

CONVERSION FORMULAS: Change Gears to Calibrators

MCTII Compound Meters on MFII Bypass: Cubic Foot Registers

STEP 1: Insert Change Gear Numbers and the Standard Register Ratio for the Chamber Size into formula.

STEP 2: Perform the calculation.

STEP 3: Match answer to the chart below to determine the equivalent Calibrator part number.

STEP 4: If the answer was below 1.025 recalculate with the +10% register ratio.

STEP 5: If the answer was above 1.138 recalculate with the -10% register ratio.

2" MCTII Mainline Register	
Driven ÷ Driver x 298.7 ÷ Register Ratio = Answer	
Standard Register Ratio =	337.43
- 10% Register Ratio =	371.1
+ 10% Register Ratio =	303.75

4" MCTII Mainline Register	
Driven ÷ Driver x 512 ÷ Register Ratio = Answer	
Standard Register Ratio =	642.55
- 10% Register Ratio =	706.59
+ 10% Register Ratio =	578.63

2" MCTII Bypass Register	
Driven ÷ Driver x 384 ÷ Register Ratio = Answer	
Standard Register Ratio =	296.63
- 10% Register Ratio =	326.27
+ 10% Register Ratio =	266.97

4" MCTII Bypass Register	
Driven ÷ Driver x 94.6 ÷ Register Ratio = Answer	
Standard Register Ratio =	99.64
- 10% Register Ratio =	109.6
+ 10% Register Ratio =	89.65

3" MCTII Mainline Register	
Driven ÷ Driver x 192 ÷ Register Ratio = Answer	
Standard Register Ratio =	142.31
- 10% Register Ratio =	156.52
+ 10% Register Ratio =	128.08

6" MCTII Mainline Register	
Driven ÷ Driver x 192 ÷ Register Ratio = Answer	
Standard Register Ratio =	256.67
- 10% Register Ratio =	282.36
+ 10% Register Ratio =	231

3" MCTII Bypass Register	
Driven ÷ Driver x 384 ÷ Register Ratio = Answer	
Standard Register Ratio =	223.45
- 10% Register Ratio =	245.8
+ 10% Register Ratio =	201.09

6" MCTII Bypass Register	
Driven ÷ Driver x 384 ÷ Register Ratio = Answer	
Standard Register Ratio =	443.88
- 10% Register Ratio =	488.22
+ 10% Register Ratio =	399.5

Match your answer to a Calibrator Part Number below.				
Range	to	Range	Calibrator Part #	
1.025	to	1.030	use C65341	+5.0%
1.031	to	1.035	use C65342	+4.5%
1.036	to	1.040	use C65343	+4.0%
1.041	to	1.046	use C65344	+3.5%
1.047	to	1.052	use C65345	+3.0%
1.053	to	1.057	use C65346	+2.5%
1.058	to	1.062	use C65347	+2.0%
1.063	to	1.068	use C65348	+1.5%
1.069	to	1.073	use C65349	+1.0%
1.074	to	1.078	use C653410	+0.5%
1.079	to	1.084	use C653411	nominal
1.085	to	1.090	use C653412	-0.5%
1.091	to	1.096	use C653413	-1.0%
1.097	to	1.100	use C653414	-1.5%
1.101	to	1.105	use C653415	-2.0%
1.106	to	1.111	use C653416	-2.5%
1.112	to	1.117	use C653417	-3.0%
1.118	to	1.121	use C653418	-3.5%
1.122	to	1.128	use C653419	-4.0%
1.129	to	1.132	use C653420	-4.5%
1.133	to	1.138	use C653421	-5.0%

Sealed Register Part Numbers for MCTII on MFII*				
	2" Main	2" BP	3" Main	3" BP
STD	D353314	D353311	D35335	D35338
- 10%	D355614	D355611	D35565	D35568
+ 10%	D355814	D355811	D35585	D35588
	4" Main	4" BP	6" Main	6" BP
STD	D353319	D35333	D353310	D353318
- 10%	D355619	D35563	D355610	D355618
+ 10%	D355819	D35583	D355810	D355818
* For standalone MCTII registers see PB1042				
** For Translator Encoder Register Part Numbers Please Contact Hersey Customer Service.				

 <p>Hersey Customer Service (800)323-8584 www.herseymeters.com</p>
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