

PRODUCT CATALOG

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PART ONE

HOT TAP EQUIPMENT

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PART 1 - SECTION 1

MODEL E4 TAPPING MACHINES

The model E4 Tapping Machine is a compact operated Tapping Machine, used for field operations in tap sizes, 3/8 inch thru 4 inch.

The machine may be powered either manually or air motor.

SPECIFICATIONS

Boring Bar Travel		12, 18, 24, 30 inches
Tapping Size Range		3/8" thru 4"
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Manually/Air

NOTE

STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
E4-12	MODEL E4-12 TAPPING MACHINE 12 INCHES TRAVEL	26.5	12	39
E4-18	MODEL E4-18 TAPPING MACHINE 18 INCHES TRAVEL	37	17	48
E4-24	MODEL E4-24 TAPPING MACHINE 24 INCHES TRAVEL	49	23	61
E4-30	MODEL E4-30 TAPPING MACHINE 30 INCHES TRAVEL	61	28	72

NOTE

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-CH	CRANK HANDLE	2	1
E4-BV	BLEEDER VALVE	<1	<1
E4-VN	VALVE NIPPLE	<1	<1
E4-PW	PACKING WRENCH	<1	<1
E4-DC	“D” RETAINER CLIP	<1	<1
E4-SP	STANDARD PACKING	<1	<1
E4-OM	OPERATIONS MANUAL	-	-
E4-AB	ACCESSORY BOX	1	0.5

E4 ACCESSORIES

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-ADU	OPTIONAL AIR DRIVE ANGLE WRENCH	8	3.5
E4-DS	AIR DRIVE SOCKET	<1	<1
E4-SSP	SEVERE SERVICE PACKING	<1	<1
E4-CC	PERMANENT STEEL CARRYING CASE	16	7
E4-FC	FLOW CONTROL	<1	<1

NOTE

**STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE
USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO
PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY**

TWIST DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-TD-.38X	3/8” EXTENDED LENGTH TWIST DRILL	<1	<1
E4-TD-.5	1/2” STD. LENGTH TWIST DRILL	<1	<1
E4-TD-.5X	1/2” EXTENDED LENGTH TWIST DRILL	1	0.5
E4-TD-.63	5/8” STD. LENGTH TWIST DRILL	1	0.5
E4-TD-.63X	5/8” EXTENDED LENGTH TWIST DRILL	1	0.5
E4-TD-.75	3/4” STD. LENGTH TWIST DRILL	1	0.5
E4-TD-.75X	3/4” EXTENDED LENGTH TWIST DRILL	1	0.5
E4-TD-.875	7/8” STD. LENGTH TWIST DRILL	1	0.5
E4-TD-.875X	7/8” EXTENDED LENGTH TWIST DRILL	1	0.5
E4-TD-1	1” STD. LENGTH TWIST DRILL	1	0.5
E4-TD-1X	1” EXTENDED LENGTH TWIST DRILL	1.5	0.75
E4-TD-1.25	1-1/4” STD. LENGTH TWIST DRILL	1	0.5
E4-TD-1.437	1-7/16” STD. LENGTH TWIST DRILL	1	0.5

HOLE SAWS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-HS-1.250	1-1/4" HOLE SAW	<1	<1
E4-HS-1.500	1-1/2" HOLE SAW	<1	<1
E4-HS-1.750	1-3/4" HOLE SAW	<1	<1
E4-HS-1.875	1-7/8" HOLE SAW	<1	<1
E4-HS-2.250	2-1/4" HOLE SAW	<1	<1
E4-HS-2.500	2-1/2" HOLE SAW	<1	<1
E4-HS-2.875	2-7/8" HOLE SAW	<1	<1
E4-HS-3.500	3-1/2" HOLE SAW	<1	<1
E4-HS-3.875	3-7/8" HOLE SAW	1	0.5

SPECIAL SIZE HOLE SAWS AVAILABLE UPON REQUEST

HOLE SAW HOLDERS

FOR SIZE ON SIZE HOT TAPS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
SIZE ON SIZE TAPS			
E4-HSH-1.25	1-1/4" SIZE ON SIZE HOLDER	0.5	0.25
E4-HSH-1.5-2	1-1/2"-2-1/4" SIZE ON SIZE HOLDER	0.75	0.25
E4-HSH-2.5-3	2-1/2"-3" SIZE ON SIZE HOLDER	0.75	0.25
E4-HSH-3.5-4	3-1/2"-4" SIZE ON SIZE HOLDER	0.75	0.25
E4-HSH-6	5-1/2" SIZE ON SIZE HOLDER	2	1

HOLE SAW HOLDERS

FOR OTHER THAN SIZE ON SIZE HOT TAPS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
OTHER THAN SIZE ON SIZE TAPS			
E4-HSH-1.25L	1-1/4" HOLE SAW HOLDER FOR OTHER THAN SIZE ON SIZE	0.5	0.25
E4-HSH-1.5-2L	1-1/2"-2-1/4" HOLE SAW HOLDER FOR OTHER THAN SIZE ON SIZE	0.75	0.25
E4-HSH-2.5-3L	2-1/2"-3" HOLE SAW HOLDER FOR OTHER THAN SIZE ON SIZE	0.75	0.25
E4-HSH-3.5-4L	3-1/2"-4" HOLE SAW HOLDER FOR OTHER THAN SIZE ON SIZE	0.75	0.25
E4-HSH-6L	5-1/2" HOLE SAW HOLDER FOR OTHER THAN SIZE ON SIZE	2	1

ALL HOLE SAW HOLDERS HAVE MULTI WIRE CLIPS

THREADED VALVE ADAPTERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-TA-.75	3/4" X 2" NPT STD. LENGTH THREADED ADAPTER	1	0.5
E4-TA-.75L	3/4" X 2" NPT EXTENDED LENGTH THREADED ADAPTER	3	1.25
E4-TA-1	1" X 2" NPT STD. LENGTH THREADED ADAPTER	1	0.5
E4-TA-1L	1" X 2" NPT EXTENDED LENGTH THREADED ADAPTER	3	1.25
E4-TA-1.25	1-1/4" X 2" NPT STD. LENGTH THREADED ADAPTER	1	0.5
E4-TA-1.5	1-1/2" X 2" NPT STD.LENGTH THREADED ADAPTER	1	0.5
E4-TA-2	2" X 2" NPT STD.LENGTH THREADED ADAPTER	1	0.5
E4-TA-3	3" X 2" NPT STD.LENGTH THREADED ADAPTER	3	1.25

FLANGED TAPPING ADAPTERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E4-FTA-.75-150	3/4"-150# RF STD.	2	1
E4-FTA-.75-150L	3/4"-150# RF EXTENDED	3	1.25
E4-FTA-1-150	1"-150# RF STD.	3	1.25
E4-FTA-1-150L	1"-150# RF EXTENDED	4	2
E4-FTA-1.25-150	1-1/4"-150# RF STD. LENGTH	3	1.25
E4-FTA-1.5-150	1-1/2"-150# RF STD.	4	2
E4-FTA-2-150	2"-150# RF STD.	6	2.5
E4-FTA-3-150	3"-150# RF STD.	10	4.5
E4-FTA-4-150	4"-150# RF STD.	15	7
E4-FTA-6-150	6"-150# RF STD.	24	11
E4-FTA-.75-300	3/4"-300# RF STD.	2	1
E4-FTA-.75-300L	3/4"-300# RF EXTENDED	3	1.25
E4-FTA-1-300	1"-300# RF STD.	3	1.25
E4-FTA-1-300L	1"-300# RF EXTENDED	4	2
E4-FTA-1.25-300	1-1/4"-300# RF STD.	5	2.25
E4-FTA-1.5-300	1-1/2"-300# STD.	7	3.25
E4-FTA-2-300	2"-300# RF STD.	9	4
E4-FTA-3-300	3"-300# RF STD.	15	7
E4-FTA-4-300	4"-300# RF STD.	25	11.5
E4-FTA-6-300	6"-300# RF STD.	42	19
E4-FTA-.75-600	3/4"-600# RF STD.	3	1.25
E4-FTA-.75-600L	3/4"-600# RF EXTENDED	4	2
E4-FTA-1-600	1"-600# RF STD.	4	2
E4-FTA-1-600L	1"-600# RF EXTENDED	5	2.25
E4-FTA-1.25-600	1-1/4"-600# RF STD.	6	2.75
E4-FTA-1.5-600	1-1/2"-600# RF STD.	8	3.75
E4-FTA-2-600	2"-600# RF STD.	12	5.5
E4-FTA-3-600	3"-600# RF STD.	23	10.25
E4-FTA-4-600	4"-600# RF STD.	42	19
E4-FTA-6-600	6"-600# RF STD.	81	37

**SPECIAL SIZES AND "RTJ" FLANGES AVAILABLE UPON REQUEST
PLEASE CONSULT FACTORY**

PART 1 - SECTION 2

MODEL EQB-E4-30 HIGH PRESSURE EQUAL BALANCE TAPPING MACHINE

The model EQB-E4-30 Tapping Machine is a compact operated Tapping Machine, used for field operations in tap sizes 3/8 inch thru 4 inch. Tapping machine has 2"-900# RTJ flanged and 2" NPT connection.

The machine may be powered either manually or air motor.

SPECIFICATIONS

Boring Bar Travel		30 inches
Tapping Size Range		3/8" thru 4"
MAOP		2220 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	400° F @ 700 psig
Power Options		Manually/Air Motor

NOTE

STANDARD PACKING IS RATED AT 2220 PSI AT UP TO 100° F
700 PSI @ 280 F

SEVERE PACKING IS RATED AT 700 PSI AT UP TO 400° F

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
EQB-E4-30	MODEL EQB-E4-30 TAPPING MACHINE 30 INCHES TRAVEL	88	40	78

**TAPPING MACHINE ACCESSORIES APPLICABLE TO THE MODEL E4 ARE
APPLICABLE TO THE MODEL EQB-E4-30**

PART 1 - SECTION 3

MODEL E206 TAPPING MACHINE

The model E206 Tapping Machine is a compact (145LB Weight) Power operated Tapping Machine, used for field operations in tap Sizes 2 inch thru 6 inch.

The machine may be powered either air, requiring continuous 90 psig @ 105 CFM, via a well proven Vane type Air motor and a 2:1 Reduction Gearing, or Hydraulically via Diesel Hydraulic Power Unit.

While a Gasoline Powered Unit is available, we recommend the use of a Diesel engine unit for the hydraulic option. This provides for added safety in Hazardous Areas, as well as an engine with a flatter torque curve and longer life.

SPECIFICATIONS

Boring Bar Travel		30 inches
Tapping Size Range		2" thru 6"
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Air/Hydraulic
Auto Feed Rate		0.005"/Rev.

NOTE

STANDARD PACKING RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
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PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
E206-00	MODEL E206 TAPPING MACHINE 30 INCHES TRAVEL BASE MACHINE ONLY	145	70	50

NOTE

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-TS	TRANSPORTATION SKID	80	37
E206-MR	MEASURING ROD	5	2.25
E206-BV	BLEEDER VALVE	<1	<1
E206-VN	VALVE NIPPLE	<1	<1
E206-IPW	INNER PACKING WRENCH	<1	<1
E206-OPW	OUTER PACKING WRENCH	2	1
E206-ISP	INNER STANDARD PACKING INSTALLED	<1	<1
E206-OSP	OUTER STANDARD PACKING INSTALLED	<1	<1
E206-OM	OPERATIONS MANUAL	-	-
E206-AB	ACCESSORY BOX	1	0.5
E206-RG	2"600RTJ RING GASKET	1	0.5

POWER OPTIONS

THE MODEL E206 TAPPING MACHINE IS SUPPLIED WITH EITHER AIR OR HYDRAULIC POWER OPTIONS.

IF CHOOSING THE HYDRAULIC OPTION YOU SHOULD BE AWARE THAT THE MACHINE REQUIRES A DEDICATED HYDRAULIC POWER UNIT AS DEFINED BELOW.

A) AIR OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-AM	AIR MOTOR	26	12
E206-RD	2:1 REDUCTION GEAR ASSEMBLY	15	7
E206-VU	VITALIZER UNIT	8	4.5
E206-FW	FLY WHEEL	15	7

B) HYDRAULIC OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-HM	HYDRAULIC MOTOR AND CONTROL SYSTEM	40	18
E206-HPU	DIESEL/HYDRAULIC POWER UNIT	700	318
E206-FW	FLY WHEEL	15	7

DIESEL HYDRAULIC POWER UNIT SPECIFICATIONS

Diesel Engine	20 HP Diesel Engine
Pump	Vane pump rated at 20 GPM
Tank	50 US Gallons
Pressure Relief Valve	Factory Preset at 1100 psig
Starting System	Electric 12V
Fluid Level and Temperature	Indicator on Tank
Mounting	Unit skid mounted
Hoses	50' Pressure and return Hoses included
Couplings	Parker quick release/positive shutoff or equivalent.

MODEL E206 TAPPING MACHINE ACCESSORIES

CUTTER HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-CH-0304	3" AND 4" CUTTER HOLDER	2	0.9
E206-CH-06	6" CUTTER HOLDER	6.5	3

PLUG HOLDER

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-PH-0406	4" – 6" PLUG HOLDER	3.5	2

HOT TAP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-HT	3" HOT TAP PILOT DRILL	0.4	0.2
PD-04-HT	4" HOT TAP PILOT DRILL	0.5	0.3
PD-06-HT	6" HOT TAP PILOT DRILL	1.5	0.8

LINE STOP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-LS	3" LINESTOP PILOT DRILL	0.4	0.2
PD-04-LS	4" LINESTOP PILOT DRILL	0.5	0.3
PD-06-LS	6" LINESTOP PILOT DRILL	1.5	0.8

HOT TAP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
HTC-03-HSS	3" HOT TAP CUTTER	2.438	1	0.4
HTC-04-HSS	4" HOT TAP CUTTER	3.438	2	0.9
HTC-06-HSS	6" HOT TAP CUTTER	5.469	6	2.8

LINESTOP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
LSC-04-HSS	3" LINESTOP CUTTER	2.875	2	1.5
LSC-04-HSS	4" LINESTOP CUTTER	3.937	5	2.2
LSC-06-HSS	6" LINESTOP CUTTER	5.937	6	2.8

E206 TAPPING ADAPTERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E206-TA-0215	2"-150# RF TAPPING ADAPTER	8	7
E206-TA-0315	3"-150# RF TAPPING ADAPTER	11	10
E206-TA-0415	4"-150# RF TAPPING ADAPTER	15	15
E206-TA-0615	6"-150# RF TAPPING ADAPTER	38	18
E206-TA-0230	2"-300# RF TAPPING ADAPTER	18	8
E206-TA-0330	3"-300# RF TAPPING ADAPTER	24	11
E206-TA-0430	4"-300# RF TAPPING ADAPTER	42	19
E206-TA-0630	6"-300# RF TAPPING ADAPTER	62	28
E206-TA-0260	2"-600# RF TAPPING ADAPTER	23	10
E206-TA-0360	3"-600# RF TAPPING ADAPTER	27	12
E206-TA-0460	4"-600# RF TAPPING ADAPTER	35	16
E206-TA-0660	6"-600# RF TAPPING ADAPTER	75	19

**E206 TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH RTJ
FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX
"RTJ"**

TWIST DRILLS TO SUIT MODEL E206

PART NUMBER	DESCRIPTION	WEIGHT LB	WEIGHT KG
TD-E206-1.0	1" DIA. TWIST DRILL	1.7	0.8
TD-E206-1.25	1-1/4" DIA. TWIST DRILL	2.3	1.0
TD-E206-1.437	1-7/16" DIA. TWIST DRILL	3	1.25
TD-E206-1.5	1-1/2" DIA. TWIST DRILL	3.5	1.6
TD-E206-2.0	2" DIA. TWIST DRILL	4.3	2

PART 1 - SECTION 4

MODEL E312 TAPPING MACHINE

The model E312 Tapping Machine is the smallest of the “300 series” machines. Providing a tapping size range of 3 inch thru 12 inch, with a Boring Bar Travel of 42 inches.

The machine may be powered by either air, requiring continuous 90 psig @ 105 CFM, via a well proven Vane type Air motor, Fly wheel and a 2:1 Reduction Gearing, or Hydraulically via Diesel Hydraulic Power Unit.

ENR E312 Tapping Machines is capable of operating up to 1480 psig, so allowing safe operations on lines up to full ANSI 600 Operating Pressures.

In either the Air Drive, or Hydraulic Drive option, the Machine is operated via a single motor and in the case of the Hydraulic Drive Option, the Power unit is identical to the unit required to operate the E206 Tapping Machine.

SPECIFICATIONS

Boring Bar Travel		42 inches
Tapping Size Range		3” thru 12”
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Air/Hydraulic
Auto Feed Rate		0.003” or 0.005/Rev.
Manual Lower in Rate		4.5 TPI

NOTE

STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
E312-00	MODEL E312 TAPPING MACHINE 42 INCH TRAVEL BASE MACHINE ONLY	410	186	65

NOTE

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-TS	TRANSPORTATION SKID	180	82
E312-MR	MEASURING ROD	9	4
E312-BV	BLEEDER VALVE	<1	<1
E312-VN	VALVE NIPPLE	<1	<1
E312-IPW	INNER PACKING WRENCH	<1	<1
E312-OPW	OUTER PACKING WRENCH	2	1
E312-ISP	INNER STANDARD PACKING INSTALLED	<1	<1
E312-OSP	OUTER STANDARD PACKING INSTALLED	<1	<1
E312-OM	OPERATIONS MANUAL	-	-
E312-RG	4"600RTJ RING GASKET	1	0.5

POWER OPTIONS

**THE MODEL E312 TAPPING MACHINE IS SUPPLIED WITH EITHER AIR OR
HYDRAULIC POWER OPTIONS.**

**IN CHOOSING THE HYDRAULIC OPTION YOU SHOULD BE AWARE THAT
THE MACHINE REQUIRES A DEDICATED HYDRAULIC POWER UNIT AS
DEFINED BELOW.**

C) AIR OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-AM	AIR MOTOR	26	12
E312-RD	2:1 REDUCTION GEAR ASSEMBLY	15	7
E312-VU	VITALIZER UNIT	8	4.5
E312-FW	FLY WHEEL	15	7

D) HYDRAULIC OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-HM	HYDRAULIC MOTOR AND CONTROL SYSTEM	40	18
E312-HPU	DIESEL/HYDRAULIC POWER UNIT	700	318
E312-FW	FLY WHEEL	15	7

DIESEL HYDRAULIC POWER UNIT

SPECIFICATIONS

Diesel Engine	20 HP Diesel Engine
Pump	Vane pump rated at 20 GPM
Tank	50 US Gallons
Pressure Relief Valve	Factory Preset at 1100 psig
Starting System	Electric 12V
Fluid Level and Temperature	Indicator on Tank
Mounting	Unit skid mounted
Hoses	50' Pressure and return Hoses included
Couplings	Parker quick release/positive shutoff or equivalent.

MODEL E312 TAPPING MACHINE ACCESSORIES

CUTTER HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-CH-0304	3"- 4" CUTTER HOLDER	2.5	1
E312-CH-0612	6" – 12" CUTTER HOLDER	8	3.75

LINESTOP PLUG HOLDER

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-PH-0412	4" – 12" PLUG HOLDER	3.5	2

HOT TAP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-HT	3" HOT TAP PILOT DRILL	0.5	0.2
PD-04-HT	4" HOT TAP PILOT DRILL	0.5	0.2
PD-06-HT	6" HOT TAP PILOT DRILL	2	0.9
PD-08-HT	8" HOT TAP PILOT DRILL	2	0.9
PD-10-HT	10" HOT TAP PILOT DRILL	2	0.9
PD-12-HT	12" HOT TAP PILOT DRILL	4	1.8

HOT TAP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
HTC-03-HSS	3" HOT TAP CUTTER	2.438	1	0.4
HTC-04-HSS	4" HOT TAP CUTTER	3.438	2	0.9
HTC-06-HSS	6" HOT TAP CUTTER	5.469	6	2.8
HTC-08-HSS	8" HOT TAP CUTTER	7.312	15	8
HTC-10-HSS	10" HOT TAP CUTTER	9.50	23	10
HTC-12-HSS	12" HOT TAP CUTTER	11.50	36	16

LINE STOP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-LS	3" LINE STOP PILOT DRILL	0.5	0.2
PD-04-LS	4" LINE STOP PILOT DRILL	0.5	0.2
PD-06-LS	6" LINE STOPPILOT DRILL	2	0.9
PD-08-LS	8" LINE STOP PILOT DRILL	2	0.9
PD-10-LS	10"LINE STOP PILOT DRILL	2	0.9
PD-12-LS	12" LINE STOP PILOT DRILL	4	1.8

LINE STOP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
LSC-03-HSS	3" LINE STOP CUTTER	2.875	1.7	0.8
LSC-04-HSS	4" LINE STOP CUTTER	3.937	2	0.9
LSC-06-HSS	6" LINE STOP CUTTER	5.937	6	2.8
LSC-08-HSS	8" LINE STOP CUTTER	7.875	16	7
LSC-10-HSS	10" LINE STOP CUTTER	9.875	28	12
LSC-12-HSS	12" LINE STOP CUTTER	11.812	41	18

E312 TAPPING MACHINE ADAPTERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-TA-0315	3"-150# RF TAPPING ADAPTER	54	24
E312-TA-0415	4"-150# RF TAPPING ADAPTER	57	26
E312-TA-0615	6"-150# RF TAPPING ADAPTER	70	32
E312-TA-0815	8"-150# RF TAPPING ADAPTER	85	39
E312-TA-1015	10"-150# RF TAPPING ADAPTER	115	42
E312-TA-1215	12"-150# RF TAPPING ADAPTER	170	77
E312-TA-0330	3"-300# RF TAPPING ADAPTER	55	24
E312-TA-0430	4"-300# RF TAPPING ADAPTER	65	29
E312-TA-0630	6"-300# RF TAPPING ADAPTER	95	43
E312-TA-0830	8"-300# RF TAPPING ADAPTER	100	45
E312-TA-1030	10"-300# RF TAPPING ADAPTER	155	70
E312-TA-1230	12"-300# RF TAPPING ADAPTER	215	98
E312-TA-0360	3"-600# RF TAPPING ADAPTER	57	26
E312-TA-0460	4"-600# RF TAPPING ADAPTER	80	36
E320-TA-0660	6"-600# RF TAPPING ADAPTER	145	65
E312-TA-0860	8"-600# RF TAPPING ADAPTER	150	68
E312-TA-1060	10"-600# RF TAPPING ADAPTER	200	91
E312-TA-1260	12"-600# RF TAPPING ADAPTER	315	143

**E312 TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH RTJ
FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX
"RTJ"**

NOTE

**TAPPING MACHINE ADAPTERS SUITABLE FOR THE MODEL E312
TAPPING MACHINE, ARE ALSO SUITABLE FOR USE WITH THE MODEL
E316 AND E320 MACHINES AS THE MOUNTING FLANGE ON ALL THREE
MACHINES IS COMMON AT 4 INCH ANSI 600 RTJ**

PART 1 - SECTION 5

MODEL E316 TAPPING MACHINE

The model E316 Tapping Machine is the intermediate size of the “300 series” machine. Providing a tapping size range of 3 inches thru 16 inches; with a boring bar travel of 66 inches.

The machine is hydraulically powered via Diesel Hydraulic Power Unit or Air Motor with Fly Wheel.

ENR E316 Tapping Machine is capable of operating up to 1480 psig, so allowing safe operations on lines up to full ANSI 600 Operating Pressures.

SPECIFICATIONS

Boring Bar Travel		66 inches
Tapping Size Range		3” thru 16”
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Hydraulic/Air
Auto Feed Rate		0.003” or 0.005/Rev.
Manual Lower in Rate		4.5 TPI

NOTE

STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 740 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG	LENGTH INCHES
E316-00	MODEL E316 TAPPING MACHINE 66 INCHES TRAVEL BASE MACHINE ONLY	520	237	89

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E316-TS	TRANSPORTATION SKID	180	82
E316-MR	MEASURING ROD	9	4
E312-BV	BLEEDER VALVE	<1	<1
E312-VN	VALVE NIPPLE	<1	<1
E312-IPW	INNER PACKING WRENCH	<1	<1
E312-OPW	OUTER PACKING WRENCH	2	1
E312-ISP	INNER STANDARD PACKING INSTALLED	<1	<1
E312-OSP	OUTER STANDARD PACKING INSTALLED	<1	<1
E312-OM	OPERATIONS MANUAL	-	-
E312-RG	4"600RTJ RING GASKET	1	0.5

POWER OPTIONS

THE MODEL E316 TAPPING MACHINE IS SUPPLIED WITH HYDRAULIC POWER OPTION OR AIR MOTOR WITH FLY WHEEL.

YOU SHOULD BE AWARE THAT THE MACHINE REQUIRES A DEDICATED HYDRAULIC POWER UNIT AS DEFINED BELOW.

E) HYDRAULIC OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E316-HM1	ONE HYDRAULIC MOTOR WITH FLY WHEEL E316-FW AND CONTROL SYSTEM	100	46
E316-HM2	TWO HYDRAULIC MOTOR AND CONTROL SYSTEM	120	54
E316-HPU-D	DIESEL/HYDRAULIC POWER UNIT	840	382

F) AIR OPTION

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E316-AM	AIR MOTOR	26	12
E316-RD	2:1 REDUCTION GEAR ASSEMBLY	15	7
E316-VU	VITALIZER UNIT	8	4.5
E316-FW	FLY WHEEL	15	7

DIESEL HYDRAULIC POWER UNIT

SPECIFICATIONS

Diesel Engine	20 HP Diesel Engine
Pump	Vane pump rated at 20 GPM
Tank	50 US Gallons
Pressure Relief Valve	Factory Preset at 1000 psig
Starting System	Electric 12V
Fluid Level and Temperature	Indicator on Tank
Mounting	Unit skid mounted
Hoses	50' Pressure and return Hoses included
Couplings	Parker quick release/positive shutoff or equivalent.

MODEL E316 TAPPING MACHINE ACCESSORIES

CUTTER HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-CH-0304	3"- 4" CUTTER HOLDER	.5	1
E312-CH-0612	6" – 12" CUTTER HOLDER	8	3.75
E320-CH-1420	14" – 20" CUTTER HOLDER	7	3.25

LINESTOP PLUG HOLDER

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-PH-0412	4" – 12" PLUG HOLDER	3.2	1.5
E320-PH-1420	14"- 20" PLUG HOLDER	3.6	1.8

HOT TAP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-HT	3" HOT TAP PILOT DRILL	0.5	0.2
PD-04-HT	4" HOT TAP PILOT DRILL	0.5	0.2
PD-06-HT	6" HOT TAP PILOT DRILL	2	0.9
PD-08-HT	8" HOT TAP PILOT DRILL	2	0.9
PD-10-HT	10" HOT TAP PILOT DRILL	2	0.9
PD-12-HT	12" HOT TAP PILOT DRILL	4	1.8
PD-14-HT	14" HOT TAP PILOT DRILL	6	3
PD-16-HT	16" HOT TAP PILOT DRILL	7	3.2

LINESTOP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-004-LS	4" LINESTOP PILOT DRILL	0.5	0.2
PD-006-LS	6" LINESTOP PILOT DRILL	2	0.9
PD-008-LS	8" LINESTOP PILOT DRILL	2	0.9
PD-010-LS	10" LINESTOP PILOT DRILL	2	0.9
PD-012-LS	12" LINESTOP PILOT DRILL	4	1.8
PD-014-LS	14" LINESTOP PILOT DRILL	6	3
PD-016-LS	16" LINESTOP PILOT DRILL	7	3.2

HOT TAP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
HTC-03-HSS	3" HOT TAP CUTTER	2.438	1	0.4
HTC-04-HSS	4" HOT TAP CUTTER	3.438	2	0.9
HTC-06-HSS	6" HOT TAP CUTTER	5.469	6	2.8
HTC-08-HSS	8" HOT TAP CUTTER	7.312	15	8
HTC-10-HSS	10" HOT TAP CUTTER	9.50	23	10
HTC-12-HSS	12" HOT TAP CUTTER	11.50	36	16
HTC-14-HSS	14" HOT TAP CUTTER	12.75	42	19
HTC-16-HSS	16" HOT TAP CUTTER	14.625	62	29

LINESTOP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
LSC-03-HSS	3" LINESTOP CUTTER	2.875	2	0.9
LSC-04-HSS	4" LINESTOP CUTTER	3.937	2	0.9
LSC-06-HSS	6" LINESTOP CUTTER	5.937	6	2.8
LSC-08-HSS	8" LINESTOP CUTTER	7.875	16	7
LSC-10-HSS	10" LINESTOP CUTTER	9.875	28	12
LSC-12-HSS	12" LINESTOP CUTTER	11.812	41	18
LSC-14-HSS	14" LINESTOP CUTTER	13.063	50	22.5
LSC-16-HSS	16" LINESTOP CUTTER	15.063	65	30

NOTE

HIGH SPEED STEEL TIPS ARE STANDARD ON ALL CUTTERS UNLESS OTHERWISE SPECIFIED.

THE GRADE OF HIGH SPEED STEEL USED ALLOWS FOR SIGNIFICANTLY HIGHER HARDNESS FACTORS (ROCKWELL 67 – 68) WITHOUT A CORRESPONDING LOSS OF DUCTILITY AND RESISTANCE TO FRACTURE.

ALL CUTTERS IN THE RANGE, OTHER THAN HOLE SAWS AND TWIST DRILLS ARE AVAILABLE TIPPED TUNGSTEN CARBIDE FOR USE ON CAST AND DUCTILE IRON

PLEASE CONSULT FACTORY FOR OPTIONS AND APPLICATIONS.

SPECIAL CUTTER SIZES ARE AVAILABLE UPON REQUEST

TAPPING MACHINE ADAPTERS

TAPPING MACHINE ADAPTERS APPLICABLE TO THE MODEL E312 TAPPING MACHINE IN SIZES 3 INCH THRU 12 INCH, IN RATINGS ANSI 150, 300 AND 600, ARE APPLICABLE TO THE MODEL E316 AND E320 TAPPING MACHINES

ADDITIONAL TAPPING ADAPTERS APPLICABLE TO THE E316 ARE INDICATED BELOW.

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA-1415-E316	14"- 150# RF ADAPTER	190	87
TA-1615-E316	16"- 150# RF ADAPTER	300	136
TA-1430-E316	14"- 300# RF ADAPTER	228	103
TA-1630-E316	16"- 300# RF ADAPTER	350	160
TA-1460-E316	14"- 600# RF ADAPTER	360	164
TA-1660-E316	16"- 600# RF ADAPTER	460	210

NOTE

TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH RTJ FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX "RJ"

PART 1 - SECTION 6

MODEL E320 TAPPING MACHINE

The model E320 Tapping Machine is the most powerful of the “300 series” machines, providing a tapping Size Range of 3 inch thru 20 inches, with a Boring Bar Travel of 66 inches.

The machine is Hydraulically powered, via Diesel Hydraulic Power Unit.

ENR E320 Tapping Machines is capable of operating up to 1480 psig, so allowing safe operations on lines up to full ANSI 600 Operating Pressures

SPECIFICATIONS

Boring Bar Travel		66 inches
Tapping Size Range		3” thru 20”
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Hydraulic
Auto Feed Rate		0.003” or 0.005/Rev.
Manual Lower in Rate		4.5 TPI

NOTE

STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT K.G	LENGTH INCHES
E320	MODEL E320 TAPPING MACHINE 66 INCHES TRAVEL BASE MACHINE ONLY	650	294	89

NOTE

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E320-TS	TRANSPORTATION SKID	180	82
E320-MR	MEASURING ROD	9	4
E312-BV	BLEEDER VALVE	<1	<1
E312-VN	VALVE NIPPLE	<1	<1
E312-IPW	INNER PACKING WRENCH	<1	<1
E312-OPW	OUTER PACKING WRENCH	2	1
E312-ISP	INNER STANDARD PACKING INSTALLED	<1	<1
E312-OSP	OUTER STANDARD PACKING INSTALLED	<1	<1
E320-OM	OPERATIONS MANUAL	-	-
E312-RG	4"-600# RTJ RING GASKET	1	0.5

POWER OPTIONS

THE MODEL E320 TAPPING MACHINE IS SUPPLIED WITH ONLY A HYDRAULIC POWER OPTION.

YOU SHOULD BE AWARE THAT THE MACHINE REQUIRES A DEDICATED HYDRAULIC POWER UNIT AS DEFINED BELOW.

HYDRAULIC ONLY

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E320-HM	HYDRAULIC MOTOR AND CONTROL SYSTEM	100	46
E320-HPU-D	DIESEL/HYDRAULIC POWER UNIT	1700	772

DIESEL HYDRAULIC POWER UNIT

SPECIFICATIONS

Diesel Engine

Pump

Tank

Pressure Relief Valve

Starting System

Fluid Level and Temperature

Mounting

Hoses

Couplings

30 HP Diesel Engine

Vane pump rated at 25 GPM at 1000 psig.

60 US Gallons

Factory Preset at 1100 psig

Electric 12V

Indicator on Tank

Unit skid mounted

50' Pressure and return Hoses included

Aeroquip quick release/positive shutoff or equivalent.

MODEL E320 TAPPING MACHINE ACCESSORIES

CUTTER HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-CH-1	3" AND 4" CUTTER HOLDER	2.5	1
E312-CH-2	6" – 12" CUTTER HOLDER	8	3.75
E320-CH-3	14" – 20" CUTTER HOLDER	7	3.25

LINESTOP PLUG HOLDER

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E312-PH-0412	4" – 12" PLUG HOLDER	3.5	2
E320-PH-1420	14"- 20" PLUG HOLDER	3.5	2

HOT TAP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-03-HT	3" HOT TAP PILOT DRILL	0.5	0.2
PD-04-HT	4" HOT TAP PILOT DRILL	0.5	0.2
PD-06-HT	6" HOT TAP PILOT DRILL	2	0.9
PD-08-HT	8" HOT TAP PILOT DRILL	2	0.9
PD-10-HT	10" HOT TAP PILOT DRILL	2	0.9
PD-12-HT	12" HOT TAP PILOT DRILL	4	1.8
PD-14-HT	14" HOT TAP PILOT DRILL	6	3
PD-16-HT	16" HOT TAP PILOT DRILL	7	3.5
PD-18-HT	18" HOT TAP PILOT DRILL	7	3.5
PD-20-HT	20" HOT TAP PILOT DRILL	8	3.75

LINESTOP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-04-LS	4" LINESTOP PILOT DRILL	0.5	0.2
PD-06-LS	6" LINESTOP PILOT DRILL	2	0.9
PD-08-LS	8" LINESTOP PILOT DRILL	2	0.9
PD-10-LS	10" LINESTOP PILOT DRILL	2	0.9
PD-12-LS	12" LINESTOP PILOT DRILL	4	1.8
PD-14-LS	14" LINESTOP PILOT DRILL	6	3
PD-16-LS	16" LINESTOP PILOT DRILL	7	3.5
PD-18-LS	18" LINESTOP PILOT DRILL	7	3.5
PD-20-LS	20" LINESTOP PILOT DRILL	8	3.75

HOT TAP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG
HTC-03-HSS	3" HOT TAP CUTTER	2.438	1	0.4
HTC-04-HSS	4" HOT TAP CUTTER	3.438	2	0.9
HTC-06-HSS	6" HOT TAP CUTTER	5.469	6	2.8
HTC-08-HSS	8" HOT TAP CUTTER	7.312	15	8
HTC-10-HSS	10" HOT TAP CUTTER	9.50	23	10
HTC-12-HSS	12" HOT TAP CUTTER	11.50	36	16
HTC-14-HSS	14" HOT TAP CUTTER	12.75	42	19
HTC-16-HSS	16" HOT TAP CUTTER	14.625	62	29
HTC-18-HSS	18" HOT TAP CUTTER	15.063	65	30
HTC-20-HSS	20" HOT TAP CUTTER	17.00	84	38

LINESTOP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
LSC-04-HSS	4" LINESTOP CUTTER	3.937	2	0.9
LSC-06-HSS	6" LINESTOP CUTTER	5.937	6	2.8
LSC-08-HSS	8" LINESTOP CUTTER	7.875	16	7
LSC-10-HSS	10" LINESTOP CUTTER	9.875	28	12
LSC-12-HSS	12" LINESTOP CUTTER	11.812	41	18
LSC-14-HSS	14" LINESTOP CUTTER	13.063	50	22.5
LSC-16-HSS	16" LINESTOP CUTTER	15.063	65	30
LSC-18-HSS	18" LINESTOP CUTTER	17.00	84	38
LSC-20-HSS	20" LINESTOP CUTTER	19.00	98	45

NOTE

HIGH SPEED STEEL TIPS ARE STANDARD ON ALL CUTTERS UNLESS OTHERWISE SPECIFIED.

THE GRADE OF HIGH SPEED STEEL USED ALLOWS FOR SIGNIFICANTLY HIGHER HARDNESS FACTORS (ROCKWELL 67 – 68 Rc WITHOUT A CORRESPONDING LOSS OF DUCTILITY AND RESISTANCE TO FRACTURE.)

ALL CUTTERS IN THE RANGE, OTHER THAN HOLE SAWS AND TWIST DRILLS ARE AVAILABLE TIPPED TUNGSTEN CARBIDE FOR USE ON CAST AND DUCTILE IRON

PLEASE CONSULT FACTORY FOR OPTIONS AND APPLICATIONS.

SPECIAL CUTTER SIZES ARE AVAILABLE UPON REQUEST

TAPPING ADAPTERS

TAPPING MACHINE ADAPTERS APPLICABLE TO THE MODEL E312 TAPPING MACHINE IN SIZES 3 INCH THRU' 12 INCHES, IN RATINGS ANSI 150, 300 AND 600, ARE APPLICABLE TO THE MODEL E316 AND E320 TAPPING MACHINES

ADDITIONAL ADAPTERS APPLICABLE TO THE E320 ARE INDICATED BELOW.

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA--1815-E320	18"-150# RF TAPPING ADAPTER	330	150
TA-2015-E320	20"-150# RF TAPPING ADAPTER	425	193
TA-1830-E320	18"-300# RF TAPPING ADAPTER	365	166
TA-2030-E320	20"-300# RF TAPPING ADAPTER	465	211
TA-1860-E320	18"-600# RF TAPPING ADAPTER	560	254
TA-2060-E320	20"-600# RF TAPPING ADAPTER	730	331

NOTE

STANDARD TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH RTJ FLANGE. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX "RTJ"

PART 1 - SECTION 7

MODEL EQB-E320 HIGH PRESSURE EQUAL BALANCE TAPPING MACHINE

The model EQB-E320 Tapping Machine is the new and of the “300 Series” machines, providing a tapping Size Range of 3 inch thru 20 inches, with a Boring Bar Travel of 66 inches.

**EQB-E320 Tapping Machine has 4"-900# RTJ mounting flange
600# RTJ front flange is also available.**

The machine is hydraulically powered, via Diesel Hydraulic Power Unit. ENR EQB-E320 Tapping Machine is capable of operating up to 2220 psig, so allowing safe operations on lines up to full ANSI 900 Operating Pressures

The Machine is operated via dual Hi-Power Hydraulic Motors, providing Speed Control Features at the machine, for ease of use.

SPECIFICATIONS

Boring Bar Travel	66 inches
Tapping Size Range	3” thru 20”
MAOP	2200 psig @ 100° F
Max. Standard Operating Temperature	200° F
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY	
Power Options	Hydraulic
Auto Feed Rate	0.003” or 0.005/Rev.
Manual Lower in Rate	4.5 TPI

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT K.G	LENGTH INCHES
EQB-E320	MODEL EQB-E320 TAPPING MACHINE 66 INCHES TRAVEL	680	309	82

**TAPPING MACHINE ACCESSORIES APPLICABLE TO THE MODEL E320
ARE APPLICABLE TO THE MODEL EQB-E320 EXCEPT TAPPING
ADAPTERS**

EQB-E320 TAPPING MACHINE ADAPTERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
EQB-E320-TA-0390	3"-900# RF TAPPING ADAPTER	68	31
EQB-E320-TA-0490	4"-900# RF TAPPING ADAPTER	94	43
EQB-E320-TA-0690	6"-900# RF TAPPING ADAPTER	175	80
EQB-E320-TA-0890	8"-900# RF TAPPING ADAPTER	198	90
EQB-E320-TA-1090	10"-900# RF TAPPING ADAPTER	240	110
EQB-E320-TA-1290	12"-900# RF TAPPING ADAPTER	355	161
EQB-E320-TA-1490	14"-900# RF TAPPING ADAPTER	435	198
EQB-E320-TA-1690	16"-900# RF TAPPING ADAPTER	540	245
EQB-E320-TA-1890	18"-900# RF TAPPING ADAPTER	650	295
EQB-E320-TA-2090	20"-900# RF TAPPING ADAPTER	860	390

NOTE

**STANDARD TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH
RTJ FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX
"RTJ"**

PART 1 - SECTION 8
MODEL E1448 TAPPING MACHINE

The Model E1448 Tapping Machine providing a tapping Size Range of 14 inches thru' 48 inches, with a Boring Bar Travel of 80, 110 and 120 inches

The machine is hydraulically powered, via Diesel Hydraulic Power Unit.

ENR E1448 Tapping Machines is capable of operating up to 1480 psig, so allowing safe operations on lines up to full ANSI 600 Operating Pressures

The Machine is operated via Tandem Hydraulic Motor with two speed operation on constant flow input, providing Speed Control Features for Cutter Rotation, while a separate Hydraulic Motor provides Power Extension and Retraction of the Boring Bar.

SPECIFICATIONS

Boring Bar Travel		80, 110, 120 inches
Tapping Size Range		14" thru 48"
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Hydraulic
Auto Feed Rate		0.004"/Rev.

NOTE
STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
E1448-80	MODEL E1448 TAPPING MACHINE 80 INCHES TRAVEL	2115	960	120
E1448-110	MODEL E1448 TAPPING MACHINE 110 INCHES TRAVEL	2515	1141	150
E1448-120	MODEL E1448 TAPPING MACHINE 120 INCHES TRAVEL	2815	1277	160

NOTE

THE BASIC MACHINE INCLUDES THE FOLLOWING ITEMS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E1448-TS	TRANSPORTATION SKID	400	180
E1448-MR	MEASURING ROD	17	7.75
E1448-BV	BLEEDER VALVE	<1	<1
E1448-VN	VALVE NIPPLE	<1	<1
E1448-IPW	INNER PACKING WRENCH	1	0.5
E1448-OPW	OUTER PACKING WRENCH	4	1.8
E1448-ISP	INNER STANDARD PACKING INSTALLED	<1	<1
E1448-OSP	OUTER STANDARD PACKING INSTALLED	1	0.4
E1448-OM	OPERATIONS MANUAL	-	-
E1448-RG	6"600RTJ RING GASKET	2	0.9

POWER OPTIONS

**THE MODEL E1448 TAPPING MACHINE IS SUPPLIED WITH ONLY A
HYDRAULIC POWER OPTION.**

HYDRAULIC ONLY

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E1448-HPU	HYDRAULIC POWER UNIT	1200	545

DIESEL HYDRAULIC POWER UNIT

SPECIFICATIONS

**Diesel Engine
Pump**

**30-36 HP Diesel Engine
Vane pump rated at 30-40 GPM at 1000
psig.**

**Tank
Pressure Relief Valve
Starting System**

**60 US Gallons
Factory Preset at 1100 psig
Electric 12V**

**Fluid Level and Temperature
Mounting**

**Indicator on Tank
Unit skid mounted**

**Hoses
Couplings**

**50' Pressure and return Hoses included
Aeroquip quick release/positive shutoff or
equivalent.**

MODEL E1448 TAPPING MACHINE ACCESSORIES

CUTTER HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
E1448-CH-1	14" – 30" CUTTER HOLDER	17.5	8
E1448-CH-2	32" – 48" CUTTER HOLDER	21	9.5

LINESTOP PLUG HOLDERS

PART NUMBER	DESCRIPTION	WEIGHT LB.	PART NUMBER
E1448-PH-1	14"-30" PLUG HOLDER	14	6.4
E1448-PH-2	32"-48" PLUG HOLDER	18	8.2

MODEL E1448 HOT TAP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-14-HT	14" HOT TAP PILOT DRILL	5	2
PD-16-HT	16" HOT TAP PILOT DRILL	6	3
PD-18-HT	18" HOT TAP PILOT DRILL	6	3
PD-20-HT	20" HOT TAP PILOT DRILL	7	3.5
PD-22-HT	22" HOT TAP PILOT DRILL	8	3.75
PD-24-HT	24" HOT TAP PILOT DRILL	8	3.75
PD-26-HT	26" HOT TAP PILOT DRILL	9	4
PD-28-HT	28" HOT TAP PILOT DRILL	11	5
PD-30-HT	30" HOT TAP PILOT DRILL	11	5
PD-32-HT	32" HOT TAP PILOT DRILL	15	7
PD-34-HT	34" HOT TAP PILOT DRILL	15	7
PD-36-HT	36" HOT TAP PILOT DRILL	18	8.2
PD-38-HT	38" HOT TAP PILOT DRILL	20	9
PD-40-HT	40" HOT TAP PILOT DRILL	25	11.5
PD-42-HT	42" HOT TAP PILOT DRILL	27	12.5
PD-44-HT	44" HOT TAP PILOT DRILL	33	15
PD-46-HT	46" HOT TAP PILOT DRILL	39	18
PD-48-HT	48" HOT TAP PILOT DRILL	48	23

MODEL E1448 LINE STOP PILOT DRILLS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PD-14-LS	14" LINESSTOP PILOT DRILL	5	2
PD-16-LS	16" LINESSTOP PILOT DRILL	6	3
PD-18-LS	18" LINESSTOP PILOT DRILL	6	3
PD-20-LS	20" LINESSTOP PILOT DRILL	7	3.5
PD-22-LS	22" LINESSTOP PILOT DRILL	8	3.75
PD-24-LS	24" LINESSTOP PILOT DRILL	8	3.75
PD-26-LS	26" LINESSTOP PILOT DRILL	9	4
PD-28-LS	28" LINESSTOP PILOT DRILL	11	5
PD-30-LS	30" LINESSTOP PILOT DRILL	11	5
PD-32-LS	32" LINESSTOP PILOT DRILL	15	7
PD-34-LS	34" LINESSTOP PILOT DRILL	15	7
PD-36-LS	36" LINESSTOP PILOT DRILL	18	8.2
PD-38-LS	38" LINESSTOP PILOT DRILL	20	9
PD-40-LS	40" LINESSTOP PILOT DRILL	25	11.5
PD-42-LS	42" LINESSTOP PILOT DRILL	27	12.5
PD-44-LS	44" LINESSTOP PILOT DRILL	33	15
PD-46-LS	46" LINESSTOP PILOT DRILL	39	18
PD-48-LS	48" LINESSTOP PILOT DRILL	48	23

MODEL E1448 HOT TAP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
HTC-14-HSS	14" HOT TAP CUTTER	12.75	42	19
HTC-16-HSS	16" HOT TAP CUTTER	14.687	62	29
HTC-18-HSS	18" HOT TAP CUTTER	15.063	65	30
HTC-20-HSS	20" HOT TAP CUTTER	17.00	84	38
HTC-22-HSS	22" HOT TAP CUTTER	19.00	98	45
HTC-24-HSS	24" HOT TAP CUTTER	21.00	125	57
HTC-26-HSS	26" HOT TAP CUTTER	23.00	126	57
HTC-28-HSS	28" HOT TAP CUTTER	25.00	156	71
HTC-30-HSS	30" HOT TAP CUTTER	27.00	232	105
HTC-32-HSS	32" HOT TAP CUTTER	29.00	275	125
HTC-34-HSS	34" HOT TAP CUTTER	31.00	330	150
HTC-36-HSS	36" HOT TAP CUTTER	33.00	395	179
HTC-38-HSS	38" HOT TAP CUTTER	35.00	430	195
HTC-40-HSS	40" HOT TAP CUTTER	37.00	475	216
HTC-42-HSS	42" HOT TAP CUTTER	38.875	510	232
HTC-44-HSS	44" HOT TAP CUTTER	40.875	560	255
HTC-46-HSS	46" HOT TAP CUTTER	42.875	625	284
HTC-48-HSS	48" HOT TAP CUTTER	44.875	715	325

MODEL E1448 LINSTOP CUTTERS

PART NUMBER	DESCRIPTION	ACTUAL O.D. INCHES	WEIGHT LB.	WEIGHT KG.
LSC-14-HSS	14" LINSTOP CUTTER	13.062	49	22
LSC-16-HSS	16" LINSTOP CUTTER	14.687	64	30
LSC-18-HSS	18" LINSTOP CUTTER	17.00	84	38
LSC-20-HSS	20" LINSTOP CUTTER	19.00	98	45
LSC-22-HSS	22" LINSTOP CUTTER	21.00	25	57
LSC-24-HSS	24" LINSTOP CUTTER	23.00	126	57
LSC-26-HSS	26" LINSTOP CUTTER	25.00	156	71
LSC-28-HSS	28" LINSTOP CUTTER	27.00	232	105
LSC-30-HSS	30" LINSTOP CUTTER	29.00	275	125
LSC-32-HSS	32" LINSTOP CUTTER	31.00	330	150
LSC-34-HSS	34" LINSTOP CUTTER	33.00	395	179
LSC-36-HSS	36" LINSTOP CUTTER	35.00	430	195
LSC-38-HSS	38" LINSTOP CUTTER	37.00	475	216
LSC-40-HSS	40" LINSTOP CUTTER	38.875	510	232
LSC-42-HSS	42" LINSTOP CUTTER	40.875	560	255
LSC-44-HSS	44" LINSTOP CUTTER	43.00	625	284
LSC-46-HSS	46" LINSTOP CUTTER	45.00	715	325
LSC-48-HSS	48" LINSTOP CUTTER	47.00	565	257

NOTE

HIGH SPEED STEEL TIPS ARE STANDARD ON ALL CUTTERS UNLESS OTHERWISE SPECIFIED.

THE GRADE OF HIGH SPEED STEEL USED ALLOWS FOR SIGNIFICANTLY HIGHER HARDNESS FACTORS (ROCKWELL 67 – 68) WITHOUT A CORRESPONDING LOSS OF DUCTILITY AND RESISTANCE TO FRACTURE.

ALL CUTTERS IN THE RANGE, OTHER THAN HOLE SAWS AND TWIST DRILLS ARE AVAILABLE TIPPED TUNGSTEN CARBIDE FOR USE ON CAST AND DUCTILE IRON

PLEASE CONSULT FACTORY FOR OPTIONS AND APPLICATIONS.

SPECIAL CUTTER SIZES ARE AVAILABLE UPON REQUEST

MODEL E1448 TAPPING MACHINE ADAPTERS
ANSI 150#

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA-1415-E1448	14"- 150# RF TAPPING ADAPTER	240	109
TA-1615-E1448	16"- 150# RF TAPPING ADAPTER	280	127
TA-1815-E1448	18"- 150# RF TAPPING ADAPTER	329	149
TA-2015-E1448	20"- 150# RF TAPPING ADAPTER	425	193
TA-2215-E1448	22"- 150# RF TAPPING ADAPTER	516	234
TA-2415-E1448	24"- 150# RF TAPPING ADAPTER	612	278
TA-2615-E1448	26"- 150# RF TAPPING ADAPTER	633	287
TA-2815-E1448	28"- 150# RF TAPPING ADAPTER	700	318
TA-3015-E1448	30"- 150# RF TAPPING ADAPTER	791	359
TA-3215-E1448	32"- 150# RF TAPPING ADAPTER	990	449
TA-3415-E1448	34"- 150# RF TAPPING ADAPTER	1248	567
TA-3615-E1448	36"- 150# RF TAPPING ADAPTER	1650	748
TA-3815-E1448	38"- 150# RF TAPPING ADAPTER	2010	914
TA-4015-E1448	40"- 150# RF TAPPING ADAPTER	2465	1120
TA-4215-E1448	42"- 150# RF TAPPING ADAPTER	2915	1323
TA-4415-E1448	44"- 150# RF TAPPING ADAPTER	3250	1474
TA-4615-E1448	46"- 150# RF TAPPING ADAPTER	3500	1588
TA-4815-E1448	48"- 150# RF TAPPING ADAPTER	3950	1791

MODEL E1448 TAPPING MACHINE ADAPTERS
ANSI 300#

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA-1430-E1448	14"- 300# RF TAPPING ADAPTER	282	128
TA-1630-E1448	16"- 300# RF TAPPING ADAPTER	315	143
TA-1830-E1448	18"- 300# RF TAPPING ADAPTER	363	165
TA-2030-E1448	20"- 300# RF TAPPING ADAPTER	465	211
TA-2230-E1448	22"- 300# RF TAPPING ADAPTER	567	257
TA-2430-E1448	24"- 300# RF TAPPING ADAPTER	786	357
TA-2630-E1448	26"- 300# RF TAPPING ADAPTER	920	417
TA-2830-E1448	28"- 300# RF TAPPING ADAPTER	1066	484
TA-3030-E1448	30"- 300# RF TAPPING ADAPTER	1375	624
TA-3230-E1448	32"- 300# RF TAPPING ADAPTER	1580	720
TA-3430-E1448	34"- 300# RF TAPPING ADAPTER	1912	869
TA-3630-E1448	36"- 300# RF TAPPING ADAPTER	2650	1200
TA-3830-E1448	38"- 300# RF TAPPING ADAPTER	2935	1334
TA-4030-E1448	40"- 300# RF TAPPING ADAPTER	3325	1512
TA-4230-E1448	42"- 300# RF TAPPING ADAPTER	3718	1690
TA-4430-E1448	44"- 300# RF TAPPING ADAPTER	4318	1959
TA-4630-E1448	46"- 300# RF TAPPING ADAPTER	4618	2095
TA-4830-E1448	48"- 300# RF TAPPING ADAPTER	4918	2231

MODEL E1448 TAPPING MACHINE ADAPTERS
ANSI 600

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA-1460-E1448	14"-600# RF TAPPING ADAPTER	354	161
TA-1660-E1448	16"-600# RF TAPPING ADAPTER	510	231
TA-1860-E1448	18"-600# RF TAPPING ADAPTER	560	254
TA-2060-E1448	20"-600# RF TAPPING ADAPTER	730	331
TA-2260-E1448	22"-600# RF TAPPING ADAPTER	925	420
TA-2460-E1448	24"-600# RF TAPPING ADAPTER	1125	510
TA-2660-E1448	26"-600# RF TAPPING ADAPTER	1380	627
TA-2860-E1448	28"-600# RF TAPPING ADAPTER	1530	694
TA-3060-E1448	30"-600# RF TAPPING ADAPTER	1875	851
TA-3260-E1448	32"-600# RF TAPPING ADAPTER	2036	924
TA-3460-E1448	34"-600# RF TAPPING ADAPTER	2537	1153
TA-3660-E1448	36"-600# RF TAPPING ADAPTER	2915	1325
TA-3860-E1448	38"-600# RF TAPPING ADAPTER	3482	1583
TA-4060-E1448	40"-600# RF TAPPING ADAPTER	3938	1790
TA-4260-E1448	42"-600# RF TAPPING ADAPTER	4464	2030
TA-4460-E1448	44"-600# RF TAPPING ADAPTER	4764	2161
TA-4660-E1448	46"-600# RF TAPPING ADAPTER	5001	2268
TA-4860-E1448	48"-600# RF TAPPING ADAPTER	5350	2428

NOTE

TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH 900# AND "RTJ" FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX "RJ"

PART 1 - SECTION 9
MODEL EQB-E1448 EQUAL BALANCE HIGH PRESSURE
TAPPING MACHINE

The Model EQB-E1448 Tapping Machine providing a tapping Size Range of 14 inches thru 48 inches, with a Boring Bar Travel of 80, 110 and 120 inches
EQB-E1448 Tapping Machine has 6"-900# RTJ mounting flange as standard. 600# RTJ front flange is also available

The machine is hydraulically powered, via Diesel Hydraulic Power Unit.

ENR EQB-E1448 Tapping Machines is capable of operating up to 2200 psig, so allowing safe operations on lines up to full ANSI 900 Operating Pressures

The Machine is operated via Tandem Hydraulic Motor with two speed operation on constant flow input, providing Speed Control Features for Cutter Rotation, while a separate Hydraulic Motor provides Power Extension and Retraction of the Boring Bar.

SPECIFICATIONS

Boring Bar Travel	80, 110, 120 inches
Tapping Size Range	14" thru 48"
MAOP	2220 psig @ 100° F
Max. Standard Operating Temperature	200° F
	FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY
Power Options	Hydraulic
Auto Feed Rate	0.004"/Rev.

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
EQB-E1448-80	MODEL EQB-E1448 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 80 INCHES TRAVEL	2415	1095	125
EQB-E1448-110	MODEL EQB-E1448 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 110 INCHES TRAVEL	2915	1,323	155
EQB-E1448-120	MODEL EQB-E1448 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 120 INCHES TRAVEL	3415	1550	165

MODEL EQB-E1448 TAPPING MACHINE ADAPTERS
ANSI 900

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
TA-1490-E1448	14"-900# RF TAPPING ADAPTER	394	179
TA-1690-E1448	16"-900# RF TAPPING ADAPTER	560	254
TA-1890-E1448	18"-900# RF TAPPING ADAPTER	630	286
TA-2090-E1448	20"-900# RF TAPPING ADAPTER	800	363
TA-2290-E1448	22"-900# RF TAPPING ADAPTER	1050	476
TA-2490-E1448	24"-900# RF TAPPING ADAPTER	1325	601
TA-2690-E1448	26"-900# RF TAPPING ADAPTER	1580	717
TA-2890-E1448	28"-900# RF TAPPING ADAPTER	1710	775
TA-3090-E1448	30"-900# RF TAPPING ADAPTER	2035	923
TA-3290-E1448	32"-900# RF TAPPING ADAPTER	2276	1032
TA-3490-E1448	34"-900# RF TAPPING ADAPTER	2737	1241
TA-3690-E1448	36"-900# RF TAPPING ADAPTER	3215	1459
TA-3890-E1448	38"-900# RF TAPPING ADAPTER	3782	1716
TA-4090-E1448	40"-900# RF TAPPING ADAPTER	4538	2058
TA-4290-E1448	42"-900# RF TAPPING ADAPTER	4994	2265
TA-4490-E1448	44"-900# RF TAPPING ADAPTER	5364	2433
TA-4690-E1448	46"-900# RF TAPPING ADAPTER	5771	2618
TA-4890-E1448	48"-900# RF TAPPING ADAPTER	6350	2880

NOTE

TAPPING MACHINE ADAPTERS ARE ALSO AVAILABLE WITH 900# "RTJ" FLANGES. IN SUCH CASES, THE PART NUMBER BEARS THE SUFFIX "RJ"

PART 1 - SECTION 10
MODEL E2460 TAPPING MACHINE

The Model E2460 Tapping Machine providing a tapping Size Range of 24 inches thru 60 inches with a Boring Bar Travel of 72, 120 and 140 inches

The machine is hydraulically powered, via Diesel Hydraulic Power Unit.

ENR E2460 Tapping Machines is capable of operating up to 1480 psig, so allowing safe operations on lines up to full ANSI 600 Operating Pressures

The Machine is operated via Hydraulic Motor providing Speed Control Features for Cutter Rotation, while a separate Hydraulic Motor provides Power Extension and Retraction of the Boring Bar.

SPECIFICATIONS

Boring Bar Travel		72, 120, 140 inches
Tapping Size Range		24" thru 60"
MAOP		1480 psig @ 100° F
Max. Operating Temperature	Standard Packing	280° F @ 700 psig
	Severe Packing	700° F @ 700 psig
Power Options		Hydraulic
Auto Feed Rate		0.004"/Rev.

NOTE
STANDARD PACKING IS RATED AT 1480 PSIG AT UP TO 100° F
SEVERE PACKING IS RATED AT 700 PSIG AT UP TO 700° F
WE RECOMMEND THAT FOR MOST NORMAL OPERATIONS, STANDARD PACKING BE USED. SEVERE SERVICE PACKING RELIES UPON HIGHER TEMPERATURES TO PROVIDE SEALING CAPABILITIES
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
E2448-72	MODEL E2460 TAPPING MACHINE 72 INCHES TRAVEL	2975	1350	120
E2460-120	MODEL E2460 TAPPING MACHINE 120 INCHES TRAVEL	3415	1550	160
E2460-140	MODEL E2460 TAPPING MACHINE 140 INCHES TRAVEL	3815	173.07	200

TAPPING MACHINE ACCESSORIES APPLICABLE TO THE MODEL E1448 ARE APPLICABLE TO THE MODEL E2460

PART 1 - SECTION 11
MODEL EQB-E2460 EQUAL BALANCE HIGH PRESSURE
TAPPING MACHINE

The Model EQB-E2460 Tapping Machine providing a tapping Size Range of 24 inches thru 60 inches, with a Boring Bar Travel of 72, 120 and 140 inches
EQB-E2460 Tapping Machine has 6"-900# RTJ mounting flange as standard.
600# RTJ front flange is also available

The machine is hydraulically powered, via Diesel Hydraulic Power Unit.

ENR EQB-E2460 Tapping Machines is capable of operating up to 2200 psig, so allowing safe operations on lines up to full ANSI 900 Operating Pressures

The Machine is operated via Hydraulic Motor with, providing Speed Control Features for Cutter Rotation, while a separate Hydraulic Motor provides Power Extension and Retraction of the Boring Bar.

SPECIFICATIONS

Boring Bar Travel	72, 120, 140 inches
Tapping Size Range	24" thru' 60"
MAOP	2220 psig @ 100° F
Max. Standard Operating Temperature	200° F
FOR HIGHER TEMPERATURE OPERATIONS PLEASE CONSULT THE FACTORY	
Power Options	Hydraulic
Auto Feed Rate	0.004"/Rev.

PART NUMBER	DESCRIPTION	UNIT WEIGHT LB.	UNIT WEIGHT KG.	LENGTH INCHES
EQB-E2460-72	MODEL EQB-E2460 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 72 INCHES TRAVEL	3315	1504	120
EQB-E2460-120	MODEL EQB-E2460 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 120 INCHES TRAVEL	3810	1728	160
EQB-E2460-140	MODEL EQB-E2460 EQUAL BALANCE HIGH PRESSURE TAPPING MACHINE 140 INCHES TRAVEL	4387	1990	200

TAPPING MACHINE ACCESSORIES APPLICABLE TO THE MODEL EQB-E1448 ARE APPLICABLE TO THE MODEL EQB-E2460



LINESTOP EQUIPMENT

PART TWO

LINESTOP EQUIPMENT

SECTION 1	SANDWICH VALVES
SECTION 2	LINESTOP ACTUATORS
SECTION 3	LINESTOP HOUSINGS
SECTION 4	LINESTOP PLUGGING HEADS
SECTION 5	LINESTOP SEALING ELEMENTS

PART 2 - SECTION 1

SANDWICH VALVES



ENR Sandwich Valves are designed exclusively for use with the Linestop Plugging System.

Sandwich Valves are available in ANSI 150#, ANSI 300#, ANSI 600# and 900# Ratings.

The Valves incorporate a number of design features that specifically assist the performance of Linestop operations.

- **Short Face to Face Dimensions**
- **Oversize Bore**
- **Integral Gate Bypass System**
- **Elastomer Seals on Gate**
- **Manual operation (sizes 4" thru 22")**
- **Hydraulic Operation via Tapping Machine Power Unit (sizes 24"+)**

Valves are supplied with Stud Protector Rings for transit.

SANDWICH VALVES, ANSI 150#

PART NUMBER	DESCRIPTION
SV-0415-00	4''-150# VALVE
SV-0615-00	6''-150# VALVE
SV-0815-00	8''-150# VALVE
SV-1015-00	10''-150# VALVE
SV-1215-00	12''-150# VALVE
SV-1415-00	14''-150# VALVE
SV-1615-00	16''-150# VALVE
SV-1815-00	18''-150# VALVE
SV-2015-00	20''-150# VALVE
SV-2215-00	22''-150# VALVE
SV-2415-00	24''-150# VALVE
SV-2815-00	28''-150# VALVE
SV-3015-00	30''-150# VALVE
SV-3215-00	32''-150# VALVE
SV-3415-00	34''-150# VALVE
SV-3615-00	36''-150# VALVE
SV-3815-00	38''-150# VALVE
SV-4015-00	40''-150# VALVE
SV-4215-00	42''-150# VALVE
SV-4815-00	48''-150# VALVE

**ANSI 150 SANDWICH TYPE TAPPING VALVES ARE SUPPLIED WITH A
FLAT FACE FINISH TO INTERFACE WITH RF FITTINGS.**

FACE FINISH 125 – 250 RMS

SIZES 4"-12"-150# AVAILABLE AS ALUMINUM LIGHT WEIGHT VALVES

SANDWICH VALVES, ANSI 300#

PART NUMBER	DESCRIPTION	WEIGHT LB	WEIGHT KG
SV-0430-00	4"-300# VALVE	153	69
SV-0630-00	6"-300# VALVE	260	118
SV-0830-00	8"-300# VALVE	415	188
SV-1030-00	10"-300# VALVE	750	340
SV-1230-00	12"-300# VALVE	1150	522
SV-1430-00	14"-300# VALVE	1600	726
SV-1630-00	16"-300# VALVE	1910	868
SV-1830-00	18"-300# VALVE	2320	1050
SV-2030-00	20"-300# VALVE	3200	1453
SV-2230-00	22"-300# VALVE	4800	2177
SV-2430-00	24"-300# VALVE	5300	2405
SV-2830-00	28"-300# VALVE	8640	3928
SV-3030-00	30"-300# VALVE	10000	4536
SV-3230-00	32"-300# VALVE	11700	5319
SV-3430-00	34"-300# VALVE	13850	6296
SV-3630-00	36"-300# VALVE	15500	7045
SV-3830-00	38"-300# VALVE	17100	7773
SV-4030-00	40"-300# VALVE	20800	9455
SV-4230-00	42"-300# VALVE	24900	11320
SV-4830-00	48"-300# VALVE	26900	12201

**ANSI 300 SANDWICH TYPE TAPPING VALVES ARE SUPPLIED WITH A
FLAT FACE FINISH TO INTERFACE WITH RF FITTINGS.**

FACE FINISH 125 – 250 RMS

SANDWICH VALVES, ANSI 600#

PART NUMBER	DESCRIPTION	WEIGHT LB	WEIGHT KG
SV-0460-00	4"-600# VALVE	177	80
SV-0660-00	6"-600# VALVE	450	204
SV-0860-00	8"-600# VALVE	575	261
SV-1060-00	10"-600# VALVE	950	431
SV-1260-00	12"-600# VALVE	1500	680
SV-1460-00	14"-600# VALVE	1900	862
SV-1660-00	16"-600# VALVE	3000	1361
SV-1860-00	18"-600# VALVE	3750	1700
SV-2060-00	20"-600# VALVE	4700	2132
SV-2260-00	22"-600# VALVE	6200	2812
SV-2460-00	24"-600# VALVE	7200	3273
SV-2860-00	28"-600# VALVE	1000	4536
SV-3060-00	30"-600# VALVE	11780	5343
SV-3260-00	32"-600# VALVE	13960	6346
SV-3460-00	34"-600# VALVE	15500	7032
SV-3660-00	36"-600# VALVE	23000	10434
SV-3860-00	38"-600# VALVE	25750	11705
SV-4060-00	40"-600# VALVE	27250	12387
SV-4260-00	42"-600# VALVE	29680	13491
SV-4860-00	48"-600# VALVE	32680	14823

**ANSI 600 SANDWICH VALVES ARE SUPPLIED WITH A FLAT FACE FINISH
TO INTERFACE WITH RF FITTINGS.
FACE FINISH 125 – 250 RMS**

**SHOULD THE REQUIRED BE FOR AN "RTJ" SYSTEM, THEN ANSI 600
VALVES CAN BE SUPPLIED WITH RTJ FLANGE FACINGS
CONSULT THE FACTORY FOR DETAILS**

**SANDWICH VALVES
MAXIMUM OPERATING PRESSURES**

ANSI CLASS	SIZE	MAXIMUM PRESSURE
150#	4" – 48"	285 PSIG
300#	4" - 48"	740 PSIG
600#	4" – 48"	1480 PSIG
900#	4" – 48"	2220 PSIG

PART 2 - SECTION 2

LINESTOP ACTUATORS



ENR Linestop Actuators are available in a range of sizes to suit corresponding size and rating plugging systems.

Manually operated actuators - Jackscrews are available for 500 PSI and 850 PSI.

500 PSI Jackscrews have a direct Drive with 1:1 ratio.

850 PSI Jackscrews have Gear box with a 3:1 Drive ratio, in order to overcome the Higher Pressures liable to be encountered during insertion and recovery of the Plugging system. Jackscrews actuators seals could be O-rings or Chevron packing.

Hydraulic Actuators are available for all size ranges 3" thru" 48".

These Actuators have correspondingly longer Control Bar Travel to allow insertion of the Plugging System through the larger Valves and Fitting Branches and higher pressure up to 1480 PSI.

JACKSCREW (MANUAL) ACTUATORS

PART NUMBER	DESCRIPTION	CONTROL BAR TRAVEL	MAOP	CONTROL BAR DIAMETER
JS-0312-500	3"- 12" JACKSCREW ACTUATOR	50", 60", 72"	500 PSI	2"
JS-0312-850	3" – 12" JACKSCREW ACTUATOR W/GEAR BOX	50", 60", 72"	850 PSI	2"
JS-1420-850	14" – 20" JACKSCREW ACTUATOR W/GEAR BOX	85", 103"	850 PSI	3.5"

HYDRAULIC ACTUATORS

PART NUMBER	DESCRIPTION	CONTROL BAR TRAVEL	MAOP	CONTROL BAR DIAMETER
LSA-0312-FX	3" – 12" HYDRAULIC ACTUATOR	72"	1480 PSI	2"
LSA-1420-FX	14" – 20" HYDRAULIC ACTUATOR	103"/140"	1480 PSI	3.5"
LSA-2234-FX	22" – 34" HYDRAULIC ACTUATOR	140"	1480 PSI	4"
LSA-3648-FX	36" – 48" HYDRAULIC ACTUATOR	140"	1480 PSI	5.5"

Hydraulic Actuators are supplied with Aeroquip style quick release connectors to the hydraulic system as standard. This style connector matches the connectors as supplied with the Hydraulic Power Units necessary to operate the Hydraulically powered Tapping Machines and Sandwich Valves.

We are able to modify the connector type to meet the customer's individual specification if required.

PLEASE CONSULT THE FACTORY REGARDING YOUR INDIVIDUAL REQUIREMENTS

Hydraulic Actuators are fitted with Control Bar clamps to minimize Hydraulic creep, due to thermal expansion.

PART 2 - SECTION 3

LINESTOP HOUSINGS ANSI 150

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.	HEIGHT IN.
LSH-0315-00	3"-150# LINESTOP HOUSING	24	11	13
LSH-0415-00	4"-150# LINESTOP HOUSING	32	15	14
LSH-0615-00	6"-150# LINESTOP HOUSING	56	25	17
LSH-0815-00	8"-150# LINESTOP HOUSING	92	42	19
LSH-1015-00	10"-150# LINESTOP HOUSING	128	58	23
LSH-1215-00	12"-150# LINE STOP HOUSING	200	91	25
LSH-1415-00	14"-150# LINESTOP HOUSING	327	148	32
LSH-1615-00	16"-150# LINESTOP HOUSING	410	186	35
LSH-1815-00	18"-150# LINESTOP HOUSING	480	218	39
LSH-2015-00	20"-150# LINESTOP HOUSING	600	272	42
LSH-2215-00	22"-150# LINESTOP HOUSING	770	349	46
LSH-2415-00	24"-150# LINESTOP HOUSING	935	424	52
LSH-2615-00	26"-150# LINESTOP HOUSING	1075	488	54
LSH-2815-00	28"-150# LINESTOP HOUSING	1315	598	57
LSH-3015-00	30"-150# LINESTOP HOUSING	1425	646	60
LSH-3215-00	32"-150# LINESTOP HOUSING	1515	689	64
LSH-3415-00	34"-150# LINESTOP HOUSING	1636	744	69
LSH-3615-00	36"-150# LINESTOP HOUSING	1750	796	72
LSH-3815-00	38"-150# LINESTOP HOUSING	1890	859	77
LSH-4015-00	40"-150# LINESTOP HOUSING	2435	1107	81
LSH-4215-00	42"-150# LINESTOP HOUSING	3015	1371	84
LSH-4815-00	48"-150# LINESTOP HOUSING	3625	1644	90

ANSI 300

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.	HEIGHT IN.
LSH-0330-00	3"-300# LINESTOP HOUSING	35	16	13
LSH-0430-00	4"-300# LINESTOP HOUSING	43	20	14
LSH-0630-00	6"-300# LINESTOP HOUSING	73	33	17
LSH-0830-00	8"-300# LINESTOP HOUSING	130	59	19
LSH-1030-00	10"-300# LINESTOP HOUSING	185	84	23
LSH-1230-00	12"-300# LINE STOP HOUSING	285	129	25
LSH-1430-00	14"-300# LINESTOP HOUSING	410	186	32
LSH-1630-00	16"-300# LINESTOP HOUSING	535	243	35
LSH-1830-00	18"-300# LINESTOP HOUSING	655	297	39
LSH-2030-00	20"-300# LINESTOP HOUSING	735	333	42
LSH-2230-00	22"-300# LINESTOP HOUSING	985	447	46
LSH-2430-00	24"-300# LINESTOP HOUSING	1225	556	52
LSH-2630-00	26"-300# LINESTOP HOUSING	1410	640	54
LSH-2830-00	28"-300# LINESTOP HOUSING	1636	744	57
LSH-3030-00	30"-300# LINESTOP HOUSING	1795	814	60
LSH-3230-00	32"-300# LINESTOP HOUSING	1825	830	64
LSH-3430-00	34"-300# LINESTOP HOUSING	1984	902	69
LSH-3630-00	36"-300# LINESTOP HOUSING	2100	953	72
LSH-3830-00	38"-300# LINESTOP HOUSING	2367	1076	77
LSH-4030-00	40"-300# LINESTOP HOUSING	2915	1325	81
LSH-4230-00	42"-300# LINESTOP HOUSING	4015	1825	84
LSH-4830-00	48"-300# LINESTOP HOUSING	4315	1825	90

ANSI 600

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.	HEIGHT IN.
LSH-0360-00	3"-600# LINSTOP HOUSING	47	21	13
LSH-0460-00	4"-600# LINSTOP HOUSING	60	27	14
LSH-0660-00	6"-600# LINSTOP HOUSING	75	34	17
LSH-0860-00	8"-600# LINSTOP HOUSING	187	85	19
LSH-1060-00	10"-600# LINSTOP HOUSING	270	122	23
LSH-1260-00	12"-600# LINE STOP HOUSING	350	159	25
LSH-1460-00	14"-600# LINSTOP HOUSING	570	259	32
LSH-1660-00	16"-600# LINSTOP HOUSING	660	300	35
LSH-1860-00	18"-600# LINSTOP HOUSING	955	433	39
LSH-2060-00	20"-600# LINSTOP HOUSING	1025	465	42
LSH-2260-00	22"-600# LINSTOP HOUSING	1365	620	46
LSH-2460-00	24"-600# LINSTOP HOUSING	1740	789	52
LSH-2660-00	26"-600# LINSTOP HOUSING	1875	851	54
LSH-2860-00	28"-600# LINSTOP HOUSING	2138	972	57
LSH-3060-00	30"-600# LINSTOP HOUSING	2440	1108	60
LSH-3260-00	32"-600# LINSTOP HOUSING	2895	1316	64
LSH-3460-00	34"-600# LINSTOP HOUSING	4125	1875	69
LSH-3660-00	36"-600# LINSTOP HOUSING	5130	2327	72
LSH-3860-00	38"-600# LINSTOP HOUSING	5987	2722	77
LSH-4060-00	40"-600# LINSTOP HOUSING	6628	3013	81
LSH-4260-00	42"-600# LINSTOP HOUSING	7500	3403	84
LSH-4860-00	48"-600# LINSTOP HOUSING	8700	3946	90

NOTE

ANSI 150 HOUSINGS

ANSI 150 HOUSINGS ARE RATED AT 285 PSI MAXIMUM WORKING PRESSURE.

ANSI 300 HOUSINGS

ANSI 300 HOUSINGS ARE RATED AT 740 PSI MAXIMUM WORKING PRESSURE

ANSI 600 HOUSINGS

ANSI 600 HOUSINGS ARE RATED AT 1480 PSI MAXIMUM WORKING PRESSURE

LINESTOP HOUSINGS ARE SUPPLIED WITH RF FLANGES AS STANDARD.

RTJ FLANGES CAN BE SUPPLIED AS SPECIAL ORDER

PLEASE CONSULT THE FACTORY FOR DETAILS.

PART 2 - SECTION 4

PIVOTING PLUGGING HEADS



42" PIVOTING PLUGGING HEAD

ENR Pivoting Plugging heads are available in the range of 2" to 48" with working pressure 1000 PSI and 1480 PSI.

Standard 1000 PSI Pivoting Plugging heads are design to suit given range of the pipe I.D., usually for STD and EH wall pipe.

1480 PSI heads are design for specific pipe I.D. They could be use with different pipe I.D. but face plate and foot of the plug have to be modified.

IT IS IMORTANT THAT THE PIPE I.D. IS PROVIDED AT THE TIME OF THE PLACING INQUIRY

PIVOTING PLUGGING HEADS

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PPH-02-1000	2" PIVOTING PLUGGING HEAD, MOP 1000 PSI	3	1.4
PPH-03-1000	3" PIVOTING PLUGGING HEAD, MOP 1000 PSI	5	2.3
PPH-04-1000	4" PIVOTING PLUGGING HEAD, MOP 1000 PSI	7	3
PPH-06-1000	6" PIVOTING PLUGGING HEAD, MOP 1000 PSI	24	11
PPH-08-1000	8" PIVOTING PLUGGING HEAD, MOP 1000 PSI	48	22
PPH-10-1000	10" PIVOTING PLUGGING HEAD, MOP 1000 PSI	88	40
PPH-12-1000	12" PIVOTING PLUGGING HEAD, MOP 1000 PSI	150	68
PPH-14-1000	14" PIVOTING PLUGGING HEAD, MOP 1000 PSI	185	84
PPH-16-1000	16" PIVOTING PLUGGING HEAD, MOP 1000 PSI	260	118
PPH-18-1000	18" PIVOTING PLUGGING HEAD, MOP 1000 PSI	455	206
PPH-20-1000	20" PIVOTING PLUGGING HEAD, MOP 1000 PSI	525	239
PPH-22-1000	22" PIVOTING PLUGGING HEAD, MOP 1000 PSI	670	304
PPH-24-1000	24" PIVOTING PLUGGING HEAD, MOP 1000 PSI	870	395
PPH-26-1000	26" PIVOTING PLUGGING HEAD, MOP 1000 PSI	1050	477
PPH-28-1000	28" PIVOTING PLUGGING HEAD, MOP 1000 PSI	1410	641
PPH-30-1000	30" PIVOTING PLUGGING HEAD, MOP 1000 PSI	1610	730
PPH-32-1000	32" PIVOTING PLUGGING HEAD, MOP 1000 PSI	2075	944
PPH-34-1000	34" PIVOTING PLUGGING HEAD, MOP 1000 PSI	2645	1203
PPH-36-1000	36" PIVOTING PLUGGING HEAD, MOP 1000 PSI	3000	1364
PPH-38-1000	38" PIVOTING PLUGGING HEAD, MOP 1000 PSI	3685	1675
PPH-40-1000	40" PIVOTING PLUGGING HEAD, MOP 1000 PSI	4390	1996
PPH-42-1000	42" PIVOTING PLUGGING HEAD, MOP 1000 PSI	4925	2235
PPH-48-1000	48" PIVOTING PLUGGING HEAD, MOP 1000 PSI	6350	2880

PART NUMBER	DESCRIPTION	WEIGHT LB.	WEIGHT KG.
PPH-02-1480	2" PIVOTING PLUGGING HEAD, MOP 1480 PSI	3	1.4
PPH-03-1480	3" PIVOTING PLUGGING HEAD, MOP 1480 PSI	5	2.3
PPH-04-1480	4" PIVOTING PLUGGING HEAD, MOP 1480 PSI	9	4
PPH-06-1480	6" PIVOTING PLUGGING HEAD, MOP 1480 PSI	28	13
PPH-08-1480	8" PIVOTING PLUGGING HEAD, MOP 1480 PSI	56	25
PPH-10-1480	10" PIVOTING PLUGGING HEAD, MOP 1480 PSI	98	45
PPH-12-1480	12" PIVOTING PLUGGING HEAD, MOP 1480 PSI	175	80
PPH-14-1480	14" PIVOTING PLUGGING HEAD, MOP 1480 PSI	199	91
PPH-16-1480	16" PIVOTING PLUGGING HEAD, MOP 1480 PSI	296	134
PPH-18-1480	18" PIVOTING PLUGGING HEAD, MOP 1480 PSI	485	220
PPH-20-1480	20" PIVOTING PLUGGING HEAD, MOP 1480 PSI	555	252
PPH-22-1480	22" PIVOTING PLUGGING HEAD, MOP 1480 PSI	720	327
PPH-24-1480	24" PIVOTING PLUGGING HEAD, MOP 1480 PSI	950	431
PPH-26-1480	26" PIVOTING PLUGGING HEAD, MOP 1480 PSI	1185	538
PPH-28-1480	28" PIVOTING PLUGGING HEAD, MOP 1480 PSI	1575	714
PPH-30-1480	30" PIVOTING PLUGGING HEAD, MOP 1480 PSI	1810	821
PPH-32-1480	32" PIVOTING PLUGGING HEAD, MOP 1480 PSI	2275	1032
PPH-34-1480	34" PIVOTING PLUGGING HEAD, MOP 1480 PSI	2895	1313
PPH-36-1480	36" PIVOTING PLUGGING HEAD, MOP 1480 PSI	3350	1520
PPH-38-1480	38" PIVOTING PLUGGING HEAD, MOP 1490 PSI	4575	2075
PPH-40-1000	40" PIVOTING PLUGGING HEAD, MOP 1480 PSI	6990	3171
PPH-42-1000	42" PIVOTING PLUGGING HEAD, MOP 1480 PSI	9050	4105
PPH-48-1000	48" PIVOTING PLUGGING HEAD, MOP 1480 PSI	10250	4650

PART 2 - SECTION 5

SEALING ELEMENTS

Sealing Elements are available in a variety of materials to suit pipeline internal conditions. The basic materials offered are Buna Nitrile, Viton, and EPDM

MATERIAL	TEMP RANGE ° C	TEMP RANGE ° F
BUNA NITRILE	-40° C TO +135° C	-40° F TO +275° F
VITON	-15° C TO +205° C	-4° F TO +400° F
EPDM	-40° C TO +205° C	-40° F TO +400° F

ENR have the capability to produce Sealing Elements from certain other elastomer materials, dependent upon individual requirements.

PLEASE CONSULT THE FACTORY FOR DETAILS

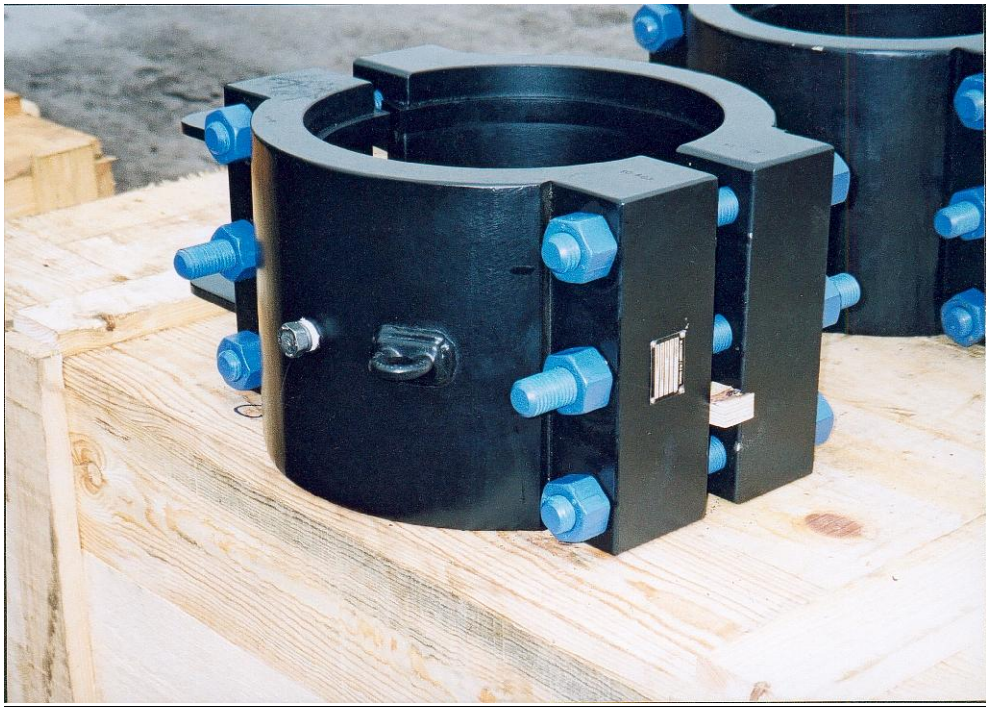
IMPORTANT NOTE

ALWAYS CONSULT A REPUTABLE ELASTOMER COMPATIBILITY CHART TO ENSURE THAT THE SELECTED SEALING ELEMENT IS COMPATIBLE WITH PIPELINE CONTENT

SIZE	BUNA-NITRILE	VITON	EPDM	WEIGHT LB.	WEIGHT KG.
2"	SE-04-BN	SE-03-V	SE-02-EP	.3	0.14
3"	SE-06-BN	SE-03-V	SE-03-EP	.5	0.23
4"	SE-04-BN	SE-04-V	SE-04-EP	1	0.5
6"	SE-06-BN	SE-06-V	SE-06-EP	2	0.9
8"	SE-08-BN	SE-08-V	SE-08-EP	2	0.9
10"	SE-10-BN	SE-10-V	SE-10-EP	2	2
12"	SE-12-BN	SE-12-V	SE-12-EP	5	2
14"	SE-14-BN	SE-14-V	SE-14-EP	7	3
16"	SE-16-BN	SE-16-V	SE-16-EP	9	4
18"	SE-18-BN	SE-18-V	SE-18-EP	12	5
20"	SE-20-BN	SE-20-V	SE-20-EP	19	9
22"	SE-22-BN	SE-22-V	SE-22-EP	24	11
24"	SE-24-BN	SE-24-V	SE-24-EP	37	17
26"	SE-26-BN	SE-26-V	SE-26-EP	40	18
28"	SE-28-BN	SE-28-V	SE-28-EP	53	24
30"	SE-30-BN	SE-30-V	SE-30-EP	65	30
32"	SE-32-BN	SE-32-V	SE-32-EP	69	32
34"	SE-34-BN	SE-34-V	SE-34-EP	73	33
36"	SE-36-BN	SE-36-V	SE-36-EP	77	35
38"	SE-38-BN	SE-38-V	SE-38-EP	83	38
40"	SE-40-BN	SE-40-V	SE-40-EP	89	41
42"	SE-42-BN	SE-42-V	SE-42-EP	95	43
48"	SE-48-BN	SE-48-V	SE-48-EP	105	48

PART THREE

SPLIT MECHANICAL REPAIR CLAMPS



12 INCH SPLIT MECHANICAL REPAIR CLAMP

The ENR Split Mechanical Repair Clamps are designed to encapsulate pipeline defects such as dents, areas of corrosion and small leaks.

The Clamps can be installed over a small operating leak by mounting the clamp away from the leak area, and sliding the Clamp over the leak. Vent points are installed on both halves of the Clamp that may be opened during installation to avoid pressure build-up during installation.

Clamps are fitted with elastomer seals to both the circumferential sections, in order to provide a seal between the Clamp and the Pipe O.D., and to the longitudinal halves to seal between the two halves of the Clamp.

Seals are offered in a variety of materials as shown in the table below.

MATERIAL	TEMP RANGE ° C	TEMP RANGE ° F
BUNA NITRILE	-40° C TO +135° C	-40° F TO +275° F
VITON	-15° C TO +205° C	-4° F TO +400° F
EPDM	-40° C TO +205° C	-40° F TO +400° F

Split Mechanical Repair Clamps are available in Standard Sizes, providing a specific distance between Circumferential Seals, so encapsulating smaller defects. In addition, Clamps are available in extended lengths to encapsulate larger defects.

PLEASE CONSULT THE FACTORY FOR DETAILS REGARDING EXTENDED LENGTH CLAMPS

Standard Maximum Operating Pressure for Split Mechanical repair Clamps is 1000 PSI, but a further Standard Range of 1500 PSI Maximum Operating Pressure Clamps is available

The unique design of the Seal retention System allows for 100% uninterrupted coverage of the seal area on both the Longitudinal and Circumferential seals, without the intrusion of metal retention forms.

This system ensures a higher degree of flexibility of the Seal, and corresponding greater seal coverage, so providing a far more efficient sealing system over conventional clamp designs

SHOULD OPERATING PRESSURE GREATER THAN 1500 PSI BE REQUIRED, PLEASE CONSULT THE FACTORY FOR DETAILS AND AVAILABILITY

1000 PSI SPLIT MECHANICAL REPAIR CLAMPS

SIZE	PART NUMBER	DISTANCE BETWEEN SEALS (IN.)	OVERALL LENGTH (IN.)	WEIGHT LB.	WEIGHT KG.
2"	SMRC-02-1000	5-1/4"	8"	26	12
3"	SMRC-03-1000	5-1/4"	8"	37	17
4"	SMRC-04-1000	5-1/4"	8"	47	22
5"	SMRC-05-1000	5-1/4"	8"	80	37
6"	SMRC-06-1000	5-1/4"	8"	80	37
8"	SMRC-08-1000	6-1/2"	10"	112	51
10"	SMRC-10-1000	6-1/2"	10"	165	75
12"	SMRC-12-1000	6-1/2"	10"	215	98
14"	SMRC-14-1000	10"	14"	360	164
16"	SMRC-16-1000	10"	14"	425	194
18"	SMRC-18-1000	10"	14"	545	248
20"	SMRC-20-1000	8-1/2"	14"	690	314
22"	SMRC-22-1000	8-1/2"	14"	770	350
24"	SMRC-24-1000	8-1/2"	14"	825	375
26"	SMRC-26-1000	8-1/2"	14"	920	419
28"	SMRC-28-1000	8-1/2"	14"	990	450
30"	SMRC-30-1000	8-1/2"	14"	1265	575
32"	SMRC-32-1000	8-1/2"	14"	1344	611
34"	SMRC-34-1000	8-1/2"	15"	1366	621
36"	SMRC-36-1000	8-1/2"	15"	1455	662
38"	SMRC-38-1000	8-1/2"	15"	1510	687
40"	SMRC-40-1000	8-1/2"	16"	1925	875
42"	SMRC-42-1000	8-1/2"	16"	2015	916
48"	SMRC-48-1000	8-1/2"	16"	2525	1148

IMPORTANT NOTE

THE PART NUMBER SHOULD INCLUDE A SUFFIX AS FOLLOWS

FOR BUNA NITRILE “-BN”

FOR VITON “-V”

FOR EPDM “-EP”

1500 PSIG SPLIT MECHANICAL REPAIR CLAMPS

SIZE	PART NUMBER	DISTANCE BETWEEN SEALS (IN.)	OVERALL LENGTH (IN.)	WEIGHT LB.	WEIGHT KG.
2"	SMRC-02-1500	5-1/4"	8"	33	15
3"	SMRC-03-1500	5-1/4"	8"	46	21
4"	SMRC-04-1500	5-1/4"	8"	60	28
5"	SMRC-05-1500	5-1/4"	8"	80	37
6"	SMRC-06-1500	5-1/4"	8"	100	46
8"	SMRC-08-1500	6-1/2"	10"	142	65
10"	SMRC-10-1500	6-1/2"	10"	205	94
12"	SMRC-12-1500	6-1/2"	10"	270	123
14"	SMRC-14-1500	10"	14"	450	205
16"	SMRC-16-1500	10"	14"	535	244
18"	SMRC-18-1500	10"	14"	680	310
20"	SMRC-20-1500	8-1/2"	14"	870	396
22"	SMRC-22-1500	8-1/2"	14"	950	432
24"	SMRC-24-1500	8-1/2"	14"	1030	469
26"	SMRC-26-1500	8-1/2"	14"	1150	523
28"	SMRC-28-1500	8-1/2"	14"	1240	564
30"	SMRC-30-1500	8-1/2"	14"	1590	723
32"	SMRC-32-1500	8-1/2"	14"	1430	650
34"	SMRC-34-1500	8-1/2"	15"	1470	669
36"	SMRC-36-1500	8-1/2"	15"	1800	819
38"	SMRC-38-1500	8-1/2"	15"	1890	860
40"	SMRC-40-1500	8-1/2"	16"	2400	1091
42"	SMRC-42-1500	8-1/2"	16"	2550	1160
48"	SMRC-48-1500	8-1/2"	16"	2920	1328

IMPORTANT NOTE

THE PART NUMBER SHOULD INCLUDE A SUFFIX AS FOLLOWS

FOR BUNA NITRILE “-BN”

FOR VITON “-V”

FOR EPDM “-EP”