



Technical Data

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Frame size		4,0	6,0	8,0	011	014	017	019	022	025
Displacement	cm ³ /rev	3.9	6.0	8.4	10.8	14.4	16.8	19.2	22.8	25.2
	[in ³ /rev]	[0.24]	[0.37]	[0.51]	[0.66]	[0.88]	[1.02]	[1.17]	[1.39]	[1.54]
SNP2NN										
Peak pressure	bar [psi]	280	280	280	280	280	280	230	200	175
		[4060]	[4060]	[4060]	[4060]	[4060]	[4060]	[3335]	[2900]	[2638]
Rated pressure	bar [psi]	250	250	250	250	250	250	210	180	160
		[3625]	[3625]	[3625]	[3625]	[3625]	[3625]	[3045]	[2610]	[2320]
Minimum speed at 0-100 bar	min ⁻¹ (rpm)	600	600	600	500	500	500	500	500	500
Minimum speed at 100-180 bar		1200	1200	1000	800	750	750	700	700	700
Min. speed at 180 bar to rated pressure		1400	1400	1400	1200	1000	1000	1000	800	–
Maximum speed		4000	4000	4000	4000	3500	3000	3000	3000	3000
SKP2NN										
Peak pressure	bar [psi]	280	280	280	280	280	280	260	230	200
		[4060]	[4060]	[4060]	[4060]	[4060]	[4060]	[3770]	[3335]	[2900]
Rated pressure	bar [psi]	250	250	250	250	250	250	240	210	190
		[3625]	[3625]	[3625]	[3625]	[3625]	[3625]	[3480]	[3045]	[2755]
Minimum speed at 0-100 bar	min ⁻¹ (rpm)	600	600	600	500	500	500	500	500	500
Minimum speed at 100-180 bar		1200	1200	1000	800	750	750	700	700	700
Min. speed at 180 bar to rated pressure		1400	1400	1400	1200	1000	1000	1000	800	800
Maximum speed		4000	4000	4000	4000	3500	3000	3000	3000	3000
Both (SNP2NN, SKP2NN)										
Weight	kg [lb]	2.3	2.4	2.5	2.7	2.9	3.0	3.1	3.2	3.3
		[5.1]	[5.3]	[5.5]	[5.8]	[6.3]	[6.5]	[6.7]	[7.0]	[7.3]
Moment of inertia of rotating components	x 10 ⁻⁶ kg·m ²	21.3	26.5	32.4	38.4	47.3	53.3	59.2	68.1	74.1
	[x 10 ⁻⁶ lb·ft ²]	[505]	[629]	[769]	[911]	[1122]	[1265]	[1405]	[1616]	[1758]
Theoretical flow at maximum speed	l/min [US gal/min]	15.6	24.0	33.6	43.2	50.4	50.4	57.6	68.4	75.6
		[4.1]	[6.3]	[8.9]	[11.4]	[13.3]	[13.3]	[15.2]	[18.0]	[20.0]

1 kg·m² = 23.68 lb·ft²

⚠ Caution

The rated and peak pressure mentioned are for pumps 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.



Product code

Model code

A B C D E F G H I J K L M N O
 S N P 2 N N / 6,0 R N 0 1 B A P 1 F 4 F 4 N N N / N N N N N N

A Family

SEP2NN	Low-cost Gr2 Pump	SKP2EN	High Torque Group 2 Pump + Ext.Drain RV
SNP2NN	Std Group 2 Pump	SKP2IN	High Torque Group 2 Pump + Int.Drain RV
SNP2EN	Std Group 2 Pump + External Drain RV	SKC2NN	High Torque Group 2 Pump Inlet & Outlet on Cover
SNP2IN	Std Group 2 Pump + Internal Drain RV	SHP2NN	High Pressure Group 2 Pump
SNP2KS	Std Group 2 Pump + Priority Flow Divider + Dynamic Load Sensing, Inlet on body-Outlet on cover + drain on cover driven side - special (project not 100% complete)	SHP2EN	High Pressure Group 2 Pump + Ext.Drain RV - never released, but feasible
SNC2NN	Std Group 2 Pump Inlet & Outlet in the Cover	SHP2IN	High Pressure Group 2 Pump + Int.Drain RV
SND2NN	Std Group 2 Pump Inlet on body outlet on cover	SNZ2NN	Std Group 2 Pump inlet on body-outlet on cover+RV int.drain on cover - special
SKP2NN	High Torque Group 2 Pump	XEP2NN	Economic Spare Product Gr2 Pump

B Displacement

3,0	Displacement 3,0cc - special	9,0	Displacement 9,0cc - special	022	Displacement 22cc
4,0	Displacement 4,0cc	9,5	Displacement 9,5cc - special	025	Displacement 25cc
5,5	Displacement 5,5cc - special	011	Displacement 11cc	028	Displacement 28cc - special
6,0	Displacement 6,0cc	012	Displacement 12cc - special		
6,5	Displacement 6,5cc - special	014	Displacement 14cc		
7,0	Displacement 7,0cc - special	016	Displacement 16cc - special		
7,5	Displacement 7,5cc - special	017	Displacement 17cc		
8,0	Displacement 8,0cc	019	Displacement 19cc		
8,7	Displacement 8,7cc - special	021	Displacement 21cc - special		

C Rotation

R	Right (Clockwise)
L	Left (Counterclockwise)

D Project version

N	Standard gear pump
6	Short version - special



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

E Mounting flange

Code	Description (Type of flange • Type of drive gear • Preferred ports for configuration)
01	pilot Ø36,5+4 holes
02	pilot Ø80+4 holes
03	pilot Ø52+0-ring+4 holes through body
04	pilot Ø50+2 holes through body
A4	pilot Ø50+2 holes through body+seal on pilot
05	pilot Ø50+2 holes through body
06	SAE A pilot Ø82,55+2 holes
A6	SAE A pilot Ø82,55+2 holes+seal on pilot
09	pilot Ø52,34+2 threaded holes
91	Outrig. Type 01+taper shaft 1:8-M12x1,25-Key4 - Outrigger bearing
94	Outrig. Type 04+taper shaft 1:5-M12x1,25-Key3 - Outrigger bearing
9A	Outrig. Type 01+taper shaft 1:8-M12x1,25-Key3.2 - Outrigger bearing
9B	Outrig. Type 01+taper shaft 1:8-M12x1,25-Key4+pilot Ø50,8 - Outrigger bearing
9C	Outrig. Type 01+taper shaft 1:8-M12x1,25-Key3.2+ radial roller bearing - Outrigger bearing
9F	Outrig. Type 02+taper shaft 1:5-M14x1,5-Key4+special shaft seal - Outrigger bearing
9J	Outrig. Type 06 with parallel shaft Ø3/4 (Ø19.05 mm) - Outrigger bearing
9L	Outrig. Type 01 parallel shaft Ø22 pilot Ø50,8 - Outrigger bearing
9M	Outrig. Type 01 parallel shaft Ø18 pilot Ø36,5 - Outrigger bearing

F Drive gear

AA	Taper 1:5-M12x1,25-Key 3
AB	Taper 1:5-M12x1,5-Key 3
AC	Taper 1:5-M14x1,5-Key 4
AD	Taper 1:5-M12X1,25-Key 3-Special
AM	Taper 1:5-M12X1,25-Key 3-without nut and washer
B1	Taper 1:8-M12x1,25-Key 4/6 lowered
B2	Taper 1:8-M12x1,5-Key 4/ 3,2-w/o nut and washer
BA	Taper 1:8-M12x1,25-Key 4
BB	Taper 1:8-M12x1,25-Key 4/3,2
BC	Taper 1:8-M12x1,5-Key 4/3,2
BJ	Taper 1:8-M12x1,25-Key 4/3 black steel
CA	Tang 8x17,8xL6,5 FR03
CD	Tang 8x Ø17,8xL6,5 Short - Special
CF	Tang 8x Ø17,46xL9,6-Special
DA	Spline DIN 5482 B17x14-L10
DB	Spline DIN 5482 B17x14-L14
DF	Spline DIN 5482 B17x14 - Special
FA	Parallel Ø15-L30+Key 4x25
GA	Parallel SAE Ø15,875-L23,8-Key 4x18
GB	Parallel SAE Ø15,875-L50,8-Key 4x40
SA	Spline SAE J498-9T-16/32
SB	Spline SAE J498-11T-16/32
SF	Spline SAE J498-9T-16/32-reinforced fillet
SG	Spline SAE J498-11T-16/32-Special



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
							F 4	F 4						

H Inlet size

I Outlet size

B5	15x35xM6	
B6	15x40xM6	
C3	13,5x30xM6	
C5	13,5x40xM8	
C7	20x40xM8	
D5	M18x1,5	
D7	M22x1,5	
E4	3/4-16UNF	
E5	7/8-14UNF	
E6	1-1/16-12UN	
F3	3/8 GAS	
F4	1/2 GAS	
F5	3/4 GAS	
H5	M18x1,5-IS06149	
H7	M22x1,5-IS06149	
H8	M27x2-IS06149	
H9	M33x2-IS06149	

M1	12x17,48x38,1xM6	
M2	12x17,48x38,1xM8	
M3	18,5x17,48x38,1xM8	
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(=)	
NN	Without outlet port	



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
□ □ □ □ □ □	□ □ □ □	□	□	□ □ □	□ □ □	□ □ □	□ □ □	□ □ □	□ □ □	□	□	NNN	N	N

M Set valve

NNN	No valve
V**	Integral relief valve pressure setting

**For details go to page 31

N Type mark

N	Standard Turolla Marking
A	Standard Turolla Marking+Customer Code
Z	Without Marking

O Mark position

N	Std Marking position (on top)
A	Special Marking position on the bottom