



# Tulsa Valve

*We Control The Flow*



## Shut-Off Pig Valves

ISO 9001:2000 Certified  
Certificate No. C2007-01814

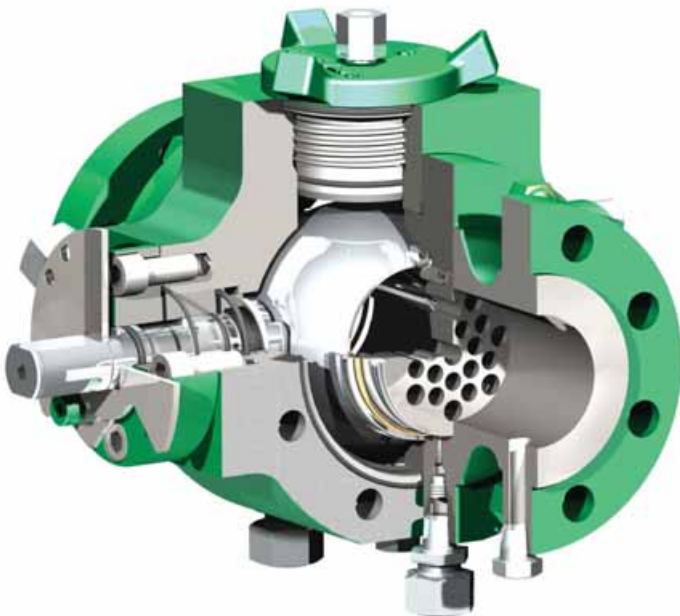




**Carbon Steel - Alloy Steel - Stainless Steel**

#### Key Benefits:

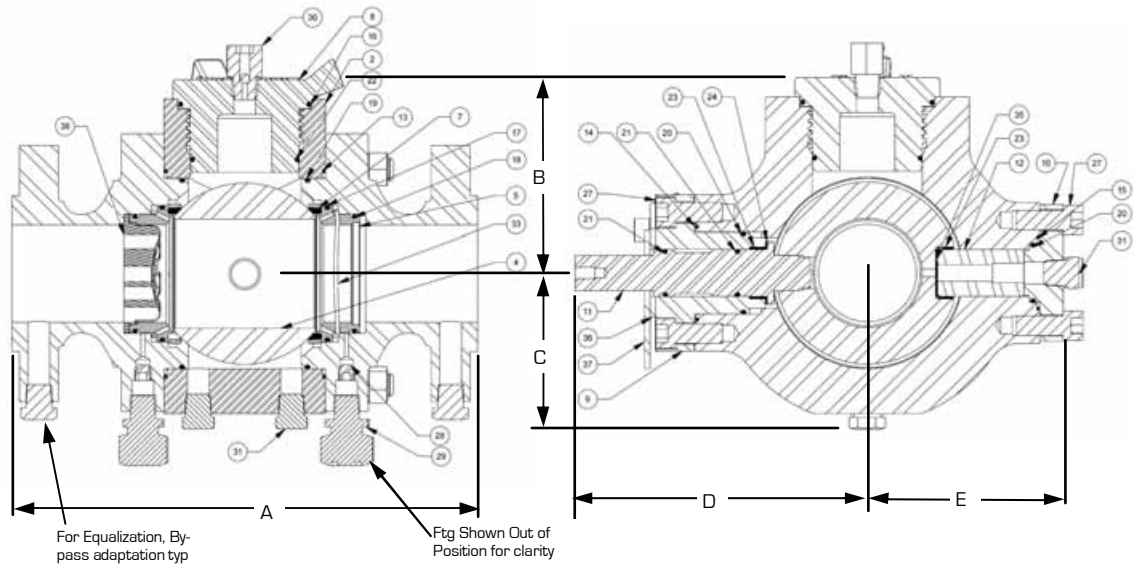
- Reduces cost
- Reduces the number of valves and controls required in traditional pig launching skids
- Can be configured and used for both launching and receiving
- Multiple pig launching systems available direct from the factory.
- Wrought construction reducing the need for special NDE requirements.



**Shut-Off Pig Valves** are designed first and foremost as a state of the art Shutoff Valve. Each aspect of the valve is engineered to perform under the harshest conditions. The valve is designed as a trunnion mounted ball valve. As indicated from the name, the valve completely shuts off the flow of the piping and can be used as a single block and bleed or double block and bleed valve. For certain applications a by-pass can be installed. The Shut-Off Pig Valve is bi-directional and can be used as both a launcher or a receiver. The valve can use most types of pigs including Bullet, Scraper and Spherical pigs, all in one configuration. Tulsa Valve performs 100% pressure testing on all of our Shut-Off Pig Valves. Designed in accordance with ASME B16.34, API, and NACE requirements.

#### Features Include:

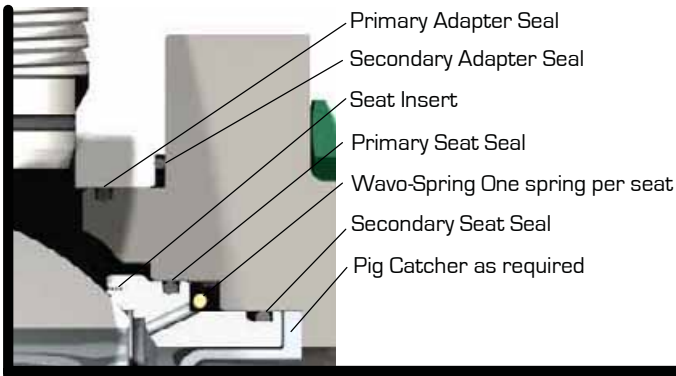
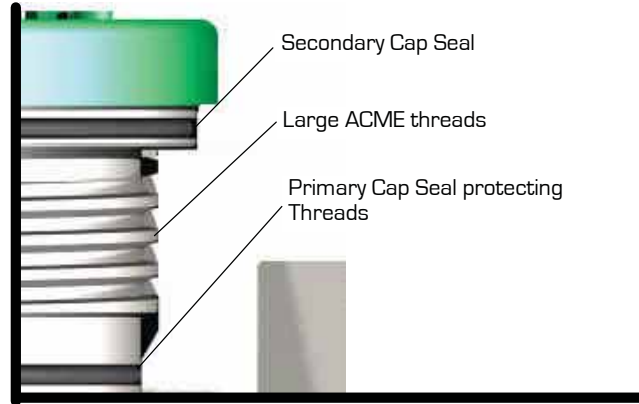
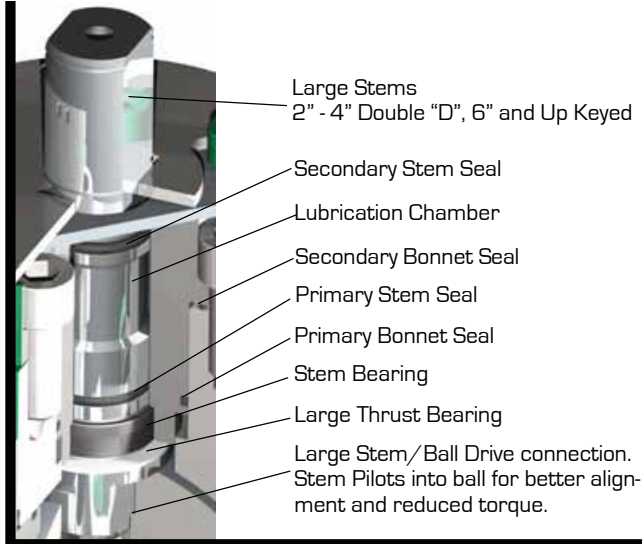
- Trunnion mounted ball
- Proven shut-off design with energized upstream sealing seat
- Automatic body cavity venting downstream provided by arranged seats
- Offers a wide range of fluid compatibility and flexibility due to lip seal or o-ring designs
- Available in carbon steel, stainless steel, and exotic alloys
- Bonnet, entry cap and adapters are double sealed for maximum safety
- Temperature ranges from - 50 to 400 degrees Fahrenheit
- Pressure classes of ASME 150 to ASME 1500
- Tested to API 6D, API 598 or ASME B16.34
- Emergency seat sealant injection fittings with buried check valves
- Double block and bleed capability with body drain and vent
- Entry cap equipped with body cavity vent
- Available with a lockable stop plate in the open or closed positions
- Unlimited size range from 2" and above
- Available with positive shut off bypass valving
- Covered by CRN #OC08722.2



## Dimensions/Specifications

DESCRIPTION	A	B	C	D	E	BALL CORE ID	APPROX WT
2" 150 RF	11.50	4.62	4.12	5.81	4.87	2.50	119
2" 300 RF	14.25	4.62	4.12	5.81	4.87	2.50	130
2" 600 RF	14.25	4.62	4.12	5.81	4.87	2.50	150
2" 600 RTJ	14.62	4.62	4.12	5.81	4.87	2.50	150
2" 900 RF	14.50	4.62	4.12	5.81	4.87	2.50	150
2" 900RTJ	14.62	4.62	4.12	5.81	4.87	2.50	150
3" 150 RF	12.75	6.38	4.75	8.38	6.25	3.56	175
3" 300 RF	14.00	6.38	4.75	8.38	6.25	3.56	200
3" 600 RF	14.00	6.38	4.75	8.38	6.25	3.56	200
3" 600 RTJ	14.12	6.38	4.75	8.38	6.25	3.56	200
3" 900 RF	16.50	6.38	4.75	8.38	6.25	3.56	220
3" 900RTJ	16.62	6.38	4.75	8.38	6.25	3.56	220
4" 150 RF	15.50	7.50	5.62	10.75	7.88	4.56	255
4" 300 RF	16.00	7.50	5.62	10.75	7.88	4.56	275
4" 600 RF	17.00	7.50	5.62	10.75	7.88	4.56	300
4" 600 RTJ	17.12	7.50	5.62	10.75	7.88	4.56	300
4" 900 RF	18.00	7.50	5.62	10.75	7.88	4.56	300
4" 900 RTJ	18.12	7.50	5.62	10.75	7.88	4.56	300
6" 150 RF	18.00	9.00	7.12	12.12	9.25	6.75	655
6" 300 RF	18.88	9.00	7.12	12.12	9.25	6.75	700
6" 600 RF	22.00	9.00	7.12	12.12	9.25	6.75	740
6" 600 RTJ	22.12	9.00	7.12	12.12	9.25	6.75	740
6" 900 RF	24.00	9.00	7.12	16.63	9.50	6.75	740
6" 900 RTJ	24.12	9.00	7.12	16.63	9.50	6.75	740
8" 150 RF	25.00	12.00	11.50	19.12	12.62	9.00	2450
8" 300 RF	26.00	12.00	11.50	19.12	12.62	9.00	2450
8" 600 RF	29.00	12.00	11.50	19.12	12.62	9.00	2550
8" 600 RTJ	29.12	12.00	11.50	19.12	12.62	9.00	2550
8" 900 RF	33.50	12.00	11.50	19.12	12.62	9.00	2650
8" 900 RTJ	33.50	12.00	11.50	19.12	12.62	9.00	2650

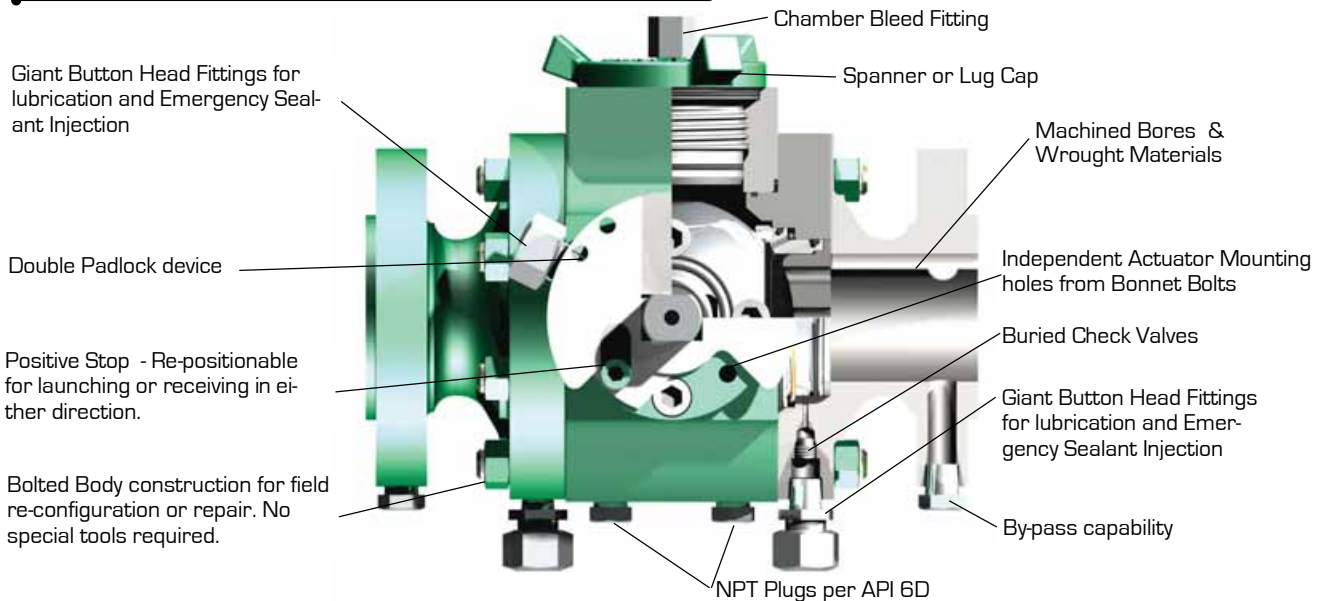
## Design Details and Benefits



Alternate Designs available utilizing Lip Seals instead of O-rings. Please Consult the factory for the Lip Seal version of this valve.

Virtually any material available to meet specific applications. Consult the factory for specific material configurations and options not listed.

Ring Joint, Buttweld and Raised face end connections in any combination are available.



## Optional Equipment

### By-Pass Equalization Piping

Every Tulsa Valve pig valve is furnished with the capability to add By-pass or Equalization piping with out any special ordering. Each adapter pipe flange is drilled and tapped with an appropriate NPT thread to accept additional piping configurations. Piping may be added to equalize the Upstream line pressure into the Ball cavity to reduce the valve operating torques and lower the sudden shock of pressure when the valve is cycled open to launch a pig.

The piping may alternatively be added to allow the fluid in the pipeline to completely by-pass the ball and continue flowing downstream and still allow the pig to be safely inserted or removed from the valve. The built in by-pass only allows a minimal amount of flow and is intended for non-severe applications. A larger, higher flow by-pass is offered separate from the valve and can be built into the system to allow full flow around the closed valve.

### Automating Tulsa Valve Shut-Off Pig Valves

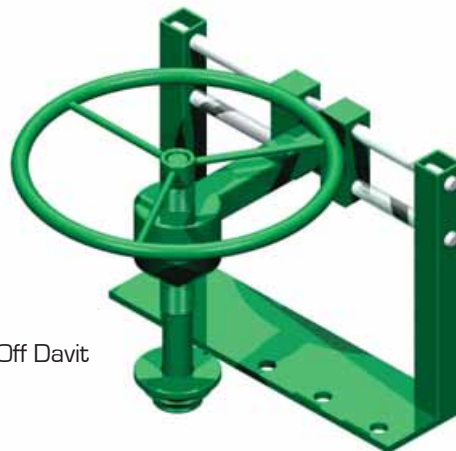
All Tulsa Valve Shut Off Pig valves are ready for adding any type of Automation including Pneumatic, Electric and Manual actuators. The stem top works provides drilled and tapped bolt holes independent of the bolts that hold the bonnet onto the valve. This allows for the installation of actuation while the valve is in service.

A simple interface is possible to easily adapt the actuator to the valve and certified dimensional data is available upon request.

Please consult the factory for torque requirements and mounting dimensions.

### Davit Assemblies

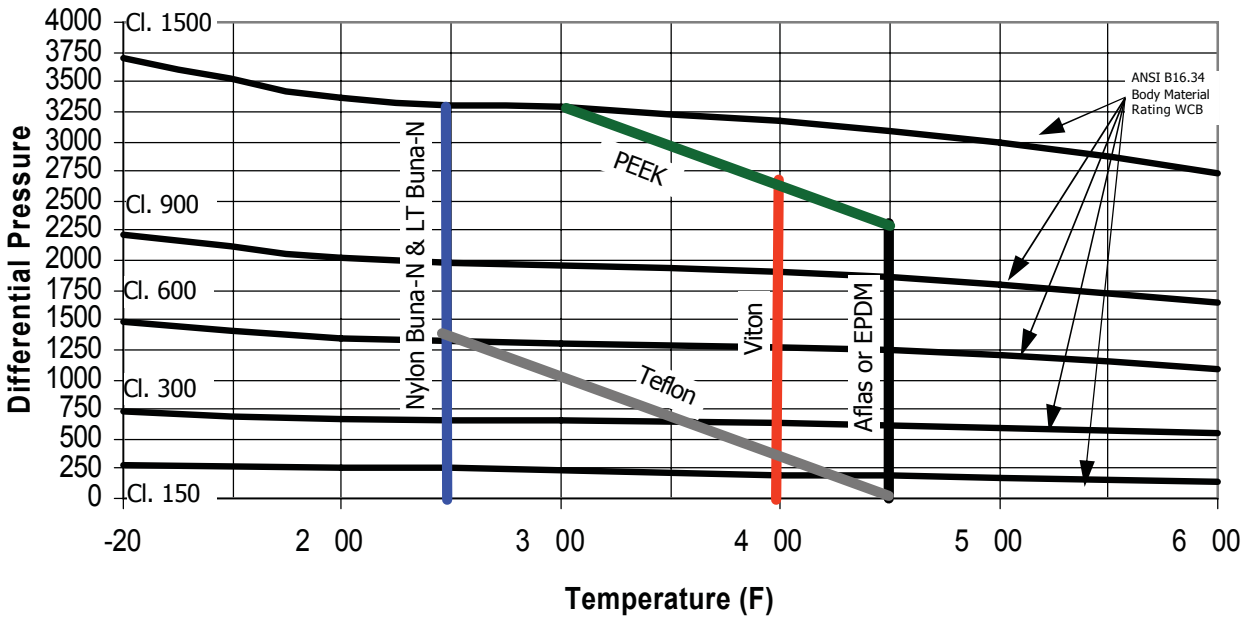
Larger Valves may require Davits to lift the cap off the valve safely. Davit assemblies can be provided in either a swing type configuration or a sliding configuration. The Swing type is best used in horizontal applications and the sliding type is used when the valve is installed vertically.



Shut-Off Davit

## Pressure Temperature & Seal Data

### Pressure Temp Chart



### Low Temperature limits for Metallic and Soft Seals

Body Materials	Degrees F	Degrees C
WCB/WCC/A105	-20	-29
LCC/LF2	-50	-46
CF8M/316 SS	-50	-46

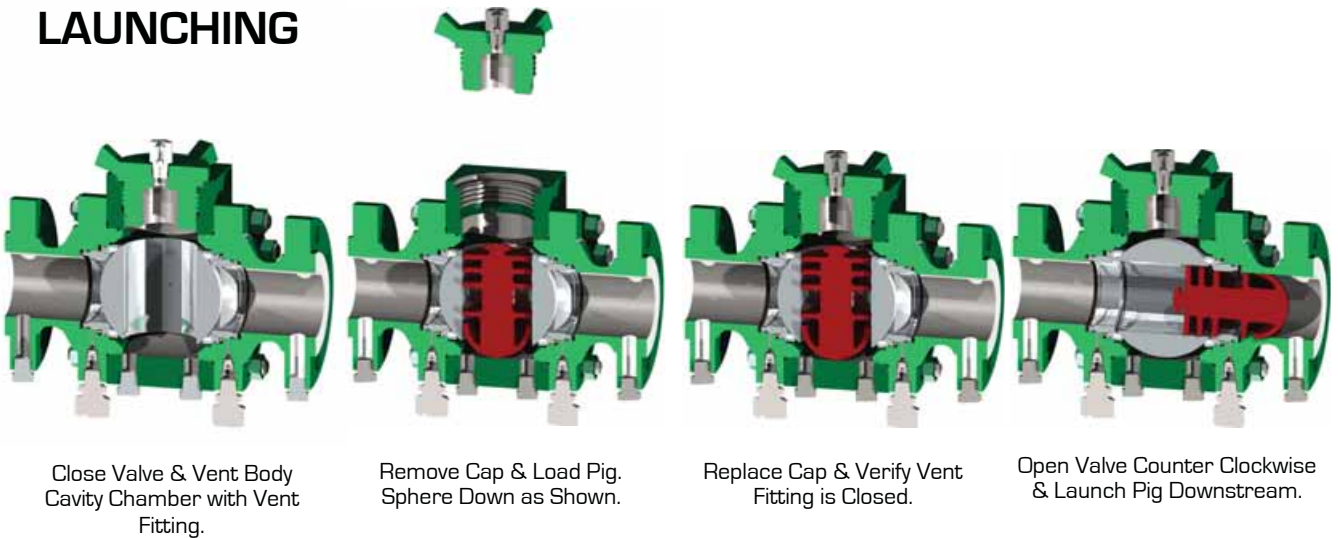
Seat Materials	Degrees F	Degrees C
Nylon	-50	-46
Teflon	-50	-46
PEEK	-50	-46

Seal Materials	Degrees F	Degrees C
Buna-N	-30	-34
Low Temp Buna	-50	-46
Viton	-20	-29
Aflas	+32	0
EPDM	-50	-46

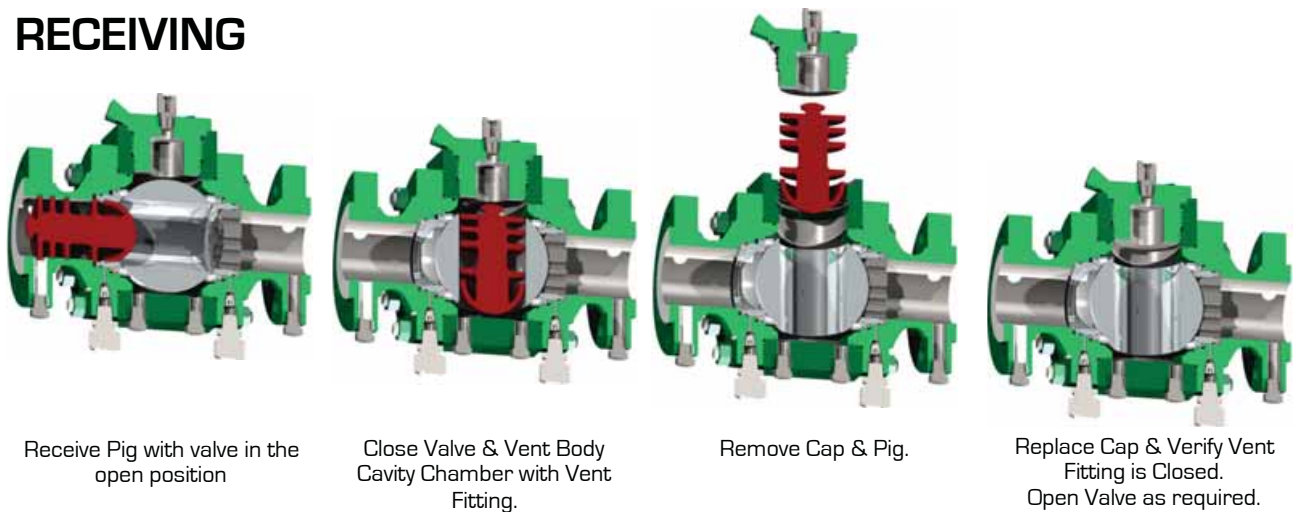
Other metallic, elastomeric and plastic materials available upon request. Certain conditions and media may affect these ratings. Please consult the factory for more detailed information regarding your application.

## Operating Procedures

### LAUNCHING



### RECEIVING



Caution: Care should be taken to follow the procedures exactly as specified in Tulsa Valve's Operating Manual. The Above is for illustration and reference information only. After the valve has been vented and is completely relieved of pressure the body drains at the bottom of the valve may be opened to drain the body cavity as required. Care should be taken to catch any liquid that may drain from the valve. Do not dump liquid on the ground as this may cause contamination. Fluid or gas in the valve may be toxic and caution should be taken when opening any valve to atmosphere. Please Consult Tulsa Valve's Operating Manual prior to operating the valve.

# Shut-Off Pig Valves



Tulsa Valve is an oil field and industrial valve manufacturer. Tulsa Valve Products are made of the highest quality materials and workmanship. We test every valve to the appropriate standards and maintain material and product traceability on all valves. Our valves are designed to meet the customers best expectations and we pride ourselves on our ability to meet these expectations.

**Products we manufacture:** Ball Check Valves, Threaded Swing Check Valves, Shut-off Pig Valves, By-pass Pig Valves, Casing Ball Valves, and Flanged Check Valves.

*Tulsa Valve is a member of Array Holdings, a group of affiliated companies proudly serving the domestic and international energy industry.*

## Terms and Conditions

**Warranty:** Tulsa Valve products are guaranteed against defects of material workmanship for One (1) Year from date of invoice provided such products are used normally and within the service and pressure range for which they were manufactured. This guarantee is limited to the repair, replacement or repayment of purchase price. Under no conditions will Tulsa Valve be liable for claim of labor for removal, repair or replacement of Tulsa Valve products, or any other consequential damage.

**Cancellation:** Firm orders which have been accepted and entered are not cancellable except by written authorization from Tulsa Valve, unused material may be returned upon written consent from Tulsa Valve and credit will be issued only on material returned within one year from date of purchase. Tulsa Valve reserves the right to deduct reconditioning and handling charges when issuing credit for returned material. Credit may be used only for the purchase of merchandise and is not subject to cash reimbursement or cash payments.



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