

ORDERING CODE - S6DC SERIES

Series _____ **S6DC** **W** - **B45** - **B17** **1** **R** **00** - **S** **1** **00**

severe duty shaft only P1 P2

Cam ring for "P1" _____

Volumetric displacement cm³/rev (in³/rev)

B14 = 47.6 (2.90) B35 = 111.0 (6.77)
 B17 = 58.2 (3.55) B38 = 120.3 (7.34)
 B20 = 66.0 (4.03) B42 = 136.0 (8.30)
 B24 = 79.5 (4.85) B45 = 145.7 (8.89)
 B28 = 89.7 (5.47) B50 = 158.0 (9.64)
 B31 = 98.3 (6.00) B61 = 190.5 (11.62)

Cam ring for "P2" _____

Volumetric displacement cm³/rev (in³/rev)

B03 = 10.8 (0.66) B15 = 50.5 (3.08)
 B05 = 17.2 (1.05) B17 = 58.3 (3.56)
 B06 = 21.3 (1.30) B20 = 63.8 (3.89)
 B08 = 26.4 (1.61) B22 = 70.3 (4.29)
 B10 = 34.1 (2.08) B25 = 79.3 (4.84)
 B12 = 37.1 (2.26) B28 = 88.8 (5.42)
 B14 = 46.0 (2.81) B31 = 100.0 (6.10)

Mounting W/connection variables

	UNC		METRIC	
	00	01	M0	M1
P2	1"	3/4"	1"	3/4"

Seal class

1 - S1 (for mineral oil)
 4 - S4 (for fire resistant fluids)
 5 - S5 (for mineral oil and fire resistant fluids)

Design letter

Porting combination

00 - standard

Direction of rotation (view on shaft end)

R - clockwise
 L - counter-clockwise

Type of shaft

1 - keyed (SAE C) 4 - splined (no SAE)
 2 - keyed (no SAE) **Severe duty (S6DCW only)**
 3 - splined (SAE C) 5 - keyed (no SAE)

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (Input power p (KW) for one cartridge only)

Pressure port	Series	Volumetric Displacement V _p		Flow q & n = 1500 rpm					Input power p & n = 1500 rpm						
		in ³ /rev	cm ³ /rev	p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
				gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
P1	B14	2.90	47.6	18.88	71.4	16.42	62.1	14.78	55.9	3.08	2.3	24.81	18.5	41.03	30.6
	B17	3.55	58.2	23.1	87.3	20.6	78.0	18.99	71.8	3.35	2.5	29.77	22.2	49.62	37.0
	B20	4.00	66.0	26.19	99.0	23.73	89.7	22.08	83.5	3.75	2.8	33.39	24.9	55.92	41.7
	B24	4.80	79.5	31.56	119.3	29.10	110.0	27.46	103.8	4.02	3.0	39.69	29.6	66.78	49.8
	B28	5.50	89.7	35.58	134.5	33.12	125.2	31.48	119.0	4.29	3.2	44.52	33.2	74.96	55.9
	B31	6.00	98.3	39.00	147.5	36.53	138.1	34.89	131.9	4.42	3.3	48.54	36.2	81.80	61.0
	B35	6.80	111.0	44.04	166.5	41.58	157.2	39.94	151.0	4.69	3.5	54.58	40.7	92.13	68.7
	B38	7.30	120.3	47.72	180.4	45.26	171.1	43.62	164.9	4.96	3.7	58.87	43.9	99.64	74.3
	B42 ¹⁾	8.30	136.0	53.96	204.0	51.50	194.7	49.86	188.5	5.36	4.0	66.25	49.4	112.24	83.7
	B45 ¹⁾	8.89	145.7	57.80	218.5	55.34	209.2	53.70	203.0	5.50	4.1	70.81	52.8	120.02	89.5
	B50 ¹⁾	9.64	158.0	62.69	237.0	60.23	227.7	59.25 ²⁾	224.0 ²⁾	5.90	4.4	76.44	57.0	113.98 ²⁾	85.0 ²⁾
B61 ¹⁾	11.62	190.5	76.25	285.7	73.54 ³⁾	278.0 ³⁾	--	--	6.16	4.6	81.26 ³⁾	60.6 ³⁾	--	--	
P2	B03	0.66	10.8	4.29	16.2	2.96	11.2	2.04	7.7	1.74	1.3	7.11	5.3	11.22	8.4
	B05	1.05	17.2	6.83	25.8	5.50	20.8	4.57	17.3	1.88	1.4	10.06	7.5	16.36	12.2
	B06	1.30	21.3	8.44	31.9	7.11	26.9	6.19	23.4	2.01	1.5	11.94	8.9	19.71	14.7
	B08	1.61	26.4	10.48	39.6	9.15	34.6	8.22	31.1	2.15	1.6	14.35	10.7	22.93	17.7
	B10	2.08	34.1	13.52	51.1	12.19	46.1	11.26	42.6	2.28	1.7	18.64	13.4	29.90	22.3
	B12	2.26	37.1	14.71	55.6	13.36	50.6	12.46	47.1	2.28	1.7	19.31	14.4	32.32	24.1
	B14	2.81	46.0	18.25	69.0	16.93	64.0	16.00	60.5	2.55	1.9	23.60	17.6	39.56	29.5
	B15	3.08	50.5	20.00	75.6	18.73	73.2	19.02	67.5	2.68	2.0	25.61	19.1	42.91	32.0
	B17	3.56	58.3	23.12	87.4	21.79	82.4	20.87	78.9	2.82	2.1	29.37	21.9	49.48	36.9
	B20	3.89	63.8	25.32	95.7	23.99	90.7	23.07	87.2	2.95	2.2	31.92	23.8	53.91	40.2
	B22	4.29	70.3	27.88	105.4	26.56	100.4	25.63	96.9	3.08	2.3	35.00	26.1	59.14	44.1
	B25	4.84	79.3	31.46	118.9	30.13	113.9	29.21	110.4	3.35	2.5	39.16	29.2	66.38	49.5
	B28	5.42	88.8	35.24	133.2	33.92	128.2	33.28 ²⁾	125.8 ²⁾	3.75	2.8	43.85	32.7	65.04 ²⁾	48.5 ²⁾
B31	6.10	100.0	39.68	150.0	38.35	145.0	37.72 ²⁾	142.6 ²⁾	3.75	2.8	48.95	36.5	72.95 ²⁾	54.4 ²⁾	

(1) B42-B45-B50-B61 = 2200 RPM max.

(2) B28-B31-B50 = 210 bar (3000 psi) max.

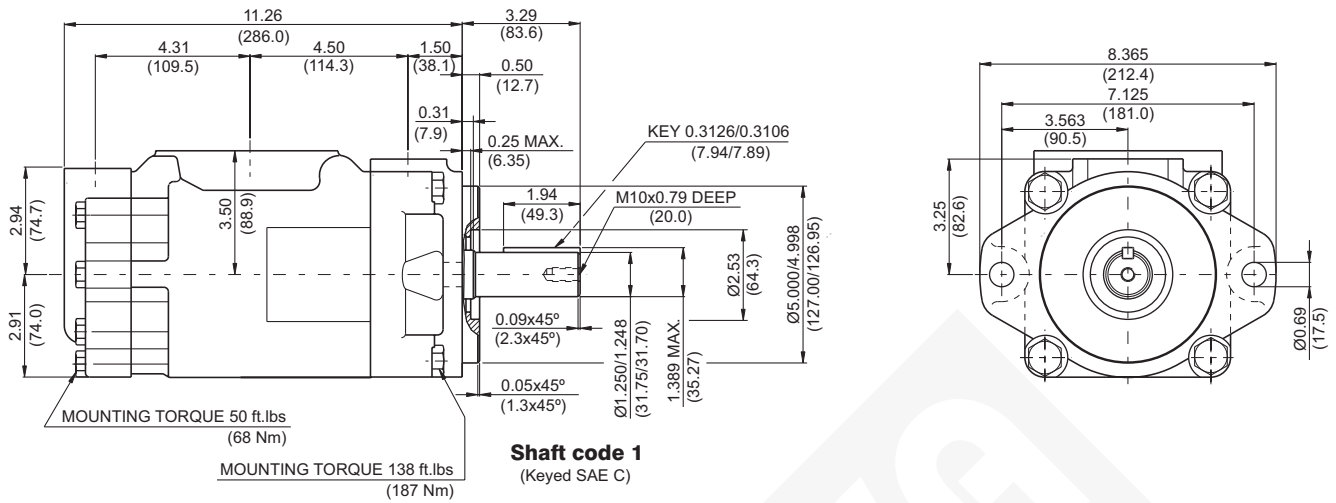
(3) B61 = 120 bar (1740 psi) max. int, B61 = 80 bar (1160 psi) cont.

* B03-B22 Peak Pressure 300 bar

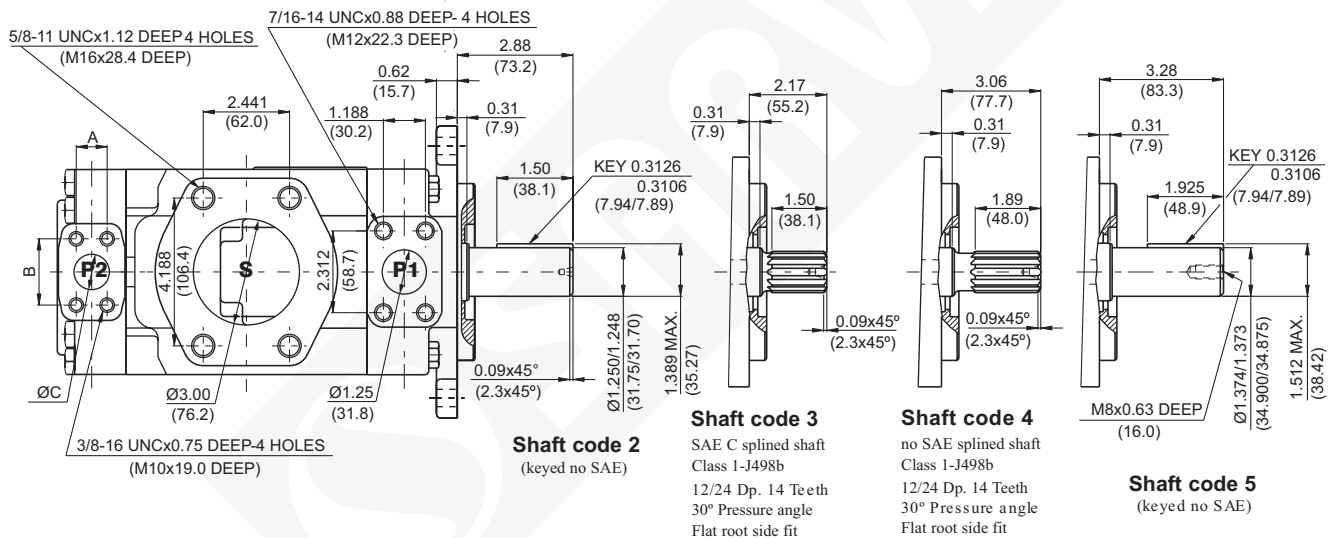
* B14-B38 Peak Pressure 270 bar

DIMENSIONS - S6DC SERIES

WEIGHT : 36.7 Kg.



S6DCW



Alternate connect.variables		Shaft torque limits in ³ /revxpsi(ml/revxbar)	
00 & M0	01 & M1	Shaft	Vp x p max. (P1+P2)
A 1.031 (26.2)	0.874 (22.2)	1	38299 (43240)
B 2.06 (52.4)	1.874 (47.6)	2	30638 (34590)
C 1.00 (25.4)	0.75 (19.05)	3	54207 (61200)
		4	54207 (61200)
		5	49247 (55600)

Porting Diagrams

