

① **Series**-SAE B 2 bolts
Mounting flange J744c

② **Use for severe duty shaft only**

③ **Cam ring for " P1 " " P2 "**
Volumetric displacement (cm³/rev)

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	

④ **Type of shaft**

1-Keyed(no SAE)	W version
3-splined (SAE BB)	2-Keyed(SAE BB)
5-splined(SAE B)	

⑤ **Direction of rotation(view on shaft end)**

R=clockwise
L=counter-clockwise

⑥ **Porting combination**
00-standard

⑦ **Design letter**

⑧ **Seal class**

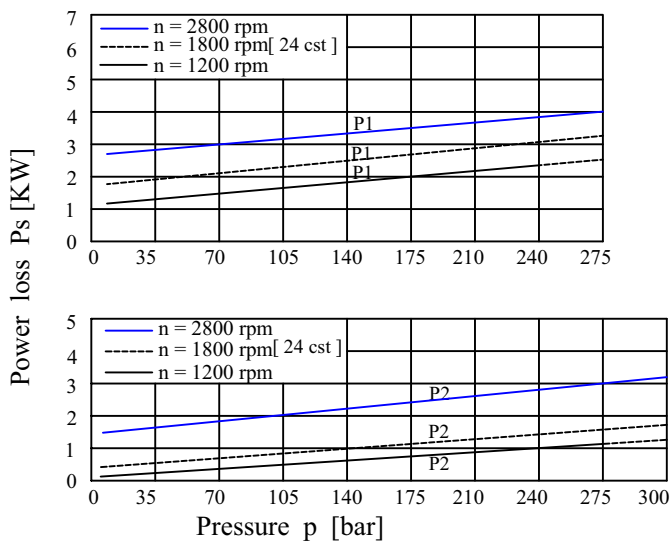
1-S1 (for mineral oil)
4-S4 (for fire resistant fluids)
5-S5 (for mineral oil and fire resistant fluids)

⑨ **Mounting W/connection variables**

P1=1" , P2=3/4" , S=2 1/2"	
Unc	Metric
11	M1

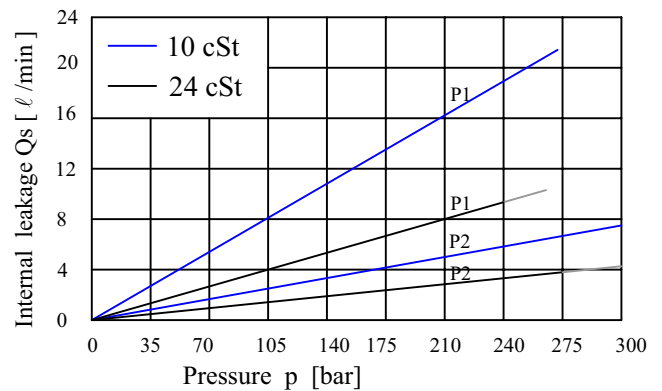
⑩ **Modifications**

HYDROMECHANICAL POWER LOSS (TYPICAL)

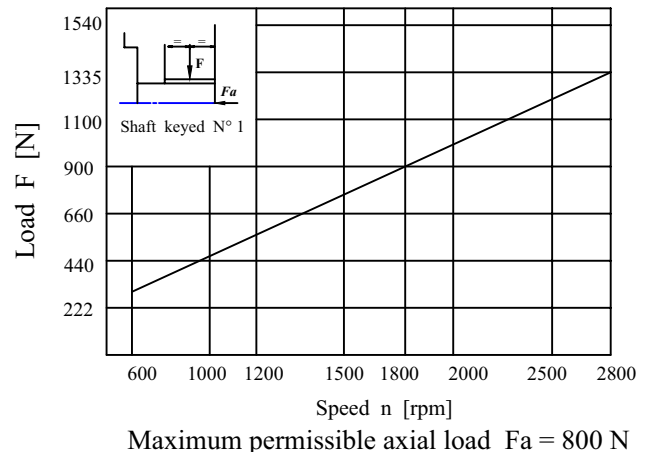


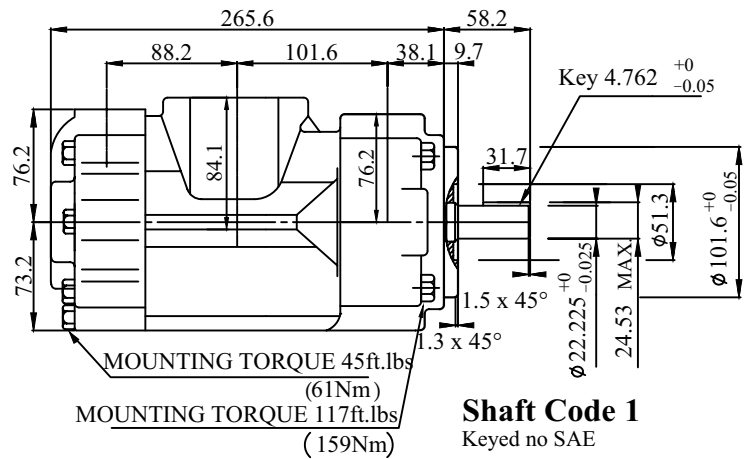
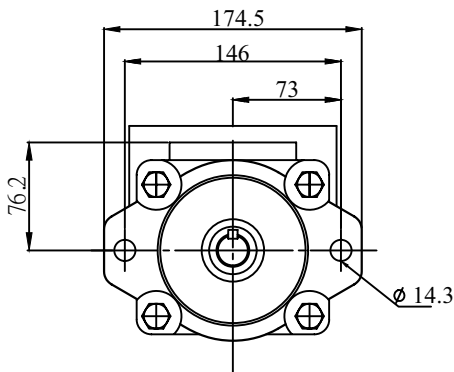
Total hydromechanical power loss is the sum of each section at its operating conditions.

INTERNAL LEAKAGE (TYPICAL)

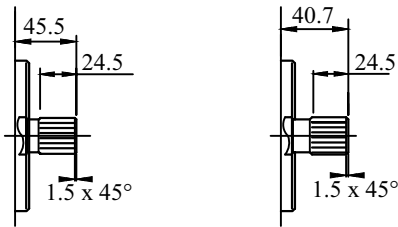


PERMISSIBLE RADIAL LOAD





Shaft Code 1
Keyed no SAE



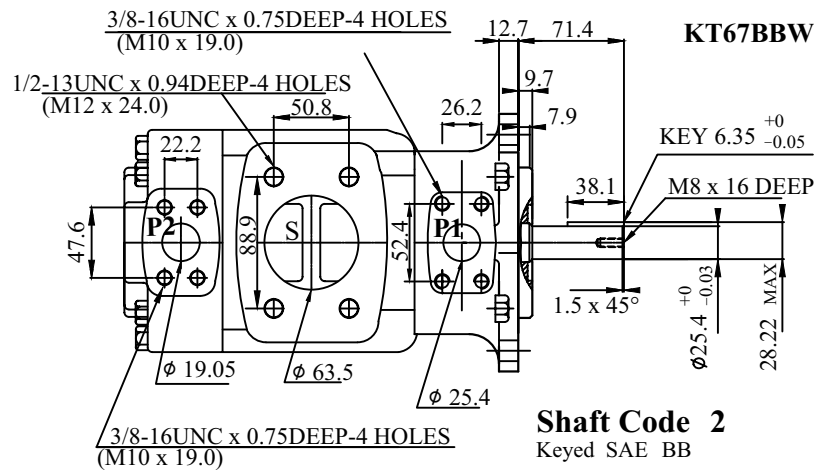
Shaft code 3

SAE BB splined shaft
Class 1-J498 b 16/32dp.
-15 teeth 30° pressure
angle flat root side fit

Shaft code 5

SAE B splined shaft
Class 1-J498 b 16/32dp.
-13 teeth 30° pressure
angle flat root side fit

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.(P1+P2)
KT67BB	1	14300
	2	21420
	3	32670
	5	20600



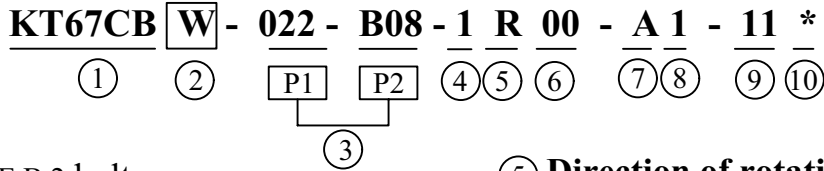
Shaft Code 2
Keyed SAE BB

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

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n=1800 rpm			Input power p & n=1800rpm			P Max Kg/cm ²	Max r.p.m
			(ℓ/min)	(ℓ/min)	(ℓ/min)	(KW)	(KW)	(KW)		
P1 ~ P2		cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2800
	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 1)	1.47	21.28	42.76 1)	280	

1) B15=280 bar max. int.

--Not to use because internal leakage greater than 50% theoretical flow.
Min Speed : 600 rpm



① **Series**-SAE B 2 bolts
Mounting flange J744c

② **Use for severe duty shaft only**

③ **Cam ring for " P1 "**
Volumetric displacement (cm³/rev)

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	

Cam ring for " P2 "

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	

④ **Type of shaft**

1-Keyed(no SAE)	W version
3-splined (SAE BB)	2-Keyed(SAE BB)
5-splined(SAE B)	

⑤ **Direction of rotation(view on shaft end)**
R=clockwise
L=counter-clockwise

⑥ **Porting combination**
00-standard

⑦ **Design letter**

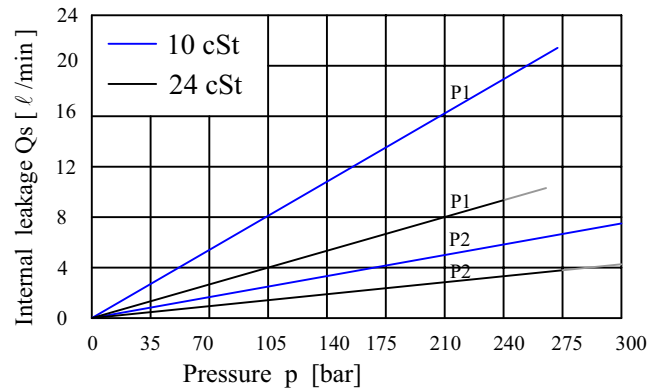
⑧ **Seal class**
1-S1 (for mineral oil)
4-S4 (for fire resistant fluids)
5-S5 (for mineral oil and fire resistant fluids)

⑨ **Mounting W/connection variables**

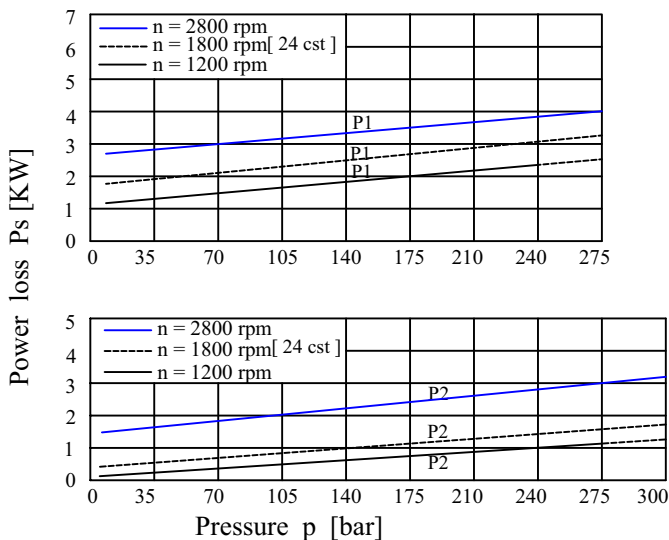
P1=1" , P2=3/4" , S=2 1/2"	
Unc	Metric
11	M1

⑩ **Modifications**

INTERNAL LEAKAGE (TYPICAL)

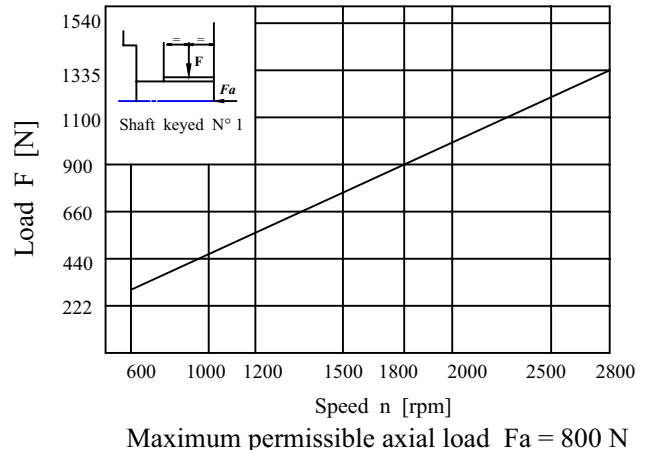


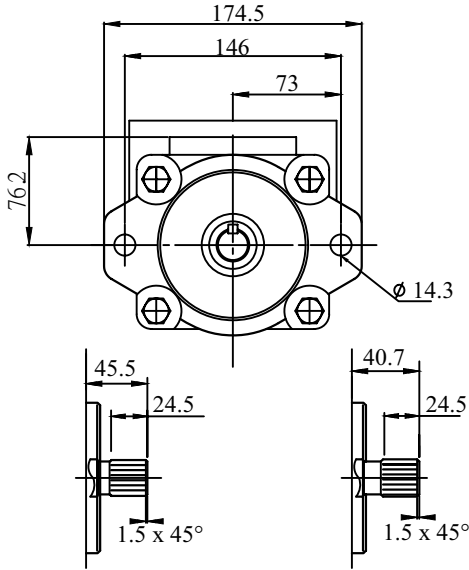
HYDROMECHANICAL POWER LOSS (TYPICAL)



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

PERMISSIBLE RADIAL LOAD

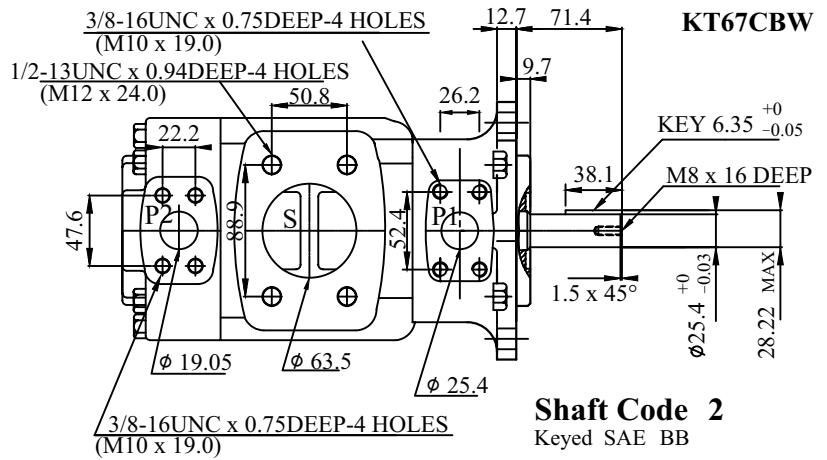
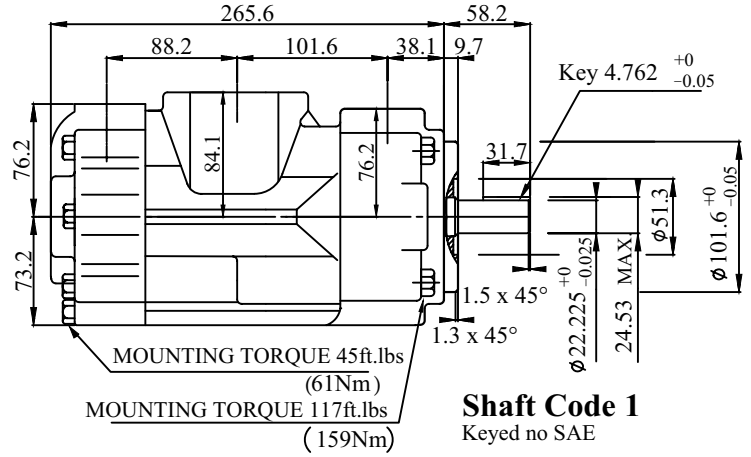




Shaft code 3
SAE BB splined shaft
Class 1-J498 b 16/32dp.
-15 teeth 30° pressure
angle flat root side fit

Shaft code 5
SAE B splined shaft
Class 1-J498 b 16/32dp.
-13 teeth 30° pressure
angle flat root side fit

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.(P1+P2)
KT67CB	1	14300
	2	21420
	3	32670
	5	20600



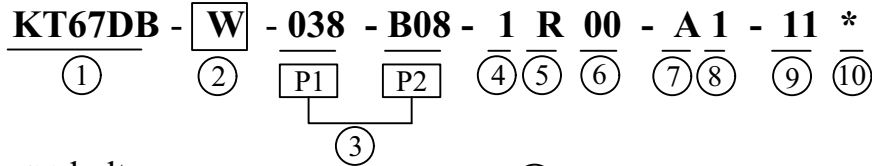
OPERATING CHARACTERISTICS - TYPICAL (24 cST) (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm ³ /rev	Flow q & n=1800 rpm (ℓ/min)			Input power p & n=1800rpm (KW)			P Max Kg/cm ²	Max r.p.m	
			P=0 bar	P=140 bar	P=275 bar	P=7 bar	P=140 bar	P=275 bar			
P1		cm ³ /rev	P=0 bar	P=140 bar	P=275 bar	P=7 bar	P=140 bar	P=275 bar	275	2800	
	003	10.8	19.6	14.6	21.5	1.57	6.30	14.77			
	005	17.2	30.9	26.0	28.8	1.70	8.94	17.74			
	006	21.3	38.3	33.4	37.9	1.78	10.64	21.43			
	008	26.4	47.4	42.6	51.8	1.89	12.75	27.00			
	010	34.1	61.3	56.4	61.8	2.06	15.94	29.18			
	012	37.1	66.7	61.8	73.2	2.11	17.18	35.62			
	014	46.0	82.7	77.8	95.3	2.30	20.87	44.54			
	017	58.3	104.8	99.9	116.9	2.55	25.95	48.52			
	020	63.8	114.7	109.8	133.1	2.66	28.23	53.22			
	022	70.3	126.4	121.5	133.1	2.80	30.92	59.74			
025 1)	79.3	142.5	137.6	152.4 2)	2.99	34.64	57.22 2)	210	2500		
028 1)	88.8	159.6	154.7	172.5 2)	3.18	38.58	64.17 2)				
031 1)	100.0	179.7	174.9		3.41	43.21					
P2	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2800	
	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) 025-028-031=2500 rpm
3) B15=280 bar max. int.

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

--Not to use because internal leakage greater than 50% theoretical flow.
Min Speed : 600 rpm



① **Series**-SAE C 2 bolts
Mounting flange J744c

② **severe duty shaft only**

③ **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 "

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	

④ **Type of shaft**

- 1-Keyed(SAE C) 2-Keyed(no SAE)
- 3-splined (SAE C) 4-splined (no SAE)

KT67DBW only
5-Keyed(no SAE)

⑤ **Direction of rotation (view on shaft end)**
R=clockwise
L=counter-clockwise

⑥ **Porting combination**
00-standard

⑦ **Design letter**

⑧ **Seal class**

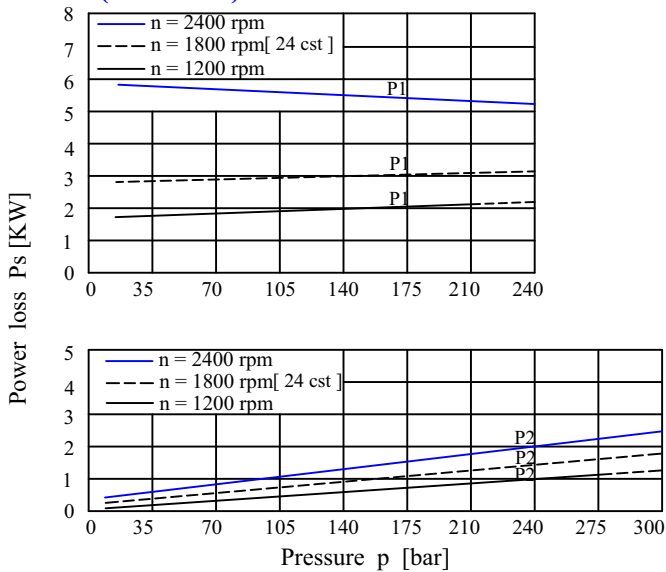
- 1-S1 (for mineral oil)
- 4-S4 (for fire resistant fluids)
- 5-S5 (for mineral oil and fire resistant fluids)

⑨ **Mounting W/connection variables**

P1=1 1/4" , P2=3/4" , S=3"	
Unc	Metric
11	M1

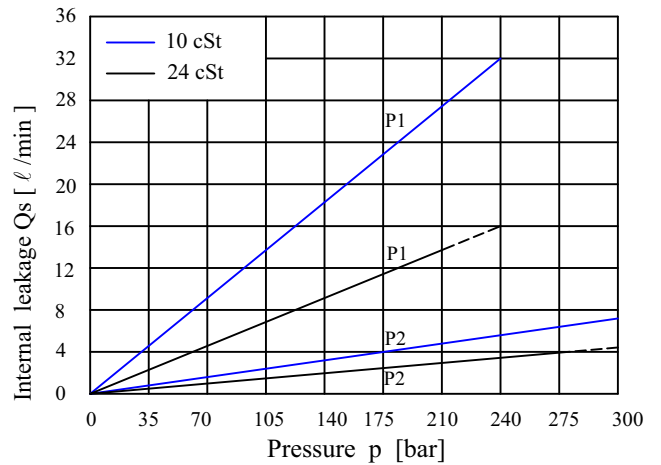
⑩ **Modifications**

HYDROMECHANICAL POWER LOSS (TYPICAL)

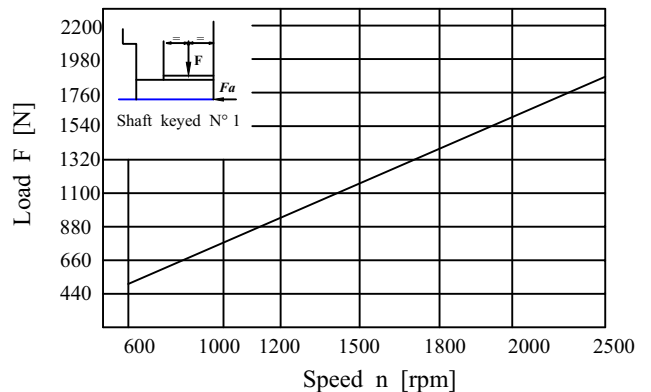


Total hydromechanical power loss is the sum of each section at its operating conditions.

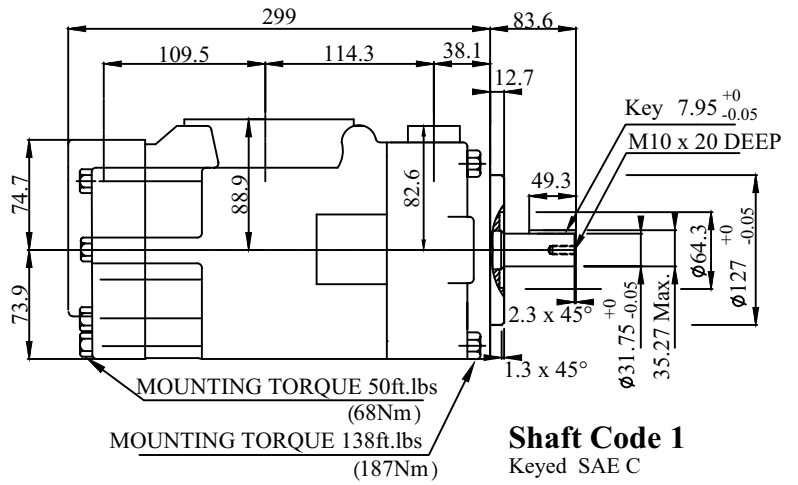
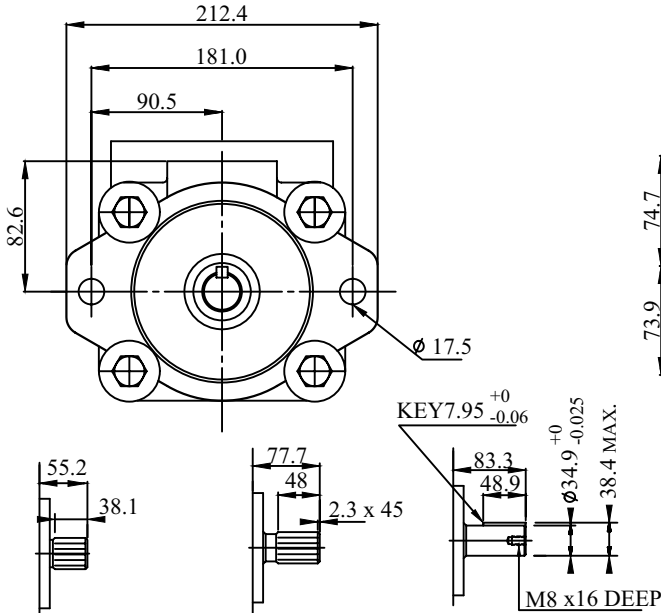
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N

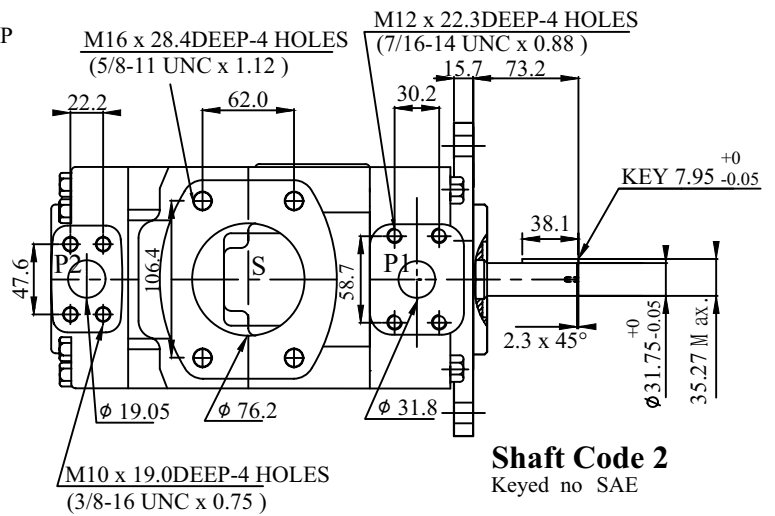


Shaft code 3
SAE C Splined
shaft class 1 -
J498 B 12/24
d.p. -14 teeth
30° pressure
angle. Flat root
side fit.

Shaft code 4
NO SAE Splined
shaft class 1 -
J498 B 12/24
d.p. -14 teeth 30°
pressure angle.
Flat root side fit.

Shaft code 5
Keyed no SAE
KT67DBW

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT67DB	1	43240
	2	34590
	3	61200
	4	61200
	5	55600



Shaft Code 1
Keyed SAE C

Shaft Code 2
Keyed no SAE

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

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n = 1800 rpm (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		cm ³ /rev	P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar	240	2500
	014	47.6	85.0	77.4	71.1	2.99	21.58	36.79		
	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)			
061 1)	190.5	285.8	278.0 3)	—	5.5	72.69 3)	—			
P2	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	5.8	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 4)	1.47	21.28	42.76 4)		

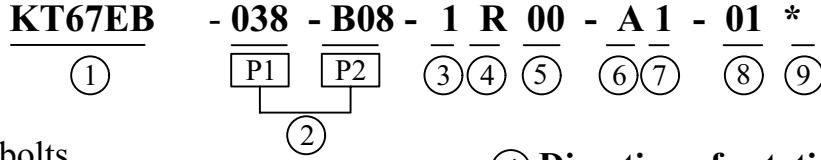
1) 042-045-050-061=2200rpm max.

2) 050=210 bar max. int.

3) 061=120 bar max. int.

Min Speed : 600 rpm

4) B15=280 bar max. int.



① **Series**-SAE C 2 bolts
Mounting flange J744c

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 "

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 (SAE CC)
- 2-Keyed (no SAE)
- 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**

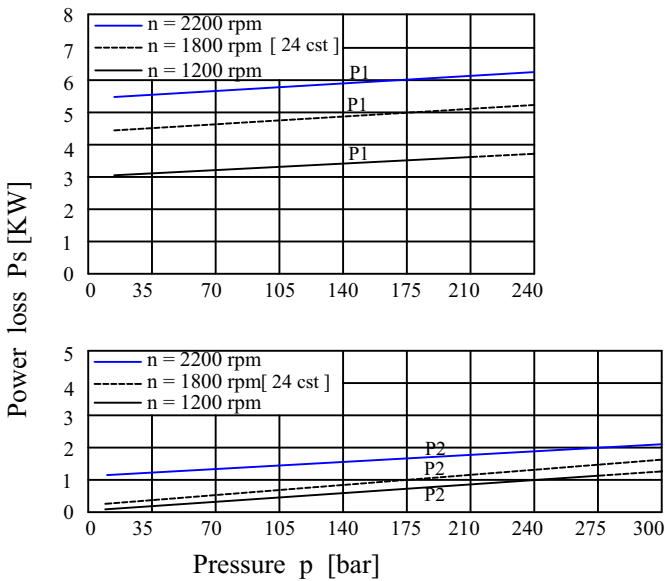
⑦ **Seal class**
1-S1 (for mineral oil)
4-S4 (for fire resistant fluids)
5-S5 (for mineral oil and fire resistant fluids)

⑧ **Mounting W/connection variables**

P1=1" 1/2, P2=4/3", S=3" 1/2	
Unc	Metric
01	M1

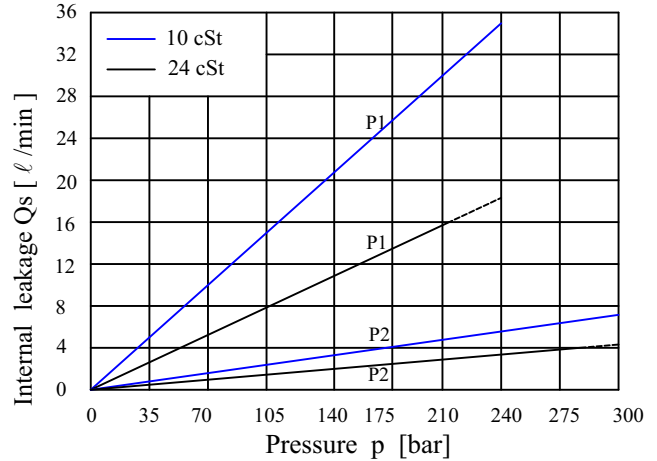
⑨ **Modifications**

HYDROMECHANICAL POWER LOSS (TYPICAL)

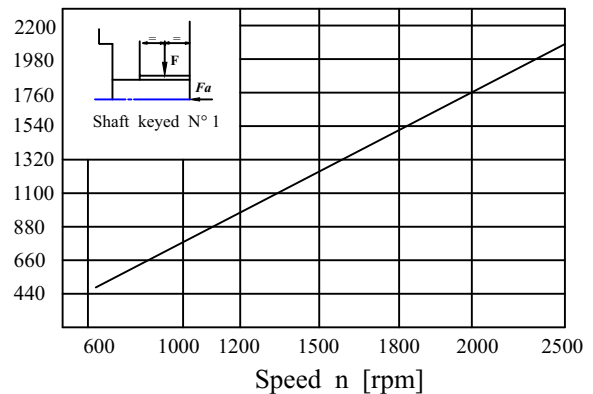


Total hydromechanical power loss is the sum of each section at its operating conditions.

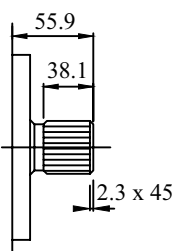
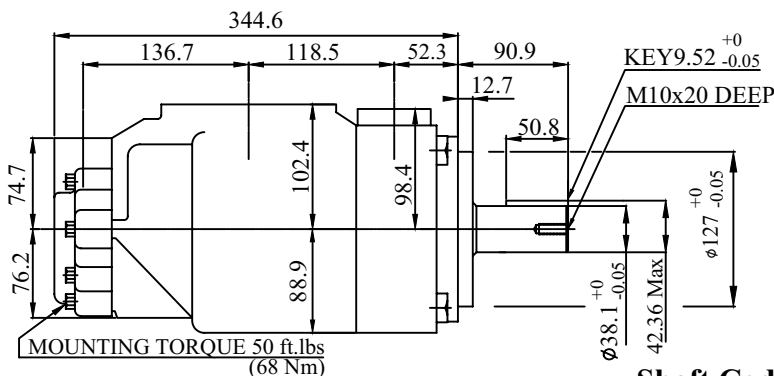
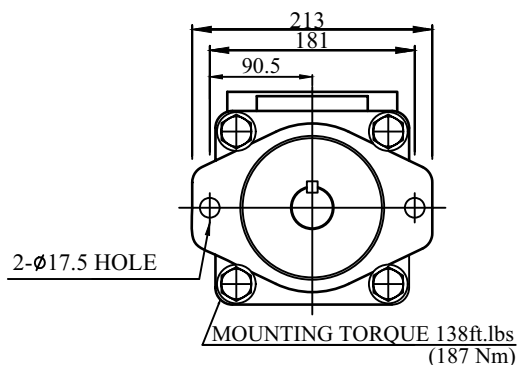
INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD

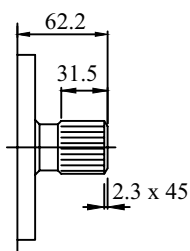


Maximum permissible axial load Fa = 2000 N



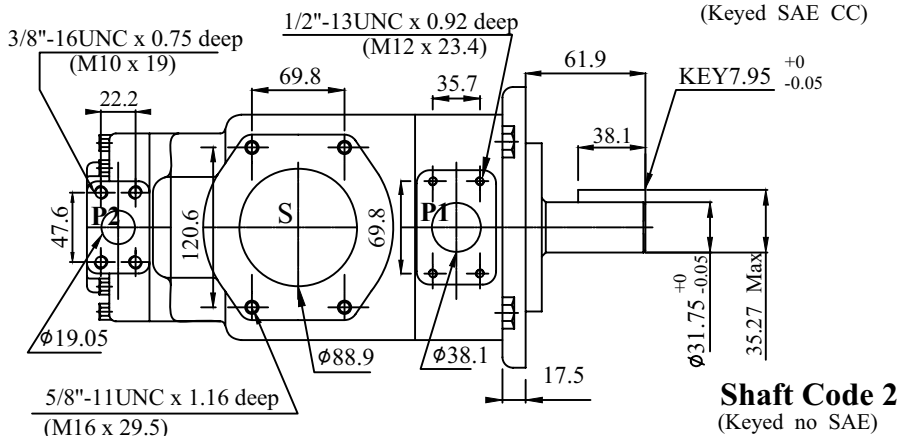
Shaft code 3

SAE C Splined
 shaft class 1 - J498
 b 12/24 dp. -14 teeth
 30° pressure angle. Flat
 root side fit.



Shaft code 4

SAE C - C Splined
 shaft class 1 - J498 b
 12/24 dp. -17 teeth
 30° pressure angle.
 Flat root side fit.



Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT67EB	1	72306
	2	34590
	3	61200
	4	76376

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 =1800 rpm (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		cm ³ /rev	P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar	240	2200
	042	132.3	237.8	228.2	221.2	6.03	58.49	99.78		
	045	142.4	256.0	246.3	239.4	6.24	62.67	107.08		
	050	158.5	285.0	275.3	268.3	6.58	69.3	118.7		
	052	164.8	296.2	286.3	279.6	6.70	71.94	121.31		
	057	180.7	325.3	319.7	304.8	7.0	79.46	141.56		
	062	196.7	353.6	344.0	337.0	7.36	84.00	146.41		
	066	213.3	383.4	373.8	366.8	7.71	92.01	158.43		
	072	227.1	408.2	400.0	391.6	8.0	97.72	168.42		
085 ¹⁾	268.7	483.0	476.7 ²⁾	—	8.7	65.3 ²⁾	—			
P2	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2200
	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⁾		

1) 085=2000rpm max.

2) 085=75 bar cont.
 085=90 bar max. int.

3) B15=280 bar max. int.

Min Speed : 600 rpm