10	15	21
L6	6	8	10
L7	9	7.7	10
L8	31.4	42.7	45.8
L9	2	5	5.5
C1 ²	66.67	90	115
C2 ²	M5x0.8P	M6x1.0P	M8x1.25P
C3 ²	≤11/≤14/≤19	≤14/≤19/≤24	≤19/≤24/≤38
C4 ²	21.8	41.3	42.9
C5 ² _{F6}	38.15	70	95
C6 ²	3.5	6	6
C7 ²	60	90	115
C8 ²	16	26	30
C9 ²	97.4	136.2	165.8
C10 ²	8.5	11.3	13.8
OD	66x2	86x3	110x3

★ C1~C10 are motor specific dimensions(metric std shown). Size may vary according to the motor flange.

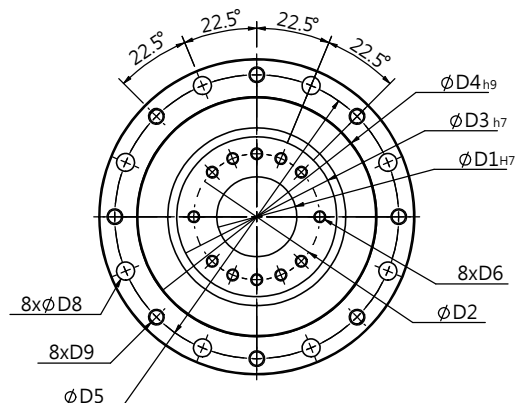
★ Specification subject to change without notice.

PGV Flange Dimensions

PGV60
PGV90



PGV115



Specifications

Unit: mm

Dimensions	PGV60	PGV90	PGV115
D1 _{H7}	20	31.5	40
D2	31.5	50	63
D3 _{H7}	40	63	80
D4 _{H9}	70	94	120
D5	82	108	142
D6	M5x0.8P	M6x1.0P	M6x1.0P
D8	5.4	6.6	9
D9	M5x0.8P	M6x1.0P	M8x1.25P

★ Specification subject to change without notice.

PGV Specifications Table

Specification		Stage	Ratio	PGV-60	PGV-90	PGV-115				
Nominal Output Torque T_{2N}	$N \cdot m$	1	3	41	110	250				
			4	44	120	270				
			5	45	120	280				
			7	38	100	260				
			8	35	95	240				
			10	32	95	210				
		Stage	Ratio	PGV-60	PGV-90	PGV-115				
		2	9	41	110	250				
			12	44	120	270				
			15	45	120	280				
			16	44	120	270				
			20	44	120	270				
			25	45	120	280				
			30	41	110	280				
			35	45	120	280				
			40	44	120	270				
			50	45	120	280				
			64	35	95	240				
			70	38	100	260				
100	32		85	210						
Emergency Stop Torque T_{2NOT}	$N \cdot m$	2.5 Times of Nominal Output Torque Max. Output Torque T_{2B} = 60% of Emergency Stop Torque								
Starting Torque	$N \cdot m$	$\frac{1}{2}$	3-10 9-100	0.11 0.09	0.3 0.25	0.55 0.5				
Nominal Input Speed n_{1N}	rpm	1,2	3-100	4500	4000	3500				
Max. Input Speed n_{1max}	rpm	1,2	3-100	7500	7000	6500				
Standard Backlash P_2	arcmin	$\frac{1}{2}$	3-10 9-100	≤ 9 ≤ 12	≤ 8 ≤ 10	≤ 7 ≤ 9				
Torsional Rigidity	$\frac{N \cdot m}{arcmin}$	1,2	3-100	8	22	55				
Max. Radial Load F_{2rB}^1	N	1,2	3-100	3300	5300	7100				
Max. Axial Load F_{2aB}^1	N	1,2	3-100	3120	5000	7000				
Max. Bending Moment M_{2KB}^1	$N \cdot m$	1,2	3-100	110	220	350				
Operating Temp.	°C	1,2	3-100	-10°C ~ +90°C						
Service Life	hr	1,2	3-100	30,000 (15,000 Continuous Operation)						
Efficiency	%	$\frac{1}{2}$	3-10 9-100	$\geq 97\%$ $\geq 94\%$						
Weight	kg	$\frac{1}{2}$	3-10 9-100	1.8 2.2	4.3 5.3	8.6 10.6				
Mounting Position	-	1,2	3-100	Any Direction						
Noise Level ²	dBA/1m	1,2	3-100	58	60	63				
Protection Class	-	1,2	3-100	IP65 (at the Output Side)						
Lubrication	-	1,2	3-100	Synthetic Lubricant						
Inertia (J1)										
Stage	Ratio	Unit	PGV-60			PGV-90		PGV-115		
			(ϕ 19)	(ϕ 14)	(ϕ 11)	(ϕ 24)	(ϕ 19)	(ϕ 14)	(ϕ 24)	(ϕ 19)
1	3	$Kg \cdot cm^2$	0.46	0.23	0.23	0.77	0.77	0.33	2.2	1.87
	4		0.42	0.21	0.21	0.67	0.67	0.23	1.51	1.18
	5~8, 10		0.42	0.21	0.21	0.61	0.61	0.21	1.26	0.93
Stage	Ratio		PGV-60			PGV-90		PGV-115		
2	9, 12 15		(ϕ 19)	(ϕ 14)	(ϕ 11)	(ϕ 24)	(ϕ 19)	(ϕ 14)	(ϕ 24)	(ϕ 19)
	Other ratios		0.46	0.23	0.23	0.77	0.77	0.33	2.2	1.87
		0.42	0.21	0.21	0.67	0.67	0.23	1.51	1.18	

* 1. Applied to the output shaft center @100 rpm.

* 2. Measured at 3000 rpm with no load. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at nominal input speed or 3000 rpm (if nominal input speed is higher than 3000 rpm) with no load.

※ The above figures/specifications are subject to change without prior notice.

Products due to human error, natural disasters or other factors lead to poor or damaged, will not be covered under warranty.