

Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

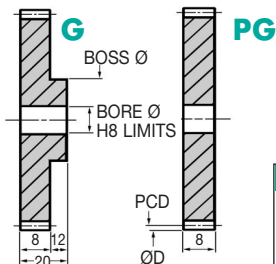
ALTERNATIVE : Brass, Tufnol or Delrin

1 MOD

20° P.A.

SPECIAL TEETH : between 9 - 448

TORQUE CHECK 50 teeth x 1000 rpm variations of back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	2.600	12.000	1.250	1.000
K.W.	0.254	1.261	0.134	0.104



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1-9	9	10	12	12	6	0.011	0.003	£10.19	£9.49
G1-10	10	11	13	13	6	0.014	0.004	£10.19	£9.51
G1-11	11	12	14	14	6	0.017	0.005	£10.22	£9.57
G1-12	12	12	14	14	6	0.017	0.005	£10.25	£9.62
G1-13	13	13	15	15	6	0.020	0.006	£10.30	£9.76
G1-14	14	14	16	15	6	0.021	0.008	£10.47	£9.96
G1-15	15	15	17	12	8	0.014	0.008	£10.72	£10.28
G1-16	16	16	18	12	8	0.015	0.009	£10.87	£10.42
G1-17	17	17	19	12	8	0.017	0.011	£11.06	£10.70
G1-18	18	18	20	15	8	0.024	0.013	£11.30	£10.87
G1-19	19	19	21	15	8	0.026	0.014	£11.49	£11.15
G1-20	20	20	22	15	8	0.028	0.016	£11.85	£11.33
G1-21	21	21	23	15	8	0.030	0.018	£11.93	£11.53
G1-22	22	22	24	15	8	0.032	0.020	£12.09	£11.77
G1-23	23	23	25	15	8	0.034	0.022	£12.15	£11.93
G1-24	24	24	26	15	8	0.036	0.025	£12.23	£12.22
G1-25	25	25	27	15	8	0.039	0.027	£12.75	£12.40
G1-26	26	26	28	15	8	0.041	0.029	£13.19	£12.66
G1-27	27	27	29	15	8	0.044	0.032	£13.46	£12.83
G1-28	28	28	30	15	8	0.046	0.035	£13.77	£13.09
G1-29	29	29	31	15	8	0.049	0.037	£14.13	£13.30
G1-30	30	30	32	20	8	0.064	0.040	£14.36	£13.48
G1-31	31	31	33	20	8	0.067	0.043	£14.61	£13.64

Spur Gears Steel - Standard MOD 1

23.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1-32	32	32	34	20	8	0.070	0.046	£14.72	£13.77
G1-33	33	33	35	20	8	0.074	0.049	£14.90	£13.95
G1-34	34	34	36	20	8	0.077	0.053	£15.07	£14.05
G1-35	35	35	37	20	8	0.080	0.056	£15.23	£14.25
G1-36	36	36	38	20	8	0.083	0.059	£15.41	£14.36
G1-37	37	37	39	20	8	0.087	0.063	£15.57	£14.50
G1-38	38	38	40	20	8	0.091	0.066	£15.87	£14.67
G1-39	39	39	41	20	8	0.094	0.070	£16.17	£14.77
G1-40	40	40	42	20	8	0.098	0.074	£16.44	£14.96
G1-41	41	41	43	20	8	0.102	0.078	£16.48	£15.12
G1-42	42	42	44	20	8	0.106	0.082	£16.56	£15.23
G1-43	43	43	45	20	8	0.110	0.086	£16.65	£15.39
G1-44	44	44	46	20	8	0.114	0.090	£16.72	£15.49
G1-45	45	45	47	20	8	0.119	0.094	£16.77	£15.70
G1-46	46	46	48	20	8	0.123	0.099	£16.83	£15.83
G1-47	47	47	49	20	8	0.127	0.103	£16.92	£15.95
G1-48	48	48	50	20	8	0.132	0.108	£16.94	£16.13
G1-49	49	49	51	20	8	0.137	0.112	£17.81	£16.24
G1-50	50	50	52	30	10	0.173	0.115	£18.69	£16.44
G1-51	51	51	53	30	10	0.178	0.120	£18.98	£16.60
G1-52	52	52	54	30	10	0.183	0.125	£19.25	£16.81
G1-53	53	53	55	30	10	0.188	0.130	£19.46	£16.95
G1-54	54	54	56	30	10	0.193	0.135	£19.72	£17.25
G1-55	55	55	57	30	10	0.198	0.141	£20.08	£17.34
G1-56	56	56	58	30	10	0.204	0.146	£20.09	£17.51
G1-57	57	57	59	30	10	0.209	0.151	£20.42	£17.77
G1-58	58	58	60	30	10	0.215	0.157	£20.66	£17.89
G1-59	59	59	61	30	10	0.220	0.163	£20.91	£18.13
G1-60	60	60	62	30	10	0.226	0.168	£21.15	£18.37
G1-61	61	61	63	30	10	0.232	0.174	£21.42	£18.45
G1-62	62	62	64	30	10	0.238	0.180	£21.85	£18.69
G1-63	63	63	65	30	10	0.244	0.186	£22.45	£18.83
G1-64	64	64	66	30	10	0.250	0.192	£22.85	£19.07
G1-65	65	65	67	30	10	0.256	0.198	£23.42	£19.25
G1-66	66	66	68	30	10	0.262	0.205	£23.88	£19.41
G1-68	68	68	70	30	10	0.275	0.218	£24.61	£19.62
G1-70	70	70	72	30	10	0.288	0.231	£25.12	£19.77
G1-72	72	72	74	30	10	0.302	0.244	£25.66	£20.08
G1-73	73	73	75	30	10	0.309	0.251	£26.33	£20.25
G1-74	74	74	76	30	10	0.316	0.258	£27.02	£20.56
G1-76	76	76	78	30	10	0.331	0.273	£27.39	£20.73
G1-78	78	78	80	30	10	0.345	0.288	£27.79	£21.07
G1-80	80	80	82	30	10	0.361	0.303	£28.37	£21.32
G1-84	84	84	86	30	10	0.392	0.334	£28.76	£21.58
G1-88	88	88	90	30	10	0.425	0.368	£29.38	£22.45
G1-90	90	90	92	30	10	0.442	0.385	£30.32	£23.87
G1-96	96	96	98	30	10	0.496	0.438	£33.58	£25.22
G1-100	100	100	102	30	10	0.534	0.476	£34.02	£28.37
G1-112	112	112	114	30	10	0.656	0.598	£42.58	£32.40
G1-120	120	120	122	30	12	0.745	0.688	£48.18	£40.15
G1-130	130	130	132	30	12	0.865	0.808	£54.62	£45.58
G1-150	150	150	152	40	15	1.135	1.077	£64.10	£53.42

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

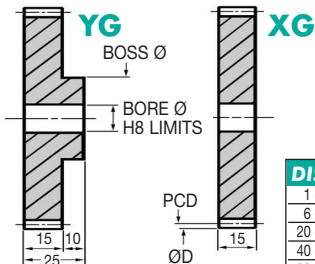
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

1 MOD

20° P.A.

SPECIAL TEETH : between 9 - 448

TORQUE CHECK	655M13	655M13 Cse/HD	817M40	817M40
50 teeth x 1000 rpm				
variations TORQUE Nm.	10.600	29.300	10.600	15.520
at back K.W.	1.119	3.074	1.119	1.626



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1-9	9	10.00	12.00	12	6	0.017	0.006	£12.66	£9.47
YG1-10	10	11.00	13.00	13	6	0.020	0.008	£12.68	£9.48
YG1-11	11	12.00	14.00	14	6	0.024	0.010	£12.75	£9.51
YG1-12	12	12.00	14.00	14	6	0.024	0.010	£12.77	£9.55
YG1-13	13	13.00	15.00	15	6	0.028	0.012	£12.84	£9.61
YG1-14	14	14.00	16.00	16	6	0.032	0.014	£13.13	£9.83
YG1-15	15	15.00	17.00	17	6	0.037	0.017	£13.31	£9.97
YG1-16	16	16.00	18.00	18	8	0.041	0.017	£13.59	£10.19
YG1-17	17	17.00	19.00	18	8	0.044	0.020	£13.82	£10.32
YG1-18	18	18.00	20.00	18	8	0.047	0.023	£14.08	£10.57
YG1-19	19	19.00	21.00	18	8	0.051	0.027	£14.33	£10.75
YG1-20	20	20.00	22.00	20	8	0.059	0.030	£14.82	£11.10
YG1-21	21	21.00	23.00	20	8	0.063	0.034	£14.96	£11.20
YG1-22	22	22.00	24.00	20	8	0.066	0.038	£15.07	£11.28
YG1-23	23	23.00	25.00	20	8	0.071	0.042	£15.14	£11.33
YG1-24	24	24.00	26.00	20	8	0.075	0.046	£15.33	£11.47
YG1-25	25	25.00	27.00	20	8	0.079	0.051	£15.90	£11.89
YG1-26	26	26.00	28.00	25	8	0.097	0.055	£16.45	£12.33
YG1-27	27	27.00	29.00	25	8	0.102	0.060	£16.81	£12.62
YG1-28	28	28.00	30.00	25	8	0.107	0.065	£17.25	£12.84
YG1-29	29	29.00	31.00	25	8	0.112	0.070	£17.62	£13.19
YG1-30	30	30.00	32.00	25	8	0.117	0.075	£17.90	£13.41
YG1-31	31	31.00	33.00	25	8	0.123	0.081	£18.13	£13.59

Spur Gears Steel - Heavy Duty MOD 1

23.30



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	OD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1-32	32	32.00	34.00	25	8	0.129	0.087	£18.37	£13.75
YG1-33	33	33.00	35.00	25	8	0.135	0.092	£18.61	£13.95
YG1-34	34	34.00	36.00	25	8	0.141	0.098	£18.77	£14.06
YG1-35	35	35.00	37.00	25	8	0.147	0.105	£19.03	£14.25
YG1-36	36	36.00	38.00	30	8	0.170	0.111	£19.25	£14.38
YG1-37	37	37.00	39.00	30	8	0.176	0.118	£19.42	£14.61
YG1-38	38	38.00	40.00	30	8	0.183	0.124	£19.77	£14.82
YG1-39	39	39.00	41.00	30	8	0.190	0.131	£20.12	£15.07
YG1-40	40	40.00	42.00	30	8	0.197	0.138	£20.47	£15.38
YG1-41	41	41.00	43.00	30	8	0.204	0.146	£20.59	£15.41
YG1-42	42	42.00	44.00	30	8	0.212	0.153	£20.66	£15.47
YG1-43	43	43.00	45.00	30	8	0.220	0.161	£20.70	£15.50
YG1-44	44	44.00	46.00	30	8	0.227	0.169	£20.87	£15.57
YG1-45	45	45.00	47.00	30	8	0.235	0.177	£20.92	£15.65
YG1-46	46	46.00	48.00	30	8	0.244	0.185	£20.96	£15.76
YG1-47	47	47.00	49.00	30	8	0.252	0.193	£21.09	£15.82
YG1-48	48	48.00	50.00	30	8	0.261	0.202	£21.10	£15.83
YG1-49	49	49.00	51.00	30	8	0.269	0.211	£22.26	£16.65
YG1-50	50	50.00	52.00	35	10	0.297	0.216	£23.30	£17.44
YG1-51	51	51.00	53.00	35	10	0.307	0.225	£23.67	£17.76
YG1-52	52	52.00	54.00	35	10	0.316	0.235	£23.95	£17.98
YG1-53	53	53.00	55.00	35	10	0.325	0.244	£24.32	£18.18
YG1-54	54	54.00	56.00	35	10	0.335	0.254	£24.61	£18.43
YG1-55	55	55.00	57.00	35	10	0.345	0.264	£25.03	£18.71
YG1-56	56	56.00	58.00	35	10	0.355	0.274	£25.05	£18.76
YG1-57	57	57.00	59.00	35	10	0.365	0.284	£25.40	£19.04
YG1-58	58	58.00	60.00	35	10	0.375	0.294	£25.77	£19.29
YG1-59	59	59.00	61.00	35	10	0.386	0.305	£26.09	£19.58
YG1-60	60	60.00	62.00	35	10	0.397	0.316	£26.37	£19.73
YG1-61	61	61.00	63.00	35	10	0.408	0.326	£26.74	£20.08
YG1-62	62	62.00	64.00	35	10	0.419	0.338	£27.24	£20.42
YG1-63	63	63.00	65.00	35	10	0.430	0.349	£28.01	£20.96
YG1-64	64	64.00	66.00	35	10	0.441	0.360	£28.55	£21.38
YG1-65	65	65.00	67.00	35	10	0.453	0.372	£29.26	£21.91
YG1-66	66	66.00	68.00	35	10	0.465	0.384	£29.81	£22.36
YG1-68	68	68.00	70.00	35	10	0.489	0.408	£30.73	£22.99
YG1-70	70	70.00	72.00	35	10	0.514	0.433	£31.32	£23.47
YG1-72	72	72.00	74.00	35	10	0.539	0.458	£31.99	£23.92
YG1-73	73	73.00	75.00	35	10	0.553	0.471	£33.31	£24.63
YG1-74	74	74.00	76.00	45	10	0.614	0.485	£33.64	£25.22
YG1-76	76	76.00	78.00	45	10	0.641	0.512	£34.13	£25.59
YG1-78	78	78.00	80.00	45	10	0.669	0.539	£34.61	£25.97
YG1-80	80	80.00	82.00	45	10	0.697	0.568	£35.33	£26.53
YG1-84	84	84.00	86.00	45	10	0.756	0.627	£35.89	£26.89
YG1-88	88	88.00	90.00	45	10	0.818	0.689	£36.72	£27.51
YG1-90	90	90.00	92.00	45	10	0.850	0.721	£37.76	£28.31
YG1-96	96	96.00	98.00	45	10	0.951	0.822	£41.88	£31.33
YG1-100	100	100.00	102.00	45	10	1.022	0.892	£42.40	£31.77
YG1-112	112	112.00	114.00	45	10	1.251	1.122	£48.80	£36.55
YG1-120	120	120.00	122.00	45	12	1.418	1.289	£60.07	£45.02
YG1-130	130	130.00	132.00	45	12	1.644	1.515	£68.15	£51.09
YG1-150	150	150.00	152.00	45	15	2.149	2.019	£79.88	£59.90

Spur Gears Steel - Heavy Duty MOD 1

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : **White Delrin**

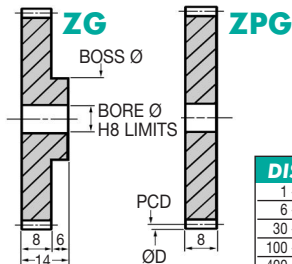
1 MOD

20° P.A.

SPECIAL TEETH : **between 9 - 448**



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

Spur Gears Plastic MOD 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG1-9	9	10.00	12.00	12	4	0.001	0.001	£5.06	£3.89
ZG1-10	10	11.00	13.00	12	4	0.002	0.001	£5.08	£3.90
ZG1-11	11	12.00	14.00	12	4	0.002	0.001	£5.10	£3.96
ZG1-12	12	12.00	14.00	12	4	0.002	0.001	£5.12	£3.96
ZG1-13	13	13.00	15.00	12	4	0.002	0.001	£5.19	£3.99
ZG1-14	14	14.00	16.00	12	4	0.002	0.001	£5.25	£4.01
ZG1-15	15	15.00	17.00	12	4	0.002	0.002	£5.33	£4.08
ZG1-16	16	16.00	18.00	15	6	0.003	0.002	£5.48	£4.14
ZG1-17	17	17.00	19.00	15	6	0.003	0.002	£5.54	£4.24
ZG1-18	18	18.00	20.00	15	6	0.003	0.002	£5.67	£4.27
ZG1-19	19	19.00	21.00	15	6	0.004	0.003	£5.72	£4.38
ZG1-20	20	20.00	22.00	15	6	0.004	0.003	£5.90	£4.53
ZG1-21	21	21.00	23.00	18	6	0.005	0.003	£5.95	£4.57
ZG1-22	22	22.00	24.00	18	6	0.005	0.004	£6.03	£4.61
ZG1-23	23	23.00	25.00	18	6	0.006	0.004	£6.06	£4.62
ZG1-24	24	24.00	26.00	18	6	0.006	0.004	£6.14	£4.73
ZG1-25	25	25.00	27.00	18	6	0.007	0.005	£6.38	£4.83
ZG1-26	26	26.00	28.00	18	6	0.007	0.005	£6.65	£5.06
ZG1-27	27	27.00	29.00	18	6	0.007	0.006	£6.72	£5.19
ZG1-28	28	28.00	30.00	18	6	0.008	0.006	£6.87	£5.25
ZG1-29	29	29.00	31.00	18	6	0.008	0.007	£7.04	£5.46
ZG1-30	30	30.00	32.00	18	6	0.009	0.007	£7.27	£5.52
ZG1-31	31	31.00	33.00	18	6	0.009	0.007	£8.02	£6.14

23.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG1-32	32	32.00	34.00	18	6	0.010	0.008	£8.12	£6.20
ZG1-33	33	33.00	35.00	18	6	0.010	0.009	£8.20	£6.32
ZG1-34	34	34.00	36.00	18	6	0.011	0.009	£8.35	£6.38
ZG1-35	35	35.00	37.00	18	6	0.011	0.010	£8.45	£6.39
ZG1-36	36	36.00	38.00	18	6	0.012	0.010	£8.50	£6.51
ZG1-38	38	38.00	40.00	18	6	0.013	0.011	£8.73	£6.72
ZG1-39	39	39.00	41.00	18	6	0.014	0.012	£10.15	£7.75
ZG1-40	40	40.00	42.00	18	6	0.014	0.013	£10.30	£7.87
ZG1-42	42	42.00	44.00	18	6	0.016	0.014	£10.42	£7.94
ZG1-43	43	43.00	45.00	18	6	0.016	0.015	£10.47	£8.01
ZG1-44	44	44.00	46.00	18	6	0.017	0.015	£10.50	£8.02
ZG1-45	45	45.00	47.00	18	6	0.018	0.016	£10.54	£8.10
ZG1-46	46	46.00	48.00	18	6	0.019	0.017	£10.58	£8.11
ZG1-47	47	47.00	49.00	18	6	0.019	0.018	£10.62	£8.12
ZG1-48	48	48.00	50.00	18	6	0.020	0.018	£12.78	£9.82
ZG1-50	50	50.00	52.00	22	8	0.022	0.020	£14.08	£10.79
ZG1-51	51	51.00	53.00	22	8	0.023	0.020	£14.29	£10.97
ZG1-52	52	52.00	54.00	22	8	0.024	0.021	£14.63	£11.12
ZG1-53	53	53.00	55.00	22	8	0.025	0.022	£14.72	£11.28
ZG1-54	54	54.00	56.00	22	8	0.026	0.023	£14.90	£11.47
ZG1-55	55	55.00	57.00	22	8	0.026	0.024	£15.14	£11.56
ZG1-56	56	56.00	58.00	22	8	0.027	0.025	£15.18	£11.59
ZG1-58	58	58.00	60.00	22	8	0.029	0.027	£15.57	£11.96
ZG1-59	59	59.00	61.00	22	8	0.030	0.028	£17.88	£13.75
ZG1-60	60	60.00	62.00	22	8	0.031	0.029	£18.13	£13.95
ZG1-61	61	61.00	63.00	22	8	0.032	0.030	£18.40	£14.08
ZG1-62	62	62.00	64.00	22	8	0.033	0.031	£18.69	£14.35
ZG1-63	63	63.00	65.00	22	8	0.034	0.032	£19.25	£14.74
ZG1-64	64	64.00	66.00	22	8	0.035	0.033	£19.60	£15.00
ZG1-65	65	65.00	67.00	22	8	0.036	0.034	£20.08	£15.38
ZG1-66	66	66.00	68.00	22	8	0.037	0.035	£20.47	£15.68
ZG1-68	68	68.00	70.00	22	8	0.039	0.037	£21.09	£16.18
ZG1-70	70	70.00	72.00	22	8	0.042	0.039	£21.52	£16.55
ZG1-72	72	72.00	74.00	22	8	0.044	0.041	£21.98	£16.81
ZG1-73	73	73.00	75.00	22	8	0.045	0.043	£22.66	£17.28
ZG1-74	74	74.00	76.00	22	8	0.046	0.044	£24.54	£18.79
ZG1-76	76	76.00	78.00	22	8	0.049	0.046	£24.86	£19.04
ZG1-78	78	78.00	80.00	22	8	0.051	0.049	£25.22	£19.36
ZG1-80	80	80.00	82.00	22	8	0.054	0.051	£25.74	£19.71
ZG1-84	84	84.00	86.00	22	8	0.059	0.056	£26.11	£20.00
ZG1-88	88	88.00	90.00	22	8	0.065	0.062	£26.68	£20.47
ZG1-90	90	90.00	92.00	26	8	0.069	0.065	£30.55	£23.45
ZG1-96	96	96.00	98.00	26	8	0.078	0.074	£33.88	£25.97
ZG1-100	100	100.00	102.00	30	10	0.084	0.080	£37.76	£28.98
ZG1-112	112	112.00	114.00	30	10	0.105	0.101	£47.29	£36.24
ZG1-120	120	120.00	122.00	40	12	0.120	0.116	£58.32	£44.73
ZG1-130	130	130.00	132.00	40	12	0.140	0.136	£71.69	£53.01
ZG1-140	140	140.00	142.00	40	12	0.162	0.158	£88.35	£70.69

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

