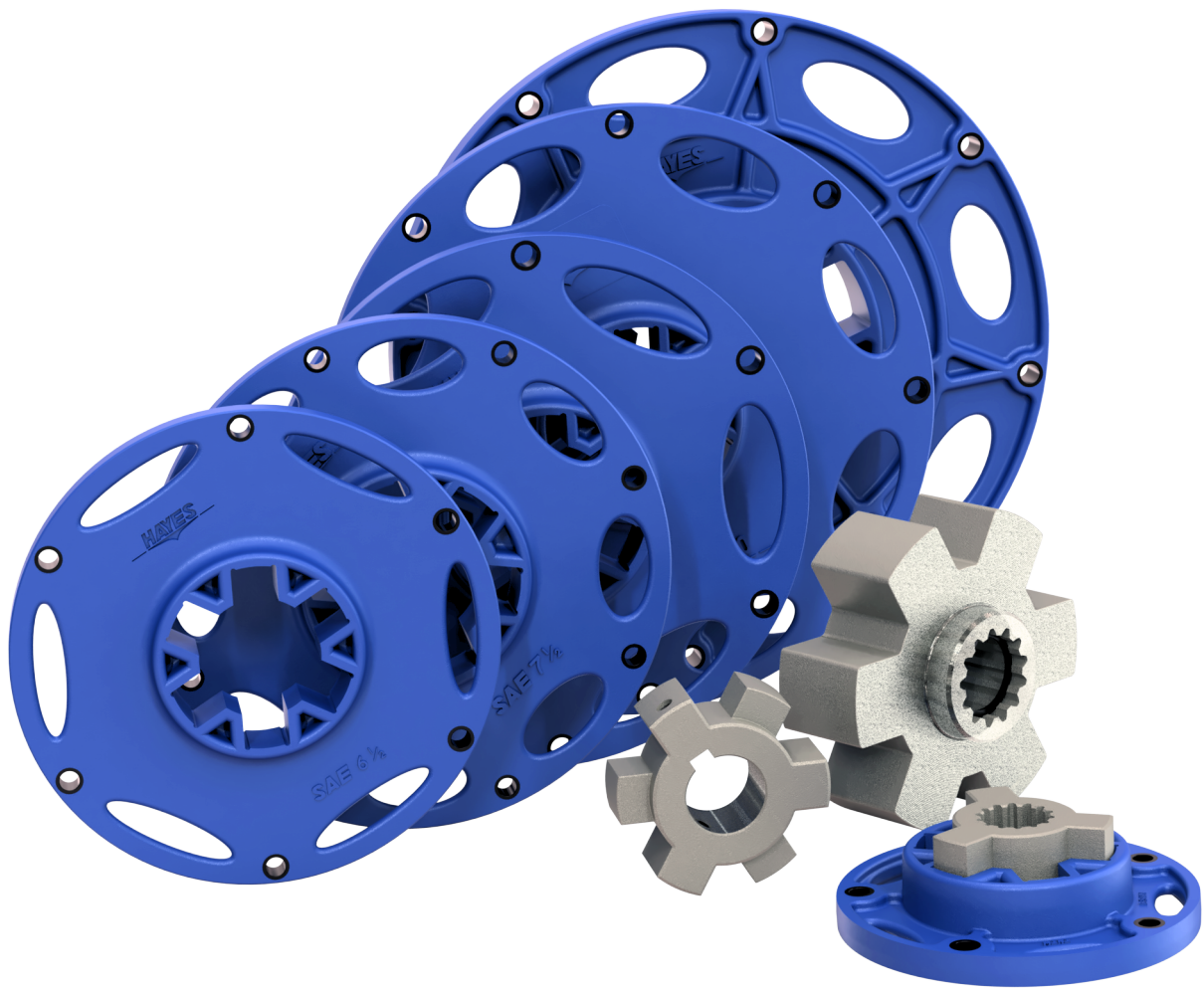


HAYES®



UK Flowtechnik

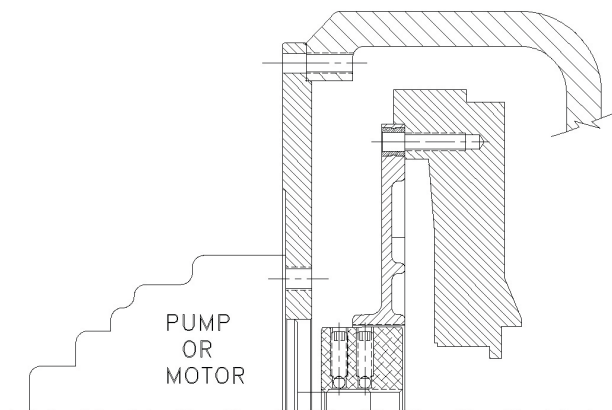
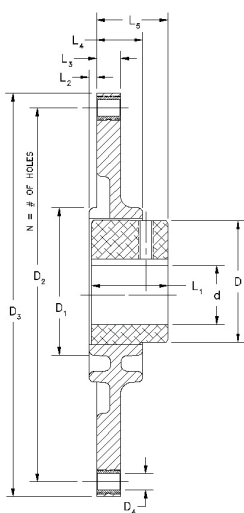
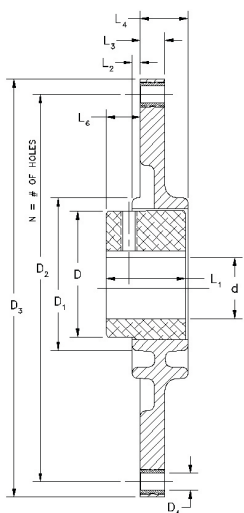
Hayes HEX-FLX Flywheel Couplings



HAYES HEX-FLX FLYWHEEL COUPLING

PRODUCT DESCRIPTION

- High torsional stiffness for operation below critical speeds
- Operating temperatures: -40°C to 104°C
- Light and compact for long service life
- Handles heavy shock loads
- Easy, 2-piece blind mounting
- Customisable sintered steel hub lengths
- Various series for standard SAE flywheels
- Secure locking system to eliminate fretting



SHORT MOUNTING STANDARD MOUNTING

Flange Dimensions (SAE J 620)								
Part number	Size	D3		D2		N	D4	
		Inch	mm	Inch	mm		Inch	mm
B-065	6 1/2	8.500	215.9	7.875	200.025	6	0.343	8.712
C-075	7 1/2	9.500	237.5	8.750	222.25	8	0.343	8.712
C-080	8	10.375	263.525	9.625	244.475	6	0.416	10.566
C-010	10	12.375	314.325	11.625	295.275	8	0.416	10.566
DT-115	11 1/2	13.875	352.425	13.125	333.375	8	0.416	10.566
DT-010	10	12.375	314.325	11.625	295.275	8	0.416	10.566
DT-014	14	18.375	466.725	17.250	438.150	8	0.531	13.487

COUPLING DIMENSIONAL INFORMATION

Size	Finish Bore		Dimensions (mm)								Dimension to SAE					Optimal hub location within
	Max	Min	D	D1	L1	L2	L3	L4	L5	L6	6-1/2	7-1/2	8	10	11-1/2	
HB1	34.925	12.90	51.181	77.725	28.702	4.064	12.7	24.384	25.908	5.512	•					1.016
HB2	34.925	12.90	51.181	77.725	34.29	4.064	12.7	24.384	31.496	11.1	•					1.016
HB3	34.925	12.90	51.181	77.725	40.64	4.064	12.7	24.384	37.846	17.45	•					1.016
HB4	34.925	12.90	51.181	77.725	48.26	4.064	12.7	24.384	45.466	24.675	•					1.016
HC1	50.8	12.90	64.059	106.629	33.782	4.064	12.7	24.384	30.988	10.465		•				1.016
HC1	50.8	12.90	64.059	106.629	33.782	0	12.7	28.702	35.052	6.528			•	•		1.016
HC2	50.8	12.90	64.059	106.629	40.64	4.064	12.7	24.384	37.592	17.45		•				1.016
HC2	50.8	12.90	64.059	106.629	40.64	0	12.7	28.702	41.91	13.386			•	•		1.016
HC3	50.8	12.90	64.059	106.629	44.45	4.064	12.7	24.384	41.402	21.26		•				1.016
HC3	50.8	12.90	64.059	106.629	44.45	0	12.7	28.702	48.26	17.196			•	•		1.016
HC4	50.8	12.90	64.059	106.629	54.102	4.064	12.7	24.384	51.054	30.912		•				1.016
HC4	50.8	12.90	64.059	106.629	54.102	0	12.7	28.702	57.912	26.848			•	•		1.016
HC5	50.8	12.90	64.059	106.629	60.452	4.064	12.7	24.384	57.404	37.262		•				1.016
HC5	50.8	12.90	64.059	106.629	60.452	0	12.7	28.702	64.262	33.198			•	•		1.016
HC6	50.8	12.90	64.059	106.629	61.976	4.064	12.7	24.384	58.928	38.786		•				1.016
HC6	50.8	12.90	64.059	106.629	61.976	0	12.7	28.702	65.786	34.722			•	•		1.016
HDT1	76.2	19.05	97.384	165.1	40.64	8.509	21.082	29.337	33.528	12.319					•	1.016
HDT2	76.2	19.05	97.384	165.1	50.8	8.509	21.082	29.337	43.688	22.606					•	1.016
HDT3	76.2	19.05	97.384	165.1	61.976	8.509	21.082	29.337	54.864	33.655					•	1.016

Size	Finish Bore		Dimensions (inches)								Dimension to SAE					Optimal hub location within
	Max	Min	D	D1	L1	L2	L3	L4	L5	L6	6-1/2	7-1/2	8	10	11-1/2	
HB1	1.375	0.508	2.015	3.109	1.13	0.16	0.50	0.96	1.02	0.217	•					0.04
HB2	1.375	0.508	2.015	3.109	1.35	0.16	0.50	0.96	1.24	0.437	•					0.04
HB3	1.375	0.508	2.015	3.109	1.60	0.16	0.50	0.96	1.49	0.687	•					0.04
HB4	1.375	0.508	2.015	3.109	1.90	0.16	0.50	0.96	1.79	0.987	•					0.04
HC1	2.0	0.508	2.522	4.198	1.33	0.16	0.50	0.96	1.22	0.412		•				0.04
HC1	2.0	0.508	2.522	4.198	1.33	0	0.50	1.13	1.38	0.257			•	•		0.04
HC2	2.0	0.508	2.522	4.198	1.60	0.16	0.50	0.96	1.48	0.687		•				0.04
HC2	2.0	0.508	2.522	4.198	1.60	0	0.50	1.13	1.65	0.527			•	•		0.04
HC3	2.0	0.508	2.522	4.198	1.75	0.16	0.50	0.96	1.63	0.837		•				0.04
HC3	2.0	0.508	2.522	4.198	1.75	0	0.50	1.13	1.90	0.677			•	•		0.04
HC4	2.0	0.508	2.522	4.198	2.13	0.16	0.50	0.96	2.01	1.217		•				0.04
HC4	2.0	0.508	2.522	4.198	2.13	0	0.50	1.13	2.28	1.057			•	•		0.04
HC5	2.0	0.508	2.522	4.198	2.38	0.16	0.50	0.96	2.26	1.467		•				0.04
HC5	2.0	0.508	2.522	4.198	2.38	0	0.50	1.13	2.53	1.307			•	•		0.04
HC6	2.0	0.508	2.522	4.198	2.44	0.16	0.50	0.96	2.32	1.527		•				0.04
HC6	2.0	0.508	2.522	4.198	2.44	0	0.50	1.13	2.59	1.367			•	•		0.04
HDT1	3.0	0.750	3.834	6.500	1.60	0.335	0.83	1.155	1.32	0.485					•	0.04
HDT2	3.0	0.750	3.834	6.500	2.00	0.335	0.83	1.155	1.72	0.890					•	0.04
HDT3	3.0	0.750	3.834	6.500	2.44	0.335	0.83	1.155	2.16	1.325					•	0.04

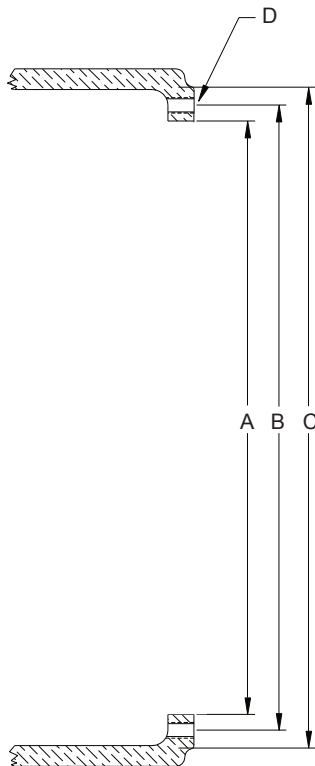
TECHNICAL COUPLING DATA

Size	Torque T (Nm)		General power rating (Kw)	Weight / Mass moment of inertia J		HEX-FLX flanges according to SAE				
	Cont. T _{KN}	Max. T _{KMAX}		Units	Std. bore	6 1/2	7 1/2	8	10	11 1/2
HB1	305.06	494.87	15-56	kg	0.694	0.399	-	-	-	-
				kg cm ²	0.1258	0.555	-	-	-	-
HB2	305.06	494.87	15-56	kg	0.798	0.399	-	-	-	-
				kg cm ²	0.1427	0.555	-	-	-	-
HB3	305.06	494.87	15-56	kg	0.920	0.399	-	-	-	-
				kg cm ²	0.1617	0.555	-	-	-	-
HB4	305.06	494.87	15-56	kg	0.966	0.399	-	-	-	-
				kg cm ²	0.1758	0.555	-	-	-	-
HC1	793.15	1525.3	56-149	kg	1.093	-	0.508	0.531	0.739	-
				kg cm ²	0.2693	-	0.942	1.102	2.180	-
HC2	793.15	1525.3	56-149	kg	1.284	-	0.508	0.531	0.739	-
				kg cm ²	0.3101	-	0.942	1.102	2.180	-
HC3	793.15	1525.3	56-149	kg	1.383	-	0.508	0.531	0.739	-
				kg cm ²	0.3318	-	0.942	1.102	2.180	-
HC4	793.15	1525.3	56-149	kg	1.637	-	0.508	0.531	0.739	-
				kg cm ²	0.3867	-	0.942	1.102	2.180	-
HC5	793.15	1525.3	56-149	kg	1.805	-	0.508	0.531	0.739	-
				kg cm ²	0.4225	-	0.942	1.102	2.180	-
HC6	793.15	1525.3	56-149	kg	1.9187	-	0.508	0.531	0.739	-
				kg cm ²	0.4479	-	0.942	1.102	2.180	-
HDT1	1762.57	4474.21	149-447	kg	3.574	-	-	-	-	1.329
				kg cm ²	2.1268	-	-	-	-	-
HDT2	1762.57	4474.21	149-447	kg	4.205	-	-	-	-	1.329
				kg cm ²	2.4825	-	-	-	-	-
HDT3	1762.57	4474.21	149-447	kg	4.559	-	-	-	-	1.329
				kg cm ²	2.8186	-	-	-	-	-

Size	Torque T (ft.lbs)		General power rating (HP)	Weight / Mass moment of inertia J		HEX-FLX flanges according to SAE				
	Cont. T _{KN}	Max. T _{KMAX}		Units	Std. bore	6 1/2	7 1/2	8	10	11 1/2
HB1	225	365	20-75	lbs	1.53	0.88	-	-	-	-
				lb in ²	1.79	7.89	-	-	-	-
HB2	225	365	20-75	lbs	1.76	0.88	-	-	-	-
				lb in ²	2.03	7.89	-	-	-	-
HB3	225	365	20-75	lbs	2.03	0.88	-	-	-	-
				lb in ²	2.30	7.89	-	-	-	-
HB4	225	365	20-75	lbs	2.13	0.88	-	-	-	-
				lb in ²	2.50	7.89	-	-	-	-
HC1	585	1125	75-200	lbs	2.41	-	1.12	1.17	1.63	-
				lb in ²	3.83	-	13.4	15.67	31.01	-
HC2	585	1125	75-200	lbs	2.83	-	1.12	1.17	1.63	-
				lb in ²	4.41	-	13.4	15.67	31.01	-
HC3	585	1125	75-200	lbs	3.05	-	1.12	1.17	1.63	-
				lb in ²	4.72	-	13.4	15.67	31.01	-
HC4	585	1125	75-200	lbs	3.61	-	1.12	1.17	1.63	-
				lb in ²	5.50	-	13.4	15.67	31.01	-
HC5	585	1125	75-200	lbs	3.98	-	1.12	1.17	1.63	-
				lb in ²	6.01	-	13.4	15.67	31.01	-
HC6	585	1125	75-200	lbs	4.23	-	1.12	1.17	1.63	-
				lb in ²	6.37	-	13.4	15.67	31.01	-
HDT1	1300	3300	200-600	lbs	7.88	-	-	-	-	2.93
				lb in ²	30.25	-	-	-	-	-
HDT2	1300	3300	200-600	lbs	9.27	-	-	-	-	2.93
				lb in ²	35.31	-	-	-	-	-
HDT3	1300	3300	200-600	lbs	10.05	-	-	-	-	2.93
				lb in ²	40.09	-	-	-	-	-

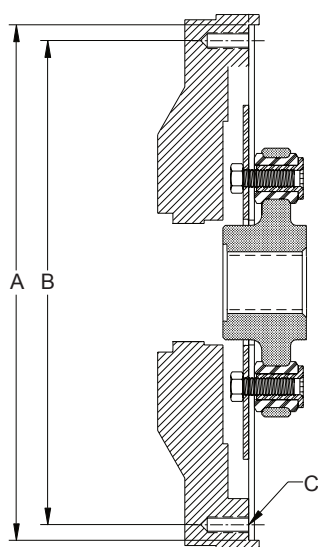
STANDARD SAE FLYWHEEL COUPLING AND PUMP MOUNT

SAE FLYWHEEL HOUSING PUMP MOUNTING PLATE



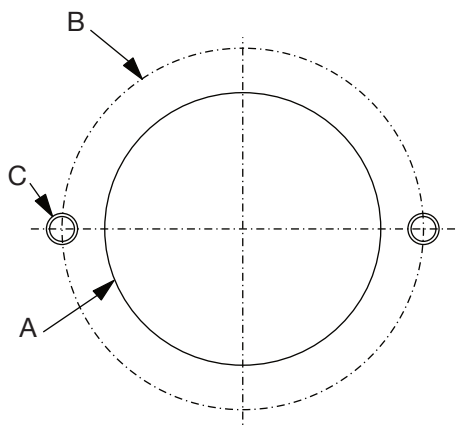
Housing size	A		B		C		Plate thickness		D	
	Inner diameter		Pitch circle		Outer diameter				#D	Size (inch)
	mm	inch	mm	inch	mm	inch	mm	inch		
1	511.175	20.125	530.225	20.875	552.45	21.750	25.4	1	12	31/64
1	511.175	20.125	530.225	20.875	552.45	21.750	15.875	5/8	12	31/64
2	447.675	17.625	466.725	18.375	488.950	19.250	25.4	1	12	27/64
2	447.675	17.625	466.725	18.375	488.950	19.250	15.875	5/8	12	27/64
3	409.575	16.125	428.625	16.875	450.85	17.750	15.875	5/8	12	27/64
4	361.950	14.250	381.000	15.000	403.352	15.880	15.875	5/8	12	27/64
5	314.325	12.375	333.502	13.130	255.600	14.000	15.875	5/8	8	27/64
6	266.700	10.500	285.750	11.250	307.848	12.120	15.875	5/8	8	27/64

SAE FLYWHEEL PLATE

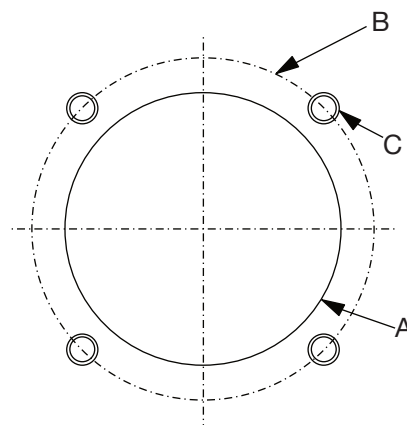


SAE Flywheel size J620	A		B		C	
	Outer diameter		Pitch circle		#C	Size
	mm	inch	mm	inch		inch
6 1/2	215.875	8.499	200.025	7.875	6	0.343
7 1/2	240.005	9.499	222.250	8.750	8	0.343
8	263.500	10.374	244.475	9.625	6	0.406
10	314.300	12.374	295.275	11.625	8	0.406
11 1/2	352.400	13.874	333.375	13.125	8	0.406
14	466.725	18.375	438.150	17.250	8	0.531
16	517.525	20.375	488.950	19.250	8	0.531

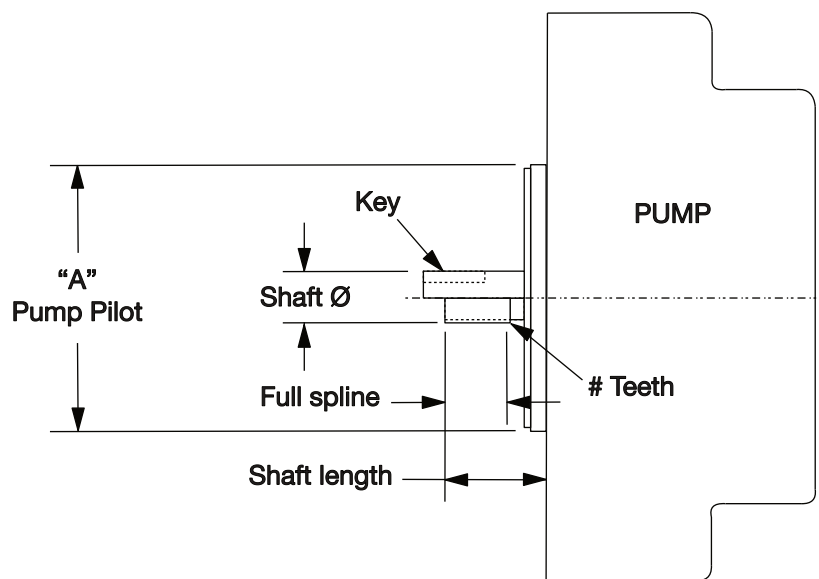
STANDARD SAE PUMP INFORMATION



2-BOLT PUMP FACE

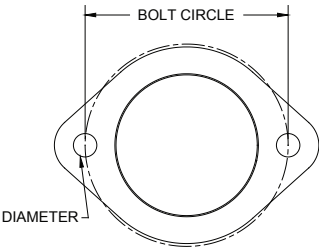


4-BOLT PUMP FACE



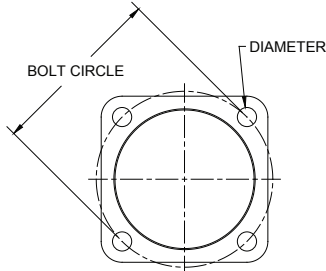
Pump mount flange and shaft size SAE J744C	2-Bolt pump				4-Bolt pump				Shaft dimensions			
	A	B	Counter bore Ø	C	A	B	Counter bore Ø inch (mm)	C	Spline	Spline shaft length inch (mm)	Bore & key inch (mm)	Bore & key shaft length inch (mm)
	Bore Ø inch (mm)	Pitch circle inch (mm)		Tapped holes	Bore Ø inch (mm)	Pitch circle inch (mm)		Tapped Holes				
AA	2.000	3.250	7.000	5/16-18	-	-	-	-	9T 20/40	1.060	1/2 - 1/8	1.060
	(50.8)	(82.55)	(177.8)		-	-	-	-		(26.92)	(12.7 - 3.18)	(26.92)
A	3.250	4.187	7.000	3/8-16	-	-	-	-	9T 16/32	1.248	5/8 - 5/32	1.248
	(82.55)	(106.35)	(177.8)		-	-	-	-		(31.7)	(15.88- 3.97)	(31.7)
AH	3.250	4.187	7.000	3/8-16	-	-	-	-	11T 16/32	1.490	3/4 - 3/16	1.248
	(82.55)	(106.35)	(177.8)		-	-	-	-		(37.85)	(19.05 - 4.76)	(1.248)
B	4.000	5.750	10.500	1/2-13	4.000	5.000	10.500	1/2-13	13T 16/32	1.622	7/8 - 1/4	1.622
	(101.6)	(146.05)	(266.7)		(101.6)	(127.0)	(266.7)			(41.2)	(22.23 - 6.35)	(41.2)
BB	4.000	5.750	10.500	1/2-13	4.000	5.000	10.500	1/2-13	15T 16/32	1.810	1 - 1/4	1.810
	(101.6)	(146.05)	(266.7)		(101.6)	(127.0)	(266.7)			(45.97)	(25.4 - 6.35)	(45.97)
C	5.000	7.125	12.500	5/8-11	5.000	6.375	12.500	1/2-13	14T 12/24	2.185	1 1/4 - 5/16	2.185
	(127)	(180.98)	(317.5)		(127.0)	(161.93)	(317.5)			(55.5)	(31.75 - 7.94)	(55.5)
CC	5.00	7.125	12.500	5/8-11	5.000	6.375	12.500	1/2-13	17T 12/24	2.435	1 1/2 - 3/8	2.435
	(127.0)	(180.98)	(317.5)		(127.0)	(161.93)	(317.5)			(61.85)	(38.1 - 9.53)	(61.85)
D	6.000	9.000	14.000	3/4-10	6.000	9.000	14.000	3/4-10	13T 8/16	2.935	1 3/4 - 7/16	2.935
	(152.4)	(228.6)	(355.6)		(152.4)	(228.6)	(355.6)			(74.55)	(44.45 - 11.11)	(74.55)
E	6.500	12.500	16.000	1-8	6.500	12.500	16.000	3/4-10	13T 8/16	2.935	1 3/4 - 7/16	2.935
	(165.1)	(317.5)	(406.4)		(165.1)	(317.5)	(406.4)			(74.55)	(44.45 - 11.11)	(74.55)
F	7.000	13.781	18.000	1-8	7.000	13.781	18.000	1-8	15T 8/16	3.435	-	-
	(177.8)	(350.04)	(457.2)		(177.8)	(350.04)	(457.2)			(87.25)	-	-

ENGINE COUPLING REQUEST FORM



2-BOLT PUMP FACE

BOLT CIRCLE _____
DIAMETER _____



4-BOLT PUMP FACE

FLYWHEEL DATA

PILOT DIA _____
BOLT CIRCLE _____
OF HOLES _____

FLYWHEEL HOUSING DATA

PILOT DIA _____
BOLT CIRCLE _____
O.D. _____
OF HOLES _____

FLYWHEEL TO HOUSING

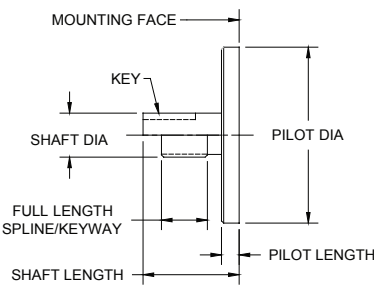
BACKSET _____

STANDARD DATA

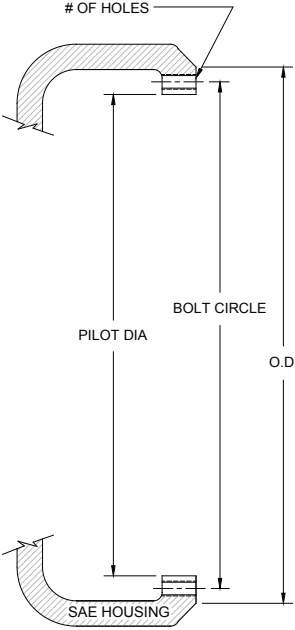
PILOT DIA _____
SHAFT DIA _____
SHAFT LENGTH _____
FULL KEY/SPLINE LENGTH _____
PILOT LENGTH _____

SPLINE DATA

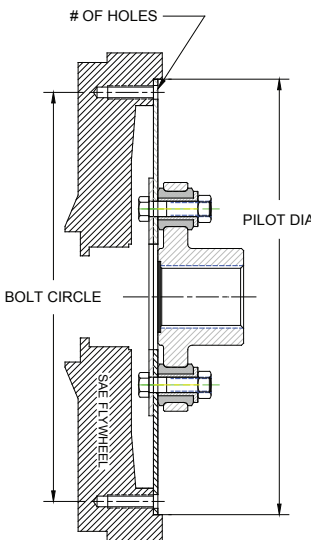
OF TEETH _____
D.P. _____
P.A. _____



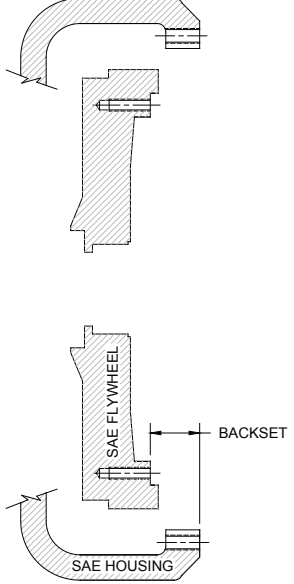
PUMP SHAFT INFORMATION



SAE HOUSING



SAE FLYWHEEL



SAE FLYWHEEL