

NPSN,PSN,PSN-F PLASTIC SOLID HANDWHEELS



Original ELES Model VDN.FP,VDN.FP+I,VDN.FP+IR.



NPSN

(Without Handle)



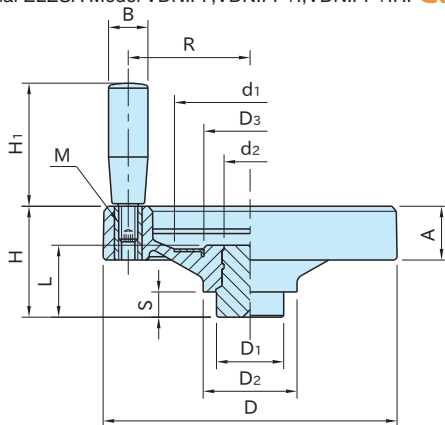
PSN

(With Revolving Handle)



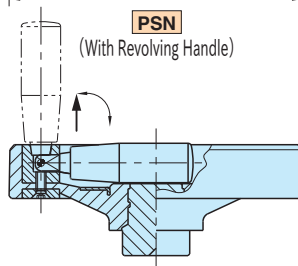
PSN-F

(With Revolving Fold-Away Handle)



PSN

(With Revolving Handle)



PSN-F

(With Revolving Fold-Away Handle)

Handwheel	Hub	Ring Cover	Handle
Phenolic plastic Glossy Finish Black	Steel(SUM24L) Black oxide finish	Aluminum (A3104) Silver matte	Phenolic plastic Glossy Finish Black (Only for PSN50 Polyamide plastic Black)

NPSN (Without Handle)

Part Number	D	H	A	D ₁	L	D ₂	D ₃	d ₁	d ₂	S	Weight (g)
NPSN 50	50	22	12	16	19	26	—	25	16	9	60
NPSN 63	63	28	13	20	24	28		31	20	10	115
NPSN 80	80	31	14		28	30	28	43	18		145
NPSN100	100	40	15	24	36	39	35	54	22	12	324
NPSN125	125	44		32	38	46	44	70	26.5	15	493
NPSN150	150	48	18			48					662
NPSN175	175	53	19	40	43	56	55	90	33		991
NPSN200	200	57	21			60					1196
NPSN250	249	65	25	49	44	70	66	110	40	1982	
NPSN300	301	75		58	56	82	94	148	58	18	2920

PSN (With Revolving Handle)

Part Number	D	H	A	D ₁	L	D ₂	D ₃	d ₁	d ₂	S	B	H ₁	M	R	Weight (g)			
PSN 50	50	22	12	16	19	26	—	25	16	9	14	28	M 6X1	19	88			
PSN 63	63	28	13	20	24	28		31	20	10	18	40		24	172			
PSN 80	80	31	14		28	30	28	43	18					32	207			
PSN100	100	46	21	24	33.5	39	35	54	22	12	21	50	M 8X1.25	39	361			
PSN125	125	57	28	32	38	46	44	70	26.5	15	23	65		M 8X1.25	50	568		
PSN150	150	60	30			48	50	80							62	737		
PSN175	175	66	32	40	43	56	55	90			26	80	M10X1.5		72.5	1089		
PSN200	200	68				60									82	1314		
PSN250	249	75	36	49	44.5	70	66	110	40	18	28	90		106	2100			
PSN300	301	87				82	94	148	58					132	3138			

PSN-F (With Revolving Fold-Away Handle)

Part Number	D	H	A	D ₁	L	D ₂	D ₃	d ₁	d ₂	S	B	H ₁	R	Weight (g)		
PSN100F	100	51	26	24	33.5	39	35	54	22	12	21.5	56	37	427		
PSN125F	125	57	28	32	38	46	44	70	26.5	15			23	65	48	596
PSN150F	150	60	30			48	50	80					57	803		
PSN175F	175	66	32	40	43	56	55	90	33		25.5	80	68	1147		
PSN200F	200	68				60					27	90	76.5	1462		
PSN250F	249	75	36	49	44.5	70	66	110	40				100	2248		

Features

- The solid design is resistant to impact shock.
- Handwheel of 125mm or greater diameter has finger grips.

Note

The **NPSN** handwheel is not provided with a handle-mounting tapped hole.

Technical Information

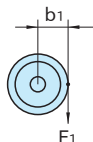
Working temperature : -20°C to 110°C

Strength Data

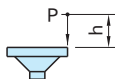
Wheel Dia.	Max. Torque T ₁ (N·m)	Impact Strength S ₁ (J)
50	55	3
63	75	4
80	120	5
100	150	6
125	300	8
150	400	14
175	500	16
200	600	18
250	1000	28
300	1100	35

Allowable Sizes of Drill & Keyway in the Hub

Wheel Dia.	d ₃	d ₄	b	t
50	12	10	3	11.4
63	13	11	4	12.8
80			5	15.3
100	16	13		18.3
125	20	16		
150				
175	26	22	6	24.8
200				
250	35	27	8	30.3
300	42	38	10	41.3



$$T_1 [\text{N} \cdot \text{m}] = F_1 [\text{N}] \times b_1 [\text{m}]$$



$$S_1 [\text{J}] = P [\text{N}] \times h [\text{m}]$$

※P=6.7N (hard ball)

