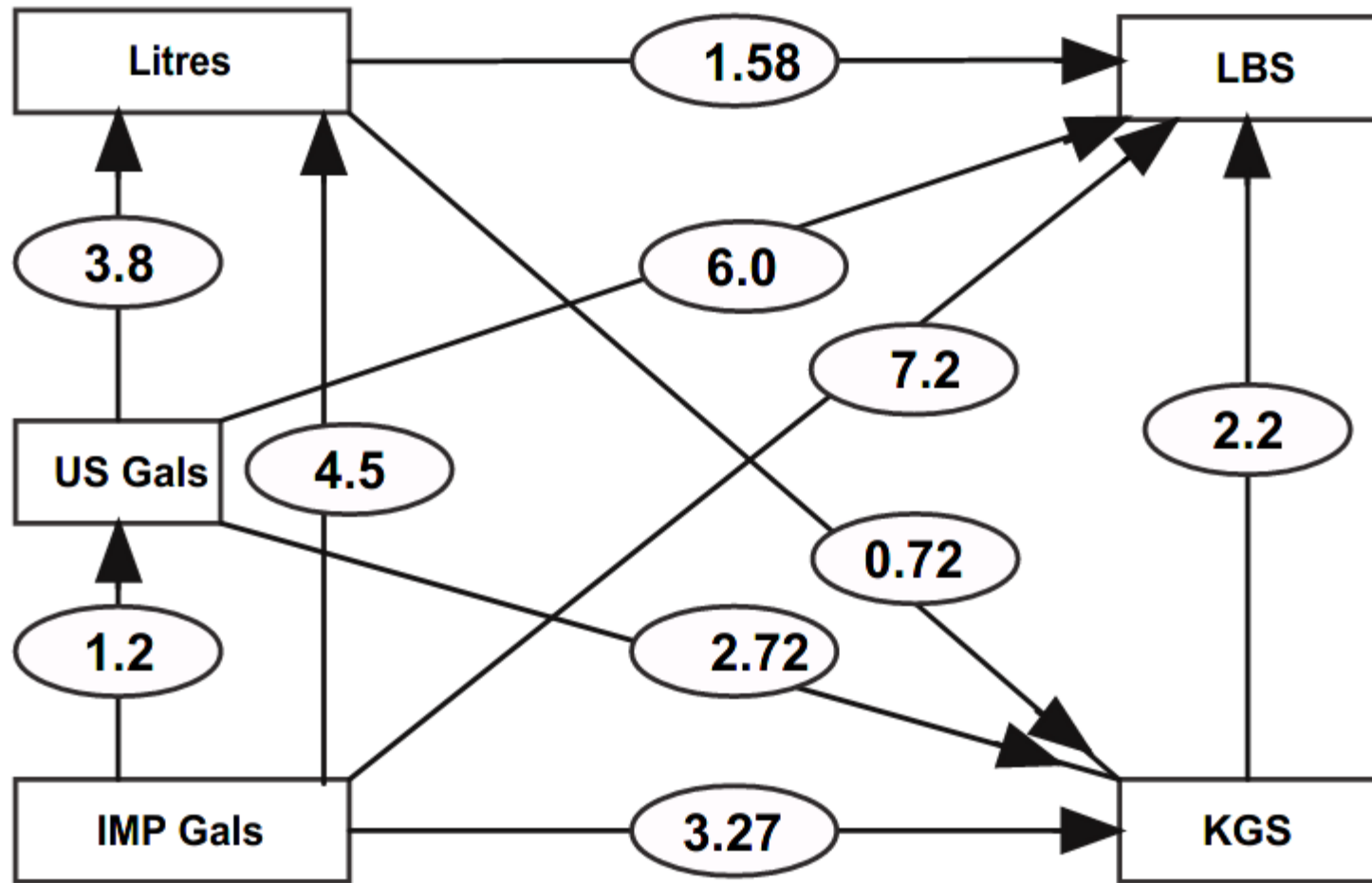


2. GENERAL CONVERSIONS

TO CONVERT	INTO	MULTIPLY BY
Celsius	Fahrenheit	1.8 and add 32
Centimetres	Inches	0.394
Feet	Metres	0.3048
Fahrenheit	Celsius	Subtract 32 and multiply by 0.555
IMP Gallons	US Gallons	1.200
IMP Gallons	Litres	4.546
Inches	Centimetres	2.540
Kilograms	Pounds	2.2046
Kilometres	Nautical Miles	0.540
Kilometres	Statute Miles	0.621
Kilopascals	Pound/Square Inch	0.145
Litres	IMP Gallons	0.220
Litres	US Gallons	0.264
Metres	Feet	3.281
Metres	Yards	1.094
Pounds	Kilograms	0.4536
Pounds/Square Inch	Kilopascals	6.895
Nautical Miles	Kilometres	1.852
Nautical Miles	Metres	1852
Nautical Miles	Statute Miles	1.151
Statute Miles	Kilometres	1.609
Statute Miles	Nautical Miles	0.868
US Gallons	IMP Gallons	0.833
US Gallons	Litres	3.79
Yards	Metres	0.914



AVGAS

Eurofox 3K

Station	Weight (kg)	Litres	Arm (mm)	Moment (kg/mm)
BEW				
Crew				
Baggage				
ZFW				
Fuel				
TOTAL				

1. Enter Basic Empty Weight (BEW) from flight manual (kg)
2. Enter Crew weight (kg)
3. Enter Baggage weight (kg)
4. Calculate Zero Fuel Weight (ZFW)
5. Enter fuel quantity (Litres)
6. Calculate TOTAL weight
7. Enter Empty aircraft arm from flight manual (mm)
8. Enter each station arm from flight manual (mm)
9. Calculate each station moment by multiplying Weight by Arm (kg/mm)
10. Calculate ZFW moment by adding BEW, Crew, Baggage moments
11. Calculate TOTAL moment by adding ZFW moment and Fuel moment
12. Calculate ZFW Arm by dividing ZFW moment by ZFW weight
13. Calculate TOTAL Arm by dividing TOTAL moment by TOTAL weight
14. Ensure within weight limitations
 - MTOW 560 kg
 - MLW 560 kg
 - Max baggage 20kg
 - Minimum Crew 54 kg
15. Ensure within CG/Arm limitations, which are found in the flight manual
 - At Zero Fuel Weight
 - At TOTAL Weight

• ZFW = BEW + Crew + Baggage
 • TOTAL = ZFW + Fuel
 • Moment = Weight x Arm
 • Arm = Moment ÷ Weight
 • 1 Litre of fuel weighs 0.72kg