

117-190 ALTO®



Round Front, SmartHeight™, Vitreous China, Two-Piece Toilet

FEATURES



- 3-bolt SmartFasten™ tank-to-bowl connection
- 1.6 gpf / 6.0 lpf low water consumption
- Round front SmartHeight™ bowl
- 2" Flush tower
- Fluidmaster® anti-siphon pilot fill valve
- 12" rough-in
- Model 40 color-match, plastic trip lever
- Lined tank for reduced condensation
- 2" glazed trapway
- The Mansfield® Limited Lifetime Warranty
- Available in White



MODEL 117-190
Toilet seat not included



COMPONENTS

MODEL #	DESCRIPTION	CODES/STANDARDS
117-190	Round front, SmartHeight™ two-piece toilet.	 
117	Round front, SmartHeight™ toilet bowl only. Less toilet seat. Specify color.	
190	Tank and cover only with left hand, front-mount, color-match, plastic trip lever. Fluidmaster® anti-siphon pilot fill valve. Tank liner. Less supply.	
TANK TRIM & REPLACEMENT PARTS		
40	Trip lever - color-match, plastic trip lever, left hand	
211-1112	Flush tower	
400A	Fluidmaster® anti-siphon pilot fill valve	
630-0030	Replacement flush valve seal	
160-LID	Tank lid	



When properly installed, this product meets the requirements for the Americans with Disabilities Act of 1990 (ADA). Refer to local plumbing codes, as they may vary by location and application.

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SPECIFICATIONS

MODEL #	DESCRIPTION	CODES/STANDARDS
117-190	Round front SmartHeight™ (1.6 gpf / 6.0 lpf) two-piece toilet	 

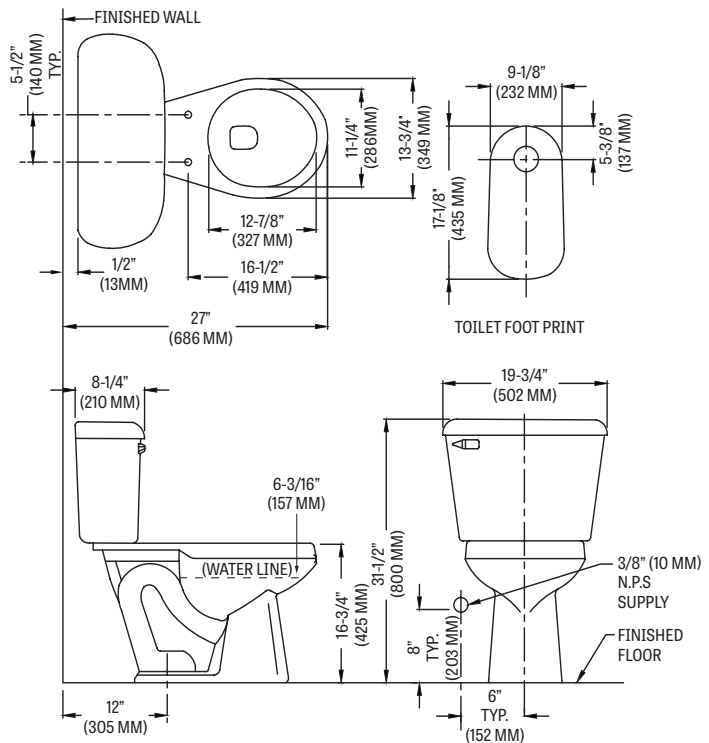
MATERIAL	Vitreous China
WATER PRESSURE RANGE	20 to 80 PSI
FLUSH SYSTEM	2" Flush Tower
WATER USAGE	1.6 gpf / 6.0 lpf
WATER SURFACE AREA	8" X 9"
ROUGH-IN	12"
MaP RATING	800 grams

TRAP DIAMETER	2"
TRAP SEAL	2-7/8"
SHIPPING WEIGHT	Model 117 - 49 lbs. (22.2 kg) Model 190 - 34 lbs. (15.4 kg)
WARRANTY	Vitreous China - Limited Lifetime Tank Trim - Limited One Year

TANK OPTIONS	TECHNICAL INFORMATION
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160	Standard 1.6 gpf configuration: 2" flush tower, Fluidmaster® anti-siphon pilot fill valve, left hand, chrome trip lever.
160RH	Variation of model 160, with right hand trip lever.
165	Variation of model 160, with cover lock.
170	Variation of model 160, with tank liner.
172	Variation of model 160, with 2" flapper flush valve and chrome trip lever.
173	Variation of model 160, with 2" flapper flush valve and color-match trip lever.
173RH	Variation of model 173, with right hand trip lever.
174	Variation of model 173, with tank liner.
175	Variation of model 160, with cover lock and tank liner.
180	Variation of model 160, with color-match trip lever.
190	Variation of model 160, with color-match trip lever and tank liner.
125	Variation of model 160, with 14" rough-in.

Note: these dimensions are nominal and subject to change without notice.



Fixture performance and specifications meet or exceed ASME A112.19.2/CSA B45.1 standards, and other state and local codes.