



MATERIAL

High-strength, reinforced phenolic based (PF) Duroplast, black colour, glossy finish.



RING

Matte anodised aluminium.

(ELESA Original design - Reg. U.S. Pat. & TM Off.)



STANDARD EXECUTIONS

Black-oxide steel hub, reamed hole.

See table for maximum permissible boring diameters d' and d'' .

- **VDN.FP-A**: without handle.
- **VDN.FP+I-A**: with revolving handle I.301+x (see page 664) in phenolic based (PF) Duroplast.
- **VDN.FP+IR-A**: with fold-away handle IR.407 (see page 672) in Duroplast.
- **VDN.FP+IRS-A**: with automatic fold-away safety handle "Fold-O-matic"® type IRS.820 (see page 676) in technopolymer.



ACCESSORIES ON REQUEST

Axial retaining washer GN 184 (on page 1021).



SPECIAL EXECUTIONS ON REQUEST

- Hub with hole and keyway in compliance with ANSI B17.1-1967 tolerance (see page A-16) .

To order the handwheel with keyway complete code and description with the index -K (i.e. 973690-K VDN.80 FP+I-A 5/16-K).

- Handwheels with hub not drilled.
- Handwheels with incorporated balancing counterweights.

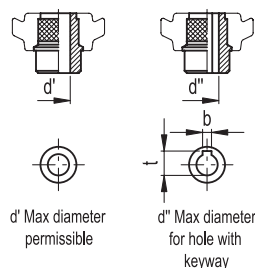


ERGONOMY

The rim with internal rear scallops makes the grip and the manoeuvre of the handwheel easier.



ELESA Original design

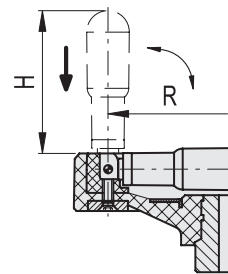
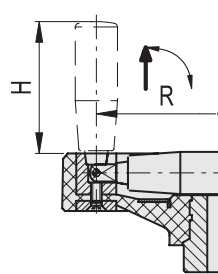
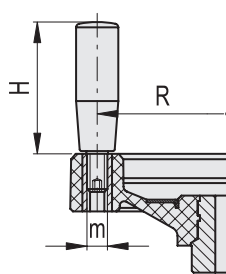
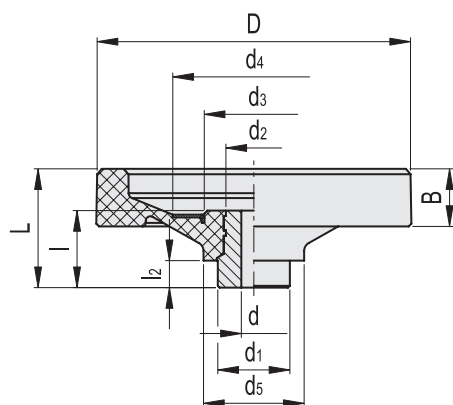


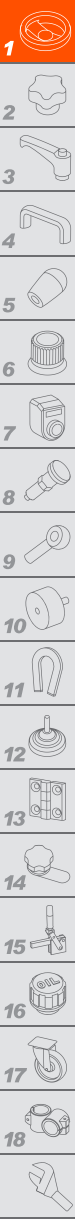
VDN.FP-A

VDN.FP+I-A

VDN.FP+IR-A

VDN.FP+IRS-A





VDN.FP-A

INCH

Code	Description	D	d	L	B	d1	d2	d3	d4	d5	l	l2	d'	d"	t	b	C# [ft·lb]	L# [ft·lb]	⚖
973690	VDN.80 FP-A 5/16	3.15	0.312	1.22	0.55	0.79	0.71	1.1	1.69	1.18	1.1	0.39	0.500	0.437	0.531	1/8	88	4	0.26
973709	VDN.100 FP-A 3/8	3.94	0.375	1.57	0.59	0.94	0.87	1.38	2.13	1.54	1.42	0.47	0.625	0.500	0.560	1/8	111	4	0.71
973719	VDN.125 FP-A 3/8	4.92	0.375	1.73	0.59	1.26	1.04	1.73	2.76	1.81	1.5	0.59	0.750	0.625	0.709	3/16	221	6	1.09
973729	VDN.150 FP-A 1/2	5.91	0.500	1.93	0.71	1.26	1.04	1.73	2.76	1.89	1.5	0.59	0.750	0.625	0.709	3/16	295	10	1.46
973739	VDN.175 FP-A 1/2	6.89	0.500	2.13	0.75	1.57	1.3	2.17	3.54	2.2	1.69	0.59	1.000	0.750	0.837	3/16	369	12	2.18
973749	VDN.200 FP-A 5/8	7.87	0.625	2.28	0.83	1.57	1.3	2.17	3.54	2.36	1.69	0.59	1.000	0.750	0.837	3/16	442	13	2.63
973769	VDN.250 FP-A 5/8	9.8	0.625	2.56	0.98	1.93	1.57	2.6	4.33	2.76	1.73	0.59	1.250	1.000	1.114	1/4	737	21	4.37

VDN.FP+I-A

INCH

Code	Description	D	d	L	B	d1	d2	d3	d4	d5	l	l2	H	m	R	d'	d"	t	b	C# [ft·lb]	L# [ft·lb]	⚖
973691	VDN.80 FP+I-A 5/16	3.15	0.312	1.22	0.55	0.79	0.71	1.1	1.69	1.18	1.1	0.39	1.57	M6	1.26	0.500	0.437	0.531	1/8	88	4	0.35
973710	VDN.100 FP+I-A 3/8	3.94	0.375	2.01	1.02	0.94	0.79	1.38	2.13	1.54	1.32	0.47	1.97	M6	1.54	0.625	0.500	0.560	1/8	111	7	0.71
973720	VDN.125 FP+I-A 3/8	4.92	0.375	2.24	1.1	1.26	0.96	1.73	2.76	1.81	1.5	0.59	2.56	M8	1.97	0.750	0.625	0.709	3/16	221	10	1.09
973730	VDN.150 FP+I-A 1/2	5.91	0.500	2.36	1.18	1.26	0.96	1.97	3.15	1.89	1.5	0.59	2.56	M8	2.44	0.750	0.625	0.709	3/16	295	12	1.46
973740	VDN.175 FP+I-A 1/2	6.89	0.500	2.6	1.26	1.57	1.22	2.17	3.54	2.2	1.69	0.59	3.15	M10	2.85	1.000	0.750	0.837	3/16	369	15	2.18
973750	VDN.200 FP+I-A 5/8	7.87	0.625	2.68	1.26	1.57	1.22	2.17	3.54	2.36	1.69	0.59	3.54	M10	3.23	1.000	0.750	0.837	3/16	442	16	2.63
973760	VDN.225 FP+I-A 5/8	8.86	0.625	2.8	1.3	1.93	1.5	2.6	4.33	2.6	1.75	0.59	3.54	M10	3.7	1.250	1.000	1.114	1/4	663	18	3.5
973770	VDN.250 FP+I-A 5/8	9.8	0.625	2.95	1.42	1.93	1.5	2.6	4.33	2.76	1.75	0.59	3.54	M10	4.17	1.250	1.000	1.114	1/4	737	26	4.37

VDN.FP+IR-A

INCH

Code	Description	D	d	L	B	d1	d2	d3	d4	d5	l	l2	H	R	d'	d"	t	b	C# [ft·lb]	L# [ft·lb]	⚖
973711	VDN.100 FP+IR-A 3/8	3.94	0.375	2.01	1.02	0.94	0.79	1.38	2.13	1.54	1.32	0.47	2.2	1.46	0.625	0.500	0.560	1/8	111	7	0.83
973721	VDN.125 FP+IR-A 3/8	4.92	0.375	2.24	1.1	1.26	1	1.73	2.76	1.81	1.5	0.59	2.56	1.89	0.750	0.625	0.709	3/16	221	10	1.16
973731	VDN.150 FP+IR-A 1/2	5.91	0.500	2.36	1.18	1.26	0.96	1.97	3.15	1.89	1.5	0.59	2.56	2.24	0.750	0.625	0.709	3/16	295	12	1.53
973741	VDN.175 FP+IR-A 1/2	6.89	0.500	2.6	1.26	1.57	1.22	2.17	3.54	2.2	1.69	0.59	3.15	2.68	1.000	0.750	0.837	3/16	369	15	2.25
973751	VDN.200 FP+IR-A 5/8	7.87	0.625	2.68	1.26	1.57	1.22	2.17	3.54	2.36	1.69	0.59	3.54	3.01	1.000	0.750	0.837	3/16	442	16	2.8
973761	VDN.225 FP+IR-A 5/8	8.86	0.625	2.8	1.3	1.93	1.5	2.6	4.33	2.6	1.75	0.59	3.54	3.46	1.250	1.000	1.114	1/4	663	18	3.67
973771	VDN.250 FP+IR-A 5/8	9.8	0.625	2.95	1.42	1.93	1.5	2.6	4.33	2.76	1.75	0.59	3.54	3.94	1.250	1.000	1.114	1/4	737	26	4.45

VDN.FP+IRS-A

INCH

Code	Description	D	d	L	B	d1	d2	d3	d4	d5	l	l2	H	R	d'	d"	t	b	C# [ft·lb]	L# [ft·lb]	⚖
973732	VDN.150 FP+IRS-A 1/2	5.91	0.500	2.36	1.18	1.26	0.96	1.97	3.15	1.89	1.5	0.59	2.56	2.24	0.750	0.625	0.709	3/16	295	12	1.45
973742	VDN.175 FP+IRS-A 1/2	6.89	0.500	2.6	1.26	1.57	1.22	2.17	3.54	2.2	1.69	0.59	3.15	2.68	1.000	0.750	0.837	3/16	369	15	2.14
973752	VDN.200 FP+IRS-A 5/8	7.87	0.625	2.68	1.26	1.57	1.22	2.17	3.54	2.36	1.69	0.59	3.54	2.93	1.000	0.750	0.837	3/16	442	16	2.57
973762	VDN.225 FP+IRS-A 5/8	8.86	0.625	2.8	1.3	1.93	1.5	2.6	4.33	2.6	1.75	0.59	3.54	3.39	1.250	1.000	1.114	1/4	663	18	3.43
973772	VDN.250 FP+IRS-A 5/8	9.8	0.625	2.95	1.42	1.93	1.5	2.6	4.33	2.76	1.75	0.59	3.54	3.86	1.250	1.000	1.114	1/4	737	26	4.3

For maximum torque (C) and impact strength (L) see Technical data (on page A-3).