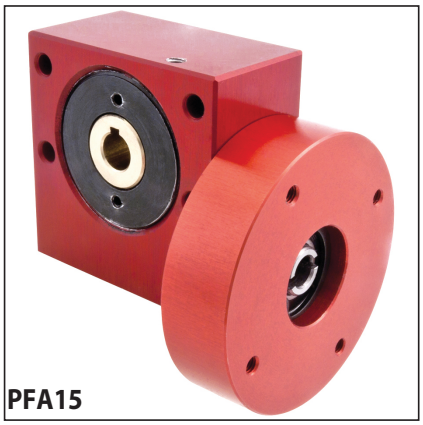
GEARBOXES

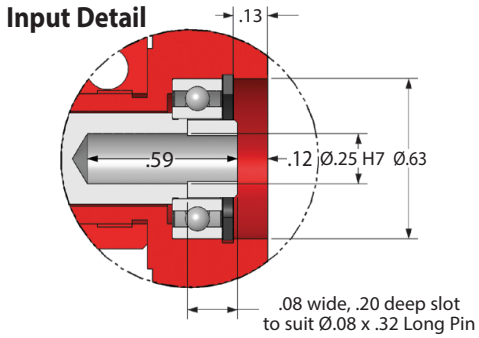
Precision Worm Gear Reducers

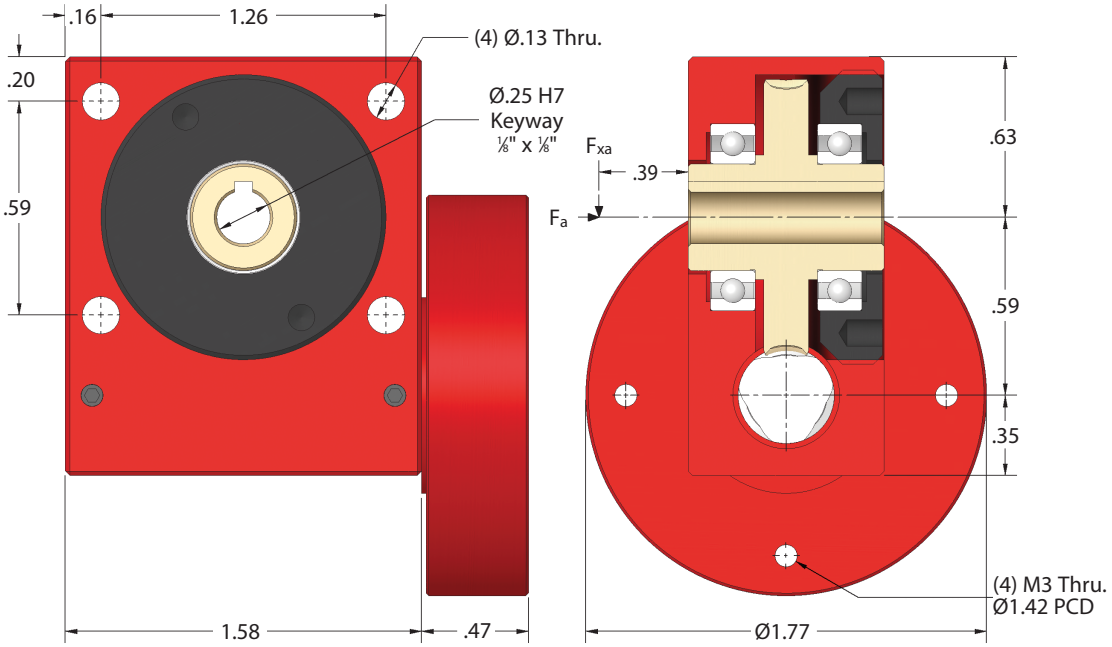
Flange Input 8.3 – 33.2 lbf.in ***6.66:1 - 80:1***

e-cad Drawings Available

PFA15







Part Number Standard ≤30'	Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in²)	Self Locking Output
PFA15-6	PFA15-6A	PFA15-6AR	6.66:1	86%	6.12×10^{-4}	✖
PFA15-8	PFA15-8A	PFA15-8AR	8:1	85%	5.91×10^{-4}	✖
PFA15-10	PFA15-10A	PFA15-10AR	10:1	84%	5.74×10^{-4}	✖
PFA15-13	PFA15-13A	PFA15-13AR	13.33:1	78%	5.64×10^{-4}	✖
PFA15-20	PFA15-20A	PFA15-20AR	20:1	71%	5.54×10^{-4}	✖
PFA15-40	PFA15-40A	PFA15-40AR	40:1	60%	5.50×10^{-4}	✖
PFA15-80	PFA15-80A	PFA15-80AR	80:1	32%	5.47×10^{-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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