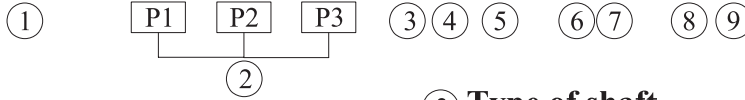


KT6DCC - 038 - 022 - 008 - 1 R 00 - A 1 - 00 *



① Series

② Cam ring for " P1 "

Volumetric displacement (cm³/rev)

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	061=190.5

Cam ring for " P2 " & " P3 "

003=10.8	017=58.3
005=17.2	020=63.8
006=21.3	022=70.3
008=26.4	025=79.3
010=34.1	028=88.8
012=37.1	031=100.0
014=46.0	

③ Type of shaft

- 1 - Keyed (no SAE)
- 2 - Keyed (SAE CC)
- 3 - Splined (SAE C)
- 4 - Splined (SAE CC)

④ Direction of rotation(view on shaft end)

- R=clockwise
- L=counter-clockwise

⑤ Porting combination

00-standard

⑥ Design letter

⑦ Seal class

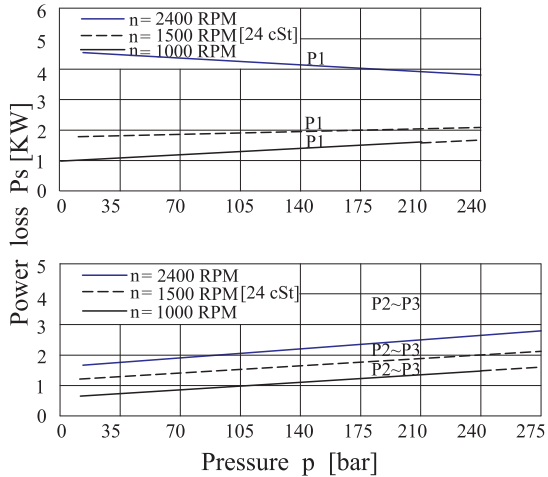
- 1-S1 (for mineral oil)
- 4-S4 (for fire resistant fluids)
- 5-S5 (for mineral oil and fire resistant fluids)

⑧ Mounting W/connection variables

	Unc		Metric	
	00	01	M0	M1
P3	1"	3/4"	1"	3/4"

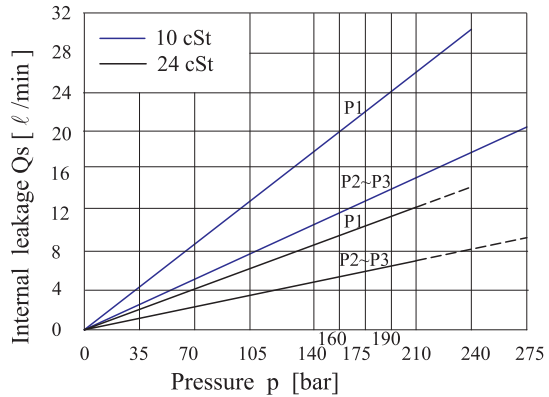
⑨ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

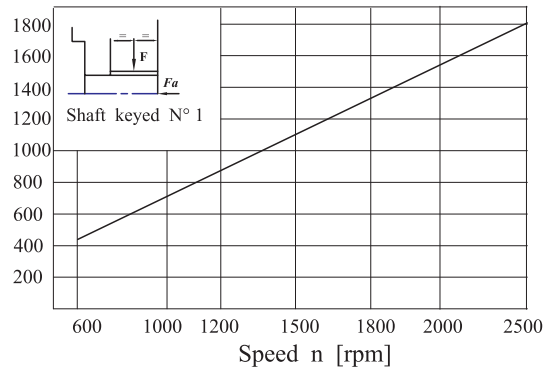


Total hydromechanical power loss is the sum of each section at its operating conditions.

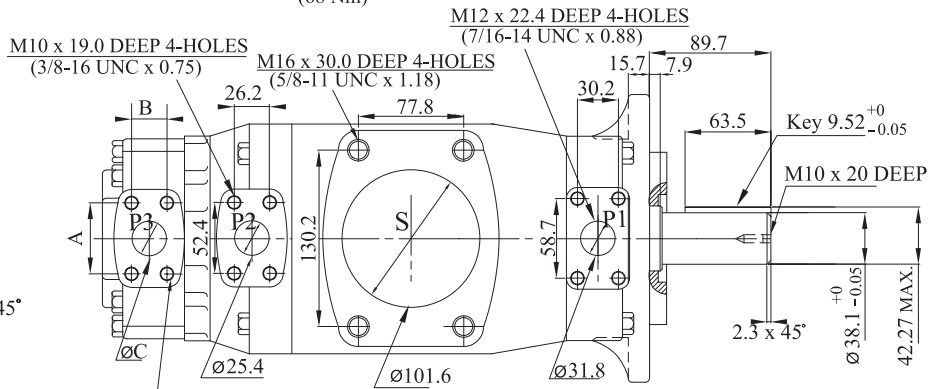
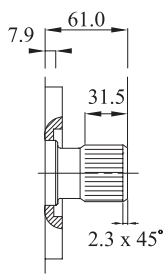
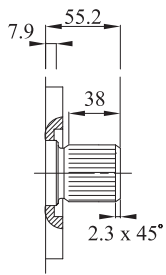
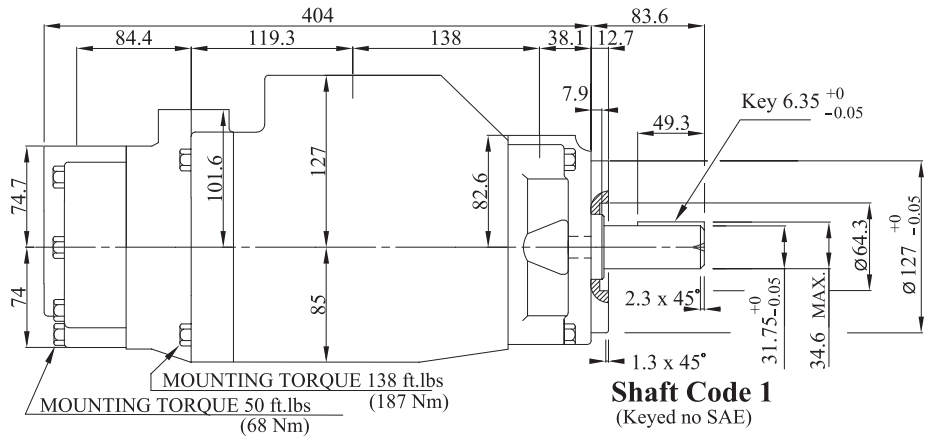
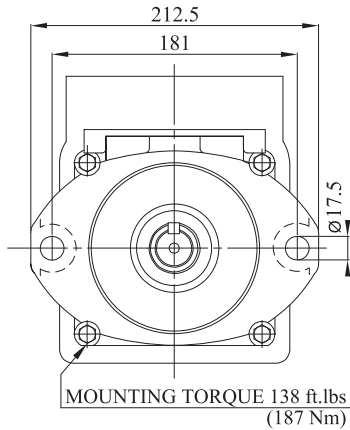
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



Shaft Code 3

SAE C splined shaft
Class 1-J498 b 12/24 dp.
-14 teeth 30°
pressure angle flat root
side fit

Shaft Code 4

SAE CC splined shaft
Class 1-J498 b 12/24 dp.
-17 teeth 30° pressure
angle flat root
side fit

M10 x 19.0 DEEP 4-HOLES (3/8-16 UNC x 0.75)

Shaft Code 2

(Keyed SAE CC)

PORT	CODE	A	B	C
P3	00&M0	2.06(52.4)	1.03(26.2)	1.0(25.4)
	01&M1	1.874(47.6)	0.874(22.2)	0.75(19.05)

Shaft torque limits (mℓ/rev x bar)	
Shaft	Vp x p max.(P1+P2+P3)
1	43240
2	66500
3	61200
4	66500

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n =1500rpm (ℓ/min)			Input power p & n =1500rpm (KW)			P Max Kg/cm ²	Max r.p.m
			P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar		
P1	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0		
	020	66.0	99.0	89.7	83.5	2.8	24.9	41.7		
	024	79.5	119.3	110.0	103.8	3.0	29.6	49.8		
	028	89.7	134.5	125.2	119.0	3.2	33.2	55.9		
	031	98.3	147.5	138.1	131.9	3.3	36.2	61.0		
	035	111.0	166.5	157.2	151.0	3.5	40.7	68.7		
	038	120.3	180.4	171.1	164.9	3.7	43.9	74.3		
	042 1)	136.0	204.0	194.7	188.5	4.0	49.4	83.7		
	045 1)	145.7	218.5	209.2	203.0	4.1	52.8	89.5		
	050 1)	158.0	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)		
061 1)	190.5	285.7	278.0	—	4.6	60.6	—			
P2 - P3	005	17.2	25.8	20.8	17.3	1.4	7.5	12.2	275	2500
	006	21.3	31.9	26.9	23.4	1.5	8.9	14.7		
	008	26.4	39.6	34.6	31.1	1.6	10.7	17.7		
	010	34.1	51.1	46.1	42.6	1.7	13.4	22.3		
	012	37.1	55.6	50.6	47.1	1.7	14.4	24.1		
	014	46.0	69.0	64.0	60.5	1.9	17.6	29.5		
	017	58.3	87.4	82.4	78.9	2.1	21.9	36.9		
	020	63.8	95.7	90.7	87.2	2.2	23.8	40.2		
	022	70.3	105.4	100.4	96.9	2.3	26.1	44.1		
	025	79.3	118.9	113.9	110.4	2.5	29.2	49.5		
	028	88.8	133.2	128.2	125.8 2)	2.8	32.7	48.5 2)		
031	100.0	150.0	145.0	142.6 2)	2.8	36.5	54.2 2)			

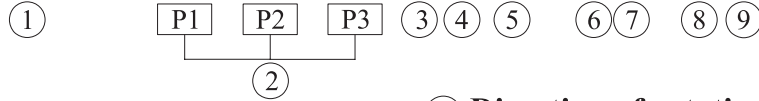
1) 042-045-050-061=2200rpm max.

2) 028-031-050=210 bar max. int.

3) 061=120 bar max. int.
061=80 bar cont.

Min Speed : 600 rpm

KT6DDCS - 038 - 035 - 014 - 1 R 00 - B 1 - 00 *



① Series

SAE C 6 bolts
Mounting flange J744 SAE C

② Cam ring for " P1 " & " P2 "

Volumetric displacement (cm³/rev)

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	061=190.5

Cam ring for " P3 "

005=17.2	017=58.3
006=21.3	020=63.8
008=26.4	022=70.3
010=34.1	025=79.3
012=37.1	028=88.8
014=46.0	031=100.0

③ Type of shaft

- 1 - Keyed (SAE C)
- 2 - Keyed (SAE CC)
- 3 - Splined (SAE C)
- 4 - Splined (SAE CC)
- 5 - Keyed (no SAE)

④ Direction of rotation(view on shaft end)

R=clockwise
L=counter-clockwise

⑤ Porting combination

00-standard

⑥ Design letter

⑦ Seal class

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

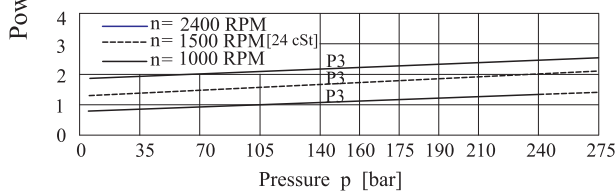
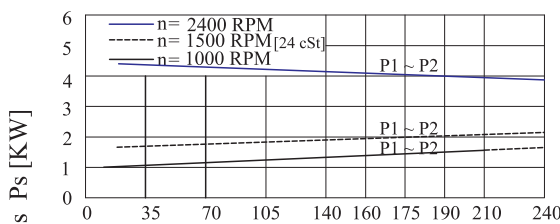
⑧ Port connection variables

SAE 4 bolt flange (J518c)

P1 & P2 = 1 1/4" S = 4"				
	Unc		Metric	
CODE	00	01	M0	M1
P3	1"	3/4"	1"	3/4"

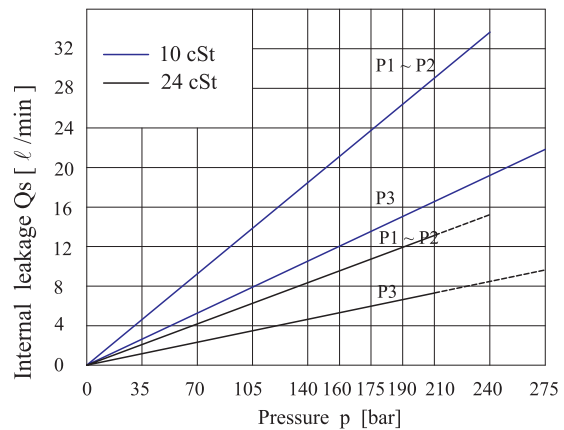
⑨ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

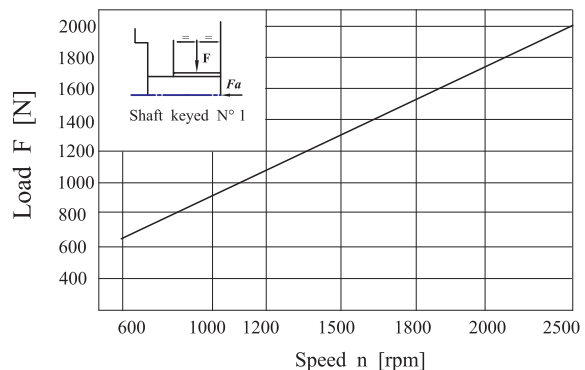


Total hydromechanical power loss is the sum of each section at its operating conditions.

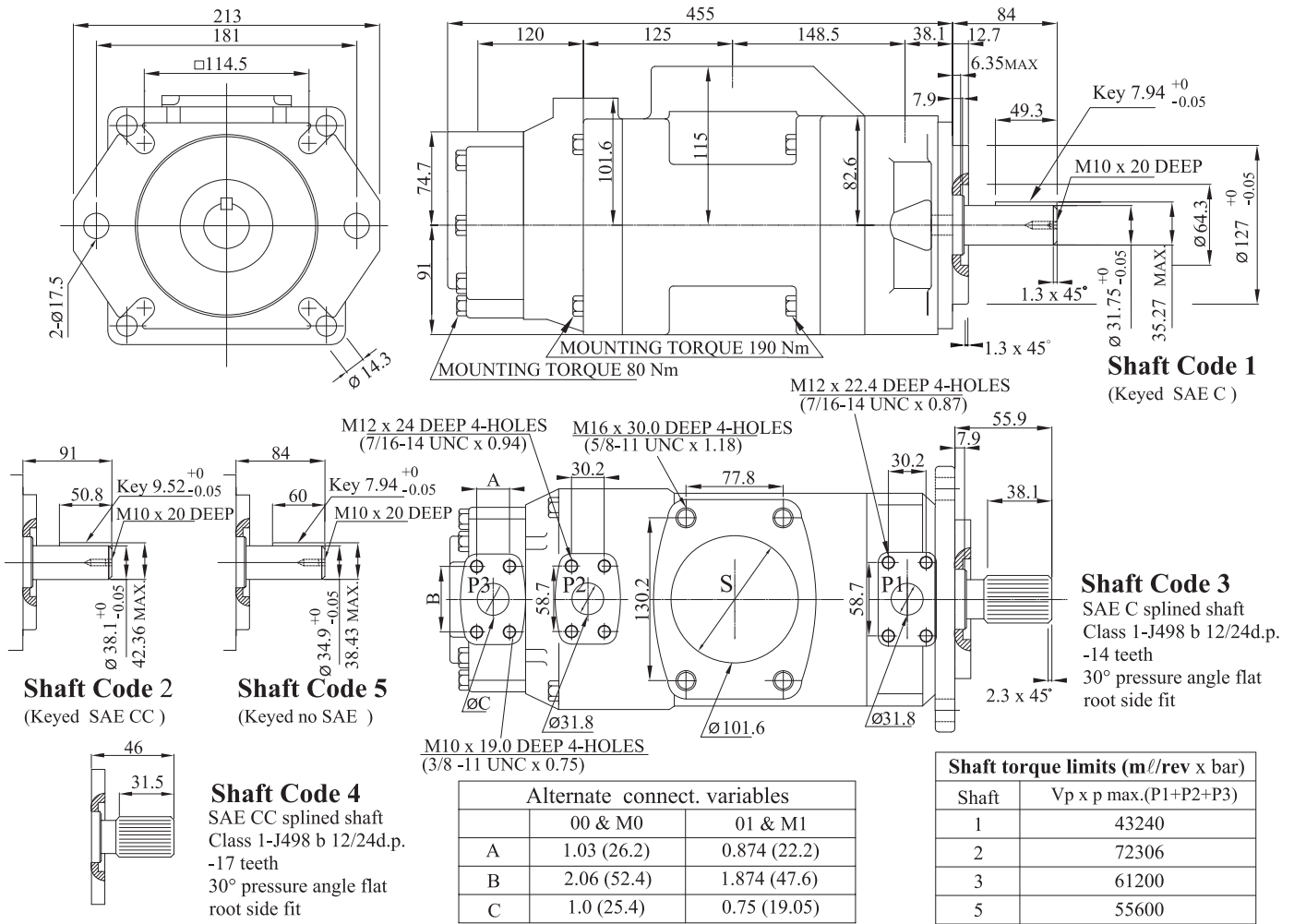
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n=1500rpm (ℓ/min)			Input power p & n =1500rpm (KW)			P Max Kg/cm ²	Max r.p.m		
			P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar				
P1 ~ P2	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6	240	2500		
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0				
	020	66.0	99.0	89.7	83.5	2.8	24.9	41.7				
	024	79.5	119.3	110.0	103.8	3.0	29.6	49.8				
	028	89.7	134.5	125.2	119.0	3.2	33.2	55.9				
	031	98.3	147.5	138.1	131.9	3.3	36.2	61.0				
	035	111.0	166.5	157.2	151.0	3.5	40.7	68.7				
	038	120.3	180.4	171.1	164.9	3.7	43.9	74.3				
	042 1)	136.0	204.0	194.7	188.5	4.0	49.4	83.7			210	2200
	045 1)	145.7	218.5	209.2	203.0	4.1	52.8	89.5				
	050 1)	158.0	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)				
	061 1)	190.5	285.7	278.0 3)	—	4.6	60.6 3)	—	120			
P3	005	17.2	25.8	20.8	17.3	1.4	7.5	12.2	275	2500		
	006	21.3	31.9	26.9	23.4	1.5	8.9	14.7				
	008	26.4	39.6	34.6	31.1	1.6	10.7	17.7				
	010	34.1	51.1	46.1	42.6	1.7	13.4	22.3				
	012	37.1	55.6	50.6	47.1	1.7	14.4	24.1				
	014	46.0	69.0	64.0	60.5	1.9	17.6	29.5				
	017	58.3	87.4	82.4	78.9	2.1	21.9	36.9				
	020	63.8	95.7	90.7	87.2	2.2	23.8	40.2				
	022	70.3	105.4	100.4	96.9	2.3	26.1	44.1				
	025	79.3	118.9	113.9	110.4	2.5	29.2	49.5				
	028	88.8	133.2	128.2	125.8 2)	2.8	32.7	48.5 2)			210	
	031	100.0	150.0	145.0	142.6 2)	2.8	36.5	54.2 2)				

1) 042-045-050-061=2200RPM max.

2) 028-031-050=210 bar max.

3) 061=120 bar max. int.
061=80 bar cont.

Min Speed : 600 rpm

KT6EDC/M - 066 - 038 - 008 - 1 R 00 - C 1 - P - 0 - *



① Series

② Cam ring for " P1 "

Volumetric displacement (cm³/rev)

042=132.3	062=196.7
045=142.4	066=213.3
050=158.5	072=227.1
052=164.8	085=269.8
057=180.7	

Cam ring for " P2 "

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	061=190.5

Cam ring for " P3 "

005=17.2	017=58.3
006=21.3	020=63.8
008=26.4	022=70.3
010=34.1	025=79.3
012=37.1	028=88.8
014=46.0	031=100.0

③ Type of shaft

- 1 - Keyed (G45N-ISO 3019-2)
- 2 - Keyed (SAED & E)
- 3 - Splined

④ Direction of rotation(view on shaft end)

- R=clockwise
- L=counter-clockwise

⑤ Porting combination

- 00-standard

⑥ Design letter

⑦ Seal class

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

⑧ Mounting (pump)

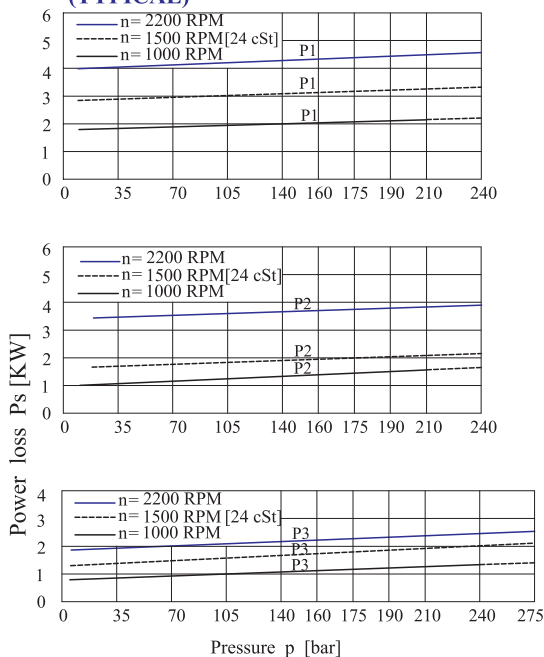
- P=Pedestal mounting
- F=Face mounting

⑨ Mounting W/connection variables

- 0=P3=1" SAE
- 1=P3=3/4" SAE

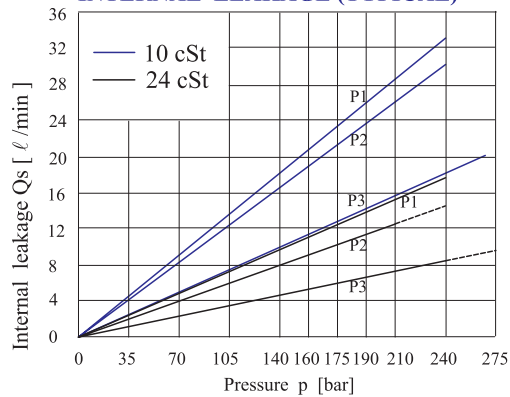
⑩ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

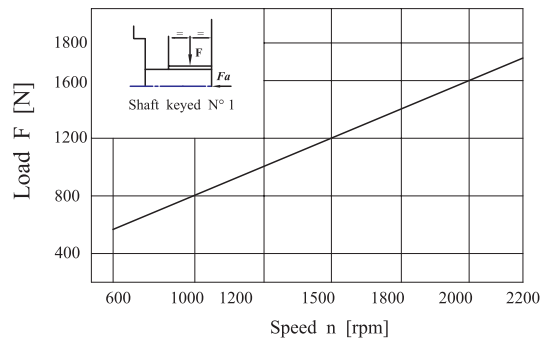


Total hydromechanical power loss is the sum of each section at its operating conditions.

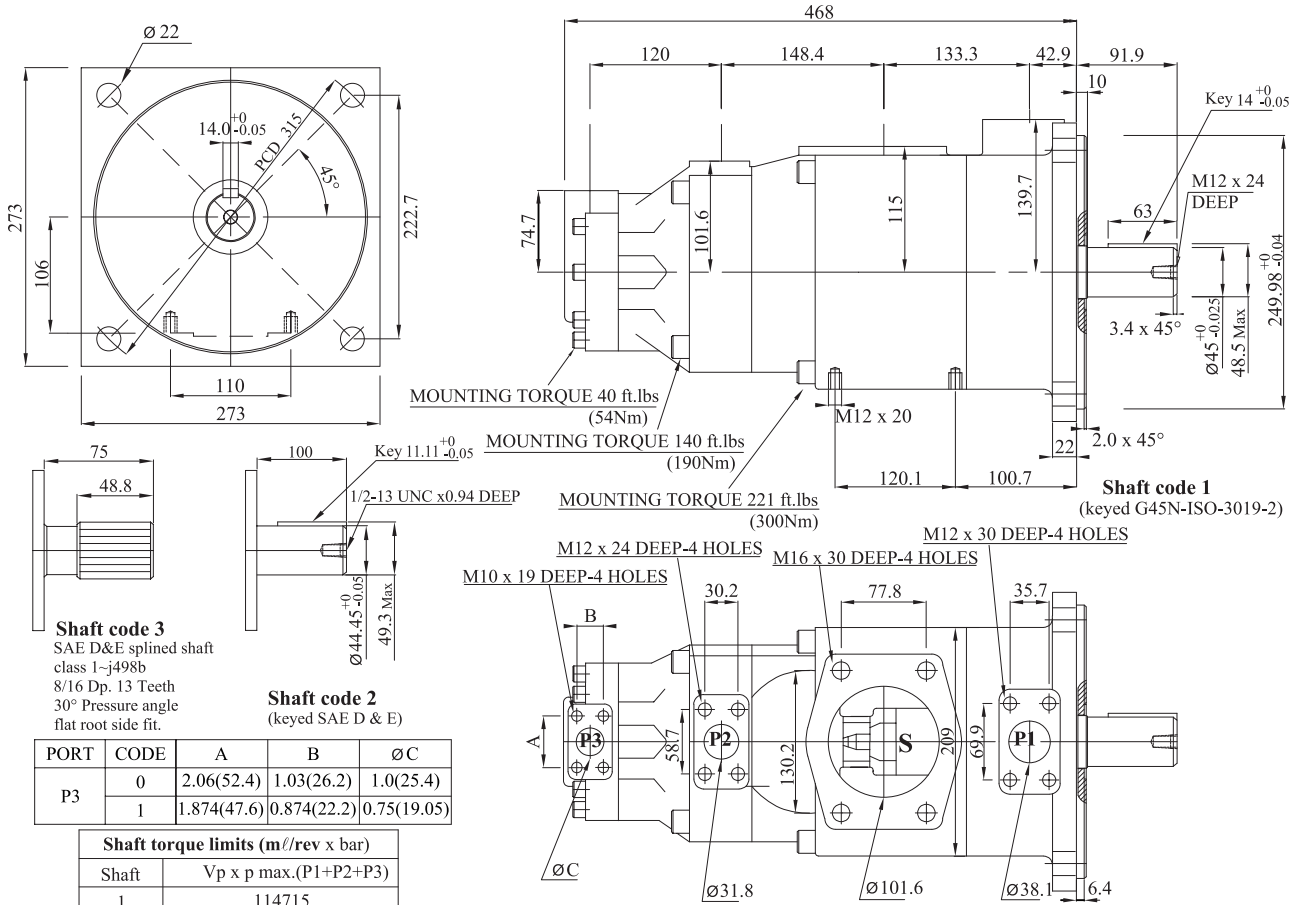
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 2000 N



OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp (cm ³ /rev)	Flow q & n = 1500rpm (ℓ/min)				Input power p & n = 1500rpm (KW)			P Max Kg/cm ²	Max r.p.m
			P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar			
P1	042	132.3	198.5	188.5	181.3	5.2	49.4	82.6	240	2200	
	045	142.4	213.6	203.6	196.5	5.4	52.9	88.7			
	050	158.5	237.7	227.7	220.6	5.7	58.5	98.3			
	052	164.8	247.2	237.2	230.1	5.8	60.8	102.1			
	057	180.7	271.1	261.1	254.0	6.1	66.4	106.9			
	062	196.7	295.0	285.0	277.9	6.4	71.9	121.3			
	066	213.3	319.9	309.9	302.8	6.7	77.7	131.2			
	072	227.1	340.6	330.6	323.5	6.9	82.6	139.5			
085 1)	269.8	404.7	397.7 2)	—	7.3	65.3 2)	—	90	2000		
P2	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6	240	2200	
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0			
	020	66.0	99.0	89.7	83.5	2.8	24.9	41.7			
	024	79.5	119.3	110.0	103.8	3.0	29.6	49.8			
	028	89.7	134.5	125.2	119.0	3.2	33.2	55.9			
	031	98.3	147.5	138.1	131.9	3.3	36.2	61.0			
	035	111.0	166.5	157.2	151.0	3.5	40.7	68.7			
	038	120.3	180.4	171.1	164.9	3.7	43.9	74.3			
	042	136.0	204.0	194.7	188.5	4.0	49.4	83.7			
	045	145.7	218.5	209.2	203.0	4.1	52.8	89.5			
	050	158.0	237.0	227.7	224.0 3)	4.4	57.0	85.0 3)			210
	061	190.5	285.7	278.0 4)	—	4.6	60.6 4)	—			120
	P3	005	17.2	25.8	20.8	17.3	1.4	7.5			12.2
006		21.3	31.9	26.9	23.4	1.5	8.9	14.7			
008		26.4	39.6	34.6	31.1	1.6	10.7	17.7			
010		34.1	51.1	46.1	42.6	1.7	13.4	22.3			
012		37.1	55.6	50.6	47.1	1.7	14.4	24.1			
014		46.0	69.0	64.0	60.5	1.9	17.6	29.5			
017		58.3	87.4	82.4	78.9	2.1	21.9	36.9			
020		63.8	95.7	90.7	87.2	2.2	23.8	40.2			
022		70.3	105.4	100.4	96.9	2.3	26.1	44.1			
025		79.3	118.9	113.9	110.4	2.5	29.2	49.5			
028		88.8	133.2	128.2	125.8 3)	2.8	32.7	48.5 3)	210		
031		100.0	150.0	145.0	142.6 3)	2.8	36.5	54.2 3)			

1) 085=2000RPM max.
4) 061=120 bar max. int.
061=80 bar cont.

2) 085=75 bar cont. 085=90 bar max. int. 3) 028-031-050=210 bar max.

Min Speed : 600 rpm

KT6EDCS - 066 - 038 - 008 - 1 R 00 - C 1 - P - 0 - *



① Series

② Cam ring for " P1 "

Volumetric displacement (cm³/rev)

042=132.3	062=196.7
045=142.4	066=213.3
050=158.5	072=227.1
052=164.8	085=269.8
057=180.7	

Cam ring for " P2 "

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	061=190.5

Cam ring for " P3 "

005=17.2	017=58.3
006=21.3	020=63.8
008=26.4	022=70.3
010=34.1	025=79.3
012=37.1	028=88.8
014=46.0	031=100.0

③ Type of shaft

- 1 - Keyed (G45N-ISO 3019-2)
- 2 - Keyed (SAE D & E)
- 3 - Splined

④ Direction of rotation(view on shaft end)

- R=clockwise
- L=counter-clockwise

⑤ Porting combination

- 00-standard

⑥ Design letter

⑦ Seal class

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

⑧ Mounting (pump)

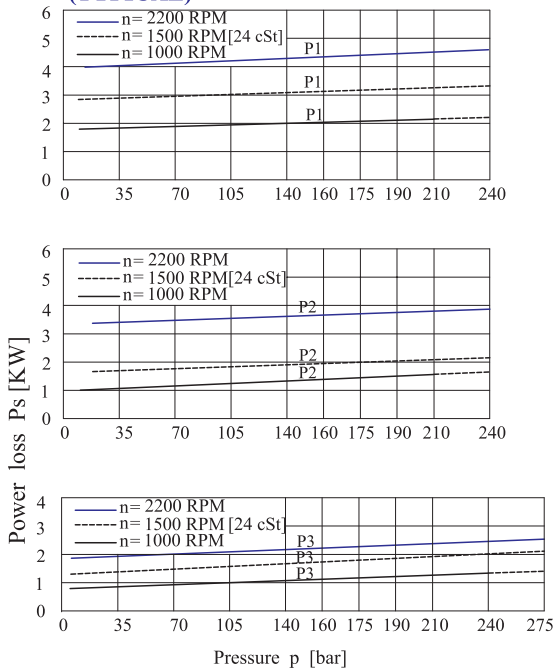
- P=Pedestal mounting
- F=Face mounting

⑨ Mounting W/connection variables

- 0=P3=1" SAE
- 1=P3=3/4" SAE

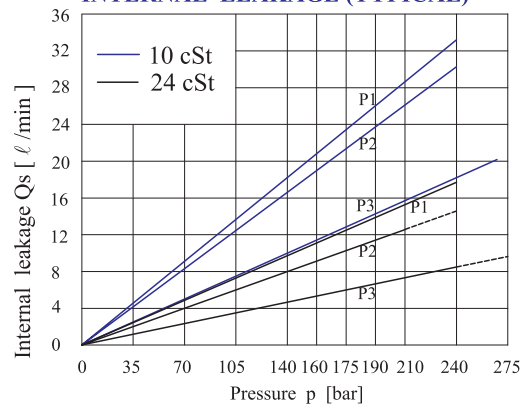
⑩ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

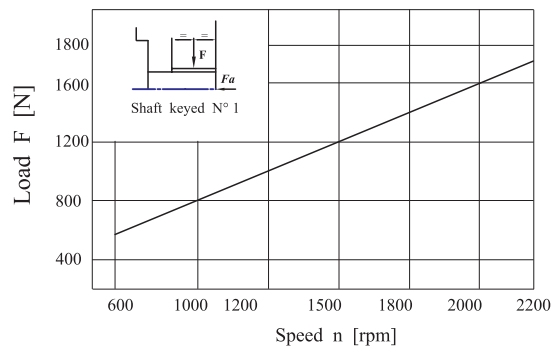


Total hydromechanical power loss is the sum of each section at its operating conditions.

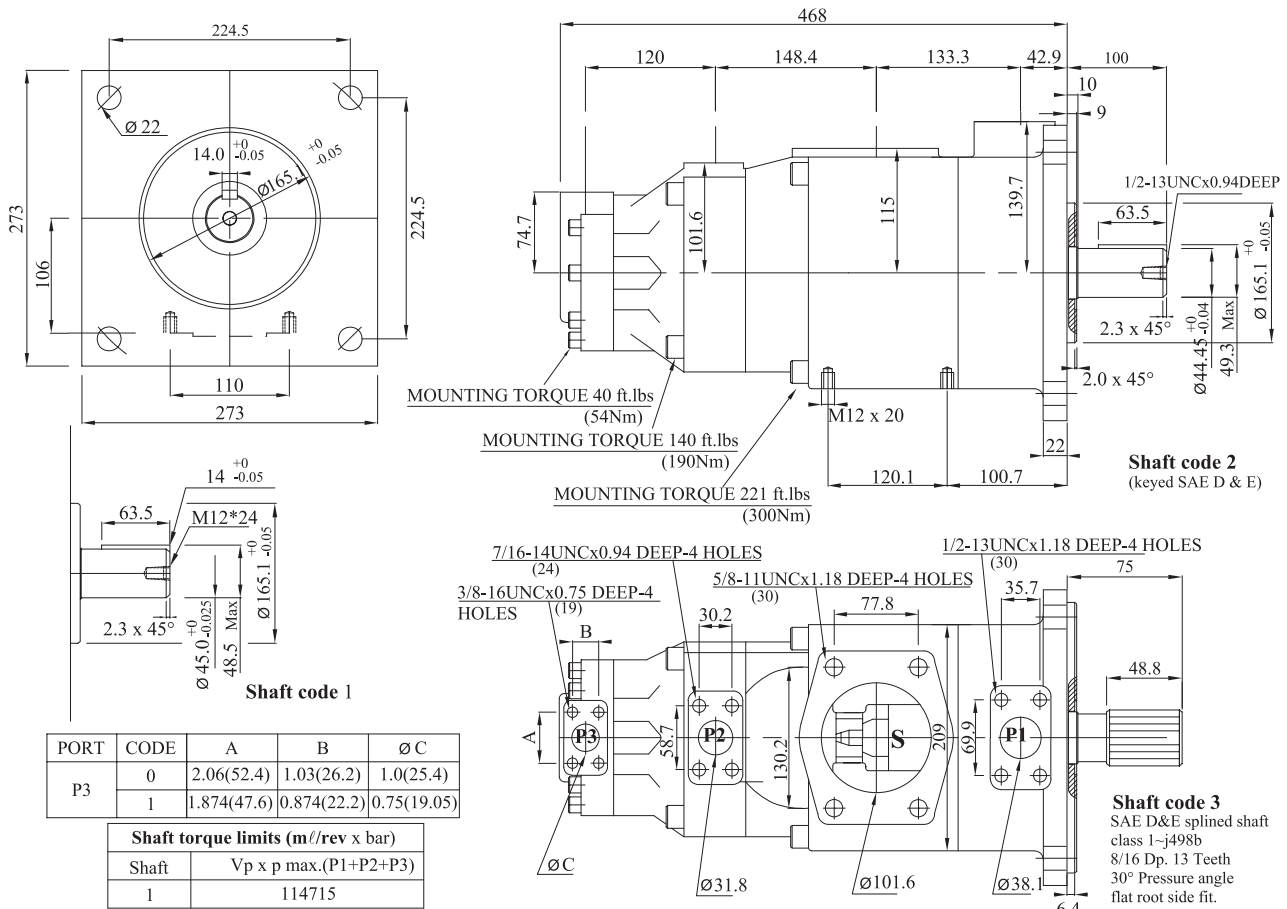
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load $F_a = 2000$ N



OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n = 1500rpm (l/min)			Input power p & n = 1500rpm (KW)			P Max Kg/cm ²	Max r.p.m	
			P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar			
P1	042	132.3	198.5	188.5	181.3	5.2	49.4	82.6	240	2200	
	045	142.4	213.6	203.6	196.5	5.4	52.9	88.7			
	050	158.5	237.7	227.7	220.6	5.7	58.5	98.3			
	052	164.8	247.2	237.2	230.1	5.8	60.8	102.1			
	057	180.7	271.1	261.1	254.0	6.1	66.4	106.9			
	062	196.7	295.0	285.0	277.9	6.4	71.9	121.3			
	066	213.3	319.9	309.9	302.8	6.7	77.7	131.2			
	072	227.1	340.6	330.6	323.5	6.9	82.6	139.5			
	085 1)	269.8	404.7	397.7 2)	—	7.3	65.3 2)	—			
	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6			240
017	58.2	87.3	78.0	71.8	2.5	22.2	37.0				
020	66.0	99.0	89.7	83.5	2.8	24.9	41.7				
024	79.5	119.3	110.0	103.8	3.0	29.6	49.8				
028	89.7	134.5	125.2	119.0	3.2	33.2	55.9				
031	98.3	147.5	138.1	131.9	3.3	36.2	61.0				
035	111.0	166.5	157.2	151.0	3.5	40.7	68.7				
038	120.3	180.4	171.1	164.9	3.7	43.9	74.3				
042	136.0	204.0	194.7	188.5	4.0	49.4	83.7				
045	145.7	218.5	209.2	203.0	4.1	52.8	89.5				
050	158.0	237.0	227.7	224.0 3)	4.4	57.0	85.0 3)	210	210	2200	
061	190.5	285.7	278.0 4)	—	4.6	60.6 4)	—	120			
P3	005	17.2	25.8	20.8	17.3	1.4	7.5	12.2	275	2200	
	006	21.3	31.9	26.9	23.4	1.5	8.9	14.7			
	008	26.4	39.6	34.6	31.1	1.6	10.7	17.7			
	010	34.1	51.1	46.1	42.6	1.7	13.4	22.3			
	012	37.1	55.6	50.6	47.1	1.7	14.4	24.1			
	014	46.0	69.0	64.0	60.5	1.9	17.6	29.5			
	017	58.3	87.4	82.4	78.9	2.1	21.9	36.9			
	020	63.8	95.7	90.7	87.2	2.2	23.8	40.2			
	022	70.3	105.4	100.4	96.9	2.3	26.1	44.1			
	025	79.3	118.9	113.9	110.4	2.5	29.2	49.5			
	028	88.8	133.2	128.2	125.8 3)	2.8	32.7	48.5 3)			210
	031	100.0	150.0	145.0	142.6 3)	2.8	36.5	54.2 3)			

1) 085=2000RPM max. 2) 085=75 bar cont. 085=90 bar max. int. 3) 028-031-050=210 bar max.
 4) 061=120 bar max. int. 061=80 bar cont.

Min Speed : 600 rpm

KT67DCB - 038 - 022 - B08 - 1 R 00 - A 1 - 01 *

① P1 P2 P3 ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Series SAE C 2 bolts**
Mounting flange j744c

② **Cam ring for " P1 "**
Volumetric displacement (cm³/rev)

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	061=190.5

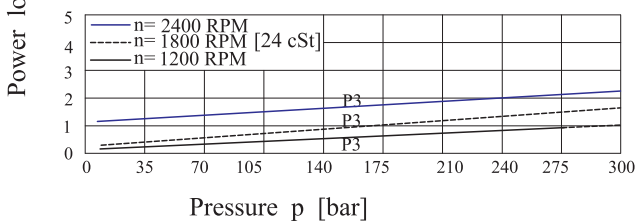
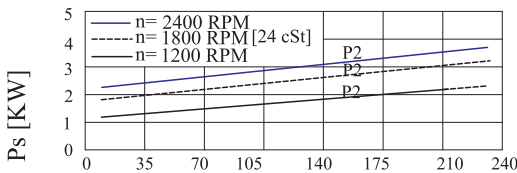
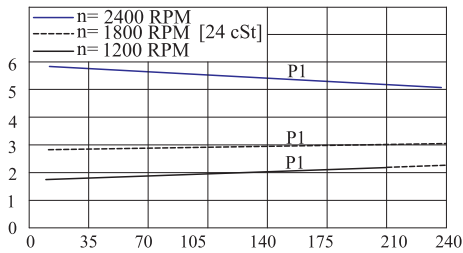
Cam ring for " P2 "

005=17.2	017=58.3
006=21.3	020=63.8
008=26.4	022=70.3
010=34.1	025=79.3
012=37.1	028=88.8
014=46.0	031=100.0

Cam ring for " P3 "

B02=5.7	B09=28.0
B03=9.8	B10=31.8
B04=12.8	B11=34.9
B05=15.9	B12=40.9
B06=19.8	B14=45.1
B07=22.5	B15=50.0
B08=24.9	

HYDROMECHANICAL POWER LOSS (TYPICAL)



Total hydromechanical power loss is the sum of each section at its operating conditions.

③ **Type of shaft**

- 1 - Keyed (no SAE)
- 2 - Keyed (SAE CC)
- 3 - Splined (SAE C)
- 4 - Splined (SAE CC)

④ **Direction of rotation(view on shaft end)**

- R=clockwise
- L=counter-clockwise

⑤ **Porting combination**

- 00-standard

⑥ **Design letter**

⑦ **Seal class**

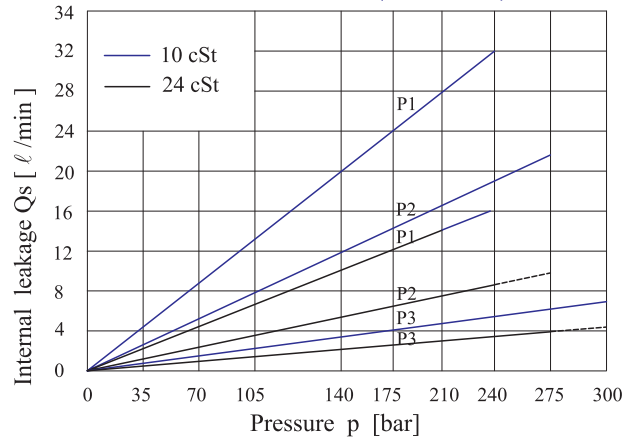
- 1-S1 (for mineral oil)
- 4-S4 (for fire resistant fluids)
- 5-S5 (for mineral oil and fire resistant fluids)

⑧ **Mounting W/connection variables**

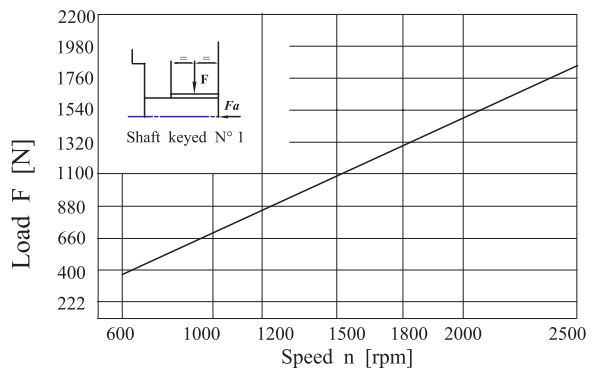
P1=1 1/4" P2=1" P3=3/4" S=4"	
Unc	Metric
01	M1

⑨ **Modifications**

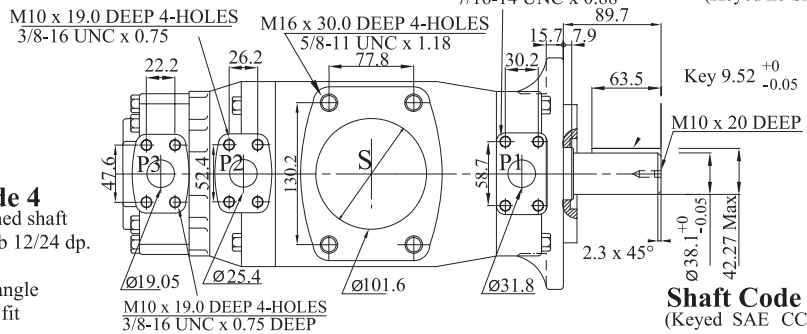
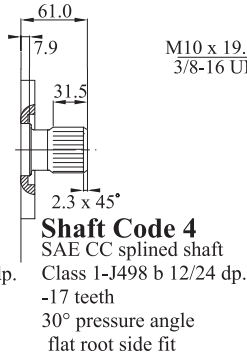
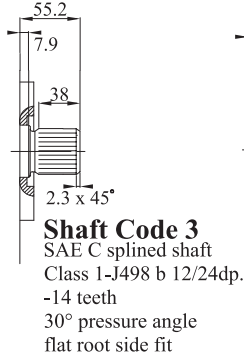
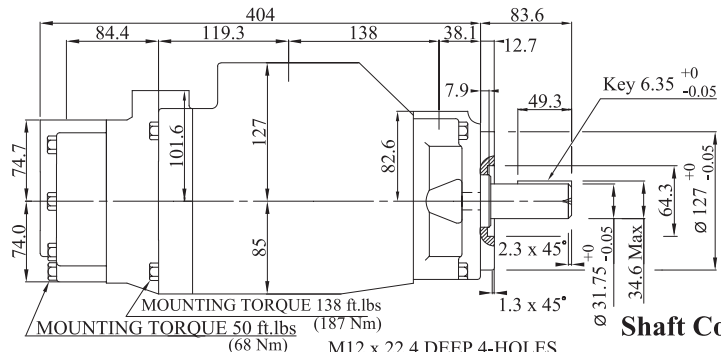
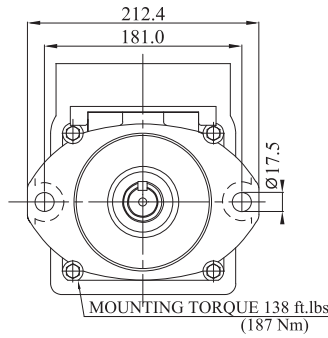
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N



OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n=1800rpm (l/min)			Input power p & n=1800rpm (KW)			P Max Kg/cm ²	Max r.p.m	
			P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar			
P1	014	47.6	85.0	77.4	71.1	2.99	21.85	36.79	240	2500	
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0			
	020	66.0	118.6	101.4	104.2	3.38	29.47	50.11			
	024	79.5	142.8	134.6	128.5	3.66	35.06	59.89			
	028	89.7	161.3	153.0	146.8	3.87	39.28	67.28			
	031	98.3	176.7	168.5	162.3	4.09	42.84	73.51			
	035	111.0	199.6	191.3	184.1	4.31	48.09	82.7			
	038	120.3	216.3	208.1	201.8	4.50	51.94	83.47			
	042 1)	136.0	244.5	236.3	230.1	4.83	58.44	100.81			
	045 1)	145.7	261.9	253.7	247.5	5.02	62.45	107.83			
050 1)	158.0	284.1	275.8	271.3 2)	5.27	67.54	100.32 2)	210	2200		
061 1)	190.5	285.8	278.0 3)	—	5.5	72.69 3)	—			120	
P2	Series	cm ³ /rev	P=0 bar	P=140 bar	P=275 bar	P=7 bar	P=140 bar	P=275 bar	275	2500	
	005	17.2	30.9	26.0	21.5	1.70	8.94	14.77			
	006	21.3	38.3	33.4	28.8	1.78	10.64	17.74			
	008	26.4	47.4	42.6	37.9	1.89	12.75	21.43			
	010	34.1	61.3	56.4	51.8	2.06	15.94	27.00			
	012	37.1	66.7	61.8	57.2	2.11	17.18	29.18			
	014	46.0	82.7	77.8	73.2	2.30	20.87	35.62			
	017	58.3	104.8	99.9	95.3	2.55	25.95	44.54			
	020	63.8	114.7	109.8	105.2	2.66	28.23	48.52			
	022	70.3	126.4	121.5	116.9	2.80	30.92	53.22			
	025 4)	79.3	142.5	137.6	133.1	2.99	34.64	59.74			
	028 4)	88.8	159.6	154.7	152.4 2)	3.18	38.58	57.22 2)			210
	031 4)	100.0	179.7	174.9	172.5 2)	3.41	43.21	64.17 2)			
P3	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2500	
	B02	5.7	10.4	8.8	6.8	0.55	2.99	6.40			
	B03	9.8	17.6	15.9	14.0	0.63	4.65	10.25			
	B04	12.8	23.0	21.4	19.4	0.70	5.89	13.13			
	B05	15.9	28.6	26.9	25.0	0.76	7.17	16.12			
	B06	19.8	35.6	33.9	32.0	0.84	8.79	19.88			
	B07	22.5	40.4	38.8	36.8	0.89	9.91	22.47			
	B08	24.9	44.7	43.1	41.1	0.94	10.9	24.78			
	B09	28.0	50.3	48.6	47.0	1.01	12.19	27.77			
	B10	31.8	57.2	55.5	53.5	1.11	13.75	31.42			
	B11	34.9	62.9	61.2	59.3	1.15	15.04	32.22			
	B12	40.9	73.7	72.1	70.1	1.28	17.56	37.71			
	B14	45.1	80.8	79.2	77.0	1.36	19.23	41.37			
	B15	50.0	89.8	88.3	86.5 5)	1.47	21.28	42.76 5)			280

1) 042-045-050-061=2200 rpm max.

2) 025-028-031-050=210 bar max.

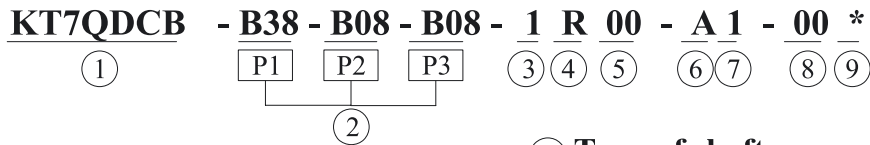
3) 061=120 bar max. int.

Min Speed : 600 rpm

4) 025-028-031=2500 rpm max.

5) B15=280 bar max. int.

061=80 bar cont.



① **Series**

② **Cam ring for " P1 "**

Volumetric displacement (cm³/rev)

B14=43.9	B35=113.4
B17=55.0	B38=120.6
B20=66.0	B42=137.5
B24=81.1	B45=145.7
B28=89.9	B50=157.9
B31=99.1	

Cam ring for " P2 "

B05=17.2	B17=58.3
B06=21.3	B20=63.8
B08=26.4	B22=70.3
B10=34.1	B25=79.3
B12=37.1	B28=88.8
B14=46.0	B31=100.0

Cam ring for " P3 "

B02=5.7	B09=28.0
B03=9.8	B10=31.8
B04=12.8	B11=34.9
B05=15.9	B12=40.9
B06=19.8	B14=45.1
B07=22.5	B15=50.0
B08=24.9	

③ **Type of shaft**

- 1 - Keyed (no SAE)
- 2 - Keyed (SAE CC)
- 3 - Splined (SAE C)
- 4 - Splined (SAE CC)

④ **Direction of rotation(view on shaft end)**

- R=clockwise
- L=counter-clockwise

⑤ **Porting combination**

00-standard

⑥ **Design letter**

⑦ **Seal class**

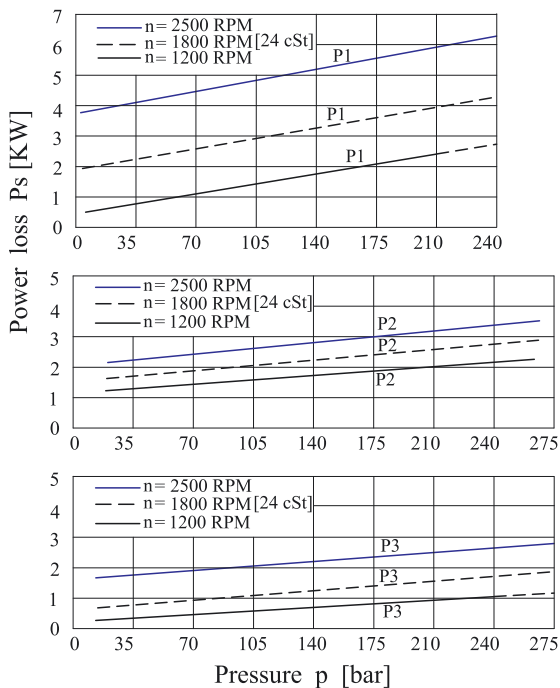
- 1-S1 (for mineral oil)
- 4-S4 (for fire resistant fluids)
- 5-S5 (for mineral oil and fire resistant fluids)

⑧ **Mounting W/connection variables**

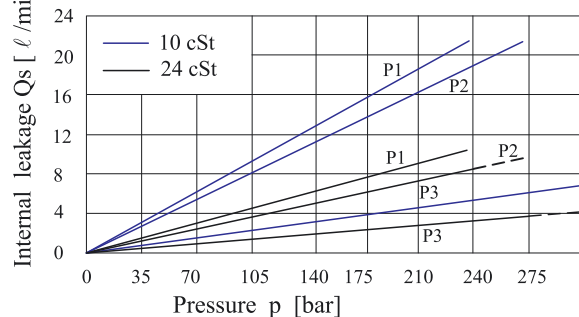
P1 = 1 1/4" P2 = 1" P3 = 3/4" S = 4"		
	Unc	Metric
	01	M1

⑨ **Modifications**

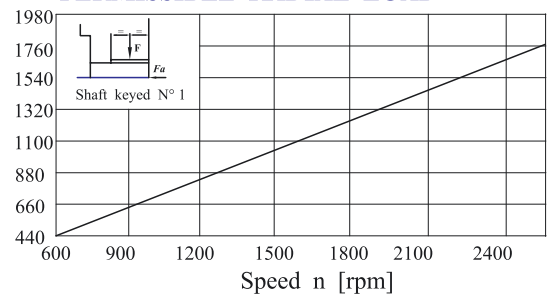
HYDROMECHANICAL POWER LOSS (TYPICAL)



INTERNAL LEAKAGE (TYPICAL)

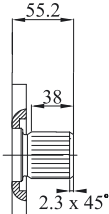
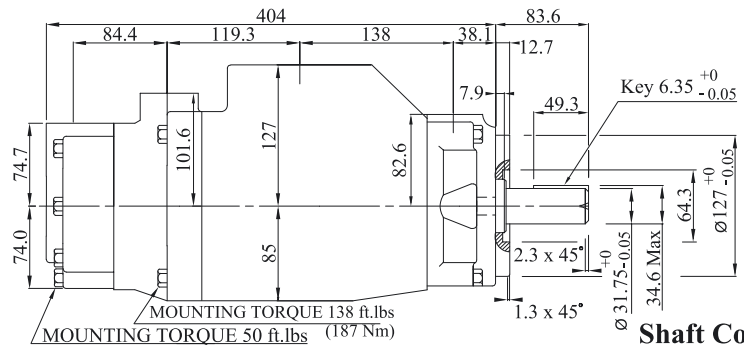
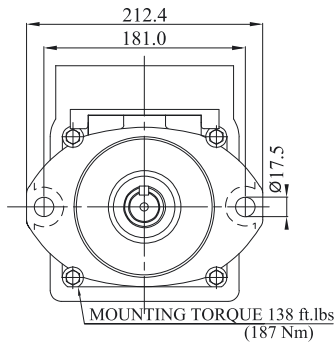


PERMISSIBLE RADIAL LOAD

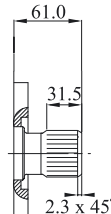


Maximum permissible axial load Fa = 1200 N

Total hydromechanical power loss is the sum of each section at its operating conditions.



Shaft Code 3
SAE C splined shaft
Class 1-J498 b 12/24dp.
-14 teeth
30° pressure angle
flat root side fit

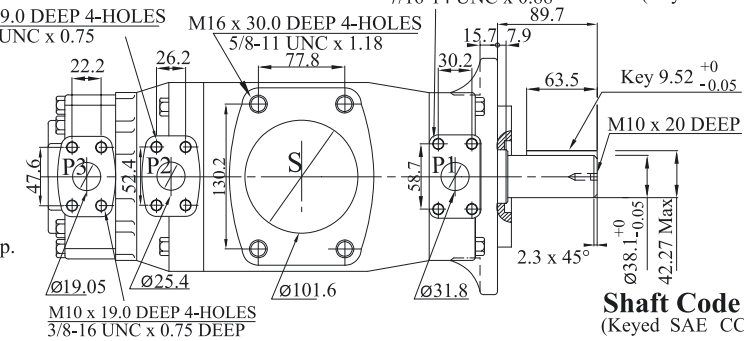


Shaft Code 4
SAE CC splined shaft
Class 1-J498 b 12/24 dp.
-17 teeth
30° pressure angle
flat root side fit

M10 x 19.0 DEEP 4-HOLES
3/8-16 UNC x 0.75

M16 x 30.0 DEEP 4-HOLES
5/8-11 UNC x 1.18

M12 x 22.4 DEEP 4-HOLES
7/16-14 UNC x 0.88



Shaft Code 1
(Keyed no SAE)

Shaft Code 2
(Keyed SAE CC)

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

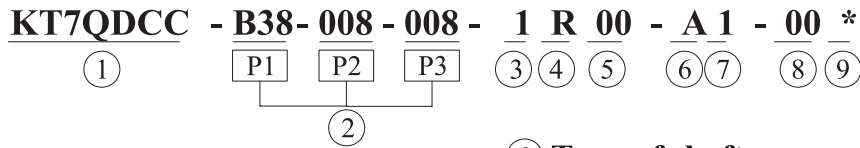
Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n=1800rpm (l/min)			Input power p & n=1800rpm (KW)			P Max ₂ Kg/cm	Max r.p.m
			P=0 bar	P=140 bar	P=250 bar	P=7 bar	P=140 bar	P=250 bar		
P1	B14	43.9	79.1	72.5	67.3	2.6	20.7	35.0	250	2500
	B17	55.0	98.8	92.3	87.0	2.8	25.3	43.0		
	B20	66.0	118.6	112.0	106.8	3.0	29.8	50.9		
	B24	81.1	145.8	139.2	134.0	3.4	36.1	61.9		
	B28	89.9	161.8	155.2	150.0	3.5	39.7	68.3		
	B31	99.1	178.3	171.7	166.5	3.7	43.6	75.0		
	B35	113.4	203.9	197.2	192.0	4.0	49.4	85.3		
	B38	120.6	216.8	210.2	204.9	4.2	52.4	90.5		
	B42	137.5	247.2	240.6	235.4	4.5	59.4	102.7		
	B45	145.7	261.9	253.6	246.8	5.0	62.4	108.7		
B50	157.9	284.1	275.8	271.3 1)	5.3	67.5	100.3 1)	210	2200	
P2	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	275	2500
	B05	17.2	30.9	26.0	16.44	1.70	8.94	17.88		
	B06	21.3	38.3	33.4	21.6	1.78	10.64	21.6		
	B08	26.4	47.4	42.6	30.72	1.89	12.75	26.16		
	B10	34.1	61.3	56.4	44.64	2.06	15.94	33.0		
	B12	37.1	66.7	61.8	50.04	2.11	17.18	35.4		
	B14	46.0	82.7	77.8	66.0	2.30	20.87	43.8		
	B17	58.3	104.8	99.9	88.2	2.55	25.95	54.84		
	B20	63.8	114.7	109.8	98.04	2.66	28.23	59.76		
	B22	70.3	126.4	121.5	109.8 2)	2.80	30.92	60.36 2)		
	B25	79.3	142.5	137.6	—	2.99	34.64	—		
B28	88.8	159.6	154.7	—	3.18	38.58	—			
B31	100.0	179.7	174.9	—	3.41	43.21	—			
P3	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2500
	B02	5.7	10.4	8.8	6.8	0.55	2.99	6.40		
	B03	9.8	17.6	15.9	14.0	0.63	4.65	10.25		
	B04	12.8	23.0	21.4	19.4	0.70	5.89	13.13		
	B05	15.9	28.6	26.9	25.0	0.76	7.17	16.12		
	B06	19.8	35.6	33.9	32.0	0.84	8.79	19.88		
	B07	22.5	40.4	38.8	36.8	0.89	9.91	22.47		
	B08	24.9	44.7	43.1	41.1	0.94	10.9	24.78		
	B09	28.0	50.3	48.6	47.0	1.01	12.19	27.77		
	B10	31.8	57.2	55.5	53.5	1.11	13.75	31.42		
	B11	34.9	62.9	61.2	59.3	1.15	15.04	32.22		
	B12	40.9	73.7	72.1	70.1	1.28	17.56	37.71		
	B14	45.1	80.8	79.2	77.0	1.36	19.23	41.37		
B15	50.0	89.8	88.3	86.5 3)	1.47	21.28	42.76 3)	280		

1) B50=210 bar max. int.

2) B22=240 bar max. int.

3) B15=280 bar max. int.

Min Speed : 600 rpm



① Series

② Cam ring for " P1 "

Volumetric displacement (cm³/rev)

B14=43.9	B35=113.4
B17=55.0	B38=120.6
B20=66.0	B42=137.5
B24=81.1	B45=145.7
B28=89.9	B50=157.9
B31=99.1	

Cam ring for " P2 " " P3 "

005=17.2	017=58.3
006=21.3	020=63.8
008=26.4	022=70.3
010=34.1	025=79.3
012=37.1	028=88.8
014=46.0	031=100.0

③ Type of shaft

- 1 - Keyed (no SAE)
- 2 - Keyed (SAE CC)
- 3 - Splined (SAE C)
- 4 - Splined (SAE CC)
- 6 - Splined (no SAE)

④ Direction of rotation(view on shaft end)

- R=clockwise
- L=counter-clockwise

⑤ Porting combination

00-standard

⑥ Design letter

⑦ Seal class

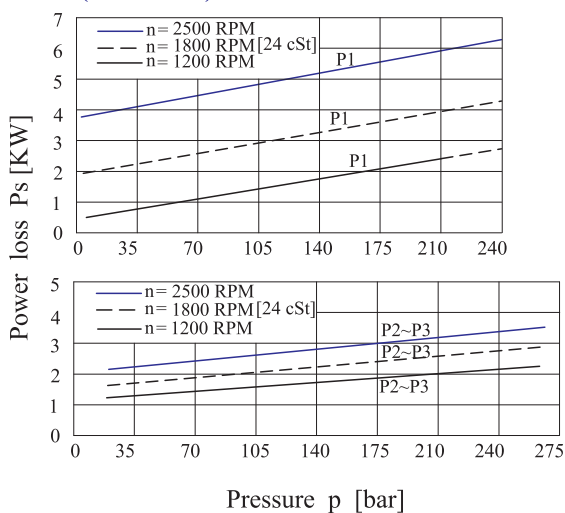
- 1-S1 (for mineral oil)
- 4-S4 (for fire resistant fluids)
- 5-S5 (for mineral oil and fire resistant fluids)

⑧ Mounting W/connection variables

	Unc		Metric	
	00	01	M0	M1
P3	1"	3/4"	1"	3/4"

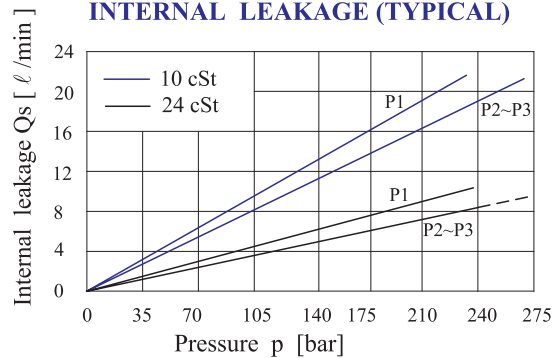
⑨ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

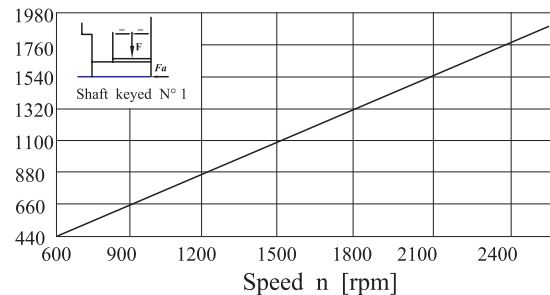


Total hydromechanical power loss is the sum of each section at its operating conditions.

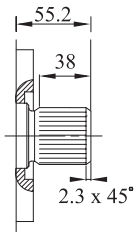
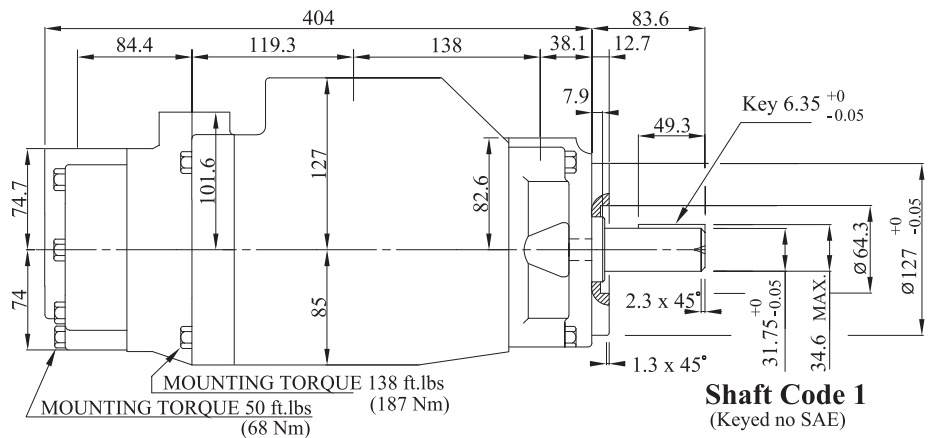
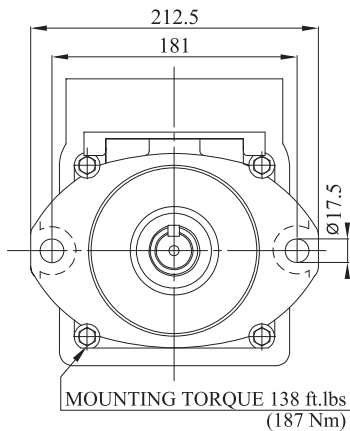
INTERNAL LEAKAGE (TYPICAL)



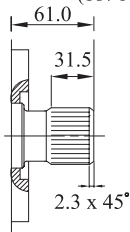
PERMISSIBLE RADIAL LOAD



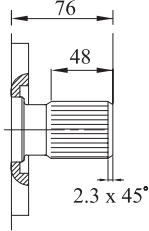
Maximum permissible axial load Fa = 1200 N



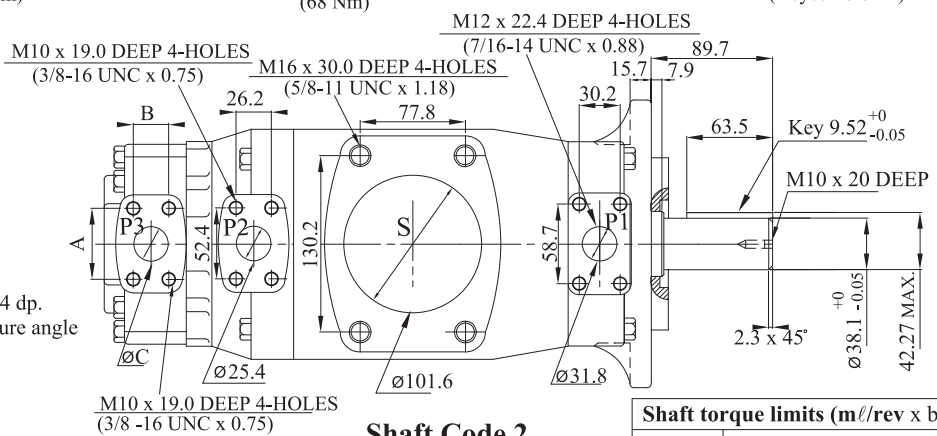
Shaft Code 3
SAE C
Class 1-J498 b 12/24 dp.
14 teeth
30° pressure angle



Shaft Code 4
SAE CC
Class 1-J498 b 12/24 dp.
17 teeth 30% pressure angle
30° pressure angle



Shaft Code 6
no SAE
Class 1-J498 b 12/24 dp.
14 teeth
30° pressure angle



PORT	CODE	A	B	C
P3	00&M0	2.06(52.4)	1.03(26.2)	1.0(25.4)
	01&M1	1.874(47.6)	0.874(22.2)	0.75(19.05)

Shaft torque limits (m//rev x bar)	
Shaft	Vp x p max.(P1+P2+P3)
1	43240
2	66500
3	61200
4	66500

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n=1800rpm (l/min)			Input power p & n=1800rpm (KW)			P Max Kg/cm ²	Max r.p.m
			P=0 bar	P=140 bar	P=250 bar	P=7 bar	P=140 bar	P=250 bar		
P1	B14	43.9	79.1	72.5	67.3	2.6	20.7	35.0	250	2500
	B17	55.0	98.8	92.3	87.0	2.8	25.3	43.0		
	B20	66.0	118.6	112.0	106.8	3.0	29.8	50.9		
	B24	81.1	145.8	139.2	134.0	3.4	36.1	61.9		
	B28	89.9	161.8	155.2	150.0	3.5	39.7	68.3		
	B31	99.1	178.3	171.7	166.5	3.7	43.6	75.0		
	B35	113.4	203.9	197.2	192.0	4.0	49.4	85.3		
	B38	120.6	216.8	210.2	204.9	4.2	52.4	90.5		
	B42	137.5	247.2	240.6	235.4	4.5	59.4	102.7		
	B45	145.7	261.9	253.6	246.8	5.0	62.4	108.7		
B50	157.9	284.1	275.8	271.3 1)	5.3	67.5	100.3 1)	210	2200	
P2~P3	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	275	2500
	B03	10.8	19.6	14.6	—	1.57	6.30	—		
	B05	17.2	30.9	26.0	16.44	1.70	8.94	17.88		
	B06	21.3	38.3	33.4	21.6	1.78	10.64	21.6		
	B08	26.4	47.4	42.6	30.72	1.89	12.75	26.16		
	B10	34.1	61.3	56.4	44.64	2.06	15.94	33.0		
	B12	37.1	66.7	61.8	50.04	2.11	17.18	35.4		
	B14	46.0	82.7	77.8	66.0	2.30	20.87	43.8		
	B17	58.3	104.8	99.9	88.2	2.55	25.95	54.84		
	B20	63.8	114.7	109.8	98.04	2.66	28.23	59.76		
	B22	70.3	126.4	121.5	109.8 2)	2.80	30.92	60.36 2)		
	B25	79.3	142.5	137.6	—	2.99	34.64	—		
	B28	88.8	159.6	154.7	—	3.18	38.58	—		
B31	100.0	179.7	174.9	—	3.41	43.21	—			

1) 050=210 bar max. int.

2) 022=240 bar max. int.