Technical data

The table below details the technical data for Group 2 gear motors based on the model and displacement configuration.

Technical data for Group 2 gear motors

		Frame size							
		6,0*	**8,0**	**011**	**014**	**017**	**019**	**022**	**025**
Displacement	cm^3/rev [in^3/rev]	6.0 [0.36]	8.4 [0.513]	10.8 [0.659]	14.4 [0.879]	16.8 [1.025]	19.2 [1.171]	22.8 [1.391]	25.2 [1.538]
SNM2NN (bidirectional motor)									
Peak pressure	bar [psi]	280 [4060]	280 [4060]	280 [4060]	280 [4060]	260 [3770]	230 [3335]	200 [2900]	180 [2610]
Rated pressure	bar [psi]	250 [3625]	250 [3625]	250 [3625]	250 [3625]	230 [3335]	210 [3045]	180 [2610]	160 [2320]
Outlet back pressure	bar [psi]	250 [3625]	250 [3625]	250 [3625]	250 [3625]	230 [3335]	210 [3045]	180 [2610]	160 [2320]
Minimum speed	min^{-1} (rpm)	700	700	700	700	500	500	500	500
Maximum speed	min^{-1} (rpm)	4000	4000	4000	4000	4000	3500	3500	3500
SNU2NN (unidirectional motor)									
Peak pressure	bar [psi]	–	280 [4060]	280 [4060]	280 [4060]	260 [3770]	230 [3335]	200 [2900]	180 [2610]
Rated pressure	bar [psi]	–	250 [3625]	250 [3625]	250 [3625]	230 [3335]	210 [3045]	180 [2610]	160 [2320]
Minimum speed	min^{-1} (rpm)	–	600	600	600	500	500	500	500
Maximum speed	min^{-1} (rpm)	–	3500	3500	3500	3000	3000	3000	2500
SKU2NN (unidirectional motor)									
Peak pressure	bar [psi]	–	280 [4060]	280 [4060]	280 [4060]	260 [3770]	230 [3335]	200 [2900]	175 [2815]
Rated pressure	bar [psi]	–	250 [3625]	250 [3625]	250 [3625]	230 [3335]	210 [3045]	180 [2610]	160 [2320]
Minimum speed	min^{-1} (rpm)	–	600	600	600	500	500	500	500
Maximum speed	min^{-1} (rpm)	–	3500	3500	3500	3000	3000	3000	2500
All (SNM2NN, SNU2NN, SKU2NN)									
Weight	kg [lb]	2.4 [5.3]	2.5 [5.5]	2.7 [5.5]	2.9 [6.3]	3.0 [6.5]	3.1 [6.7]	3.2 [7.0]	3.3 [7.3]
Moment of inertia of rotating components	x 10^{-6} kg•m^2 [x 10^{-6} lb•ft^2]	26.5 [629]	32.4 [769]	38.4 [911]	47.3 [1122]	53.3 [1265]	59.2 [1405]	68.1 [1616]	74.1 [1758]
Theoretical flow at maximum speed	l/min [US gal/min]	24 [6.3]	33.6 [8.9]	43.2 [11.4]	50.4 [13.3]	50.4 [13.3]	57.6 [15.2]	68.4 [18.0]	75.6 [20.0]

1 kg•m^2 = 23.68 lb•ft^2

* Before chosing this frame size, please apply to Turolla technical department.

Caution

The rated and peak pressure mentioned are for motors with flanged ports only. When threaded ports are required a de-rated performance has to be considered. To verify the compliance of an high pressure application with a threaded ports pump apply to a Turolla representative.

A						B			C	D	E		F		G		H		I		J		K	L	/	M			N	0	

H Inlet size

NN	Without inlet
B3	13,5x30xM6 in X
B5	15x35xM6
B6	15x40xM6
B7	20x40xM6
BB	27x55xM8
C2	12x26xM5
C3	13,5x30xM6
C4	15x35xM6 DXK(+)
C5	13,5x40xM8
C6	20x40xM6 DXK(+)
C7	20x40xM8
C8	23,5x40xM8
CS	13,5x30xM6 (2 holes)
CV	20x40xM8 (2 holes at 30°)
CX	20x40xM8 (2 holes)
CY	20x40xM8 (3 holes)
D4	M16x1,5
D5	M18x1,5
D7	M22x1,5
D9	M26x1,5
E3	9/16-18UNF
E4	3/4-16UNF
E5	7/8-14UNF
E6	1-1/16-12UN
E8	1-5/16-12UN

I Outlet size

F3	3/8 GAS
F4	1/2 GAS
F5	3/4 GAS
F6	1 GAS
H5	M18x1,5-ISO6149
H7	M22x1,5-ISO6149
H8	M27x2-ISO6149
H9	M33x2-ISO6149
M1	12x17,48x38,1xM6
M2	12x17,48x38,1xM8
M3	18,5x17,48x38,1xM8
M5	25/20x52,37x26,19xM10
MB	12x38,1x17,48xM8(=)
MC	18,5x47,63x22,23xM6(=)
MD	18,5x47,63x22,23xM8(=)
ME	18,5x47,63x22,23xM10(=)
MG	25/20x52,37x26,19xM10(=)
MH	31/25x58,72x30,18xM10(=)

J Ports Pos & Spec Body

NN	Std from catalogue
YY	Port Bx-Bx with flange SAE-A;off-set to rear cover
EU	Dist. from front flange=58,5 - Special
F9	Dist. from front flange=69 - Special
PL	Inlet port Left position looking gear drive from front flange
PR	Inlet port Right position looking gear drive from front flange
TD	Nr.4 milling D.27 tigh.16 flange side - Special
TE	Nr.4 milling D.27 tigh.20 flange side - Special
ZZ	Port Bx-Bx in the center of the body - Option