

# Gate, Globe & Check Installation Manual

SCV Valve, LLC 3521 FM 646 Rd. North Santa Fe, TX 77510

An API 6D & API 6A Monogrammed Company

# Complete Product Line

Call SCV Valve today @ [281] 482-4728 for all your valve needs or visit us on the web @ www.scvvalve.com.



#### **BOLTED COVER FULL PORT SWING CHECKS** Carbon & Stainless

Sizes: 2" - 36" Class: 150 - 2500 Design: API 6D

#### FLOATING BALL VALVES -1-PIECE REDUCED PORT & 2-PIECE FULL PORT Carbon & Stainless

Sizes: 1/2" - 12" Class: 150 - 1500 Design: B16.34



#### **COVER PISTON CHECKS** Carbon Steel



#### **3-PIECE TRUNNION BALLS**

Carbon & Stainless

Sizes: 2-1/16" - 13-5/8" Pressure: 2000, 3000 & 5000



#### **THRU CONDUIT GATES -SLAB & EXPANDING Carbon Steel**

Sizes: 2" - 42' Class: 150 - 1500 Design: API 6D



#### **DUAL PLATE CHECKS - WAFER & LUG** Carbon & Stainless

Wafer Sizes: 1.5" - 36" Wafer Class: 150 - 2500 Lug Sizes: 2" - 36" Luq Class: 150 - 900



#### **3-PIECE TRUNNION BALLS** Carbon & Stainless

Sizes: 2" - 42"

Class: 150 - 2500



#### **BOLTED BONNET GLOBES**

#### Carbon & Stainless

Sizes: 2" - 24" Class: 150 - 2500



#### PRESSURE BALANCED **LUBRICATED PLUGS Carbon Steel**

Sizes: 2" - 36" Class: 150 - 2500 Design: API 6D



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The trouble - free performance of a valve largely depends on the selection of a right valve for the job followed by proper storage, Neat Installation gentle operation and timely maintenance. Please follow the guidelines given for the valve to function well to your satisfaction.

#### 1. GENERAL

- 1.1 Upon delivery, inspect the valve for any shipping damage.
- 1.2 As per the packing-slip placed inside the box, verify the goods received, items packed loose within the box are separately identified in the packing slip check for short supply, if any.

#### 2. STORAGE

2.1 Do not take - off the end protectors until installation.

**Caution:** Avoid possible entry of any foreign matter such as water, dirt, mud, sand, etc, into the valve in order to protect the lapped sealing faces of the valve seats.

#### 3. INSTALLATION

- 3.1 Valve conforming to the customer's specification in all respects is duly tested prior to dispatch, however ensure once again that specifications mentioned over the name plate are in line with your requirements with regard to size, Material of construction, working pressure etc.
- 3.2 Alignment and proper supports for the pipings are essential to prevent unwanted stresses in the valves.

**Caution:** Blow-out or flush the pipe lines thoroughly before valve installation, of not, the hard particles left within the pipe line can easily ruin the seating faces-A common cause for most of the valve failures.

- 3.3 Ensure that valves is freely accessible to the operator.
- 3.4 Mating flange faces should be clean for proper sealing at the joint.
- 3.5 GATE/GLOBE VALVES: The actuating stem will project out while opening and hence provide enough head room.
- 3.6 Take off end-protectors just prior to the installation.
- 3.7 CHECK VALVES: Remove additional packing stuff placed inside the valve bore.

**Caution:** Correct actuator calibration is critical for proper valve performance and longevity. Incorrect TRAVEL LIMIT and TORQUE LIMIT settings can result in catastrophic valve failure!

**Important:** SCV recommends that all actuation is installed and calibrated in a controlled testing environment. Utilize a hydro-test to simulate the targeted operating conditions while setting TRAVEL LIMITS and TORQUE LIMITS.

#### 4. DIRECTION OF MOUNTING

#### 4.1 GATE VALVE

4.1.1 Can be mounted for flow in either direction it can be installed both in horizontal and vertical pipe - lines however preferred mounting is in horizontal pipe-line with the stem in upright position.

#### 4.2 GLOBE VALVE

4.2.1 Is generally mounted in such a way that fluid pressure should act beneath the disc however, when operating conditions are very severe, like high temperature steam, the other way may be desired it can be installed both in horizontal and vertical pipelines, however, preferred mounting is in horizontal pipe-line with the stem in upright position.

#### 4.3 CHECK VALVE

4.3.1 Should be mounted with flow tending to open the disc. Body exterior has an arrowhead to indicate the direction of flow. It can be installed both in horizontal and vertical pipe-lines if vertical, flow has to be in upward direction only-however preferred mounting is in horizontal pipelines.

### 5. OPERATION (GATE & GLOBE VALVE)

- 5.1 After installation, Operate the valve slowly up and down and ensure free movement of the stem.
- 5.2 All external lootings of the valve may be checked to ensure that they have not got loosened during transit, storage or handling.
- 5.3 Never use a wrench and try to achieve tight shut-off the torque through the handwheel is sufficient to seal the pressure
- 5.4 When valve is fully opened, screw it down about a guarter turn to prevent sticking.

**Caution:** Do not use the gate valve for throttling left partly open or cracked open, the wedge would erode rapidly and may cause a severe damage to the seat faces.

- 5.5 Some more greasing may be done at the stem threads if required.
- 5.6 Direction of handwheel rotation facing the handwheel, clockwise rotation to close the valve and counter-clockwise rotation to open the valve.

#### 6. MAINTENANCE

- 6.1 The valve hardly needs any maintenance regular greasing at the stem threads an periodic cleaning of the seat faces would keep the valve smooth and efficient in its function.
- 6.2 The moment any trouble is noticed with the valve examine and take corrective action if attended.
- 6.3 Do not attempt any modifications/repairs arbitrarily. Utilize our services when required.

Important: It is easy to identify the valve by the serial number punched on the valve body. Try to quote the same whenever referring to us.

#### 7. RECOMMENDED SPARES

- 7.1 GATE VALVE
  - 7.1.1 Pressure seal ring (Applicable for class 900,1500 & 2500 Only)
  - 7.1.2 Packing
  - 7.1.3 Gasket
  - 7.1.4 Soft seal ring (Applicable for soft seated valves only)
- 7.2 GLOBE VALVE
  - 7.2.1 Pressure seal ring (Applicable for class 900,1500 & 2500 Only)
  - 7.2.2 Packing
  - 7.2.3 Gasket
  - 7.2.4 Soft seal ring {Applicable for soft seated valves only}
- 7.3 SWING CHECK VALVE
  - 7.3.1 Pressure seal ring {Applicable for class 900,1500 & 2500 Only}
  - 7.3.2 Gasket
  - 7.3.3 Soft seal ring (Applicable for soft seated valves only)

## **TROUBLESHOOTING**

TROUBLE	POSSIBLE CAUSE & REMEDY (KEY NO.)*
Seat leakage <sup>a)</sup>	1, 2, 3, 4, 5, 6
Back seat leakage <sup>b)</sup>	7, 8, 9
Stem OD gets deep scoring along the length <sup>bj</sup>	10, 11
Leakage through packing <sup>b)</sup>	12, 13, 14
Leakage through body-to-bonnet/cover joint ©	15, 16, 17
Leakage across pressure seal ring <sup>c)</sup>	18, 19, 20
Seat faces get damaged in short duration ©	21
Gear actuator handwheel is stuck and cannot be rotated <sup>b]</sup>	22
Gear actuator rotates but stem does not move up or down b)	23
Gear actuator's operation is noisy and not smooth <sup>b)</sup>	24
Pneumatically operated (piston type) valve does not take either full seating or full back seating $^{\rm bj}$	25

No.	Possible Reason	Remedy
1	Pipelines were not properlly flushed prior to installation	Flush pipelines thoroughly
2	Sealing faces of seats and wedges are damaged	Remove the damaged areas by machining (if necessary) and lapping
3	Soft seat ring (if required) is damaged	Replace the soft seat ring
4	Body-to-seat threaded joint is leaking because of damage on body face or seat's back face	Remove the damaged areas by machining (if necessary) and lapping
5	Body-to-seat seal-weld joint leaking	Weld the leaking spot
6	Operating torque is insufficient, in case or motor-operated or piston actuated gate/globe valves	In case of motor operated torque, setting can be regulated from 40% to 100% and incase of piston actuator
7	Back seat sealing faces of stem, collar and bonnet are damaged	Remove the damaged areas by machining (if necessary) and lapping
8	Bonnet-to-bonnet bushing	Weld the leaking spot
9	Bonnet-to-bonnet bushing press fitted joint is leaking	Remove the damage if any and lap the bonnet face and 5° back-face of binnet bushing
10	Back seat bore is not concentric to stem c/I	Maintain concentricity
11	Packing contains foreign matter and hard particles	Replace with clean packing
12	Compression load on packing is insufficient	Tighten the gland flange nut further
13	Packing have worn out	Operate the valve to full-open to take the backseating and install additional packing or replace all the packing
14	Scoring on the stem OD along sealing length	Avoid scoring (refer to 9 and 10)
15	Gasket sealing faces of body and bonnet/cover are damaged	Remove the damage marks
16	Gasket is damaged	Replace
17	Body bolting is not properly tightened	Bolting should be tightened in a uniform criss-cross pattern to the specified torque
18	Insufficient pre-load	Tighten bolt-to-yoke nut
19	Pressure seal ring is damaged	Replace
20	Sealing faces in contact are damaged	Remove damage
21	Hardness in low for the service conditions	Provide increased hardness for the seat faces (eg: Stellite 6)
22	Gear teeth broken	Replace
23	Mating gear teeth have insufficient engagement	Replace
24	Grease inside the gear case is insufficient or is contaminated	Fill extra grease or replace
25	Gap between stem ends at the coupling is set less or more respectively	Reset the gap appropriatley

### 8. GENERAL ARRANGEMENT OF CONSTRUCTION

8.1 Refer general assembly drawing.

# 9. ASSEMBLY/DISASSEMBLY

9.1 Refer assembly - specifications of the standard valves supplied on request.

### **10. APPLICABILITY**

- 10.1 ALL VALVES
- 10.2 GATE & GLOBE VALVES
- 10.3 GATE, GLOBE & SWING CHECK VALVES

# LOW F.E. PROVEN

www.scvvalve.com

# Performance Exceeds Requirements for ISO 15848-1:2015 Fugitive Emission Testing

3-Piece Trunnion Ball Valves - API 6D

Face-to-Face Dimension: API 6D

■ Basic Design: API 6D

Wall Thickness: API 6D

Full & Reduced Port - Bolted & Welded Body Construction

Flange End Dimension: ANSI/ASME B16.5 [1" to 24"],

SCV FF 122617.1

SCV Valve's newly designed API 6D 3-Piece Trunnion Mounted Ball Valve was built to exceed the performance requirements for specification ISO 15848-1:2015 (Fugitive Emission Testing\*).

#### **Standard Features**

- Low fugitive emissions rated
- Triple barrier stem seal system
- Spring energized self-relieving seats standard stocking configuration
- Double piston effect sealing
- Double block and bleed capability standard with SPE design
- Secondary sealant injections



# Meet the Family

www.scvvalve.com

# The "Go-To Source" For All Your Valve Needs

SCV Valve's product family has you covered for all of you upstream, midstream and downstream applications. Take advantage of ourlarge ready-to-ship inventory of standard and hard-to-find valves. Call us today @ [281] 482-4728, for fast delivery!

#### **API 6D Piston Checks**

- Size: 2" 24"
- Class: 150 2500

#### **API 6A Trunnion Balls**

- Size: 2-1/16" 13-5/8"
- Pressure: 2K, 3K, & 5K

#### **API 6D Lubricated Plugs**

- Size: 2" 36"
- Class: 150 2500

#### **API 6D Trunnion Balls**

- Size: 2" 42"
- Class: 150 2500

#### **API 623 Globes**

- Size: 2" 24"Class: 150 2500

#### **API 6D Thru Conduit Gates**

- Size: 2" 42"
- Class: 150 2500

#### API 600 Gates

- Size: 2" 48"Class: 150 2500

#### API 594 Dual Plate Checks B16.34 Floating Balls

- Size: 1.5" 36"
- Class: 150 2500

- Size: 1/2" 12"
- Class: 150 1500







# Industry Standards for Valve Manufacturing

#### This information is for reference only.

#### American Society of Mechanical Engineers (ASME)

ASME Code - Boiler & pressure vessel code

ASME A13.1 - Scheme for the identification of piping systems

ASME B1.1 - Unified inch screw threads, UN, & UNR thread form

ASME B1.5 - ACME screw threads

ASME B1.7M - Nomenclature, definitions, & letter symbols for screw threads

ASME B1.8 - Stub ACME screw threads

ASME B1.12 - Class 5 interference - fit thread

ASME B1.20.1 - Pipe threads, general purpose, inch

ASME B1.20.3 - Dry-seal pipe threads, inch

ANSI/ASME B16.1 - Cast iron pipe flanges & flanged fittings

ANSI/ASME B16.5 - Pipe flanges & flanged fittings: NPS 1/2" - 24"  $\,$ 

ASME B16.9 - Factory made wrought steel buttwelding fittings

ANSI/ASME B16.10 - Face-to-face & end-to-end dimensions of valves

ASME B16.11 - Forged fittings, socket welding  $\boldsymbol{\vartheta}$  threaded

ASME B16.20 - Metallic gaskets for pipe flanges: ring joint spiral wound & jacketed

ASME B16.21 - Non-metallic flat gaskets for pipe flanges

ASME B16.25 - Buttwelding ends

ANSI/ASME B16.33 - Manually operated metallic gas valves for use in gas piping systems up to 125 PSI (sizes NPS 1/2" - 2")

ANSI/ASME B31.1 - Power piping ANSI/ASME B31.3 - Process piping

ANSI/ASME B16.34 - Valves flanged, threaded & welding end

ANSI/ASME B16.36 - Orifice flanges

ANSI/ASME B16.38 - Large metallic valves for gas distribution (manually operated, NPS 2-1/2" - 12", 125 PSIG maximum)

ANSI/ASME B16.42 - Ductile iron pipe flanges & flanged fittings: classes 150 & 300

ANSI/ASME B16.47 - Large diameter steel flanges

ANSI B17.1 - Keys & keyseats

ANSI B18.2.2 - Square & hex nuts

ASME B31.4 - Pipeline transportation systems for liquid hydrocarbons & other ammonia & alcohols

ANSI/ASME B31.8 - Gas transmission & distribution piping systems

ANSI/ASME B36.10 - Welded & seamless wrought steel pipe

ANSI/ASME B36.19 - Stainless steel pipe ANSI FCI-2 - Control valve seat leakage

#### American Society Non-destructive Test (ASNT)

ASNT-TC-1A - Recommended practice no. SNT-TC-1A 1996

#### American Society for Testing and Materials (ASTM)

#### American Petroleum Institute (API)

API RP 574 - Inspection practices for piping system components

API 589 - Fire test for evaluation of valve stem packing

API RP 591 - Process valve qualification procedure
API 594 - Check valves-flanged, lug, wafer & buttwelding

API 597 - Steel venturi gate valves, flanged, buttwelding ends

API 597 - Steel venturi gate valves, flanged, buttwelding API 598 - Valve inspection & testing

API 599 - Metal plug valves - flanged, welding ends

API 601 - Metallic gaskets for raised-face pipe flanges & flanged connections (double-jacketed corrugated & spiral wound)

API 600 - Bolted bonnet steel gate valves for petroleum & natural as industries "ISO adoption from ISO 10434"

 $API~602-Steel~gate,~globe,~\theta~check~valves~for~sizes~DN100~and~smaller~for~the~petroleum~\theta~natural~gas~industries~defined and the contraction of the petroleum~defined and the contraction of the contract$ 

API 603 - Corrosion-resistant, bolted bonnet gate valves-flanged  $\boldsymbol{\theta}$  buttweld ends

API 604 - Ductile iron gate valves, flanged ends

API 605 - Large-diameter carbon steel flanges (nominal pipe sizes 26" - 60", classes 75, 150, 300, 400, 600, 6 900 (replaced by ANSI/ASME B16.47)

API 606 - Compact steel gate valves, extended body (included in API 602) fire test for soft-seated quarter-turn valves "ISO adoption from ISO 10497-5 2004"

API 607 - Fire test for soft-seated quarter-turn valves "ISO adoption from ISO 10497-5 2004"

API 608 - Metal ball valves, flanged, threaded, & welding ends

API 609 - Butterfly valves-double flanged, lug- & wafer-type

API RP 941 - Steel for hydrogen service at elevated temperatures & pressures in petroleum refineries & petrochemical plants

API RP 520, Part 1 - Sizing, selection  $\theta$  installation of pressure relieving devices in refineries

API RP 520, Part 2 - Sizing, selection & installation of pressure relieving devices in refineries devices in refineries

API Spec 6A - Specification for wellhead & christmas tree equipment

API Spec 6D - Specifications for pipeline valves

API Spec 14D - Specifications for wellhead surface safety valves & underwater safety valves for offshore service

 $\label{eq:APISB-Threading} \textit{APISB-Threading}, \textit{gauging thread inspection of coring, tubing, } \textbf{\& line pipe threads}$ 

API 6AM - Material toughness

API 6FA - Fire test for valves

API 6FC - Fire test for valves with backseats

API 6FD - Specification for fire test for check valves

API Q1 - Specification for quality programs for the petroleum, petrochemical,  $\Theta$  natural gas

#### National Association of Corrosion Engineers (NACE)

MR0175 - Sulfide stress cracking resistant metallic materials for oil field equipment

MRO103 - Materials resistant to sulfide street cracking in corrosive petroleum refining environments

#### **Canadian Standards Association**

B51-97 - Boiler, pressure vessel, & pressure piping code

Z245.15-96 - Steel valves

CAN3-z299.4-85 - Quality assurance program - Category 4

CAN3-z299.3-85 - Quality assurance program - Category 3

#### **British Standards Institute (BS)**

BS 1414 - Gate, wedge & double disk valves: steel

BS 1868 - Check valves: steel

BS 1873 - Globe & check valves: steel

BS 2080 - Flanged & buttweld end steel valves

BS 5146 - (withdrawn) Replaced by BS 6755 p.1 steel valves testing (1986) & BS 6755 p.2 (1984)

BS 5152 - Globe & check: ca

BS 5153 - Check: cast iron

BS 5159 - Ball: cast iron & carbon steel

BS 5160 - Globe & check: steel

BS 5163 - Gate, wedge & double disk: cast iron

BS 5351 - Ball: steel

BS 5352 - Globe & check: steel

BS 5418 - (withdrawn) Replaced by BS EN 19 (1992) marking: general purpose industrial

BS 5840 - Valve mating details for actuator operation

BS 6364 - Cryogenic

BS 6683 - Guide: installation & use of valves

BS 6755: Part 1 - Specification for production pressure testing requirements

BS 6755: Part 2 - Specification for fire type-testing requirements

BS FN 19 - Marking of general purpose industrial valves

#### International Organization for Standardization

ISO 5211/1 - Industrial valves- part-turn actuator attachments

ISO 5211/2 - Part-turn valve actuator attachment-flange & coupling performance characteristics

ISO 5211/3 - Part-turn valve actuator attachment-dimensions of driving components

ISO 5752 - Metal valves for use in flanged pipe systems face-to-face & center-to-face dimensions

ISO 9000 - Quality management systems and fundamentals & vocabulary

ISO 10012-1 - Quality assurance requirements for measuring equipment

#### **Manufacturers Standardization Society**

SP-6 - Standard finishes for contact faces of pipe flanges & connecting-end flanges of valves & fittings

SP-9 - Spot facing for bronze, iron & steel flanges

SP-25 - Standard marking system for valves, fittings, flanges & unions

SP-42 - Class 150 corrosion resistant gate, globe, angle, & check valves with flanged & buttweld ends

SP-44 - Steel pipeline flanges

SP-45 - Bypass & drain connections

 $\mbox{SP-51}$  -  $\mbox{Class }150/\mbox{w}$  corrosion resistant cast flanges & flanged fittings

SP-53 - Quality standard for steel castings & forgings for valves, flanges, & fittings & other piping components: magnetic particle exam method

SP-54 - Quality standard for steel castings for valves, flanges, & fittings and other piping components: radiographic

SP-55 - Quality standard for steel castings for valves, flanges other piping components-visual method for evaluation of surface irregularities

SP-60 - Connecting flange joint between tapping sleeves & tapping valves

SP-61 - Pressure testing of steel valves

SP-65 - High pressure chemical industry flanges & threaded stubs for use with lens gaskets

SP-67 - Butterfly valves

SP-69 - ANSI/MSS edition pipe hangers & supports, selection & application SP-70 - Cast iron gate valves, flanged & threaded ends

SP-71 - Gray iron swing check valves, flanged & threaded ends

SP-72 - Ball valves with flanged or butt-welding ends for general service

SP-79 - Socket-welding reducer inserts SP-81 - Stainless steel, bonnetless, flanged knife gate valves

SP-82 - Valve pressure testing methods

SP-82 - Valve pressure testing methods
SP-84 - Valves - socket welding & threaded ends

SP-85 - Cast iron globe & angle valves, flanged & threaded ends

SP-86 - Guidelines for metric data in standards for valves, flanges, fittings & actuators

SP-88 - Diaphragm valves

SP-91 - Guidelines for manual operation of valves

SP-91 - Guidelines for manual SP-92 - MSS valve user guide

SP-93 - Quality standard for steel castings & forgings for valves, flanges & fittings & other piping componentsliquid penetrant exam method

SP-94 - Quality standard for ferritic & martensitic steel castings for valves, flanges, & fittings and others piping components - ultrasonic exam method

SP-96 - Guidelines on terminology for valves & fittings

SP-98 - Protective coatings for the interior of valves, hydrants, & fittings

SP-99 - Instrument valves

SP-101 - Part-turn valve actuator attachment-flange and driving component dimensions & performance characteristics

SP-102 - Multi-turn valve actuator attachment: flange and driving component dimensions & performance characteristics

SP-102 - Multi-turn valve actuator attachment: flange and driving component dim SP-110 - Ball valves threaded, socket-welding, solder joint, grooved, & flared ends

SP-117 - Bellows seals for globe & gate valves

SP-118 - Compact steel globe and check valves-flanged, flangeless, threaded & welding ends (chemical & petroleum refinery service)

SP-120 - Flexible graphite packing system for rising stem steel valves (design requirements)

SP-121 - Qualification testing methods for stem packing for rising stem steel valves

# Terms & Conditions

#### **Quotation Validity**

This quotation is valid for 30 days from the date quotation is sent. Validity on special metals, including Stainless Steel, is 14 days from the date the quotation is sent. All products offered from stock are subject to prior sale.

#### **Shipments**

All items quoted are EXW our Dock - [Ex Works - SCV Valve Facility Sante Fe, Texas 77510] - unless otherwise noted and agreed to in writing. Shipment may be billed either third party billing to the buyer or freight collect. Shipment dates offered above are forecasted delivery lead times and are estimated from the date payment terms [acceptable to seller] are established, clarification is received on all technical information, and resolution of customer's written approval of drawings is received (when required). The equipment quoted shall be packed in accordance with seller's standard packing procedure unless otherwise noted and agreed to in writing by the seller.

#### **Force Majeure**

If in the case of an act of God, war, riot, fire, explosion, flood, or any other circumstances of whatsoever nature which are beyond the control of the seller and which in any way affect the ability of the seller to fulfill its delivery obligations, the delivery is hindered, impeded, or delayed the seller shall be exonerated from all responsibilities and reserves the right to postpone the delivery beyond the original schedule.

#### Payment terms

All terms are to be negotiated. Credit cards accepted (Master Card, Visa, American Express).

#### **Purchase Orders**

All buyer's purchase orders supplied to the seller are to be written in the English language.

#### Prices

All prices quoted are in USD as per the preceding pricing schedule. The minimum order value is \$5,000.00 (five thousand dollars), unless otherwise agreed to by seller. If for some reason any items are changed or additions to the order required, seller reserves the right to adjust prices accordingly. All sales are subject to approval of seller's credit department. If buyer fails to meet the agreed upon and established commercial terms of the contract, the seller may with-hold all subsequent deliveries until such time that the original commercial terms of the contract have been met by the buyer (or subsequent commercial terms have been agreed upon by the seller with the buyer).

#### Intellectual Property

All specifications, illustrations, drawings, certificates, and other particulars supplied by seller remain the intellectual property of the seller and should not be disclosed to any third party without the prior written consent of seller.

#### Governing Law; Arbitration; Jurisdiction

The terms and conditions of this quotation and any subsequent purchase order shall be construed, interpreted, and performed exclusively according to the laws of the State of Texas, USA. The courts of such state shall have exclusive jurisdiction out of all controversies arising out of or in connection with this agreement. The parties consent that process may be served upon them in any such action by registered mail at the address stated for Buyer on its purchase order, and upon SCV Valve at the address noted above in Santa Fe, Texas, or personally within or without the State of Texas. Any legal action with respect to any agreement must be commenced within one year after the cause of action has accrued. The provisions of the Uniform Commercial Code as adopted by the State of Texas, and not under the United Nations Convention on Contracts for the International Sale of Goods, shall apply.

#### Warranty

All seller's products are guaranteed against defects in workmanship for a period of twelve [12] months after being placed in service, but not exceeding eighteen [18] months after shipment, when products are properly installed per seller specifications and used within the service and pressure range for which they were manufactured. Full risk of loss shall pass to the buyer upon delivery at FOB point, or destination port in case of CIF. This guarantee is limited to the replacement of any valve parts/components found to be defective either in material or workmanship. This guarantee does not extend to costs of labor, freight, or any other consequential charges. The unauthorized use of third party components and workmanship in seller's products voids this warranty.

#### **Limitation of Liability**

The liability of the seller under this agreement or with respect to any products supplied or services performed pursuant to this agreement, whether in contract, in tort, in strict liability or otherwise, shall not exceed the purchase price paid by the buyer with respect thereto. In no event will the seller be liable in contract, in tort, in strict liability or otherwise for any special, indirect, incidental, or consequential damages. This is including but not limited to loss of anticipated profits or revenues, loss of use, non-operation or increased expense of operation of equipment, cost of capital, or claims from customer or buyer for failure or delay in achieving anticipated profits or products.

#### Cancellation

No contract may be canceled by the buyer except upon written notice to seller and upon payment to seller of all costs incurred by the contract arising out of, or in connection with, the contract. Export of goods covered hereby is subject to United States Customs Control. Standard stocking items will be subject to a twenty-five percent (25%) restocking and/or cancellation charge. Non-standard stocking items will be subject to a one-hundred percent (100%) restocking and/or cancellation charge.

#### **Cancellation Charge**

The following indicates the rates of cancellation charge of contract value for project manufactured items and/or special engineered items at various stages of production:

· Time of cancellation: Order Acknowledgement and prior to Engineering engagement.

• Time of cancellation: After start of engineering but prior to release to production.

· Time of cancellation: After release to production but prior to completion of fabrication.

· Time of cancellation: After completion of fabrication.

#### Cancellation Charge: 10%

Cancellation Charge: 30% Cancellation Charge: 80%

Cancellation Charge: 100%

#### Return of Goods

No product shall be returned to seller without written authorization and shipping instructions having been obtained from seller. Products authorized for returns are to be shipped freight pre-paid to the SCV Valve Facility identified in writing, unless otherwise notified, and are subject to seller's standard re-stocking fees.

#### Documentation

MTR's are available at no charge upon request. The seller's standard document package is per ISO 104743.1B requirements. Additional requested documentation is subject to charge.

#### Inspection

The customer or his authorized representative may, with four [4] weeks prior notice given to seller, visually inspect products manufactured by seller. Such seller approved inspections will be carried out in accordance with seller's standard or seller approved customer inspection procedures. If any inspection or documentation requested by the customer is over and beyond the scope and criteria initially agreed to by the seller, any costs incurred by conducting such inspection or preparation of special documents shall be paid by the buyer prior to release of the items for shipment.

#### Witness Hydro-testing

Witness hydro-testing is available at a cost. A scope of buyers inspection request is to be provided to seller at order placement. Late notice of such requested inspection is subject to additional costs. The cost associated with such witness hydro request is to be agreed on prior to any such testing taking place. Payment of this type of testing to be negotiated. Additionally, any costs associated with a third party inspector will not be at the sellers expense.

The SCV valve brand was established in 1972 as a maintenance and modification company with the ability to provide full in-line valve service and repair. In the mid-1970's, after experiencing many shortcomings of other valve products in the industry, the first SCV valve was manufactured. Since that time, the SCV brand has been expanded its manufactured products to cover a broad range of valves. Industries served include the power, paper and pulp, oil and gas, and petro-chemical sectors.

SCV Valve takes sincere pride in our ability to manufacture both commodity and specialty valves that meet and exceed the needs of our customers. All sizes, pressure classes, and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure the customer's total satisfaction.

SCV Valve products include thru conduit gates, wedge gates, globes, full port swing checks, piston checks, trunnion mounted balls, floating balls, lubricated plugs, and pressure seal gates, globes and checks. Valves utilized throughout the industry must meet rigorous quality and production standards. SCV Valve has earned its API 6A, API 6D, ISO: 9001, CE-PED, and CRN certifications while operating under the API Q1 Quality Management System.

With years of dedication and commitment to quality, design, and service, SCV Valve has grown to be one of the premier valve manufacturers in the industry with the largest inventory of high pressure ball, gate, and check valves. We pride ourselves on our high quality products, timely delivery capabilities, and competitive prices.

On behalf of all of the members at SCV Valve, we thank you for the opportunity to earn your business.

Sincerely,

Sid McCarra President

SCV Valve, LLC

Since 1972, the SCV brand has been committed to providing quality flow control products to the Power, Paper & Pulp, Oil & Gas, and Petro Chemical industries.

As one of the largest valve manufacturers, SCV Valve's reputation is unparalleled for producing high quality commodity and specialty valves. Products range in sizes 1/2" - 48", in pressure classes from 150# - 2500# and are backed by timely deliveries and competitive prices.

> Call SCV today at [281]482-4728 for all your valve needs or visit us on the web @ www.scvvalve.com.

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