SWS Bearings LTD
High Quality Bearing Manufacturer

SWS Bearings LTD

----- Your Reliable Bearings Factory

BALL BUSHING UNITS



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Email: sales@sws-bearings.com

SWS Bearings LTD is one of the most reliable bearings factoriesand exporters in China. We mainly supply roller and ball bearings.

SWS was founded in 2007, located in Changzhou city,jiangsu Province It just takes around 2 hours from Changzhou to Shanghai by car, and very convenient transportation.

In 2009, SWS has invested three factories in Shandong, and Dalian city. Our products sell worldwide.

Our products and service include:

●Miniature and middle-large size deep groove ball bearing
●Double-row self-aligning roller bearing
●Four-row heavy type cylindrical roller bearing
●Self-aligning roller bearing
●Axial thrust ball bearing, thrust ball and roller bearing
●Single and double taper roller bearing
●Needle roller bearing
●High precision spindle bearing
●Pillow block bearing, bush, steel balls
●Technical support
●Maintenance
●Products training

Bore size range:3mm~6.5m
Weight range:10.5g~2.6ton

SWS bearings are widely used in railway, mining, mechanical equipment, automobile, ship, metallurgy, petrifaction, electric power, agriculture, textile and aviation, etc.

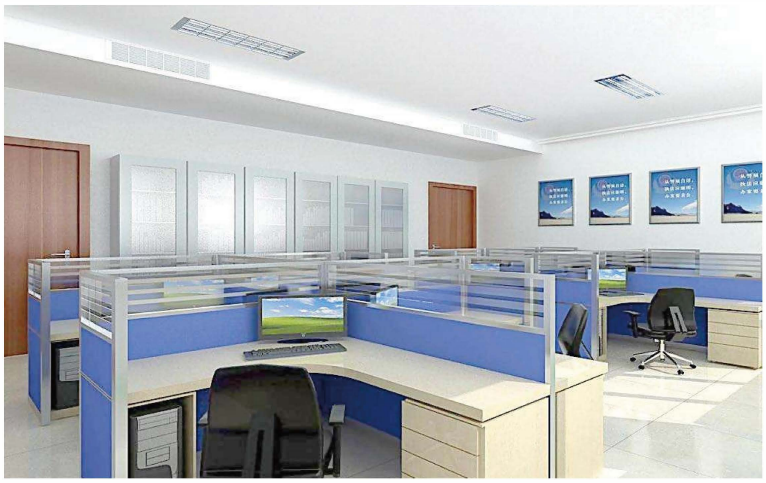
SWS products have sell to Europe, Asia, America, south-east Asia, which are our most important market. We have spent much time on developing new products, and also produce top quality products. We are very popular in domestic and abroad.

Welcome your inquiry and Look forward our cooperation in the future.

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Factory



Office



Workshop



Equipment



Product



Product

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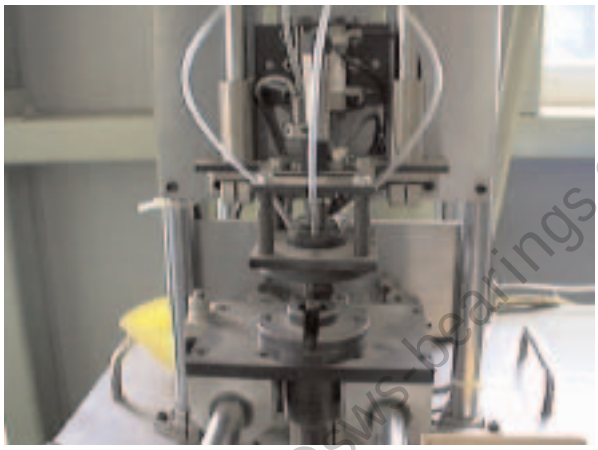
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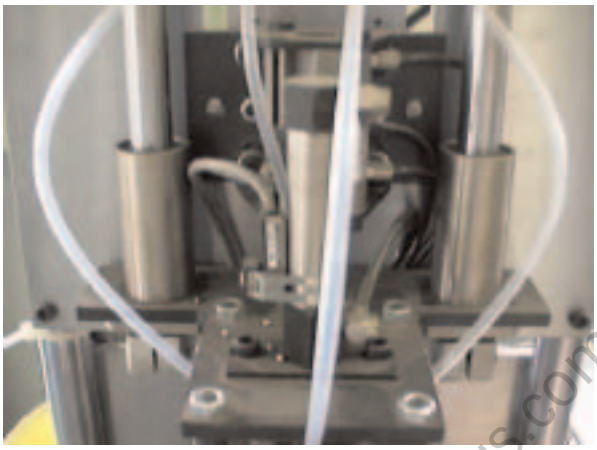
APPLICATION EXAMPLES



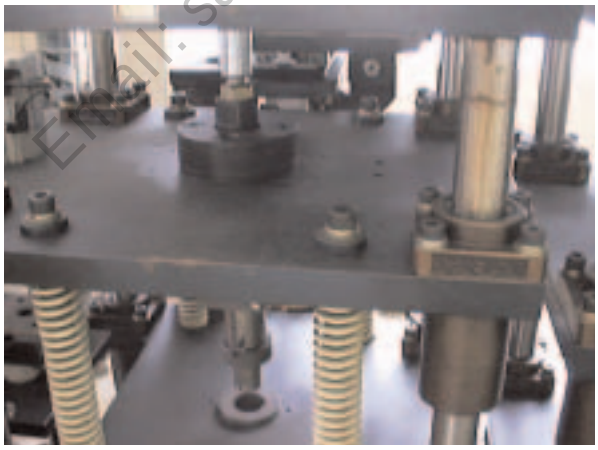
NF LONG (SPIGOT FLANGE)



LC ALUMINIUM HOUSING



NF LONG (END FLANGE)



LCB-B TYPE

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BALL BUSHING UNITS

Hepco has distributed ASK's linear motion products exclusively for over 20 years. The current range continues ASK's tradition of offering designers and engineers the highest quality linear bearings - standard linear ball bushings are complemented by a wide variety of flanged units and housings for ease of installation. The combination of the best application advice from Hepco's Technical Sales Team and the wide SWS range means Customer requirements are met exactly.

BALL BUSHINGS

A quality range of precision bearings with plastic retainers. A very competitively priced product with no sacrifice to quality. Also includes a range of 'long series' ball bushings with extra rigidity.



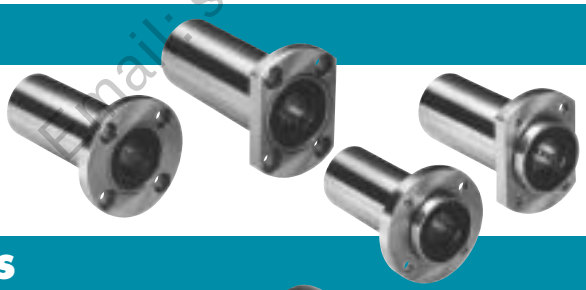
NF SERIES

A compact ball bushing with integral outer case and flange. This product with its machined datum face offers the designer a unique compact and very simple solution for mounting a datum platform perpendicular to the direction of travel.



NF LONG SERIES

A very versatile range of products. Two flange profiles and two methods of location. In addition the longer bearing length gives much greater rigidity and load capacity.



LCF-B FLANGED HOUSINGS

For more arduous applications than the NF long type product the use of the LCF flanged housing is recommended. With a longer distance between the two separate internal ball bushings this product offers even greater rigidity and load carrying capacity. Location on both sides of a spigot flange are offered, as is the capability to connect to a central lubrication system.



LC HOUSINGS

For applications where the datum face is required to be mounted in the same plane as the direction of travel the LC housing offers the designer a very effective 'off the shelf' solution. The simple 'four' fixing hole arrangement with machined datum faces also offers the ability of fixation from either side.



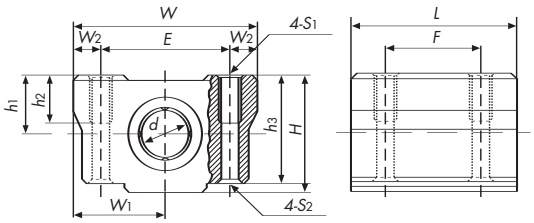
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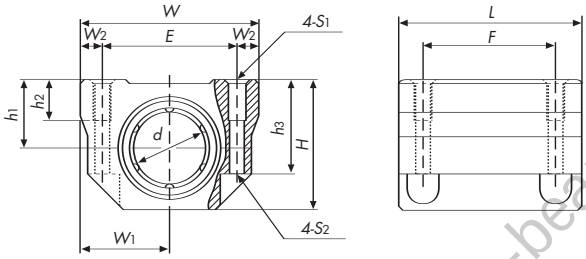
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BALL BUSHING UNITS
LC SERIES

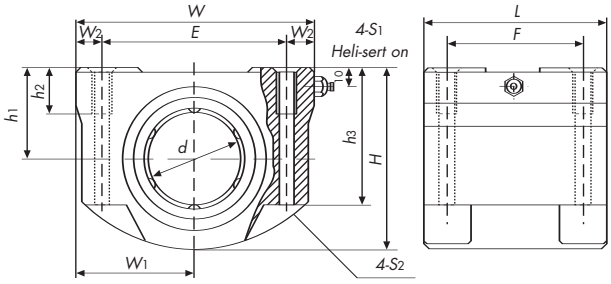
- Lightweight aluminium housing
- 4 fixing holes allow simple mounting to plate
- Can be fixed from either side



LC-8VUU–12VUU



LC-12VUU–30VUU



LC-40VUU Note: Grease nipple attached (A-PT 1/8)

Reference Number	Main Dimensions													Weight	Basic Load Capacity	
	d	h1 ±0.02	W	E ±0.1	W1 ±0.02	W2	h2	h3	H	L	F	S1	S2	(kg)	C (kgf)	C (kgf)
LC-8VUU	8	11	34	24	17	5	8	20	22	30	18	M4	3.4	0.040	27	23
LC-10VUU	10	13	40	28	20	6	12	23.5	26	36	21	M5	4.3	0.069	38	43
LC-12VUU	12	15	43	30.5	21.5	6.25	10	21	29	39	26	M5	4.3	0.10	42	44
LC-16VUU	16	19	50	36	25	7	12	28	37	49	34	M5	4.3	0.18	79	72
LC-20VUU	20	21	54	40	27	7	12	32	41	55	40	M6	5.1	0.23	88	103
LC-25VUU	25	26	76	54	38	11	18	37	51	73	50	M8	6.9	0.53	104	200
LC-30VUU	30	30	78	58	39	10	18	43	57	80	58	M8	6.9	0.63	148	255
LC-40VUU	40	40	110	80	55	15	20	60	78	80	60	M10	9	1.54	280	443

Note: All LC Series units are supplied with seals both ends.

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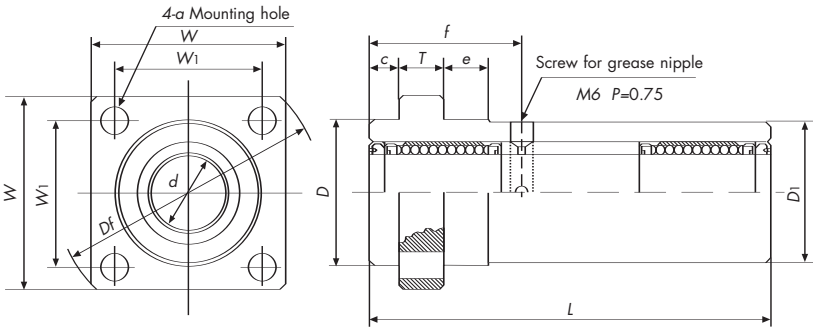
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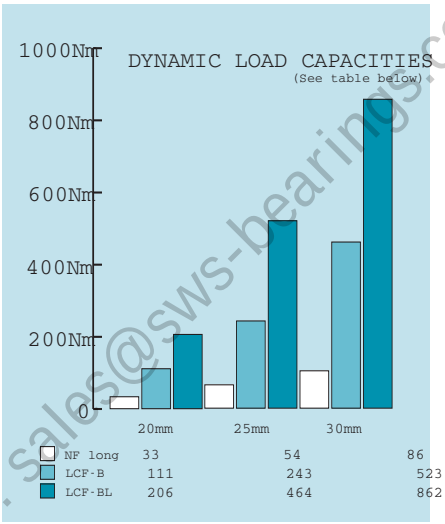
BALL BUSHING UNITS WITH FLANGE

LCF-B·BL SERIES



- Ideal for arduous applications
- Connections for (manual or automatic) lubrication
- Greater rigidity
- High load / moment load capacity
- Location diameter on both sides of spigot





Reference Number	Main Dimensions												Number of Ball Circuits	Weight (kg)	Basic Load Capacity		Moment Load Capacity	
	d	D h7	L 0 -0.3	Df	W	T	W1	a	c 0 -0.3	e	f	D1			C (kgf)	Co (kgf)	Dyn Nm	Stat Nm
LCF-12BUU	12	26	72	48	36	8	26	6	8	8	36	25	5	0.25	123	90	46	34
LCF-16BUU	16	32	76	58	45	10	32	7	8	10	38	31	5	0.38	166	130	65	51
LCF-20BUU	20	40	82	73	53	12	40	7	8	12	41	39	6	0.65	257	158	111	68
LCF-25BUU	25	45	102	83	62	12	45	9	12	12	51	44	6	0.88	459	278	243	147
LCF-30BUU	30	52	122	94	69	15	52	9	12	15	61	51	6	1.36	721	394	523	286
LCF-40BUU	40	65	144	112	82	15	65	9	12	15	72	64	6	2.12	1131	652	820	473
LCF-16BLUU	16	32	100	58	45	10	32	7	8	10	38	31	5	0.45	166	130	104	82
LCF-20BLUU	20	40	120	73	53	12	40	7	8	12	41	39	6	0.85	257	158	206	126
LCF-25BLUU	25	45	150	83	62	12	45	9	12	12	51	44	6	1.15	464	278	464	278
LCF-30BLUU	30	52	180	94	69	15	52	9	12	15	61	51	6	1.77	721	394	862	471
LCF-40BLUU	40	65	240	112	82	15	65	9	12	15	72	64	6	3.15	1131	652	1973	1137

Note: 1 To the axis, the concentricity of outer surface of the case and squareness of mounting face of the flange are below 0.025 respectively.
2 The shaft tolerance of h7 for normal clearance and h6, h5 for tight clearance are advisable.
3 All mounted with specific seals at two ends.

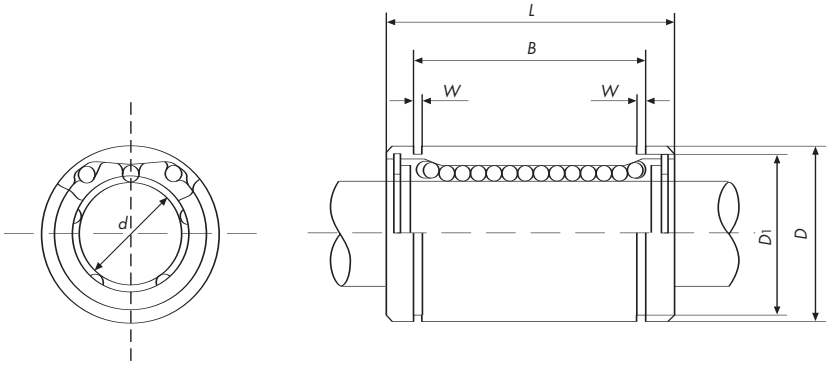
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BALL BUSHINGS
L SERIES
NL SERIES

- Plastic retainers for quiet operation
- Metric dimensions for European market
- NL long series for greater rigidity



L SERIES

Reference Number		Inside Diameter		Outside Diameter		Length		Setting Groove				Number of Ball Circuits	Weight	Basic Load Capacity	
	With two seals	d	Tolerance	D	Tolerance	L	Tolerance	B	Tolerance	W	D1		(kg)	C (kgf)	Co (kgf)
L-6V	L-6VUU	6	+0.008 0	12	0 -0.008	19	0 -0.2	13.5	0 -0.2	1.15	11.5	4	0.007	21	13
L-8V	L-8VUU	8		16		25		16.5		1.15	15.2	4	0.014	27	23
L-10V	L-10VUU	10		19	0 -0.009	29		21.9		1.35	18.0	4	0.030	38	43
L-12V	L-12VUU	12		22		32		22.9		1.35	21.0	4	0.032	42	44
L-16V	L-16VUU	16	+0.009 -0.001	26		36		25		1.35	24.9	5	0.054	60	66
L-20V	L-20VUU	20		32	0 -0.011	45		31.5		1.65	30.3	5	0.090	88	103
L-25V	L-25VUU	25	+0.011 -0.001	40		58	0 -0.3	44.1	0 -0.3	1.90	38.0	6	0.212	104	200
L-30V	L-30VUU	30		47		68		52.1		1.90	45.5	6	0.330	148	255
L-40V	L-40VUU	40	+0.013 -0.002	62	0 -0.013	80		60.7		2.20	59.0	6	0.780	280	443

NL SERIES

Reference Number		Inside Diameter		Outside Diameter		Length		Setting Groove				Number of Ball Circuits	Weight Capacity	Basic Load	
	With two seals	d	Tolerance	D	Tolerance	L	Tolerance	B	Tolerance	W	D1		(kg)	C (kgf)	Co (kgf)
NL-8V	NL-8VUU	8	0 -0.010	15	0 -0.016	45	0 -0.3	35	0 -0.3	1.10	14.3	4	0.028	45	64
NL-10V	NL-10VUU	10		19		55		44		1.35	18	4	0.060	63	86
NL-12V	NL-12VUU	12		21		57		46			20	4	0.064	70	88
NL-16V	NL-16VUU	16		28		70		53		1.65	27	4	0.140	125	158
NL-20V	NL-20VUU	20	0 -0.012	32	0 -0.019	80		61			30.5	5	0.180	148	206
NL-25V	NL-25VUU	25		40		112	0 -0.4	82	0 -0.4	1.90	38	6	0.424	174	400
NL-30V	NL-30VUU	30		45		123		89			43	6	0.480	247	510

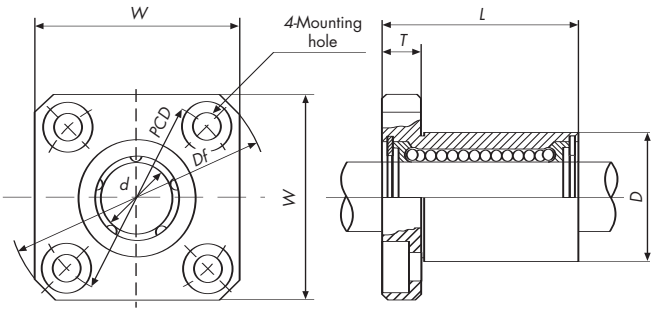
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BALL BUSHING UNITS WITH FLANGE NF SERIES



- Compact bushing with integral outer case
- Machined datum for end face mounting
- Outer location diameter



Reference Number	Main Dimensions										Number of Ball Circuits	Weight	Basic Load Capacity	
	d	*Tolerance*	*D h1*	*L*	*Tolerance*	*Df*	*W*	*T*	*PCD*	*Clamping Bolt*		(kg)	*C* (kgf)	*Co* (kgf)
NF-8VUU	8	0 -0.009	16	24	0 -0.2	32	25	5	24	M3	4	0.04	27	23
NF-10VUU	10		19	29		39	30	6	29	M4	4	0.06	38	43
NF-12VUU	12		22	30		42	32	6	32	M4	4	0.08	42	44
NF-16VUU	16		26	36		46	35	6	36	M4	5	0.10	60	66
NF-20VUU	20	0 -0.010	32	42		54	42	8	43	M5	5	0.18	88	103
NF-25VUU	25		40	58	0 -0.3	62	50	8	51	M5	6	0.30	102	200
NF-30VUU	30		47	64		76	60	10	62	M6	6	0.55	148	255
NF-35VUU	35	0 -0.012	52	70		82	64	10	67	M6	6	0.59	167	314
NF-40VUU	40		60	80		96	75	13	78	M8	6	1.21	280	443

Note: The squareness of datum face of the flange to axis: below 0.012 for ø8~ø16.
below 0.015 for ø20~ø30 below 0.020 for ø35~ø40.

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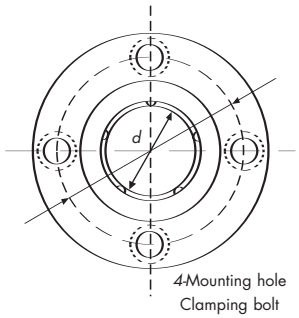
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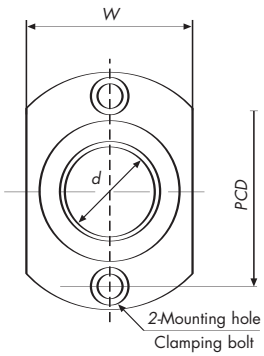
BALL BUSHING UNITS
WITH FLANGE
NF LONG SERIES

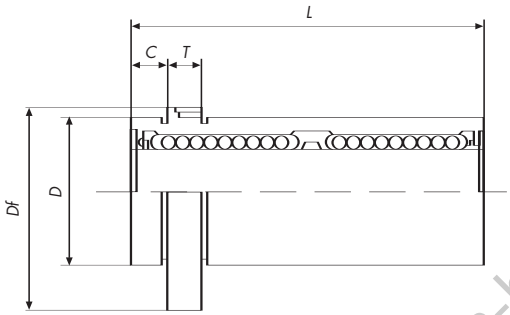
- Longer series than NF type
- Spigot type for end location and mounting
- Oval flange where space is a premium
- Long series for greater rigidity

NFID NFED



NFIO NFEO





SPIGOT TYPE

Reference Number	Main Dimensions												Weight	Basic Load Capacity		Moment Load Capacity	
	d	Tolerance	D	Tolerance	L	Tolerance	Df	T	C	W	PCD	Clamping Bolt	(kg)	C (kgf)	Co (kgf)	Dyn Nm	Stat Nm
NFID-8VLUU	8	0 -0.010	15	0 -0.013	45	0 -0.3	32	5	5	N/A	24	M3	0.048	45	32	6	4
NFIO-8VLUU										21			0.042				
NFID-10VLUU	10		19	0 -0.016	55		40	6	6	N/A	29	M4	0.088	63	60	10	9
NFIO-10VLUU										25			0.078				
NFID-12VLUU	12		21		57		42	6	6	N/A	32	M4	0.093	70	86	11	12
NFIO-12VLUU										27			0.083				
NFID-16VLUU	16		28		70		48	6	6	N/A	38	M4	0.170	125	152	26	31
NFID-20VLUU	20	0 -0.012	32	0 -0.019	80	0 -0.4	54	8	8	N/A	43	M5	0.247	148	206	33	46
NFID-25VLUU	25		40		112		62	8	8	N/A	51	M5	0.502	174	386	54	120
NFID-30VLUU	30		45		123		74	10	10	N/A	60	M6	0.631	247	452	86	157

END FLANGE TYPE

Reference Number	Main Dimensions												Weight	Basic Load Capacity		Moment Load Capacity	
	d	Tolerance	D	Tolerance	L	Tolerance	Df	T	C	W	PCD	Clamping Bolt	(kg)	C (kgf)	Co (kgf)	Dyn Nm	Stat Nm
NFED-8VLUU	8	0 -0.010	15	0 -0.013	45	0 -0.3	32	5	0	N/A	24	M3	0.048	45	32	6	4
NFEO-8VLUU										21			0.042				
NFED-10VLUU	10		19	0 -0.016	55		40	6	0	N/A	29	M4	0.088	63	60	10	9
NFEO-10VLUU										25			0.078				
NFED-12VLUU	12		21		57		42	6	0	N/A	32	M4	0.093	70	86	11	12
NFEO-12VLUU										27			0.083				
NFED-16VLUU	16		28		70		48	6	0	N/A	38	M4	0.170	125	152	26	31
NFED-20VLUU	20	0 -0.012	32	0 -0.019	80	0 -0.4	54	8	0	N/A	43	M5	0.247	148	206	33	46
NFED-25VLUU	25		40		112		62	8	0	N/A	51	M5	0.502	174	386	54	120
NFED-30VLUU	30		45		123		74	10	0	N/A	60	M6	0.631	247	452	86	157

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