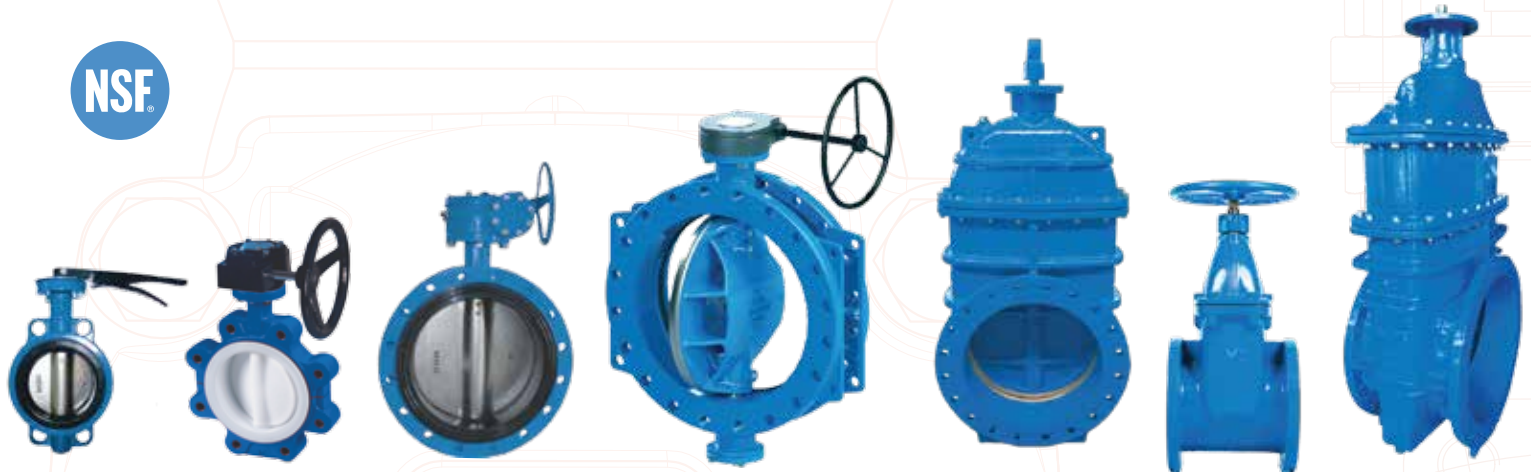


# WATER & WASTE WATER

INDUSTRIAL VALVES, ACTUATORS & ACCESORIES



| BUTTERFLY VALVES | Resilient Seat             | AWWA C504                       | PTFE Lined                 |
|------------------|----------------------------|---------------------------------|----------------------------|
| Design Standard  | API 609 / BS 5155 / EN 593 | AWWA C504 / API 609 / MSS SP 67 | API 609 / BS 5155 / EN 593 |
| Pressure Rating  | Class 150 / PN10 / PN16    | 150 / 250 psi                   | Class 150 / PN10 / PN16    |
| Size Range       | 1 1/2" - 48"               | 2" - 72"                        | 2" - 24"                   |

| GATE VALVES     | AWWA C500             | AWWA C509 / C515 |
|-----------------|-----------------------|------------------|
| Design Standard | AWWA C500 / MSS SP-70 | AWWA C509 / C515 |
| Pressure Rating | 200 psi               |                  |
| Size Range      | 2" - 24"              | 2" - 72"         |



| CHECK VALVES    | Swing Type<br>Swing Type w/ L&W | Rubber Disc<br>Type | Ball Check<br>Type | Dual Flap<br>Type  | Silent<br>Type |
|-----------------|---------------------------------|---------------------|--------------------|--------------------|----------------|
| Design Standard | AWWA C508 / MSS SP-71           | AWWA C508           | -                  | AWWA C518 / API 6D | -              |
| Pressure Rating | 200 psi                         |                     | 200 psi            | Class 125 - 250    | 200 / 400 psi  |
| Size Range      | 2" - 24"                        |                     |                    |                    |                |

| AIR RELEASE VALVES | Combination   | Sewage  | Single Orifice |
|--------------------|---------------|---------|----------------|
| Design Standard    | AWWA C512     |         | -              |
| Pressure Rating    | 200 / 300 psi | 200 psi | 200 / 300 psi  |
| Size Range         | 2" - 12"      | 2" - 8" | 1/2" - 1"      |



| CONTROL VALVES  | Hydraulic Control Valve        |
|-----------------|--------------------------------|
| Design Standard | BS EB 1074-5                   |
| Pressure Rating | Class 150 / PN10 / PN16 / PN25 |
| Size Range      | 2" - 28"                       |

| PLUG VALVES     | Rectangular<br>Type    | Circular<br>Type |
|-----------------|------------------------|------------------|
| Design Standard | AWWA C517 / MSS SP-108 |                  |
| Pressure Rating | 175 / 250 psi          |                  |
| Size Range      | 2" - 24"               |                  |

| KNIFE GATE VALVES | High Performance Knife<br>Gate Valve |
|-------------------|--------------------------------------|
| Design Standard   | MSS SP-81                            |
| Pressure Rating   | 150 psi                              |
| Size Range        | 2" - 48"                             |



For additional options and details, please contact us.

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# ACTUATION

INDUSTRIAL VALVES, ACTUATORS & ACCESSORIES

| PNEUMATIC ACTUATOR | Torque Output (N.m) |         | Temperature Range |
|--------------------|---------------------|---------|-------------------|
|                    | Minimum             | Maximum |                   |
| Rack & Pinions     | 9.8                 | 120,000 | -15°C ~ +150°C    |
| 4x4 Compact        | 26                  | 590     | -20°C ~ +120°C    |
| Scotch & Yoke      | 850                 | 240,000 | -20°C ~ +150°C    |

| ELECTRICAL ACTUATOR | Torque Output (N.m) | Enclosure                     | Temperature Range | Certifications |    |    |
|---------------------|---------------------|-------------------------------|-------------------|----------------|----|----|
|                     |                     |                               |                   | SP US          | CE | Ex |
| Quarter Turn        | 65 - 4500           | NEMA 4X<br>Explosion Proof    | -30°C ~ +65°C     | ✓              | ✓  | ✓  |
| Spring Return       | 50 - 260            |                               | -30°C ~ +65°C     | ✓              | ✓  | ✓  |
| Multi-Turn          | 40 - 2500           | IP67/IP68,<br>Explosion Proof | -30°C ~ +70°C     | -              | ✓  | ✓  |



## OPERATION ACCESSORIES

A wide range of actuation solutions to fit any installation requirements.

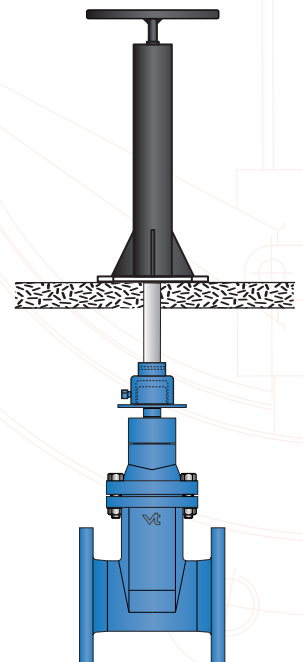
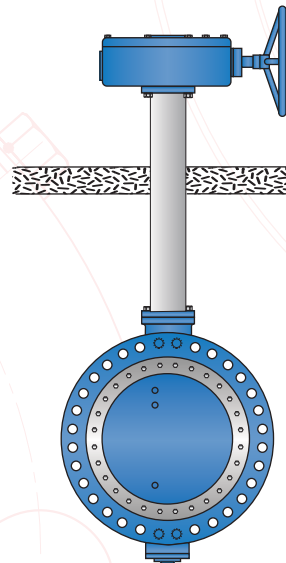
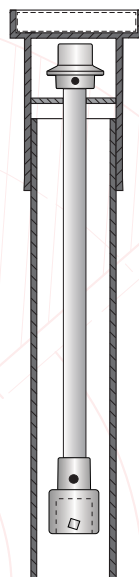
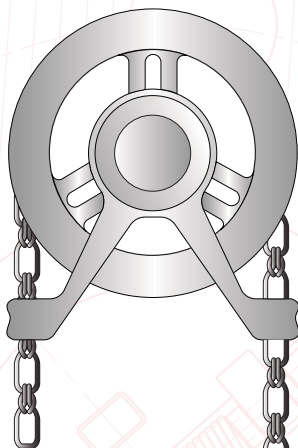
Chainwheel

Extension Stem (Single Driver / Torque Tube)

Extended Bonnet

Floor Stand

Valve Box



For additional options, please contact us.

# OIL & GAS

## INDUSTRIAL VALVES, ACTUATORS & ACCESORIES

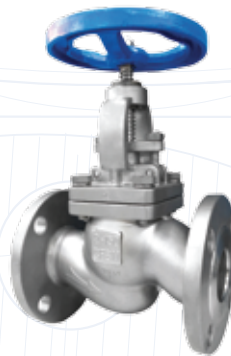
| FORGED STEEL | Design Standard           | Pressure Rating                 | Size Range |
|--------------|---------------------------|---------------------------------|------------|
| Ball Valves  | BS EN ISO 17292           | Class 150 – 2500<br>/ Class 800 | ½" – 2"    |
| Gate Valves  | API 602 / BS EN ISO 15761 |                                 |            |
| Globe Valves |                           |                                 |            |
| Check Valves |                           |                                 |            |



| BALL VALVES      | Design Standard                    | Pressure Rating  | Size Range |
|------------------|------------------------------------|------------------|------------|
| Floating Type    | API 6D / API 608 / BS EN ISO 17292 | Class 150 – 600  | ½" – 6"    |
| Rising Stem      | API 6D / ASME B16.34               | Class 150 - 1500 | 2" – 24"   |
| Top Entry        | API 6D / ASME B16.34 / ISO 14313   |                  | 2" – 30"   |
| Trunnion Mounted | API 6D                             | Class 150 - 2500 | 2" – 60"   |



| GLOBE VALVES    |  |
|-----------------|--|
| Design Standard | API 623 / BS EN 13709<br>/ ASME B16.34 / BS 1873 |
| Pressure Rating | Class 150 – 2500                                 |
| Size Range      | 2" – 24"   |



| BUTTERFLY VALVES |                     |
|------------------|---------------------|
| Design Standard  | API 609 / BS EN 593 |
| Pressure Rating  | Class 150 - 2500    |
| Size Range       | 2" – 48"            |



| GATE VALVES     |                       |
|-----------------|-----------------------|
| Design Standard | API 600 / ASME B16.34 |
| Pressure Rating | Class 150 – 2500      |
| Size Range      | 2" – 48"              |



| CHECK VALVES    |   |
|-----------------|---|
| Design Standard | API 6D / ASME B16.34<br>/ BS EN 13709 / BS 1868 |
| Pressure Rating | Class 150 – 2500                                |
| Size Range      | 2" – 24"  |



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# PROCESS INDUSTRY & ACCESSORIES

## INDUSTRIAL VALVES, ACTUATORS & ACCESSORIES

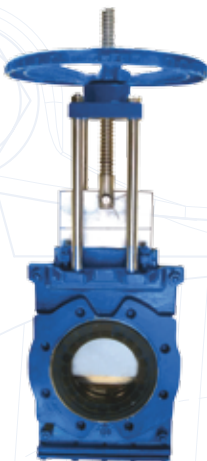


| BUTTERFLY VALVES | Wafer Type                   | Lug Type | PTFE Lined |
|------------------|------------------------------|----------|------------|
| Design Standard  | API 609 / BS 5155 / EN 593   |          | API 609    |
| Pressure Rating  | Class 150 -250 / PN10 / PN16 |          | Class 150  |
| Size Range       | 3" - 72"                     |          | 2" - 24"   |



| KNIFE GATE VALVES | High Performance Type | Funnel Type | Slurry Type | Square Type | Through Conduit Type |
|-------------------|-----------------------|-------------|-------------|-------------|----------------------|
| Design Standard   | MSS SP-81             |             |             |             |                      |
| Pressure Rating   | 100 / 150 psi         |             |             |             |                      |
| Size Range        | 2" - 48"              | 4" - 16"    | 2" - 48"    | 2" - 24"    | 3" - 24"             |

| STAINLESS STEEL VALVES |   |
|------------------------|---|
| Design Standard        | - |
| Pressure Rating        | - |
| Size Range             | - |



| FOOT VALVES     |              |
|-----------------|--------------|
| Design Standard | -            |
| Pressure Rating | 200 psi      |
| Size Range      | 1 1/2" - 24" |



### DISMANTLING JOINTS



### EXPANSION JOINTS



For additional options and details, please contact us.

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