



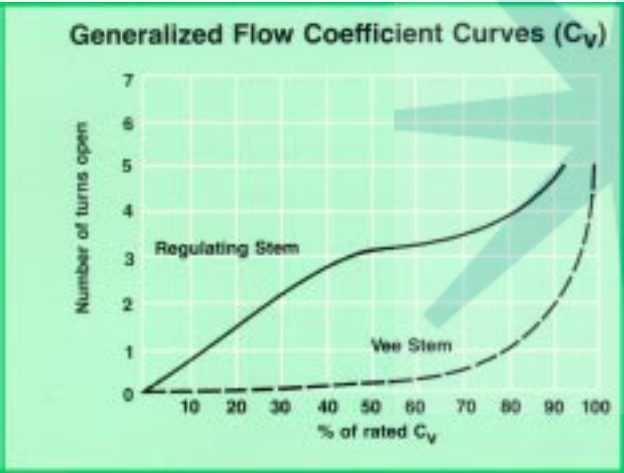
VALVE SERIES 30VM-SOGWO  
Sour Oil and Gas Service to 20,000 Psi

| O.D. Size Inches | Connection Type | Orifice Size Inches | Rated Cv* | Pressure/Temp. Rating psi @R.T.** |
|------------------|-----------------|---------------------|-----------|-----------------------------------|
| 1/4              | F250C           | 0.094               | 0.12      | 20,000                            |
| 3/8              | F375C           | 0.125               | 0.23      | 20,000                            |
| 9/16             | F562C           | 0.125               | 0.33      | 20,000                            |

**Notes:**  
\* Cv values shown are for 2-way straight valve pattern.  
For 2-way angle patterns, increase Cv value 50%.  
\*\*For complete temperature ratings see pressure/temperature rating guide in Technical Information section.



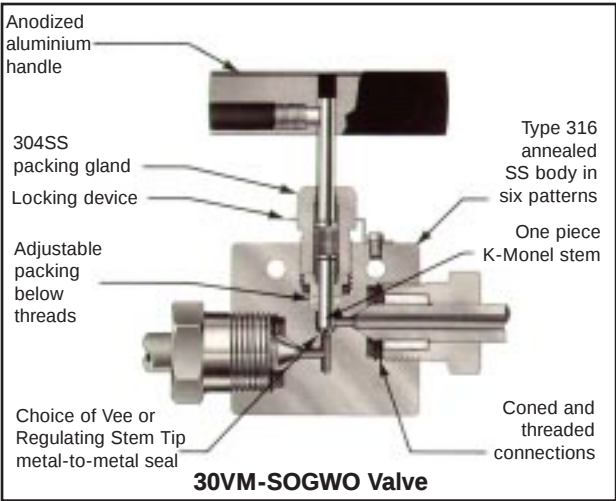
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Ordering Procedure

30VM-SOGWO Series valves are furnished **without** collars and glands, unless otherwise specified.  
Typical catalogue number: **30VM4001-SOGWO**

|              |                                                     |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                          |
|--------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>30VM</b>  | <b>4</b>                                            | <b>00</b>                                                                                                                                                                                                                                                                                                | <b>1</b> -SOGWO                                                                                                                                                          |
| Valve Series | O.D. Tube Size<br>4 - 1/4"<br>6 - 3/8"<br>9 - 9/16" | Stem Type<br>00 - one piece rotating VEE stem<br>01 - one piece rotating regulating stem<br>07 - non-rotating VEE stem<br>08 - non-rotating regulating stem<br>81 - regulating one-piece stem with replaceable seat<br>80 - vee stem with replaceable seat<br>88 - regulating stem with replaceable seat | Body Pattern<br>1 - two-way straight<br>2 - two-way angle<br>3 - three-way, two on pressure<br>4 - three-way, one on pressure<br>5 - three-way, two-stem manifold valve. |



**Valve Maintenance**  
**Repair Kits:** add "R" to the front of the valve catalogue number for proper repair kit.  
Ex: R30VM4001-SOG  
**Valve Bodies:** add "VB" to the end of the valve catalogue number for correct valve body.  
Ex: 30VM4001-SOGVB

Consult your Autoclave representative for pricing on repair kits and valve bodies. Refer to the installation, operation and maintenance section for proper maintenance procedures.

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

PLEASE SEE FOLLOWING PAGES FOR FURTHER DETAILS CATALOGUE

BACK TO

## 2-Way Straight

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4001-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.50 | 1.12           | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM4081-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.50 | 1.12           | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM6001-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.50 | 1.12           | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM6081-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.50 | 1.12           | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM9001-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.56 | 1.12           | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |
| 30VM9081-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.56 | 1.12           | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |

## 2-Way Angle

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4002-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM4082-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM6002-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM6082-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM9002-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.12 |                | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |
| 30VM9082-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.12 |                | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |

## 3-Way/2 on Pressure

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4003-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.50 | 1.12           | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM4083-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.50 | 1.12           | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM6003-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.50 | 1.12           | 2.50 | 3.00 | 1.00 | 0.22           | 4.88 | 0.69 | 0.38 | 1.00            |               |
| 30VM6083-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.50 | 1.12           | 2.50 | 3.00 | 1.00 | 0.22           | 4.88 | 0.69 | 0.38 | 1.00            |               |
| 30VM9003-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.56 | 1.12           | 2.88 | 3.00 | 1.00 | 0.28           | 5.25 | 0.69 | 0.38 | 1.50            |               |
| 30VM9083-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.56 | 1.12           | 2.88 | 3.00 | 1.00 | 0.28           | 5.25 | 0.69 | 0.38 | 1.50            |               |

## 3-Way/1 on Pressure

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4004-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM4084-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.00 | 3.00 | 1.00 | 0.22           | 4.38 | 0.69 | 0.38 | 1.00            |               |
| 30VM6004-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM6084-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.12 | 3.00 | 1.00 | 0.22           | 4.50 | 0.69 | 0.38 | 1.00            |               |
| 30VM9004-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.12 |                | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |
| 30VM9084-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.12 |                | 2.44 | 3.00 | 1.00 | 0.28           | 4.81 | 0.69 | 0.38 | 1.50            |               |

## 2-Way Angle/Replaceable Seat

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4802-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.38 | 3.00 | 1.00 | 0.22           | 5.56 | 0.69 | 0.38 | 1.00            |               |
| 30VM4882-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.12 |                | 2.38 | 3.00 | 1.00 | 0.22           | 5.56 | 0.69 | 0.38 | 1.00            |               |
| 30VM6802-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.38 | 3.00 | 1.00 | 0.22           | 5.81 | 0.69 | 0.38 | 1.00            |               |
| 30VM6882-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.12 |                | 2.38 | 3.00 | 1.00 | 0.22           | 5.81 | 0.69 | 0.38 | 1.00            |               |
| 30VM9802-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.19 |                | 2.44 | 3.00 | 1.00 | 0.28           | 6.12 | 0.69 | 0.38 | 1.50            |               |
| 30VM9882-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.19 |                | 2.44 | 3.00 | 1.00 | 0.28           | 6.12 | 0.69 | 0.38 | 1.50            |               |

## 3-Way/2-Stem Manifold

| Catalog Number | Stem Type | O.D. Tube (inches) | Orifice (inches) | Dimensions (inches) |      |      |      |                |      |      |      |                |      |      |      | Block Thickness | Valve Pattern |
|----------------|-----------|--------------------|------------------|---------------------|------|------|------|----------------|------|------|------|----------------|------|------|------|-----------------|---------------|
|                |           |                    |                  | A                   | B    | C    | D    | D <sub>1</sub> | E    | F    | G    | G <sub>1</sub> | H*   | M    | N    |                 |               |
| 30VM4005-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.53 | 1.12           | 3.06 | 3.00 | 1.00 | 0.22           | 5.44 | 0.69 | 0.38 | 1.00            |               |
| 30VM4085-SOGWO | Vee Reg   | 1/4                | 0.094            | 2.00                | 1.00 | 0.50 | 1.53 | 1.12           | 3.06 | 3.00 | 1.00 | 0.22           | 5.44 | 0.69 | 0.38 | 1.00            |               |
| 30VM6005-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.62 | 1.12           | 3.25 | 3.00 | 1.00 | 0.22           | 5.62 | 0.69 | 0.38 | 1.00            |               |
| 30VM6085-SOGWO | Vee Reg   | 3/8                | 0.125            | 2.00                | 1.00 | 0.53 | 1.62 | 1.12           | 3.25 | 3.00 | 1.00 | 0.22           | 5.62 | 0.69 | 0.38 | 1.00            |               |
| 30VM9005-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.88 | 1.12           | 3.75 | 3.00 | 1.00 | 0.28           | 6.12 | 0.69 | 0.38 | 1.50            |               |
| 39VM9085-SOGWO | Vee Reg   | 9/16               | 0.125            | 2.62                | 1.31 | 0.81 | 1.88 | 1.12           | 3.75 | 3.00 | 1.00 | 0.28           | 6.12 | 0.69 | 0.38 | 1.50            |               |

G - Packing gland mounting hole drill size

G<sub>1</sub> - Bracket mounting hole size

Panel mounting drill size: 0.22" all valves

All dimensions for reference only and subject to change.

\*Height to top of stem. Handle adds approximately 3/16".

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AUTOCLAVE, SERIES 30VM STEM ASSEMBLY



| Part Number | Stem Type | Suits Valve Series  |
|-------------|-----------|---------------------|
| 201B-1419   | Vee       | 30VM4, 30VM6, 30VM9 |

Material: K-Monel

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