

TexCo Trim,

HIGH PRESSURE CONTROL AND CHECK VALVE COMPONENTS



P.O. BOX 8616 • HOUSTON, TEXAS 77249

1407 WEST PATTON ST • HOUSTON, TEXAS 77009

Normal Business Hours: 8:00 AM to 4:30 PM Monday - Friday.

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Alternate Number:	713-861-1100
Fax Number:	713-861-7152
Toll Free Number (Outside of Texas):	800-847-5742

Email: Sales@texcotrim.com
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We at TexCo Trim realize that unforeseen problems can cause extremely costly unscheduled shutdowns at our customer's plants. In such cases, it is our policy to do everything in our power to get you the material needed to get back into production. Call our main line for emergency support for email us at Sales@texcotrim.com.

Custom Design and Machine of Industrial Equipment requiring the use of Heat Treated & Hard Faced materials.

TEXCO TRIM, INC.
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HOW WE BENEFIT YOU

- High quality service.
- Very competitive pricing.
- Fast turnarounds.
- Material upgrades for extended part life.
- Local repair of domestic and foreign control valves, check valves, pumps and other plant equipment along with replacement of internal trim.
- Engineering, machining and welding experience with over 30 different steel alloys.

WHAT WE OFFER YOU

- High quality, high tolerance machining, material traceability, overlays, aftermarket repair and retrofit of control valve and check valve internals and pump parts used in corrosive and erosive applications, including severe, high pressure service.
- Custom Engineering and AutoCAD drawings of your parts.

TYPICAL APPLICATIONS

- Valves and pumps used in especially severe corrosive and erosive services which require the use of tool steels, Tungsten carbide, Hastelloy alloys, Inconel alloys, Monel alloys, and chromium carbide, Colmonoy, Stellite and Wallex coatings.
- Check valves, control valves, and pumps used with slurries, high pressure, high temperature, and high flow corrosive and/or erosive fluids.
- Specialty fittings, packing glands, rod-out devices, retractable thermowells.

WHO WE ARE

A complete machine and welding facility. Servicing the chemical, petrochemical, power generation, mineral, and steel industries for over 50 years.

HOW TO CONTACT US

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PROTECTIVE COATINGS

Protective coatings are designed to reduce maintenance costs by extending the life of new parts or giving added life to used parts. Mechanical components are subjected to abrasion, erosion, corrosion, and thermal oxidation – any or all of which can result in the reduced life or even premature failure.

The alternative is applying a protective or functional coating in order to maintain critical material properties and dimensional stability.

There is a wide variety of metal, ceramic and carbide coatings from which to choose. Typical uses and applications of these coatings are: improved wear protection and corrosion resistance; thermal barrier to minimize component temperature levels and thermal gradients; abradable seals to protect critical rotating parts while maintaining necessary clearances, component repair and re-work, and dry-film lubrication.

We can apply coatings onto a variety of part sizes and geometries and finish machine to very tight tolerances.

HARD FACING

Normally, severe service parts have some type of coating to protect its wearing ability. If your part is damaged or worn, we are able to undercut the damaged or worn coating and repair it with the same type of hardened material. As an option, we can also upgrade the coating to a better material with better erosion or corrosion characteristics. The typical method of applying a coating is either TIG welding (GTAW) or a thermal spray fuse welding.

Some of the most common coatings are Stellite Numbers 1 and 6, Colmonoy Numbers 4, 6 and 72, Wallex Numbers 50 and 55, and Chromium Carbide. This gives you the option to repair your part to OEM specifications or to upgrade your part to better suit your process requirements, at a reasonable price and in a timely manner. For more information on these protective coatings, please refer to the **PROTECTIVE COATINGS SELECTION CHART** in this catalog.

TUNGSTEN CARBIDE

If a protective coating still does not perform in a satisfactory manner, many different parts may be fabricated from tungsten carbide. This option has solved some major problems in wear at various chemical plants in the Texas Gulf Coast area. Carbides are supplied in many grades to meet your individual needs.

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CORROSIVE/ EROSION SERVICE

Trim and Coatings:

Tungsten Carbide, Stellite Coatings, Chromium Carbide, Wallex Coatings, Colmonoy

Parts and Base Materials:

Hastelloy, Incoloy, Inconel, Monel, Stainless Steel, Tool/Hardened Steel, Ultimet

Typical Applications:

Equipment Repair:

Control Valves:

Process
Utility
Vent

Pumps:

Foreign
Domestic

Check Valves:

Plugs
Poppet
Ball

Shafts:

Actuator
Pump
Industrial Equipment

New Equipment:

Rod-Outs:

Process Pipes
Instrument Pipe
Equipment Tubes

Packing Glands:

Instrumentation
Retractable Thermowells

High Pressure Fittings:

Adapters
Flanges
Special Plant Equipment
Custom Spool Pieces

Plungers:

Peroxide Pump
Diaphragm Pump
Compressor
Catalyst Injection

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PROTECTIVE COATINGS SELECTION CHART

Brand Name	Trade Name	Hardness (Rc)	Maximum Operating Temperature (° F)	Surface Finish (RMS)	Description	Typical Applications
Colmonoy #4	Chromium Carbide	35-40	1500-1800	170-300	Nickel based hard-surfacing alloy, containing chromium carbides and chromium borides. Extremely wear resistant, good impact resistance.	Dies, valve stems and seats, plungers.
Colmonoy #6	Chromium Carbide	56-61	1500-1800	170-300	Nickel based hard surfacing alloy, containing chromium carbides and chromium borides. Extremely resistant to wear, especially under corrosive conditions.	Pump shafts and sleeves, valve stems and seats.
Colmonoy #72	Chromium Carbide	57-62	1500-1800	170-300	Tungsten content strengthens nickel matrix, offering excellent resistance to low stress abrasion and scouring. Wear resistance is often superior to Colmonoy #6.	Pump shafts and sleeves, valve stems and seats.
Stellite #1	Cobalt Alloy	47-49	1400-1500	280-420	Excellent resistance to abrasion and solid particle erosion.	Valves: seats, gates, balls, plugs Pumps: impeller and casing rings, balancing drums, shafts, seals, rotors, sleeves.
Stellite #6	Cobalt Alloy	34-42	1400-1500	280-420	Excellent resistance to many forms of mechanical and chemical degradation over a wide temperature range.	Valves: seats, gates, balls, plugs Pumps: impeller and casing rings, balancing drums, shafts, seals, rotors, sleeves.
Wallex 50	Tungsten Carbide	56-61	1400-1500	170-300	Provides excellent corrosion resistance and superior resistance to abrasion. It is most suitable for metal-to-metal wear protection where impact is not substantial.	Shaft sleeves, various pump components, bushings, high temperature fittings and components.
Wallex 55	Tungsten Carbide	58-63	1400-1500	170-300	Excellent resistance to metal-to-metal wear and abrasion. Impact resistance is good. Oxidation and corrosion resistance are excellent.	Shaft sleeves, various pump components, bushings, high temperature fittings and components.
Tungsten Carbide	Tungsten Carbide	79-96	1400-1500	63-250		Let-down valves, check valves, high pressure equipment, high erosion equipment.

CERTIFIED WELDING

TexCo Trim welding personnel are certified to ASME Code Section IX requirements on more than 30 different alloys including:

Carbon Steel	410 Stainless Steel
304 Stainless Steel	F5
309 Stainless Steel	F9
310 Stainless Steel	F11
316 Stainless Steel	F22
317 Stainless Steel	
321 Stainless Steel	Nickel 200
347 Stainless Steel	
Inconel 600	Monel 400
Inconel 601	
Inconel 625	RA 333
Incoloy 800H	Hastelloy C-276
Incoloy 825	Hastelloy B-2
Stellite 1	Stellite 6

HEAT TREATING AND STRESS RELIEVING

TexCo Trim is highly experienced in Post Weld Heat Treatment (PWHT) and stress relieving. PWHT may be performed in compliance with ASME Section IX requirements, in compliance with TexCo Trim specifications, or in compliance to your specifications. The most popular materials to receive PWHT or stress relieving are 410 SS, 440C, 17-4 and all grades of Inconel.

M. T. R. 'S

TexCo Trim maintains a complete record of the Material Test Reports (M.T.R.'s) on all parts fabricated by our facility. This record gives you access to the original mechanical testing data performed at the time of production of the raw material used for your parts.

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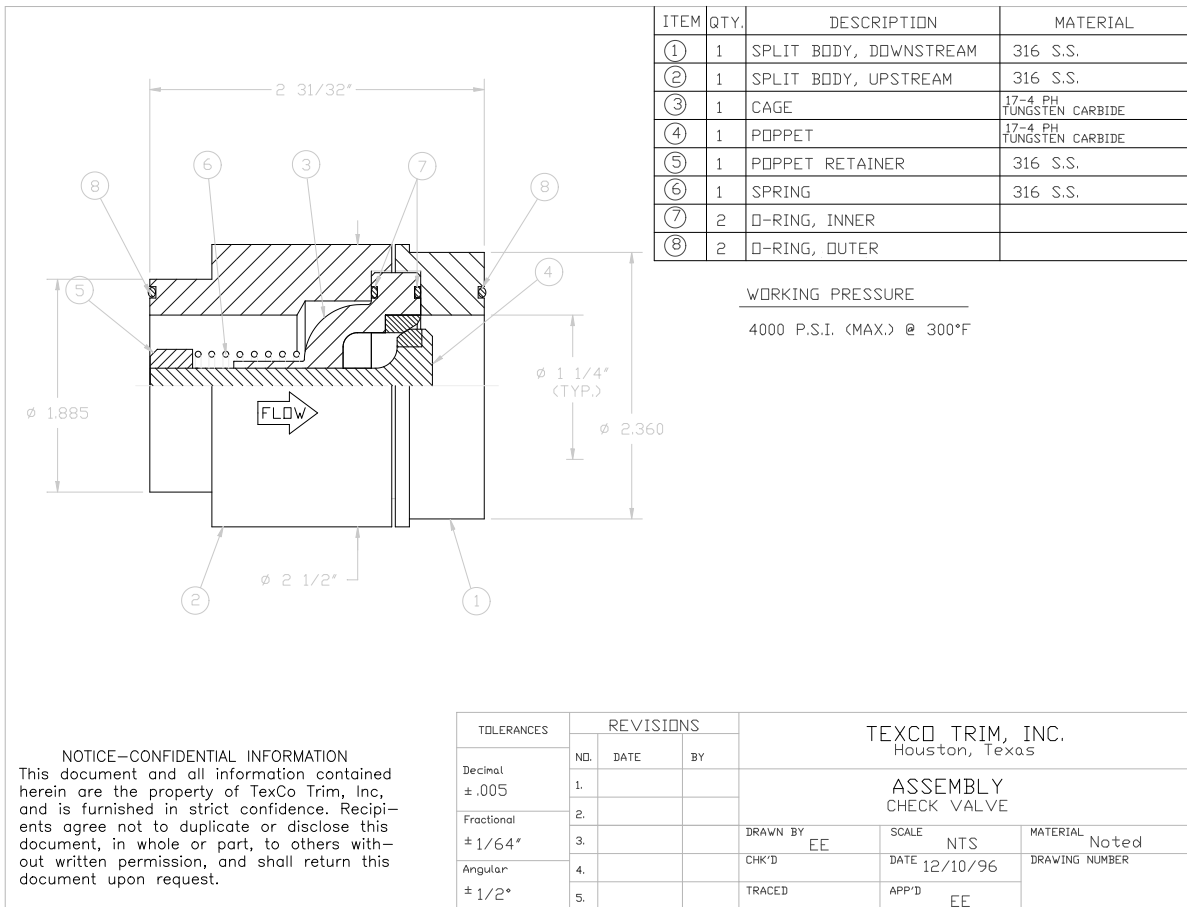
MATERIAL INVENTORY

TexCo Trim is proud of the diverse selection of typical and exotic alloys kept in our inventory. The following list is representative of the material in stock on a regular basis.

304 SS	Inconel 600
309 SS	Inconel 601
310 SS	Inconel 625
316 SS	Inconel 718
317 SS	Ultimet
321 SS	Hastelloy B-2
347 SS	Hastelloy C-276
410 SS	Monel 400
416 SS	
446 SS	Monel K-500
2205 Duplex SS	1018 Carbon Steel
Nitralloy 135	
Alloy 20	Brass 360 and 660
A182-F5	Incoloy 800
A182-F11	Incoloy 800H
A182-F22	Incoloy 800HT
RA333	15-5 SS
H13 Tool Steel	17-4 SS
Titanium Grade 2	Haynes HR-160
Stellite 6B	440C
4130/ 4140	4340
Tungsten Carbide	6061 T-6 Aluminum

CUSTOM ENGINEERING & AutoCAD

The engineering department at TexCo Trim is eager to assist you in the custom design of many different products.



The drawing shown above is a custom designed check valve for a pump.

Please contact our Engineering Department for assistance with any design problem you may encounter. We will help you analyze your problem, and offer solutions to help you solve your problem.

NONDESTRUCTIVE EXAMINATION CAPABILITIES

RT - Radiographic Testing

PT - Liquid Dye Penetrant Testing, Level II

MT - Magnetic Particle Testing

UT - Ultrasonic Testing

PMI - Positive Material Identification

Thermofisher Scientific Niton XL2 XRF Analyzer

Hardness Testing – Brinell, Knoop or Rockwell

Pressure Testing – 80,000-psig capability

DESTRUCTIVE EXAMINATION CAPABILITIES

Tensile Testing

Charpy V-Notch Testing

SHOP AND MACHINING CAPABILITIES

Dooson Puma 280 CNC Turning Center

15 Manual Engine Lathes: 15" to 42" Capacity

Milling Machines - 1 Bridgeport / 3 ACER / 2
Ganesh/ 1 Wells

2 Fosdick Radial Drill & 3 Drill Presses

Diamond Grinders: I.D. & O.D.

Turret Lathes: #3, #4 & #5 Warner Swasey

2 Gundrill Machines: 0.125" to 0.750" diameter (4)
Total Spindles

7 Miller GTAW Welding Rigs

1 Thermal Dynamics Plasma Arc Cutter

2 DoALL Band Saws: 14" diameter capacity

4 Positioning Tables: up to 48" chuck capacity

4 Sand and Glass Bead Blast Cabinets

Overhead Cranes: 3 Ton capacity

Nissan Forklift: 2-1/2 Ton capacity



McCartney Valve/ Actuator Assy.

Delivery/ By-Pass Control Valve used in the production of Low Density, High Pressure Polyethylene.



EXTRUSION/ VENT VALVE WITH DUAL BAFCO ACTUATORS

Rebuilt with new Trim sets and tested in house using our 3,500 psi Hydraulic Test Stand.



B.E.L. Valve with Fisher Actuator & Controls

New Valve Body Assembly and Trim set of our design, tested in house.



Propane Injection Pump

Rebuilt and tested in house.



Catalyst Injection Pump

Rebuilt and tested in house.



High Pressure Check Valves

Rebuilt and tested in house.