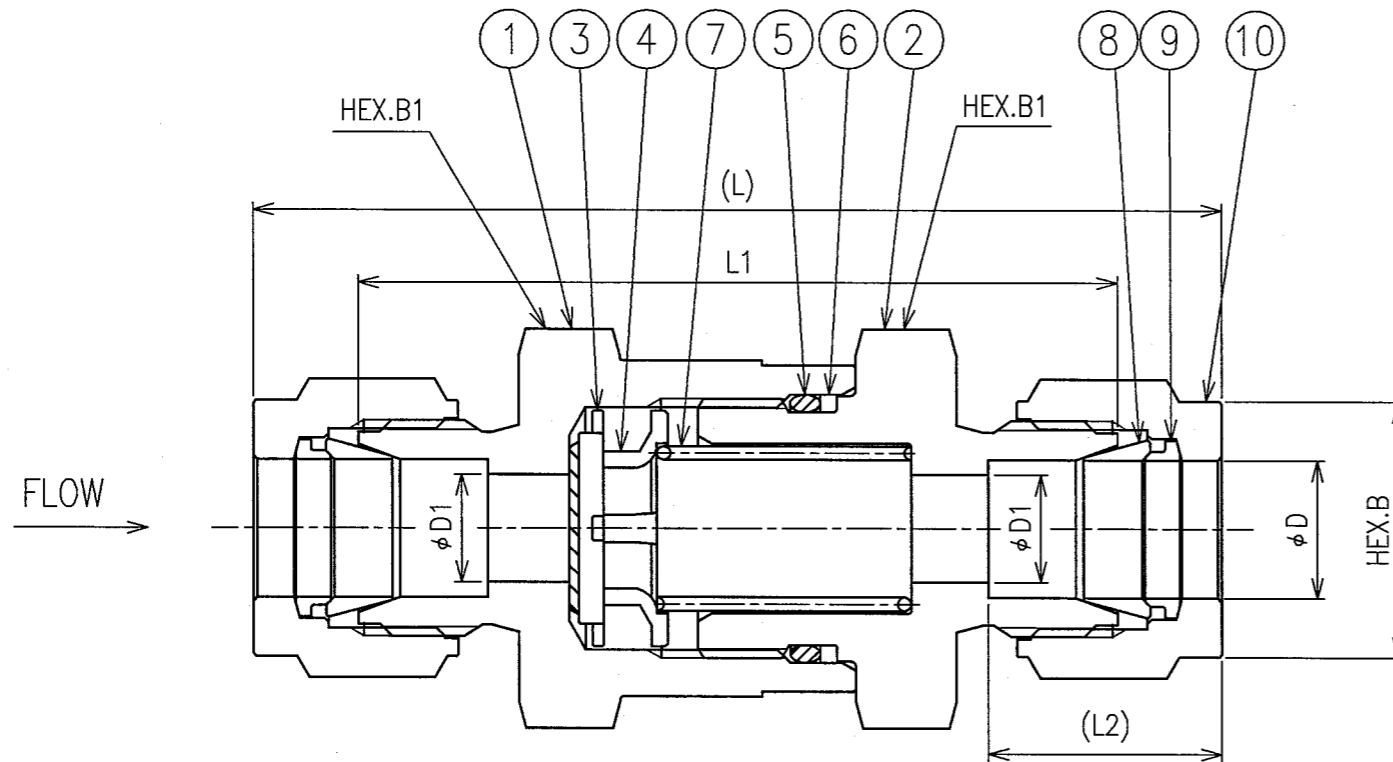
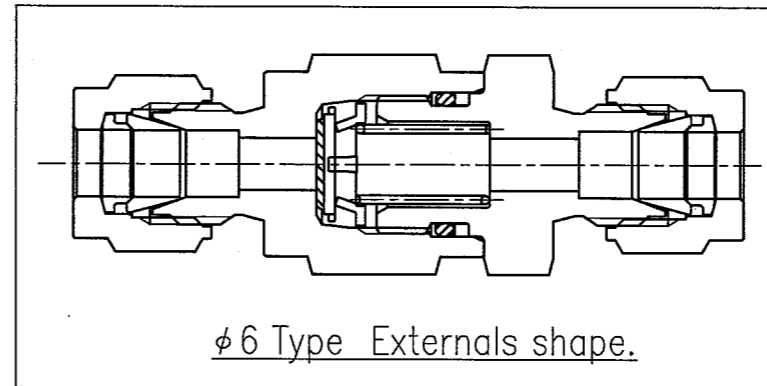


BEFORE USING THIS VALVE:

- Note that the valve will start opening at the cracking pressure, which is different from the indication pressure, and which is confirmed with the upstream pressure at which the first indication of flow occurs.
- With new valves or valves that have not been opened in a long time, the cracking pressure may be somewhat higher than normal.
- Check valves are designed for directional flow control only. This valves should never be used as ON-OFF valves.
- There is an arrow which shows the direction of a flow in a valve body, please confirm the direction of a flow at the time of piping. $\triangle 3$



| NOMINAL DIA. D | ORIFICE D1 | FACE TO FACE L | L1 | L2 | B | B1 | ITEM No. (The * section expresses a cracking pressure sign. Refer to Table1.) |
|----------------|-----------------|----------------|------|------|----|------|--|
| 6 | 4.8 | 61.7 | 46.9 | 15.3 | 14 | 17.5 | VUCL-941-6-* |
| 8 | $\triangle 6.4$ | 68.6 | 53.6 | 16.2 | 15 | 25.4 | VUCL-941-8-* |
| 10 | 7.9 | 71.1 | 55.9 | 17.2 | 18 | 25.4 | VUCL-941-10-* |
| 12 | 7.9 | 75.2 | 55 | 22.8 | 22 | 25.4 | VUCL-941-12-* |

$\triangle 1$ Table1. Cracking pressure sign and seat test pressure.

| CRACKING PRESSURE (MPa) | $\triangle 2$ SEAT TEST PRESSURE (MPa) | * SECTION SIGN |
|-------------------------|--|----------------|
| 0.003 | BACK PRESSURE 0.042 | 0.03 |
| 0.007 | BACK PRESSURE 0.035 | 0.07 |
| 0.035 | BACK PRESSURE 0.014 | 0.35 |
| 0.069 | UPSTREAM PRESSURE 0.021 | 0.69 |
| 0.18 | UPSTREAM PRESSURE 0.12 | 1.8 |

| REVISION | | | | |
|---------------|-----------|----------------------------------|---------|---------------------|
| REV. NO. | DATE | REVISED DESCRIPTION | REVISED | APPD. |
| $\triangle 1$ | 9.27.'11 | Kind of cracking pressure added. | K.H | Y.S |
| $\triangle 2$ | 11.10.'11 | Seat test pressure added. | K.H | Y.S |
| $\triangle 3$ | 7.18.'12 | Notes added. | | <i>K. Ishimatsu</i> |

| REMARK | | | | |
|----------|---------------|---------------|------|------------|
| 15 | | | | |
| 14 | | | | |
| 13 | | | | |
| 12 | | | | |
| 11 | | | | |
| 10 | NUT | ASTM A276 316 | 2 | Ag Plating |
| 9 | BACK RING | ASTM A276 316 | 2 | |
| 8 | FRONT RING | ASTM A276 316 | 2 | |
| 7 | SPRING | SUS316 | 1 | |
| 6 | BACKUP RING | PTFE | 1 | |
| 5 | O-RING | FKM | 1 | |
| 4 | POPPET STOP | ASTM A276 316 | 1 | |
| 3 | POPPET | SUS316L+FKM | 1 | MIM |
| 2 | BODY2 | ASTM A479 316 | 1 | |
| 1 | BODY1 | ASTM A479 316 | 1 | |
| PART.NO. | NAME OF PARTS | MATERIAL | Q'TY | REMARK |

| MATERIAL LIST | | | |
|---------------|---------------------|-----------------|-------------|
| DATE | 6.21.'11 | TEST PRESS. MPa | |
| SCALE | N.T.S. | ITEM | FLUID |
| APPD. | <i>J. Mura</i> | SHELL | 62 |
| CHKD. | <i>m. Sogata</i> | SEAT | Table1&45.5 |
| DESIGN | <i>K. Ishimatsu</i> | BACKSEAT | |
| | | SEAL | 45.5 |

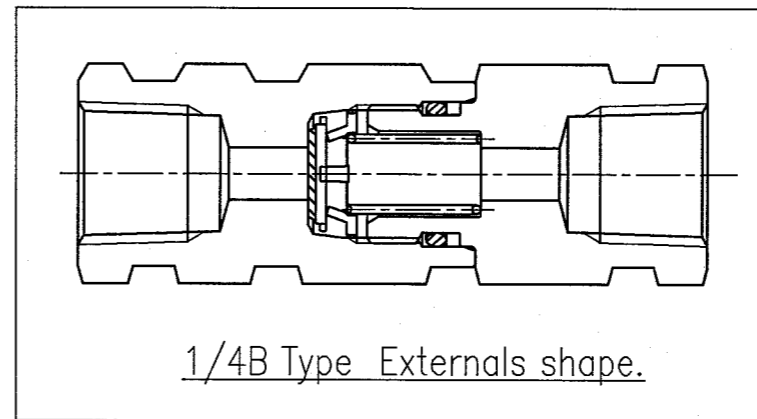
| | |
|-------------------------|---|
| RECIPIENT | |
| MODEL NO. | |
| TRADEMARK OR MODEL NAME | |
| NAME | STAINLESS STEEL V-Lok ® TYPE LINE CHECK VALVES |
| DRG NO. | U13620E |
| REV.MARK | $\triangle 3$ |

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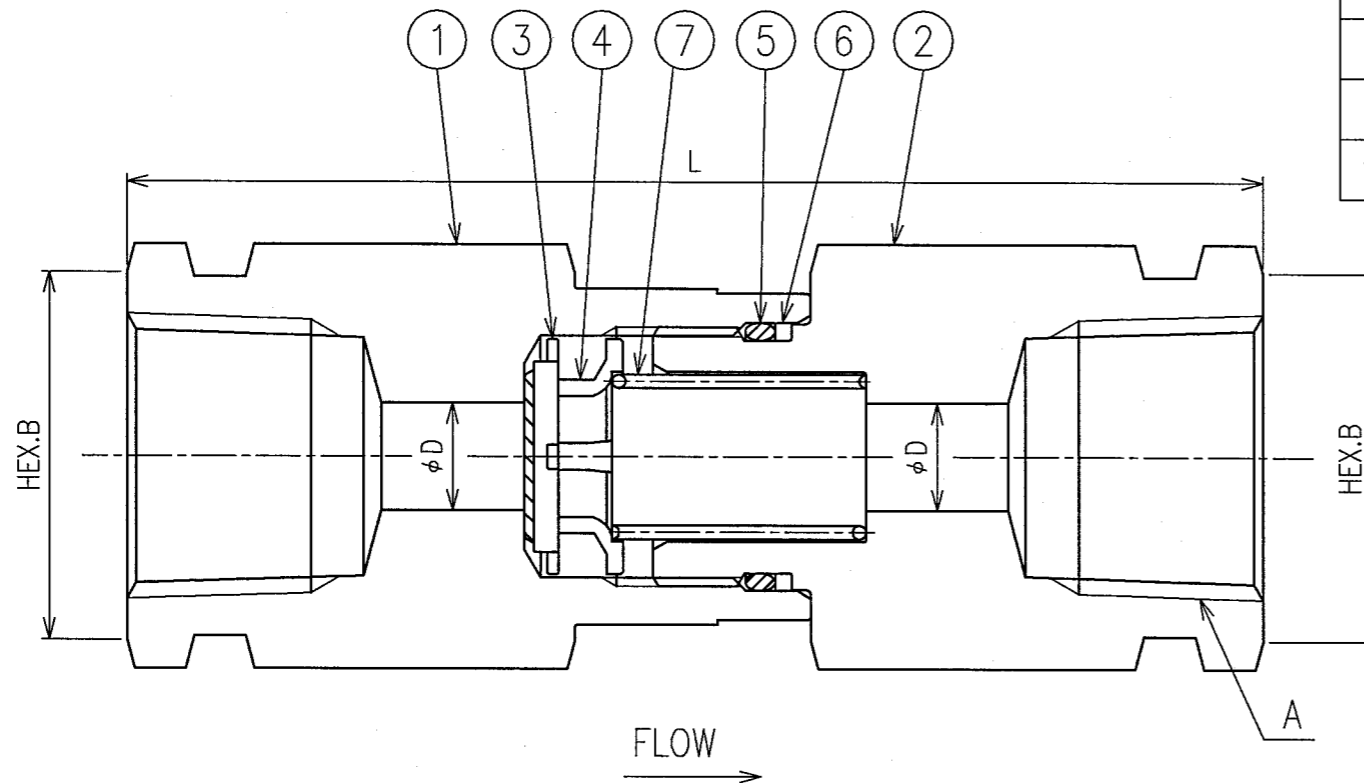
| CAREER | CONTRAST TABLE | NOMINAL SIZE (A) | 6 | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 | 250 |
|--------|----------------|------------------|-----------------|------|------|------|------|------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| | | NOMINAL SIZE (B) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 | 10 |
| | | OUTSIDE DIAMETER | 10.5 | 13.8 | 17.3 | 21.7 | 27.2 | 34.0 | 42.7 | 48.6 | 60.5 | 76.3 | 89.1 | 101.6 | 114.3 | 139.8 | 165.2 | 216.3 | 267.4 |
| | | UNIT(mm) | THE THIRD ANGLE | | | | | | | | | | | | | | | | |
| | | acad080 VUCL | CAB. NO. | | | | | | | | | | | | | | | | |

BEFORE USING THIS VALVE:

- Note that the valve will start opening at the cracking pressure, which is different from the indication pressure, and which is confirmed with the upstream pressure at which the first indication of flow occurs.
- With new valves or valves that have not been opened in a long time, the cracking pressure may be somewhat higher than normal.
- Check valves are designed for directional flow control only. This valves should never be used as ON-OFF valves.
- There is an arrow which shows the direction of a flow in a valve body, please confirm the direction of a flow at the time of piping. $\triangle 3$



| NOMINAL DIA. | MAX. WORKING PRESSURE (MPa) | TEST PRESSURE (MPa) | | | |
|--------------|-----------------------------|---------------------|------------|-------------|------|
| | | FLUID: WATER | FLUID: GN2 | | |
| A | B | SHELL | SEAT | SEAL | |
| 8 | 1/4 | 41.3 | 62 | Table1&45.5 | 45.5 |
| 15 | 1/2 | 35.1 | 52.7 | Table1&38.7 | 38.7 |



| NOMINAL DIA. | | ORIFICE D | FACE TO FACE L | A | B | ITEM No. (The * section expresses a cracking pressure sign. Refer to Table1.) |
|--------------|-----|-----------|----------------|-------|------|--|
| A | B | | | | | |
| 8 | 1/4 | 4.8 | 57.9 | Rc1/4 | 17.5 | VUCL-141B-* |
| 15 | 1/2 | 7.9 | 83.6 | Rc1/2 | 27.0 | VUCL-141D-* |

$\triangle 1$ Table1. Cracking pressure sign and seat test pressure.

| CRACKING PRESSURE (MPa) | $\triangle 2$ SEAT TEST PRESSURE (MPa) | * SECTION SIGN |
|-------------------------|--|----------------|
| 0.003 | BACK PRESSURE 0.042 | 0.03 |
| 0.007 | BACK PRESSURE 0.035 | 0.07 |
| 0.035 | BACK PRESSURE 0.014 | 0.35 |
| 0.069 | UPSTREAM PRESSURE 0.021 | 0.69 |
| 0.18 | UPSTREAM PRESSURE 0.12 | 1.8 |

| REVISION | | | | |
|---------------|-----------|----------------------------------|---------|-------|
| REV. NO. | DATE | REVISED DESCRIPTION | REVISED | APPD. |
| $\triangle 1$ | 9.27.'11 | Kind of cracking pressure added. | K.H | Y.S |
| $\triangle 2$ | 11.10.'11 | Seat test pressure added. | K.H | Y.S |
| $\triangle 3$ | 7.18.'12 | Notes added. | | |

REMARK

| PART.NO. | NAME OF PARTS | MATERIAL | Q'TY | REMARK |
|----------|---------------|---------------|------|--------|
| 15 | | | | |
| 14 | | | | |
| 13 | | | | |
| 12 | | | | |
| 11 | | | | |
| 10 | | | | |
| 9 | | | | |
| 8 | | | | |
| 7 | SPRING | SUS316 | 1 | |
| 6 | BACKUP RING | PTFE | 1 | |
| 5 | O-RING | FKM | 1 | |
| 4 | POPPET STOP | ASTM A276 316 | 1 | |
| 3 | POPPET | SUS316L+FKM | 1 | MIM |
| 2 | BODY2 | ASTM A479 316 | 1 | |
| 1 | BODY1 | ASTM A479 316 | 1 | |

| PART.NO. | NAME OF PARTS | MATERIAL | Q'TY | REMARK |
|----------|---------------|----------|------|--------|
|----------|---------------|----------|------|--------|


| MATERIAL LIST | | | | |
|---------------|---------------------|-----------------|----------|-----|
| DATE | 6.21.'11 | TEST PRESS. MPa | | |
| SCALE | N.T.S. | FLUID | WATER | GN2 |
| APPD. | <i>[Signature]</i> | ITEM | SHELL | |
| CHKD. | <i>m. Sogawa</i> | | SEAT | |
| DESIGN | <i>K. Ishimatsu</i> | | BACKSEAT | |
| | | | SEAL | |

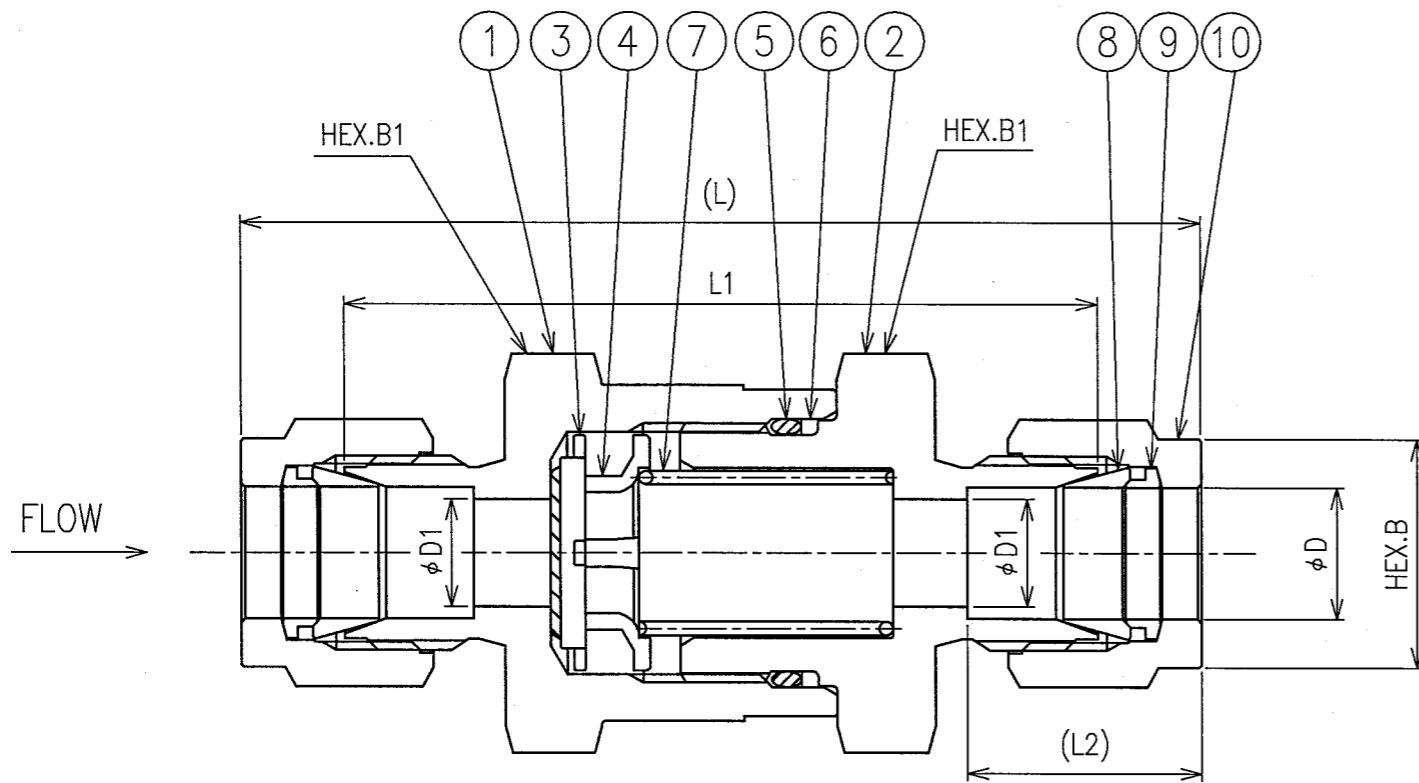
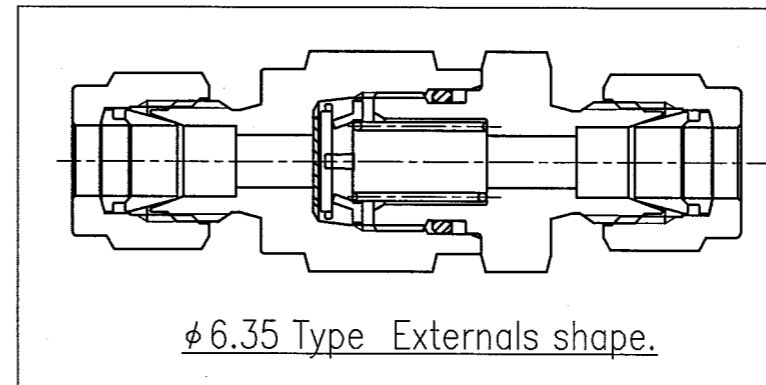
| | |
|-------------------------|--|
| RECIPIENT | |
| MODEL NO. | |
| TRADEMARK OR MODEL NAME | |
| NAME | STAINLESS STEEL SCREWED TYPE LINE CHECK VALVES |
| DRG NO. | U13621E |
| REV.MARK | $\triangle 3$ |

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
| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|----------------|------------------|------|------|------|------|------|------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|----------|-----------------|--------------|----------|
| CAREER | | CONTRAST TABLE | NOMINAL SIZE (A) | 6 | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 | 250 | UNIT(mm) | THE THIRD ANGLE | acad080 VUCL | CAB. NO. |
| | | | NOMINAL SIZE (B) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 | 10 | | | | |
| | | | OUTSIDE DIAMETER | 10.5 | 13.8 | 17.3 | 21.7 | 27.2 | 34.0 | 42.7 | 48.6 | 60.5 | 76.3 | 89.1 | 101.6 | 114.3 | 139.8 | 165.2 | 216.3 | 267.4 | | | | |


BEFORE USING THIS VALVE:




- Note that the valve will start opening at the cracking pressure, which is different from the indication pressure, and which is confirmed with the upstream pressure at which the first indication of flow occurs.
- With new valves or valves that have not been opened in a long time, the cracking pressure may be somewhat higher than normal.
- Check valves are designed for directional flow control only. This valves should never be used as ON-OFF valves.
- There is an arrow which shows the direction of a flow in a valve body, please confirm the direction of a flow at the time of piping. 



| NOMINAL DIA. D | ORIFICE D1 | FACE TO FACE L | L1 | L2 | B | B1 | ITEM No. (The * section expresses a cracking pressure sign. Refer to Table1.) |
|----------------|------------|----------------|------|------|------|------|--|
| 6.35 | 4.8 | 61.7 | 47 | 15.2 | 14.3 | 17.5 | VUCL-941-6.35-* |
| 9.52 | 7.9 | 69.9 | 55.1 | 16.8 | 17.5 | 25.4 | VUCL-941-9.52-* |
| 12.7 | 7.9 | 75.2 | 54.9 | 22.9 | 22.2 | 25.4 | VUCL-941-12.7-* |

 Table1. Cracking pressure sign and seat test pressure.


| CRACKING PRESSURE (MPa) |  SEAT TEST PRESSURE (MPa) | * SECTION SIGN |
|-------------------------|--|----------------|
| 0.003 | BACK PRESSURE 0.042 | 0.03 |
| 0.007 | BACK PRESSURE 0.035 | 0.07 |
| 0.035 | BACK PRESSURE 0.014 | 0.35 |
| 0.069 | UPSTREAM PRESSURE 0.021 | 0.69 |
| 0.18 | UPSTREAM PRESSURE 0.12 | 1.8 |

| REVISION | | | | |
|---|-----------|----------------------------------|---------|---------------------|
| REV. NO. | DATE | REVISED DESCRIPTION | REVISED | APPD. |
|  1 | 9.27.'11 | Kind of cracking pressure added. | K.H | Y.S |
|  2 | 11.10.'11 | Seat test pressure added. | K.H | Y.S |
|  3 | 7.18.'12 | Notes added. | | <i>K. Ichimatsu</i> |

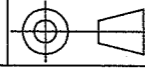
REMARK

| 15 | | | | |
|----------|---------------|---------------|------|------------|
| 14 | | | | |
| 13 | | | | |
| 12 | | | | |
| 11 | | | | |
| 10 | NUT | ASTM A276 316 | 2 | Ag Plating |
| 9 | BACK RING | ASTM A276 316 | 2 | |
| 8 | FRONT RING | ASTM A276 316 | 2 | |
| 7 | SPRING | SUS316 | 1 | |
| 6 | BACKUP RING | PTFE | 1 | |
| 5 | O-RING | FKM | 1 | |
| 4 | POPPET STOP | ASTM A276 316 | 1 | |
| 3 | POPPET | SUS316L+FKM | 1 | MIM |
| 2 | BODY2 | ASTM A479 316 | 1 | |
| 1 | BODY1 | ASTM A479 316 | 1 | |
| PART.NO. | NAME OF PARTS | MATERIAL | Q'TY | REMARK |

| MATERIAL LIST | | | | | |
|---------------|---------------------|-----------------|-------|-------|-----------------|
| DATE | 6.21.'11 | TEST PRESS. MPa | | | |
| SCALE | N.T.S. | ITEM | FLUID | WATER | GN ₂ |
| APPD. | <i>[Signature]</i> | SHELL | | 62 | |
| CHKD. | <i>m. Sogao</i> | SEAT | | | Table1&45.5 |
| DESIGN | <i>K. Ichimatsu</i> | BACKSEAT | | | |
| | | SEAL | | | 45.5 |

| | |
|-------------------------|---|
| RECIPIENT | |
| MODEL NO. | |
| TRADEMARK OR MODEL NAME | |
| NAME | STAINLESS STEEL V-Lok TYPE LINE CHECK VALVES |
| DRG NO. | U13590E |
| REV.MARK |  3 |

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| CAREER | CONTRAST TABLE | NOMINAL SIZE (A) | 6 | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 | 250 |
|--------|----------------|------------------|---|------|------|------|------|------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| | | NOMINAL SIZE (B) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 | 10 |
| | | OUTSIDE DIAMETER | 10.5 | 13.8 | 17.3 | 21.7 | 27.2 | 34.0 | 42.7 | 48.6 | 60.5 | 76.3 | 89.1 | 101.6 | 114.3 | 139.8 | 165.2 | 216.3 | 267.4 |
| | | UNIT(mm) | THE THIRD ANGLE  | | | | | | | | | | | | | | | | |
| | | acad080 VUCL | CAB. NO. | | | | | | | | | | | | | | | | |