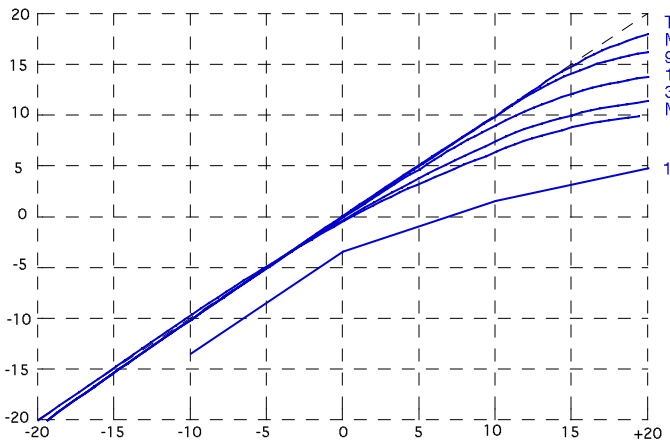
MANLEY VARIABLE MU LIMITER COMPRESSOR



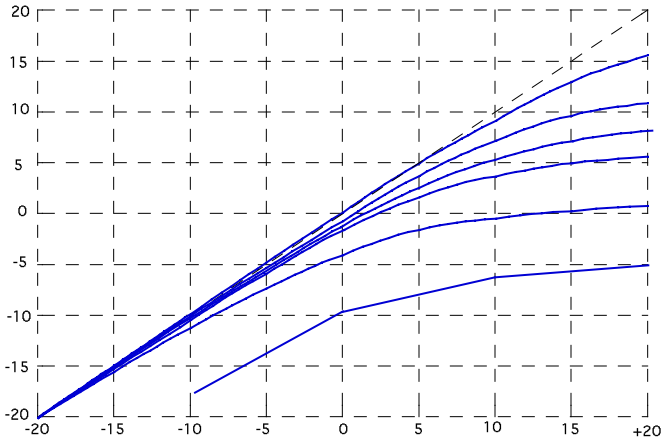
THRESHOLD
MAXIMUM
9
12
3
MINIMUM

1:1 THEN 2:1 THEN 3:1 REFERENCE LINE

THESE ARE TYPICAL SETTINGS AND G.R. CURVES:
NOTICE THE SMOOTHNESS AT THE ON-SET OF GAIN REDUCTION ESPECIALLY AT "DRASTIC" SETTINGS.

WITH ABOUT 2 dB OF GR THE RATIO IS APPROX 1.5:1
WITH ABOUT 5 dB THE RATIO BECOMES 2:1
WITH ABOUT 10 dB THE RATIO BECOMES 5:1

COMPRESS MODE, INPUT = 12:00, OUTPUT APROX 12:00



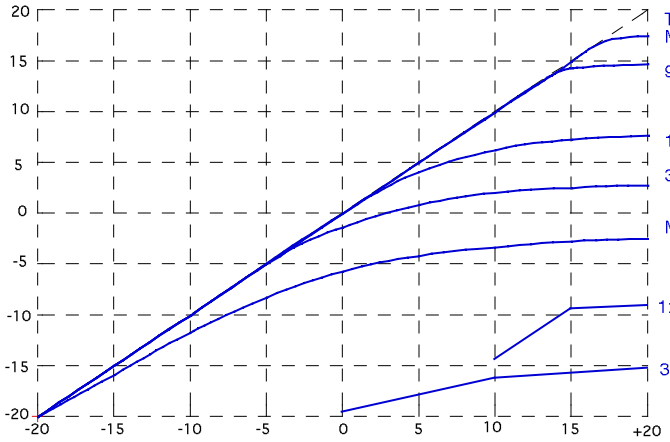
THESE CURVES SHOW MORE EXTREME SETTINGS:

NOTICE WHEN DRIVEN VERY HARD THE COMPRESS RATIO BECOMES 8:1 OR NEAR SO CALLED LIMITING.

ALL CURVES SHOW A "SOFT ROUND KNEE" STARTING WITH LOW RATIOS IN TYPICAL SETTINGS AND INCREASING ONLY WHEN GAIN REDUCTION PASSES 10 dB.

1.2:1 THEN 3:1 THEN 9:1 REFERENCE LINE

COMPRESS MODE, THRESHOLD AT 12:00,
INPUT / OUTPUT ADJUSTED FOR VARIOUS UNITY SETTINGS



THRESHOLD
MAXIMUM
9
12
3
MINIMUM

AS THE THRESHOLD IS LOWERED THE KNEE BECOMES VERY SOFT (ROUND) SO THAT THE UNIT BEHAVES MORE LIKE A COMPRESSOR AND SLOWLY REACHES LIMITING.

1:1 (LINEAR)THEN 12:1 REFERENCE LINE

3:1 THEN 9:1 REFERENCE LINE

These reference lines are to help visualize or compare the ratios with conventional comp-limiters. Because our GR curves can be very rounded in some settings, it becomes difficult to specify the ratio accurately. The lines are simplified straight line approximations of some of the curves. Without them, you might need to count squares to estimate ratios. Many limiters have GR curves that can be drawn with a ruler. Not this one.

LIMIT MODE, INPUT = 12:00, OUTPUT APROX 12:00