ORDERING CODE - T7E - T7ES SERIES

Model No. T7E or T7ES - 072 - 1 R 00 - A 1 M0 - ..

T7E series - 125 A2 HW
ISO 2 bolts 3019-2 mounting flange
T7ES series - SAE C 2 bolts
Mounting flange J744

Displacement
Volumetric displacement (in^3/rev)
042 = 8.07
045 = 8.70
050 = 9.67
052 = 10.00
054 = 10.43
057 = 11.18
062 = 12.00
066 = 13.00
072 = 13.86
085 = 16.40

Type of shaft T7E - T7ES
5 = keyed (ISO R775 - G38M)

Type of shaft T7ES
1 = keyed (SAE CC)
2 = keyed (non SAE)
3 = splined (SAE C)
4 = splined (SAE CC)

Modifications

Mounting w/connection variables
4 bolts SAE flange (J518)

	Metric thread T7E - T7ES	UNC thread T7ES
	M0	00
P	1" 1/2	
S	3"	

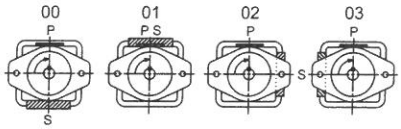
Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

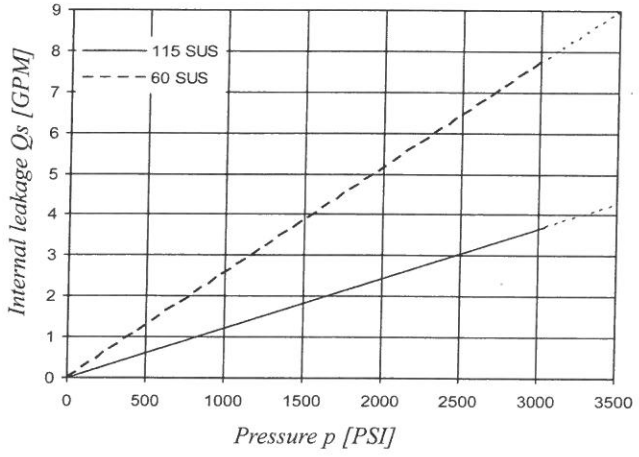
Porting combination
00 = standard

Direction of rotation (view on shaft end)
R = Clockwise
L = Counter-clockwise

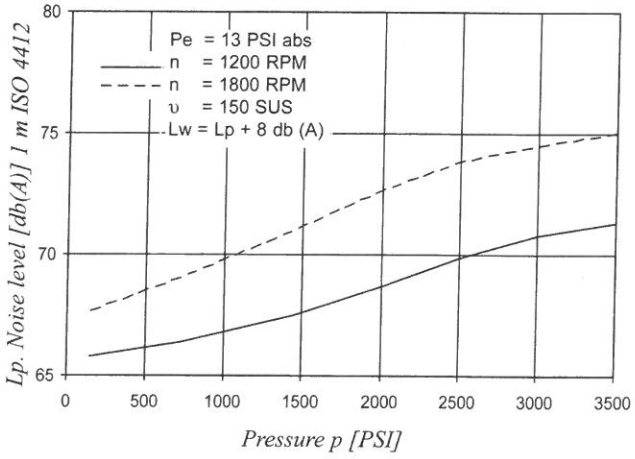
P = pressure port
S = Suction port



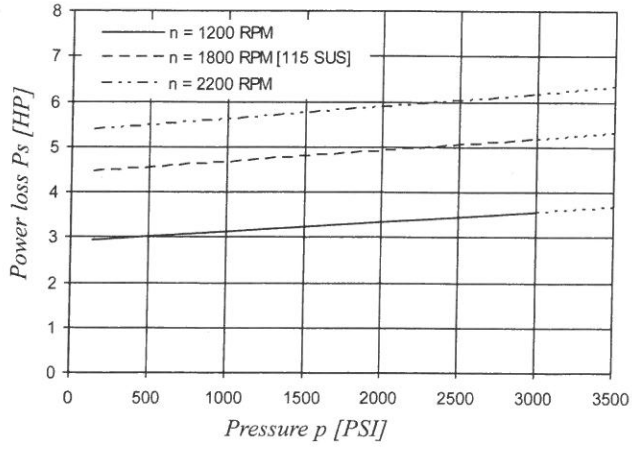
INTERNAL LEAKAGE (TYPICAL)



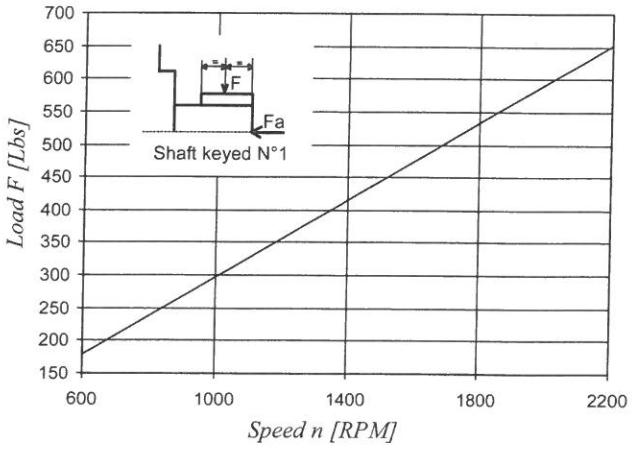
NOISE LEVEL (TYPICAL) T7ES - 050



HYDROMECHANICAL POWER LOSS (TYPICAL)

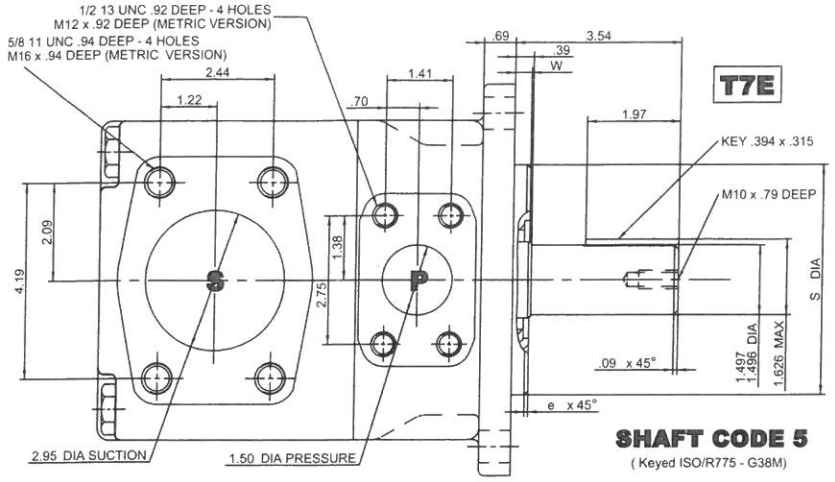


PERMISSIBLE RADIAL LOAD

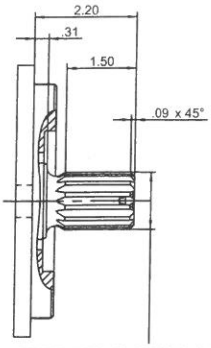


Maximum permissible axial load Fa = 449 Lbs

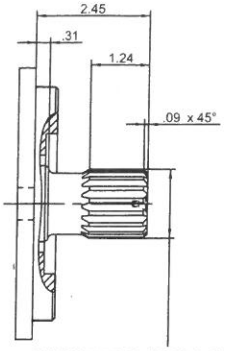
DIMENSIONS - Weight : 95.4 Lbs - T7E - T7ES SERIES



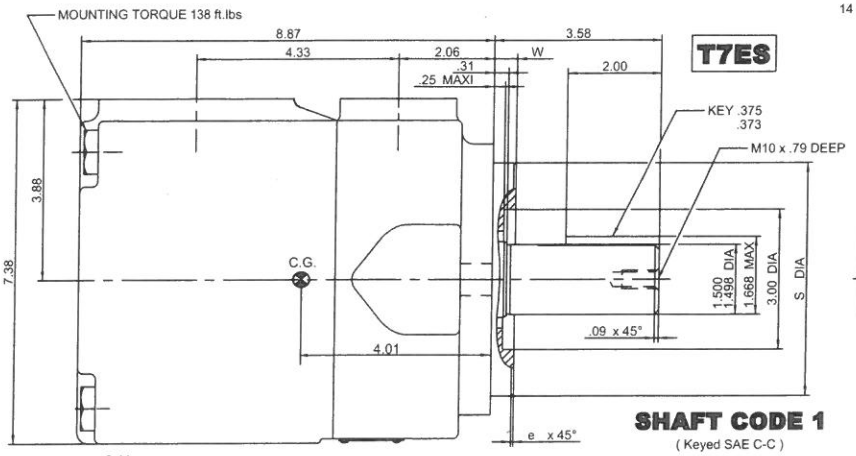
SHAFT CODE 5
(Keyed ISO/R775 - G38M)



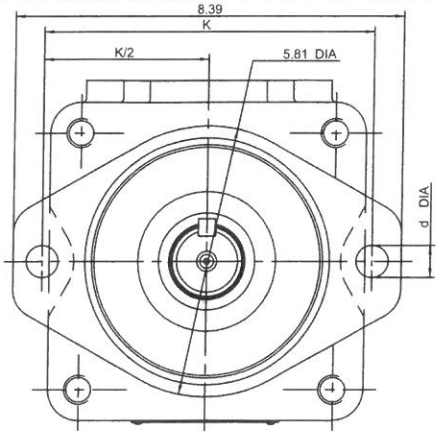
SHAFT CODE 3
SAE C INVOLUTE SPLINE DATA
CLASS 1-FLAT ROOT SIDE FIT
J498b - PITCH 12/24
14 TEETH - 30° PRESSURE ANGLE

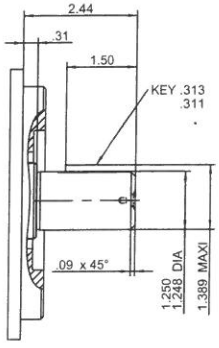


SHAFT CODE 4
SAE CC INVOLUTE SPLINE DATA
CLASS 1-FLAT ROOT SIDE FIT
J498b - PITCH 16/32
17 TEETH - 30° PRESSURE ANGLE



SHAFT CODE 1
(Keyed SAE C-C)





SHAFT CODE 2
(Keyed no SAE)

Shaft torque limits [in³/rev. x PSI]	
Shaft	Vi x p max.
1	48273
2	30638
3	54207
4	54207
5	48273

Alternate mounting flange						
Series	S DIA		e x 45°	W	K	d DIA
	Max.	Min.				
T7E	4.921	4.919	.079	.374	7.087	.709
T7ES	5.000	4.998	.051	.500	7.126	.689

OPERATING CHARACTERISTICS – TYPICAL [115 SUS]

Pressure port	Series	Volumetric displacem. Vi	Flow q_{Ve} [GPM] & n = 1800 RPM			Input power P [HP] & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
T7E T7ES	042	8.07 in³/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in³/rev	67.72	65.17	63.32	8.37	84.04	143.60
	050	9.67 in³/rev	75.38	72.83	70.98	8.82	92.97	159.24
	052	10.00 in³/rev	78.37	75.82	73.97	8.99	96.47	165.36
	054	10.43 in³/rev	81.27	78.72	76.87	9.17	99.75	177.46
	057	11.18 in³/rev	87.12	84.57	82.72	9.51	106.57	189.84
	062	12.00 in³/rev	93.54	90.99	89.14	9.88	114.17	196.34
	066	13.00 in³/rev	101.44	98.89	97.04	10.34	123.38	212.46
	072	13.86 in³/rev	108.00	105.45	103.60	10.72	131.04	225.86
	085	16.40 in³/rev	127.79	126.13 [1)]	-	11.88	101.66 [1)]	-

1) 085 = 1300 PSI max. int.

** special 3"1/2 (3.5 DIA) suction also available – Please contact DENISON Hydraulics.*