Shaded area indicates change Rev. 12-12

MUELLER® C1-36™ Machine Features



- □ Automatic Feed Setting the amount of travel required in automatic feed can be quickly and accurately set in inches. This amount is clearly shown on the automatic feed travel indicator to assure accurate settings every time.
- ☐ **Rapid Hand Travel** when not cutting, the boring bar can be quickly and easily advanced or retracted by hand, reducing time of operation.
- □ Automatic Feed Travel Indicator as the cut progresses, the direct reading indicator automatically shows the amount of travel remaining in automatic feed. How much of the cut remains to be made is always known.
- □ Rugged Construction all working parts are totally enclosed in a strong metal housing to permit complete lubrication and prevent damage from dirt and other foreign matter.
- ☐ Hand or Power Operation may be hand operated with ratchet handle provided or power operated with MUELLER H-614 air power operator or H-607 hydraulic power operator

hydraulic power operator.

- □ O-Ring Boring Bar and Seal
- ☐ **Handling Ease** conveniently placed handles and rear lifting yoke aid in handling the machine.
- ☐ **Feed "Over Travel"** feature prevents damage to equipment.

Rev. 11-18 Shaded area indicates changes

| Mueller® C1-36 Drilling Machine - for drilling | operations under pressure - |
|--|-----------------------------|
| 1-1/2" to 12" inclusive | |

| Catalog | number - | 39260 / | 6:1 | feed | ratio |
|---------|----------|---------|-----|------|-------|
| | | | | | |

| □ Hand or | power o | peration |
|-----------|---------|----------|
|-----------|---------|----------|

| _ | D | • | | | |
|----|--------------|-------------|------------------|-------------------|---------|
| 11 | I Jacianad 1 | tor lica on | pressurized or u | INNTACCITIZAN | maine |
| _ | Designed | ioi usc oii | prossurized or t | 11 IDI C33UI IZCU | HIIAHIS |

- ☐ Used to cut 1-1/2" to 12" holes
- ☐ 36" (914 mm) boring bar travel
- ☐ Use on cast iron pipe ductile iron pipe steel pipe
- ☐ Will make cuts through line stopper fittings, flanged tees and nipples from 3" to 12"
- □ 500 psig (3447 kPa) maximum working pressure at 100 F (38 C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling operation has a maximum working pressure or temperature rating less than that specified above.

Equipment furnished with each Mueller C1-36 Drilling Machine

- ☐ Wooden Storage Chest (680285 not shown)
- □ Ratchet Handle (85308)
- ☐ T-handle Socket Wrench (59839)
- ☐ Four Double Open End Wrenches (96536, 56680, 58196, and 55726)
- ☐ Eight Machine to Adapter Bolts and Nuts (56682)
- ☐ Eight Machine to Adapter Washers (55409)
- ☐ Machine to Adapter Gasket (**55449**)
- ☐ Cutting Grease (88366)
- ☐ Instruction Manual Form 8513

Equipment to be selected

- ☐ Shell cutters, drills, pilot drills, cutter arbors, and cutter hubs
- □ Machine adapters
- □ Power operators
- ☐ Optional: 10" long crank handle and lifting yoke (681520)



| Weight | | | | | | | |
|-----------------------|-------------------|--|--|--|--|--|--|
| Total shipping weight | 424 lbs. (191 kg) | | | | | | |
| Machine only weight | 270 lbs. (120 kg) | | | | | | |
| Machine length | 51 ½" | | | | | | |
| Widerline length | 01 /2 | | | | | | |

Operations that can be performed using the MUELLER C1-36 Drilling Machine

| Fishing a farma | | Size* of fitting | | | | | |
|---------------------------------|----|------------------|----|----|-----|-----|-----------|
| Fitting type | 3" | 4" | 6" | 8" | 10" | 12" | Operation |
| Regular Line Stopper Fittings | X | Х | X | X | X | Х | Cut main |
| Bottom Out Stopper Fittings | X | Х | Х | Х | Х | Х | Cut main |
| Thin Wall Line Stopper Fittings | | | Х | Х | | | Cut main |
| Extension Stopper Fittings | Х | Х | X | Х | | | Cut main |
| Flanged Tees | Х | Х | Х | X | | | Cut main |
| Save-A-Valve® Drilling Nipple | | Х | Х | Х | | | Cut main |

^{*} Nominal size

Note: Gear Oil is recommended and available in pints (part no. 89273), gallons (part no. 89347) and 7-pint container (part no. 89346).



Shaded area indicates change Rev. 11-18

| Mueller® C1-36-99002 Drilling Machine - for drilling operations |
|---|
| under pressure - 1-1/2" to 12" inclusive |
| 7 |

| Ш | Catalog number C1-36-99002 (part number 39262) / 8:1 feed ratio |
|---|--|
| | Hand or power operation |

☐ Designed for use on pressurized or unpressurized mains

☐ Used to cut 1-1/2" to 12" holes

☐ 36" (914 mm) boring bar travel

☐ Use on cast iron pipe • ductile iron pipe • steel pipe

☐ Will make cuts through line stopper fittings, flanged tees and nipples from 3" to 12"

□ 500 psig (3447 kPa) maximum working pressure at 100 F (38 C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling operation has a maximum working pressure or temperature rating less than that specified above.

Equipment furnished with each Mueller C1-36-99002 Drilling Machine

| | Wooden storage | chest | (682085 | not shown |) |
|--|----------------|-------|---------|-----------|---|
|--|----------------|-------|---------|-----------|---|

☐ Ratchet handle (85308)

☐ T-handle Socket wrench (**59839**)

☐ Four double open end wrenches (96536, 56680, 58196, & 55726)

☐ Eight machine to adapter bolts and nuts (56682)

☐ Eight machine to adapter washers (**55409**)

☐ Machine to adapter gasket (55449)

☐ Cutting grease (88366)

☐ Instruction manual (Form #8513)

Equipment to be selected:

| п | Shall cuttors | drille | nilat drille | cutter arhore | and cutter hubs |
|---|---------------|--------|--------------|---------------|-----------------|
| | | | | | |

□ Machine adapters

□ Power operators

☐ Optional: 10" long crank handle and lifting yoke (681520)



| Weight | | | | | | | |
|-----------------------|-------------------|--|--|--|--|--|--|
| Total shipping weight | 424 lbs. (191 kg) | | | | | | |
| Machine only weight | 270 lbs. (120 kg) | | | | | | |
| Machine length | 51 ½" | | | | | | |



MUELLER® C1-36™ DRILLING MACHINE EQUIPMENT FOR LINE STOPPER FITTINGS

Rev. 11-18 Shaded area indicates changes

Mueller C1-36 Drilling Machine Shell Cutters, Pilot Drills and Cutter Hubs used to install Mueller Line Stopper Fittings

These shell cutters, pilot drills and cutter hubs are used with the Mueller C1-36 drilling machine to install 3"-12" Mueller line stopper fittings.









Tipped shell cutter

Pilot drill

Shell cutter

Cutter hub

Shell cutters, hubs and pilot drills

| | | Line stopper unit number | | | | | | | |
|----------------------------|---------------------|--------------------------|---|---------|-------------------|-----------|-------------------|--------------------|--|
| | | 2 | 2 2, 3SW and 3SW-500 3, 3SW and 3SW-500 | | | | | 4SW | |
| Line stopper fitting size* | | 3" | 4" | 6" | 6" (thin wall) | 8" | 8" (thin wall) | 10" & 12" | |
| Size of shell cutter> | | 3-1/4" | 4-1/4" | 6-1/4" | 6-1/2" | 8-1/4" | 8-1/2" | 12-1/2" | |
| Equipment | Tipped shell cutter | _ | 682879 | 682885 | 682876 | 682877 | 682878 | 682780 † 682884 | |
| | Shell cutter | 36463 | 36472 | 36548 | 63146 | 36521 | 63115 | _ | |
| | Cutter hub | 88101 | 54526 | 54501 | 83760 | 54653 | 83762 | 682782 | |
| | Pilot drill | 36464 | 580585* | 580585* | 83639 | 580586 †† | 83675 | 682781 | |

^{† 682780 -} good up to .375" wall pipe 682884 - good up to .406" wall pipe

Mueller C1-36 Drilling Machine Line Stopper adapters

These adapters are required to permit the C1-36 drilling machine to be attached to MUELLER gate valves when cutting 3"-12" Mueller line stopper fittings.



Line Stopper Fitting adapter

| Line stopper unit number: | No. 2 | No. 3 | No. 3SW | No. 3SW-500 | 4SW |
|---------------------------|-----------|-----------|---------------|---------------|-------------|
| Size of fitting* | 3" and 4" | 6" and 8" | 4", 6" and 8" | 4", 6" and 8" | 10" and 12" |
| Adapter part number | 36343 | 36545 | 36545 | 83730 | 83323 |
| Maximum working pressure* | 275 psi | 275 psi | 275 psi | 500 psi | 500 psi |

^{*} Nominal size

^{*}Alternate drill with coupon retaining threads # 36338

^{††}Alternate drill with coupon retaining threads # 36572

Shaded area indicates change Rev. 6-10

Mueller C1-36 Drilling Machine drilling and cutting tools

The Mueller C1-36 Drilling Machine equipment shown below is used to cut through Mueller Save-A-Value® Drilling Nipples, Extension Stopper Fittings, and Flanged Tees.







Pilot drill

Shell cutter

Cutter hub

Drill

Shell cutters, hubs and drills

| Material of place to be seen | - | | | Sizes* | of fitting | | |
|------------------------------|--------------|--------|--------|--------|------------|--------|-----------|
| Material of pipe to be cut | Equipment | 3" | 4" | 6" | 8" | 10" | 12" |
| Size of shell cutter | > | 2-1/2" | 3-1/2" | 5-1/2" | 7-1/2" | - | - |
| | Shell cutter | 51899 | 51903 | 63787 | 51897 | - | 80548 |
| Cast or ductile iron pipe | Cutter hub | 88338 | 88340 | 63978 | 33996 | - | 33107 |
| non pipe | Pilot drill | 33976 | 33976 | 59845 | 64245 | - | 54489 |
| | Set Screw | 33509 | 33509 | - | - | - | - |
| Size of shell cutter | > | 2-1/2" | 3-1/2" | 5-1/2" | 7-1/2" | 9-1/2" | 10-13/16" |
| | Shell cutter | 33518 | 33519 | 36004 | 33999 | 33244 | 33243 |
| Steel pipe | Cutter hub | 88338 | 88340 | 63978 | 33996 | 33250 | 33107 |
| | Pilot drill | 33976 | 33976 | 36005 | 64244 | 36338* | 36338* |
| | Set Screw | 33509 | 33509 | - | - | - | - |

^{*}Alternate drill with detents # 580585

Mueller C1-36 Drilling Machine Flanged Adapters

These adapters are required to permit the C1-36 Drilling Machine to be attached to tap through extension stopper fittings and for lateral tapping operations.



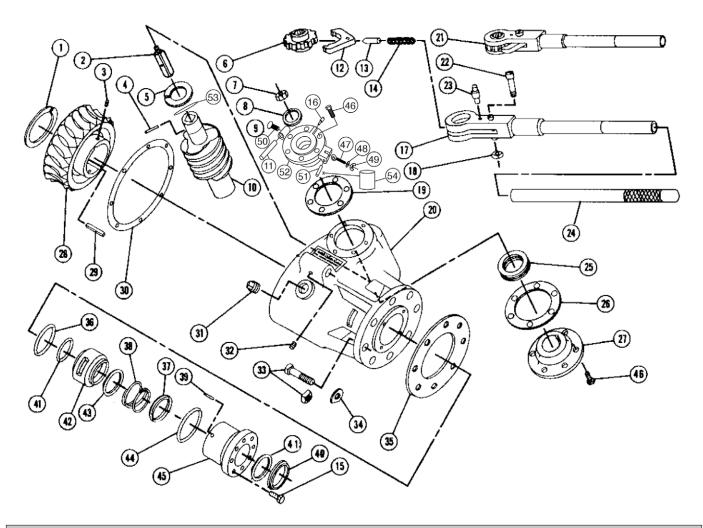
Flanged Adapter

| | Maximum | Sizes* of fitting | | | | | | |
|---|-----------------------|-------------------|-------|-------|-------|-------|-------|--|
| Adapter description | working pressure** | 3" | 4" | 6" | 8" | 10" | 12" | |
| Steel flanged adapter with class 150 inlet flange | 275 psi @ 100°F | 89433 | 89434 | 89435 | 89436 | 89437 | 89438 | |
| Steel flanged adapter with class 300 inlet flange | 600 psi @ 100°F | 89440 | 89441 | 89442 | 89443 | 89444 | 89445 | |
| Steel flanged adapter with class 400 inlet flange | 800 psi @ 100°F | 89440 | 89441 | 89442 | 89443 | 89444 | 89445 | |
| Steel flanged adapter with class 600 inlet flange | 1200 psi @ 100°F | 89440 | 89446 | 89447 | 89448 | 89449 | 89450 | |

^{*}Nominal size

^{**} This is the maximum working pressure of the adapter at 100°F (38°C). This maximum working pressure must be reduced accordingly if any attachment, valve, fitting or machine subjected to pressure during the use of this adapter, has a maximum working pressure less than that specified above.

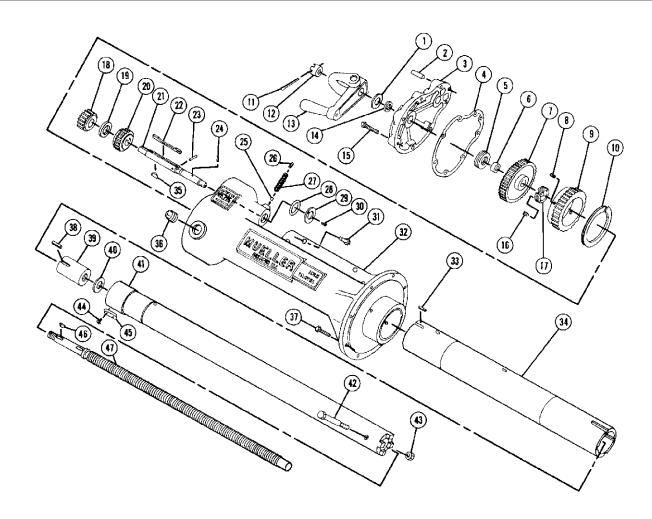
Rev. 10-21 Shaded area indicates changes



NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item No. | Part number | Part name | Item No. | Part number | Part name | Item No. | Part number | Part name |
|-------------|----------------|----------------------|-------------|----------------|-----------------------|-------------|----------------|---------------------------|
| 1 | 54426 | Thrust washer | 19 | 55467 | Top bearing gasket | 37 | 44245 | Convex follower |
| 2 | 507160 | Drive shaft | 20 | 526512 | Drive box | 38 | 98000 | Spring |
| 3 | 90472 | Set screw | 21 | 85308 | Ratchet complete | 39 | 47092 | Rollpin (2) |
| 4 | 503963 | Rollpin | 22 | 40138 | Bolt* | 40 | 501158 | Wiper ring |
| 5 | 54472 | Thrust washer | 23 | 40139 | Stud | 41 | 312619 | Quad ring (2) |
| 6 | 40137 | Ratchet wheel | 24 | 86391 | Handle extension | 42 | 508427 | Spacer |
| 7 | 94825 | Nut | 25 | 55541 | Ball bearing | 43 | 45115 | Packing ring (4) |
| 8 | 78827 | O-ring | 26 | 55478 | Bottom bearing gasket | 44 | 52162 | Gland seal o-ring |
| 9 | 580815 | Top bearing complete | 27 | 54443 | Bottom bearing | 45 | 581974 | Packing gland |
| 10 | 507161 | Worm | 28 | 55563 | Worm gear | 46 | 55098 | Socket head cap screw (6) |
| 11 | 54488 | Pivot | 29 | 54467 | Key | 47 | 52389 | Eyebolt |
| 12 | 40004 | Ratchet dog | 30 | 55609 | Gasket | 48 | 54012 | Washer |
| 13 | 40006 | Spring pin | 31 | 64134 | Plug | 49 | 94341 | Wing nut |
| 14 | 40007 | Spring | 32 | 98957 | Set screw | 50 | 91665 | Thumb screw |
| 15 | 55098 | Hex cap screw (4) | 33 | 56682 | Bolt and nut (8) | 51 | 48131 | Roll pin |
| 16 | 72484 | Latch stud | 34 | 55409 | Washer (8) | 52 | 502707 | Bearing |
| 17 | 80111 | Handle | 35 | 55449 | Gasket | 53 | 51458 | O-ring |
| 18 | 46255 | Nut* | 36 | 508429 | O-ring | 54 | 312169 | Bearing |

Shaded area indicates change Rev. 6-10

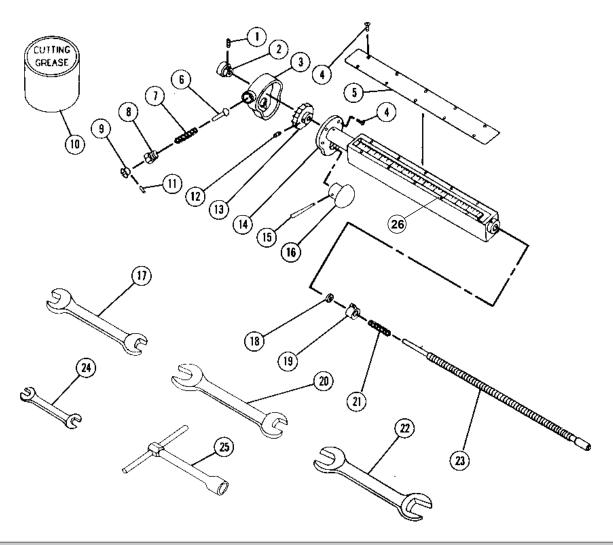


NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item No. | Part number | Part name | Item No. | Part number | Part name | Item No. | Part number | Part name |
|-------------|----------------|-----------------|-------------|----------------|---------------------|-------------|----------------|---------------|
| 1 | 33090 | Thrust washer | 17 | *54433 | Lock nut | 33 | 54466 | Key |
| 2 | 54545 | Dowel | 18 | 55446 | Idler pinion | 34 | 33923 | Drive tube |
| 3 | 508433 | Rear cover | 19 | 54471 | Idler spacer | 35 | 300190 | Key |
| 4 | 33080 | Gasket | 20 | 55432 | Idler pinion driven | 36 | 64134 | Plug |
| 5 | 55569 | Thrust bearing | 21 | 54470 | Idler shaft | 37 | 55098 | Cap Screw (8) |
| 6 | 54630 | Bushing | 22 | 54469 | Dive key | 38 | *54445 | Key (2) |
| 7 | 55567 | Feed screw gear | 23 | 63477 | Pin | 39 | *55546 | Feed nut |
| 8 | 98873 | Set screw (2) | 24 | 54538 | Pin | 40 | *54418 | Washer |
| 9 | 55564 | Drive tube gear | 25 | 54702 | Ball detent | 41 | *88331 | Boring bar |
| 10 | 54425 | Thrust washer | 26 | 99022 | Set screw | 42 | 311866 | Bolt |
| 11 | 98928 | Cotton pin | 27 | 55610 | Spring | 43 | 58849 | Nut |
| 12 | 55601 | Feed screw nut | 28 | 508434 | O-ring | 44 | 52182 | Screw (4) |
| 13 | 88150 | Crank | 29 | 508435 | Retainer | 45 | *54482 | Key (2) |
| 14 | 311332 | O-ring | 30 | 95257 | Screw (2) | 46 | 537394 | Key (2) |
| 15 | 504333 | Screw | 31 | 92375 | Screw (4) | 47 | 33924 | Feed screw |
| 16 | *98956 | Set Screw (2) | 32 | 88481 | Torque tube | | | |

^{*}Included in 89095 Boring Bar Complete

Rev. 3-08 Shaded area indicates changes

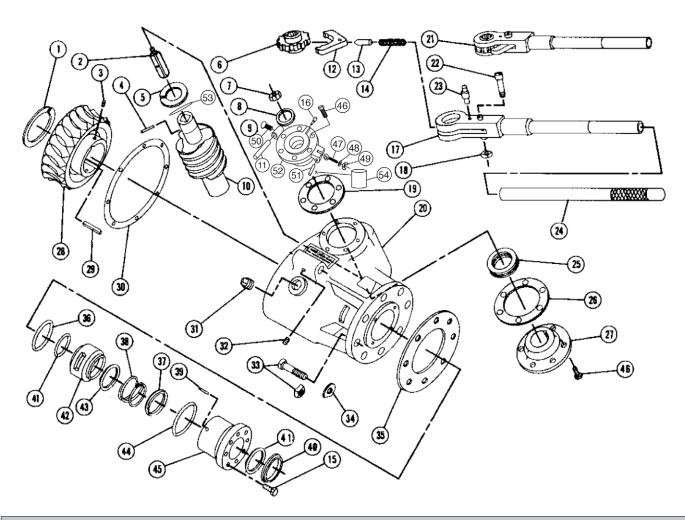


NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item No. | Part number | Part name | Item No. | Part number | Part name | Item No. | Part number | Part name |
|-------------|----------------|-------------|-------------|----------------|----------------|-------------|----------------|-----------------|
| 1 | 99023 | Set screw | 10 | 88366 | Cutting grease | 19 | 54519 | Indicator nut |
| 2 | 54551 | Knob | 11 | *56392 | Pin | 20 | 58196 | Wrench |
| 3 | 54446 | Cover plate | 12 | 97763 | Set screw | 21 | 33083 | Spring |
| 4 | 37804 | Screw | 13 | 54523 | Wheel | 22 | 55726 | Wrench |
| 5 | 33084 | Shield | 14 | 54516 | Indicator body | 23 | 54517 | Indicator screw |
| 6 | *36361 | Plunger | 15 | 53747 | Knob pin | 24 | 96536 | Wrench |
| 7 | *36362 | Spring | 16 | 54454 | Knob | 25 | 59839 | Socket wrench |
| 8 | *36360 | Body | 17 | 56680 | Wrench | 26 | 312257 | Indicator scale |
| 9 | *36359 | Detent knob | 18 | 54549 | Thrust washer | | | |

^{*}Included in 88484 kit (Detent Sub Assembly)

Shaded area indicates change Rev. 10-21



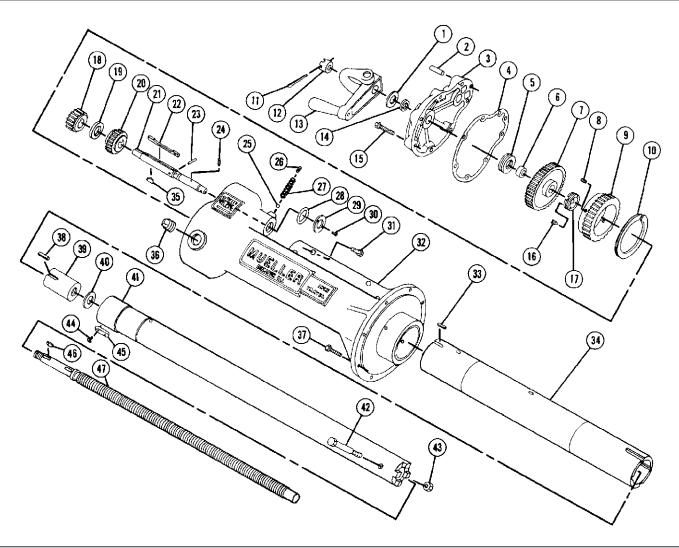
NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name |
|-------------|----------------|------------------------------|-------------|----------------|-----------------------|-------------|----------------|---------------------------|
| 1 | 54426 | Thrust washer | 17 | 80111 | Handle | 35 | 55449 | Gasket |
| 2 | 507160 | Drive shaft | 18 | 46255 | Nut | 36 | 508429 | O-ring37 |
| 3 | 90472 | Set screw | 19 | 55467 | Top bearing gasket | 37 | 44245 | Convex follower |
| 4 | 503963 | Rollpin | 20 | 526512 | Drive box | 38 | 98000 | Spring |
| 5 | 54472 | Thrust washer | 21 | 85308 | Ratchet complete | 39 | 47092 | Rollpin (2) |
| 6 | 40137 | Ratchet wheel | 22 | 40138 | Bolt | 40 | 501158 | Wiper ring |
| 7 | 94825 | Nut | 23 | 40139 | Stud | 41 | 508430 | O-ring (2) |
| 8 | 78827 | O-ring | 24 | 86391 | Handle extension | 42 | 508427 | Spacer |
| 9 | 580815 | Top bearing complete | 25 | 55541 | Ball bearing | 43 | 45115 | Packing ring (4) |
| | | (includes: 8, 11,16, 46, 47, | 26 | 55478 | Bottom bearing gasket | 44 | 52162 | Gland seal o-ring |
| | | 48, 49, 50, 51, 52) | 27 | 54443 | Bottom bearing | 45 | 501151 | Packing gland |
| 10 | 507161 | Worm | 28 | 55563 | Worm gear | 46 | 55098 | Socket head cap screw (6) |
| 11 | 54488 | Pivot | 29 | 54467 | Key | 47 | 52389 | Eyebolt |
| 12 | 40004 | Ratchet dog | 30 | 55609 | Gasket | 48 | 54012 | Washer |
| 13 | 40006 | Spring pin | 31 | 64134 | Plug | 49 | 94341 | Wing Nut |
| 14 | 40007 | Spring | 32 | 98957 | Set screw | 50 | 91665 | Thumb Screw |
| 15 | 55098 | Hex cap screw (4) | 33 | 56682 | Bolt and nut (8) | 51 | 48131 | Roll Pin |
| 16 | 72484 | Latch | 34 | 55409 | Washer (8) | 52 | 502707 | Bearing |

^{*} Order both parts when replacing either one.



Rev. 12-12 Shaded area indicates changes

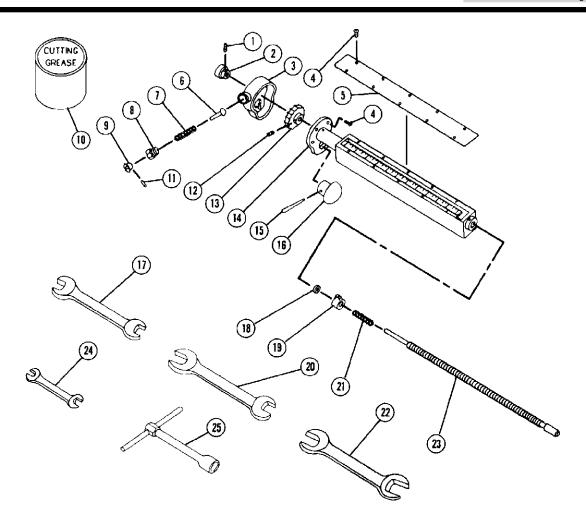


NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name |
|-------------|----------------|-------------------------|-------------|----------------|------------------------------------|-------------|----------------|---------------------|
| 1 | 508438 | Thrust washer | 17 | 54433 | Lock nut | 33 | 54466 | Feed gear key |
| 2 | 54545 | Dowel pin | 18 | 501074 | Idler pinion | 34 | 33923 | Drive tube |
| 3 | 508433 | Rear cover | 19 | 54471 | ldler spacer | 35 | 300190 | Key |
| 4 | 33080 | Rear cover gasket | 20 | 55432 | Idler pinion driver | 36 | 64134 | Plug |
| 5 | 55569 | Thrust bearing | 21 | 54470 | Idler shaft | 37 | 55098 | Cap screw |
| 6 | 54630 | Bushing | 22 | 54469 | Drive key | 38 | 54445 | Feed nut keys (2) |
| 7 | 55567 | Feed screw gear | 23 | 63477 | Drive key pin | 39 | 33404 | Feed nut |
| 8 | 98873 | Set screws (2) | 24 | 54538 | Indicator drive pin | 40 | 54418 | Feed nut washer |
| 9 | 55564 | Drive tube feed gear | 25 | 54702 | Ball detent | 41 | 88331 | Boring bar assembly |
| 10 | 54425 | Feed gear thrust washer | 26 | 99022 | Set screw | 42 | 311866 | Bolt |
| 11 | 98928 | Cotter pin | 27 | 55610 | Detent spring | 43 | 58849 | Nut |
| 12 | 55601 | Feed screw nut | 28 | 508434 | Idler oil seal | 44 | 52182 | Screws (4) |
| 13 | 88150 | Crank & hoisting yoke | 29 | 508435 | Oil seal retainer | 45 | 54482 | Keys (2) |
| 14 | 311332 | Oil seal O-ring | 30 | 95257 | Screws (2) | 46 | 98225 | Keys (2) |
| 15 | 504333 | Screw | 31 | 92375 | Screws (4) | 47 | 43964 | Feed screw |
| 16 | 98956 | Set screws (2) | 32 | 88481 | Torque tube assembly (w/ bushings) | | 89346 | Lubricant |

*Included in 83941 Boring Bar Complete

Shaded area indicates change Rev. 12-12



NOTE: These illustrations are for parts identification only. DO NOT use these illustrations for assembly or disassembly of machine. Mueller Co. offers a machine repair service. Contact Mueller Customer Service Center for details.

| Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name | Item NO. | Part Number | Part Name |
|-------------|----------------|------------------|-------------|----------------|-----------------|-------------|----------------|-----------------|
| 1 | 99023 | Knob set screw | 10 | 88366 | Cutting grease | 19 | 501073 | Indicator nut |
| 2 | 54551 | Indicator knob | 11 | 56392 | Pin | 20 | 58196 | Wrench |
| 3 | 54446 | Cover plate | 12 | 97763 | Wheel set screw | 21 | 33083 | Spring |
| 4 | 37804 | Screws (14) | 13 | 54523 | Wheel | 22 | 55726 | Wrench |
| 5 | 33084 | Indicator shield | 14 | 54516 | Indicator body | 23 | 501077 | Indicator screw |
| 6 | 36361 | Plunger | 15 | 53747 | Crank rollpin | 24 | 96536 | Wrench |
| 7 | 36362 | Spring | 16 | 54454 | Knob | 25 | 59839 | Socket wrench |
| 8 | 36360 | Body | 17 | 56680 | Wrench | | | |
| 9 | 36359 | Detent knob | 18 | 54549 | Thrust washer | | | |

*Included in 88484 kit (Detent Sub Assembly)

Rev. 3-08 Shaded area indicates changes

H-614 Air Power Operator

- □ Catalog number
- □ Non-reversible air motor
- □ 82 RPM free speed
- ☐ Air supply: 90 cubic feet of free air per minute at 90 psig (full load)
- ☐ Total shipping weight 57 lbs. (25 kg)
- ☐ Machine only weight 28 lbs. (12 kg)
- ☐ Shipped in a wooden storage chest (312171)
- □ 1/2" In Line Lubricator Assembly Included (311817)

IMPORTANT: MAINTAIN PRESSURE OF 90 PSIG – THE USE OF A GAUGE AT THE THROTTLE TO DETERMINE THE ACTUAL PRESSURE OF AIR AT THE POWER OPERATOR IS RECOMMENDED.

Note: The H-601 air power operator is no longer available, but may still be repairable. Contact your local Mueller representative for details on our repair program.



H-614 Air Power Operator





Optional adapter 580815
(Used to adapt H-614 to old style C1-36 machine)

H-607 Hydraulic Power Operator

- □ Catalog number H-607
- ☐ Attaches to older C1-36 machine using optional adapter 580815
- ☐ 61 RPM at 8 GPM
- ☐ Flow range: 7 9 GPM / 26-34 1pm
- □ 1500 psig/105 bar maximum working pressure at up to 397 ft/lbs of torque
- ☐ Open center system type
- ☐ Operator only weight 31 lbs. (14 kg)
- ☐ Flush-faced hydraulic fittings keep lines contamination-free
- ☐ 15" (approximate) non-conductive hoses
- □ Integral carrying handle
- ☐ Shipped in a wooden storage chest

Note: The redesigned H-607 replaces the old H-607 and H-608 models.

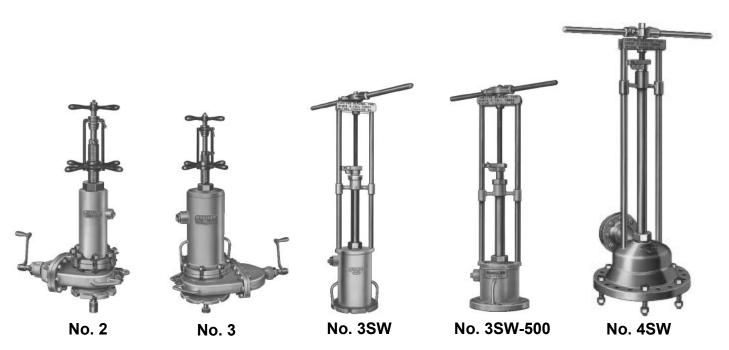


H-607 Hydraulic Power Operator



Shaded area indicates change Rev. 6-10

Typical Stopping Machines



The **Mueller Line Stopper Unit Numbers 2, 3, 3SW, 3SW-500**, and **4SW** stopping and completion machines are an assembly of tools and methods that provide a means to install and stop-off 3" to 12" line stopper fittings having flanged completion caps.

This equipment is not sold as a unit. Due to the variations in tools required for the different sizes, pressure classes, and styles of fittings, machines and tools are purchased individually. Each line stopper fitting is illustrated with an accompanying list of equipment that is used to install and stop it off.

These line stopper units can be used with Mueller split (two sided) weld type or mechanical joint type line stopper fittings, flanged tees and Save-A-Valve® Drilling Nipples.

The combination of stopping and completion machines, tools, fittings and methods result in the MUELLER NO-BLO® System of line stopping. This system, through decades of successful application and reliable operation, has proven to be the system of choice by most gas utilities.

Line stopping units are often used for replacing or repairing a section of pipe line without interrupting service to customers. This is done by using two line stopper fittings to isolate the section of pipe and running a bypass line around the isolated section. These stopping machines have an integral bypass connection that allows the bypass line to be connected between the two machines. Specially designed rubber stoppers are used to stop-off the line to isolate the section of pipe that is to be replaced or repaired, while permitting flow to be channeled through the bypass line to continue uninterrupted service to customers.

Three styles of fittings and equipment are available--- regular bypass (bypass line between machines), side out bypass (side bypass constructed between fittings), and bottom out bypass (bottom bypass constructed between fittings). The bottom out bypass is generally used when a pipeline grade change is required.

Since many stop-offs are made under emergency conditions, this equipment should be considered emergency equipment and maintained in good condition. Crews should be trained on the proper use of the equipment and an adequate stock of machines, tools and fittings should be maintained.



Rev. 11-18 Shaded area indicates changes

Mueller H-17235 Unit No. 2 Stopping Machine

| | Cata | log ກເ | ımber | _ F | 1-17 | 7235 |
|--|------|--------|-------|-----|------|------|
|--|------|--------|-------|-----|------|------|

□ Hand operation

☐ Used to stop-off 3" and 4" Line Stopper Fittings and Flanged Service Tees

☐ Body has integral 1-1/4" F.I.P. thread bypass connection

☐ Has feed yoke locking mechanism for safe and positive operation

☐ Used in conjunction with control valve – 5" gate valve (88611)

☐ Comes in compact wooden storage chest (302550)

☐ Includes operating instruction manual (Form **8524**)

☐ 100 psig (690 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a maximum working pressure or temperature rating less than that specified above.



H-17235

(Shown with 88611 Gate Valve, purchased separately)

Mueller NO-BLO® operations performed by the MUELLER H-17235 Stopping Machine

| Item | Size* o | f fitting | Mueller NO-BLO Operation | | |
|-------------------------------|---------|-----------|--------------------------|--|--|
| Mueller Line Stopper Fittings | 3" | 4" | Stop-off fitting | | |
| Mueller Flanged Tees | 3" | 4" | Stop-off tee | | |

^{*} Nominal size

Shaded area indicates change Rev. 6-10



Solid Rubber Stopper

The solid rubber stoppers is used to make one sided stop-offs in Mueller line stopper fittings.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 3" | 88610 | 36443 |
| 4" | 88614 | 36471 |



Stopper

Full Bypass Rubber Stopper

Full Bypass Rubber Stopper

This stopper has a full slot to allow for either top bypass through the two Mueller Unit Number 2 Machines or a bottom bypass through the Mueller Bottom Out Line Stopper Fittings. These are used in pairs to isolate a section of pipe so repairs or modifications can be made while maintaining service to customers.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 3" | 680514 | 509447 |
| 4" | 680515 | 509448 |



Top Bypass Rubber Stopper

Top Bypass Rubber Stopper

This stopper is used in pairs for a bypass line to be directed through the two Mueller Unit Number 2 Stopping Machines to isolate a section of pipe so repairs or modifications can be made while maintaining service to customers.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 3" | 88609 | 36439 |
| 4" | 88613 | 36467 |



Bottom Bypass Rubber Stopper

Bottom Bypass Rubber Stopper

This stopper is used in pairs for a bypass line to be directed through the two Mueller Bottom Out Line Stopper Fitting to isolate a section of pipe so repairs or modifications can be made while maintaining service to customers.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 3" | 80064 | 36439 |
| 4" | 81496 | 36467 |



Bottom Out Rubber Stopper

Bottom Out Rubber Stopper

This stopper is used in Mueller Bottom Out Line Stopper Fitting when the outlet is the section to be isolated so repairs or modifications can be made while maintaining service to customers. (Form 11967)

| Size* | Stopper Complete |
|-------|------------------|
| 3" | 681990 |
| 4" | 681991 |

Flanged Tee Stopper

This stopper is used to stop-off Mueller Flanged Service Tees which allows service and lateral connections to be isolated without disrupting flow through the existing main.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 3" | 83504 | 53195 |
| 4" | 83506 | 53407 |

^{*} Nominal size





MUELLER® H-17246 UNIT NO. 2 COMPLETION MACHINE

Rev. 11-18 Shaded area indicates changes

| Mueller | H-17246 | Unit No. 2 | Completion | Machine |
|---------|---------|------------|------------|----------------|
|---------|---------|------------|------------|----------------|

☐ Catalog number **H-17246**

□ Hand operation

☐ Used to align, insert and extract completion plugs on 3" and 4" Line Stopper Fittings, Flanged Service Tees and Save-A-Valve® Drilling Nipples

☐ Used in conjunction with Control Valve – 5" Gate Valve (88611)

☐ Comes in compact wooden storage chest (306043)

☐ Includes operating instruction manual (Form **8524**)

□ Balanced pressure feature

□ Included with machine: **83520** Inserting Tool, **83521** Extracting Tool, **83522** Alignment Tool, and **36404** Completion Plug Wrench.

☐ 100psig (689 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a



H-17246

maximum working pressure or temperature rating less than that specified above.

| Item | Size* of fitting | | Mueller NO-BLO Operation |
|---------------------------------------|------------------|----|---|
| Mueller Line Stopper Fittings | 3" | 4" | |
| Mueller Flanged Tees | 3" | 4" | Align, insert and extract completion plug |
| Mueller Save-A-Valve Drilling Nipples | 3" | 4" | |

Mueller NO-BLO® Operations performed by the Mueller H-17246 Completion Machine

*Nominal size

Shaded area indicates change Rev. 6-10

Alignment Tool

Alignment tools are used with the completion plug to align the line stopper machine and equipment with the installed line stopper fitting, flanged tee or Save-A-Valve® Drilling Nipples.

| Tool Complete | Fork | Collar | Set Screw | Set Screw | Spring | Shank |
|---------------|-------|--------|-----------|-----------|--------|-------|
| 83522 | 53858 | 53507 | 97970 | 502754 | 46696 | 53859 |



Mueller E-Z Release® Inserting Tool

Inserting tools are used to insert completion plugs in Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Tool Complete | Fork | Collar | Set Screw | Spring | Shank |
|----------------------|-------|--------|-----------|--------|-------|
| 83520 | 53509 | 53507 | 97970 | 46696 | 53490 |



Extracting Tool

Extracting tools are used to remove completion plugs from Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Tool Complete | Fork | Collar | Set Screw | Spring | Shank |
|---------------|-------|--------|-----------|--------|-------|
| 83521 | 53508 | 53507 | 97970 | 46696 | 53490 |



Completion Plug Wrench

Completion plug wrench is used to "final" tighten the completion plug before the completion cap is attached and is also used to "break" the plug loose prior to removal using the extracting tool.





Completion Plug Wrench

Thread Cleaning Tool

Thread cleaning tool is used to remove any pipe chips or other drilling debris from the completion plug threads in the fitting prior to installation of the completion plug.

| Size | Tool Complete | Shank | Washer | Hex Cap Screw | Brush | Spacer Bar | Bolt | Coupling Nut |
|------|---------------|--------|--------|------------------|--------|---------------|--------|-----------------|
| 3" | 89316 | 503953 | 45556 | 98570 | 305744 | 503936 | 503955 | - |
| 4" | 89317 | 503953 | 45556 | 98570 | 301919 | 503954 | 503955 | 46694 |



Cleaning Tool

Inserting Bar Extension Spacer and Sleeve

The inserting bar extension spacer and sleeve are used together to increase the stopping machine inserting bar length for stopping off certain fittings, tees and nipples.

| Size* | Inserting Bar Extension Spacer | Inserting Bar Extension Sleeve |
|-------|--------------------------------|--------------------------------|
| 3" | 505554 | 505555 |
| 4" | 79403* | 79402* |

The 4" spacer and sleeve are only used with 4" Class 300 and above. *Nominal size



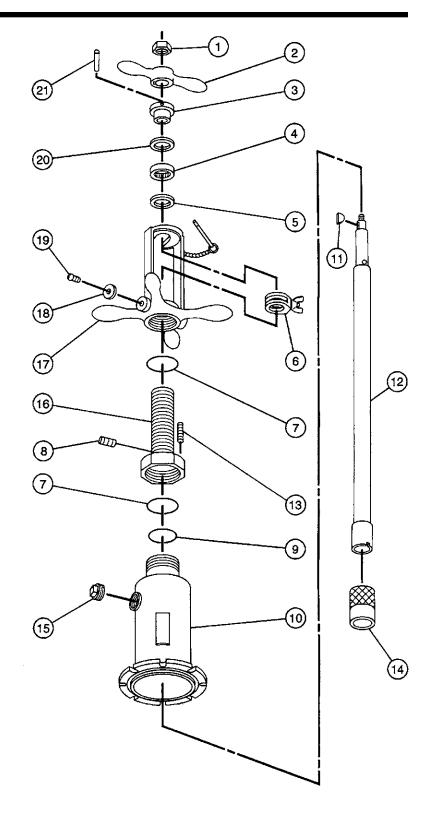
Inserting Bar Extension Spacer



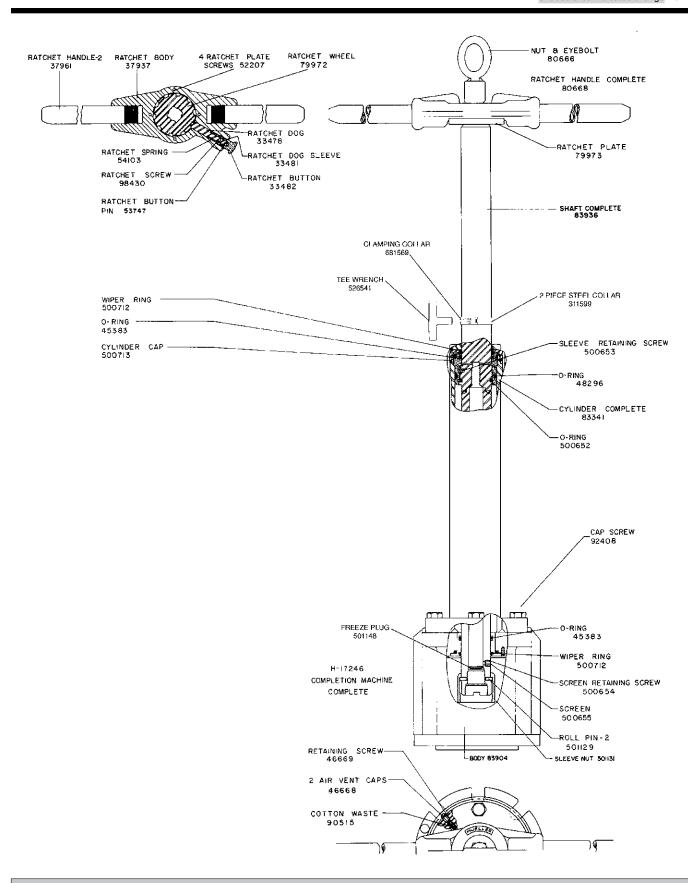
Inserting Bar Extension Sleeve

Rev. 6-10 Shaded area indicates changes

| Item No. | Part Number | Part Name (quantity) | | |
|-------------|-----------------------------|---|--|--|
| 1 | 52178 | Nut | | |
| 2 | 36437 | Handle | | |
| 3 | 36434 | Retaining collar | | |
| 4 | 36436 | Thrust bearing | | |
| 5 | 36433 | Thrust collar | | |
| 6 | 83544 | Clamping collar assembly | | |
| 7 | 51458 | O-ring (2) | | |
| 8 | 41435 | Plug | | |
| 9 | 78827 | O-ring | | |
| 10 | 81440 | Body | | |
| 11 | 98941 | Key | | |
| 12 | 36423 | Inserting bar | | |
| 13 | 92926 | Set screw | | |
| 14 | 36432 | Coupler sleeve | | |
| 15 | 51263 | Plug | | |
| 16 | 501680 | Feed sleeve | | |
| 88607 | | Feed nut and yoke assembly (includes 18 and 19) | | |
| 36426 | | Feed nut only | | |
| | 36427 | Yoke only | | |
| 17 | 36444 | Pin only | | |
| | 48610 | Ring only | | |
| | 504225 | Chain only | | |
| | 94005 | Rivet only | | |
| 18 | 50133 | Washer (2) | | |
| 19 | 79745 | Sems fastener (2) | | |
| 20 | 36483 | Bearing collar | | |
| 21 | 503715 | Retaining pin | | |
| Items n | ot shown | | | |
| | 302550 Wooden storage chest | | | |
| | F8524 | Operating instruction manual | | |



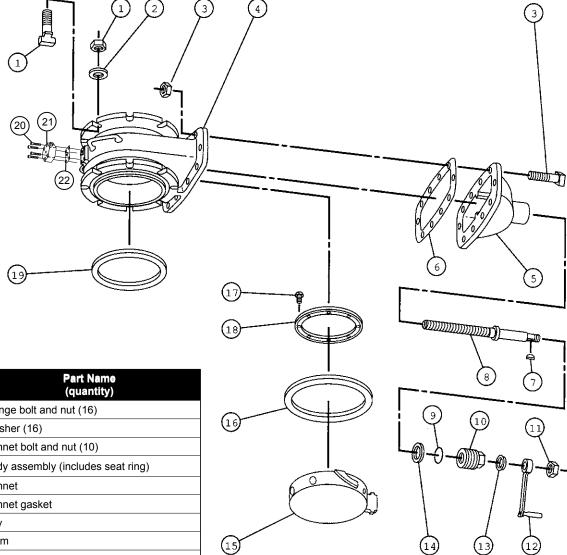
Shaded area indicates change Rev. 6-10



Item

Part

Rev. 6-10 Shaded area indicates changes



| No. | Number | (quantity) | |
|----------|---|---|--|
| 1 | 36446 | Flange bolt and nut (16) | |
| 2 | 92576 | Washer (16) | |
| 3 | 54804 | Bonnet bolt and nut (10) | |
| 4 | 83029 | Body assembly (includes seat ring) | |
| 5 | 36448 | Bonnet | |
| 6 | 36449 | Bonnet gasket | |
| 7 | 98229 | Key | |
| 8 | 36456 | Stem | |
| 9 | 40709 | O-ring | |
| 10 | 501295 | Packing nut | |
| 11 | 52180 | Nut | |
| 12 | 83973 | Handle assemble | |
| 13 | 501274 | Wiper ring | |
| 14 | 36453 | Gasket | |
| 15 | * | Gate (can not be purchased) | |
| 16 | 36579 | Seat washer | |
| 17 | 313059 | Socket Head Machine Screw (8) | |
| 18 | 36616 | Seat washer retainer | |
| 19 | 36377 | Flange gasket (2) | |
| 20 | 311888 | Screw (4) | |
| 21 | 682272 | Bypass stop assembly (includes 20 and 22) | |
| 22 | 36623 | Gasket | |
| Items no | t shown | | |
| - | - 304672 Wooden storage chest (not shown) | | |



Shaded area indicates change Rev. 12-06

Mueller H-17335 Unit No. 3 Stopping Machine

| Catalog number – H-17335 |
|---|
| Hand operation |
| Used to stop-off 6" and 8" Line Stopper Fittings and Flanged Service Tees |
| Body has integral 2" F.I.P. thread bypass connection |
| Has feed yoke locking mechanism for safe and positive operation |
| Used in conjunction with Control Valve – 9-1/4" Gate Valve (83953) |
| Comes in Wooden Storage Chest (304673) |
| Includes Operating Instruction Manual (Form 8571) |
| |

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a maximum working pressure or temperature rating less than that specified above.

□ 100 psig (690 kPa) maximum working pressure at 100F (38C)



H-17335

Mueller NO-BLO® Operations performed by the Mueller H-17335 Stopping Machine

| Item | Size* of Fitting | | Mueller NO-BLO Operation |
|-------------------------------|------------------|----|--------------------------|
| Mueller Line Stopper Fittings | 6" | 8" | Stop-off fitting |
| Mueller Flanged Tees | 6" | 8" | Stop-off tee |



MUELLER® UNIT NO. 3 STOPPING MACHINE EQUIPMENT

Rev. 12-06 Shaded area indicates changes



Solid Rubber Stopper

Solid Rubber Stopper

The solid rubber stopper is used to make one sided stop-offs in Mueller line stopper fittings.

| Size* | Stopper Complete | Replacement Rubber | |
|-------|------------------|--------------------|--|
| 6" | 682365 | 37202 | |
| 8" | 88699 | 37208 | |

Full Bypass Rubber Stopper

Full Bypass Rubber Stopper

This stopper has a full slot to allow for either top bypass through the two Mueller Unit Number 3 machines or a bottom bypass through the Mueller Bottom Out Line Stopper Fittings. These are used inpairs to isolate a section of pipe so repairs or modifications can be make while maintaining service to customers.

| Size* | Stopper Complete | Replacement Rubber | |
|-------|------------------|--------------------|--|
| 6" | 682364 | 509449 | |
| 8" | 680517 | 509450 | |



Bottom Out Rubber Stopper

Bottom Out Rubber Stopper

This stopper is used in Mueller bottom out line stopper fitting when the outlet is the section to be isolated so repairs or modifications can be made while maintaining service to customers. (Form 11967)

| Size* | Stopper Complete | |
|-------|---|--|
| 6" | 681993 | |
| 8" | 682634 *150 Class Line Stopper Fittings | |
| 8" | 681995 | |



Flanged Tee Stopper

Flanged Tee Stopper

This stopper is used to stop off Mueller flanged service tess which allows service and lateral connections to be isolated without disrupting flow through the existing main.

| Size* | Stopper Complete | Replacement Rubber | |
|-------|------------------|--------------------|--|
| 6" | 682337 | 53439 | |
| 8" | 682339 | 53447 | |

*Nominal size



Shaded area indicates change Rev. 11-18

Mueller H-17345 Unit No.3 Completion Machine

- ☐ Hand operation
- ☐ Used to align, insert, extract Completion Plugs in 6" and 8" Line Stopper Fittings, Flanged Service Tees and Save-A-Valve® Drilling Nipples
- ☐ Positive mechanical feed mechanism, with locking feed yoke
- ☐ Used in conjunction with Control Valve 9-1/4" Gate Valve (83953)
- ☐ Comes in Wooden Storage Case (304666)
- ☐ Includes Operating Instruction Manual (Form **8571**)
- □ Included with machine: **83517** Inserting Tool, **83518** Extracting Tool, **83519** Alignment Tool, and **36424** Completion Plug Wrench.
- □ 100 psig (690 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the plug alignment, plug inserting or plug extracting operation has a maximum working pressure or temperature rating less than that specified above.



H-17345

Mueller NO-BLO® Operations performed by the Mueller H-17345 Completion Machine

| Item | Size* of | f Fitting | Mueller NO-BLO Operation |
|---------------------------------------|----------|-----------|--|
| Mueller Line Stopper Fittings | 6" | 8" | |
| Mueller Flanged Tees | 6" | 8" | Align, insert or extract completion plug |
| Mueller Save-A-Valve Drilling Nipples | 6" | 8" | |

^{*}Nominal size

Rev. 12-06 Shaded area indicates changes

Alignment Tool

Alignment tools are used with the completion plug to align the line stopper machine and equipment with the installed line stopper fitting, flanged tee or Save-A-Valve® Drilling Nipples.

| Tool Complete | Fork | Collar | Set Screw | Set Screw | Spring | Shank |
|---------------|-------|--------|-----------|-----------|--------|-------|
| 83519 | 53862 | 46695 | 53857 | 98429 | 46696 | 53861 |



Alignment Tool

Mueller E-Z Release® Inserting Tool

Inserting tools are used to insert completion plugs in Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Tool Complete | Fork | Collar | Set Screw | Spring | Shank |
|---------------|-------|--------|-----------|--------|-------|
| 83517 | 46697 | 46695 | 98429 | 46696 | 53513 |



Extracting Tool

Extracting tools are used to remove completion plugs from Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Tool Complete | Fork | Collar | Set Screw | Spring | Shank |
|---------------|-------|--------|-----------|--------|-------|
| 83518 | 46698 | 46695 | 98429 | 46696 | 53513 |



Completion Plug Wrench

Completion plug wrench is used to "final" tighten the completion plug before the completion cap is attached and is also used to "break" the plug loose prior to removal using the extracting tool.





Completion Plug Wrench

Thread Cleaning Tool

Thread cleaning tool is used to remove any pipe chips or other drilling debris from the completion plug threads in the fitting prior to installation of the completion plug.

| Size* | Tool Complete | Shank | Washer | Hex Cap Screw | Brush | Spacer Bar | Bolt | Coupling Nut |
|---------|---------------|--------|--------|------------------|--------|------------|--------|-----------------|
| 6" & 8" | 89318 | 503953 | 45556 | 98570 | 301919 | 503956 | 503955 | - |



Inserting Bar Extension Spacer and Sleeve

The inserting bar extension spacer and sleeve are used together to increase the stopping machine inserting bar length for stopping off certain fittings, tees and nipples.

| Size* | Inserting Bar Extension Spacer | Inserting Bar Extension Sleeve |
|---------|--------------------------------|--------------------------------|
| 6" & 8" | 36991 | 36992 |



Inserting Bar Extension Spacer



Inserting Bar Extension Sleeve

Tool Adapter

This tool adapter is used for certain applications to adapt the stopping machine inserting bar to alignment, inserting and extracting tools.

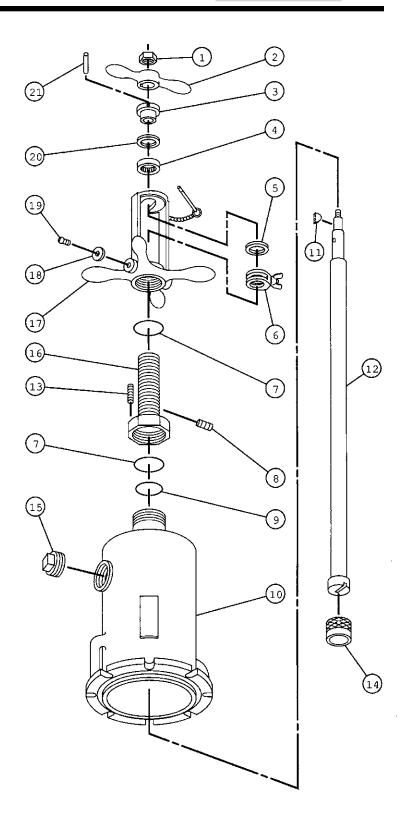




Tool Adapter

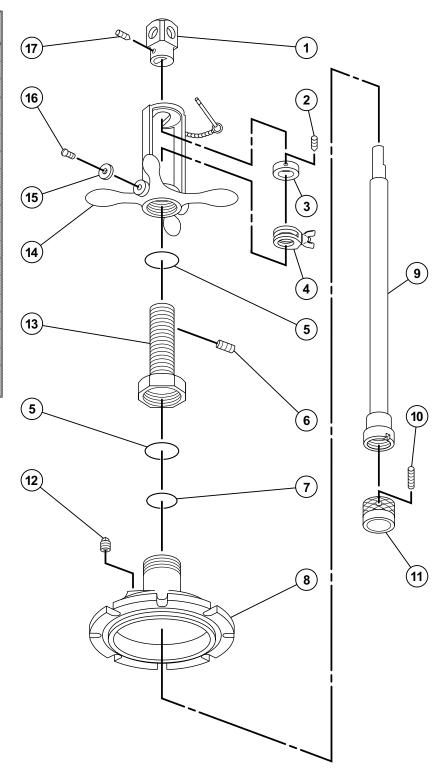
Shaded area indicates change Rev. 6-10

| ltem No. | Part Number | Part Name (quantity) |
|-------------|----------------|--|
| 1 | 52178 | Nut |
| 2 | 36437 | Handle |
| 3 | 36434 | Retaining collar |
| 4 | 36436 | Thrust bearing |
| 5 | 36433 | Thrust collar |
| 6 | 83544 | Clamping collar assembly |
| 7 | 51458 | O-ring (2) |
| 8 | 41435 | Of Plug |
| 9 | 78827 | O-ring |
| 10 | 80010 | Body |
| 11 | 98941 | Key |
| 12 | 88627 | Inserting bar |
| 13 | 92926 | Set screw |
| 14 | 36722 | Coupler sleeve |
| 15 | 52916 | Plug |
| 18 | 501680 | Feed sleeve |
| 17 | 88607 | Feed nut and yoke assembly (includes 18 and 19) |
| | 36426 | Feed nut only |
| | 36427 | Yoke only |
| | 36444 | Pin only |
| | 48610 | Ring only |
| | 504225 | Chain only |
| | 94005 | Rivet only |
| 18 | 50133 | Washer (2) |
| 19 | 79745 | Senis fastener (2) |
| 20 | 36483 | Bearing collar |
| 21 | 503715 | Retaining pin |
| Items r | ot shown | |
| - | 304673 | Wooden storage chest (not shown) |
| - | F8571 | Operating instrustion manual (not shown) |

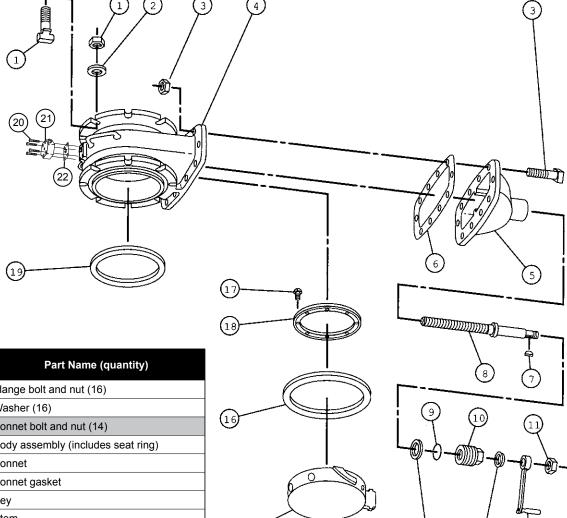


Rev. 12-12 Shaded area indicates changes

| Item No. | Part Number | Part Name (quantity) |
|-------------|----------------|---|
| 1 | 36677 | Bar head |
| 2 | 40013 | Screw (2) |
| 3 | 36678 | Friction collar |
| 4 | 83544 | Clamping collar assembly |
| 5 | 51458 | O-ring (2) |
| 6 | 41435 | Oil plug |
| 7 | 78827 | O-ring |
| 8 | 36879 | Body |
| 9 | 53512 | Inserting bar |
| 10 | 92926 | Screw |
| 11 | 36722 | Coupler nut |
| 12 | 64134 | Plug |
| 13 | 501680 | Feed sleeve |
| 14 | 88807" | Feed nut and yoke assembly |
| 15 | 50133 | Washer (2) |
| 18 | 79745 | Sems fastener |
| 17 | 58458 | Screw |
| - | 304666 | Wooden storage chest (not shown) |
| - | F8571 | Operating instruction manual (not shown) |



Shaded area indicates change Rev. 6-10



| Item No. | Part Number | Part Name (quantity) |
|-------------|----------------|---|
| 1 | 36446 | Flange bolt and nut (16) |
| 2 | 92576 | Washer (16) |
| 3 | 54804 | Bonnet bolt and nut (14) |
| 4 | 83952 | Body assembly (includes seat ring) |
| 5 | 36636 | Bonnet |
| 6 | 36538 | Bonnet gasket |
| 7 | 98229 | Key |
| 8 | 36541 | Stem |
| 9 | 51458 | O-ring |
| 10 | 501296 | Packing nut |
| 11 | 52180 | Nut |
| 12 | 83973 | Handle assemble |
| 13 | 501273 | Wiper ring |
| 14 | 36539 | Gasket |
| 15 | * | Gate (can not be purchased) |
| 16 | 36581 | Seat washer |
| 17 | 313059 | Socket Head Machine Screw (12) |
| 18 | 36560 | Seat washer retainer |
| 19 | 63094 | Flange gasket (2) |
| 20 | 311888 | Screw (4) |
| 21 | 682272 | Bypass stop assembly (includes 20 and 22) |
| 22 | 36623 | Gasket |
| Items no | ot shown | |
| | 304671 | Wooden storage chest (not shown) |

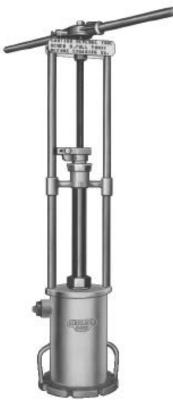
MUELLER® H-17340 UNIT NO. 3SW STOPPING MACHINE

Rev. 12-06 Shaded area indicates changes

Mueller H-17340 Unit No. 3SW Stopping Machine

- ☐ Catalog number **H-17340**
- ☐ Hand operation or Power Operation (H624)
- ☐ Used to stop-off 4", 6" and 8" Line Stopper Fittings and Flanged Service Tees
- ☐ Body has integral 2" F.I.P. thread bypass connection
- ☐ Used in conjunction with Control Valve 9-1/4" Gate Valve (83953)
- ☐ Comes in Wooden Storage Chest (96824)
- ☐ Includes Operating Instruction Manual (Form **8834**)
- ☐ 275 psig (1898 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a maximum working pressure or temperature rating less than that specified above.



H-17340

Mueller NO-BLO ® Operations performed by the Mueller 89366 Stopping Machine

| Item | Size* Of Fitting | | | Mueller NO-BLO Operation |
|-------------------------------|------------------|----|----|--------------------------|
| Mueller Line Stopper Fittings | 4" | 6" | 8" | Stop-off fitting |
| Mueller Flanged Tees | 4" | 6" | 8" | Stop-off tee |

^{*}Nominal size

Shaded area indicates change Rev. 6-17



Steel Wedge Stopper

Steel Wedge Stopper

Mueller polyurethane covered steel wedge stoppers are mechanically retracted and expanded for positive operation. These stoppers are made to be used with the full line of Mueller flanged line stopper fittings. (Polyurethane covered cylinder replacement kits and Positive Control™ Cover kits are available from Mueller Co.)

| Size* | Stopper Complete | Pipe Wall |
|-------|------------------|-----------|
| 4" | 89694 | Standard |
| 6" | 89696 | Standard |
| 6" | 89700 | Thin |
| 8" | 89698 | Standard |
| 8" | 89702 | Thin |

See next page for steel wedge stopper replacement parts and repair kits.

Bottom Out Rubber Stopper

This stopper is used in Mueller Bottom Out Line Stopper Fitting when the outlet is the section to be isolated so repairs or modifications can be made while maintaining service to customers. (Form 11967)

| Size* | Stopper Complete |
|-------|------------------|
| 4" | 681992 |
| 6" | 681994 |
| 8" | 681996 |



Flanged Tee Stopper This stopper is used to st

This stopper is used to stop off Mueller Flanged Service tess which allows service and lateral connections to be isolated without disrupting flow through the existing main.

| Size* | Stopper Complete | Replacement Rubber |
|-------|------------------|--------------------|
| 4" | 83506 | 53407 |
| 6" | 682337 | 53439 |
| 8" | 682339 | 53447 |

*Nominal size

Flanged Tee Stopper

Power Operators for Mueller 3SW, 3SW-500, & 4SW Machines H-624 Air Power Operator

- □ Reversible air motor
- ☐ 17 RPM free speed
- ☐ Air supply: 33 SCFM at 90 psig (full load)
- ☐ Machine only weight 17 lbs. (8 kg)
- ☐ Shipped in a wooden storage chest complete with inline lubricator
- ☐ **IMPORTANT**: Read operating instructions (form 13866)

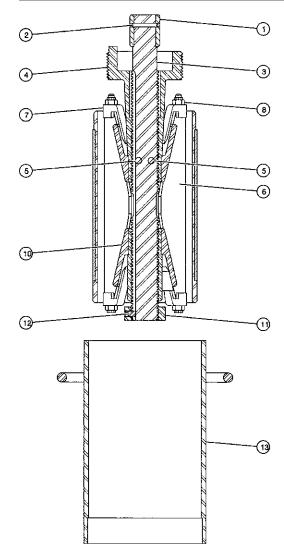
IMPORTANT: MAINTAIN PRESSURE OF 90 PSIG – THE USE OF A GAUGE AT THE THROTTLE TO DETERMINE THE ACTUAL PRESSURE OF AIR AT THE POWER OPERATOR IS RECOMMENDED.

Note: Used to lower and raise stoppers. Not to be used for expansion or retraction of stoppers.



H-624 Air Power Operator

Rev. 12-06 Shaded area indicates changes



Mueller Steel Wedge Stopper Replacement Parts

| Item | Part Name | No. Req'd | With Polyurethane Cover for Use With Gas or Petroleum | | | | |
|------|-------------------------|--------------|---|--------|--------|--------|--------|
| No. | | | Standard | | | Thin | |
| | | | 4" | 6" | 8" | 6" | 8" |
| | Stopper complete | | 89694 | 89696 | 89698 | 89700 | 89702 |
| 1 | Driving square | 1 | 53558 | - | - | - | - |
| 2 | Retaining pin | 1 | 53747 | - | - | - | - |
| 3 | Expander screw | 1 | 506851 | 506853 | 506853 | 506853 | 506853 |
| 4 | Top wedge expander | 1 | 580645 | 580646 | 580646 | 580646 | 580646 |
| 5 | Top wedge retainer pins | 2 | 502069 | 502069 | 502069 | 502069 | 502069 |
| 6 | Cylinder and webs | 1 | 580639 | 580640 | 580641 | 89187 | 89188 |
| 7 | Clamp bars | 12 | 502064 | 502065 | 502065 | 502065 | 502065 |
| 8 | Clamp bar retainer nuts | 12 | 502753 | 310784 | 310784 | 310784 | 310784 |
| 10 | Bottom expander wedge | 1 | 580643 | 580644 | 580644 | 580644 | 580644 |
| 11 | Expander screw lock nut | 1 | 506852 | 506854 | 506854 | 506854 | 506854 |
| 12 | Lock nut set screw | 1 | 301170 | 301169 | 301169 | 301169 | 301169 |
| 13 | Protector sleeve | 1 | 53905 | 580725 | 580726 | 580727 | 580728 |

Replacement DIY Kits

Stoppers with polyurethane covers may be returned to the factory for recovering — Contact your Mueller distributor, sales representative or Gas Customer Service for details. The factory can also convert to polyurethane older steel wedge stoppers that have Positive Control™ or Neoprene covers. (Form 12327)

| | Size* | Part # | Wall |
|---|-------|--------|----------|
| | 4" | 682201 | - |
| Polyurethane Covered Cylinder for Gas or | 6" | 682204 | Standard |
| Petroleum Use | 6" | 682207 | Thin |
| | 8" | 682210 | Standard |
| | 8" | 682213 | Thin |

Shaded area indicates change Rev. 11-18

Mueller H-17346 Unit No. 3SW Completion Machine

- ☐ Catalog number **H-17346**
- □ Hand operation
- ☐ Used to align, insert and extract 4", 6", and 8" Completion Plugs in Line Stopper Fittings, Flanged Service Tees and Save-A-Valve® Drilling Nipples
- ☐ Used in conjunction with Control Valve 9-1/4" Gate Valve (83953)
- ☐ Comes in Wooden Storage Chest (304772)
- ☐ Includes Operating Instruction Manual (Form 8834)
- ☐ Completion Plug Wrench (36424) included
- ☐ Inserting Tool (83237) included
- ☐ Extracting Tool (83238) included
- □ Tools for 4" Applications Sold Separately
- □ Balanced pressure feature
- □ 275 psig (1898 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the plug alignment, plug inserting or plug extracting operation has a maximum working pressure or temperature rating less than that specified above.



H-17346

Mueller NO-BLO® Operations performed by the Mueller H-17346 Completion Machine

| Item | Size* of Fitting | | | Mueller NO-BLO Operation |
|---------------------------------------|------------------|----|----|---|
| Mueller Line Stopper Fittings | 4" | 6" | 8" | |
| Mueller Flanged Tees | 4" | 6" | 8" | Align, insert and extract completion plug |
| Mueller Save-A-Valve Drilling Nipples | 4" | 6" | 8" | |

Rev. 12-06 Shaded area indicates changes

Alignment Tool

Alignment tools are used with the completion plug to align the line stopper machine and equipment with the installed line stopper fitting, flanged tee or Save-A-Valve® Drilling Nipples.

| Siz | e* | Tool Complete | Fork | Collar | Set Screw | Set Screw | Spring | Shank | Nut |
|------|------|---------------|-------|--------|-----------|-----------|--------|--------|-------|
| 4' | " | 83774 | 53858 | 500038 | 97970 | 53857 | 46696 | 500036 | 46694 |
| 6" 8 | k 8" | 83250 | 53862 | 46695 | 98429 | 53857 | 46696 | 60326 | 46694 |



Alignment Tool

Mueller E-Z Release® Inserting Tool

Inserting tools are used to insert completion plugs in Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|---------|---------------|-------|--------|-----------|--------|--------|-------|
| 4" | 83772 | 53509 | 500038 | 97970 | 46696 | 500037 | 46694 |
| 6" & 8" | 83237 | 46697 | 46695 | 98429 | 46696 | 50024 | 46694 |



E-Z Release **Inserting Tool**

Extracting Tool

Extracting tools are used to remove completion plugs from Mueller line stopper fittings, flanged tee or Save-A-Valve® Drilling Nipples under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|---------|---------------|-------|--------|-----------|--------|--------|-------|
| 4" | 83773 | 53508 | 500038 | 97970 | 46696 | 500037 | 46694 |
| 6" & 8" | 83238 | 46698 | 46695 | 98429 | 46696 | 50024 | 46694 |



Extracting Tool

Completion Plug Wrench

Completion plug wrench is used to "final" tighten the completion plug before the completion lid is attached and is also used to "break" the plug loose prior to removal using the extracting tool.

| Size* | Tool Complete |
|---------|---------------|
| 4" | 36404 |
| 6" & 8" | 36424 |



Completion **Plug Wrench**

Thread Cleaning Tool

Thread cleaning tool is used to remove any pipe chips or other drilling debris from the completion plug threads in the fitting prior to installation of the completion plug.

| Size* | Tool Complete | Shank | Washer | Hex Cap Screw | Brush | Spacer Bar | Bolt | Coupling Nut |
|---------|---------------|--------|--------|------------------|--------|------------|--------|-----------------|
| 4" | 680360 | 503959 | 45556 | 98570 | 301919 | 503954 | 503955 | 46694 |
| 6" & 8" | 89319 | 503957 | 45556 | 98570 | 301919 | 503956 | 503955 | 46694 |

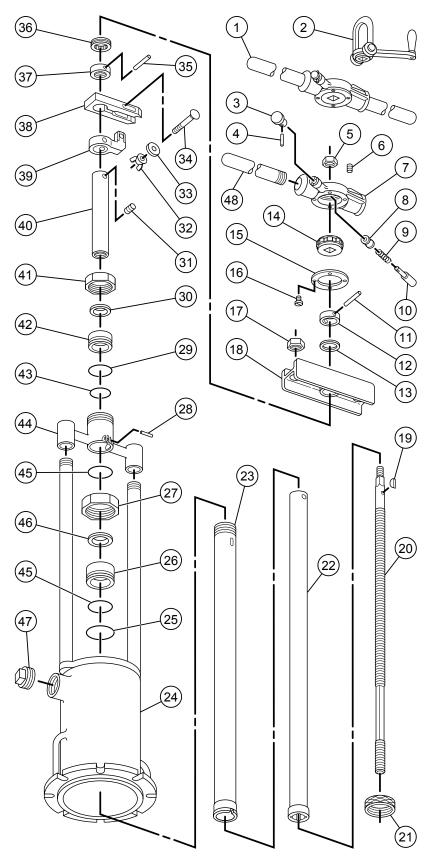




Cleaning Tool

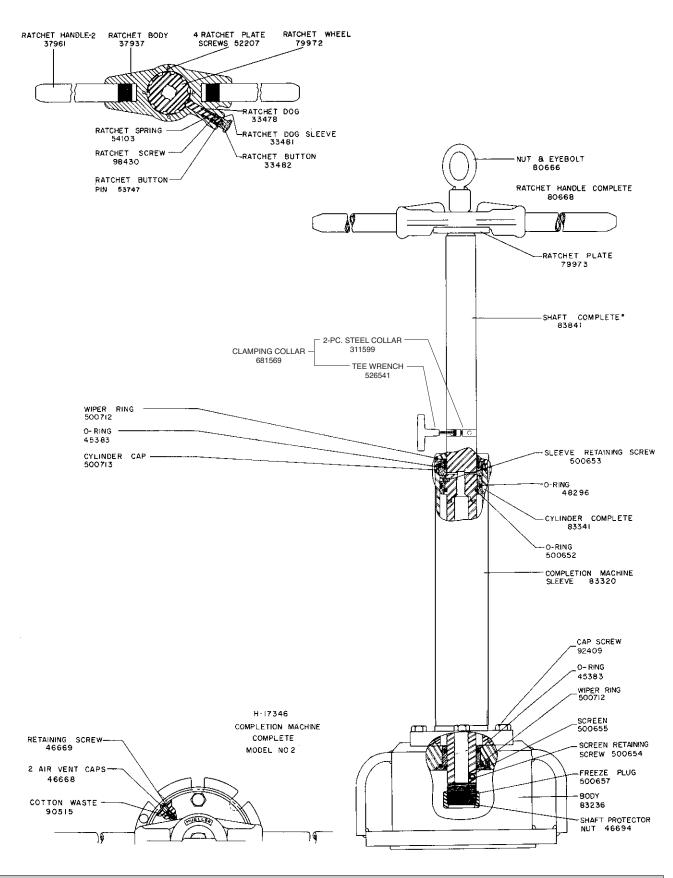
Shaded area indicates change Rev. 6-10

| Item NO. | Part Number | Part Name (quanity) |
|-------------|----------------|----------------------------------|
| 1 | 80668 | Ratchet handle complete |
| 2 | 83111 | Crank/lift handle assembly |
| 3 | 33482 | Ratchet button |
| 4 | 53747 | Pin |
| 5 | 46028 | Nut |
| 6 | 98430 | Screw (2) |
| 7 | 37937 | Rachet handle body |
| 8 | 33481 | Rachet dog sleeve |
| 9 | 54103 | Rachet spring |
| 10 | 33478 | Rachet dog |
| 11 | 60507 | Pin |
| 12 | 44268 | Collar |
| 13 | 45215 | Trust washer |
| 14 | 79972 | Rachet wheel |
| 15 | 79973 | Rachet plate |
| 16 | 52207 | Screw (4) |
| 17 | 52055 | Nut (2) |
| 18 | 83108 | Guide post tie bar assembly |
| | | |
| 19 20 | 79987 | Key |
| | 45111* | Operating tube screw |
| 21 | 79981 | Coupler nut |
| 22 | 83106 | Operating tube |
| 23 | 44280 | Guide tube |
| 24 | 83101 | Pressure Chamber assembly |
| 25 | 501419 | O-ring |
| 26 | 508537 | Lower packing gland |
| 27 | 44168 | Body packing nut |
| 28 | 60350 | Pin |
| 29 | 78828 | O-ring |
| 30 | 48137 | Upper wiper ring |
| 31 | 98522 | Screw (3) |
| 32 | 94720 | Wing nut |
| 33 | 45556 | Washer |
| 34 | 90103 | Bolt |
| 35 | 503699 | Pin |
| 36 | 45120 | Thrust bearing |
| 37 | 44266 | Collar |
| 38 | 44277 | Clamp bar |
| 39 | 83110 | Operating tube clamp |
| 40 | 45114 | Operating tube nut |
| 41 | 60345 | Packing nut |
| 42 | 508538 | Upper Packing gland |
| 43 | 79506 | O-ring |
| 44 | 83109 | Guide tube cap assembly |
| 45 | 40855 | O-ring (2) |
| 46 | 501158 | Lower wiper ring |
| 47 | 52916 | Plug |
| 48 | 37961 | Handle |
| - | 96824 | Wooden storage chest (not shown) |
| | | Operating instruction manual |
| - | F8834 | (not shown) |

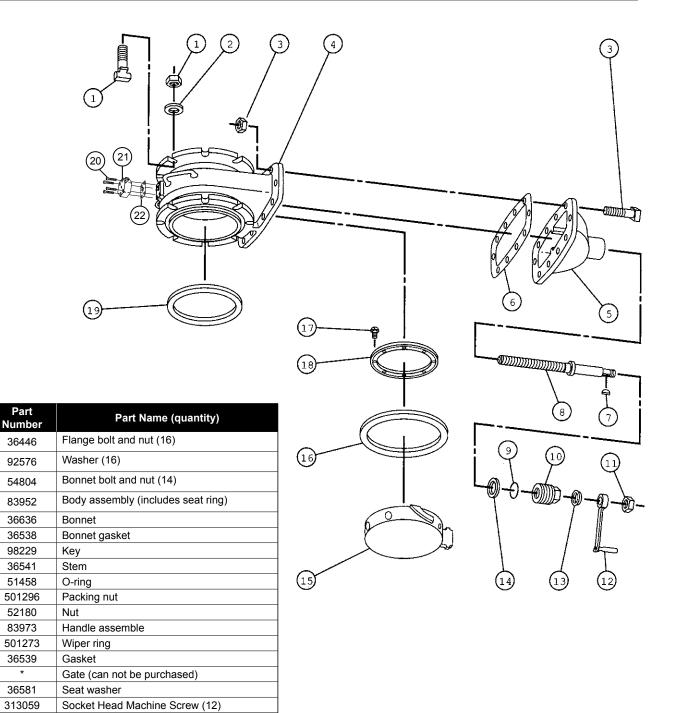


^{*} Not sold individually

Rev. 6-10 Shaded area indicates changes



Shaded area indicates change Rev. 6-10



Seat washer retainer

Wooden storage chest

Bypass stop assembly (includes 20 and 22)

Flange gasket (2)

Screw (4)

Gasket

Item

No.

Items not shown

Part

^{*}Not available as a replacement part. Shown for clarity only.



MUELLER® H-17342 UNIT NO. 3SW-500 STOPPING MACHINE

Rev. 3-08 Shaded area indicates changes

Mueller H-17342 Unit No. 3SW-500 Stopping Machine

| | Catalog | number | H-17342 |
|---|---------|---------|-----------|
| _ | Catalou | HUHHDCI | 11-11-574 |

☐ Hand operation or Power Operation (H624)

☐ Used to stop-off 4", 6" and 8" Line Stopper Fittings and Flanged Service Tees

☐ Body has integral 2" F.I.P. thread bypass connection

☐ Used in conjunction with Control Valve – 9-1/4" Gate Valve (83721)

☐ Come in Wooden Storage Case (304673)

☐ Includes Operating Instruction Manual (Form 9067)

☐ 500 psig (3450 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a maximum working pressure or temperature rating less than that specified above.



H-17342

Mueller NO-BLO® Operations performed by the Mueller H-17342 Stopping Machine

| Item | | Size* of Fitting | | Mueller NO-BLO Operation |
|-------------------------------|----|------------------|----|--------------------------|
| Mueller Line Stopper Fittings | 4" | 6" | 8" | Stop-off fitting |
| Mueller Flanged Tees | 4" | 6" | 8" | Stop-off tee |

^{*}Nominal size

Shaded area indicates change Rev. 6-17



Steel Wedge Stopper

Steel Wedge Stopper

Mueller polyurethane covered steel wedge stoppers are mechanically retracted and expanded for positive operation. These stoppers are made to be used with the full line of Mueller flanged line stopper fittings. (Polyurethane covered cylinder replacement kits and Positive Control™ Cover kits are available from Mueller Co.)

| Size* | Stopper Complete | Pipe Wall |
|-------|------------------|-----------|
| 4" | 89694 | Standard |
| 6" | 89696 | Standard |
| 6" | 89700 | Thin |
| 8" | 89698 | Standard |
| 8" | 89702 | Thin |

See next page for steel wedge stopper replacement parts and repair kits.



Bottom Out Rubber Stopper

Bottom Out Rubber Stopper

This stopper is used in Mueller bottom out line stopper fitting when the outlet is the section to be isolated so repairs or modifications can be made while maintaining service to customers. (Form 11967)

| Size* | Stopper Complete |
|-------|------------------|
| 4" | 681992 |
| 6" | 681994 |
| 8" | 681996 |

*Nominal size

Power Operators for Mueller 3SW, 3SW-500, & 4SW Machines H-624 Air Power Operator

- ☐ Reversible air motor
- ☐ 17 RPM free speed
- ☐ Air supply: 33 SCFM at 90 psig (full load)
- ☐ Machine only weight 17 lbs. (8 kg)
- ☐ Shipped in a wooden storage chest complete with inline lubricator
- ☐ **IMPORTANT**: Read operating instructions (form 13866)

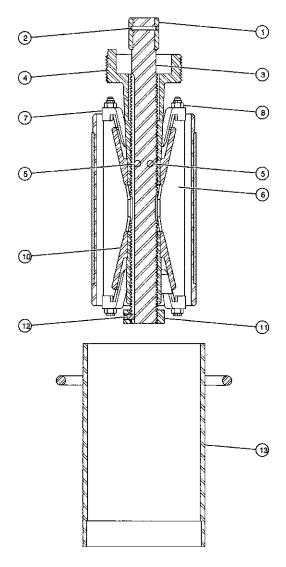
IMPORTANT: MAINTAIN PRESSURE OF 90 PSIG – THE USE OF A GAUGE AT THE THROTTLE TO DETERMINE THE ACTUAL PRESSURE OF AIR AT THE POWER OPERATOR IS RECOMMENDED.

Note: Used to lower and raise stoppers. Not to be used for expansion or retraction of stoppers.



H-624 Air Power Operator

Rev. 12-06 Shaded area indicates changes



Mueller Steel Wedge Stopper Replacement Parts

| Item | | No. | With | | nane Cov or petrol | | e with |
|------|-------------------------|-------|--------|----------|-----------------------|--------|--------|
| No. | Part Name | Req'd | | Standard | ı | Th | in |
| | | | 4" | 6" | 8" | 6" | 8" |
| | Stopper complete | | 89694 | 89696 | 89698 | 89700 | 89702 |
| 1 | Driving square | 1 | 53558 | - | - | - | - |
| 2 | Retaining pin | 1 | 53747 | - | - | - | - |
| 3 | Expander screw | 1 | 506851 | 506853 | 506853 | 506853 | 506853 |
| 4 | Top wedge expander | 1 | 580645 | 580646 | 580646 | 580646 | 580646 |
| 5 | Top wedge retainer pins | 2 | 502069 | 502069 | 502069 | 502069 | 502069 |
| 6 | Cylinder and webs | 1 | 580639 | 580640 | 580641 | 89187 | 89188 |
| 7 | Clamp bars | 12 | 502064 | 502065 | 502065 | 502065 | 502065 |
| 8 | Clamp bar retainer nuts | 12 | 502753 | 310784 | 310784 | 310784 | 310784 |
| 10 | Bottom expander wedge | 1 | 580643 | 580644 | 580644 | 580644 | 580644 |
| 11 | Expander screw lock nut | 1 | 506852 | 506854 | 506854 | 506854 | 506854 |
| 12 | Lock nut set screw | 1 | 301170 | 301169 | 301169 | 301169 | 301169 |
| 13 | Protector sleeve | 1 | 53905 | 580725 | 580726 | 580727 | 580728 |

Replacement DIY Kit

Stoppers with polyurethane covers may be returned to the factory for recovering — Contact you Mueller distributor, sales representative or Gas Customer Service for details. The factory can also convert to polyurethane older steel wedge stoppers that have Positive Control™ or Neoprene covers. (Form 12327)

| | Size* | Part # | Wall |
|---|-------|--------|----------|
| | 4" | 682201 | - |
| Polyurethane covered cylinder for gas or | 6" | 682204 | Standard |
| petroleum use | 6" | 682207 | Thin |
| | 8" | 682210 | Standard |
| | 8" | 682213 | Thin |

Shaded area indicates change Rev. 11-18

Mueller H-17347 Unit No. 3SW-500 Completion Machine

Catalog number H-17347

Hand operation

Used to align, insert and extract Completion Plugs in Line Stopper Fittings, Flanged Service Tees and Save-A-Valve® Drilling Nipples

Used in conjunction with Control Valve – 9-1/4" Gate Valve (83721)

Comes in Wooden Storage Chest (304772)

Includes Operating Instruction Manual (Form 9067)

Completion Plug Wrench (36424) included

Inserting Tool (83237) included

Extracting Tool (83238) included

Tools for 4" Applications Sold Separately

Balanced pressure feature

500 psig (3450 kPa) maximum working pressure at 100F (38C)

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the plug alignment, plug inserting or plug extracting operation has a maximum working pressure or temperature rating less than that specified above.



H-17347

Mueller NO-BLO® Operations performed by the Mueller H-17347 Completion Machine

| Item | Size* of Fitting | | | Mueller NO-BLO Operation |
|-------------------------------|------------------|----|----|---|
| Mueller Line Stopper Fittings | 4" | 6" | 8" | Align inport and outrant completion plus |
| Mueller Flanged Tees | 4" | 6" | 8" | Align, insert and extract completion plug |

^{*}Nominal size



MUELLER® UNIT NO. 3SW-500 COMPLETION MACHINE EQUIPMENT

Rev. 12-06 Shaded area indicates changes

Alignment Tool

Alignment tools are used with the completion plug to align the line stopper machine and equipment with the installed line stopper fitting.

| Size* | Tool Complete | Fork | Collar | Set Screw | Set Screw | Spring | Shank | Nut |
|---------|---------------|-------|--------|-----------|-----------|--------|--------|-------|
| 4" | 83774 | 53858 | 500038 | 97970 | 53857 | 46696 | 500036 | 46694 |
| 6" & 8" | 83250 | 53862 | 46695 | 98429 | 53857 | 46696 | 60326 | 46694 |



Alignment Tool

Mueller E-Z Release® Inserting Tool

Inserting tools are used to insert completion plugs in Mueller line stopper fittings under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|---------|---------------|-------|--------|-----------|--------|--------|-------|
| 4" | 83772 | 53509 | 500038 | 97970 | 46696 | 500037 | 46694 |
| 6" & 8" | 83237 | 46697 | 46695 | 98429 | 46696 | 50024 | 46694 |



E-Z Release Inserting Tool

Extracting Tool

Extracting tools are used to remove completion plugs from Mueller line stopper fittings under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|---------|---------------|-------|--------|-----------|--------|--------|-------|
| 4" | 83773 | 53508 | 500038 | 97970 | 46696 | 500037 | 46694 |
| 6" & 8" | 83238 | 46698 | 46695 | 98429 | 46696 | 50024 | 46694 |



Extracting Tool

Completion Plug Wrench

Completion plug wrench is used to "final" tighten the completion plug before the completion cap is attached and is also used to "break" the plug loose prior to removal using the extracting tool.

| Size* | Tool Complete |
|---------|---------------|
| 4" | 36404 |
| 6" & 8" | 36424 |



Completion Plug Wrench

Thread Cleaning Tool

The Tread Cleaning Tool is used to remove any pipe chips or other drilling debris from the completion plug threads in the fitting prior to installation of the completion plug.

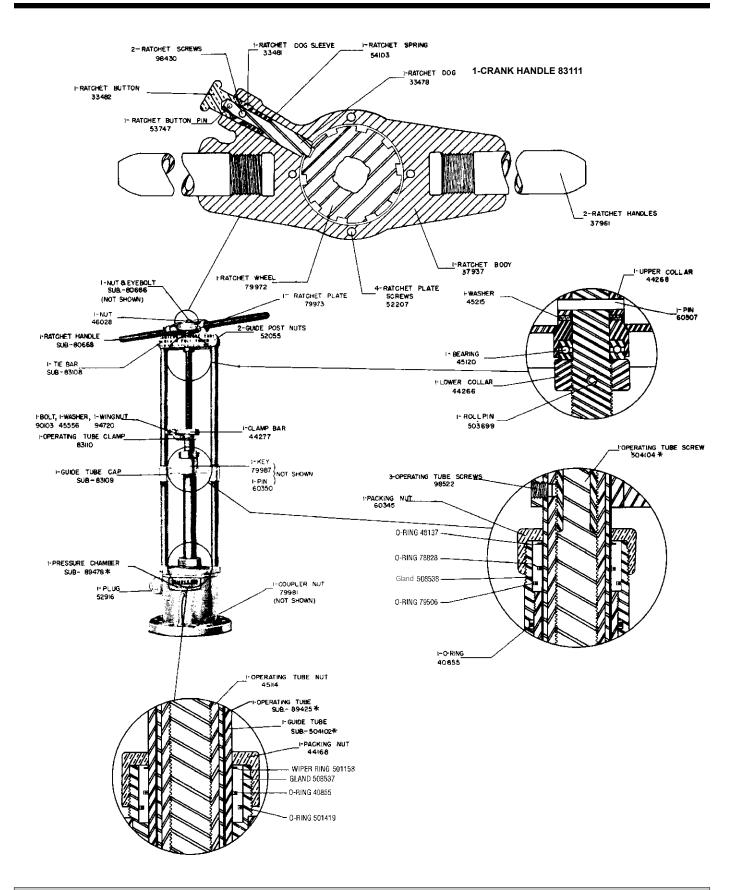
| Size* | Tool Complete | Shank | Washer | Hex Cap Screw | Brush | Spacer Bar | Bolt | Coupling Nut |
|---------|---------------|--------|--------|------------------|--------|---------------|--------|-----------------|
| 4" | 680360 | 503959 | 45556 | 98570 | 301919 | 503954 | 503955 | 46694 |
| 6" & 8" | 89319 | 503957 | 45556 | 98070 | 301919 | 503956 | 503955 | 46694 |



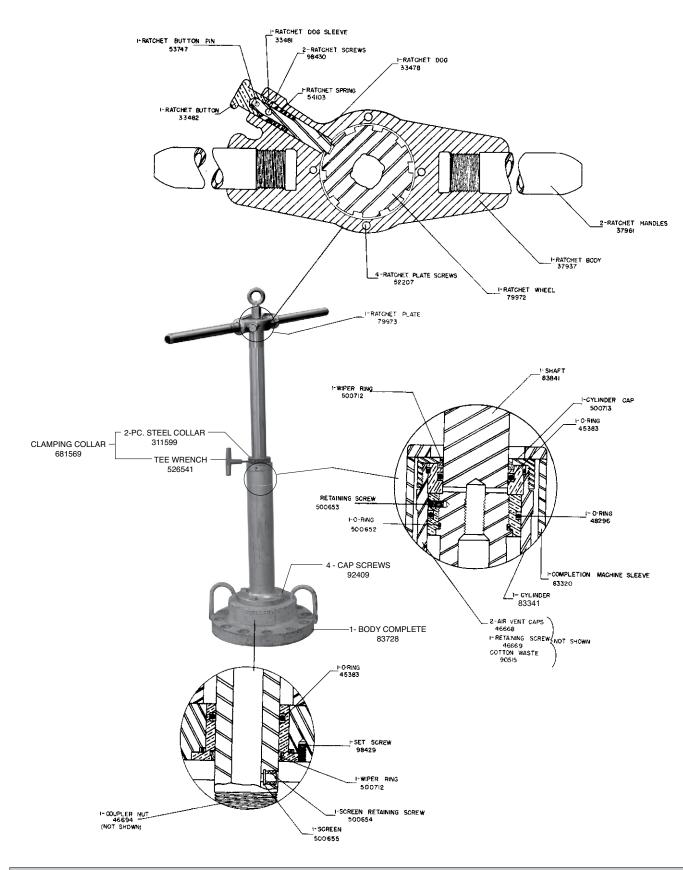


Thread Cleaning Tool

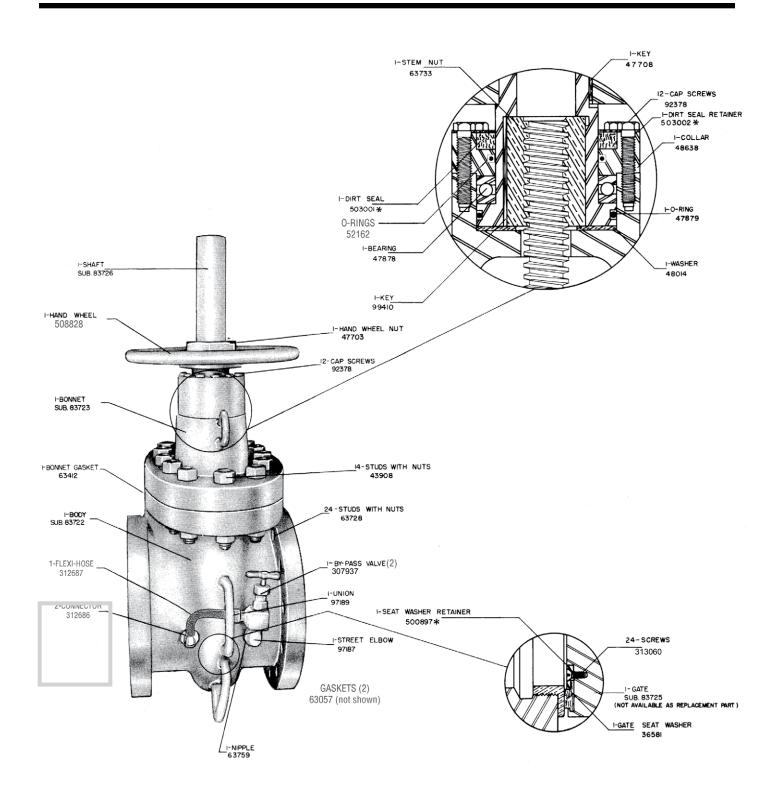
Shaded area indicates change Rev. 6-10



Rev. 6-10 Shaded area indicates changes



Shaded area indicates change Rev. 12-12





MUELLER® H-17440 UNIT NO. 4SW STOPPING MACHINE

Rev. 11-18 Shaded area indicates changes

Mueller H-17440 Unit No. 4SW Stopping Machine

| Catalog number H-17440 |
|---|
| Hand operation or Power Operation (H624) |
| Used to stop-off 10" and 12" Line Stopper Fittings |
| Body has integral 4" CL300 flanged bypass connection |
| Used in conjunction with Control Valve – CL400 14" Gate Valve (83318) |
| Alternate Control Valve for CL150 Operations - 14" Gate Valve (83565) |
| Includes Operating Instruction Manual (Form 8972) |
| 500 psig (3450 kPa) maximum working pressure at 100F (38C) |

NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a maximum working pressure or temperature rating less than that specified above.

Order Separately

- ☐ Eyebolt (**63846**)
- ☐ 1-11/16" Open End Wrench (**49211**)
- □ 2" Box Offset Pattern & 2" Open End Wrench (49212)



H-17440

Mueller NO-BLO® Operations performed by the Mueller 89430 Stopping Machine

| Item | Size* of | Fitting | Mueller NO-BLO Operation | | |
|-------------------------------|----------|---------|--------------------------|--|--|
| Mueller Line Stopper Fittings | 10" | 12" | Stop off fitting | | |

^{*}Nominal size

10.45

Shaded area indicates change Rev. 6-17



Steel Wedge Stopper

Steel Wedge Stopper

Mueller polyurethane covered steel wedge stoppers are mechanically retracted and expanded for positive operation. These stoppers are made to be used with the full line of Mueller flanged line stopper fittings. (Polyurethane covered cylinder replacement kits and "positive control" cover kits are available from Mueller Co.)

| Size* | Stopper Complete | Pipe Wall |
|-------|------------------|-----------|
| 10" | 89704 | Standard |
| 12" | 89704 | Standard |

See next page for steel wedge stopper replacement parts and repair kits.

Bottom Out Rubber Stopper

This stopper is used in Mueller bottom out line stopper fitting when the outlet is the section to be isolated so repairs or modifications can be made while maintaining service to customers. (Form 11967)

| Size* | Stopper Complete |
|-------|------------------|
| 10" | 681997 |
| 12" | 681997 |

Used only on 10" &12" 1999 or later enhanced fittings.

*Nominal size

Bottom Out Rubber Stopper

Power Operators for Mueller 3SW, 3SW-500, & 4SW Machines H-624 Air Power Operator

- ☐ Reversible air motor
- ☐ 17 RPM free speed
- ☐ Air supply: 33 SCFM at 90 psig (full load)
- ☐ Machine only weight 17 lbs. (8 kg)
- ☐ Shipped in a wooden storage chest complete with inline lubricator
- ☐ **IMPORTANT**: Read operating instructions (form 13866)

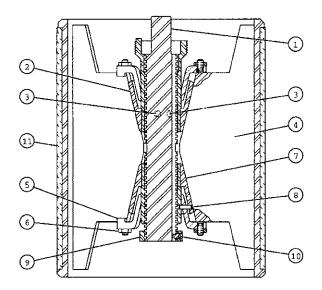
IMPORTANT: MAINTAIN PRESSURE OF 90 PSIG – THE USE OF A GAUGE AT THE THROTTLE TO DETERMINE THE ACTUAL PRESSURE OF AIR AT THE POWER OPERATOR IS RECOMMENDED.

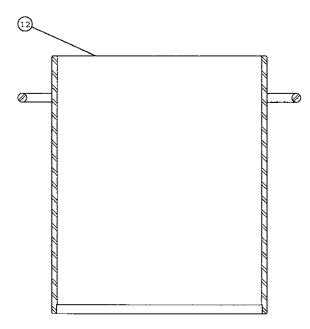
Note: Used to lower and raise stoppers. Not to be used for expansion or retraction of stoppers.



H-624 Air Power Operator

Rev. 12-12 Shaded area indicates changes





Mueller Steel Wedge Stopper Replacement Parts

| Item No. | Part Name | No. Req'd | With polyurethane Cover for use with gas or petroleum |
|-------------|-------------------------|--------------|---|
| 1 | Expander screw | 1 | 506853 |
| 2 | Top wedge expander | 1 | 580646 |
| 3 | Top wedge retainer pins | 2 | 502069 |
| 4 | Cylinder and webs | 1 | 580642 |
| 5 | Clamp bars | 18 | 502065 |
| 6 | Clamp bar retainer nuts | 18 | 310784 |
| 7 | Bottom expander wedge | 1 | 581261 |
| 8 | Retaining pin | 1 | 502068 |
| 10 | Expander screw lock nut | 1 | 506854 |
| 11 | Lock nut set screw | 1 | 301169 |
| 12 | Protector sleeve | 1 | 83156 |

Replacement DIY Kit

Stoppers with polyurethane covers may be returned to the factory for recovering — Contact you Mueller distributor, sales representative or Gas Customer Service for details. The factory can also convert to polyurethane older steel wedge stoppers that have Positive Control™ or Neoprene covers. (Form 12327)

| , | ethane Cover for use with gas or petroleum |
|------------------------|---|
| Replacement cover kit* | 682216 |



10.47

Shaded area indicates change Rev. 11-18

Mueller H-17445 Unit No. 4SW Completion Machine

| Catalog number H-17445 |
|---|
| Hand operation |
| Used to align, insert and extract 10" and 12" Completion Plugs in Line Stopper Fittings |
| Used in conjunction with Control Valve – 14" CL400 Gate Valve (83318) |
| Alternate 14" CL150 Gate Valve (83565) 681528 Adapter Ring used to adapt 083318 to CL150 fittings |
| Sold Separately: 83237 Inserting Tool, 83238 Extracting Tool, 83250 Alignment Tool, and 36424 Completion Plug Wrench. |
| Balanced pressure feature |
| 500 psig (3450 kPa) maximum working pressure at 100F (38 C) NOTE: The working pressure or temperature rating is reduced accordingly if any attachment, valve, or |

fitting subjected to pressure or temperature during the drilling, stopping or completion operations has a



H-17445

maximum working pressure or temperature rating less than that specified above.

Mueller NO-BLO® Operations performed by the Mueller H-17445 Completion Machine

| ltem | Size* of Fitting | | Mueller NO-BLO Operation |
|-------------------------------|------------------|-----|---|
| Mueller Line Stopper Fittings | 10" | 12" | Align, insert and extract completion plug |

*Nominal size



MUELLER® UNIT NO. 4SW COMPLETION MACHINE EQUIPMENT

Rev. 12-06 Shaded area indicates changes

Alignment Tool

Alignment tools are used with the completion plug to align the line stopper machine and equipment with the installed line stopper fitting.

| Size* | Tool Complete | Fork | Collar | Set Screw | Thumb Screw | Spring | Shank | Nut |
|-----------|---------------|-------|--------|-----------|----------------|--------|-------|-------|
| 10" & 12" | 83250 | 53862 | 46695 | 98429 | 53857 | 46696 | 60326 | 46694 |



Alignment Tool

Mueller E-Z Release® Inserting Tool

Inserting tools are used to insert completion plugs in Mueller line stopper fittings under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|-----------|---------------|-------|--------|-----------|--------|-------|-------|
| 10" & 12" | 83237 | 46697 | 46695 | 98429 | 46696 | 50024 | 46694 |



E-Z Release Inserting Tool

Extracting Tool

Extracting tools are used to remove completion plugs from Mueller line stopper fittings under pressure.

| Size* | Tool Complete | Fork | Collar | Set Screw | Spring | Shank | Nut |
|-----------|---------------|-------|--------|-----------|--------|-------|-------|
| 10" & 12" | 83238 | 46698 | 46695 | 98429 | 46696 | 50024 | 46694 |



Extracting Tool

Thread Cleaning Tool

Thread cleaning tool is used to remove any pipe chips or other drilling debris from the completion plug threads in the fitting prior to installation of the completion plug.

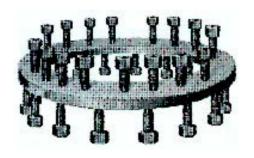
| Size | Tool Con | nplete Shank | Washer | Hex Cap Screw | Brush | Spacer Bar | Bolt | Coupling Nut |
|-------|----------|--------------|--------|------------------|--------|---------------|--------|-----------------|
| 10" & | 2" 8932 | 1 503957 | 45556 | 98570 | 301919 | 503958 | 503955 | 46694 |





Thread Cleaning Tool

Shaded area indicates change Rev. 12-06



Adapter Ring

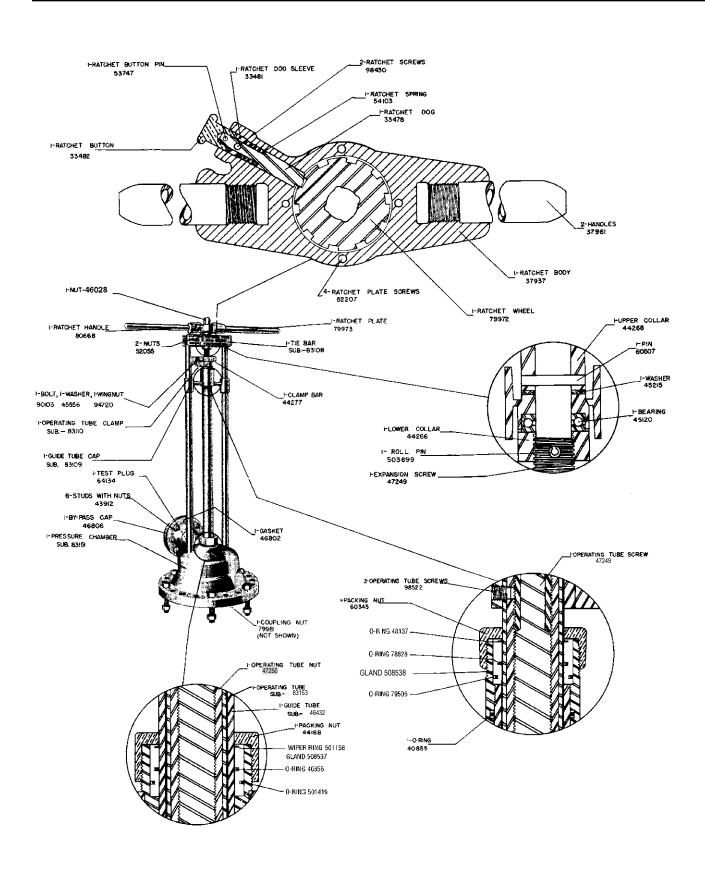
Adapter Ring

This adapter ring is used to adapt a 4SW gate valve (83318) to a Class 150 flanged 10" or 12" line stopper fitting.

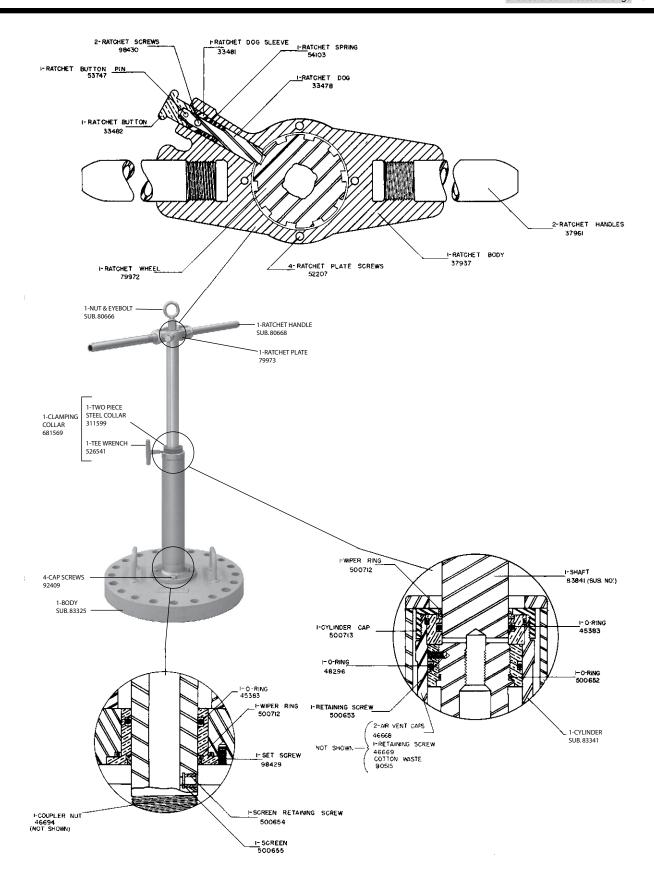
| Adapter Ring | Valve | Fittings |
|--------------|------------------------|----------------------|
| 681528 | 4SW gate valve (83318) | 10" and 12" fittings |



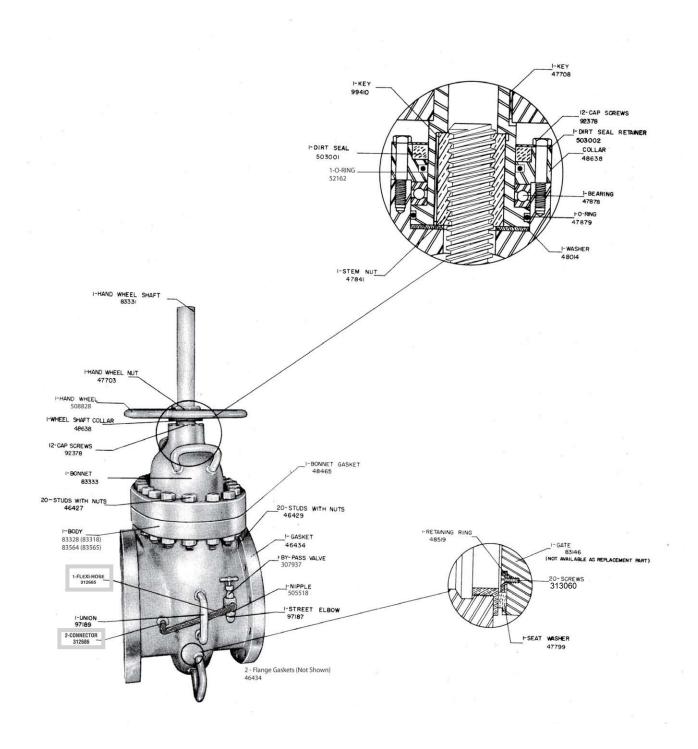
Rev. 7-16 Shaded area indicates changes



Shaded area indicates change Rev. 6-10



Rev. 10-21 Shaded area indicates changes



10.53

Shaded area indicates change Rev. 12-06

H-17619 Inspection Flange

500 psig (3447 kPa) Maximum Working Pressure Pressure, 100F (38C) Maximum Temperature Rating*

H-17619 Inspection Flange

The H-17619 inspection flange is for visually determining the condition of the inside of line stopper fittings after the drilling operation is completed. This may be done under pressure with no blowing of gas. The flange contains a pressure-tight plastic window of sufficient strength to withstand a gas pressure of 500 psig. The retrieving rod has a ball-joint type of pressure seal permitting it to be raised or lowered, rotated or moved from side to side.

The H-17619 inspection flange is used with line stopper units no. 1, 2, 3 3SW, 3SW-500 and 4SW.

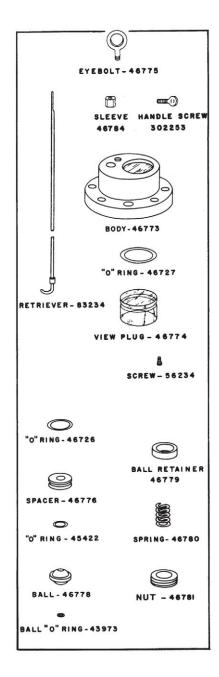
For line stopping unit no. 1, It is used with the special inspection flange adapter, 83204, shown below.

For line stopping units no. 2, 3, 3SW, 3SW-500 and 4SW, it is used with the drilling machine adapter attached to the line stopper unit gate valve.

The gate valve is then opened permitting visual inspection of the inside of the fitting, including the hole drilling through the pipe. The retrieving rod may be used to locate, raise and hold above the gate valve any object which might interfere with the operation of the stopper such as chips, scale or a section of the pipe. The gate valve is then closed and the inspection flange and any objects held by the retrieving rod are then removed from the adapter.

*The working pressure or temperature rating is reduced accordingly if any attachment, valve or fitting subjected to pressure or temperature has a maximum working pressure or temperature rating less than that specified above.

The following attachments are required for using the **H-17619** inspection flange with line stopping unit no. 1 (1-1/2", 2", 2-1/4" and 2-1/2" line stopper fittings).









55449 Gasket



83204 Inspection Flange Adapter

55409: Washers (8 Required)

54804: Bolts and Nuts for Inspection Flange Adapter (8 Required)

55449: Gasket for Inspection Flange

83204: Inspection Flange Adapter

500557: 3" x 2-1/2" Bushing



500557 Bushing



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