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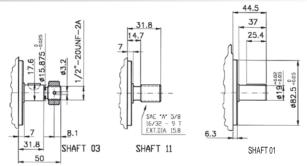


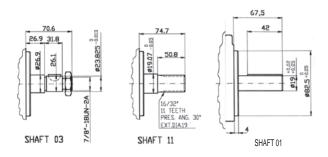
Performance Data

Cartridge model		Geometric displacement	Rated capacity at 1500 rpm & 7 bar	Max. pressure with mineral oil (BV)	Max. pressure with mineral oil (BQ/TV/TQ)		Maximum operating speed		
Industrial	Mobile	cc/rev	l/min	bar	bar	(ALL)	(BV / TV)	(BQ/HQ/TQ)	
V01-02	A01-02	7,2	10,4	210	210	600	1800	2700	
V01-05	A01-05	18,0	26,1	210	210	600	1800	2700	
V01-08	A01-08	27,4	39,4	210	210	600	1800	2700	
V01-09	A01-09	30,1	44,1	210	210	600	1800	2700	
V01-11	A01-11	36,4	52,6	210	210	600	1800	2700	
V01-12	A01-12	39,5	58,7	160	160	600	1800	2700	
V01-14	A01-14	45,9	69,6	140	140	600	1800	2700	
V02-12	A02-12	40,1	58,8	175	210	600	1800	2700	
V02-14	A02-14	45,4	65,7	175	210	600	1800	2700	
V02-17	A02-17	55,2	80,2	175	210	600	1800	2500	
V02-19	A02-19	60,0	88,7	175	210	600	1800	2500	
V02-21	A02-21	67,5	99,8	175	210	600	1800	2500	
	A03-24	78,3	115,3	-	210	600	-	2500	
	A03-28	91,2	131,8	-	210	600	-	2500	
V04-21	A04-21	69,0	101,4	175	210	600	1800	2500	
V04-25	A04-25	81,6	120,1	175	210	600	1800	2500	
V04-30	A04-30	97,7	141,2	175	210	600	1800	2500	
V04-35	A04-35	112,7	167,2	175	210	600	1800	2400	
V04-38	A04-38	121,6	177,3	175	210	600	1800	2400	
V05-42	A05-42	138,6	203,4	175	175	600	1800	-	
V05-47	A05-47	153,5	222,7	175	175	600	1800	-	
V05-50	A05-50	162,2	234	175	175	600	1800	-	
V05-57	A05-57	183,4	267	175	175	600	1800	-	
V05-60	V05-60 A05-60 193,4 285		285	175	175	600	1800	-	



B1 & B2 Series Shaft Dimensions





Pump Type	Geometric	Rated capacity	Maximum	Max	ximum Press	sure	Speed Ra	nge (rpm)	Minimum	Maximum	
	displacement	at 1500 rpm & 7 Bar	pressure with mineral oil	Synthetic Fluid	Water - Water-in-oil Glycol emulsion			uid, Water - in-oil emulsion		Operating Speed	
	cc/rev	l/min	bar	bar	bar	bar	min.	max.	(Mineral Oil)	(Mineral Oil)	
B1G10	3.29	4.70	175	- 140		105			650	4800	
B1G15	5.50	7.86	175						650	4800	
B1G20	6.53	9.40	175				650	4000	650	4500	
B1G30	9.82	14.20	175		400				650	4000	
B1G40	13.10	18.90	175		126			1800	650	3400	
B1G50	16.39	23.60	175						650	3200	
B1G60	19.50	28.40	150						650	3000	
B1G70	22.80	33.10	140						650	2800	
B2G06	10.50	20.20	175						450	3000	
	19.50	28.39	-								
B2G07	22.78	33.11	175	140	125	110	600	1800	450	3000	
B2G08	26.55	37.85	175						450	3000	
B2G09	29.66	42.57	175	140	125	110	600	1800	450	2800	
B2G11	36.38	52.04	175			95			450	2800	
B2G12	39.00	56.77	150	125	110		600	1500	450	2500	
B2G13	42.44	61.50	140						450	250	





BV Series Vane Pump

The BV series is available in four versions of single pump (from 10 to 285 l/min at 1500 rpm) and six versions of double pump (from 68 to 462 l/min at 1500 rpm), with maximum powers of over 225 kW. The BV series pumps are extremely compact and are supplied with ISO norm mechanical couplings and SAE norm hydraulic fittings. This makes them very easy to install and guarantees their interchangeability with other similar pumps.



BQ Series Vane Pump

The BQ series is available in five versions of single pump (from 10 to 285 l/min at 1500 rpm) and seven versions of double pump (from 68 to 462 l/min at 1500 rpm), with maximum powers of over 225 kW. The BQ series pumps are extremely compact and are supplied with ISO norm mechanical couplings and SAE norm hydraulic fittings for easy installation and guarantees their interchangeability with other similar pumps.



TQ & TV Series Vane Pump

Thru-drive pumps save installation space and cost by eliminating double shaft extension electric motors or by reducing the number of motors and drive couplings.

Furthermore thru-drive models provide valuable circuit design flexibility, such as having the vane pump coupled with other types of pumps, both fixed and variable displacement, on a single input drive.

The B&C thru-drive pumps are available in TQ and TV versions. The ten vane TQ type is particularly suitable for applications subject to sudden peaks of pressure, while the twelve vane TV model is specifically designed to meet very low noise requirements.



HQ Series Vane Pump

The HQ series is available in 2 versions of single pump (from 58 to 132 l/min at 1500 rpm) and two versions of double pump (from 69 to 200 l/min at 1500 rpm) with maximum powers of over 103 kW.

The pumps are extremely compact and are supplied with different types of either ISO or UNI norm mounting for the direct coupling with PTO and SAE norm hydraulic fittings. That, together with the possibility to orientate the inlet and outlet ports, makes the HQ pumps very easy to install and guarantees their interchangeability with other types of pumps.



B1 & B2 Series Vane Pump

B1 and B2 pumps combine versatility, reliability, high long-term volumetric efficiency and low noise, with low running costs to offer a valid alternative to other types of pump for both industrial and mobile use, particularly where noise level must be kept low. B1 pumps are available in eight different versions (from 5 to 33 l/min at 1500 rpm), with maximum power of up to 18 kW; B2 pumps are available in seven different versions (from 28 to 62 l/min at 1500 rpm) with maximum power of up to 27 kW. Both are supplied with different mechanical and hydraulic connections, for extremely simple installation and complete interchangeability with other types of pump.







Cartridge to Pump Options

	Pump	Ref:-			Tandem Pump Ref:-													
Cartridge				Cartridge	BV21 BV41		BV42 BV51 BV52 BV54											
Part No.	BV	TV		Part No.		Cover	Shaft	Cover	Shaft Cover Shaft						Cover			
					End	End	End	End	End	End	End	end	End	End	End	End		
V01-02	BV01.G.02			V01-02		*	(*			/	*						
V01-05	BV01.G.05			V01-05		*		*				*						
V01-08	BV01.G.08			V01-08)	*)	*				*						
V01-09	BV01.G.09			V01-09		*		*				*						
V01-11 V01-12	BV01.G.11 BV01.G.12			V01-11 V01-12		*		*				*						
V01-12 V01-14	BV01.G.12 BV01.G.14			V01-12	\	*		*				*						
70111	DV01.0.14			VOI 14														
V02-12	BV02.G.12	TV02.*.12		V02-12	*				(*			(*				
V02-14	BV02.G.14	TV02.*.14		V02-14	*					*				*				
V02-17	BV02.G.17	TV02.*.17		V02-17	*					*				*				
V02-19	BV02.G.19	TV02.*.19		V02-19	*					*				*				
V02-21	BV02.G.21	TV.02.*.21		V02-21	, and the second	/												
V04-21	BV04.G.21	TV04.*.21		V04-21			*		*						(*		
V04-25	BV04.G.25	TV04.*.25		V04-25			*		*							*		
V04-30	BV04.G.30	TV04.*.30		V04-30			*	 	*							*		
V04-35	BV04.G.35	TV04.*.35		V04-35			*		*							*		
V04-38	BV04.G.38	TV04.*.38		V04-38			*	/	*	/						*		
V05-42	BV05.G.42	TV05.*.42		V05-42							*		*		*			
V05-47	BV05.G.47	TV05.*.47		V05-47							*		*		*			
V05-50	BV05.G.50	TV05.*.50		V05-50							*		*		*			
V05-57	BV05.G.57	TV05.*.57		V05-57							*	1	*		*			
V05-60	BV05.G.60	TV05.*.60		V05-60							*		*		*)		
		Pump Ref:-								Tar	ndem F	ump Re	ef:-					
Cartridge				Cartridge	BO21	Q21 / HQ21 BQ31 / HQ31 BQ41 BQ51 BQ42 BQ					ВС	152	ВС)54				
Part No.	BQ	HQ	TQ	Part No.		Cover	Shaft			Cover		Cover		Cover	Shaft		Shaft	
					End	End	End	End	End	End	End	End	End	End	End	End	End	End
A01-02	BQ01.G.02			A01-02	/	*	(*	(*	/	*						
A01-05	BQ01.G.05			A01-05		*		*		*		*						
A01-08	BQ01.G.08			A01-08)	*)	*)	*		*						
A01-09	BQ01.G.09			A01-09		*		*		*		*						
A01-11 A01-12	BQ01.G.11 BQ01.G.12			A01-11		*		*		*		*						
A01-12 A01-14	BQ01.G.12 BQ01.G.14			A01-12 A01-14	\	*		*		*	\	*						
7.31 17	201.0.14			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
A02-12	BQ02.G.12	HQ02.*.12	TQ02.*.12	A02-12	*								(*	(*		
A02-14	BQ02.G.14			A02-14	*									*		*		
A02-17	BQ02.G.17	HQ02.*.17		A02-17	*	}								*		*		
A02-19	BQ02.G.19	HQ02.*.19		A02-19	*									*		*		
A02-21	BQ02.G.21	HQ02.*.21	TQ02.*.21	A02-21	*	<u>/</u>								*		*		
A03-24	BQ03.G.24	HQ03.G.24		A03-24			*											
A03-28	BQ03.G.28	HQ03.G.28		A03-28			*	}										
A04-21	BQ04.G.21		TQ04.*.21	A04-21					*)			*					*
A04-25	BQ04.G.25		TQ04.*.25	A04-25					*				*					*
A04-30	BQ04.G.30		TQ04.*.30	A04-30					*				*					*
A04-35	BQ04.G35		TQ04.*.35	A04-35					*				*					*
A04-38	BQ04.G.38		TQ04.*.38	A04-38					*	<u> </u>			*	<u> </u>				
A05-42	BQ05.G.42		TQ05.*.42	A05-42							*				*		*	
A05-47	BQ05.G.47		TQ05.*.47	A05-47							*				*		*	
A05-50	BQ05.G.50		TQ05.*.50	A05-50							*				*		*	\
A05-57	BQ05.G.57		TQ05.*.57	A05-57							*				*		*	
A05-60	BQ05.G.60		TQ05.*.60	A05-60							*	U			*)	*	IJ

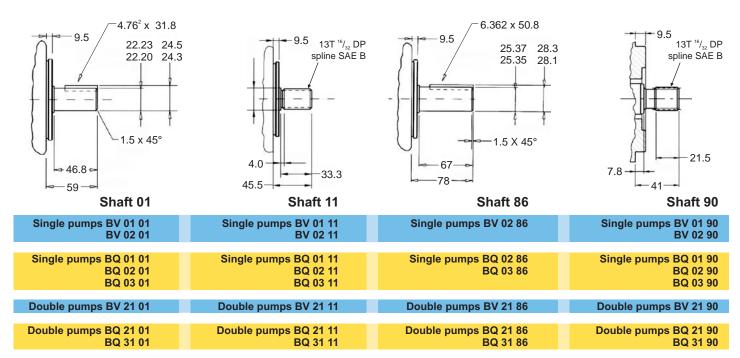




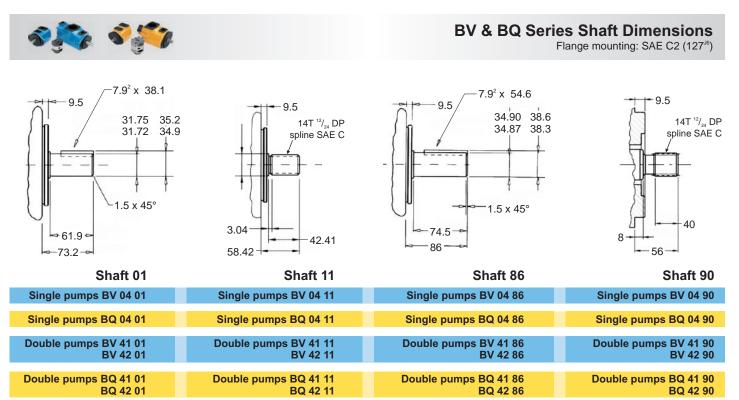


BV & BQ Series Shaft Dimensions

Flange mounting: SAE B2 (101.6^{J6})



For further information please contact jbj Techniques Ltd technical office, telephone: 01737 767493 or email: info@jbj.co.uk



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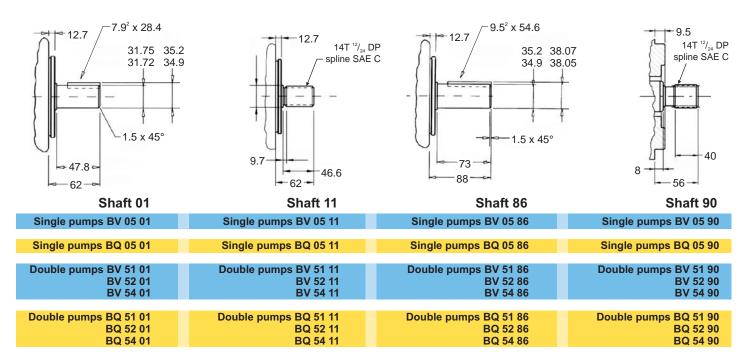






BV & BQ Series Shaft Dimensions

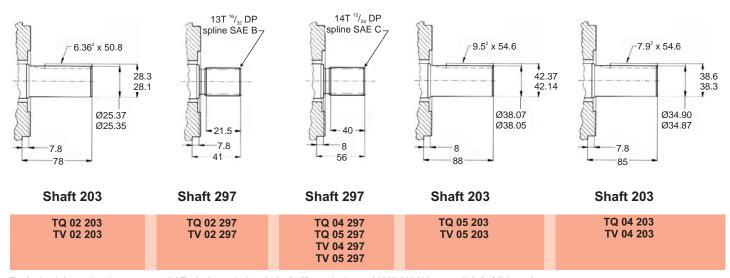
Flange mounting: SAE C2 (127^{J6})



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TQ/TV Series Shaft Dimensions

Flange mounting: SAE B2 (101.6^{J6})



For further information please contact jbj Techniques Ltd technical office, telephone: 01737 767493 or email: info@jbj.co.uk

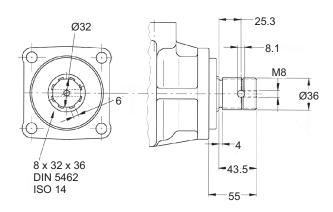






HQ Series Shaft Dimensions

Flange mounting: ISO 4146 (80^{J6})



HQ 02 50 & HQ 03 50 & HG 21 50 & HG 31 50

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Versatility, power, compactness and low running costs are the main characteristics of the latest pump product release available from jbj Techniques Limited. All components subject to wear are contained within a replaceable cartridge which allows inspection and maintenance without disconnecting the pump from the circuit, thereby drastically reducing system down time.

The cartridge consists of a rotor, vanes and inserts, a cam ring, two flexible plates and two covers. During operation the rotor is driven via a splined shaft coupled to the drive ring. As the rotational speed increases, centrifugal forces, combined with the pressure generated behind the vanes, extend the vanes outwards where they follow the profile of the cam ring with sufficient contact pressure to ensure adequate hydraulic sealing. The two opposed pumping chambers, formed by the elliptical profile of the cam, cancel out radial loads on the shaft bearings, thus giving extremely long working life.

The vane pumps are designed to meet the requirements of the most varied industrial and mobile applications. In fact, as well as their proven high reliability and excellent volumetric efficiency in all working conditions, they operate with particularly low noise levels. This is made possible by the special profile of the cam ring and the use of a 12 vane rotor that reduces the amplitude of the supply pressure pulses, thereby reducing induced vibration.

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ibi Techniques Ltd provide a diverse range of mechanical drive & transmission solutions to industrial markets including design engineering, product supply and after sales service.

An experienced and dedicated team of technical sales engineers are on hand to work with customers and deliver results.

The markets where jbj operate are tough and time sensitive. In such circumstances customers need reliable solution partners, people who are conscious of deadlines, innovative in design and always willing to seek the best solution for the customers' needs.

On all counts, jbj Techniques Limited deliver. From specification, through technical advice, manufacture and support, together with our extensive product database, jbj Techniques provide a comprehensive and valued service to the power transmission and hydraulic industries.





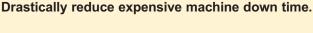






Vane pumps provide versatility, power, compactness and low running costs.





All the components subject to wear within these vane pumps are contained in a cartridge unit that can be easily removed for inspection and/or replacement without disconnecting the pump from the circuit, drastically reducing expensive machine down time.

The cartridge contains a rotor, vanes and inserts, a cam ring, two flexible plates and two covers. During operation the rotor is driven by a splined shaft coupled to the drive unit. As the rotation speed increases, centrifugal forces, in combination with the pressure generated behind the vanes, push the vanes outwards, where they follow the profile of the cam with a sufficient contact pressure to ensure adequate hydraulic sealing. The two opposed pumping chambers formed by the elliptical profile of the cam cancel out radial loads on the shaft bearings, thereby giving them extremely long lifetimes.

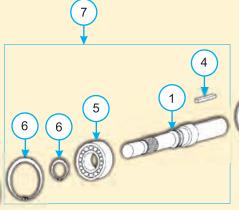
The design characteristics of these vane pumps make them particularly suited to applications in the mobile field. The special design of the flexible plates enables any thermal expansion in the rotor to be compensated for and to adequately cope with any sudden change in pressure. Furthermore, the counter-pressure chambers positioned between the flexible plates and the cartridge covers balance the internal pressure; this ensures that the correct clearance between the rotor and the flexible plates is always maintained so guaranteeing maximum volumetric efficiency.

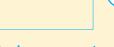
The versatility of these vane pumps enables them to meet the requirements of the most varied industrial applications. In fact, as well as their proven high reliability and excellent volumetric efficiency in all working conditions, they operate with particularly low noise levels. This is made possible by the special profile of the cam ring and the use of a 12 vane rotor that reduces the amplitude of the supply pressure pulses, thereby reducing induced vibrations.

These vane pumps are extremely compact and are supplied with ISO norm mechanical couplings and SAE norm hydraulic fittings. This makes them very easy to install and guarantees their interchangeability with other similar pumps (eg. Vickers, Caterpillar, Denison).

More detailed technical information is available in the catalogues of the standard B & C range of vane pumps available from jbj Techniques Limited.







Basic pump parts

- Shaft
- Shaft Seal
- Body
- Key
- Bearing
- Circlip
- Shaft Kit
- 8 Cartridge
- 9 Cover
- 10 Screw

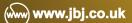
















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BDS Clutches



Planetary Gearhoyes



Splitter Gearbox



Coolers



Oil Both Clutches



LOUIT Made and Constant Made and



Rellhousings



Torsional Coupling



Torsionally Flexible Couplings



Torsionally Rigid Couplings



Anti-static/Flameproof Coupling



Tyre Couplings



Permanent Magnetic Coupling



Torque Limiting Couplings



Hydraulic Adaptors



Engine Adentor Kite



Dampers



Pressure Intensifie



Flow Dividers



Tanks/Accessories



Fluid Level Indicators



Flanges



Range of ATEX certificated









quality products for mechanical & fluid power









