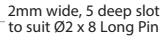


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Flange Input 0.94 – 3.75 Nm **6.66:1 - 80:1**



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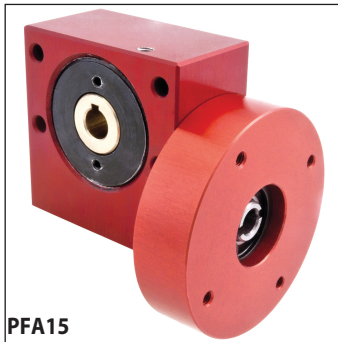
GEARBOXES

Precision Worm Gear Reducers

Flange Input 8.3 – 33.2 lbf.in **6.66:1 - 80:1**

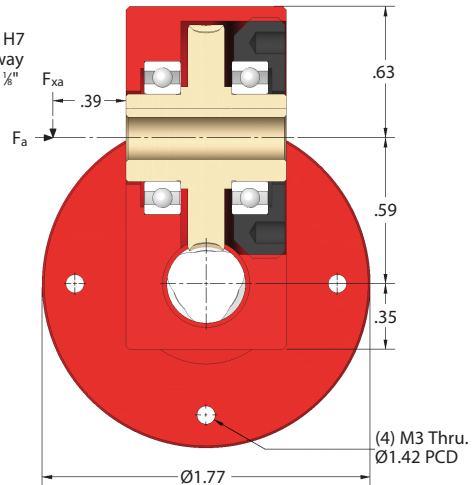
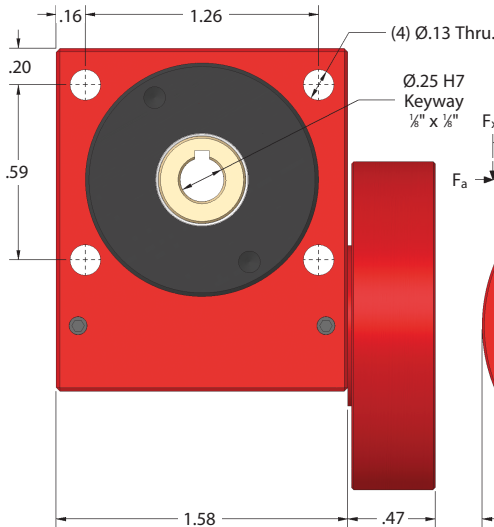
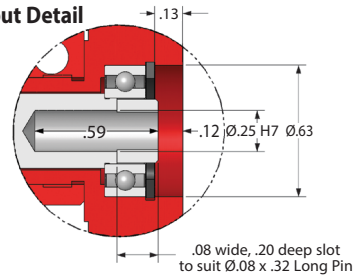
e-cad
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Available

PFA15



PFA15

Input Detail



Standard ≤30'	Part Number		Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
	Low Backlash ≤8'	Red. Backlash ≤4'				
PFA15-6	PFA15-6A	PFA15-6AR	6.66:1	86%	6.12 x 10 ⁻⁴	✖
PFA15-8	PFA15-8A	PFA15-8AR	8:1	85%	5.91 x 10 ⁻⁴	✖
PFA15-10	PFA15-10A	PFA15-10AR	10:1	84%	5.74 x 10 ⁻⁴	✖
PFA15-13	PFA15-13A	PFA15-13AR	13.33:1	78%	5.64 x 10 ⁻⁴	✖
PFA15-20	PFA15-20A	PFA15-20AR	20:1	71%	5.54 x 10 ⁻⁴	✖
PFA15-40	PFA15-40A	PFA15-40AR	40:1	60%	5.50 x 10 ⁻⁴	✖
PFA15-80	PFA15-80A	PFA15-80AR	80:1	32%	5.47 x 10 ⁻⁴	✖

Weight: 0.46 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.

F_{xa} at 1000 Rpm: 17.63 lb. **F_a at 1000 Rpm:** 6.61 lb.

Tapped holes on input flange are not relative in position to the gearbox body and will alter from box to box. However, we can machine the tapped holes after assembly so they are relative in position to the gearbox body. This will affect delivery.

Motor Inputs also available.

Testing in your application is necessary.

You will need to assess duty cycles and confirm gearbox suitability with your own calculations.

All figures listed are to be used for guidance only.

Output Torque lbf.in

Rpm Input	Reduction Ratio						
	6.66:1	8:1	10:1	13.33:1	20:1	40:1	80:1
3000	9.3	10.0	10.6	11.3	12.7	14.0	8.3
2000	11.3	11.3	11.9	11.9	14.0	15.9	9.5
1000	14.0	15.3	15.3	16.6	18.0	19.3	11.3
500	18.0	18.0	18.6	19.3	21.2	23.3	12.9
200	22.6	23.3	23.3	24.6	25.9	27.3	15.0
100	25.9	25.9	27.3	27.9	28.6	29.9	16.9
50	29.2	29.9	29.9	30.5	31.2	31.9	18.1
10	31.9	31.9	32.6	32.6	33.2	33.2	18.1

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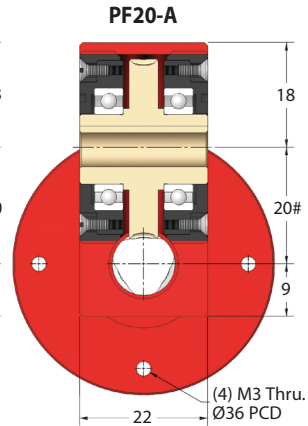
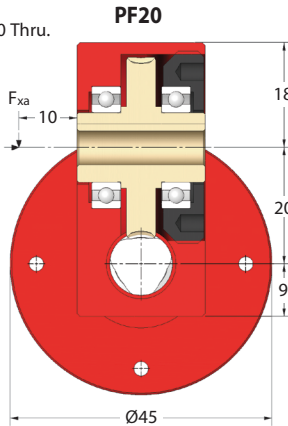
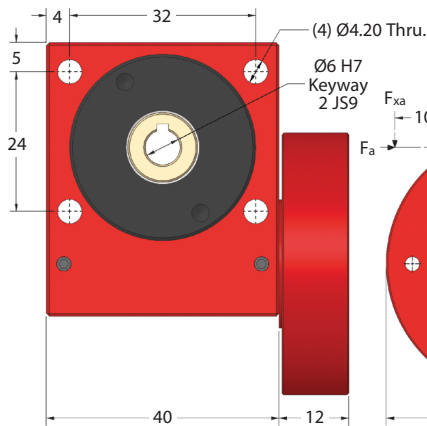
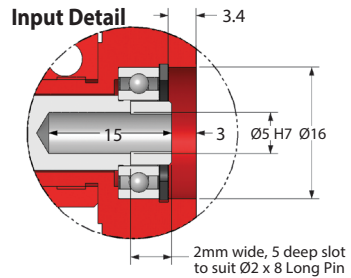
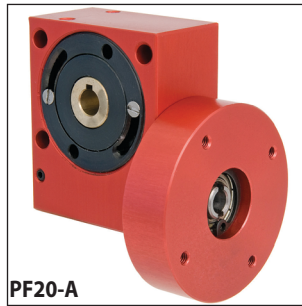
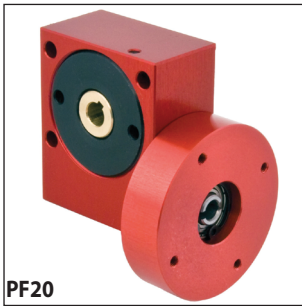
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PF20**e-cad**
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GEARBOXES

Precision Worm Gear Reducers

Flange Input 1.25 – 5 Nm **5:1 - 120:1**

PF20A version (low backlash) output is on eccentric so centres will vary

Standard ≤30'	Part Number		Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
	Low Backlash ≤8'	Red. Backlash ≤4'				
PF20-10	PF20-10A	PF20-10AR	10:1	86%	2.53 x 10 ⁻⁷	✗
PF20-12	PF20-12A	PF20-12AR	12:1	85%	2.43 x 10 ⁻⁷	✗
PF20-15	PF20-15A	PF20-15AR	15:1	84%	2.35 x 10 ⁻⁷	✗
PF20-20	PF20-20A	PF20-20AR	20:1	78%	2.28 x 10 ⁻⁷	✗
PF20-30	PF20-30A	PF20-30AR	30:1	71%	2.24 x 10 ⁻⁷	✗
PF20-60	PF20-60A	PF20-60AR	60:1	60%	2.21 x 10 ⁻⁷	✓
PF20-120	PF20-120A	PF20-120AR	120:1	32%	2.00 x 10 ⁻⁷	✓
PF20-SP	PF20-SPA	PF20-SPAR	5:1-120:1	Special Ratios : Replace SP with required ratio		

Accessories

P20-X	Single Output Shafts
P20-DX	Double Output Shafts
KK2-20	Output Key

Weight: 0.23 kg. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_{xa} at 1000 Rpm: 12 kg. **F_a at 1000 Rpm:** 5 kg.

Tapped holes on input flange are not relative in position to the gearbox body and will alter from box to box. However, we can machine the tapped holes after assembly so they are relative in position to the gearbox body. This will affect delivery.

Motor Inputs also available.

Testing in your application is necessary.

You will need to assess duty cycles and confirm gearbox suitability with your own calculations.

All figures listed are to be used for guidance only.

Output Torque Nm

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	1.40	1.50	1.60	1.70	1.90	2.10	1.25
2000	1.70	1.70	1.80	1.80	2.10	2.40	1.42
1000	2.10	2.30	2.30	2.50	2.70	2.90	1.70
500	2.70	2.70	2.80	2.90	3.20	3.50	1.94
200	3.40	3.50	3.50	3.70	3.90	4.10	2.27
100	3.90	3.90	4.10	4.20	4.30	4.50	2.55
50	4.40	4.50	4.50	4.60	4.70	4.80	2.72
10	4.80	4.80	4.90	4.90	5.00	5.00	2.72

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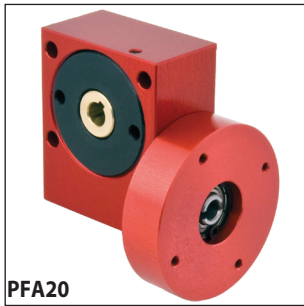
GEARBOXES

Precision Worm Gear Reducers

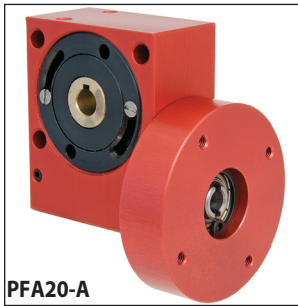
Flange Input 11.1 – 44.3 lbf.in **5:1 - 120:1**

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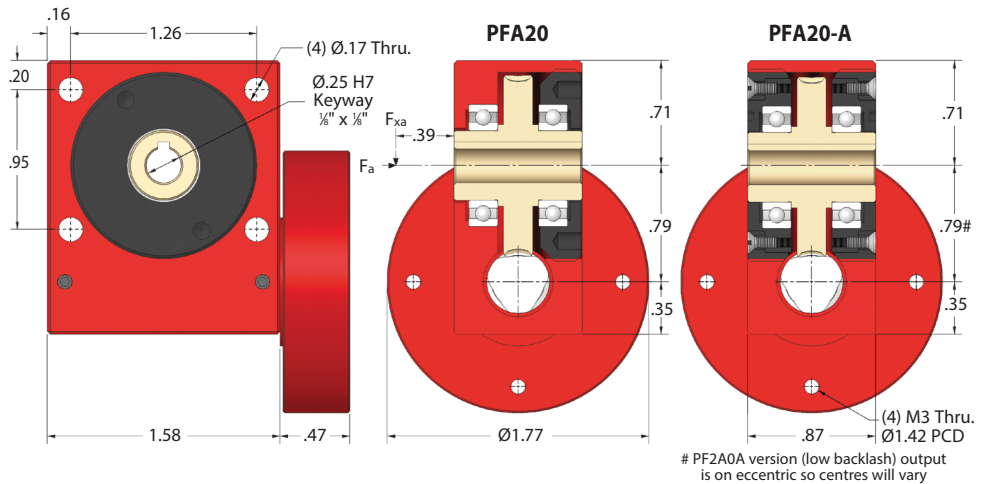
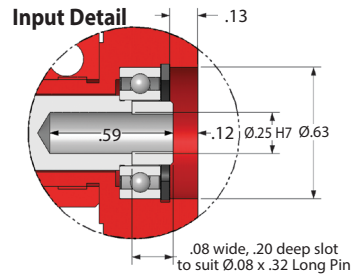
PFA20



PFA20



PFA20-A



PFA20A version (low backlash) output is on eccentric so centres will vary

Standard ≤30'	Part Number Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
PFA20-10	PFA20-10A	PFA20-10AR	10:1	86%	8.65 x 10 ⁻⁴	✗
PFA20-12	PFA20-12A	PFA20-12AR	12:1	85%	8.30 x 10 ⁻⁴	✗
PFA20-15	PFA20-15A	PFA20-15AR	15:1	84%	8.03 x 10 ⁻⁴	✗
PFA20-20	PFA20-20A	PFA20-20AR	20:1	78%	7.79 x 10 ⁻⁴	✗
PFA20-30	PFA20-30A	PFA20-30AR	30:1	71%	7.65 x 10 ⁻⁴	✗
PFA20-60	PFA20-60A	PFA20-60AR	60:1	60%	7.55 x 10 ⁻⁴	✓
PFA20-120	PFA20-120A	PFA20-120AR	120:1	32%	6.83 x 10 ⁻⁴	✓
PFA20-SP	PFA20-SPA	PFA20-SPAR	5:1-120:1	Special Ratios : Replace SP with required ratio		

Weight: 0.51 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.

F_a at 1000 Rpm: 26.46 lb. **F_a at 1000 Rpm:** 11.02 lb.

Tapped holes on input flange are not relative in position to the gearbox body and will alter from box to box. However, we can machine the tapped holes after assembly so they are relative in position to the gearbox body. This will affect delivery.

Motor Inputs also available.

Testing in your application is necessary.

You will need to assess duty cycles and confirm gearbox suitability with your own calculations.

All figures listed are to be used for guidance only.

Output Torque lbf.in

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	12.4	13.3	14.2	15.0	16.8	18.6	11.1
2000	15.0	15.0	15.9	15.9	18.6	21.2	12.6
1000	18.6	20.4	20.4	22.1	23.9	25.7	15.0
500	23.9	23.9	24.8	25.7	28.3	31.0	17.2
200	30.1	31.0	31.0	32.7	34.5	36.3	20.1
100	34.5	34.5	36.3	37.2	38.1	39.8	22.6
50	38.9	39.8	39.8	40.7	41.6	42.5	24.1
10	42.5	42.5	43.4	43.4	44.3	44.3	24.1

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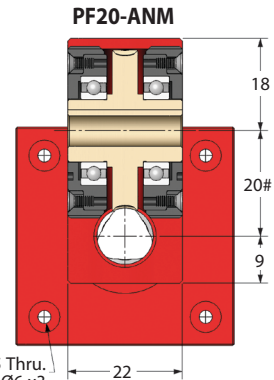
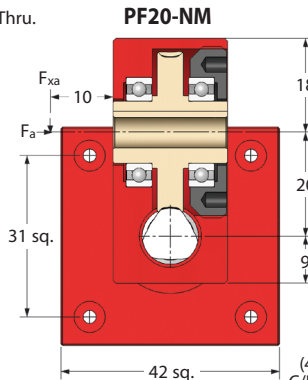
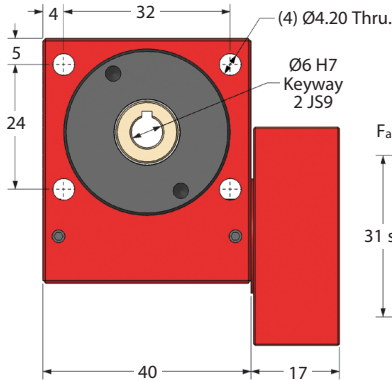
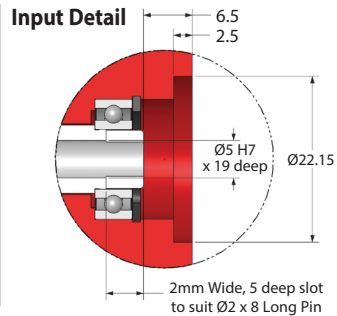
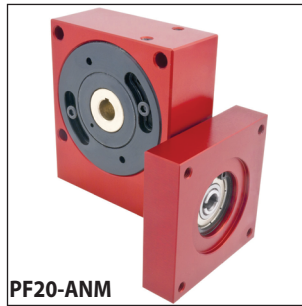
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PF20NM**e-cad**
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GEARBOXES

Precision Worm Gear Reducers

Nema 17 Flange Input 1.25 – 5 Nm **5:1 - 120:1**

PF20ANM version (low backlash) output is on eccentric so centres will vary

Part Number		Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
Standard ≤30	Low Backlash ≤8'				
PF20-10NM	PF20-10ANM	10:1	86%	2.53 x 10 ⁻²	✗
PF20-12NM	PF20-12ANM	12:1	85%	2.43 x 10 ⁻²	✗
PF20-15NM	PF20-15ANM	15:1	84%	2.35 x 10 ⁻²	✗
PF20-20NM	PF20-20ANM	20:1	78%	2.28 x 10 ⁻²	✗
PF20-30NM	PF20-30ANM	30:1	71%	2.24 x 10 ⁻²	✗
PF20-60NM	PF20-60ANM	60:1	60%	2.21 x 10 ⁻²	✓
PF20-120NM	PF20-120ANM	120:1	32%	2.00 x 10 ⁻²	✓
PF20-SPNM	PF20-SPANM	5:1-120:1	Special Ratios : Replace SP with required ratio		
Accessories					
P20-X			Single Output Shafts		
P20-DX			Double Output Shafts		
KK2-20			Output Key		

Weight: 0.23 kg. Greased for Life: Shell Gadus S5 V42P 2.5.
 F_{xa} at 1000 Rpm: 12 kg. F_a at 1000 Rpm: 5 kg.

Modifications and custom designed gearboxes available. Contact Sales for details.
 Testing in your application is necessary.
 You will need to assess duty cycles and confirm suitability with your own calculations.
 All figures listed are to be used for guidance only.

Output Torque Nm

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	1.40	1.50	1.60	1.70	1.90	2.10	1.25
2000	1.70	1.70	1.80	1.80	2.10	2.40	1.42
1000	2.10	2.30	2.30	2.50	2.70	2.90	1.70
500	2.70	2.70	2.80	2.90	3.20	3.50	1.94
200	3.40	3.50	3.50	3.70	3.90	4.10	2.27
100	3.90	3.90	4.10	4.20	4.30	4.50	2.55
50	4.40	4.50	4.50	4.60	4.70	4.80	2.72
10	4.80	4.80	4.90	4.90	5.00	5.00	2.72

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Precision Worm Gear Reducers

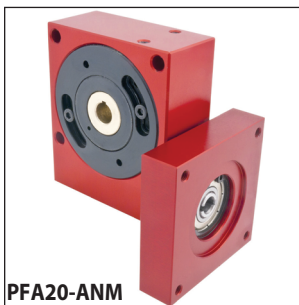
Nema 17 Flange Input 11 – 44.3 lbf.in **5:1 - 120:1**

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Drawings
Available

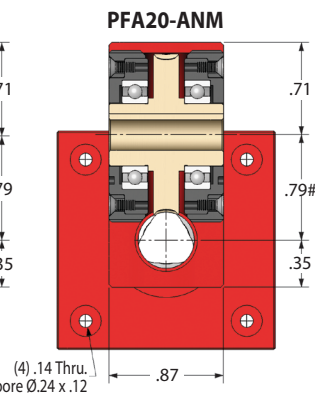
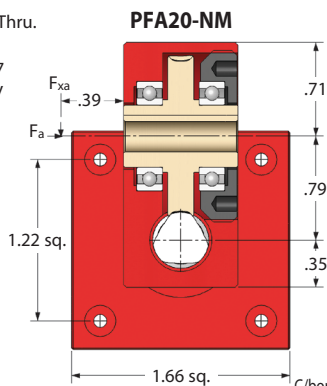
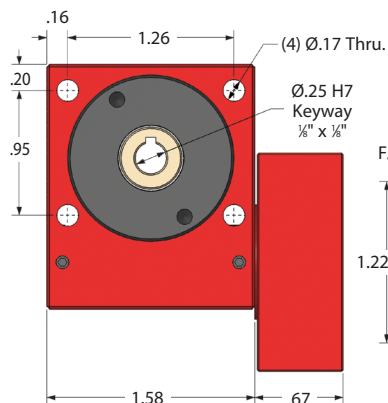
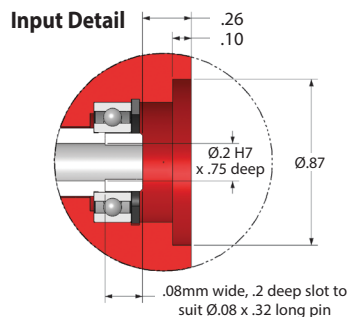
PFA20NM



PFA20-NM



PFA20-ANM



PFA20ANM version (low backlash)
output is on eccentric so centres will vary

Part Number		Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
Standard ≤30'	Low Backlash ≤8'				
PFA20-10NM	PFA20-10ANM	10:1	86%	8.65 x 10 ⁻⁴	✗
PFA20-12NM	PFA20-12ANM	12:1	85%	8.30 x 10 ⁻⁴	✗
PFA20-15NM	PFA20-15ANM	15:1	84%	8.03 x 10 ⁻⁴	✗
PFA20-20NM	PFA20-20ANM	20:1	78%	7.79 x 10 ⁻⁴	✗
PFA20-30NM	PFA20-30ANM	30:1	71%	7.65 x 10 ⁻⁴	✗
PFA20-60NM	PFA20-60ANM	60:1	60%	7.55 x 10 ⁻⁴	✓
PFA20-120NM	PFA20-120ANM	120:1	32%	6.83 x 10 ⁻⁴	✓
PFA20-SPNM	PFA20-SPANM	5:1-120:1	Special Ratios : Replace SP with required ratio		

Weight: 0.5 lb. Greased for Life: Shell Gadus S5 V42P 2.5.
F_a at 1000 Rpm: 26.46 lb. F_a at 1000 Rpm: 11.02 lb.

Modifications and custom designed gearboxes available. Contact Sales for details.
Testing in your application is necessary.
You will need to assess duty cycles and confirm suitability with your own calculations.
All figures listed are to be used for guidance only.

Output Torque lbf.in

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	12.4	13.3	14.2	15.0	16.8	18.6	11.1
2000	15.0	15.0	15.9	15.9	18.6	21.2	12.6
1000	18.6	20.4	20.4	22.1	23.9	25.7	15.0
500	23.9	23.9	24.8	25.7	28.3	31.0	17.2
200	30.1	31.0	31.0	32.7	34.5	36.3	20.1
100	34.5	34.5	36.3	37.2	38.1	39.8	22.6
50	38.9	39.8	39.8	40.7	41.6	42.5	24.1
10	42.5	42.5	43.4	43.4	44.3	44.3	24.1

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