MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

MICON, Inc.
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INSTALLATION GUIDELINES
(In Mine Openings up to 32.5-ft High by up to 28-ft Wide Mine Openings)

MATERIALS, SITE PREPARATION, AND QUALITY CONTROL

1. The materials used in the installation of the MICON HYBRID II seal include, but are not limited to:

    - Solid, concrete masonry unit (CMU) blocks,
    - Prepackaged bags or prepackaged buckets of #57 stone, or pea gravel,
    - SIGNUM & HybriBond, which are two-component, liquid polymers,
    - Untreated wood wedges
    - Fibrous filler chinking material/open cell backer-rod.

2. Each component of SIGNUM and HybriBond is packaged in sealed containers.

3. The storage requirement for the CMU blocks, wood wedges, and prepackaged (e.g., bags or buckets) #57 or pea gravel is a dry location and/or a location protected with a covering. The use restriction for these materials is that their outer surfaces are not visibly wet; some drops of condensation are allowed.

4. The use requirement for the SIGNUM and HybriBond is the temperature of each component in their drums prior to use shall be from 40° F to 90° F. The MICON technician shall take temperature readings for both components of SIGNUM and HybriBond in their containers before use.

5. MICON shall not install the MICON Hybrid II seal unless the CMU has been supplied by a MICON-sanctioned block manufacturer.

6. The location(s) for the MICON seal shall be chosen by the mine and documented in their MSHA-approved ventilation/sealing plan and would be in compliance with the mine's MSHA-approved roof control/other plan(s). The mine P.E. shall certify that the strata at the chosen seal location has an average, shear strength of 288-psi.

7. The front face of the outby wall and the back face of the inby wall of the MICON HYBRID II seal should ideally be 10 feet from any rib line, but not less than 5 feet. If a distance less than 10 feet, but greater than 5 feet is the only possibility,

the mine's P.E. shall assure the ribs are competent before MICON would start construction of their seal. If required by either MSHA or the mine P.E., ribs less than 10-ft, but at least 5-ft, shall be reinforced as approved by the MSHA District Manager.

8. The location for the MICON seal shall be free of standing water. Any running water shall be diverted from the seal location. If present, water shall be removed and "B" Bond, or equal, shall be used to dry the area prior to seal construction.

9. All metallic material, such as roof screens, conduit lines, mine rails, etc., shall be removed in the location of the MICON seal to ensure no metallic material will penetrate completely through the MICON seal's interior. Roof bolts, roof bolt plates, roof pans, and any other metallic material, which would be either completely or partially contained within the seal, can be left in place as long as said object does not pass completely through the seal.

10. Remove loose and soft material as practical from the roof, ribs, and floor, exposing competent rock/coal/strata at the seal location for at least the proposed, total thickness of the seal. All debris in the area 50 feet inby the seal location and 50 feet outby the seal location will be removed. Hitching into the competent ribs is not required.

11. Clear exposed surfaces of accumulations of dusts or loose materials by brushing, air blowing, or equal. The strata surfaces do not have to be dust-free for seal installation.

12. After practical loose material is removed from the roof, ribs, and floor, three (3) measurements – equally spaced approximately in the horizontal and vertical directions across the mine opening - shall be taken to determine the maximum height and width of the "cleaned" mine opening through the thickness of the proposed seal. MICON personnel shall verify the maximum, dimensions of the "cleaned" mine opening.

13. Using the seal-thickness charts, MICON personnel shall establish the minimum thickness of the MICON seal's core for the maximum height and width measured (both rounded upward to the nearest 0.25 foot) for the "cleaned" mine opening.

14. If the "cleaned", mine-opening width exceeds 28 ft., a MICON Hybrid II seal could not be constructed.

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15. If the "cleaned", mine-opening height exceeds 32.5-ft., a MICON Hybrid II seal could not be constructed.

16. If the "cleaned", mine-opening height is less than 4 ft., the minimum, core thickness for a 4 ft. height shall be used.

17. The 120-psi, MICON HYBRID II seal shall only be installed by personnel who either (a) have been trained on the installation of the MICON seal and are working under the direction of a MICON representative, (b) are trained MICON employees, and/or (c) are mine workers under the direction of the on-site MICON representative.

18. The 120-psi, MICON HYBRID II, mainline seal may have multiple, sampling or water- monitoring pipes from 1/8" to 1-inch in diameter. Any high-density polyethylene, PVC, CPVC or similar, non-metallic material approved by the mine P.E., having an internal pressure rating of at least 240-psi would be acceptable for these pipes.

19. The valves and fittings outside of the mine seal shall be made of corrosion-resistant or plastic-coated, metallic material having an internal pressure rating of 240-psi. Non-metallic valves and fittings can be used provided they have an internal pressure rating of at least 240-psi.

20. Water-monitoring pipes, when required, shall be installed as per the mine's MSHA-approved sealing plan.

21. At least one sampling pipe should be installed a maximum 12 inches from the roof on the inby side and extended to the center of 1st, inby crosscut supported along its length as per the mine's approved seal plan. When installing a MICON Hybrid II seal in front of existing seals, extend existing vent pipes if available.

22. The 120-psi, MICON HYBRID II, mainline seal may have water drainage pipe(s), with a configuration of either up to three (3), 8-inch diameter pipes or up to four (4), no more than 6-inches in diameter, water drainage pipe(s). The water drainage pipes shall be on 24-inch or greater centers and at least 12-inches away from either rib. Any high-density polyethylene, or similar, non-metallic material approved by the mine P.E., having an internal pressure rating of at least 240-psi would be acceptable for these pipes. No PVC or CPVC pipe allowed.

23. The inby end of all water-drainage pipes shall have a horizontal "T" to minimize the inflow of debris into the pipe.

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24. The location requirement for the water-drainage pipes is: Any two pipes and/or their water traps shall be spaced at least 2-ft. on centers away from any other water pipe/water trap and at least 1-ft. on center away from either rib. The water trap(s) may or may not be recessed into the mine floor.

25. The seal is designed for a maximum water height inby the seal of no more than 2-ft, but the inby top of the water pipe shall not exceed 12 inches from the mine floor. However, the maximum distance between the top of the inby end of the water drainage pipe and the mine floor as required by the MSHA District Manager in a mine's MSHA-approved sealing plan shall be followed in the construction of the seal. The mine shall insure that no standing water can accumulate on the outby face of the seal as the entire outby face and outby perimeter of the seal is subjected to routine inspection by mine personnel. Upstream of the inby, water-drainage pipe shall be a weir, which could be constructed by installing cmu glued together with SIGNUM, whose flowline shall be equal to or higher than the elevation of the top of the inby, water drainage pipe.

26. Prior to either the installation of each MICON HYBRID II seal or whenever a change-out in the two-component, pumping system is made, MICON personnel would prepare at the construction site for the seal at least three, "beam" samples made by gluing with SIGNUM, the abutting faces of three (3), 3-1/2" x 3-1/2" x 3-1/2" cubes of CMU block to form 3-1/2" x 3-1/2" x 10-1/2" test specimens. Then, the six, exterior sides of each "beam" specimen would be coated with a minimum 3/16" to a maximum 5/16" of HybriBond. The construction site for the seal is the area that encompasses where the seal is being built and the location of the polymer pumps as long as both are in the same ventilation stream.

27. The "beam" test specimens shall be cured at their respective seal location where they were prepared for at least 1-hour before being sent for testing.

28. The collected, quality-control, "beam" samples shall be delivered to MICON, a testing laboratory, or a laboratory technician on site by either the mine operator or MICON personnel.

29. A technician, who had been trained and certified for the direct-shear test, shall conduct the tests on the "beam" specimens. These quality control tests shall be conducted at an ASTM member laboratory following the standard testing procedures.

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30. Three (3), consecutive "beam" samples shall exhibit a minimum, shear strength of 288 psi in a direct-shear test of the SIGNUM/CMU block interface.

31. If the pump has been idle in the construction of the same seal, MICON technicians shall conduct a ratio test on the pump before using it in the further construction of the seal. Furthermore, a ratio test shall be conducted every time the pump is started and/or whenever a pump is changed out. (QC specimens do not have to be taken in this instance).

32. The ratio test consists of filling two containers – at least 8 oz each – simultaneously with the two-component pump and assuring the filled volumes of both containers do not vary by more than 1 oz from one another. Each container shall have 1-ounce graduation marks so that the ratio differential can be visually verified by MICON personnel.

33. A laboratory copy of the test results for each seal shall be given to the mine operator for transmittal to the MSHA District Office.

34. Each MICON HYBRID II seal shall not be considered to have reached its design strength until a laboratory copy of tests results are received and accepted by the MSHA District Office.

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CONSTRUCTION STEPS

1. There are myriad methods by which the seal foundation could be prepared and installed. Regardless of method employed, all the pea gravel/#57 stone installed under the seal's CMU wythes shall be saturated with SIGNUM and/or Hybribond before the seal is completed.

2. Prepare the foundation for the Hybrid II seal. The foundation or a portion thereof could be the mine floor to which base CMU blocks would be glued using SIGNUM. However, the most common, final foundation or portion thereof would be made of pea gravel/#57 stone saturated with SIGNUM. The pea gravel/#57 stone-SIGNUM foundation would be either flat or stepped.

3. Using any size, solid CMU blocks, construct the first (usually the inby), CMU wall (wythe) for the MICON Hybrid II seal using SIGNUM to grout the abutting faces of the CMU together such that the wall (wythe) thickness is a minimum 7-1/4" thick. The SIGNUM coverage of any CMU block surface shall be at least 75%.

4. The maximum, polymer-only gap between the end courses/rows of CMU block and the rib shall be 2-inches or less.

5. The maximum, polymer-only distance between the top courses/rows of CMU block and the mine roof shall be 4-inches or less.

6. The construction of the first wythe of CMU block may be constructed simultaneously with the other wythes of CMU block.

7. Construct the subsequent wythes of CMU block in the same manner as the first CMU wythe had been constructed in Steps 1 to 6 above. Construct as many wythes as are needed to achieve the minimum, seal thickness specified in the seal thickness chart.

8. The thickness of all wythes is a minimum 7-1/4" thick to a maximum 16" thick.

9. The gap between all adjacent, CMU wythes shall be a minimum ¼" to a maximum of 2" and filled with either SIGNUM or HybriBond. (The typical gap is about 1-inch). The gap between the two, most-outby wythes can be a minimum ¼" to a maximum 4" and filled with wither SIGNUM or HybriBond.

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10. CMU blocks can be cut or shaped to accommodate the sampling/water/water-monitoring pipes. MICON personnel would grout the pipes/tubes to the surrounding CMU block with SIGNUM or HybriBond, assuring that all voids are filled between the pipes/tubes and the CMU block throughout the seal's thickness.

11. When needed, stemming or "chinking" of the inby, interior, and/or outby, rib and roof gaps/voids to prevent SIGNUM or HybriBond from leaking outwardly when in their liquid states shall be achieved via MICON's fibrous filler.

12. MICON's fibrous filler, which comes in various diameters, shall be coated with SIGNUM before being installed in the perimeter voids/gaps. The performance criteria for this stemming or "chinking" method is that the cured, SIGNUM and HybriBond must be either flush or extend beyond the inby and outby faces of the seal and shall fully fill the gaps/voids.

13. The vertical and horizontal seams between the CMU block on the inby and outby faces of the seal must be filled with SIGNUM or HybriBond at least flush with the inby and outby faces of the seal for a minimum 95% of the exposed seams.

14. Gaps or voids in these exterior seams that are greater than 0.5" deep shall be filled with SIGNUM, HybriBond, pea gravel-SIGNUM mixture, and/or SIGNUM-glued CMU pieces, or coated open cell stemming/chinking/backer rod foam.

15. Because any gap/void less than 1-inch deep in the vertical and/or horizontal seams of the interior, CMU wythes are subsequently filled up with HybriBond or SIGNUM in Step 9. above, no filling of these 1-inch or less "empty" seams is required after the completion of each, interior wythe.

16. Fully fill the gaps (maximum 4" as per Step 5. above) between the top courses/rows of CMU block and the mine roof with SIGNUM, HybriBond, SIGNUM-glued, shaped pieces of CMU block, pea gravel/#57 stone-SIGNUM mixture, and/or SIGNUM-coated, untreated, wood wedges. The use of SIGNUM-coated, untreated, wood wedges shall not exceed 5% of the roof contact area.

17. Fully fill the gaps (maximum 2" as per Step 4. above) between the end courses/rows of CMU block and the mine rib with SIGNUM, HybriBond, SIGNUM-glued, shaped pieces of CMU block, pea gravel/#57 stone-SIGNUM mixture, and/or SIGNUM-coated, untreated, wood wedges. For localized gaps up to 4" deep, shaped pieces of CMU glued into place by either SIGNUM or HybriBond can be used. The use of SIGNUM-coated, untreated, wood wedges shall not exceed 5% of the rib contact area.

18. Mine personnel shall be responsible for assuring that the appropriate sampling, water, water-monitoring, etc. pipes through the seal are installed as specified in the mine's MSHA-approved ventilation/sealing plan.

19. If leakage is ever detected around the seal-strata interface after seal construction, but before the quality control tests results are received and accepted by the MSHA District Manager, the suspect portions of the perimeter interface shall be grouted only by MICON via jam-rodding, ring grouting, and/or other MICON grouting techniques with SIGNUM, MICON-70, or HybriBond. The use of non-MICON, grouting material in and/or around the Hybrid II seal shall not be used as said material could compromise the integrity of the Hybrid II seal.

20. After the MSHA District Manager receives and accepts the quality control test results, grouting the seal-strata interface can be done only by MICON via jam-rodding, ring grouting, and/or other MICON grouting techniques with SIGNUM, MICON-70, or HybriBond, but only if the total volume of polymer used does not exceed 10% of (1/12) x seal width in feet x seal thickness in feet. The use of non-MICON, grouting material in and/or around the Hybrid II seal shall not be used as said material could compromise the integrity of the Hybrid II seal.

21. After the MSHA District Manager receives and accepts the quality control test results, grouting the seal-strata interface with more than a total volume of polymer of 10% of (1/12) x seal width in feet x seal thickness in feet would be considered a structural repair and therefore forbidden. Should MICON have attempted to grout the seal-strata interface and use more than the aforementioned, maximum volume of polymer, the seal shall be replaced.

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22. If leakage is ever detected around the seal in the strata, even after seal construction and even after the quality control tests results are received and accepted by the MSHA District Manager, the suspect portions of the surrounding strata shall be grouted only by MICON via jam-rodding, ring grouting, and/or other MICON grouting techniques with SIGNUM, MICON-70, or HybriBond. The use of non-MICON, grouting material in and/or around the Hybrid II seal shall not be used as said material could compromise the integrity of the Hybrid II seal.

23. The inby and/or outby faces of the MICON Hybrid II seal can be coated with an MSHA-approved sealant.

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ADDITIONAL QUALITY CONTROL DETAILS

1. No quality control/assurance samples are required to be taken underground and subsequently tested other than the QC samples specified in Item 26. of MATERIALS, SITE PREPARATION, AND QUALITY CONTROL.

2. In situations where the mine operator purchases the CMU blocks, MICON shall provide the mine operator a list of MICON-sanctioned, suppliers for the CMU. MICON shall not install the MICON Hybrid II seal unless the CMU has been supplied by a MICON-sanctioned, block manufacturer.

3. When the mine provides the CMU block, MICON requires the mine to supply to MSHA the MICON-sanctioned block manufacturer's "mill sheet", which documents that the quality control samples from the manufactured lot of the CMU have been tested as per ASTM C-140 showing that the CMU's compressive strength is at least 1,800-psi.

4. The sealed containers of the two components of SIGNUM and HybriBond shall be quality-controlled by the supplier.

5. Should application/mixing equipment be found to be "off-ratio", a back-up application system would be employed by MICON's technicians. Prior to the use of the back-up system, at least two (2), quality-control samples (See Item 26. in MATERIALS, SITE PREPARATION, AND QUALITY CONTROL) would be constructed and stored for at least 1-hour underground at the seal construction site before being removed for testing.

6. Neither repairs nor modifications to the seal may be performed once the MSHA District Manager acknowledges acceptance of the QC tests.

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CONVERGENCE MEASUREMENTS

1. A convergence measurement between the mine roof and floor shall be taken in accordance with the mine-specific ventilation plan.

2. Pins or equal should be placed in the face of the seal on or about the centerline of the outby face of the seal – one at or near the mine roof and the other at or near the mine floor – for use by a professional engineer in assessing the seal's integrity should the outby, roof-to-floor, convergence measurement of the mine roof and floor exceed the maximum, allowable convergence specified.

3. A permanently placed "pogo" stick or extensometer may be placed between the two aforementioned pins at the outby face of the seal to record compression of the body of the seal.

4. If a roof-to-floor convergence measurement exceeds the maximum, allowable convergence specified, a top-to-bottom convergence measurement of the outby face of the seal exceeds 3% of the height of the seal, and/or the outby, CMU block wall shows signs of cracking, the company shall notify the governing MSHA District Office and MICON within 24 hours of discovery. The MICON Hybrid II seal is designed to remain elastic in conditions when floor-to-roof, mine convergence is as high as 30% and top-to-bottom compression (convergence) of the seal itself is as high as 3%. Once the allowable convergence is exceeded, the seal shall be evaluated by a Professional Engineer (P.E.), and the governing MSHA District Office shall be supplied with a certification of the seal's condition and structural integrity.

5. If MICON determines that the convergence might have compromised the seal's strength, a Professional Engineer (P.E.) must be contacted immediately to evaluate the effects of this convergence and certify the structural integrity of the seal and provide that certification to the MSHA District Office.

6. Cracks/voids in the SIGNUM-glued CMU, outby face, which the Professional Engineer has determined to be non-structural, may be repaired with the filling of the cracks/voids with SIGNUM by a MICON technician.

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120-psi, MICON Hybrid II, Mainline Seal Minimum Thickness Chart

Pressure	D.L.F.	L.F.	Height	Width	a/b	Min Thick σ	Min Thick	Max Convergence
(psi)	(#)	(#)	(ft)	(ft)	(ratio)	(in)	(in)	(in)
120	2	1.5	4	18	4.50	26.3	26.3	1.44
120	2	1.5	4	19	4.75	26.3	26.3	1.44
120	2	1.5	4	20	5.00	26.3	26.3	1.44
120	2	1.5	4	21	5.25	26.3	26.3	1.44
120	2	1.5	4	22	5.50	26.3	26.3	1.44
120	2	1.5	4	23	5.75	26.3	26.3	1.44
120	2	1.5	4	24	6.00	26.3	26.3	1.44
120	2	1.5	4	25	6.25	26.3	26.3	1.44
120	2	1.5	4	26	6.50	26.3	26.3	1.44
120	2	1.5	4	27	6.75	26.3	26.3	1.44
120	2	1.5	4	28	7.00	26.3	26.3	1.44
120	2	1.5	4.25	18	4.24	27.9	27.9	1.53
120	2	1.5	4.25	19	4.47	27.9	27.9	1.53
120	2	1.5	4.25	20	4.71	27.9	27.9	1.53
120	2	1.5	4.25	21	4.94	27.9	27.9	1.53
120	2	1.5	4.25	22	5.18	27.9	27.9	1.53
120	2	1.5	4.25	23	5.41	27.9	27.9	1.53
120	2	1.5	4.25	24	5.65	27.9	27.9	1.53
120	2	1.5	4.25	25	5.88	27.9	27.9	1.53
120	2	1.5	4.25	26	6.12	27.9	27.9	1.53
120	2	1.5	4.25	27	6.35	27.9	27.9	1.53
120	2	1.5	4.25	28	6.59	27.9	27.9	1.53
120	2	1.5	4.5	18	4.00	29.5	29.5	1.62
120	2	1.5	4.5	19	4.22	29.5	29.5	1.62
120	2	1.5	4.5	20	4.44	29.5	29.5	1.62
120	2	1.5	4.5	21	4.67	29.5	29.5	1.62
120	2	1.5	4.5	22	4.89	29.5	29.5	1.62
120	2	1.5	4.5	23	5.11	29.5	29.5	1.62
120	2	1.5	4.5	24	5.33	29.5	29.5	1.62
120	2	1.5	4.5	25	5.56	29.5	29.5	1.62
120	2	1.5	4.5	26	5.78	29.5	29.5	1.62
120	2	1.5	4.5	27	6.00	29.5	29.5	1.62
120	2	1.5	4.5	28	6.22	29.5	29.5	1.62
120	2	1.5	4.75	18	3.79	31.2	31.2	1.71

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120	2	1.5	4.75	19	4.00	31.2	31.2	1.71
120	2	1.5	4.75	20	4.21	31.2	31.2	1.71
120	2	1.5	4.75	21	4.42	31.2	31.2	1.71
120	2	1.5	4.75	22	4.63	31.2	31.2	1.71
120	2	1.5	4.75	23	4.84	31.2	31.2	1.71
120	2	1.5	4.75	24	5.05	31.2	31.2	1.71
120	2	1.5	4.75	25	5.26	31.2	31.2	1.71
120	2	1.5	4.75	26	5.47	31.2	31.2	1.71
120	2	1.5	4.75	27	5.68	31.2	31.2	1.71
120	2	1.5	4.75	28	5.89	31.2	31.2	1.71
120	2	1.5	5	18	3.60	32.8	32.8	1.80
120	2	1.5	5	19	3.80	32.8	32.8	1.80
120	2	1.5	5	20	4.00	32.8	32.8	1.80
120	2	1.5	5	21	4.20	32.8	32.8	1.80
120	2	1.5	5	22	4.40	32.8	32.8	1.80
120	2	1.5	5	23	4.60	32.8	32.8	1.80
120	2	1.5	5	24	4.80	32.8	32.8	1.80
120	2	1.5	5	25	5.00	32.8	32.8	1.80
120	2	1.5	5	26	5.20	32.8	32.8	1.80
120	2	1.5	5	27	5.40	32.8	32.8	1.80
120	2	1.5	5	28	5.60	32.8	32.8	1.80
120	2	1.5	5.25	18	3.43	34.5	34.5	1.89
120	2	1.5	5.25	19	3.62	34.5	34.5	1.89
120	2	1.5	5.25	20	3.81	34.5	34.5	1.89
120	2	1.5	5.25	21	4.00	34.5	34.5	1.89
120	2	1.5	5.25	22	4.19	34.5	34.5	1.89
120	2	1.5	5.25	23	4.38	34.5	34.5	1.89
120	2	1.5	5.25	24	4.57	34.5	34.5	1.89
120	2	1.5	5.25	25	4.76	34.5	34.5	1.89
120	2	1.5	5.25	26	4.95	34.5	34.5	1.89
120	2	1.5	5.25	27	5.14	34.5	34.5	1.89
120	2	1.5	5.25	28	5.33	34.5	34.5	1.89
120	2	1.5	5.5	18	3.27	36.1	36.1	1.98
120	2	1.5	5.5	19	3.45	36.1	36.1	1.98
120	2	1.5	5.5	20	3.64	36.1	36.1	1.98
120	2	1.5	5.5	21	3.82	36.1	36.1	1.98
120	2	1.5	5.5	22	4.00	36.1	36.1	1.98
120	2	1.5	5.5	23	4.18	36.1	36.1	1.98
120	2	1.5	5.5	24	4.36	36.1	36.1	1.98
120	2	1.5	5.5	25	4.55	36.1	36.1	1.98
120	2	1.5	5.5	26	4.73	36.1	36.1	1.98
120	2	1.5	5.5	27	4.91	36.1	36.1	1.98

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120	2	1.5	5.5	28	5.09	36.1	36.1	1.98
120	2	1.5	5.75	18	3.13	37.7	37.7	2.07
120	2	1.5	5.75	19	3.30	37.7	37.7	2.07
120	2	1.5	5.75	20	3.48	37.7	37.7	2.07
120	2	1.5	5.75	21	3.65	37.7	37.7	2.07
120	2	1.5	5.75	22	3.83	37.7	37.7	2.07
120	2	1.5	5.75	23	4.00	37.7	37.7	2.07
120	2	1.5	5.75	24	4.17	37.7	37.7	2.07
120	2	1.5	5.75	25	4.35	37.7	37.7	2.07
120	2	1.5	5.75	26	4.52	37.7	37.7	2.07
120	2	1.5	5.75	27	4.70	37.7	37.7	2.07
120	2	1.5	5.75	28	4.87	37.7	37.7	2.07
120	2	1.5	6	18	3.00	39.4	39.4	2.16
120	2	1.5	6	19	3.17	39.4	39.4	2.16
120	2	1.5	6	20	3.33	39.4	39.4	2.16
120	2	1.5	6	21	3.50	39.4	39.4	2.16
120	2	1.5	6	22	3.67	39.4	39.4	2.16
120	2	1.5	6	23	3.83	39.4	39.4	2.16
120	2	1.5	6	24	4.00	39.4	39.4	2.16
120	2	1.5	6	25	4.17	39.4	39.4	2.16
120	2	1.5	6	26	4.33	39.4	39.4	2.16
120	2	1.5	6	27	4.50	39.4	39.4	2.16
120	2	1.5	6	28	4.67	39.4	39.4	2.16
120	2	1.5	6.25	18	2.88	41.0	41.0	2.25
120	2	1.5	6.25	19	3.04	41.0	41.0	2.25
120	2	1.5	6.25	20	3.20	41.0	41.0	2.25
120	2	1.5	6.25	21	3.36	41.0	41.0	2.25
120	2	1.5	6.25	22	3.52	41.0	41.0	2.25
120	2	1.5	6.25	23	3.68	41.0	41.0	2.25
120	2	1.5	6.25	24	3.84	41.0	41.0	2.25
120	2	1.5	6.25	25	4.00	41.0	41.0	2.25
120	2	1.5	6.25	26	4.16	41.0	41.0	2.25
120	2	1.5	6.25	27	4.32	41.0	41.0	2.25
120	2	1.5	6.25	28	4.48	41.0	41.0	2.25
120	2	1.5	6.5	18	2.77	42.7	42.7	2.34
120	2	1.5	6.5	19	2.92	42.7	42.7	2.34
120	2	1.5	6.5	20	3.08	42.7	42.7	2.34
120	2	1.5	6.5	21	3.23	42.7	42.7	2.34
120	2	1.5	6.5	22	3.38	42.7	42.7	2.34
120	2	1.5	6.5	23	3.54	42.7	42.7	2.34
120	2	1.5	6.5	24	3.69	42.7	42.7	2.34
120	2	1.5	6.5	25	3.85	42.7	42.7	2.34

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	6.5	26	4.00	42.7	42.7	2.34
120	2	1.5	6.5	27	4.15	42.7	42.7	2.34
120	2	1.5	6.5	28	4.31	42.7	42.7	2.34
120	2	1.5	6.75	18	2.67	44.3	44.3	2.43
120	2	1.5	6.75	19	2.81	44.3	44.3	2.43
120	2	1.5	6.75	20	2.96	44.3	44.3	2.43
120	2	1.5	6.75	21	3.11	44.3	44.3	2.43
120	2	1.5	6.75	22	3.26	44.3	44.3	2.43
120	2	1.5	6.75	23	3.41	44.3	44.3	2.43
120	2	1.5	6.75	24	3.56	44.3	44.3	2.43
120	2	1.5	6.75	25	3.70	44.3	44.3	2.43
120	2	1.5	6.75	26	3.85	44.3	44.3	2.43
120	2	1.5	6.75	27	4.00	44.3	44.3	2.43
120	2	1.5	6.75	28	4.15	44.3	44.3	2.43
120	2	1.5	7	18	2.57	46.0	46.0	2.52
120	2	1.5	7	19	2.71	46.0	46.0	2.52
120	2	1.5	7	20	2.86	46.0	46.0	2.52
120	2	1.5	7	21	3.00	46.0	46.0	2.52
120	2	1.5	7	22	3.14	46.0	46.0	2.52
120	2	1.5	7	23	3.29	46.0	46.0	2.52
120	2	1.5	7	24	3.43	46.0	46.0	2.52
120	2	1.5	7	25	3.57	46.0	46.0	2.52
120	2	1.5	7	26	3.71	46.0	46.0	2.52
120	2	1.5	7	27	3.86	46.0	46.0	2.52
120	2	1.5	7	28	4.00	46.0	46.0	2.52
120	2	1.5	7.25	18	2.48	47.6	47.6	2.61
120	2	1.5	7.25	19	2.62	47.6	47.6	2.61
120	2	1.5	7.25	20	2.76	47.6	47.6	2.61
120	2	1.5	7.25	21	2.90	47.6	47.6	2.61
120	2	1.5	7.25	22	3.03	47.6	47.6	2.61
120	2	1.5	7.25	23	3.17	47.6	47.6	2.61
120	2	1.5	7.25	24	3.31	47.6	47.6	2.61
120	2	1.5	7.25	25	3.45	47.6	47.6	2.61
120	2	1.5	7.25	26	3.59	47.6	47.6	2.61
120	2	1.5	7.25	27	3.72	47.6	47.6	2.61
120	2	1.5	7.25	28	3.86	47.6	47.6	2.61
120	2	1.5	7.5	18	2.40	49.2	49.2	2.70
120	2	1.5	7.5	19	2.53	49.2	49.2	2.70
120	2	1.5	7.5	20	2.67	49.2	49.2	2.70
120	2	1.5	7.5	21	2.80	49.2	49.2	2.70
120	2	1.5	7.5	22	2.93	49.2	49.2	2.70
120	2	1.5	7.5	23	3.07	49.2	49.2	2.70

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	7.5	24	3.20	49.2	49.2	2.70
120	2	1.5	7.5	25	3.33	49.2	49.2	2.70
120	2	1.5	7.5	26	3.47	49.2	49.2	2.70
120	2	1.5	7.5	27	3.60	49.2	49.2	2.70
120	2	1.5	7.5	28	3.73	49.2	49.2	2.70
120	2	1.5	7.75	18	2.32	50.9	50.9	2.79
120	2	1.5	7.75	19	2.45	50.9	50.9	2.79
120	2	1.5	7.75	20	2.58	50.9	50.9	2.79
120	2	1.5	7.75	21	2.71	50.9	50.9	2.79
120	2	1.5	7.75	22	2.84	50.9	50.9	2.79
120	2	1.5	7.75	23	2.97	50.9	50.9	2.79
120	2	1.5	7.75	24	3.10	50.9	50.9	2.79
120	2	1.5	7.75	25	3.23	50.9	50.9	2.79
120	2	1.5	7.75	26	3.35	50.9	50.9	2.79
120	2	1.5	7.75	27	3.48	50.9	50.9	2.79
120	2	1.5	7.75	28	3.61	50.9	50.9	2.79
120	2	1.5	8	18	2.25	52.5	52.5	2.88
120	2	1.5	8	19	2.38	52.5	52.5	2.88
120	2	1.5	8	20	2.50	52.5	52.5	2.88
120	2	1.5	8	21	2.63	52.5	52.5	2.88
120	2	1.5	8	22	2.75	52.5	52.5	2.88
120	2	1.5	8	23	2.88	52.5	52.5	2.88
120	2	1.5	8	24	3.00	52.5	52.5	2.88
120	2	1.5	8	25	3.13	52.5	52.5	2.88
120	2	1.5	8	26	3.25	52.5	52.5	2.88
120	2	1.5	8	27	3.38	52.5	52.5	2.88
120	2	1.5	8	28	3.50	52.5	52.5	2.88
120	2	1.5	8.25	18	2.18	54.2	54.2	2.97
120	2	1.5	8.25	19	2.30	54.2	54.2	2.97
120	2	1.5	8.25	20	2.42	54.2	54.2	2.97
120	2	1.5	8.25	21	2.55	54.2	54.2	2.97
120	2	1.5	8.25	22	2.67	54.2	54.2	2.97
120	2	1.5	8.25	23	2.79	54.2	54.2	2.97
120	2	1.5	8.25	24	2.91	54.2	54.2	2.97
120	2	1.5	8.25	25	3.03	54.2	54.2	2.97
120	2	1.5	8.25	26	3.15	54.2	54.2	2.97
120	2	1.5	8.25	27	3.27	54.2	54.2	2.97
120	2	1.5	8.25	28	3.39	54.2	54.2	2.97
120	2	1.5	8.5	18	2.12	55.8	55.8	3.06
120	2	1.5	8.5	19	2.24	55.8	55.8	3.06
120	2	1.5	8.5	20	2.35	55.8	55.8	3.06
120	2	1.5	8.5	21	2.47	55.8	55.8	3.06

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	8.5	22	2.59	55.8	55.8	3.06
120	2	1.5	8.5	23	2.71	55.8	55.8	3.06
120	2	1.5	8.5	24	2.82	55.8	55.8	3.06
120	2	1.5	8.5	25	2.94	55.8	55.8	3.06
120	2	1.5	8.5	26	3.06	55.8	55.8	3.06
120	2	1.5	8.5	27	3.18	55.8	55.8	3.06
120	2	1.5	8.5	28	3.29	55.8	55.8	3.06
120	2	1.5	8.75	18	2.06	57.4	57.4	3.15
120	2	1.5	8.75	19	2.17	57.4	57.4	3.15
120	2	1.5	8.75	20	2.29	57.4	57.4	3.15
120	2	1.5	8.75	21	2.40	57.4	57.4	3.15
120	2	1.5	8.75	22	2.51	57.4	57.4	3.15
120	2	1.5	8.75	23	2.63	57.4	57.4	3.15
120	2	1.5	8.75	24	2.74	57.4	57.4	3.15
120	2	1.5	8.75	25	2.86	57.4	57.4	3.15
120	2	1.5	8.75	26	2.97	57.4	57.4	3.15
120	2	1.5	8.75	27	3.09	57.4	57.4	3.15
120	2	1.5	8.75	28	3.20	57.4	57.4	3.15
120	2	1.5	9	19	2.11	59.1	59.1	3.24
120	2	1.5	9	20	2.22	59.1	59.1	3.24
120	2	1.5	9	21	2.33	59.1	59.1	3.24
120	2	1.5	9	22	2.44	59.1	59.1	3.24
120	2	1.5	9	23	2.56	59.1	59.1	3.24
120	2	1.5	9	24	2.67	59.1	59.1	3.24
120	2	1.5	9	25	2.78	59.1	59.1	3.24
120	2	1.5	9	26	2.89	59.1	59.1	3.24
120	2	1.5	9	27	3.00	59.1	59.1	3.24
120	2	1.5	9	28	3.11	59.1	59.1	3.24
120	2	1.5	9.25	18	1.95	60.6	60.6	3.33
120	2	1.5	9.25	19	2.05	60.7	60.7	3.33
120	2	1.5	9.25	20	2.16	60.7	60.7	3.33
120	2	1.5	9.25	21	2.27	60.7	60.7	3.33
120	2	1.5	9.25	22	2.38	60.7	60.7	3.33
120	2	1.5	9.25	23	2.49	60.7	60.7	3.33
120	2	1.5	9.25	24	2.59	60.7	60.7	3.33
120	2	1.5	9.25	25	2.70	60.7	60.7	3.33
120	2	1.5	9.25	26	2.81	60.7	60.7	3.33
120	2	1.5	9.25	27	2.92	60.7	60.7	3.33
120	2	1.5	9.25	28	3.03	60.7	60.7	3.33
120	2	1.5	9.5	18	1.89	62.2	62.2	3.42
120	2	1.5	9.5	19	2.00	62.3	62.3	3.42
120	2	1.5	9.5	20	2.11	62.4	62.4	3.42

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	9.5	21	2.21	62.4	62.4	3.42
120	2	1.5	9.5	22	2.32	62.4	62.4	3.42
120	2	1.5	9.5	23	2.42	62.4	62.4	3.42
120	2	1.5	9.5	24	2.53	62.4	62.4	3.42
120	2	1.5	9.5	25	2.63	62.4	62.4	3.42
120	2	1.5	9.5	26	2.74	62.4	62.4	3.42
120	2	1.5	9.5	27	2.84	62.4	62.4	3.42
120	2	1.5	9.5	28	2.95	62.4	62.4	3.42
120	2	1.5	9.75	18	1.85	63.8	63.8	3.51
120	2	1.5	9.75	19	1.95	63.9	63.9	3.51
120	2	1.5	9.75	20	2.05	64.0	64.0	3.51
120	2	1.5	9.75	21	2.15	64.0	64.0	3.51
120	2	1.5	9.75	22	2.26	64.0	64.0	3.51
120	2	1.5	9.75	23	2.36	64.0	64.0	3.51
120	2	1.5	9.75	24	2.46	64.0	64.0	3.51
120	2	1.5	9.75	25	2.56	64.0	64.0	3.51
120	2	1.5	9.75	26	2.67	64.0	64.0	3.51
120	2	1.5	9.75	27	2.77	64.0	64.0	3.51
120	2	1.5	9.75	28	2.87	64.0	64.0	3.51
120	2	1.5	10	18	1.80	65.2	65.2	3.60
120	2	1.5	10	19	1.90	65.5	65.5	3.60
120	2	1.5	10	20	2.00	65.5	65.5	3.60
120	2	1.5	10	21	2.10	65.6	65.6	3.60
120	2	1.5	10	22	2.20	65.6	65.6	3.60
120	2	1.5	10	23	2.30	65.6	65.6	3.60
120	2	1.5	10	24	2.40	65.6	65.6	3.60
120	2	1.5	10	25	2.50	65.6	65.6	3.60
120	2	1.5	10	26	2.60	65.6	65.6	3.60
120	2	1.5	10	27	2.70	65.6	65.6	3.60
120	2	1.5	10	28	2.80	65.6	65.6	3.60
120	2	1.5	10.25	18	1.76	66.6	66.6	3.69
120	2	1.5	10.25	19	1.85	67.1	67.1	3.69
120	2	1.5	10.25	20	1.95	67.2	67.2	3.69
120	2	1.5	10.25	21	2.05	67.3	67.3	3.69
120	2	1.5	10.25	22	2.15	67.3	67.3	3.69
120	2	1.5	10.25	23	2.24	67.3	67.3	3.69
120	2	1.5	10.25	24	2.34	67.3	67.3	3.69
120	2	1.5	10.25	25	2.44	67.3	67.3	3.69
120	2	1.5	10.25	26	2.54	67.3	67.3	3.69
120	2	1.5	10.25	27	2.63	67.3	67.3	3.69
120	2	1.5	10.25	28	2.73	67.3	67.3	3.69
120	2	1.5	10.5	18	1.71	68.0	68.0	3.78

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	10.5	19	1.81	68.5	68.5	3.78
120	2	1.5	10.5	20	1.90	68.8	68.8	3.78
120	2	1.5	10.5	21	2.00	68.8	68.8	3.78
120	2	1.5	10.5	22	2.10	68.9	68.9	3.78
120	2	1.5	10.5	23	2.19	68.9	68.9	3.78
120	2	1.5	10.5	24	2.29	68.9	68.9	3.78
120	2	1.5	10.5	25	2.38	68.9	68.9	3.78
120	2	1.5	10.5	26	2.48	68.9	68.9	3.78
120	2	1.5	10.5	27	2.57	68.9	68.9	3.78
120	2	1.5	10.5	28	2.67	68.9	68.9	3.78
120	2	1.5	10.75	18	1.67	69.3	69.3	3.87
120	2	1.5	10.75	19	1.77	70.0	70.0	3.87
120	2	1.5	10.75	20	1.86	70.3	70.3	3.87
120	2	1.5	10.75	21	1.95	70.5	70.5	3.87
120	2	1.5	10.75	22	2.05	70.6	70.6	3.87
120	2	1.5	10.75	23	2.14	70.6	70.6	3.87
120	2	1.5	10.75	24	2.23	70.6	70.6	3.87
120	2	1.5	10.75	25	2.33	70.6	70.6	3.87
120	2	1.5	10.75	26	2.42	70.6	70.6	3.87
120	2	1.5	10.75	27	2.51	70.6	70.6	3.87
120	2	1.5	10.75	28	2.60	70.6	70.6	3.87
120	2	1.5	11	18	1.64	70.6	70.6	3.96
120	2	1.5	11	19	1.73	71.3	71.3	3.96
120	2	1.5	11	20	1.82	71.8	71.8	3.96
120	2	1.5	11	21	1.91	72.1	72.1	3.96
120	2	1.5	11	22	2.00	72.1	72.1	3.96
120	2	1.5	11	23	2.09	72.2	72.2	3.96
120	2	1.5	11	24	2.18	72.2	72.2	3.96
120	2	1.5	11	25	2.27	72.2	72.2	3.96
120	2	1.5	11	26	2.36	72.2	72.2	3.96
120	2	1.5	11	27	2.45	72.2	72.2	3.96
120	2	1.5	11	28	2.55	72.2	72.2	3.96
120	2	1.5	11.25	18	1.60	71.8	71.8	4.05
120	2	1.5	11.25	19	1.69	72.7	72.7	4.05
120	2	1.5	11.25	20	1.78	73.3	73.3	4.05
120	2	1.5	11.25	21	1.87	73.6	73.6	4.05
120	2	1.5	11.25	22	1.96	73.8	73.8	4.05
120	2	1.5	11.25	23	2.04	73.9	73.9	4.05
120	2	1.5	11.25	24	2.13	73.9	73.9	4.05
120	2	1.5	11.25	25	2.22	73.9	73.9	4.05
120	2	1.5	11.25	26	2.31	73.9	73.9	4.05
120	2	1.5	11.25	27	2.40	73.9	73.9	4.05

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	11.25	28	2.49	73.9	73.9	4.05
120	2	1.5	11.5	18	1.57	73.0	73.0	4.14
120	2	1.5	11.5	19	1.65	74.0	74.0	4.14
120	2	1.5	11.5	20	1.74	74.7	74.7	4.14
120	2	1.5	11.5	21	1.83	75.1	75.1	4.14
120	2	1.5	11.5	22	1.91	75.4	75.4	4.14
120	2	1.5	11.5	23	2.00	75.4	75.4	4.14
120	2	1.5	11.5	24	2.09	75.5	75.5	4.14
120	2	1.5	11.5	25	2.17	75.5	75.5	4.14
120	2	1.5	11.5	26	2.26	75.5	75.5	4.14
120	2	1.5	11.5	27	2.35	75.5	75.5	4.14
120	2	1.5	11.5	28	2.43	75.5	75.5	4.14
120	2	1.5	11.75	18	1.53	74.1	74.1	4.23
120	2	1.5	11.75	19	1.62	75.2	75.2	4.23
120	2	1.5	11.75	20	1.70	76.0	76.0	4.23
120	2	1.5	11.75	21	1.79	76.6	76.6	4.23
120	2	1.5	11.75	22	1.87	76.9	76.9	4.23
120	2	1.5	11.75	23	1.96	77.0	77.0	4.23
120	2	1.5	11.75	24	2.04	77.1	77.1	4.23
120	2	1.5	11.75	25	2.13	77.1	77.1	4.23
120	2	1.5	11.75	26	2.21	77.1	77.1	4.23
120	2	1.5	11.75	27	2.30	77.1	77.1	4.23
120	2	1.5	11.75	28	2.38	77.1	77.1	4.23
120	2	1.5	12	18	1.50	75.2	75.2	4.32
120	2	1.5	12	19	1.58	76.4	76.4	4.32
120	2	1.5	12	20	1.67	77.3	77.3	4.32
120	2	1.5	12	21	1.75	78.0	78.0	4.32
120	2	1.5	12	22	1.83	78.4	78.4	4.32
120	2	1.5	12	23	1.92	78.6	78.6	4.32
120	2	1.5	12	24	2.00	78.6	78.6	4.32
120	2	1.5	12	25	2.08	78.8	78.8	4.32
120	2	1.5	12	26	2.17	78.8	78.8	4.32
120	2	1.5	12	27	2.25	78.8	78.8	4.32
120	2	1.5	12	28	2.33	78.8	78.8	4.32
120	2	1.5	12.25	18	1.47	76.3	76.3	4.41
120	2	1.5	12.25	19	1.55	77.6	77.6	4.41
120	2	1.5	12.25	20	1.63	78.6	78.6	4.41
120	2	1.5	12.25	21	1.71	79.3	79.3	4.41
120	2	1.5	12.25	22	1.80	79.9	79.9	4.41
120	2	1.5	12.25	23	1.88	80.2	80.2	4.41
120	2	1.5	12.25	24	1.96	80.3	80.3	4.41
120	2	1.5	12.25	25	2.04	80.4	80.4	4.41

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	12.25	26	2.12	80.4	80.4	4.41
120	2	1.5	12.25	27	2.20	80.4	80.4	4.41
120	2	1.5	12.25	28	2.29	80.4	80.4	4.41
120	2	1.5	12.5	18	1.44	77.4	77.4	4.50
120	2	1.5	12.5	19	1.52	78.7	78.7	4.50
120	2	1.5	12.5	20	1.60	79.8	79.8	4.50
120	2	1.5	12.5	21	1.68	80.7	80.7	4.50
120	2	1.5	12.5	22	1.76	81.3	81.3	4.50
120	2	1.5	12.5	23	1.84	81.7	81.7	4.50
120	2	1.5	12.5	24	1.92	81.9	81.9	4.50
120	2	1.5	12.5	25	2.00	81.9	81.9	4.50
120	2	1.5	12.5	26	2.08	82.1	82.1	4.50
120	2	1.5	12.5	27	2.16	82.1	82.1	4.50
120	2	1.5	12.5	28	2.24	82.1	82.1	4.50
120	2	1.5	12.75	18	1.41	78.4	78.4	4.59
120	2	1.5	12.75	19	1.49	79.8	79.8	4.59
120	2	1.5	12.75	20	1.57	81.0	81.0	4.59
120	2	1.5	12.75	21	1.65	81.9	81.9	4.59
120	2	1.5	12.75	22	1.73	82.7	82.7	4.59
120	2	1.5	12.75	23	1.80	83.2	83.2	4.59
120	2	1.5	12.75	24	1.88	83.5	83.5	4.59
120	2	1.5	12.75	25	1.96	83.6	83.6	4.59
120	2	1.5	12.75	26	2.04	83.7	83.7	4.59
120	2	1.5	12.75	27	2.12	83.7	83.7	4.59
120	2	1.5	12.75	28	2.20	83.7	83.7	4.59
120	2	1.5	13	18	1.38	79.3	79.3	4.68
120	2	1.5	13	19	1.46	80.8	80.8	4.68
120	2	1.5	13	20	1.54	82.1	82.1	4.68
120	2	1.5	13	21	1.62	83.2	83.2	4.68
120	2	1.5	13	22	1.69	84.0	84.0	4.68
120	2	1.5	13	23	1.77	84.6	84.6	4.68
120	2	1.5	13	24	1.85	85.0	85.0	4.68
120	2	1.5	13	25	1.92	85.2	85.2	4.68
120	2	1.5	13	26	2.00	85.2	85.2	4.68
120	2	1.5	13	27	2.08	85.3	85.3	4.68
120	2	1.5	13	28	2.15	85.3	85.3	4.68
120	2	1.5	13.25	18	1.36	80.3	80.3	4.77
120	2	1.5	13.25	19	1.43	81.9	81.9	4.77
120	2	1.5	13.25	20	1.51	83.2	83.2	4.77
120	2	1.5	13.25	21	1.58	84.4	84.4	4.77
120	2	1.5	13.25	22	1.66	85.3	85.3	4.77
120	2	1.5	13.25	23	1.74	86.0	86.0	4.77

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	13.25	24	1.81	86.5	86.5	4.77
120	2	1.5	13.25	25	1.89	86.8	86.8	4.77
120	2	1.5	13.25	26	1.96	86.9	86.9	4.77
120	2	1.5	13.25	27	2.04	87.0	87.0	4.77
120	2	1.5	13.25	28	2.11	87.0	87.0	4.77
120	2	1.5	13.5	18	1.33	81.2	81.2	4.86
120	2	1.5	13.5	19	1.41	82.9	82.9	4.86
120	2	1.5	13.5	20	1.48	84.3	84.3	4.86
120	2	1.5	13.5	21	1.56	85.6	85.6	4.86
120	2	1.5	13.5	22	1.63	86.6	86.6	4.86
120	2	1.5	13.5	23	1.70	87.3	87.3	4.86
120	2	1.5	13.5	24	1.78	87.9	87.9	4.86
120	2	1.5	13.5	25	1.85	88.3	88.3	4.86
120	2	1.5	13.5	26	1.93	88.5	88.5	4.86
120	2	1.5	13.5	27	2.00	88.5	88.5	4.86
120	2	1.5	13.5	28	2.07	88.6	88.6	4.86
120	2	1.5	13.75	18	1.31	82.1	82.1	4.95
120	2	1.5	13.75	19	1.38	83.8	83.8	4.95
120	2	1.5	13.75	20	1.45	85.4	85.4	4.95
120	2	1.5	13.75	21	1.53	86.7	86.7	4.95
120	2	1.5	13.75	22	1.60	87.8	87.8	4.95
120	2	1.5	13.75	23	1.67	88.6	88.6	4.95
120	2	1.5	13.75	24	1.75	89.3	89.3	4.95
120	2	1.5	13.75	25	1.82	89.8	89.8	4.95
120	2	1.5	13.75	26	1.89	90.1	90.1	4.95
120	2	1.5	13.75	27	1.96	90.1	90.1	4.95
120	2	1.5	13.75	28	2.04	90.3	90.3	4.95
120	2	1.5	14	18	1.29	82.9	82.9	5.04
120	2	1.5	14	19	1.36	84.8	84.8	5.04
120	2	1.5	14	20	1.43	86.4	86.4	5.04
120	2	1.5	14	21	1.50	87.8	87.8	5.04
120	2	1.5	14	22	1.57	89.0	89.0	5.04
120	2	1.5	14	23	1.64	89.9	89.9	5.04
120	2	1.5	14	24	1.71	90.7	90.7	5.04
120	2	1.5	14	25	1.79	91.2	91.2	5.04
120	2	1.5	14	26	1.86	91.6	91.6	5.04
120	2	1.5	14	27	1.93	91.8	91.8	5.04
120	2	1.5	14	28	2.00	91.7	91.7	5.04
120	2	1.5	14.25	18	1.26	83.7	83.7	5.13
120	2	1.5	14.25	19	1.33	85.7	85.7	5.13
120	2	1.5	14.25	20	1.40	87.4	87.4	5.13
120	2	1.5	14.25	21	1.47	88.9	88.9	5.13

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	14.25	22	1.54	90.1	90.1	5.13
120	2	1.5	14.25	23	1.61	91.2	91.2	5.13
120	2	1.5	14.25	24	1.68	92.0	92.0	5.13
120	2	1.5	14.25	25	1.75	92.6	92.6	5.13
120	2	1.5	14.25	26	1.82	93.1	93.1	5.13
120	2	1.5	14.25	27	1.89	93.3	93.3	5.13
120	2	1.5	14.25	28	1.96	93.4	93.4	5.13
120	2	1.5	14.5	18	1.24	84.5	84.5	5.22
120	2	1.5	14.5	19	1.31	86.6	86.6	5.22
120	2	1.5	14.5	20	1.38	88.4	88.4	5.22
120	2	1.5	14.5	21	1.45	89.9	89.9	5.22
120	2	1.5	14.5	22	1.52	91.2	91.2	5.22
120	2	1.5	14.5	23	1.59	92.4	92.4	5.22
120	2	1.5	14.5	24	1.66	93.3	93.3	5.22
120	2	1.5	14.5	25	1.72	94.0	94.0	5.22
120	2	1.5	14.5	26	1.79	94.5	94.5	5.22
120	2	1.5	14.5	27	1.86	94.9	94.9	5.22
120	2	1.5	14.5	28	1.93	95.0	95.0	5.22
120	2	1.5	14.75	18	1.22	85.3	85.3	5.31
120	2	1.5	14.75	19	1.29	87.4	87.4	5.31
120	2	1.5	14.75	20	1.36	89.3	89.3	5.31
120	2	1.5	14.75	21	1.42	90.9	90.9	5.31
120	2	1.5	14.75	22	1.49	92.3	92.3	5.31
120	2	1.5	14.75	23	1.56	93.5	93.5	5.31
120	2	1.5	14.75	24	1.63	94.5	94.5	5.31
120	2	1.5	14.75	25	1.69	95.3	95.3	5.31
120	2	1.5	14.75	26	1.76	96.0	96.0	5.31
120	2	1.5	14.75	27	1.83	96.4	96.4	5.31
120	2	1.5	14.75	28	1.90	96.6	96.6	5.31
120	2	1.5	15	18	1.20	86.1	86.1	5.40
120	2	1.5	15	19	1.27	88.3	88.3	5.40
120	2	1.5	15	20	1.33	90.2	90.2	5.40
120	2	1.5	15	21	1.40	91.9	91.9	5.40
120	2	1.5	15	22	1.47	93.4	93.4	5.40
120	2	1.5	15	23	1.53	94.7	94.7	5.40
120	2	1.5	15	24	1.60	95.8	95.8	5.40
120	2	1.5	15	25	1.67	96.6	96.6	5.40
120	2	1.5	15	26	1.73	97.3	97.3	5.40
120	2	1.5	15	27	1.80	97.8	97.8	5.40
120	2	1.5	15	28	1.87	98.2	98.2	5.40
120	2	1.5	15.25	18	1.18	86.8	86.8	5.49
120	2	1.5	15.25	19	1.25	89.1	89.1	5.49

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	15.25	20	1.31	91.1	91.1	5.49
120	2	1.5	15.25	21	1.38	92.9	92.9	5.49
120	2	1.5	15.25	22	1.44	94.4	94.4	5.49
120	2	1.5	15.25	23	1.51	95.8	95.8	5.49
120	2	1.5	15.25	24	1.57	96.9	96.9	5.49
120	2	1.5	15.25	25	1.64	97.9	97.9	5.49
120	2	1.5	15.25	26	1.70	98.7	98.7	5.49
120	2	1.5	15.25	27	1.77	99.3	99.3	5.49
120	2	1.5	15.25	28	1.84	99.7	99.7	5.49
120	2	1.5	15.5	18	1.16	87.5	87.5	5.58
120	2	1.5	15.5	19	1.23	89.8	89.8	5.58
120	2	1.5	15.5	20	1.29	91.9	91.9	5.58
120	2	1.5	15.5	21	1.35	93.8	93.8	5.58
120	2	1.5	15.5	22	1.42	95.4	95.4	5.58
120	2	1.5	15.5	23	1.48	96.9	96.9	5.58
120	2	1.5	15.5	24	1.55	98.1	98.1	5.58
120	2	1.5	15.5	25	1.61	99.1	99.1	5.58
120	2	1.5	15.5	26	1.68	100.0	100.0	5.58
120	2	1.5	15.5	27	1.74	100.7	100.7	5.58
120	2	1.5	15.5	28	1.81	101.1	101.1	5.58
120	2	1.5	15.75	18	1.14	88.2	88.2	5.67
120	2	1.5	15.75	19	1.21	90.6	90.6	5.67
120	2	1.5	15.75	20	1.27	92.8	92.8	5.67
120	2	1.5	15.75	21	1.33	94.7	94.7	5.67
120	2	1.5	15.75	22	1.40	96.4	96.4	5.67
120	2	1.5	15.75	23	1.46	97.9	97.9	5.67
120	2	1.5	15.75	24	1.52	99.2	99.2	5.67
120	2	1.5	15.75	25	1.59	100.3	100.3	5.67
120	2	1.5	15.75	26	1.65	101.3	101.3	5.67
120	2	1.5	15.75	27	1.71	102.0	102.0	5.67
120	2	1.5	15.75	28	1.78	102.6	102.6	5.67
120	2	1.5	16	18	1.13	88.8	88.8	5.76
120	2	1.5	16	19	1.19	91.3	91.3	5.76
120	2	1.5	16	20	1.25	93.6	93.6	5.76
120	2	1.5	16	21	1.31	95.6	95.6	5.76
120	2	1.5	16	22	1.38	97.4	97.4	5.76
120	2	1.5	16	23	1.44	99.0	99.0	5.76
120	2	1.5	16	24	1.50	100.3	100.3	5.76
120	2	1.5	16	25	1.56	101.5	101.5	5.76
120	2	1.5	16	26	1.63	102.5	102.5	5.76
120	2	1.5	16	27	1.69	103.3	103.3	5.76
120	2	1.5	16	28	1.75	104.0	104.0	5.76

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	16.25	18	1.11	89.5	89.5	5.85
120	2	1.5	16.25	19	1.17	92.1	92.1	5.85
120	2	1.5	16.25	20	1.23	94.4	94.4	5.85
120	2	1.5	16.25	21	1.29	96.5	96.5	5.85
120	2	1.5	16.25	22	1.35	98.3	98.3	5.85
120	2	1.5	16.25	23	1.42	100.0	100.0	5.85
120	2	1.5	16.25	24	1.48	101.4	101.4	5.85
120	2	1.5	16.25	25	1.54	102.7	102.7	5.85
120	2	1.5	16.25	26	1.60	103.7	103.7	5.85
120	2	1.5	16.25	27	1.66	104.6	104.6	5.85
120	2	1.5	16.25	28	1.72	105.3	105.3	5.85
120	2	1.5	16.5	18	1.09	90.1	90.1	5.94
120	2	1.5	16.5	19	1.15	92.7	92.7	5.94
120	2	1.5	16.5	20	1.21	95.1	95.1	5.94
120	2	1.5	16.5	21	1.27	97.3	97.3	5.94
120	2	1.5	16.5	22	1.33	99.2	99.2	5.94
120	2	1.5	16.5	23	1.39	100.9	100.9	5.94
120	2	1.5	16.5	24	1.45	102.5	102.5	5.94
120	2	1.5	16.5	25	1.52	103.8	103.8	5.94
120	2	1.5	16.5	26	1.58	104.9	104.9	5.94
120	2	1.5	16.5	27	1.64	105.9	105.9	5.94
120	2	1.5	16.5	28	1.70	106.7	106.7	5.94
120	2	1.5	16.75	18	1.07	90.7	90.7	6.03
120	2	1.5	16.75	19	1.13	93.4	93.4	6.03
120	2	1.5	16.75	20	1.19	95.9	95.9	6.03
120	2	1.5	16.75	21	1.25	98.1	98.1	6.03
120	2	1.5	16.75	22	1.31	100.1	100.1	6.03
120	2	1.5	16.75	23	1.37	101.9	101.9	6.03
120	2	1.5	16.75	24	1.43	103.5	103.5	6.03
120	2	1.5	16.75	25	1.49	104.9	104.9	6.03
120	2	1.5	16.75	26	1.55	106.1	106.1	6.03
120	2	1.5	16.75	27	1.61	107.1	107.1	6.03
120	2	1.5	16.75	28	1.67	108.0	108.0	6.03
120	2	1.5	17	18	1.06	91.3	91.3	6.12
120	2	1.5	17	19	1.12	94.1	94.1	6.12
120	2	1.5	17	20	1.18	96.6	96.6	6.12
120	2	1.5	17	21	1.24	98.9	98.9	6.12
120	2	1.5	17	22	1.29	101.0	101.0	6.12
120	2	1.5	17	23	1.35	102.8	102.8	6.12
120	2	1.5	17	24	1.41	104.5	104.5	6.12
120	2	1.5	17	25	1.47	105.9	105.9	6.12
120	2	1.5	17	26	1.53	107.2	107.2	6.12

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	17	27	1.59	108.3	108.3	6.12
120	2	1.5	17	28	1.65	109.3	109.3	6.12
120	2	1.5	17.25	18	1.04	91.8	91.8	6.21
120	2	1.5	17.25	19	1.10	94.7	94.7	6.21
120	2	1.5	17.25	20	1.16	97.3	97.3	6.21
120	2	1.5	17.25	21	1.22	99.7	99.7	6.21
120	2	1.5	17.25	22	1.28	101.8	101.8	6.21
120	2	1.5	17.25	23	1.33	103.7	103.7	6.21
120	2	1.5	17.25	24	1.39	105.5	105.5	6.21
120	2	1.5	17.25	25	1.45	107.0	107.0	6.21
120	2	1.5	17.25	26	1.51	108.3	108.3	6.21
120	2	1.5	17.25	27	1.57	109.5	109.5	6.21
120	2	1.5	17.25	28	1.62	110.5	110.5	6.21
120	2	1.5	17.5	18	1.03	92.4	92.4	6.30
120	2	1.5	17.5	19	1.09	95.3	95.3	6.30
120	2	1.5	17.5	20	1.14	98.0	98.0	6.30
120	2	1.5	17.5	21	1.20	100.4	100.4	6.30
120	2	1.5	17.5	22	1.26	102.6	102.6	6.30
120	2	1.5	17.5	23	1.31	104.6	104.6	6.30
120	2	1.5	17.5	24	1.37	106.4	106.4	6.30
120	2	1.5	17.5	25	1.43	108.0	108.0	6.30
120	2	1.5	17.5	26	1.49	109.4	109.4	6.30
120	2	1.5	17.5	27	1.54	110.6	110.6	6.30
120	2	1.5	17.5	28	1.60	111.7	111.7	6.30
120	2	1.5	17.75	18	1.01	92.9	92.9	6.39
120	2	1.5	17.75	19	1.07	95.9	95.9	6.39
120	2	1.5	17.75	20	1.13	98.6	98.6	6.39
120	2	1.5	17.75	21	1.18	101.1	101.1	6.39
120	2	1.5	17.75	22	1.24	103.4	103.4	6.39
120	2	1.5	17.75	23	1.30	105.5	105.5	6.39
120	2	1.5	17.75	24	1.35	107.3	107.3	6.39
120	2	1.5	17.75	25	1.41	109.0	109.0	6.39
120	2	1.5	17.75	26	1.46	110.5	110.5	6.39
120	2	1.5	17.75	27	1.52	111.8	111.8	6.39
120	2	1.5	17.75	28	1.58	112.9	112.9	6.39
120	2	1.5	18	18	1.00	93.4	93.4	6.48
120	2	1.5	18	19	1.06	96.5	96.5	6.48
120	2	1.5	18	20	1.11	99.3	99.3	6.48
120	2	1.5	18	21	1.17	101.9	101.9	6.48
120	2	1.5	18	22	1.22	104.2	104.2	6.48
120	2	1.5	18	23	1.28	106.3	106.3	6.48
120	2	1.5	18	24	1.33	108.2	108.2	6.48

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120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	18	25	1.39	110.0	110.0	6.48
120	2	1.5	18	26	1.44	111.5	111.5	6.48
120	2	1.5	18	27	1.50	112.9	112.9	6.48
120	2	1.5	18	28	1.56	114.1	114.1	6.48
120	2	1.5	18.25	18	1.01	95.5	95.5	6.57
120	2	1.5	18.25	19	1.04	97.0	97.0	6.57
120	2	1.5	18.25	20	1.10	99.9	99.9	6.57
120	2	1.5	18.25	21	1.15	102.5	102.5	6.57
120	2	1.5	18.25	22	1.21	105.0	105.0	6.57
120	2	1.5	18.25	23	1.26	107.1	107.1	6.57
120	2	1.5	18.25	24	1.32	109.1	109.1	6.57
120	2	1.5	18.25	25	1.37	110.9	110.9	6.57
120	2	1.5	18.25	26	1.42	112.5	112.5	6.57
120	2	1.5	18.25	27	1.48	113.9	113.9	6.57
120	2	1.5	18.25	28	1.53	115.2	115.2	6.57
120	2	1.5	18.5	18	1.03	97.6	97.6	6.66
120	2	1.5	18.5	19	1.03	97.5	97.5	6.66
120	2	1.5	18.5	20	1.08	100.5	100.5	6.66
120	2	1.5	18.5	21	1.14	103.2	103.2	6.66
120	2	1.5	18.5	22	1.19	105.7	105.7	6.66
120	2	1.5	18.5	23	1.24	107.9	107.9	6.66
120	2	1.5	18.5	24	1.30	110.0	110.0	6.66
120	2	1.5	18.5	25	1.35	111.8	111.8	6.66
120	2	1.5	18.5	26	1.41	113.5	113.5	6.66
120	2	1.5	18.5	27	1.46	115.0	115.0	6.66
120	2	1.5	18.5	28	1.51	116.3	116.3	6.66
120	2	1.5	18.75	18	1.04	99.7	99.7	6.75
120	2	1.5	18.75	19	1.01	98.1	98.1	6.75
120	2	1.5	18.75	20	1.07	101.1	101.1	6.75
120	2	1.5	18.75	21	1.12	103.9	103.9	6.75
120	2	1.5	18.75	22	1.17	106.4	106.4	6.75
120	2	1.5	18.75	23	1.23	108.7	108.7	6.75
120	2	1.5	18.75	24	1.28	110.8	110.8	6.75
120	2	1.5	18.75	25	1.33	112.7	112.7	6.75
120	2	1.5	18.75	26	1.39	114.5	114.5	6.75
120	2	1.5	18.75	27	1.44	116.0	116.0	6.75
120	2	1.5	18.75	28	1.49	117.4	117.4	6.75
120	2	1.5	19	18	1.06	101.8	101.8	6.84
120	2	1.5	19	19	1.00	98.6	98.6	6.84
120	2	1.5	19	20	1.05	101.7	101.7	6.84
120	2	1.5	19	21	1.11	104.5	104.5	6.84
120	2	1.5	19	22	1.16	107.1	107.1	6.84

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120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	19	23	1.21	109.5	109.5	6.84
120	2	1.5	19	24	1.26	111.7	111.7	6.84
120	2	1.5	19	25	1.32	113.6	113.6	6.84
120	2	1.5	19	26	1.37	115.4	115.4	6.84
120	2	1.5	19	27	1.42	117.0	117.0	6.84
120	2	1.5	19	28	1.47	118.5	118.5	6.84
120	2	1.5	19.25	18	1.07	103.9	103.9	6.93
120	2	1.5	19.25	19	1.01	100.7	100.7	6.93
120	2	1.5	19.25	20	1.04	102.2	102.2	6.93
120	2	1.5	19.25	21	1.09	105.1	105.1	6.93
120	2	1.5	19.25	22	1.14	107.8	107.8	6.93
120	2	1.5	19.25	23	1.19	110.2	110.2	6.93
120	2	1.5	19.25	24	1.25	112.5	112.5	6.93
120	2	1.5	19.25	25	1.30	114.5	114.5	6.93
120	2	1.5	19.25	26	1.35	116.4	116.4	6.93
120	2	1.5	19.25	27	1.40	118.0	118.0	6.93
120	2	1.5	19.25	28	1.45	119.5	119.5	6.93
120	2	1.5	19.5	18	1.08	106.1	106.1	7.02
120	2	1.5	19.5	19	1.03	102.8	102.8	7.02
120	2	1.5	19.5	20	1.03	102.7	102.7	7.02
120	2	1.5	19.5	21	1.08	105.7	105.7	7.02
120	2	1.5	19.5	22	1.13	108.4	108.4	7.02
120	2	1.5	19.5	23	1.18	111.0	111.0	7.02
120	2	1.5	19.5	24	1.23	113.2	113.2	7.02
120	2	1.5	19.5	25	1.28	115.3	115.3	7.02
120	2	1.5	19.5	26	1.33	117.3	117.3	7.02
120	2	1.5	19.5	27	1.38	119.0	119.0	7.02
120	2	1.5	19.5	28	1.44	120.6	120.6	7.02
120	2	1.5	19.75	18	1.10	108.2	108.2	7.11
120	2	1.5	19.75	19	1.04	104.9	104.9	7.11
120	2	1.5	19.75	20	1.01	103.2	103.2	7.11
120	2	1.5	19.75	21	1.06	106.3	106.3	7.11
120	2	1.5	19.75	22	1.11	109.1	109.1	7.11
120	2	1.5	19.75	23	1.16	111.7	111.7	7.11
120	2	1.5	19.75	24	1.22	114.0	114.0	7.11
120	2	1.5	19.75	25	1.27	116.2	116.2	7.11
120	2	1.5	19.75	26	1.32	118.1	118.1	7.11
120	2	1.5	19.75	27	1.37	119.9	119.9	7.11
120	2	1.5	19.75	28	1.42	121.6	121.6	7.11
120	2	1.5	20	18	1.11	99.3	99.3	7.20
120	2	1.5	20	19	1.05	101.7	101.7	7.20
120	2	1.5	20	20	1.00	103.7	103.7	7.20

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120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	20	21	1.05	106.8	106.8	7.20
120	2	1.5	20	22	1.10	109.7	109.7	7.20
120	2	1.5	20	23	1.15	112.3	112.3	7.20
120	2	1.5	20	24	1.20	114.8	114.8	7.20
120	2	1.5	20	25	1.25	117.0	117.0	7.20
120	2	1.5	20	26	1.30	119.0	119.0	7.20
120	2	1.5	20	27	1.35	120.9	120.9	7.20
120	2	1.5	20	28	1.40	122.5	122.5	7.20
120	2	1.5	20.25	18	1.13	112.4	112.4	7.29
120	2	1.5	20.25	19	1.07	109.1	109.1	7.29
120	2	1.5	20.25	20	1.01	105.8	105.8	7.29
120	2	1.5	20.25	21	1.04	107.4	107.4	7.29
120	2	1.5	20.25	22	1.09	110.3	110.3	7.29
120	2	1.5	20.25	23	1.14	113.0	113.0	7.29
120	2	1.5	20.25	24	1.19	115.5	115.5	7.29
120	2	1.5	20.25	25	1.23	117.8	117.8	7.29
120	2	1.5	20.25	26	1.28	119.9	119.9	7.29
120	2	1.5	20.25	27	1.33	121.8	121.8	7.29
120	2	1.5	20.25	28	1.38	123.5	123.5	7.29
120	2	1.5	20.5	18	1.14	100.6	100.6	7.38
120	2	1.5	20.5	19	1.08	103.1	103.1	7.38
120	2	1.5	20.5	20	1.03	105.3	105.3	7.38
120	2	1.5	20.5	21	1.02	107.9	107.9	7.38
120	2	1.5	20.5	22	1.07	110.9	110.9	7.38
120	2	1.5	20.5	23	1.12	113.7	113.7	7.38
120	2	1.5	20.5	24	1.17	116.2	116.2	7.38
120	2	1.5	20.5	25	1.22	118.5	118.5	7.38
120	2	1.5	20.5	26	1.27	120.7	120.7	7.38
120	2	1.5	20.5	27	1.32	122.7	122.7	7.38
120	2	1.5	20.5	28	1.37	124.4	124.4	7.38
120	2	1.5	20.75	18	1.15	101.2	101.2	7.47
120	2	1.5	20.75	19	1.09	103.8	103.8	7.47
120	2	1.5	20.75	20	1.04	106.1	106.1	7.47
120	2	1.5	20.75	21	1.01	108.4	108.4	7.47
120	2	1.5	20.75	22	1.06	118.2	118.2	7.47
120	2	1.5	20.75	23	1.11	114.3	114.3	7.47
120	2	1.5	20.75	24	1.16	116.9	116.9	7.47
120	2	1.5	20.75	25	1.20	119.3	119.3	7.47
120	2	1.5	20.75	26	1.25	121.5	121.5	7.47
120	2	1.5	20.75	27	1.30	123.5	123.5	7.47
120	2	1.5	20.75	28	1.35	125.4	125.4	7.47
120	2	1.5	21	18	1.17	101.9	101.9	7.56

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120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	21	19	1.11	104.5	104.5	7.56
120	2	1.5	21	20	1.05	106.8	106.8	7.56
120	2	1.5	21	21	1.00	108.9	108.9	7.56
120	2	1.5	21	22	1.05	112.0	112.0	7.56
120	2	1.5	21	23	1.10	114.9	114.9	7.56
120	2	1.5	21	24	1.14	117.6	117.6	7.56
120	2	1.5	21	25	1.19	120.0	120.0	7.56
120	2	1.5	21	26	1.24	122.3	122.3	7.56
120	2	1.5	21	27	1.29	124.4	124.4	7.56
120	2	1.5	21	28	1.33	126.3	126.3	7.56
120	2	1.5	21.25	18	1.18	102.5	102.5	7.65
120	2	1.5	21.25	19	1.12	105.2	105.2	7.65
120	2	1.5	21.25	20	1.06	107.6	107.6	7.65
120	2	1.5	21.25	21	1.01	109.7	109.7	7.65
120	2	1.5	21.25	22	1.04	112.6	112.6	7.65
120	2	1.5	21.25	23	1.08	115.5	115.5	7.65
120	2	1.5	21.25	24	1.13	118.2	118.2	7.65
120	2	1.5	21.25	25	1.18	120.8	120.8	7.65
120	2	1.5	21.25	26	1.22	123.1	123.1	7.65
120	2	1.5	21.25	27	1.27	125.2	125.2	7.65
120	2	1.5	21.25	28	1.32	127.2	127.2	7.65
120	2	1.5	21.5	18	1.19	103.1	103.1	7.74
120	2	1.5	21.5	19	1.13	105.8	105.8	7.74
120	2	1.5	21.5	20	1.08	108.3	108.3	7.74
120	2	1.5	21.5	21	1.02	110.5	110.5	7.74
120	2	1.5	21.5	22	1.02	113.1	113.1	7.74
120	2	1.5	21.5	23	1.07	116.1	116.1	7.74
120	2	1.5	21.5	24	1.12	118.9	118.9	7.74
120	2	1.5	21.5	25	1.16	121.5	121.5	7.74
120	2	1.5	21.5	26	1.21	123.8	123.8	7.74
120	2	1.5	21.5	27	1.26	126.0	126.0	7.74
120	2	1.5	21.5	28	1.30	128.0	128.0	7.74
120	2	1.5	21.75	18	1.21	103.6	103.6	7.83
120	2	1.5	21.75	19	1.14	106.5	106.5	7.83
120	2	1.5	21.75	20	1.09	109.0	109.0	7.83
120	2	1.5	21.75	21	1.04	111.3	111.3	7.83
120	2	1.5	21.75	22	1.01	113.6	113.6	7.83
120	2	1.5	21.75	23	1.06	116.7	116.7	7.83
120	2	1.5	21.75	24	1.10	119.5	119.5	7.83
120	2	1.5	21.75	25	1.15	122.1	122.1	7.83
120	2	1.5	21.75	26	1.20	124.6	124.6	7.83
120	2	1.5	21.75	27	1.24	126.8	126.8	7.83

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120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	21.75	28	1.29	128.9	128.9	7.83
120	2	1.5	22	18	1.22	104.2	104.2	7.92
120	2	1.5	22	19	1.16	107.1	107.1	7.92
120	2	1.5	22	20	1.10	109.7	109.7	7.92
120	2	1.5	22	21	1.05	112.0	112.0	7.92
120	2	1.5	22	22	1.00	114.1	114.1	7.92
120	2	1.5	22	23	1.05	117.2	117.2	7.92
120	2	1.5	22	24	1.09	120.1	120.1	7.92
120	2	1.5	22	25	1.14	122.8	122.8	7.92
120	2	1.5	22	26	1.18	125.3	125.3	7.92
120	2	1.5	22	27	1.23	127.6	127.6	7.92
120	2	1.5	22	28	1.27	129.7	129.7	7.92
120	2	1.5	22.25	18	1.24	104.7	104.7	8.01
120	2	1.5	22.25	19	1.17	107.7	107.7	8.01
120	2	1.5	22.25	20	1.11	110.4	110.4	8.01
120	2	1.5	22.25	21	1.06	112.8	112.8	8.01
120	2	1.5	22.25	22	1.01	114.9	114.9	8.01
120	2	1.5	22.25	23	1.03	117.8	117.8	8.01
120	2	1.5	22.25	24	1.08	120.7	120.7	8.01
120	2	1.5	22.25	25	1.12	123.5	123.5	8.01
120	2	1.5	22.25	26	1.17	126.0	126.0	8.01
120	2	1.5	22.25	27	1.21	128.4	128.4	8.01
120	2	1.5	22.25	28	1.26	130.5	130.5	8.01
120	2	1.5	22.5	18	1.25	105.3	105.3	8.10
120	2	1.5	22.5	19	1.18	108.3	108.3	8.10
120	2	1.5	22.5	20	1.13	111.1	111.1	8.10
120	2	1.5	22.5	21	1.07	113.5	113.5	8.10
120	2	1.5	22.5	22	1.02	115.7	115.7	8.10
120	2	1.5	22.5	23	1.02	118.3	118.3	8.10
120	2	1.5	22.5	24	1.07	121.3	121.3	8.10
120	2	1.5	22.5	25	1.11	124.1	124.1	8.10
120	2	1.5	22.5	26	1.16	126.7	126.7	8.10
120	2	1.5	22.5	27	1.20	129.1	129.1	8.10
120	2	1.5	22.5	28	1.24	131.3	131.3	8.10
120	2	1.5	22.75	18	1.26	105.8	105.8	8.19
120	2	1.5	22.75	19	1.20	108.9	108.9	8.19
120	2	1.5	22.75	20	1.14	111.7	111.7	8.19
120	2	1.5	22.75	21	1.08	114.2	114.2	8.19
120	2	1.5	22.75	22	1.03	116.5	116.5	8.19
120	2	1.5	22.75	23	1.01	118.8	118.8	8.19
120	2	1.5	22.75	24	1.05	121.9	121.9	8.19
120	2	1.5	22.75	25	1.10	124.7	124.7	8.19

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120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	22.75	26	1.14	127.4	127.4	8.19
120	2	1.5	22.75	27	1.19	129.8	129.8	8.19
120	2	1.5	22.75	28	1.23	132.1	132.1	8.19
120	2	1.5	23	18	1.28	106.3	106.3	8.28
120	2	1.5	23	19	1.21	109.5	109.5	8.28
120	2	1.5	23	20	1.15	112.3	112.3	8.28
120	2	1.5	23	21	1.10	114.9	114.9	8.28
120	2	1.5	23	22	1.05	117.2	117.2	8.28
120	2	1.5	23	23	1.00	119.3	119.3	8.28
120	2	1.5	23	24	1.04	122.4	122.4	8.28
120	2	1.5	23	25	1.09	125.3	125.3	8.28
120	2	1.5	23	26	1.13	128.0	128.0	8.28
120	2	1.5	23	27	1.17	130.6	130.6	8.28
120	2	1.5	23	28	1.22	132.9	132.9	8.28
120	2	1.5	23.25	18	1.29	106.8	106.8	8.37
120	2	1.5	23.25	19	1.22	110.0	110.0	8.37
120	2	1.5	23.25	20	1.16	113.0	113.0	8.37
120	2	1.5	23.25	21	1.11	128.0	128.0	8.37
120	2	1.5	23.25	22	1.06	118.0	118.0	8.37
120	2	1.5	23.25	23	1.01	120.1	120.1	8.37
120	2	1.5	23.25	24	1.03	123.0	123.0	8.37
120	2	1.5	23.25	25	1.08	125.9	125.9	8.37
120	2	1.5	23.25	26	1.12	128.7	128.7	8.37
120	2	1.5	23.25	27	1.16	131.3	131.3	8.37
120	2	1.5	23.25	28	1.20	133.6	133.6	8.37
120	2	1.5	23.5	18	1.31	107.3	107.3	8.46
120	2	1.5	23.5	19	1.24	110.6	110.6	8.46
120	2	1.5	23.5	20	1.18	113.6	113.6	8.46
120	2	1.5	23.5	21	1.12	116.3	116.3	8.46
120	2	1.5	23.5	22	1.07	118.7	118.7	8.46
120	2	1.5	23.5	23	1.02	120.9	120.9	8.46
120	2	1.5	23.5	24	1.02	123.5	123.5	8.46
120	2	1.5	23.5	25	1.06	126.5	126.5	8.46
120	2	1.5	23.5	26	1.11	129.3	129.3	8.46
120	2	1.5	23.5	27	1.15	131.9	131.9	8.46
120	2	1.5	23.5	28	1.19	134.4	134.4	8.46
120	2	1.5	23.75	18	1.32	107.8	107.8	8.55
120	2	1.5	23.75	19	1.25	111.1	111.1	8.55
120	2	1.5	23.75	20	1.19	114.2	114.2	8.55
120	2	1.5	23.75	21	1.13	116.9	116.9	8.55
120	2	1.5	23.75	22	1.08	119.4	119.4	8.55
120	2	1.5	23.75	23	1.03	121.7	121.7	8.55

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	23.75	24	1.01	124.0	124.0	8.55
120	2	1.5	23.75	25	1.05	127.1	127.1	8.55
120	2	1.5	23.75	26	1.09	129.9	129.9	8.55
120	2	1.5	23.75	27	1.14	132.6	132.6	8.55
120	2	1.5	23.75	28	1.18	135.1	135.1	8.55
120	2	1.5	24	18	1.33	108.2	108.2	8.64
120	2	1.5	24	19	1.26	111.7	111.7	8.64
120	2	1.5	24	20	1.20	114.8	114.8	8.64
120	2	1.5	24	21	1.14	117.6	117.6	8.64
120	2	1.5	24	22	1.09	120.1	120.1	8.64
120	2	1.5	24	23	1.04	122.4	122.4	8.64
120	2	1.5	24	24	1.00	124.5	124.5	8.64
120	2	1.5	24	25	1.04	127.6	127.6	8.64
120	2	1.5	24	26	1.08	130.5	130.5	8.64
120	2	1.5	24	27	1.13	133.3	133.3	8.64
120	2	1.5	24	28	1.17	135.8	135.8	8.64
120	2	1.5	24.25	18	1.35	108.7	108.7	8.73
120	2	1.5	24.25	19	1.28	112.2	112.2	8.73
120	2	1.5	24.25	20	1.21	115.3	115.3	8.73
120	2	1.5	24.25	21	1.15	118.2	118.2	8.73
120	2	1.5	24.25	22	1.10	120.8	120.8	8.73
120	2	1.5	24.25	23	1.05	123.2	123.2	8.73
120	2	1.5	24.25	24	1.01	125.3	125.3	8.73
120	2	1.5	24.25	25	1.03	128.2	128.2	8.73
120	2	1.5	24.25	26	1.07	131.1	131.1	8.73
120	2	1.5	24.25	27	1.11	133.9	133.9	8.73
120	2	1.5	24.25	28	1.15	136.5	136.5	8.73
120	2	1.5	24.5	18	1.36	109.1	109.1	8.82
120	2	1.5	24.5	19	1.29	112.7	112.7	8.82
120	2	1.5	24.5	20	1.23	115.9	115.9	8.82
120	2	1.5	24.5	21	1.17	118.8	118.8	8.82
120	2	1.5	24.5	22	1.11	121.5	121.5	8.82
120	2	1.5	24.5	23	1.07	123.9	123.9	8.82
120	2	1.5	24.5	24	1.02	126.1	126.1	8.82
120	2	1.5	24.5	25	1.02	128.7	128.7	8.82
120	2	1.5	24.5	26	1.06	131.7	131.7	8.82
120	2	1.5	24.5	27	1.10	134.5	134.5	8.82
120	2	1.5	24.5	28	1.14	137.2	137.2	8.82
120	2	1.5	24.75	18	1.38	109.6	109.6	8.91
120	2	1.5	24.75	19	1.30	113.2	113.2	8.91
120	2	1.5	24.75	20	1.24	116.4	116.4	8.91
120	2	1.5	24.75	21	1.18	119.4	119.4	8.91

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	24.75	22	1.13	122.2	122.2	8.91
120	2	1.5	24.75	23	1.08	124.6	124.6	8.91
120	2	1.5	24.75	24	1.03	126.9	126.9	8.91
120	2	1.5	24.75	25	1.01	129.2	129.2	8.91
120	2	1.5	24.75	26	1.05	132.3	132.3	8.91
120	2	1.5	24.75	27	1.09	135.1	135.1	8.91
120	2	1.5	24.75	28	1.13	137.8	137.8	8.91
120	2	1.5	25	18	1.39	110.0	110.0	9.00
120	2	1.5	25	19	1.32	113.6	113.6	9.00
120	2	1.5	25	20	1.25	117.0	117.0	9.00
120	2	1.5	25	21	1.19	120.0	120.0	9.00
120	2	1.5	25	22	1.14	122.8	122.8	9.00
120	2	1.5	25	23	1.09	125.3	125.3	9.00
120	2	1.5	25	24	1.04	127.6	127.6	9.00
120	2	1.5	25	25	1.00	129.7	129.7	9.00
120	2	1.5	25	26	1.04	132.8	132.8	9.00
120	2	1.5	25	27	1.08	135.7	135.7	9.00
120	2	1.5	25	28	1.12	138.5	138.5	9.00
120	2	1.5	25.25	18	1.40	110.4	110.4	9.09
120	2	1.5	25.25	19	1.33	114.1	114.1	9.09
120	2	1.5	25.25	20	1.26	117.5	117.5	9.09
120	2	1.5	25.25	21	1.20	120.6	120.6	9.09
120	2	1.5	25.25	22	1.15	123.5	123.5	9.09
120	2	1.5	25.25	23	1.10	126.0	126.0	9.09
120	2	1.5	25.25	24	1.05	128.4	128.4	9.09
120	2	1.5	25.25	25	1.01	130.5	130.5	9.09
120	2	1.5	25.25	26	1.03	133.3	133.3	9.09
120	2	1.5	25.25	27	1.07	136.3	136.3	9.09
120	2	1.5	25.25	28	1.11	139.1	139.1	9.09
120	2	1.5	25.5	18	1.42	110.8	110.8	9.18
120	2	1.5	25.5	19	1.34	114.6	114.6	9.18
120	2	1.5	25.5	20	1.28	118.0	118.0	9.18
120	2	1.5	25.5	21	1.21	121.2	121.2	9.18
120	2	1.5	25.5	22	1.16	124.1	124.1	9.18
120	2	1.5	25.5	23	1.11	126.7	126.7	9.18
120	2	1.5	25.5	24	1.06	129.1	129.1	9.18
120	2	1.5	25.5	25	1.02	131.3	131.3	9.18
120	2	1.5	25.5	26	1.02	133.9	133.9	9.18
120	2	1.5	25.5	27	1.06	136.9	136.9	9.18
120	2	1.5	25.5	28	1.10	139.7	139.7	9.18
120	2	1.5	25.75	18	1.43	111.1	111.1	9.27
120	2	1.5	25.75	19	1.36	115.0	115.0	9.27

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	25.75	20	1.29	118.5	118.5	9.27
120	2	1.5	25.75	21	1.23	121.7	121.7	9.27
120	2	1.5	25.75	22	1.17	124.7	124.7	9.27
120	2	1.5	25.75	23	1.12	127.4	127.4	9.27
120	2	1.5	25.75	24	1.07	129.8	129.8	9.27
120	2	1.5	25.75	25	1.03	132.0	132.0	9.27
120	2	1.5	25.75	26	1.01	134.4	134.4	9.27
120	2	1.5	25.75	27	1.05	137.5	137.5	9.27
120	2	1.5	25.75	28	1.09	140.4	140.4	9.27
120	2	1.5	26	18	1.44	111.5	111.5	9.36
120	2	1.5	26	19	1.37	115.4	115.4	9.36
120	2	1.5	26	20	1.30	119.0	119.0	9.36
120	2	1.5	26	21	1.24	122.3	122.3	9.36
120	2	1.5	26	22	1.18	125.3	125.3	9.36
120	2	1.5	26	23	1.13	128.0	128.0	9.36
120	2	1.5	26	24	1.08	130.5	130.5	9.36
120	2	1.5	26	25	1.04	132.8	132.8	9.36
120	2	1.5	26	26	1.00	134.9	134.9	9.36
120	2	1.5	26	27	1.04	138.0	138.0	9.36
120	2	1.5	26	28	1.08	140.9	140.9	9.36
120	2	1.5	26.25	18	1.46	111.9	111.9	9.45
120	2	1.5	26.25	19	1.38	115.8	115.8	9.45
120	2	1.5	26.25	20	1.31	119.5	119.5	9.45
120	2	1.5	26.25	21	1.25	122.8	122.8	9.45
120	2	1.5	26.25	22	1.19	125.9	125.9	9.45
120	2	1.5	26.25	23	1.14	128.7	128.7	9.45
120	2	1.5	26.25	24	1.09	131.2	131.2	9.45
120	2	1.5	26.25	25	1.05	133.6	133.6	9.45
120	2	1.5	26.25	26	1.01	135.7	135.7	9.45
120	2	1.5	26.25	27	1.03	138.5	138.5	9.45
120	2	1.5	26.25	28	1.07	141.5	141.5	9.45
120	2	1.5	26.5	18	1.47	112.2	112.2	9.54
120	2	1.5	26.5	19	1.39	116.3	116.3	9.54
120	2	1.5	26.5	20	1.33	120.0	120.0	9.54
120	2	1.5	26.5	21	1.26	123.4	123.4	9.54
120	2	1.5	26.5	22	1.20	126.5	126.5	9.54
120	2	1.5	26.5	23	1.15	129.3	129.3	9.54
120	2	1.5	26.5	24	1.10	131.9	131.9	9.54
120	2	1.5	26.5	25	1.06	134.3	134.3	9.54
120	2	1.5	26.5	26	1.02	136.5	136.5	9.54
120	2	1.5	26.5	27	1.02	139.0	139.0	9.54
120	2	1.5	26.5	28	1.06	142.1	142.1	9.54

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	26.75	18	1.49	112.5	112.5	9.63
120	2	1.5	26.75	19	1.41	116.7	116.7	9.63
120	2	1.5	26.75	20	1.34	120.4	120.4	9.63
120	2	1.5	26.75	21	1.27	123.9	123.9	9.63
120	2	1.5	26.75	22	1.22	127.0	127.0	9.63
120	2	1.5	26.75	23	1.16	129.9	129.9	9.63
120	2	1.5	26.75	24	1.11	132.6	132.6	9.63
120	2	1.5	26.75	25	1.07	135.0	135.0	9.63
120	2	1.5	26.75	26	1.03	137.2	137.2	9.63
120	2	1.5	26.75	27	1.01	139.6	139.6	9.63
120	2	1.5	26.75	28	1.05	142.6	142.6	9.63
120	2	1.5	27	18	1.50	112.9	112.9	9.72
120	2	1.5	27	19	1.42	117.0	117.0	9.72
120	2	1.5	27	20	1.35	120.9	120.9	9.72
120	2	1.5	27	21	1.29	124.4	124.4	9.72
120	2	1.5	27	22	1.23	127.6	127.6	9.72
120	2	1.5	27	23	1.17	130.6	130.6	9.72
120	2	1.5	27	24	1.13	133.3	133.3	9.72
120	2	1.5	27	25	1.08	135.7	135.7	9.72
120	2	1.5	27	26	1.04	138.0	138.0	9.72
120	2	1.5	27	27	1.00	140.0	140.0	9.72
120	2	1.5	27	28	1.04	143.2	143.2	9.72
120	2	1.5	27.25	18	1.51	113.2	113.2	9.81
120	2	1.5	27.25	19	1.43	117.4	117.4	9.81
120	2	1.5	27.25	20	1.36	121.3	121.3	9.81
120	2	1.5	27.25	21	1.30	124.9	124.9	9.81
120	2	1.5	27.25	22	1.24	128.1	128.1	9.81
120	2	1.5	27.25	23	1.18	131.2	131.2	9.81
120	2	1.5	27.25	24	1.14	133.9	133.9	9.81
120	2	1.5	27.25	25	1.09	136.4	136.4	9.81
120	2	1.5	27.25	26	1.05	138.8	138.8	9.81
120	2	1.5	27.25	27	1.01	140.9	140.9	9.81
120	2	1.5	27.25	28	1.03	143.7	143.7	9.81
120	2	1.5	28	18	1.56	114.1	114.1	10.08
120	2	1.5	28	19	1.47	118.5	118.5	10.08
120	2	1.5	28	20	1.40	122.5	122.5	10.08
120	2	1.5	28	21	1.33	126.3	126.3	10.08
120	2	1.5	28	22	1.27	129.7	129.7	10.08
120	2	1.5	28	23	1.22	132.9	132.9	10.08
120	2	1.5	28	24	1.17	135.8	135.8	10.08
120	2	1.5	28	25	1.12	138.5	138.5	10.08
120	2	1.5	28	26	1.08	140.9	140.9	10.08

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	28	27	1.04	143.2	143.2	10.08
120	2	1.5	28	28	1.00	145.2	145.2	10.08
120	2	1.5	28.25	18	1.57	114.3	114.3	10.17
120	2	1.5	28.25	19	1.49	118.8	118.8	10.17
120	2	1.5	28.25	20	1.41	122.9	122.9	10.17
120	2	1.5	28.25	21	1.35	126.7	126.7	10.17
120	2	1.5	28.25	22	1.28	130.2	130.2	10.17
120	2	1.5	28.25	23	1.23	133.4	133.4	10.17
120	2	1.5	28.25	24	1.18	136.4	136.4	10.17
120	2	1.5	28.25	25	1.13	139.1	139.1	10.17
120	2	1.5	28.25	26	1.09	141.7	141.7	10.17
120	2	1.5	28.25	27	1.05	143.9	143.9	10.17
120	2	1.5	28.25	28	1.01	146.0	146.0	10.17
120	2	1.5	28.5	18	1.58	114.6	114.6	10.26
120	2	1.5	28.5	19	1.50	119.1	119.1	10.26
120	2	1.5	28.5	20	1.43	123.3	123.3	10.26
120	2	1.5	28.5	21	1.36	127.2	127.2	10.26
120	2	1.5	28.5	22	1.30	130.7	130.7	10.26
120	2	1.5	28.5	23	1.24	134.0	134.0	10.26
120	2	1.5	28.5	24	1.19	137.0	137.0	10.26
120	2	1.5	28.5	25	1.14	139.8	139.8	10.26
120	2	1.5	28.5	26	1.10	142.3	142.3	10.26
120	2	1.5	28.5	27	1.06	144.7	144.7	10.26
120	2	1.5	28.5	28	1.02	146.8	146.8	10.26
120	2	1.5	28.75	18	1.60	114.9	114.9	10.35
120	2	1.5	28.75	19	1.51	119.5	119.5	10.35
120	2	1.5	28.75	20	1.44	123.7	123.7	10.35
120	2	1.5	28.75	21	1.37	127.6	127.6	10.35
120	2	1.5	28.75	22	1.31	131.2	131.2	10.35
120	2	1.5	28.75	23	1.25	134.5	134.5	10.35
120	2	1.5	28.75	24	1.20	137.6	137.6	10.35
120	2	1.5	28.75	25	1.15	140.4	140.4	10.35
120	2	1.5	28.75	26	1.11	143.0	143.0	10.35
120	2	1.5	28.75	27	1.06	145.4	145.4	10.35
120	2	1.5	28.75	28	1.03	147.6	147.6	10.35
120	2	1.5	29	18	1.61	115.1	115.1	10.44
120	2	1.5	29	19	1.53	119.8	119.8	10.44
120	2	1.5	29	20	1.45	124.1	124.1	10.44
120	2	1.5	29	21	1.38	128.0	128.0	10.44
120	2	1.5	29	22	1.32	131.7	131.7	10.44
120	2	1.5	29	23	1.26	135.1	135.1	10.44
120	2	1.5	29	24	1.21	138.2	138.2	10.44

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120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	29	25	1.16	141.1	141.1	10.44
120	2	1.5	29	26	1.12	143.7	143.7	10.44
120	2	1.5	29	27	1.07	146.1	146.1	10.44
120	2	1.5	29	28	1.04	148.4	148.4	10.44
120	2	1.5	29.25	18	1.63	115.3	115.3	10.53
120	2	1.5	29.25	19	1.54	120.1	120.1	10.53
120	2	1.5	29.25	20	1.46	124.4	124.4	10.53
120	2	1.5	29.25	21	1.39	128.4	128.4	10.53
120	2	1.5	29.25	22	1.33	132.1	132.1	10.53
120	2	1.5	29.25	23	1.27	135.6	135.6	10.53
120	2	1.5	29.25	24	1.22	138.7	138.7	10.53
120	2	1.5	29.25	25	1.17	141.7	141.7	10.53
120	2	1.5	29.25	26	1.13	144.4	144.4	10.53
120	2	1.5	29.25	27	1.08	146.9	146.9	10.53
120	2	1.5	29.25	28	1.04	149.1	149.1	10.53
120	2	1.5	29.5	18	1.64	115.6	115.6	10.62
120	2	1.5	29.5	19	1.55	120.3	120.3	10.62
120	2	1.5	29.5	20	1.48	124.8	124.8	10.62
120	2	1.5	29.5	21	1.40	128.8	128.8	10.62
120	2	1.5	29.5	22	1.34	132.6	132.6	10.62
120	2	1.5	29.5	23	1.28	136.1	136.1	10.62
120	2	1.5	29.5	24	1.23	139.3	139.3	10.62
120	2	1.5	29.5	25	1.18	142.3	142.3	10.62
120	2	1.5	29.5	26	1.13	145.0	145.0	10.62
120	2	1.5	29.5	27	1.09	147.6	147.6	10.62
120	2	1.5	29.5	28	1.05	149.9	149.9	10.62
120	2	1.5	29.75	18	1.65	115.8	115.8	10.71
120	2	1.5	29.75	19	1.57	120.6	120.6	10.71
120	2	1.5	29.75	20	1.49	125.1	125.1	10.71
120	2	1.5	29.75	21	1.42	129.2	129.2	10.71
120	2	1.5	29.75	22	1.35	133.0	133.0	10.71
120	2	1.5	29.75	23	1.29	136.6	136.6	10.71
120	2	1.5	29.75	24	1.24	139.8	139.8	10.71
120	2	1.5	29.75	25	1.19	142.9	142.9	10.71
120	2	1.5	29.75	26	1.14	145.7	145.7	10.71
120	2	1.5	29.75	27	1.10	148.2	148.2	10.71
120	2	1.5	29.75	28	1.06	150.6	150.6	10.71
120	2	1.5	30	18	1.67	116.0	116.0	10.80
120	2	1.5	30	19	1.58	120.9	120.9	10.80
120	2	1.5	30	20	1.50	125.4	125.4	10.80
120	2	1.5	30	21	1.43	129.6	129.6	10.80
120	2	1.5	30	22	1.36	133.5	133.5	10.80

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	30	23	1.30	137.1	137.1	10.80
120	2	1.5	30	24	1.25	140.4	140.4	10.80
120	2	1.5	30	25	1.20	143.5	143.5	10.80
120	2	1.5	30	26	1.15	146.3	146.3	10.80
120	2	1.5	30	27	1.11	148.9	148.9	10.80
120	2	1.5	30	28	1.07	151.3	151.3	10.80
120	2	1.5	30.25	18	1.68	116.2	116.2	10.89
120	2	1.5	30.25	19	1.59	121.1	121.1	10.89
120	2	1.5	30.25	20	1.51	125.7	125.7	10.89
120	2	1.5	30.25	21	1.44	130.0	130.0	10.89
120	2	1.5	30.25	22	1.38	133.9	133.9	10.89
120	2	1.5	30.25	23	1.32	137.5	137.5	10.89
120	2	1.5	30.25	24	1.26	140.9	140.9	10.89
120	2	1.5	30.25	25	1.21	144.0	144.0	10.89
120	2	1.5	30.25	26	1.16	146.9	146.9	10.89
120	2	1.5	30.25	27	1.12	149.6	149.6	10.89
120	2	1.5	30.25	28	1.08	152.1	152.1	10.89
120	2	1.5	30.5	18	1.69	116.3	116.3	10.98
120	2	1.5	30.5	19	1.61	121.4	121.4	10.98
120	2	1.5	30.5	20	1.53	126.0	126.0	10.98
120	2	1.5	30.5	21	1.45	130.3	130.3	10.98
120	2	1.5	30.5	22	1.39	134.3	134.3	10.98
120	2	1.5	30.5	23	1.33	138.0	138.0	10.98
120	2	1.5	30.5	24	1.27	141.4	141.4	10.98
120	2	1.5	30.5	25	1.22	144.6	144.6	10.98
120	2	1.5	30.5	26	1.17	147.5	147.5	10.98
120	2	1.5	30.5	27	1.13	150.3	150.3	10.98
120	2	1.5	30.5	28	1.09	152.8	152.8	10.98
120	2	1.5	30.75	18	1.71	116.5	116.5	11.07
120	2	1.5	30.75	19	1.62	121.6	121.6	11.07
120	2	1.5	30.75	20	1.54	126.3	126.3	11.07
120	2	1.5	30.75	21	1.46	130.7	130.7	11.07
120	2	1.5	30.75	22	1.40	134.7	134.7	11.07
120	2	1.5	30.75	23	1.34	138.5	138.5	11.07
120	2	1.5	30.75	24	1.28	141.9	141.9	11.07
120	2	1.5	30.75	25	1.23	145.1	145.1	11.07
120	2	1.5	30.75	26	1.18	148.1	148.1	11.07
120	2	1.5	30.75	27	1.14	150.9	150.9	11.07
120	2	1.5	30.75	28	1.10	153.5	153.5	11.07
120	2	1.5	31	18	1.72	116.7	116.7	11.16
120	2	1.5	31	19	1.63	121.8	121.8	11.16
120	2	1.5	31	20	1.55	126.6	126.6	11.16

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	31	21	1.48	131.0	131.0	11.16
120	2	1.5	31	22	1.41	135.1	135.1	11.16
120	2	1.5	31	23	1.35	138.9	138.9	11.16
120	2	1.5	31	24	1.29	142.4	142.4	11.16
120	2	1.5	31	25	1.24	145.7	145.7	11.16
120	2	1.5	31	26	1.19	148.7	148.7	11.16
120	2	1.5	31	27	1.15	151.5	151.5	11.16
120	2	1.5	31	28	1.11	154.1	154.1	11.16
120	2	1.5	31.25	18	1.74	116.8	116.8	11.25
120	2	1.5	31.25	19	1.64	122.1	122.1	11.25
120	2	1.5	31.25	20	1.56	126.9	126.9	11.25
120	2	1.5	31.25	21	1.49	131.4	131.4	11.25
120	2	1.5	31.25	22	1.42	135.5	135.5	11.25
120	2	1.5	31.25	23	1.36	139.3	139.3	11.25
120	2	1.5	31.25	24	1.30	142.9	142.9	11.25
120	2	1.5	31.25	25	1.25	146.2	146.2	11.25
120	2	1.5	31.25	26	1.20	149.3	149.3	11.25
120	2	1.5	31.25	27	1.16	152.2	152.2	11.25
120	2	1.5	31.25	28	1.12	154.8	154.8	11.25
120	2	1.5	31.5	18	1.75	117.0	117.0	11.34
120	2	1.5	31.5	19	1.66	122.3	122.3	11.34
120	2	1.5	31.5	20	1.58	127.2	127.2	11.34
120	2	1.5	31.5	21	1.50	131.7	131.7	11.34
120	2	1.5	31.5	22	1.43	135.9	135.9	11.34
120	2	1.5	31.5	23	1.37	139.8	139.8	11.34
120	2	1.5	31.5	24	1.31	143.4	143.4	11.34
120	2	1.5	31.5	25	1.26	146.8	146.8	11.34
120	2	1.5	31.5	26	1.21	149.9	149.9	11.34
120	2	1.5	31.5	27	1.17	152.8	152.8	11.34
120	2	1.5	31.5	28	1.13	155.5	155.5	11.34
120	2	1.5	31.75	18	1.76	117.1	117.1	11.43
120	2	1.5	31.75	19	1.67	122.5	122.5	11.43
120	2	1.5	31.75	20	1.59	127.4	127.4	11.43
120	2	1.5	31.75	21	1.51	132.0	132.0	11.43
120	2	1.5	31.75	22	1.44	136.2	136.2	11.43
120	2	1.5	31.75	23	1.38	140.2	140.2	11.43
120	2	1.5	31.75	24	1.32	143.9	143.9	11.43
120	2	1.5	31.75	25	1.27	147.3	147.3	11.43
120	2	1.5	31.75	26	1.22	150.4	150.4	11.43
120	2	1.5	31.75	27	1.18	153.4	153.4	11.43
120	2	1.5	31.75	28	1.13	156.1	156.1	11.43
120	2	1.5	32	18	1.78	117.2	117.2	11.52

MSHA Approval Number: 120M-11.2

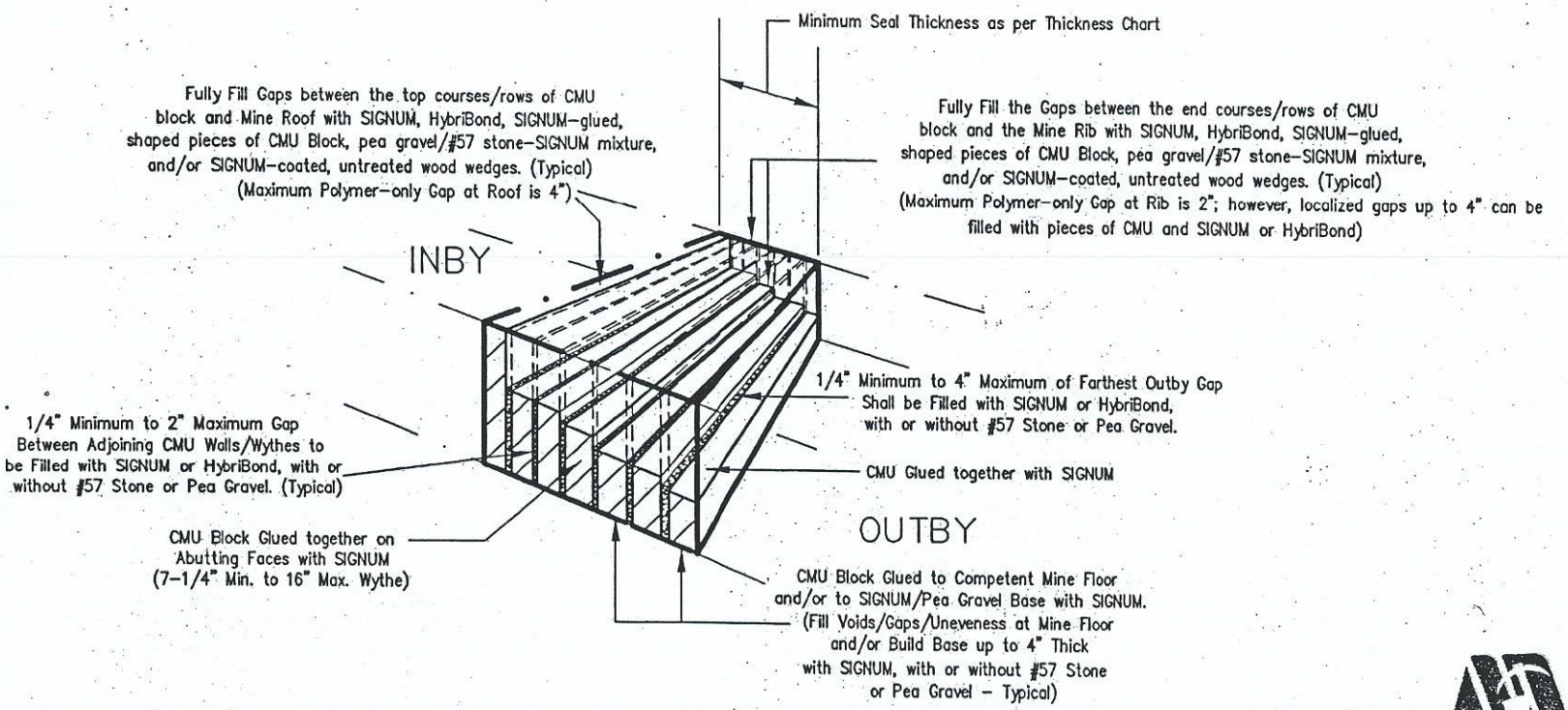
120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

120	2	1.5	32	19	1.68	122.7	122.7	11.52
120	2	1.5	32	20	1.60	127.7	127.7	11.52
120	2	1.5	32	21	1.52	132.3	132.3	11.52
120	2	1.5	32	22	1.45	136.6	136.6	11.52
120	2	1.5	32	23	1.39	140.6	140.6	11.52
120	2	1.5	32	24	1.33	144.3	144.3	11.52
120	2	1.5	32	25	1.28	147.8	147.8	11.52
120	2	1.5	32	26	1.23	151.0	151.0	11.52
120	2	1.5	32	27	1.19	154.0	154.0	11.52
120	2	1.5	32	28	1.14	156.8	156.8	11.52
120	2	1.5	32.25	18	1.79	117.4	117.4	11.61
120	2	1.5	32.25	19	1.70	122.8	122.8	11.61
120	2	1.5	32.25	20	1.61	127.9	127.9	11.61
120	2	1.5	32.25	21	1.54	132.6	132.6	11.61
120	2	1.5	32.25	22	1.47	137.0	137.0	11.61
120	2	1.5	32.25	23	1.40	141.0	141.0	11.61
120	2	1.5	32.25	24	1.34	144.8	144.8	11.61
120	2	1.5	32.25	25	1.29	148.3	148.3	11.61
120	2	1.5	32.25	26	1.24	151.5	151.5	11.61
120	2	1.5	32.25	27	1.19	154.6	154.6	11.61
120	2	1.5	32.25	28	1.15	157.4	157.4	11.61
120	2	1.5	32.5	18	1.81	117.5	117.5	11.70
120	2	1.5	32.5	19	1.71	123.0	123.0	11.70
120	2	1.5	32.5	20	1.63	128.1	128.1	11.70
120	2	1.5	32.5	21	1.55	132.9	132.9	11.70
120	2	1.5	32.5	22	1.48	137.3	137.3	11.70
120	2	1.5	32.5	23	1.41	141.4	141.4	11.70
120	2	1.5	32.5	24	1.35	145.2	145.2	11.70
120	2	1.5	32.5	25	1.30	148.8	148.8	11.70
120	2	1.5	32.5	26	1.25	152.1	152.1	11.70
120	2	1.5	32.5	27	1.20	155.2	155.2	11.70
120	2	1.5	32.5	28	1.16	158.0	158.0	11.70

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

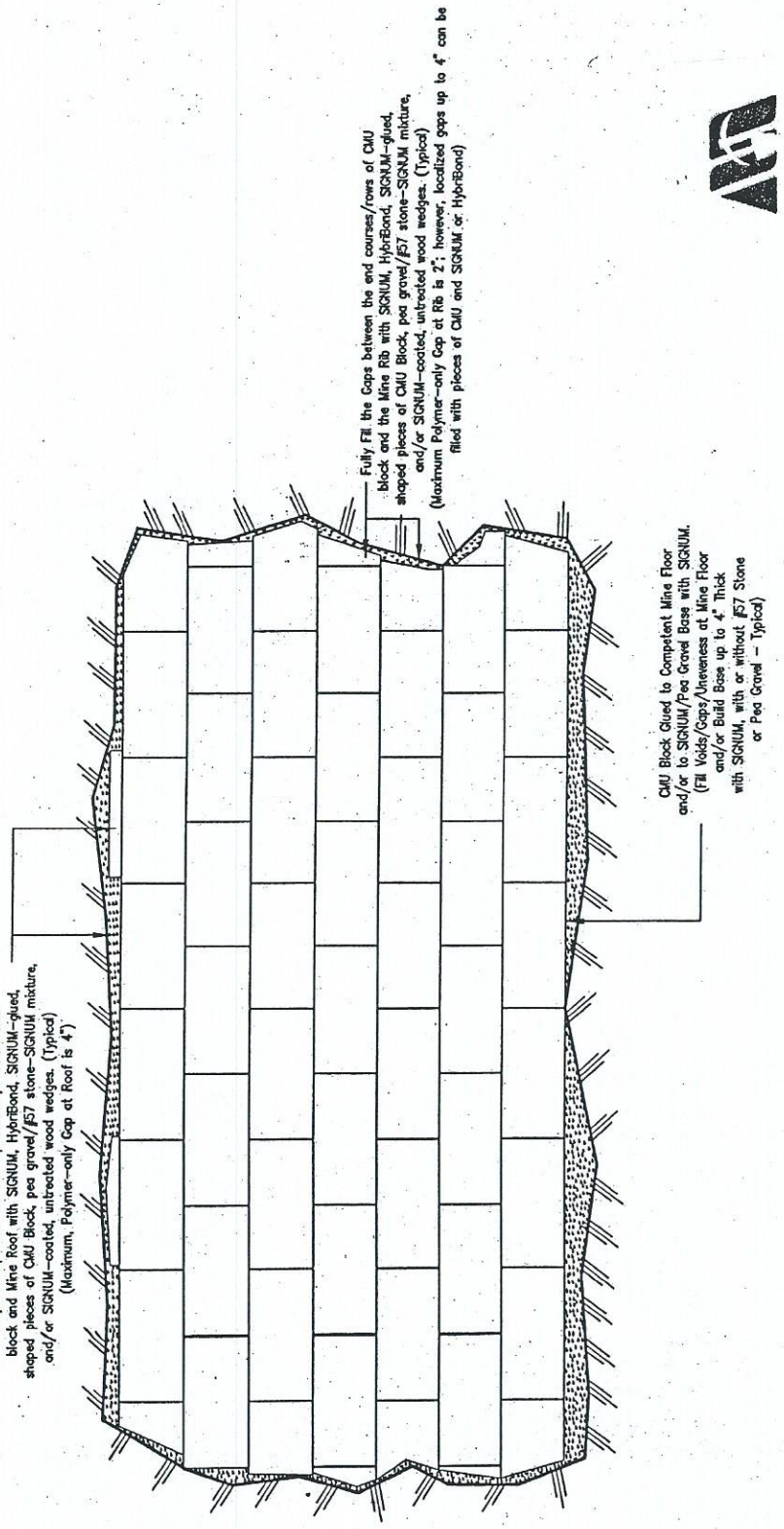


TYPICAL, ISOMETRIC VIEW OF MICON HYBRID II SEAL
DURING AND AFTER ITS CONSTRUCTION (N.T.S.)

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

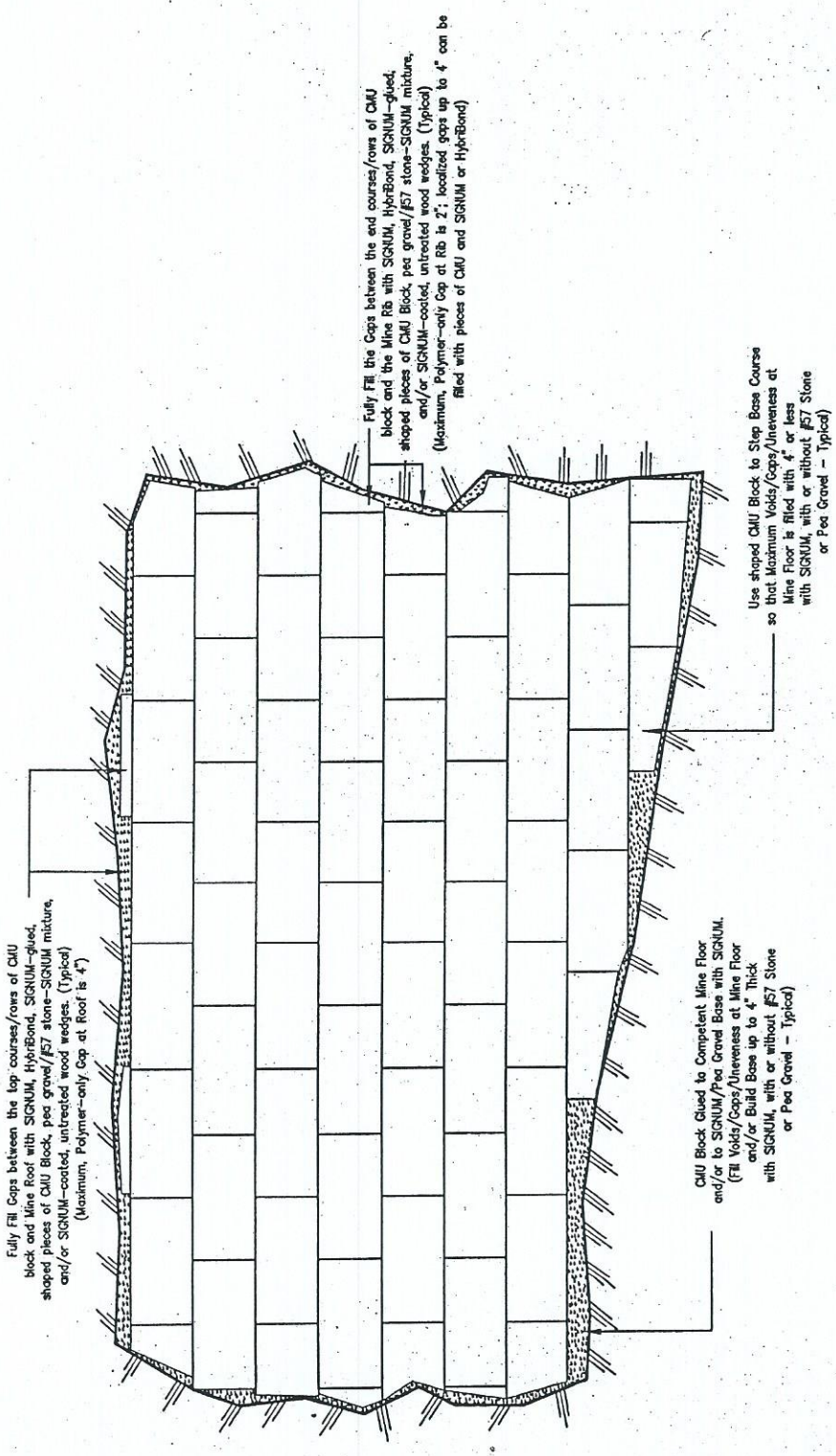


TYPICAL OUTBY ELEVATION VIEW OF 120-psi SEAL (N.T.S.)

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

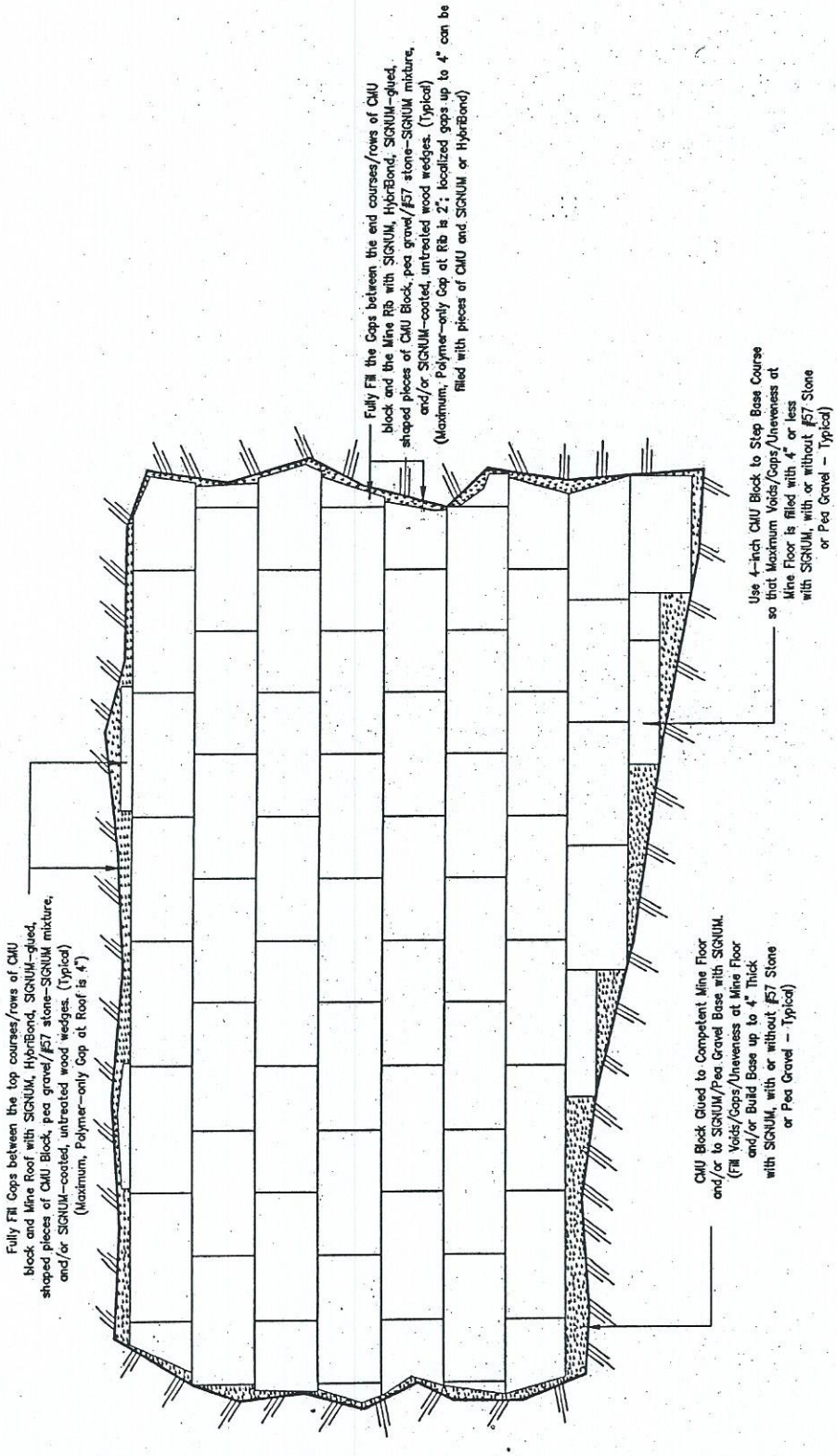


TYPICAL OUTBY ELEVATION VIEW OF 120-psi SEAL (N.T.S.)
WITH FLOOR SLOPING FROM RIB TO RIB (N.T.S.)

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

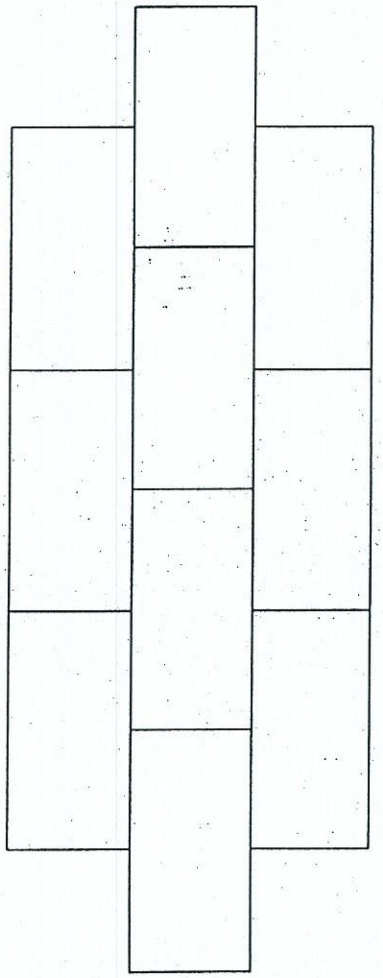
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications



TYPICAL OUTBY ELEVATION VIEW OF 120-psi SEAL (N.T.S.)

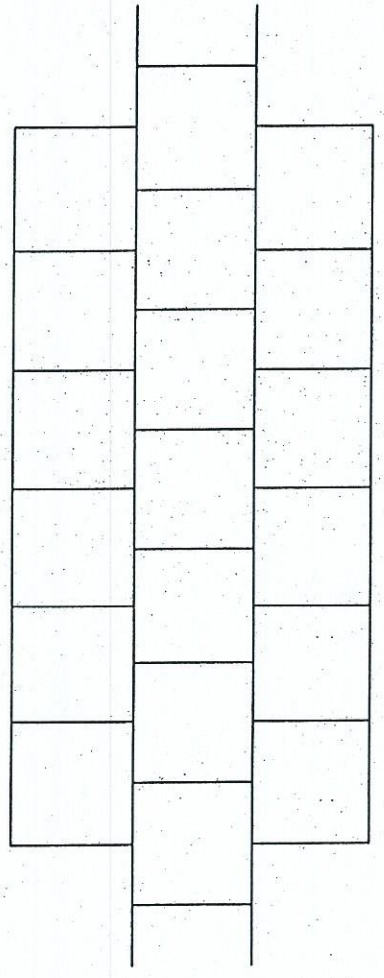
WITH FLOOR SLOPING FROM RIB TO RIB (N.T.S.)

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications



TYPICAL RUNNING BOND WYTHE – 7–1/4" Min. to 16" Max. THICK
(N.T.S.)

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

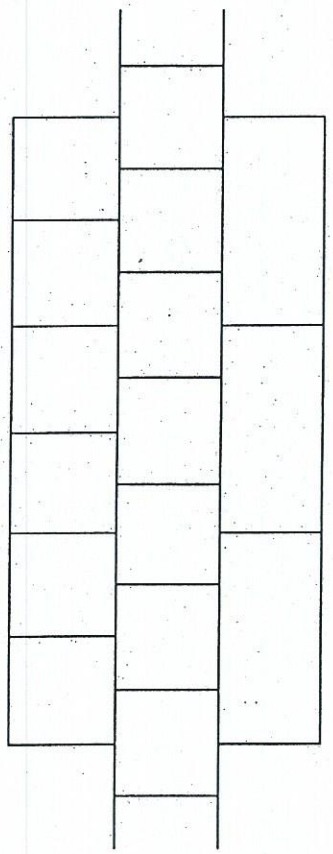


TYPICAL RUNNING BOND WYTHE – 7–1/4" Min. to 16" Max. THICK
(N.T.S.)

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

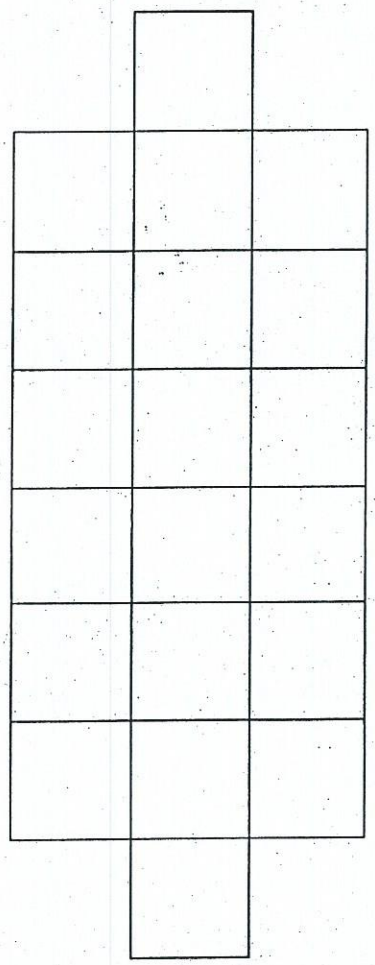
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications



TYPICAL COMMON/RUNNING BOND WYTHE – 7–1/4" Min. to 16" Max. THICK

(N.T.S.)

MSHA Approval Number: 120M-11.2
120 psi MICON Main Line Hybrid II Seal
Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications

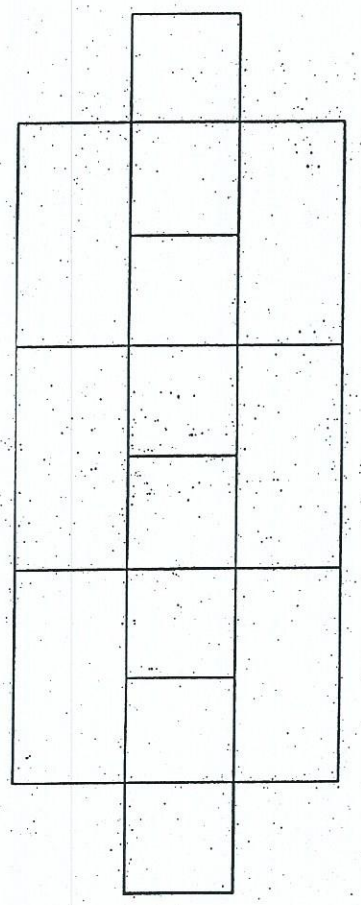


TYPICAL STACK BOND WYTHE – 7–1/4" Min. to 16" Max. THICK
(N.T.S.)

MSHA Approval Number: 120M-11.2

120 psi MICON Main Line Hybrid II Seal

Covered by U.S. Patent No. 8,342,776 and/or one or more pending International Patent applications



TYPICAL COMMON/STACK BOND WYTHE – 7–1/4" Min. to 16" Max. THICK

(N.T.S.)