

Kleiss Economics: Steel Project Cost Comparison

Kleiss MCS System vs. Traditional Stopping System

There are three main features of the Kleiss MCS Flow Stopping Systems that contribute to the overall savings on typical tapping and stopping jobs – simplicity, lightweight components, and compact size. There are also intangible savings inherent with the portable, ergonomic Kleiss Systems – less manhandling and fatigue make for a safer and more productive work environment.

Example: Below is an example of an 8” steel project - double block and bleed with two stops on the main - located in a congested urban area. Our assumptions* are based on customer input and our experience. Plug in your numbers on the right and compare them to the cost savings with the Kleiss MCS60-38 System on the left.

EXCAVATION PROCESS AND SETUP

Excavation Time = 1 hour x 2 (2 - 4'W x 8'L holes / only pipe top exposed with limited access below)	\$300	\$450	Excavation Time = 1-1/2 hours x 2 (2 - 6'W x 10'L holes / pipe top & bottom are exposed completely)
Permitting = \$200 per sq ft to open hole	\$6,400	\$12,000	Permitting = \$200 per sq ft to open hole
Crane Time	\$0	\$2,000	Crane Time = 8 hour availability

PIPE AND FITTING PREPARATION

Fitting Cost = \$285 x 4	\$1,140	\$2,840	Fitting Cost = \$1,420 x 2
Weld Time = 30 mins x 4	\$300	\$1,200	Weld Time = 4 hours x 2
Blocking Up Fittings	\$0	\$300	Blocking Up Fittings = 1 hour x 2
Additional Fittings	\$0	\$200	Additional Fittings = \$100 x 2
Additional Fittings Weld Time	\$0	\$150	Additional Fittings Weld Time = 30 mins x 2
Additional Fittings Equipment Setup, Tap, & Completion	\$0	\$150	Additional Fittings Equipment Setup, Tap, & Completion = 30 mins x 2

DRILLING TIME

Drilling Time = 15 mins per fitting x 4	\$150	\$600	Setup, Alignment, & Drilling Time = 2 hours x 2
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STOPPER SETTING TIME

Tool Setup & Stop Time = 20 mins x 4	\$200	\$300	Tool Setup & Stop Time = 1 hour x 2
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TOOL REMOVAL AND COMPLETION TIME

Stopper Removal = 10 mins x 4	\$100	\$300	Stopper Removal = 1 hour x 2
Set Completion Plug = 5 mins x 4	\$50	\$300	Set Completion Plug = 1 hour x 2
Clean & Inspect Tools / Pack Up = 1 hour	\$150	\$150	Clean & Inspect Tools / Pack Up = 1 hour

TOTAL COST DIFFERENCE	\$8,790	\$20,940
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Kleiss MCS60-38 System

Traditional Stopping System

Assumptions:

- * \$150 loaded hourly labor rate
- * \$250 loaded hourly crane rate
- * Same basic number of laborers on each job site due to safety practices, however the Kleiss System can be operated with a minimum of two personnel, if desired

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