

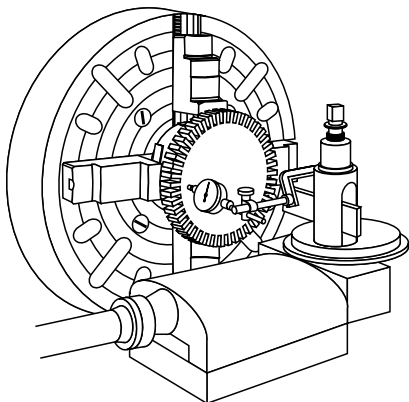


Figure 1

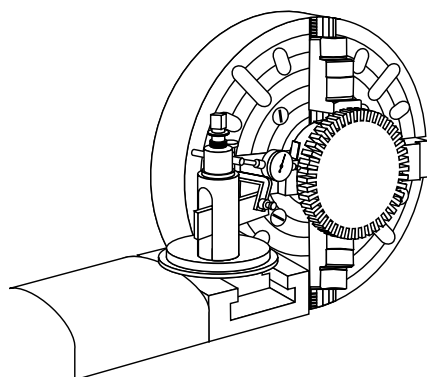


Figure 2

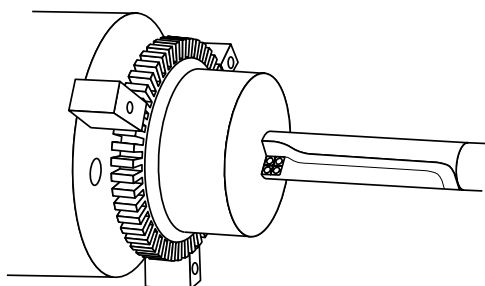


Figure 3

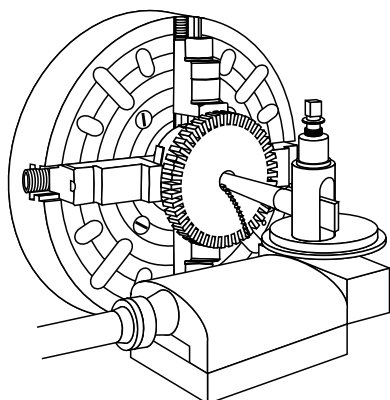


Figure 4

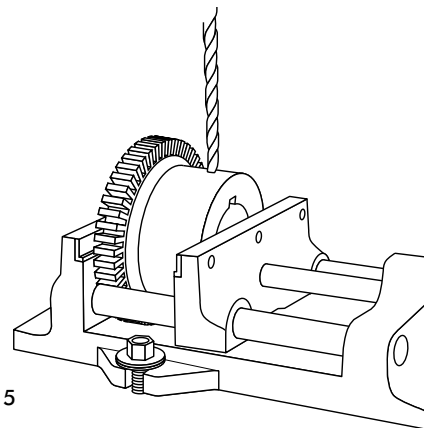


Figure 5

Boring Instructions for Steel Hubs

Refer to the appropriate selection guide for coupling hub minimum and maximum bores. **IMPORTANT:** Maximum bores are LESS for INTERFERENCE FIT bored hubs with a setscrew OVER the keyway. Refer to Engineering 427-105 for allowable bores. Use the following procedure for reboring Falk couplings with STEEL hubs. To avoid damage to hub, use brass sheet between chuck jaws and hub.

1. Chuck hub and indicate on face for runout (Fig. 1); refer to hub types on Page 2. Do not exceed runout shown in Table 1.
2. Indicate on diameter for runout (Fig. 2) as shown in applicable drawing on Page 2. Do not exceed runout shown in Table 1. Tighten jaws and recheck runout on face and diameter.
3. Falk recommends the use of a spade drill for quick stock removal from solid hubs. (Figure 3.)
4. For heavy cuts, use a large boring bar (Fig. 4). After taking heavy cuts, recheck the runout on face and diameter per Steps 1 and 2. Finish bore per Table 3 on Page 2 and chamfer per Table 2 below.
5. Machine keyway to recommended size and tolerance listed per Table 4 on Page 3.

TABLE 1 — Hub Setup Runout Tolerances — In

Bore Diameter		Runout Tolerance (TIR)
Over	To and Including	
.....	6.0000	.001
6.0000	12.0000	.002
12.0000	20.0000	.003
20.0000	30.0000	.004
30.0000	40.0000	.005

TABLE 2 — Bore Chamfers — Inches

Bore Diameter	Chamfer + .030 - .000
Up to 2.000	.030 x 45°
Over 2.000 - 3.000	.060 x 45°
Over 3.000 - 7.500	.090 x 45°
Over 7.500	.120 x 45°

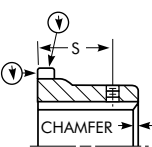
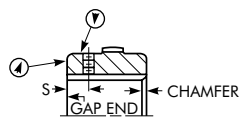
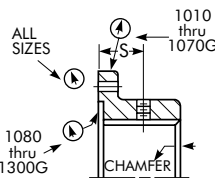
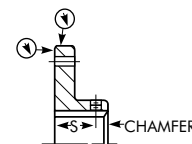
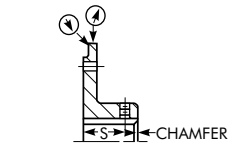
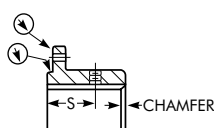
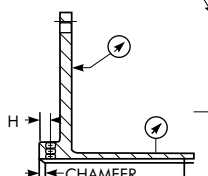
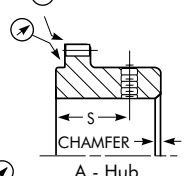
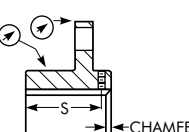
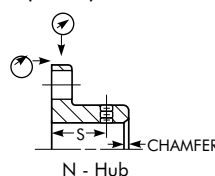
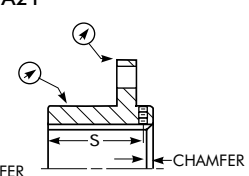
Steel Hubs

TABLE 3 — Recommended Bores for Steel Hubs — Inches

Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Interference Fit	
	Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Interference
+ .0000 — .0005	+ .0010 — .0000	.0000 .0015	+ .0005 — .0000	.0000 .0010	+ .0000 — .0010	+ .0015 — .0000	.0000 .0025	+ .0010 — .0000	.0000 .0020	+ .0000 — .0010	+ .0015 — .0000	.0000 .0025	+ .0015 — .0000	.0010 .0035	+ .0000 — .0010	+ .0015 — .0000	.0015 .0040
.5000	.5000		.4990		2.2500	2.2500		2.2480		4.0625	4.0625		4.0590		6.7500	6.7460	
.5625	.5625		.5615		3.3125	2.3125		2.3105		4.1250	4.1250		4.1215		7.0000	6.9960	
.6250	.6250		.6240		2.3750	2.3750		2.3730		4.1875	4.1875		4.1840		+ .0000 — .0010	+ .0020 — .0000	.0020 .0050
.6875	.6875		.6865		2.4375	2.4375		2.4355		4.2500	4.2500		4.2465		7.250	7.2450	
.7500	.7500		.7490		2.5000	2.5000		2.4980		4.3125	4.3125		4.3090		7.500	7.4950	
.8125	.8125		.8115		2.5625	2.5625		2.5605		4.3750	4.3750		4.3715		7.750	7.7450	
.8750	.8750		.8740		2.6250	2.6250		2.6230		4.4375	4.4375		4.4340		8.000	7.9950	
.9375	.9375		.9365		2.6875	2.6875		2.6855		4.5000	4.5000		4.4965		8.250	8.2445	.0025
1.0000	1.0000		.9990		2.7500	2.7500		2.7480		4.5625	4.5625		4.5590		8.500	8.4945	.0055
1.0625	1.0625		1.0615		2.8125	2.8125		2.8105		4.6250	4.6250		4.6215		9.000	8.9945	
1.1250	1.1250		1.1240		2.8750	2.8750		2.8730		4.6875	4.6875		4.6840		9.250	9.2440	.0030
1.1875	1.1875		1.1865		2.9375	2.9375		2.9355		4.7500	4.7500		4.7465		9.500	9.4940	.0060
1.2500	1.2500		1.2490		3.0000	3.0000		2.9980		5.0000	5.0000		4.9965		10.000	9.9940	
1.3125	1.3125		1.3115		+ .0000 — .0010	+ .0015 — .0000	.0000 .0025	+ .0010 — .0000	.0005 .0025	5.0625	5.0625		5.0585	.0015 .0040	10.250	10.2435	.0035
1.3750	1.3750		1.3740		3.0625	3.0625		3.0600		5.1250	5.1250		5.1210		10.500	10.4935	.0065
1.4375	1.4375		1.4365		3.1250	3.1250		3.1225		5.1875	5.1875		5.1835		11.000	10.9935	
1.5000	1.5000		1.4990		3.1875	3.1875		3.1850		5.2500	5.2500		5.2460		11.250	11.2430	.0040
+ .0000 — .0010	+ .0010 — .0000	.0000 .0020	+ .0005 — .0000	.0000 .0015	3.3125	3.3125		3.3100		5.3125	5.3125		5.3085		11.500	11.4930	.0070
1.5625	1.5625		1.5610		3.3750	3.3750		3.3725		5.3750	5.3750		5.3710		11.750	11.7430	
1.6250	1.6250		1.6235		3.4375	3.4375		3.4350		5.4375	5.4375		5.4335		12.000	11.9930	
1.6875	1.6875		1.6860		3.5000	3.5000		3.4975		5.5000	5.5000		5.4960		12.500	12.4925	.0045
1.7500	1.7500		1.7485		3.5625	3.5625		3.5600		5.5625	5.5625		5.5585		13.000	12.9925	.0075
1.8125	1.8125		1.8110		3.6250	3.6250		3.6225		5.6250	5.6250		5.6210		13.500	13.4920	.0050
1.8750	1.8750		1.8735		3.6875	3.6875		3.6850		5.6875	5.6875		5.6835		14.000	13.9920	.0080
1.9375	1.9375		1.9360		3.7500	3.7500		3.7475		5.7500	5.7500		5.7460		14.500	14.4915	.0055
2.0000	2.0000		1.9985		3.8125	3.8125		3.8100		5.8125	5.8125		5.8085		15.000	14.9915	.0085
+ .0000 — .0010	+ .0015 — .0000	.0000 .0025	+ .0005 — .0000	.0000 .0015	3.8750	3.8750		3.8725		5.8750	5.8750		5.8710		+ .000 — .001	+ .0025 — .0000	.0055 .0090
2.0625	2.0625		2.0610		3.9375	3.9375		3.9350		6.0000	6.0000		5.9960		15.500	15.4910	
2.1250	2.1250		2.1235		4.0000	4.0000		3.9975		6.2500	6.2500		6.2460		16.000	15.9910	
2.1875	2.1875		2.1860							6.5000	6.5000		6.4960		16.500	16.4905	.0060
															17.000	16.9905	.0095

★ For shaft diameters larger than 17.000", use an average interference fit of .0005" per inch of shaft diameter within the following bore tolerances:
 +.0025, —.0000 for over 17" to 20" dia. incl.
 +.003, —.000 for over 20" to 30" dia. incl.
 +.004, —.000 for over 30" to 40" dia. incl.
 Tolerances and fits comply with, or are within, AGMA 9002-A86 standard (Class 1 clearance fit.).

DATUM SURFACES & SETSCREW LOCATIONS


TYPE T & F

TYPE G (FLEX)

TYPE G (RIGID)

SIZES 1020-1070

SIZES 1080-1160

TYPE T31 SHAFT HUB

TYPE T41

TYPE FD

**TYPE FDC
10, 11, & 12**

**TYPE FDC
20, 21, & 22**

NOTE: See right hand column for proper keyway location for FD Disc Coupling with type "N" hubs and FDC disc coupling hubs.

6. If a setscrew is required, drill and tap over keyway (Fig. 4) per Tables 5, 6, 7, 8, and 9 on Pages 3, 4, and 5. Do not chamfer setscrew hole, deburr with a file.
7. For optional puller bolt holes, for all types of couplings, see Tables 10 thru 19 on Pages 6 thru 8.

TABLE 4 — Recommended Keyways for Hubs with One Keyway — Inches

Nominal Bore		Keyway Size ★	Width Tolerance †
Over	Thru		
.4375	.5625	.125 x .062	+.0020 -.0000
.5625	.875	.1875 x .094	+.0020 -.0000
.875	1.250	.250 x .125	+.0020 -.0000
1.250	1.375	.3125 x .156	+.0020 -.0000
1.375	1.750	.375 x .188	+.0025 -.0000
1.750	2.250	.500 x .250	+.0025 -.0000
2.250	2.750	.625 x .312	+.0030 -.0000
2.750	3.250	.750 x .375	+.0030 -.0000
3.250	3.750	.875 x .438	+.0030 -.0000
3.750	4.500	1.000 x .500	+.0030 -.0000
4.500	5.500	1.250 x .625	+.0035 -.0000
5.500	6.500	1.500 x .750	+.0035 -.0000
6.500	7.500	1.750 x .750	+.0040 -.0000
7.500	9.000	2.000 x .750	+.0040 -.0000
9.000	11.000	2.500 x .875	+.0045 -.0000
11.000	13.000	3.000 x 1.000	+.0045 -.0000
13.000	15.000	3.500 x 1.250	+.0050 -.0000
15.000	18.000	4.000 x 1.500	+.0050 -.0000

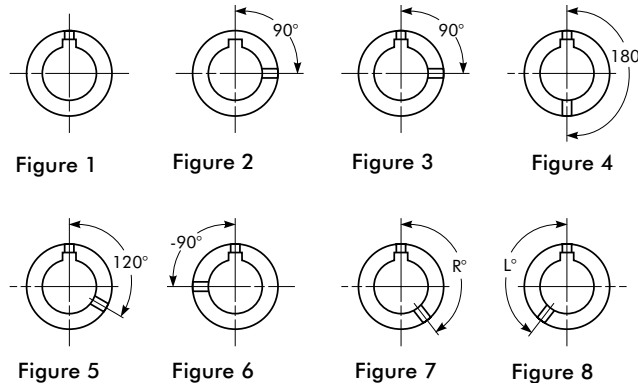
★ One square key for bore diameters thru 6.500"; one rectangular key for bore diameters over 6.500".

† Depth tolerance: +.010" to +.020".

TABLE 5 — Drill & Tap Size

Inch		Millimeters	
Tap Size UNC	Drill	Tap Size-6H	Drill
#6-32	.1094	M5 x 0.8	4.2
#8-32	#29	M6 x 1	5.0
#10-24	#25	M8 x 1.25	6.8
.250-20	#7	M10 x 1.25	8.5
.3125-18	F	M12 x 1.75	10.2
.375-16	.3125		
.4375-14	U		
.500-13	.4219		
.625-11	.5312		
.750-10	.6562		
.875-9	.7656		
1.000-8	.875		
1.125-7	.9844		
1.250-7	1.1094		
1.500-6	1.3438		
2.000-4.5	1.7812		

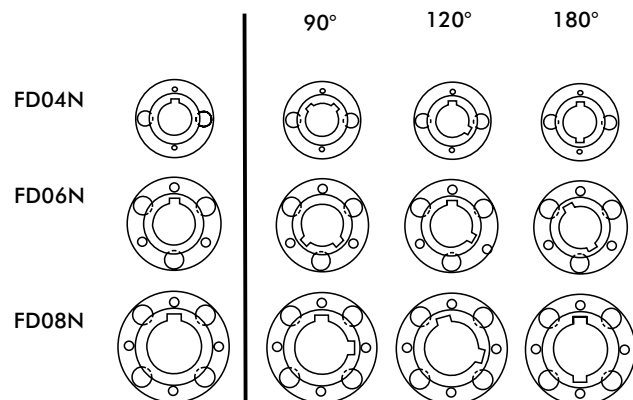
**VARIOUS SETSCREW LOCATIONS
(VIEWED FROM GAP END OF HUB)
ANGLE TOLERANCE ±5°**



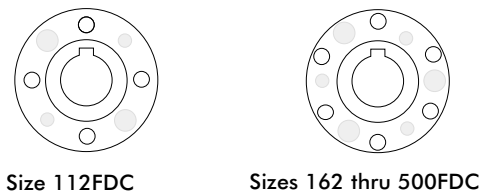
STANDARD LOCATION OF KEYWAYS, RELATIVE TO THE FLANGE HOLES, FOR TYPE FD DISC COUPLINGS WITH TYPE N HUBS

ONE KEYWAY

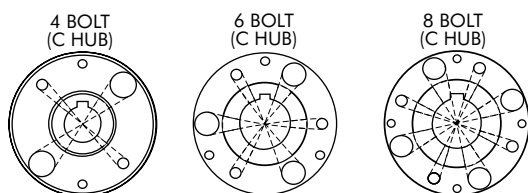
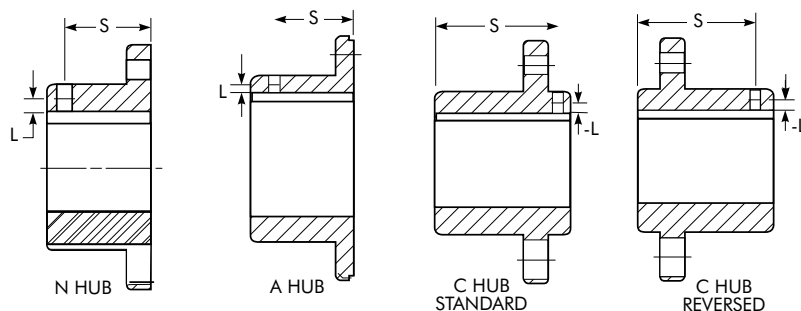
TWO KEYWAYS



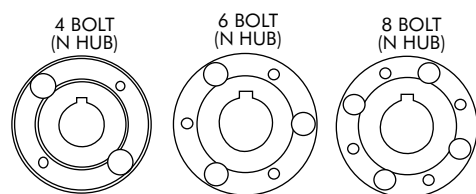
LOCATION OF KEYWAYS, RELATIVE TO BOLT AND CLEARANCE HOLES FOR TYPE FDC DISC COUPLING HUBS



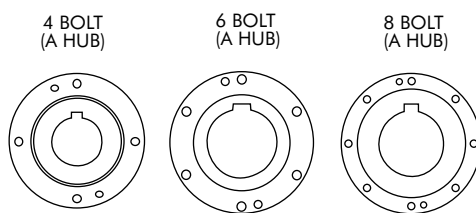
Note: Setscrews or keyways must not fall under fitted bolt holes or large clearance holes (shaded). No special keyway location required if furnished without setscrew.



"C" HUBS - SETSCREWS OR KEYWAYS WITH SETSCREWS MUST NOT FALL UNDER FITTED BOLT HOLES OR LARGE CLEARANCE HOLES. NO SPECIAL KEYWAY LOCATION REQUIRED IF FURNISHED WITHOUT SETSCREW.



"N" HUBS - NO KEYWAYS PERMITTED UNDER LARGE CLEARANCE HOLES (UNDER SCALLOPS).



"A" HUBS - NO SPECIAL KEYWAY LOCATION REQUIRED

TABLE 6 — Type FDG/FDP Setscrew Location & Size — Millimeter (Inch) (See Figures Above)

COUPLING SIZE	C Hub		A HUB		N HUB		Standard Metric Setscrew		Part Number	Optional Inch Setscrew		Part Number
	S mm (in)	L mm (in)	S mm (in)	L mm (in)	S mm (in)	L mm (in)	Tap Size - 6H mm	Setscrew Size mm		Tap Size (UNC-2B)	Setscrew Size Inch	
20FDG	45 (1.77)	5 (0.20)	35 (1.38)	5 (0.20)	35 (1.38)	5 (0.20)	M5 x 0.8	M5 x 5mm	2915656	#10-24	#10-24 x 0.188	908583
30FDG	46 (1.81)	5 (0.20)	35 (1.38)	5 (0.20)	35 (1.38)	5 (0.20)	M5 x 0.8	M5 x 5mm	2915656	#10-24	#10-24 x 0.188	908583
40FDG	56 (2.20)	6 (0.24)	38 (1.50)	6 (0.24)	38 (1.50)	6 (0.24)	M6 x 1.0	M6 x 6mm	2915657	0.250-20	0.250-20 x 0.25	908501
50FDG	68 (2.68)	6 (0.24)	48 (1.89)	6 (0.24)	48 (1.89)	6 (0.24)	M6 x 1.0	M6 x 6mm	2915657	0.250-20	0.250-20 x 0.25	908501
60FDG	85 (3.35)	8 (0.31)	54 (2.13)	8 (0.31)	54 (2.13)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.312	908535
70FDG	95 (3.74)	8 (0.31)	79 (3.11)	8 (0.31)	79 (3.11)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.375	908536
80FDG	84 (3.31)	8 (0.31)	84 (3.31)	8 (0.31)	84 (3.31)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.375	908536
90FDG	93 (3.66)	10 (0.39)	93 (3.66)	10 (0.39)	93 (3.66)	10 (0.39)	M10 x 1.5	M10 x 10mm	2917103	0.375-16	0.375-16 x 0.4375	908594
100FDG	104 (4.09)	10 (0.39)	104 (4.09)	10 (0.39)	104 (4.09)	10 (0.39)	M10 x 1.5	M10 x 10mm	2917103	0.375-16	0.375-16 x 0.500	908509
110FDG	111 (4.37)	12 (0.47)	111 (4.37)	12 (0.47)	111 (4.37)	12 (0.47)	M12 x 1.75	M12 x 12mm	2917104	0.500-13	0.500-13 x 0.375	908515
20FDP	42 (1.65)	5 (0.20)	35 (1.38)	5 (0.20)	35 (1.38)	5 (0.20)	M5 x 0.8	M5 x 5mm	2915656	#10-24	#10-24 x 0.188	908583
30FDP	44 (1.73)	5 (0.20)	35 (1.38)	5 (0.20)	35 (1.38)	5 (0.20)	M5 x 0.8	M5 x 5mm	2915656	#10-24	#10-24 x 0.188	908583
40FDP	53 (2.09)	6 (0.24)	38 (1.50)	6 (0.24)	38 (1.50)	6 (0.24)	M6 x 1.0	M6 x 6mm	2915657	0.250-20	0.250-20 x 0.25	908501
50FDP	64 (2.52)	6 (0.24)	48 (1.89)	6 (0.24)	48 (1.89)	6 (0.24)	M6 x 1.0	M6 x 6mm	2915657	0.250-20	0.250-20 x 0.25	908501
60FDP	81 (3.19)	8 (0.31)	54 (2.13)	8 (0.31)	54 (2.13)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.312	908535
70FDP	90 (3.54)	8 (0.31)	79 (3.11)	8 (0.31)	79 (3.11)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.375	908536
85FDP	96 (3.78)	8 (0.31)	79 (3.11)	8 (0.31)	79 (3.11)	8 (0.31)	M8 x 1.25	M8 x 8mm	2915658	0.3125-18	0.3125-18 x 0.375	908536
95FDP	110 (4.33)	10 (0.39)	90 (3.54)	10 (0.39)	90 (3.54)	10 (0.39)	M10 x 1.5	M10 x 10mm	2917103	0.375-16	0.375-16 x 0.4375	908594
105FDP	120 (4.72)	10 (0.39)	105 (4.13)	10 (0.39)	105 (4.13)	10 (0.39)	M10 x 1.5	M10 x 10mm	2917103	0.375-16	0.375-16 x 0.4375	908594
115FDP	128 (5.04)	12 (0.47)	116 (4.57)	12 (0.47)	116 (4.57)	12 (0.47)	M12 x 1.75	M12 x 12mm	2917104	0.500-13	0.500-13 x 0.375	908515
125FDP	132 (5.20)	16 (0.63)	128 (5.04)	16 (0.63)	128 (5.04)	16 (0.63)	M16 x 2.0	M16 x 16mm	2918694	0.625-11	0.625-11 x 0.500	908584

TABLE 7 — Types T, F & WA Setscrew Location & Size — Inches (See Figures on Pages 2 & 3)

T Hubs			T31 & T35 Shaft Hubs †		T41 Hubs		F Hubs			WA21 Hubs		
SIZE	S †	Setscrew ‡	S †	Setscrew ‡	H †	Setscrew ‡	Size	S †	Setscrew ‡	Size	S †	Setscrew ‡
1020T	1.54	#8-32 x .125 ★	1.08	.250-20 x .188	.22	.250-20 x .188	3F	1.12	.250-20 x .188	1020WA	.78	.250-20 x .375
1030T	1.54	.250-20 x .188	1.24	.250-20 x .188	.22	.250-20 x .188	4F	1.38	.250-20 x .188	1030WA	1.00	.250-20 x .375
1040T	1.58	.250-20 x .188	1.08	.375-16 x .250	.22	.250-20 x .188	5F	1.38	.250-20 x .188	1040WA	1.03	.250-20 x .312
1050T	1.76	.250-20 x .188	1.60	.375-16 x .250	.22	.250-20 x .188	6F	1.38	.375-16 x .250	1050WA	1.31	.3125-18 x .438
1060T	2.06	.375-16 x .250	1.70	.375-16 x .250	.32	.375-16 x .250	7F	1.38	.375-16 x .250	1060WA	1.48	.375-16 x .375
1070T	2.12	.375-16 x .250	1.84	.375-16 x .250	.32	.375-16 x .250	8F	1.82	.375-16 x .312	1070WA	1.62	.375-16 x .500
1080T	2.54	.375-16 x .250	1.96	.375-16 x .250	.32	.375-16 x .250	9F	1.82	.375-16 x .312	1080WA	1.62	.500-13 x .625
1090T	2.82	.375-16 x .250	2.24	.375-16 x .250	.32	.375-16 x .250	10F	2.24	.500-13 x .375	1090WA	1.62	.625-11 x .500
							11F	2.24	.500-13 x .500			

★ Manufacturing Option: Drill .12188 dia. counterbore to depth for a minimum of .25 thread length.

† Tolerance ± .030".

‡ For UNC-2B tapped hole.

TABLE 8 — Type FD & G Setscrew Location & Size — Inches (See Figures on Pages 2 & 3)

FD - A Hubs ★			FD - N Hubs ★			G Hubs ★			
SIZE	S †	Setscrew ‡	Size	S †	Setscrew ‡	Size	Flex	Rigid	Setscrew ‡
							S †	S †	
...	...	...	8FD	1.12	.250-20 x .188	1010	.26	1.00	.250-20 x .312
...	...	...	23FD	1.25	.250-20 x .188	1015	.38	1.50	.375-16 x .375
...	...	...	43FD	1.50	.375-16 x .250	1020	.50	1.76	.500-13 x .500
85FD	2.00	.375-16 x .375	85FD	1.62	.375-16 x .250	1025	.50	2.00	.500-13 x .625
190FD	2.25	.500-13 x .500	190FD	2.00	.375-16 x .250	1030	.50	2.00	.500-13 x .750
340FD	2.75	.500-13 x .500	340FD	2.38	.375-16 x .250	1035	.62	2.50	.500-13 x .750
625FD	3.00	.625-11 x .500	625FD	2.62	.375-16 x .250	1040	.76	2.82	.625-11 x 1.000
1080FD	3.75	.625-11 x .500	1080FD	3.00	.375-16 x .250	1045	.76	3.00	.625-11 x 1.000
1700FD	4.25	.625-11 x .625	1700FD	3.50	.500-13 x .375	1050	1.00	3.50	.625-11 x 1.000
2500FD	4.00	.625-11 x .500	2500FD	4.00	.625-11 x .500	1055	1.00	3.50	.750-10 x 1.250
3160FD	4.75	.625-11 x .625	3160FD	4.75	.625-11 x .500	1060	1.26	4.00	.875-9 x 1.250
4630FD	5.50	.625-11 x .625	4630FD	5.50	.625-11 x .500	1070	1.38	4.50	.875-9 x 1.250
6470FD	5.50	.750-10 x .750	6470FD	5.75	.625-11 x .625				
8770FD	6.25	.750-10 x .750	8770FD	6.50	.625-11 x .625				

★ Couplings are normally furnished with an interference fit, unless otherwise specified. Maximum bores are LESS for INTERFERENCE FIT bored hubs with a set screw OVER the keyway. Refer to Engineering 427-105 for allowable bores.

† Tolerance ± .030".

‡ For UNC-2B tapped hole.

TABLE 9 — Type FDC Setscrew Location & Size — Inches (See Figures on Pages 2 & 3)

SIZE	Dimension S † (Inch)		Setscrew — Inch ★ ‡	Setscrew — MM ★ •
	Types 10, 11 & 12	Types 20, 21 & 22		
112	1.20	1.48	10-24 x .188	M5 x 5
162	1.32	1.73	10-24 x .188	M5 x 5
187	1.46	1.87	.250-20 x .250	M6 x 6
225	1.65	2.06	.250-20 x .250	M6 x 6
262	2.05	2.58	.312-18 x .312	M8 x 8
300	2.44	3.03	.312-18 x .375	M8 x 8
350	2.76	3.45	.312-18 x .375	M8 x 8
400	3.31	4.09	.375-16 x .438	M10 x 10
450	3.74	4.61	.375-16 x .500	M10 x 10
500	4.25	5.19	.500-13 x .375	M12 x 12

★ Metric series setscrews are standard. Inch series setscrews are available as an option if specified.

† Tolerance ± .030".

‡ For UNC-2B tapped hole.

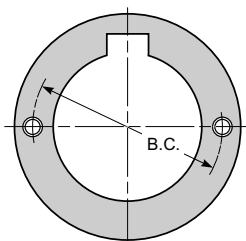
• For 6H tapped hole.

TABLE 10 — Type G Gear Coupling Puller Bolt Holes — Inches

SIZE	B.C.		Tap Size — UNC
	Flex Hub	Rigid Hub	
1010G †	2.060	2.625	.375-16 x .50
1015G †	2.750	3.375	.375-16 x .50
1020G	3.500	4.250	.375-16 x .50
1025G	4.440	5.240	.375-16 x .50
1030G	5.060	6.160	.375-16 x .50
1035G	6.000	7.180	.500-13 x .62
1040G	7.125	8.260	.625-11 x .76
1045G	7.875	9.180	.625-11 x .76
1050G	8.500	10.200	.750-10 x .88
1055G	9.375	11.200	.750-10 x .88
1060G	10.375	12.460	.750-10 x .88
1070G	12.250	14.500	1.000-8 x 1.18
1080/2080G	12.500	15.438	1.000-8 x 1.18
1090/2090G	14.000	17.250	1.250-7 x 1.50
1100/2100G	15.500	18.750	1.500-6 x 1.75
1110/2110G	17.500	20.500	1.500-6 x 1.75
1120/2120G	19.500	22.625	1.500-6 x 1.75
1130/2130G	21.000	24.688	1.500-6 x 1.75
1140/2140G	23.000	26.188	1.500-6 x 1.75
1150/2150G	25.000	28.312	1.500-6 x 1.75
1160/2160G	27.000	29.875	1.500-6 x 1.75
1180/2180G	30.500	33.875	1.500-6 x 1.75
1200/2200G	34.000	37.375	2.000-4.5 x 2.38
1220/2220G	37.500	41.875	2.000-4.5 x 2.38
1240/2240G	41.000	44.375	2.000-4.5 x 2.38
1260/2260G	45.000	...	2.000-4.5 x 2.38
1280/2280G	49.000	...	2.000-4.5 x 2.38
1300/2300G	53.000	...	2.000-4.5 x 2.38

† Size 1010G Max Bore:
 Flex Hub = 1.500
 Rigid Hub = 2.000

Size 1015G Max Bore:
 Flex Hub = 2.125
 Rigid Hub = 2.750

**TABLE 11 — Type T Steelflex Coupling Puller Bolt Holes — Inches**

SIZE	T-Hub		Shaft Hub	
	B.C.	Tap Size — UNC	B.C. ★	Tap Size — UNC
1020T	1.531	# 6-32 x .38	2.812	.375-16 x †
1030T	1.875	# 6-32 x .38	3.125	.375-16 x †
1040T	2.125	# 10-24 x .38	3.875	.375-16 x †
1050T	2.500	# 10-24 x .38	4.250	.375-16 x †
1060T	2.875	.250-20 x .38	4.938	.375-16 x †
1070T	3.312	.250-20 x .38	5.250	.375-16 x †
1080T	3.937	.250-20 x .38	4.062	.375-16 x .50
1090T	4.562	.3125-18 x .44	4.625	.375-16 x .50
1100T	5.250	.375-16 x .50	5.750	.625-11 x .82
1110T	5.875	.4375-14 x .62	6.562	.625-11 x .82
1120T	6.625	.4375-14 x .62	7.500	.750-10 x .94
1130T	7.750	.625-11 x .82	8.188	.750-10 x .94
1140T	9.125	.625-11 x .82	9.250	.750-10 x .94
1150T	10.375	.750-10 x .94		
1160T	11.750	.875-9 x 1.06		
1170T	13.250	1.125-7 x 1.25		
1180T	14.875	1.250-7 x 1.50		
1190T	16.250	1.500-6 x 1.75		
1200T	17.937	1.500-6 x 1.75		
1210T	19.562	1.500-6 x 1.75		
1220T	21.312	1.500-6 x 1.75		
1230T	23.062	1.500-6 x 1.75		
1240T	24.938	1.500-6 x 1.75		
1250T	27.188	1.500-6 x 1.75		
1260T	29.500	1.500-6 x 1.75		

★ Locate puller bolt holes 90° from keyway except as noted by Footnote (†)

† Drill and tap thru flange between existing holes. Relation to keyway may vary freely.

TABLE 12 — Type WA Torus® Coupling Puller Bolt Holes — Inches

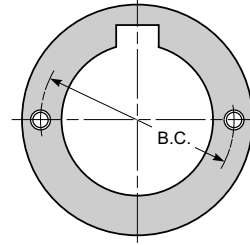
SIZE	No. 1 and No. 6 Hubs	
	B.C.	Tap Size — UNC
1020WA	2.750	.3125-18 x .44
1030WA	3.000	.3125-18 x .50
1040WA	3.625	.375-16 x .62
1050WA	4.125	.375-16 x .62
1060WA	4.875	.375-16 x .62
1070WA	5.250	.375-16 x .62
1080WA	6.000	.500-13 x .88
1090WA	7.250	.500-13 x .88
1100WA	8.875	.500-13 x .88
1110WA	8.875	.500-13 x 1.00
1120WA	8.750	.625-11 x 1.12
1130WA	9.000	.750-10 x 1.25
1140WA	8.875	.750-10 x 1.30
1150WA	9.375	.875-9 x 1.50
1160WA	9.875	.875-9 x 1.50

TABLE 13 — Type A Airflex Coupling Puller Bolt Holes — Inches

SIZE	Standard Hub	
	B.C.	Tap Size — UNC
15A	3.000	.312-18 x .50
16A	3.188	.375-16 x .62
18A	3.625	.375-16 x .62
21A	4.375	.500-13 x .75
24A	5.250	.500-13 x .75
28A	6.500	.750-10 x 1.12
33A	7.375	.750-10 x 1.12
39A	9.125	1.000-8 x 1.50
46A	10.500	1.000-8 x 1.50
53A	11.750	1.000-8 x 1.50
62A	13.500	1.000-8 x 1.50
72A	15.500	1.000-8 x 1.50
85A	17.000	1.000-8 x 1.50

TABLE 14 — Type F Steelflex® Coupling Puller Bolt Holes — Inches

SIZE	F-Hub	
	B.C.	Tap Size — UNC
3F	1.312	.250-20 x .38
4F	1.562	.250-20 x .38
5F	1.812	.312-18 x .50
6F	2.312	.312-18 x .50
7F	2.625	.375-16 x .62
8F	3.250	.375-16 x .62
9F	3.500	.375-16 x .62
10F	4.062	.500-13 x .75
11F	4.437	.500-13 x .75
12F	4.750	.625-11 x 1.00
13F	5.250	.625-11 x 1.00
14F	5.750	.750-10 x 1.12
15F	6.250	.750-10 x 1.12
16F	7.125	.750-10 x 1.12
17F	8.000	.875-9 x 1.38
18F	9.000	.875-9 x 1.38
190F	9.750	1.000-8 x 1.50


TABLE 15 — Type FD Freedom® Disc Coupling Puller Bolt Holes — Inches

SIZE	A-Hub		N-Hub	
	B.C. ★	Tap Size — UNC	B.C. ★	Tap Size — UNC
8FD04	...	...	2.440	.375-16 x †
23FD04	...	...	3.120	.375-16 x †
43FD04	...	...	3.750	.375-16 x †
85FD06	3.940	.375-16 x .75	3.810	.375-16 x †
190FD06	4.500	.375-16 x .75	4.090	.375-16 x †
340FD06	5.310	.375-16 x .75	4.750	.375-16 x †
625FD06	6.000	.500-13 x 1.0	5.000	.375-16 x †
1080FD06	7.000	.500-13 x 1.0	6.000	.375-16 x †
1700FD06	8.250	.625-11 x 1.2	5.500	.375-16 x .75
2500FD08	7.250	.500-13 x 1.0	6.600	.375-16 x .75
3160FD08	8.600	.625-11 x 1.2	7.400	.500-13 x 1.0
4630FD08	9.750	.625-11 x 1.2	8.200	.625-11 x 1.2
6470FD08	10.750	.750-10 x 1.5	8.800	.625-11 x 1.2
8770FD08	11.750	.750-10 x 1.5	9.600	.625-11 x 1.2

★ Locate puller bolt holes 90° from keyway except as noted by a (†).

† Drill and tap thru flange between existing holes.

TABLE 16 — Type FDC Freedom Disc Coupling Puller Bolt Holes — Inches

SIZE	Falk Preferred (Std)			For API 610 (.375 Dia Min)		
	Max Bore	BC Dia	Tap Size — UNC	Max Bore	BC Dia	Tap Size — UNC
112FDC	.750	1.160	.250-20 x .50	...	...	...
162FDC	1.375	1.840	.250-20 x .50	1.000	1.660	.375-16 x .75
187FDC	1.625	2.190	.312-18 x .62	1.375	2.060	.375-16 x .75
225FDC	2.125	2.690	.312-18 x .62	1.875	2.560	.375-16 x .75
262FDC	2.500	3.160	.375-16 x .75	2.500	3.160	.375-16 x .75
300FDC	3.000	3.690	.375-16 x .75	3.000	3.690	.375-16 x .75
350FDC	3.750	4.380	.375-16 x .75	3.750	4.380	.375-16 x .75
400FDC	4.250	5.000	.437-14 x .88	4.250	5.000	.437-14 x .88
450FDC	4.625	5.500	.500-13 x 1.00	4.625	5.500	.500-13 x 1.00
500FDC	5.250	6.090	.500-13 x 1.00	5.250	6.090	.500-13 x 1.00

TABLE 17 — FDG/FDP Puller Bolt Holes — Metric

SIZE	N-Hub			A-Hub ‡			C-Hub		
	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore
20	74	M6-1.0-6H	45	74	M5-0.8-6H	45	28	M6-1.0-6H	28
30	88	M10-1.5-6H	55	88	M5-0.8-6H	55	47	M6-1.0-6H	43
40	108	M10-1.5-6H	60	108	M6-1.0-6H	60	54	M10-1.5-6H	50
50	130	M10-1.5-6H	75	130	M8-1.25-6H	75	66	M10-1.5-6H	60
60	147	M10-1.5-6H	90	147	M10-1.5-6H	90	77	M10-1.5-6H	70
70	170	M10-1.5-6H	100	170	M10-1.5-6H	100	92	M10-1.5-6H	82
80	191	M12-1.75-6H	95	191	M12-1.75-6H	95	191	M12-1.75-6H	95
90	216	M14-2.0-6H	110	216	M14-2.0-6H	110	216	M14-2.0-6H	110
100	230	M16-2.0-6H	121	230	M16-2.0-6H	121	230	M16-2.0-6H	121
110	267	M16-2.0-6H	137	267	M16-2.0-6H	137	267	M16-2.0-6H	137
85	198	M12-1.75-6H	105	198	M12-1.75-6H	125	105	M10-1.5-6H	95
95	218	M12-1.75-6H	120	218	M12-1.75-6H	135	130	M10-1.5-6H	110
105	244	M14-2.0-6H	135	244	M14-2.0-6H	155	144	M10-1.5-6H	120
115	271	M16-2.0-6H	150	271	M16-2.0-6H	170	156	M12-1.75-6H	140
125	303	M16-2.0-6H	175	303	M16-2.0-6H	190	190	M12-1.75-6H	165

‡ Standard puller holes are included without extra charge.

Shaded sizes do not meet API 610 Standards.

TABLE 18 — FDG/FDP API 610 Puller Bolt Holes – Inches

SIZE	N-Hub			A-Hub ‡			C-Hub		
	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore
30	3.47	.375-16 x *	2.000	3.47	.375-16 x *	2.000	1.86	.375-16 x *	1.625
40	4.26	.375-16 x *	2.250	4.26	.375-16 x *	2.250	2.13	.375-16 x *	1.875
50	5.12	.375-16 x *	2.750	5.12	.375-16 x *	2.750	2.60	.375-16 x *	2.250
60	5.79	.375-16 x *	3.250	5.79	.375-16 x *	3.250	3.04	.375-16 x *	2.652
70	6.70	.375-16 x *	3.625	6.70	.375-16 x *	3.625	3.63	.375-16 x *	3.000
80	7.52	.375-16 x *	3.500	7.52	.375-16 x *	3.500	7.52	.375-16 x *	3.500
90	8.50	.375-16 x *	4.000	8.50	.375-16 x *	4.000	8.50	.375-16 x *	4.000
100	9.05	.375-16 x *	4.500	9.05	.375-16 x *	4.500	9.05	.375-16 x *	4.500
110	10.51	.375-16 x *	5.000	10.51	.375-16 x *	5.000	10.51	.375-16 x *	5.000
85	7.80	.375-16 x *	4.250	7.80	.375-16 x *	5.000	4.14	.375-16 x *	3.500
95	8.59	.375-16 x *	4.625	8.59	.375-16 x *	5.250	5.12	.375-16 x *	4.00
105	9.61	.375-16 x *	5.250	9.61	.375-16 x *	6.000	5.67	.375-16 x *	4.500
115	10.67	.375-16 x *	5.875	10.67	.375-16 x *	6.500	6.15	.375-16 x *	5.000
125	11.93	.375-16 x *	6.875	11.93	.375-16 x *	7.500	7.49	.375-16 x *	6.000

* Drill and tap thru flange between existing holes.

‡ Metric puller holes meeting API 610 are standard and included with A hubs.

TABLE 19 — API Metric Puller Bolt Holes

Size	N Hub			A Hub			C Hub		
	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore	Bolt Circle	Tap Size	Max Bore
20	API 610 10mm minimum puller hole is not practical for the hubs shaded								
30	88	M10-1.5-6H	55	88	M10-1.5-6H	55	50	M10-1.5-6H	50
40	108	M10-1.5-6H	60	108	M10-1.5-6H	60	77	M10-1.5-6H	70
50	130	M10-1.5-6H	75	130	M10-1.5-6H	75	92	M10-1.5-6H	82
60	147	M10-1.5-6H	90				191	M12-1.75-6H	95
70	170	M10-1.5-6H	100				216	M14-2.0-6H	110
80	191	M12-1.75-6H	95				230	M16-2.0-6H	121
90	216	M14-2.0-6H	110				267	M16-2.0-6H	137
100	230	M16-2.0-6H	121				105	M10-1.5-6H	95
110	267	M16-2.0-6H	137				130	M10-1.5-6H	110
85	198	M12-1.75-6H	105				144	M10-1.5-6H	120
95	218	M12-1.75-6H	120				156	M12-1.75-6H	140
105	244	M14-2.0-6H	135				190	M12-1.75-6H	165
115	271	M16-2.0-6H	150						
125	303	M16-2.0-6H	175						

Standard Puller Bolt Holes
Meet the Requirements
for API 610