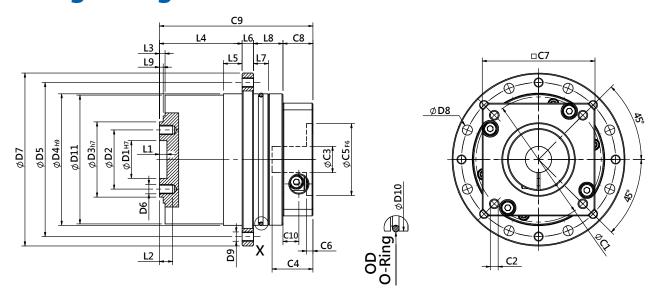


# **PGV Single Stage Dimensions**



## **Specifications**

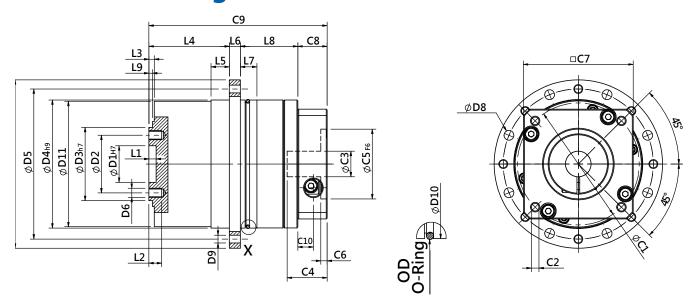
Unit: mm

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 <sup>2</sup>	66.67	90	115					
C2 <sup>2</sup>	M5x0.8P	M6x1.0P	M8x1.25P					
C3 <sup>2</sup>	≦11/≦14/≦19	≦14/≦19/≦24	≦19/≦24/≦38					
C4 <sup>2</sup>	21.8	41.3	42.9					
C5 <sup>2</sup> F6	38.15	70	95					
C6 <sup>2</sup>	3.5	6	6					
C7 <sup>2</sup>	60	90	115					
C8 <sup>2</sup>	16	26	30					
C9 <sup>2</sup>	81.7	116.4	138					
C10 <sup>2</sup>	8.5	11.3	13.8					
OD	66x2	-	-					

 $<sup>\</sup>star$  C1~C10 are motor specific dimensions(metric std shown ). Size may vary according to motor flange.

 $<sup>\</sup>bigstar$  Specification subject to change without notice.

# **PGV Double Stage Dimensions-1**



## **Specifications**

Unit: mm

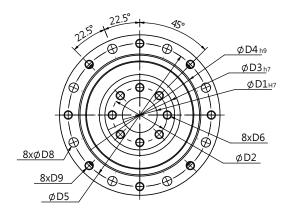
Dimensions	PGV60	PGV90	PGV115
D1 H7	20	31.5	40
D2	31.5	50	63
D3 h7	40	63	80
D4 h9	70	94	120
D5	82	108	142
D6	M5x0.8P	M6x1.0P	M6x1.0P
D7	92	120	158
D8	5.4	6.6	9
D9	M5x0.8P	M6x1.0P	M8x1.25P
D10	70	95	120
D11	69.9	93.9	119.9
L1	4	6	6.5
L2	7	10	12
L3	3	6	6.5
L4	44	59.5	80
L5	10	15	21
L6	6	8	10
L7	9	7.7	10
L8	31.4	42.7	45.8
L9	2	5	5.5
C1 <sup>2</sup>	66.67	90	115
C2 <sup>2</sup>	M5x0.8P	M6x1.0P	M8x1.25P
C3 <sup>2</sup>	≦11/≦14/≦19	≦14/≦19/≦24	≦19/≦24/≦38
C4 <sup>2</sup>	21.8	41.3	42.9
C5 <sup>2</sup> F6	38.15	70	95
C6 <sup>2</sup>	3.5	6	6
C7 <sup>2</sup>	60	90	115
C8 <sup>2</sup>	16	26	30
C9 <sup>2</sup>	97.4	136.2	165.8
C10 <sup>2</sup>	8.5	11.3	13.8
OD	66x2	86x3	110x3

 $<sup>\</sup>star$  C1~C10 are motor specific dimensions(metric std shown ). Size may vary according to the motor flange.

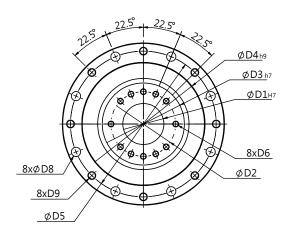
 $<sup>\</sup>star$  Specification subject to change without notice.

# **PGV Flange Dimensions**

PGV60 PGV90



**PGV115** 



## **Specifications**

Unit: mm

Dimensions	PGV60	PGV90	PGV115
D1 <sub>H7</sub>	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

<sup>★</sup> Specification subject to change without notice.

# **PGV Specifications**

Specific	ation		Stage	Ratio		PGV-60			PGV-90		PG\	/-115			
				3		41			110			250			
				4		44			120			.30 .70			
				5		45			120						
			1	7		38			100		280				
				8		35			95						
				10		32			95		240 210				
			Stage	Ratio		PGV-60			PGV-90			/-115			
			Stage	9		41			110			250			
Ni i i i i i	T T	NI		12		44			120			.30 !70			
Nominai Oui	tput Torque T <sub>2N</sub>	N • m		15		45			120			180			
				16		44			120			.80 !70			
				20		44			120			270			
				25		45			120			180			
			2	30		41			110			180			
				35		45			120			180			
				40		44			120			270			
				50		45			120			180			
						35			95						
				70		38			100			.40 .60			
									85						
				100		32	imas af N	lominal (	85 Output To	raus	210				
Emergency Sto	ор Torque Т2NOT	N • m		_	Max. Ou	1.5 I Itput Tor	que T <sub>2B</sub> =	:60% of E	Emergenc	y Stop To					
Startin	g Torque	N • m	1 2	3-10 9-100		0.11 0.09			0.3 0.25		0.55 0.5				
Nominal Inp	out Speed N <sub>1N</sub>	rpm	1,2	3-100		4500			4000		3500				
Max. Input	Speed n <sub>1max</sub>	rpm	1,2	3-100	7500				7000		6500				
Standard	Backlash P2	arcmin	1 2	3-10 9-100		≦ 9 ≤ 12			≦ 8 ≤ 10		≦ 7 ≦ 9				
Torsiona	al Rigidity	N • m /arcmin	1,2	3-100		8			22		55				
Max. Radi	al Load F <sub>2rB</sub> <sup>1</sup>	N	1,2	3-100		3300			5300		7100				
Max. Axia	I Load F <sub>2aB</sub> ¹	N	1,2	3-100		3120			5000		7000				
Max. Bending	Moment M2KB1	N • m	1,2	3-100		110			220		350				
Operat	ing Temp.	℃	1,2	3-100		-10°C ~ +90°C									
Servi	ice Life	hr	1,2	3-100			ration)								
Effic	ciency	%	1 2	3-10 9-100					≥ 97% ≥ 94%		,				
	ot other		1	3-10		1.8			4.3		8.6				
We	eight	kg	2	9-100		2.2			5.3			0.6			
Mountir	ng Position	-	1,2	3-100				Ar	ny Direction	on					
Noise	Level <sup>2</sup>	dBA/1m	1,2	3-100		58			60		6	53			
	tion Class	-	1,2	3-100				IP65 (at	the Outp	ut Side)					
	ication	-	1,2	3-100					netic Lubr						
				-	Inertia	(J1)									
C.				11. %		PGV-60			PGV-90		PGV	'-115			
Stage	Ratio	)		Unit	( <i>φ</i> 19)	( <i>φ</i> 14)	( <i>φ</i> 11)	(ψ24)	( <i>φ</i> 19)	( <i>φ</i> 14)	( φ 24)	( <i>φ</i> 19)			
	3				0.46	0.23	0.23	0.77	0.77	0.33	2.2	1.87			
1	4				0.42	0.21	0.21	0.67	0.67	0.23	1.51	1.18			
	5~8,	10		2	0.42	0.21	0.21	0.61	0.61	0.21	1.26	0.93			
Stage	Ratio	<u> </u>	K	ấg ∙ cm²		PGV-60			PGV-90			-115			
Stage					( φ 19)	$(\phi 14)$	( <i>φ</i> 11)	(φ24)	( <i>φ</i> 19)	( <i>φ</i> 14)	( φ 24)	( <i>φ</i> 19)			
2	9, 12 Other ratios				0.46	0.23	0.23	0.77	0.77	0.33	2.2	1.87			
	Other ratios				0.42	0.21	0.21	0.67	0.67	0.23	1.51	1.18			

 $<sup>^{\</sup>star}$  1. Applied to the output shaft center @100 rpm.

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

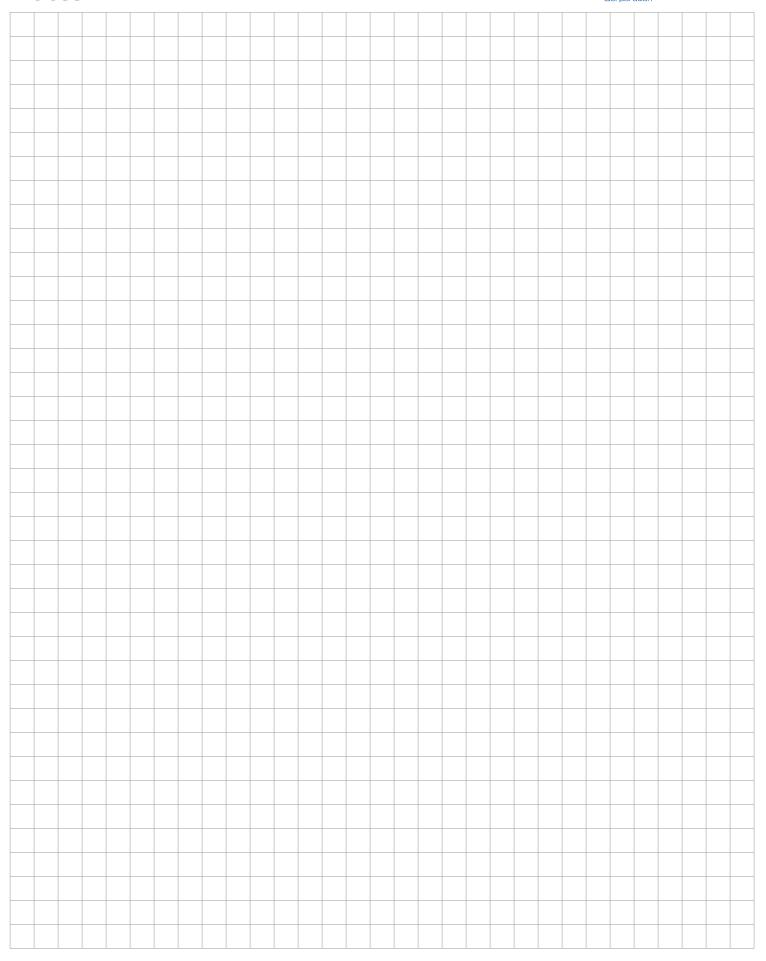


<sup>\*2.</sup> Measured at 3000 rpm with no load. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at nominal input speed or 3000 rpm (if nominal input speed is higher than 3000 rpm) with no load.

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

# Notes





## **Notes**



### ABOUT DIEQUA

ounded in 1980 by Dietmar Quaas, and now owned by his sons, DieQua Corporation has expanded from a single product line to become a leading manufacturer and supplier of an extensive line of high-quality power transmission and precision motion control products, including gearboxes, servo gearheads, screw jack systems, speed reducers, cycloidal reducers, and connecting components. The company also offers custom product modifications and complete design solutions for virtually any application. DieQua Corporation serves a wide range of industries, including medical and health care, marine engineering, renewable energy, mining, transportation, steel, forestry and lumber, water and wastewater, automotive, and factory automation, to name a few.

An experienced and knowledgeable technical sales, customer service, and engineering support staff, as well as local distributors, ensure that DieQua customers in North America, Mexico and South America select the optimum components, systems, and best design solutions for their specific requirements.

### The DieQua family of products





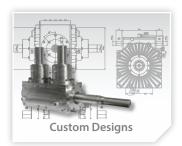












#### The DieQua Advantage

### **Engineering Support**

DieQua Corporation has several decades of combined experience specifying power transmission and motion control components. This assures proper selection of components and systems to suit your unique requirements.

### Warehousing

We pride ourselves for our extensive in-stock inventory. For fast product turnaround, DieQua Corporation stocks many components of various ratios and sizes, ready to ship fast.

### Manufacturing and Assembly

DieQua Corporation now manufactures or assembles most of the products, for on-time delivery of standard orders as well as prototypes. We are ISO 9001 certified and are constantly improving our quality systems to ensure our customers receive the best products.



180 Covington Drive Bloomingdale, IL 60108 USA

630.980.1133