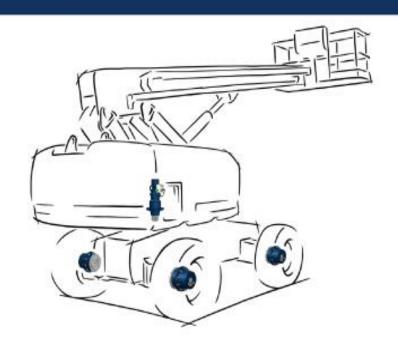


Catalog

WHEEL DRIVE UNIT



VB

series

22 OCT 2018 REV. A





VB04 Wheel Drive Single Reduction

	VE	304 Wheel	Drive Sing	gle Reduct	ion	
Max. intermitte Max. input spe	Max. Continuous torque ¹⁾ 17,702 in-lbf Max. intermittent torque 34,404 in-lbf Max. input speed 1,000 RPM Approximate weight 71 lbs Approximate oil capacity 17 fl oz				Nm Nm kg	
Approximate o	лі сарасіту		eature Cha	0.5 art	L	
Feature		Descript	tion		Code	Sample
GEAR RATIO		6.15			06	VB04 06
	Motor Pilot	Motor Mount	Spindle Pilot	Spindle Mount		
INPUT ²⁾	Ø4.00"	4X M12X1.5 Ø5.00" B.C.	Ø6.30"	8X M10X1.5 Ø7.09" B.C.	S1	VB0406 S1
MOTOR	Teet	h	Pi	tch		
COUPLING	12T		12	/24	12	VB0406S1 12
HUB	Wheel Pilot Dia.	Flange Thk.	Bolt Pattern			VB0406SI12H 1
	7.48"	0.591"		Ø9.5" B.C.	H1	
STUDS	Size & F No Str 9/16"-18	ud	1.87"(47.6)	tud - -	NS BE	VB0406S112H1 B E
	· · · · · · · · · · · · · · · · · · ·			1		

Nm

343

244

30

21 X

VB0406S112H1BE-30

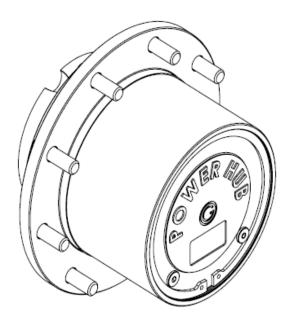
BRAKE

RATING

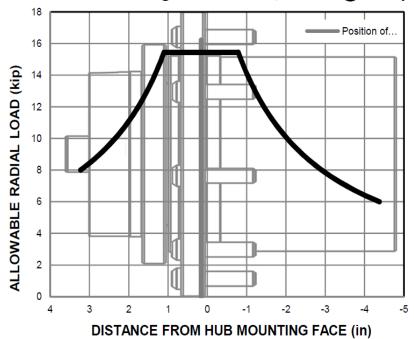
lb-in

3037

2158



VB04 Bearing Life Curve: 3,000 hrs @ 100 rpm



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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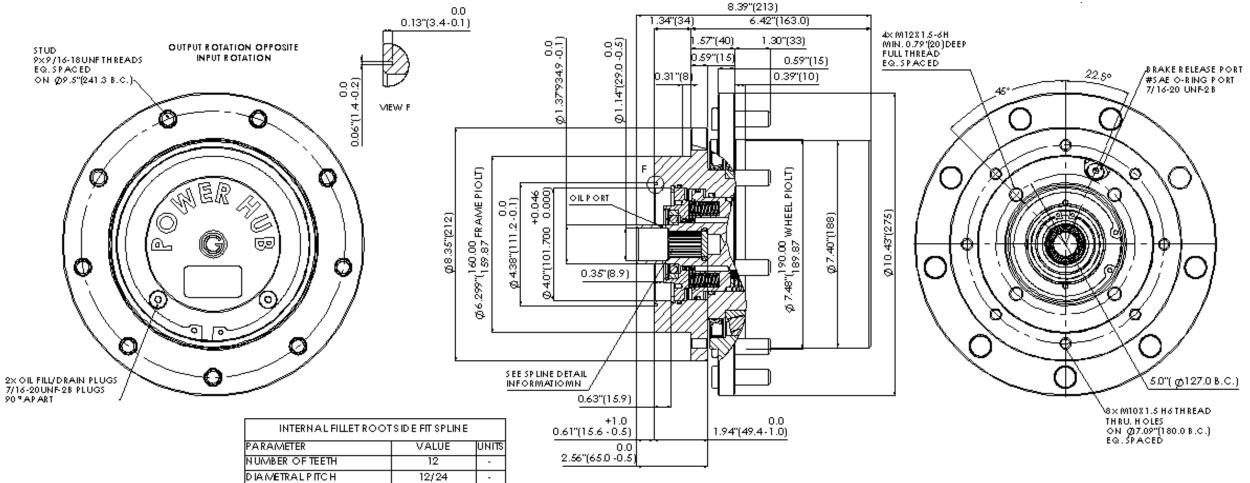
Ontinuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.

²⁾ O-rings for motor/brake port interface not included

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange thickness



VB04 Wheel Drive Single Reduction



PRESSURE ANGLE 30 Deg. 21.997 BASE DAIMETER mm PITCH DIA METER 25.4 mm MAJOR DIAMETER 27.74/27.59 mm FORM DIAMETER 26.93 mm MINOR DIAMETER 23.224/23.097 mm CIRCULAR SPACE WIDTH MAXACTUAL 4..318 mm MIN EFFECTIVE 4.216 mm FILLET RADIUS R 0.76/0.64 mm MEAS, BETWEEN PINS 19.020/19.190 mm PIN DIAMETER 4.496 mm тоотн ғімвн 3.2 υM WHITE MOTOR CATALOGE

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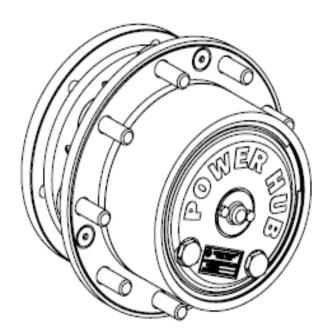
VB07 Wheel Drive Double Reduction — Cartridge Input

VB07 Wheel Drive Double Reduction: Cartridge Input								
Max. Continuous torque ¹⁾	30,975 in-lbf	3,500 Nm						
Max. intermittent torque	61,950 in-lbf	7,000 Nm						
Max. input speed	5,000 RPM							
Approximate weight	100 lbs	45.5 kg						
Approximate oil capacity	23 floz	0.68 L						

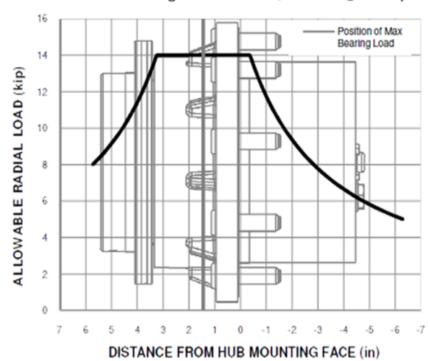
Feature Chart

Feature Chart							
Feature		Descr	iption		Code	Sample	
		18.	78		19		
		24.	92		25		
		35.	92		36		
GEAR RATIO		47.	60		48	VB0758	
		57.	49		58		
		64.	08		64		
					· · · · · · · · · · · · · · · · · · ·		
	Motor Pilot	Motor Mount	Spindle Pilot	Spindle Mount			
		2X 7/16"-		6X 5/8"-11 UNC			
	Ø5.31"	14UNC-2B	Ø7.00"	on	R1		
CARTRIDGE		Ø6.10" B.C.		Ø8.25" B.C.			
INPUT ²⁾		2X 7/16"-		6X 5/8"-11 UNC	Ī	VB0758R1	
INFO	Ø5.31"	14UNC-2B	Ø7.00"	on	R2		
		Ø6.22" B.C.		Ø8.25" B.C.			
	Ø5.31"	4X M12X1.5	Ø7.00"	6X M16-2.0 on	R3		
		Ø6.22" B.C.		Ø8.25" B.C.	IK5		
MOTOR	Teet		Pitch				
COUPLING	15T		16/32		15	VB0758R1 13	
0001 20	13T	•	1	6/32	13		
HUB	Wheel Pilot Dia.	Flange Thk.	Bolt	Pattern		VB0758R113H 1	
пов	7.885"	0.906"	9X Ø.681	on Ø9.5" B.C.	H1	VDU/JORTIJITI	
	Size & F	Pitch	Stud	Length ⁸⁾			
	No St	ud		-	NS		
STUDS	1/2"-20 U	NF-2A	2.23"(56.6)	2.43"(61.7)	AA / AJ	\/D0750D443U4C1	
51005	9/16"-18U		2.23"(56.6)	2.43"(61.7)	BA / BJ	VB0758R113H1CJ	
	5/8"-11 U		2.23"(56.6)	2.43"(61.7)	CA / CJ		
	M16X1.	5-6g	2.23"(56.6)	2.43"(61.7)	EA / EJ		
	in-lb			Nm			
					Blank		
BRAKE	1100	 0		124	11		
RATING	130	 0	ļ	147	13	VB0758R113H1CJ-13	
	1600		l	181	16		
	200		}	248	22		
						I	

Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.



VB07 Bearing Life Curve: 3,000 hrs @ 100 rpm



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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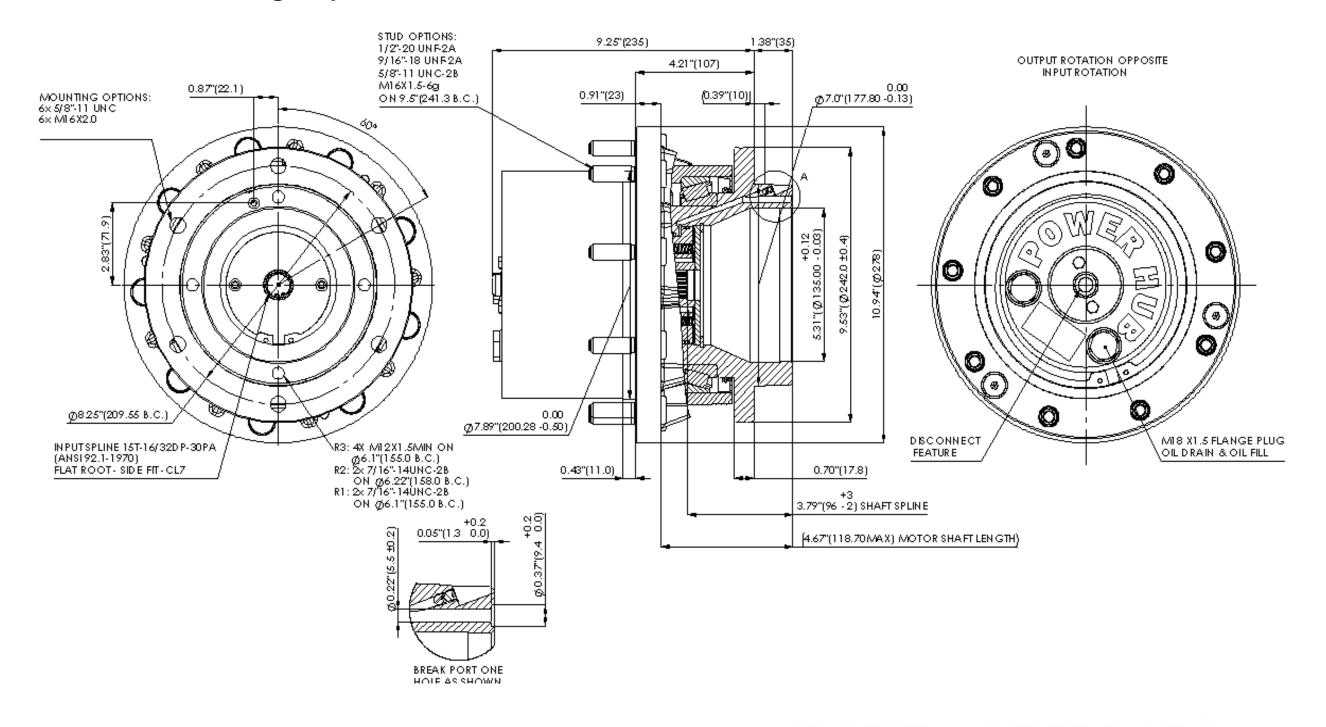
O-rings for motor/brake port interface not included

Description in the properties of the properti



VB07 Wheel Drive Double Reduction

— Cartridge Input



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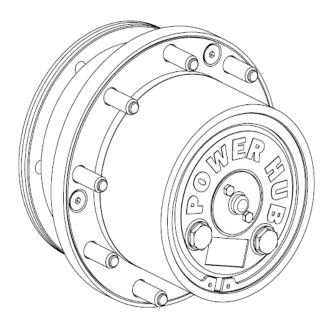
VB07 Wheel Drive Double Reduction —SAE Input

VB07	Wheel Drive	Doub	ole Reduction: SAE Input	
Max. Continuous torque ¹⁾	30,975	in-lbf	3,500 Nm	
Max. intermittent torque	61,950	in-lbf	7,000 Nm	
Max. input speed	5,000	RPM		
Approximate weight	100	lbs	45.5 kg	
Approximate oil capacity	23	floz	0.68 L	

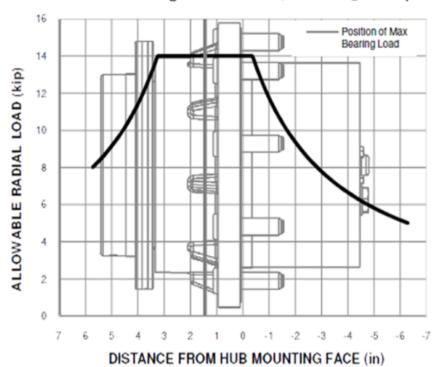
Feature Chart

			Feature Ch	art		
Feature		Descr	iption		Code	Sample
		18. 24.			19 25	
		35.			36	
GEAR RATIO		47.	60		48	VB0758
		57.	49		58	
		64.	08		64	
	Motor Pilot	Motor Mount	Spindle Pilot	Spindle Mount		
SAE INPUT ²⁾	SAE A-¢4.00"	2x M12X1.75 Ø5.75" B.C.	Ø7.00"	6x M16X2.0 Ø8.25" B.C.	B1	∨B0758 B1
SALINFOI	SAE A-¢4.00	4x 1/2"-13 UNC Ø5.75" B.C.	Ø7.00"	6x M16X2.0 Ø8.25" B.C.	B2	VB0/3081
MOTOR	Teeth		Pitch			
MOTOR COUPLING	15T		16/32		15	VB0758B113
COUPLING	13T		16/32		13	
HUB	Wheel Pilot Dia.	Flange Thk.	Bolt	Pattern		VB0758B113 H1
1100	7.885"	0.906"	9X Ø.681	on Ø9.5" B.C.	H1	VD0730D113111
	Size & F	Pitch	Stud Length ³⁾			
	No St	ud			NS	
STUDS	1/2"-20 U	NF-2A	2.23"(56.6)	2.43"(61.7)	AA / AJ	VB0758R113H1 EA
01000	9/16"-18U	NF-2A	2.23"(56.6)	2.43"(61.7)	BA / BJ	T DO TO STATE OF THE STATE OF T
	5/8"-11 UI		2.23"(56.6)	2.43"(61.7)	CA / CJ	
	M16X1.		2.23"(56.6)	2.43"(61.7)	EA / EJ	
	in-lb	of		Nm	Blank	
BRAKE RATING	1100		4	124	11	VB0758R113H1EA- 13
KATING	1300			147 181	13	
					16 22	
	2000 248				22	

Ontinuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.



VB07 Bearing Life Curve: 3,000 hrs @ 100 rpm



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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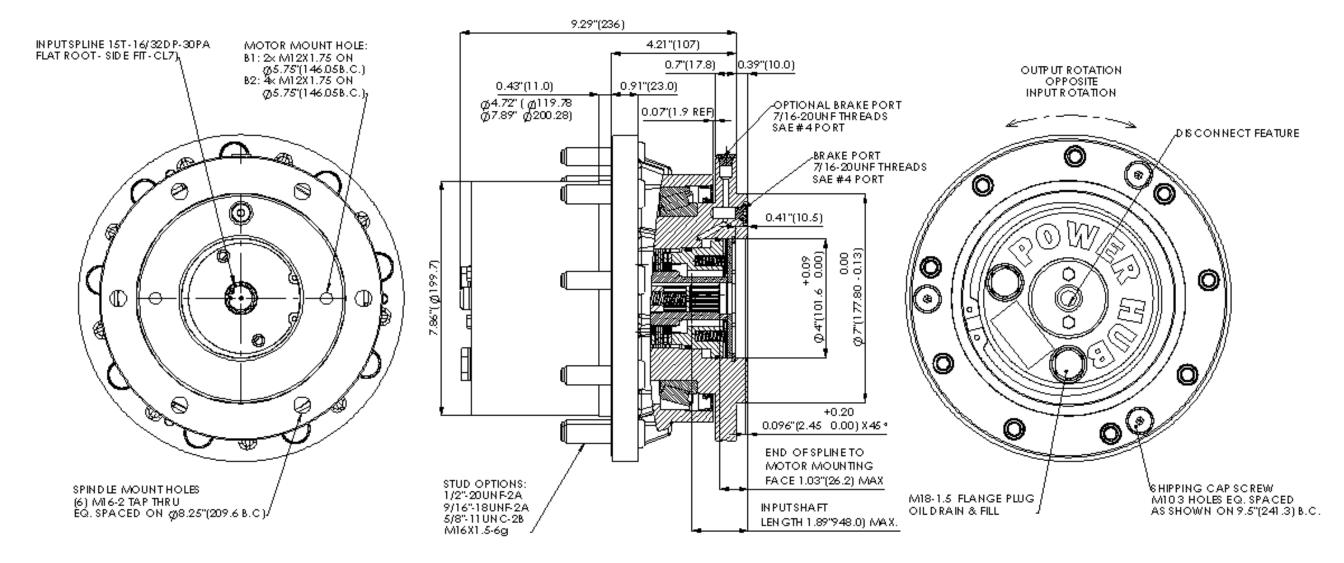
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²⁾ O-rings for motor/brake port interface not included

Length under stud head to end of thread equals usable stud length plus housing flange thickness



VB07 Wheel Drive Double Reduction —SAE Input



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VB09 Wheel Drive Double Reduction — Cartridge Input

VB09 Wheel Drive Double & Triple Reduction: Cartridge Input

39,825 in-lbf 4,500 Nm Max. Continuous torque¹⁾ 79,650 in-lbf 9,000 Nm Max. intermittent torque

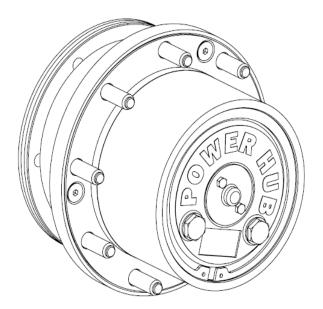
Max. input speed 5,000 RPM

Approximate weight 110lbs 50kg Approximate oil capacity 24fl oz 0.7L

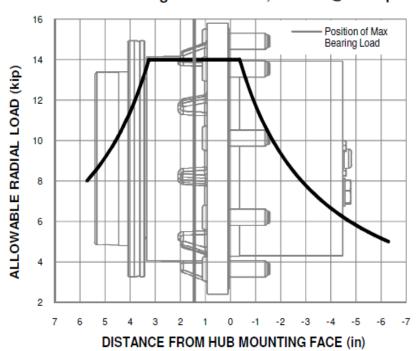
Foature Chart

Feature Chart Feature Description Code Sample							
Feature	Description					Sample	
GEAR RATIO		21.0 30.0 42.0 58.0 70.0 81.0 89.0 100. 113. 132.	22 30 43 58 70 82 90 100 114 132 159	VB09 70			
	Motor Pilot	Motor Mount	Spindle Pilot	Spindle Mount			
CARTRIDGE INPUT ²⁾	Ø5.31" Ø5.31" Ø5.31"	2X 7/16"-14UNC- 2B Ø6.10" B.C. 2X 7/16"-14UNC- 2B Ø6.22" B.C. 4X M12X1.5 Ø6.10" B.C.	Ø7.00" Ø7.00" Ø7.00"	6X 5/8-11UNC on Ø8.25" B.C 6X 5/8-11UNC on Ø8.25" B.C 6X M16X2.0 on Ø8.25" B.C.	R1 R2 R3	VB0970 R1	
MOTOR	Tee	eth	Pi	tch			
COUPLING	15			3/32 3/32	<u>13</u>	VB0970R1 15	
HUB	Wheel Pilot Dia.	Flange Thk.		Pattern		VB0970R115 H1	
	7.86"	0.906"		n Ø9.5" B.C.	H1		
STUDS	No: 1/2"-20 9/16"-18 5/8"-11	UNF-2A	1.32 [33.6] 1.32 [33.6] 1.32 [33.6] 1.32 [33.6]	ength ³⁾ 1,52 [38.7] 1,52 [38.7] 1,52 [38.7] 1,52 [38.7]	NS AA/AJ BA/BJ CA/ CJ EA/EJ	VB0970R115H1 CJ	
	in	-lbf	N	lm			
BRAKE RATING	13	- 00 00 00 00	 124 147 181 248		Blank 11 13 16 22	VB0970R115H1CJ-13	

Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.



VB09 Bearing Life Curve: 3,000 hrs @ 100 rpm



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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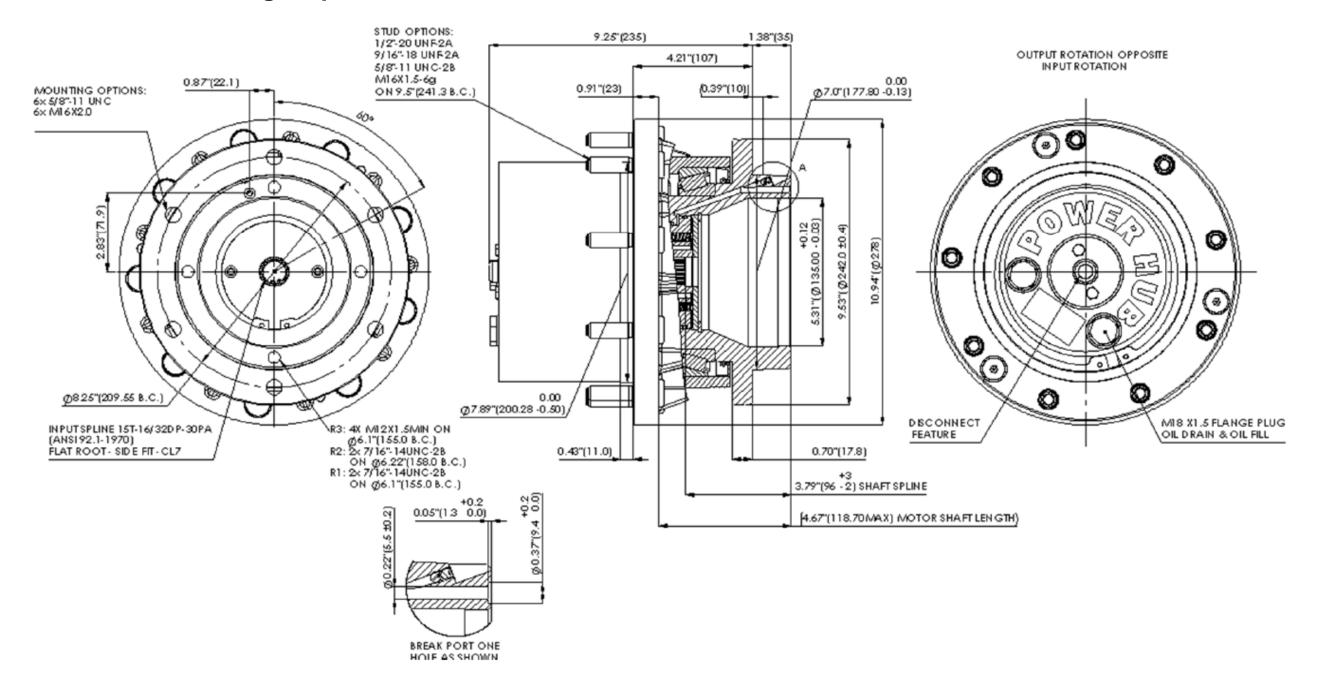
O-rings for motor/brake port interface not included

Usable length equals stud length less housing flange thickness ALL DIMENSIONS NOMINAL & SUBJECT TO CHANGE WITHOUT NOTICE



VB09 Wheel Drive Double Reduction

— Cartridge Input



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VB11 Wheel Drive Double & Triple Reduction

	VB11	Wheel Drive De	ouble & Triple F	Reduction: Cartrid	ge Input	
Max. Continuous to	rque ¹⁾	48,675		5,500		
Max. intermittent tor	que	97,350	lin-lbf	11,000	Nm	
Max. input speed		5,000	RPM			
Approximate weight		209	lbs	95	_	
Approximate oil cap	acity	40	flaz	1.5	L	
Facture		Dono	Feature Cha	art	Code	Sample
Feature			ription .88		Code	adilibia
			.97		15 18	
					21	
		25	.79		26	
		28	.40		28	
		31	.71		32	
		35	.92		36	
GEAR RATIO		40).84		41	VB1157
			7.60		48	
		57	.49		57	
		71	.52		72	
		73	73			
		85	86			
			0.05		100	
		122	122			
	Motor Pllot	Motor Mount	Spindle Pilot	Spindle Mount		
CARTRIDGE	Ø5.31"	2X 7/16"-14UNC Ø6.1" B.C.	Ø8*	8X5/8*-11UNC Ø9.5* B.C.	R1	VB1157 R2
INPUT ²⁾	Ø5.31"	2X M12X1.75 Ø6.299" B.C.	Ø8*	12XM16X2 Ø9.5* B.C.	R2	VBITOTAL
	Ø5.31"	2X1/2"-13 Ø6.299" B.C.	Ø9.45*	18X5/8"-11UNC Ø10.83" B.C.	R3	
MOTOR	Tee			Pitch		
COUPLING	15			16/32	15	VB1157R215
	13			16/32	13	
	Wheel Pilot Dia.	Flange Thk.		Pattern on Ø13.187" B.C.	H2	
HUB	11.02*	0.96"			H3 H4	VB1157R215H3
	9.45"	0.7*	9X Ø.683 or	n Ø13.187" B.C. n Ø11.125" B.C.	HJ	
	Size &			Length ³⁾		
	No S	Stud			NS	
STUDS	1.4000	V I E	2.0	OPIZA 91	EV	VB1157R215H3 DL
	5/8"-18	3 UNF	2.4	1"(61.1)	CJ	
	3/4-16	UNC	2.5	3"[64.3]	DL	
	In-			Nm	Disert	
					Blank	
	100	ALC:	1	113	10	
BRAKE RATING	4.67				45	VB1157R215H3DL-25
BRAKE RATING	150	00		170 226	15	VB1157R215H3DL-25

Seal Type Seal Boot

Face Seal

2pcs Lip (Standard)

2pcs Lip Seal and Seal Boot

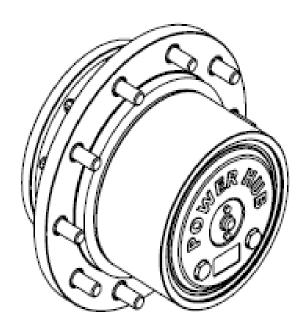
282

25

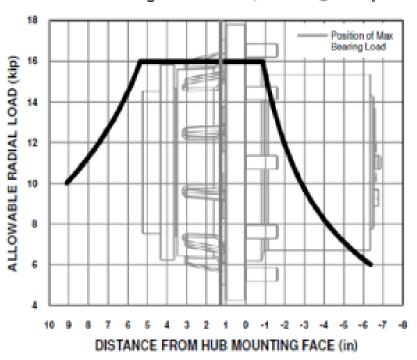
VB1157R215H3DL-25L

SEALS

2500



VB11 Bearing Life Curve: 3,000 hrs @ 100 rpm



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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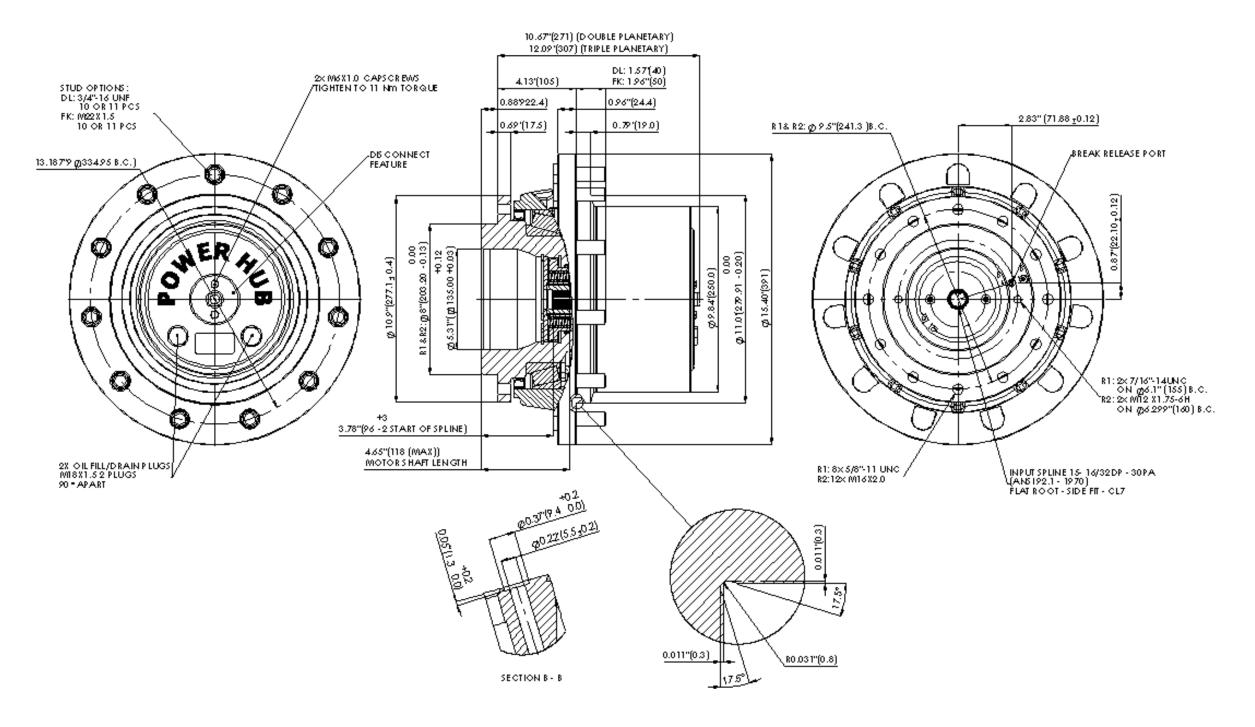
Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.

O-rings for motor/brake port interface not included

Length under stud head to end of thread equals usable stud length plus housing flange thickness



VB11 Wheel Drive Double & Triple Reduction



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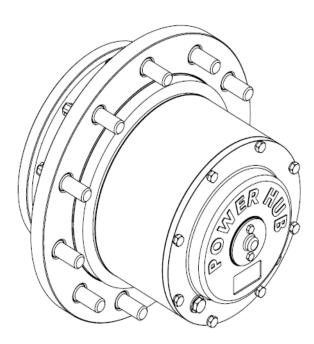


VB13 Wheel Drive Double & Triple Reduction

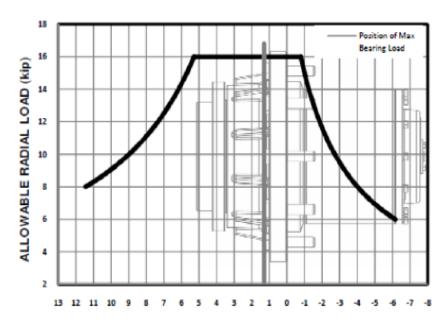
VB13 Wheel Drive Double & Triple Reduction: Cartridge Input							
Max. Continuous torque ⁴	58,500	in-lbf	6,600 Nm				
Max. intermittent torque	117,000	in-lbf	13,000 Nm				
Max. input speed	5,000	RPM					
Approximate weight	220	lbs	100 kg				
Approximate oil capacity	68	floz	2 L				

Approximate	oil canacitu	69	floz	2	L	
прргошпасс	он очрчону	00	Feature C			
Feature	ı	Descr	ription	, iidi t	Code	Sample
GEAR RATIO		18. 27. 30. 35. 42. 69. 76. 86. 100. 110.	83 .70 .27 .33 .72 .34 .80 .74 .66 .06		19 28 30 35 43 69 77 87 101 110	Sample VB13 87
CARTRIR	N. Dil.		.88	10 . 11 11	138	
CARTRID GE INPUT ²⁾	Motor Pilot Ø5.31"	2X M12X1.75 Ø6.299" B.C.	Øpindle Pilo Ø8"	(Spindle Moun) 12XM16X2 Ø9.5"B.C.	R2	VB1387 R2
MOTOR	Tee		F	Pitch		
COUPLIN	15			16/32		VB1387R2 15
G	13	 3T	16/32		13	
HUB	√heel Pilot Dia 11.02" 11.02"	Flange Thk. 0.96" 0.96"	10X Ø.944 d	Pattern on Ø13.187" B.C. on Ø13.187" B.C.	H3 H4	VB1387R215 H4
	Size &			Length ³⁾	114	
STUDS	No S M22	itud	2.9	 3"[74.3] 3"[64.3]	NS FK DL	VB1387R215H4 DL
BRAKE RATING	in- - 100 150 22 25	- 00 00 00	Nm 113 170 248 282		Blank 10 15 22 25	VB1387R215H4DL- 22
SEALS	2500 282 Seal Type Seal Boot Face Seal 2pos Lip (Standard) 2pos Lip Seal and Seal Boot		В F L Z	VB1387R215H4DL-22L		
	zpos cip pearand pearbook					

 $^{^{10}}$ Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.



VB13 Bearing Life Curve: 3,000 hrs @ 100 rpm



DISTANCE FROM HUB MOUNTING FACE (in)

Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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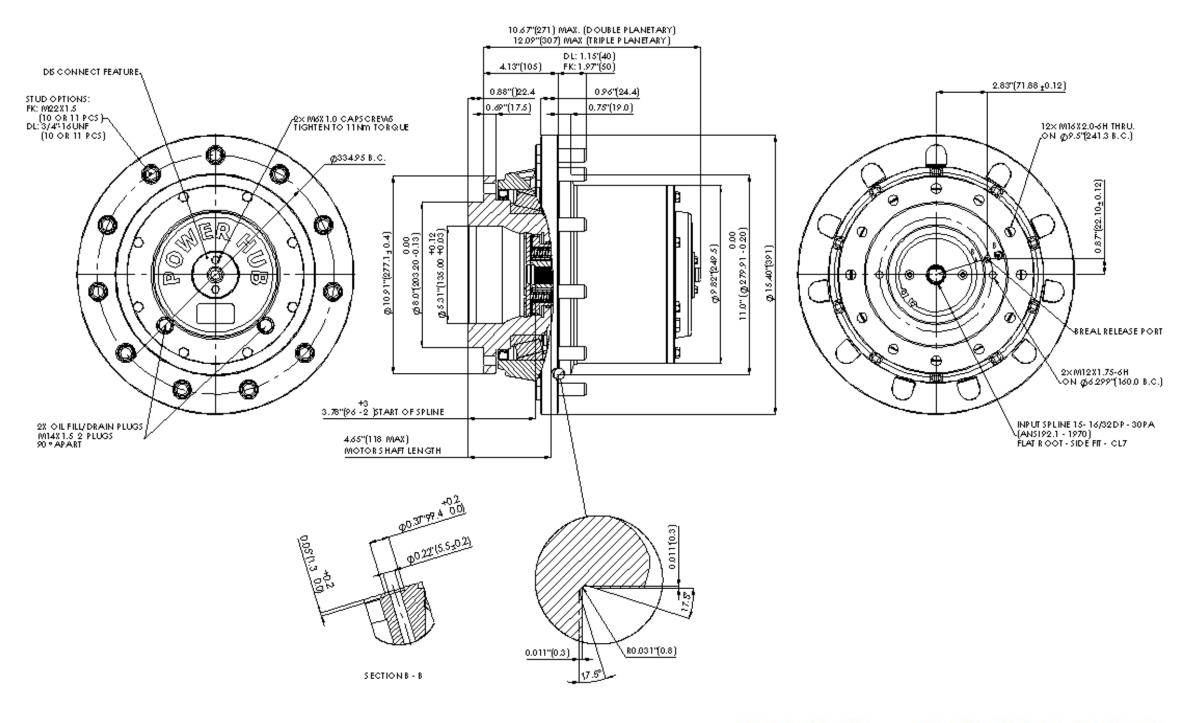
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²⁾ O-rings for motor/brake port interface not included

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange thickness



VB13 Wheel Drive Double & Triple Reduction



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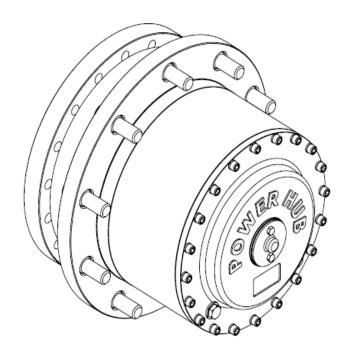


VB18 Wheel Drive Double & Triple Reduction

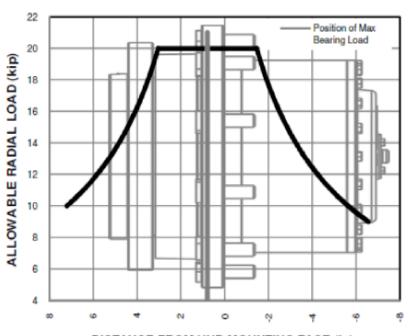
VB18 Wheel Drive Double & Triple Reduction: Cartridge Input							
Max. Continuous torque ¹	79,650 in-lbf	9,000 Nm					
Max. intermittent torque	159,300 in-lbf	18,000 Nm					
Max. input speed	5,000 RPM						
Approximate weight	264 lbs	120 kg					
Approximate oil capacity	78 floz	2.3 L					
	F OI	-					

Approximate oi	i capacity	78	floz	2.3	: L	
			Feature Ch	art		
Feature			ription		Code	Sample
GEAR RATIO	27.00 32.68 55.54 62.08 69.76 76.41 85.05 96.75 113.46 123.09 139.28				27 33 56 62 70 76 85 97 113 123	VB18 113
<u> </u>	Motor Pilot			t Spindle Mount	162	
CARTRIDG E INPUT ²⁾	Ø5.31"	2X 1/2"-13UNC Ø6.299" B.C.	Ø10.63"	18X M16X2 Ø11.81" B.C.	C1	VB18113 C1
	Teeth		F	itch		
MOTOR COUPLING	15T		-	16/32	15	VB18113C1 15
COOPLING	13	3T	7	16/32	13	
	√heel Pilot Dia	Flange Thk.	Bolt	Pattern		UD40440C4FLI4
HUB	11.02"	1.02"	10X Ø.944 on Ø13.187" B.C.		H1	VB18113C115 H1
	Size 8	Pitch	Stud	Length ³⁾		
STUDS	M22 3/4-1	Stud X1.5 6 UNC	2.93"[74.3] 2.53"[64.3]		NS FK DL	VB18113C115H1 DL
	in-	·lbf		Nm	Blank	
BRAKE RATING	10 15 20	 00 00 00 00		 113 170 226 282		VB18113C115H1DL- 25
		Seal	Туре			
SEALS		Seal Face 2pcs Lip (Boot Seal Standard) and Seal Boot		В F L	VB18113C115H1DL-25L

¹⁾ Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.



VB18 Bearing Life Curve: 3,000 hrs @ 100 rpm



DISTANCE FROM HUB MOUNTING FACE (in)

Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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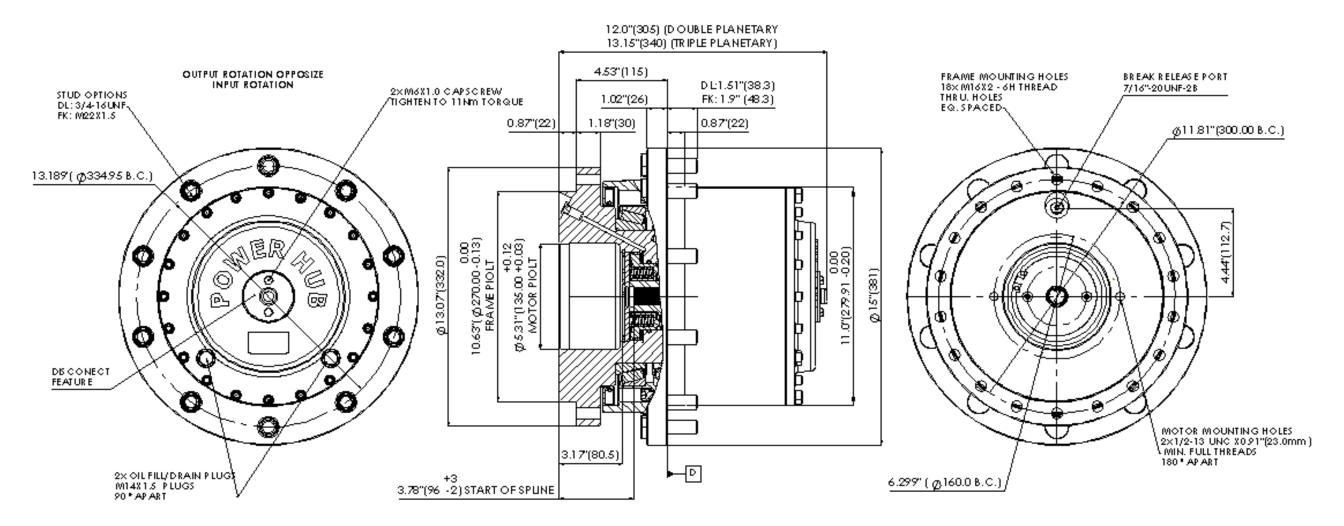
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²⁾ O-rings for motor/brake port interface not included.

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange thickness



VB18 Wheel Drive Double & Triple Reduction



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Appendix: Application Instruction

To adjust life for loads and speeds other than shown on the curve

R = Allowable resultant load for a given location from the mounting flange R' = Anticipated load at location from mounting flange SF = Speed factor from table

		1		
Speed		Bearing Life		
Output	Speed		Life F	actor
(RPM)	SF		(LF)	Hours
5	2.456		0.584	500
10	1.944		0.719	1000
20	1.620		0.812	1500
30	1.435		0.886	2000
40	1.316		0.947	2500
50	1.231		1.000	3000
60	1.165		1.047	3500
70	1.113		1.090	4000
80	1.069		1.130	4500
90	1.032		1.116	5000
100	1.000		1.231	6000
200	0.812		1.289	7000
300	0.719		1.342	8000
400	0.659		1.390	9000
500	0.617		1.435	10000

- 1) Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.
- 2) O-rings for motor/brake port interface not included
- 3) Length under stud head to end of thread equals usable stud length plus housing flange thickness

CAUTION: The same torsional load parameters used in calculating the driving mode must be used in the braking mode!

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