

Gen-Trim Product Warranty

Seller warrants title and that the goods provided by Seller will be free from defects in materials or workmanship under normal use and service until the expiration of the earlier of twelve (12) months from the date of initial operation or eighteen (18) months from the date of shipment by Seller. If, within thirty (30) days after Buyer's discovery of any warranty defects, Buyer notifies Seller thereof in writing, Seller shall, at its option, promptly repair or replace FOB point of manufacture, that portion of the goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Goods repaired and parts replaced during the warranty period shall be in warranty for the remainder of the original warranty period. Replacement spare parts are further warranted to meet or exceed the quality of the OEM part and to be completely interchangeable in form, fit and function to the part supplied by the OEM. Buyer's exclusive remedy shall be for damages, and Seller's total liability for any and all losses and damages arising out of any and all causes whatsoever shall in no event exceed the purchase price of the goods in respect of which such causes arise or, at Seller's option, the repair or replacement of such goods, and in no event shall Seller be liable for incidental, consequential or punitive damages resulting from any such cause. Seller makes no representation or warranty of any kind, express or implied, as to the merchantability, fitness for particular purpose, or any other matter with respect to any of the goods.

Gem-Trim products and services are subject to Gem-Trim's standard terms and conditions. For more information concerning the full line of Gem-Trim products and services, please contact your authorized Gem-Trim representative. Unless noted otherwise, trademarks and service marks noted herein are the property of Gem-Trim.



Gem-Trim®

148 Equity
Houma, LA 70360
Phone: 985.868.1586
Fax: 985.872.9993

P.O. Box 266307
Houston, Tx 77207
Phone: 713.845.1500
Fax: 713.845.1515

www.gem-trim.com



Gem-Trim®

Industrial Valve Products Catalog

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Replacement Parts for All Makes of Valves

Gem-Trim® is your most comprehensive source for replacement parts for control valves for every industrial and power plant application, as well as for valves for use in the oil and gas industry. Our Gem-Trim™ product line can meet your needs for replacement trim, replacement valve bodies, packing, gaskets, soft goods, diaphragms and valve repair for most major brands of control valves. The following is only a partial listing of the companies who manufacture control valves. Gem-Trim's product line even includes replacement parts for valves that the OEM no longer manufactures or has obsoleted. This means we can provide you with hard-to-find parts, at great savings.

[Annin Autoclave Engineering, Inc.](#) [Bailey Blakeborough](#) [BS&B/WKM \(Anchor Darling Valve Company\)](#) [Cashco, Inc.](#) [Conoflow](#) [Control Components Inc \(CCI\)](#) [Dezurik/Copes-Vulcan](#) [Crane](#) [Kieley Mueller \(Division of Leslie Controls, Inc.\)](#) [Fisher Controls](#) [The Foxboro Company](#) [Gulde](#) [Hammel-Dahl + Jamesbury Controls](#) [Hi-Matic](#) [Honeywell Process Control Division](#) [Introl](#) [Leslie Company](#) [The Lunkenheimer Company](#) [Masoneilan North American Operations \(Dresser Valve and Control Division\)](#) [Pignone](#) [Republic](#) [Research](#) [Siemens - Westinghouse](#) [Skinner/Uniflow](#) [Spence](#) [Sulzer](#) [Valtek, Inc.](#) [Yarway Corporation](#)

Gem-Trim offers a wide range of standard materials as well as special materials for even the most corrosive and abrasive environments. We will assist you in selecting the most appropriate material for your particular applications from the following:

- Stainless Steel (all types)
- Stellite (all types)
- Special Materials (Hastelloys, Inconel, Monel, Nickel, Tantalum, Titanium, Teflon, Zirconium alloys and many others)
- Tungsten Carbide

When it comes to your replacement parts needs, no challenge is too great for Gem-Trim's engineering, drafting and manufacturing capabilities. Our experienced specialists will gladly assist you in designing quality parts for any application or service.

To assure that correct size and type of part is obtained, please specify:

- Valve manufacturer and OEM part number (if known)
- Size and type of valve body
- Orifice size
- Grade of material desired
- Whether single or double ported
- Type innervalve (microform, microflute, throttle plug, equal percentage, quick-opening, etc.)
- Type guiding system (top and bottom, top, skirt or cage guided, etc.)
- If stem (if separate from innervalve) is needed
- What parts are needed, and quantity
- Delivery Date, Destination, & Method of Shipment
- If copy of material certificates is required
- Any special requirements

Gem-Trim is listed in the Approved Suppliers List of the Nuclear Procurement Issues Committee (Nupic) under nupic #4879.
Website: www.nupic.com



Materials

Design

Ordering

When it comes to Quality

Quality Assurance

CAD-CAM System

Gem-Trim's state-of-the-art approach to quality is reflected in the use of computer assisted design - computer assisted manufacturing systems. No other manufacturer of valve parts can boast a more sophisticated system for designing and manufacturing parts to your most exacting specifications.

Registered Quality System

The *Gem-Trim* Quality System begins with purchasing only mill certified materials. Superior parts, the result of years of continuous testing your assurance that your GEM-TRIM™ parts are manufactured from materials that best match your service conditions, no matter how demanding. Each part that you purchase from *Gem-Trim* has been subjected to rigorous QC inspection using calibrated instruments and gauges certified by the National Institute of Standards and Technology. Your GEM-TRIM parts are of the most exacting contours, tolerances, and finishes available.

Guaranteed Interchangeability

We guarantee that *Gem-Trim* parts meet or exceed the quality of the OEM parts and are interchangeable in form, fit, and function. Perhaps that explains why many valve manufacturers and representatives purchase *Gem-Trim* parts for their valves.

ASME Qualified Welding Procedures

Gem-Trim has one of the most sophisticated welding and coating procedures found in the industry, including ASME qualified welders and welding procedures. You are assured of quality, second to no other parts manufacturer.



No one is better than Gem-Trim

Price and Delivery

Gem-Trim is a full-time manufacturing facility, producing parts for many different makes and models of flow control equipment. You can enjoy the benefits of quality parts at competitive prices. And that's not all---twenty-four hour shipments to meet customer emergency and shutdown needs are routine for us --- without increased prices beyond special incurred costs. With large inventories of raw materials and machined parts to draw from, we can quickly deliver even those special OEM non-stock items. The result is lower inventory costs, and less downtime for you --- our customers.

Manufacturing Technology

We employ the latest state-of-the-art manufacturing technology with CNC machining equipment. The result? Each and every GEM-TRIM™ part you purchase from *Gem-Trim* has been manufactured to superior dimensional precision.

Unique Plant Survey

We initiated it. No other major parts manufacturer, including OEM's, offers it. We survey your valve parts and provide you with a quotation and unit prices for all items available in GEM-TRIM. With over 50,000 drawings representing over 100,000 parts, *Gem-Trim* can supply most of your needs. And your "store code number" and the OEM part number are etched into the material. It's uniquely ours.

Inspection and Testing

GEM-TRIM parts meet or exceed OEM quality. Independent labs consistently verify it in comparative tests. But you be the judge, as have hundreds of companies worldwide.

Rebuilt Trim

In addition to *Gem-Trim* manufacturing replica parts, we offer trim rebuilding services which will restore your worn trim to a "like new" condition. See page 14 for more information. Ask your *Gem-Trim* representative about this cost-efficient service.



Replacement Trim for Fisher® Valves

Trim for Fisher® A Body Valves

Gem-Trim manufactures replacement plugs, stems and seats (as shown), as well as guide bushings, gaskets, diaphragms and soft goods for *Fisher*® A Body valves. These valves are typically used in dump service and for general controlling applications.

SIZES: 1/2" through 16"



Trim for Fisher® BFC Body Valves

Pictured here is a *Gem-Trim* replacement plug, stem, seat and cage for *Fisher*® BFC Body valves, applicable for corrosive fluid service and for general controlling. In addition *Gem-Trim* offers sub assemblies, valve bodies, guide bushings, gaskets, diaphragms and soft goods as replacement parts for these valves.

SIZE: 3/4", 1", 1-1/2", 2", and 3"



Trim for Fisher® D Body Valves

Gem-Trim replacement plugs, stems, and seats (as shown) for *Fisher*® D Body valves are typically used for high pressure service for dumping and general controlling in oil production, power plants and gas distribution systems. Also available are guide bushings, gaskets, diaphragms and soft goods.

SIZES: 1" and 2"



Fisher is a registered trademark for Emerson Process Management.

For Ordering Suggestions, see page 2

Replacement Trim for Fisher® Valves

Trim for Fisher® Design E Body Valves

High Pressure, ANSI 1500/2500 shown here is a *Gem-Trim* replacement plug, stem, seat and cage for *Fisher*® Design E Body valves, typically used in high pressure service. In addition, *Gem-Trim* provides guide bushings, gaskets, diaphragms and soft goods for these valves.

SIZES: 3", 4", and 6"



Trim for Fisher® EB Body Valves

Gem-Trim manufactures replacement trim for *Fisher*® EB Body valves such as the plug, stem, and seat shown here, as well as guide bushings, gaskets, diaphragms, and soft goods. These valves are typically used in general controlling applications.

SIZES: 1", 1-1/2", 2", 3", 4", and 6"x 4"



Trim for Fisher® ED Body Valves

In addition to the *Gem-Trim* replacement plug, stem, seat and cage shown here for *Fisher*® ED Body valves, we also offer sub assemblies, valve bodies, diaphragms and soft goods. These valves are typically used for general purpose controlling.

SIZES: 1" through 8"



Fisher is a registered trademark for Emerson Process Management.

For Ordering Suggestions, see page 2

Replacement Trim for Fisher® Valves

Trim for Fisher® ET Body Valves

Gem-Trim manufactures replacement plugs, stems, cages and seats (as pictured), as well as sub assemblies, valve bodies, diaphragms and soft goods for *Fisher*® ET Body valves. These valves are typically used for positive shutoff such as flares, vent gases, etc.

SIZES: 1" through 8"



Trim for Fisher® EZ Body Valves

In addition to the *Gem-Trim* replacement plug, stem, cage and seat shown here, we also provide guide bushings, sub assemblies, valve bodies, diaphragms and soft goods for *Fisher*® EZ Body valves. These valves are typically used for general controlling of fluids which are difficult to control.

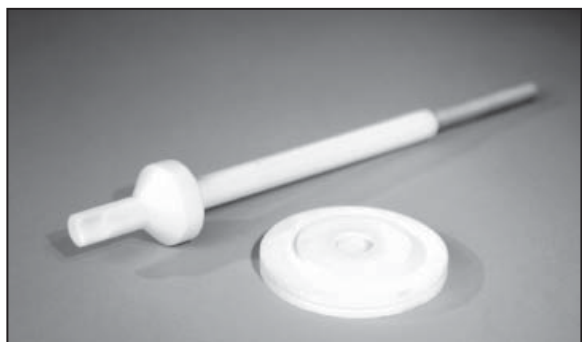
SIZES: 1/2" through 4"



Trim for Fisher® ZLA Body Valves

Gem-Trim manufactures replacement plug and stem assemblies and seat (as shown here), as well as guide bushings, valve bodies, sub assemblies, diaphragms and soft goods for *Fisher*® ZLA Body valves which are typically used in very corrosive atmospheres such as acids. Trim is Teflon on stainless steel.

SIZES: 1" and 2"



Cages for Fisher® E Body Valves

Shown here are *Gem-Trim* replacement cages for *Fisher*® E Body valves, available in a wide range of sizes, types and materials. (right to left): Cavitrol, Quick opening, Equal Percent, Design E, Equal Percent, Linear, and EZ.

SIZE: 1" through 8"



Fisher is a registered trademark for Emerson Process Management.

For Ordering Suggestions, see page 2

Replacement Trim for Masoneilan Valves

Trim for Masoneilan® Camflex® Valves

Pictured here are examples of *Gem-Trim* replacement plugs, shafts, seats, and seat retainers for *Masoneilan* Camflex® valves typically used for general controlling in a variety of applications. In addition to this trim, we offer guide bushings and spacers for *Camflex*® Valves.

SIZES: 1" through 12"



Trim of Annin Split Body Valves

Gem-Trim replacement plug and stem assemblies, seat rings and bellows seals for *Annin* Split Body valves are pictured here. *Gem-Trim* also supplies replacement valve bodies, actuators, positioners, yokes, and positioner and actuator parts, etc., for these valves which are typically used for general purpose controlling.

SIZES: 1/2" through 10"



Trim for Masoneilan® 10,000 Series Valves

Gem-Trim manufactures replacement trim for *Masoneilan* 10,000 Series valves typically used in general controlling of air, water, steam, gas, oil and a variety of applications in the chemical industry. In addition to the plugs, stems and seat rings, both single-ported and double-ported pictured here, we also supply guide bushings and diaphragms as replacement parts for these valves.

SIZES: 1" through 12"



Masoneilan is a registered trademark of Dresser, Inc.

For Ordering Suggestions, see page 2

Replacement Trim for Power Plants

Trim of Sulzer® Valves

Gem-Trim manufactures replacement trim - such as this plug and stem assembly - for Sulzer valves typically used for steam service in power plants. Also available from Gem-Trim are replacement jet cages, guide bushings, packing followers, packing housings and a wide range of other replacement parts of these valves.

SIZES: All standard sizes



Trim for Dezurik/Copes - Vulcan® Valves

Pictured here is Gem-Trim replacement plug and stem and seat assembly for Dezurik/Copes-Vulcan valves typically used in steam service for power plants. Also available from Gem-Trim are many other replacement parts for a wide range of Dezurik/Copes-Vulcan valves.

SIZES: 3/4" through 18"



Trim for Bailey® Valves

We offer a wide range of replacement trim for Bailey valves typically used for steam service in power plants. In addition to the plug and stem assembly, disc stem assembly and seat cages shown here, Gem-Trim manufactures parts for various types of Bailey valves.

SIZES: 2" through 12"



Trim for Nuclear Power Plants

In addition to manufacturing a wide range of precision trim for steam service in power plants, Gem-Trim is listed in the Approved Suppliers List of Nuclear Procurement Issues Committee (NUPIC) for commercial grade parts in nuclear power plants. The Gem-Trim NUPIC number is 4879. For more details, please contact your Gem-Trim representative or our inside sales department.

For Ordering Suggestions, see page 2

Dezurik/Copes - Vulcan is a unit of the SPX Corporation
Bailey and Sulzer are trademarks of CCI.

Replacement Trim for Other Major Valves Brands

Trim for Valtek,® Inc. Mark One Valves

We manufacture this replacement plug and stem assembly, seat and seat retainer for Valtek Mark One valves (typically used for general purpose controlling) as well as replacement guide bushings, packing followers and a wide range of other replacement parts for Valtek valves.

SIZES: 1" through 12"



Trim for Hammel-Dahl + Jamesbury Control Valves

Shown here are Gem-Trim replacement plug and stem assemblies, seats and seat cages for Hammel-Dahl valves typically used in general purpose controlling. We also offer replacement guide bushings, packing followers and a wide range of other replacement parts for a variety of Hammel-Dahl valves.

SIZES: 1" through 12"



Trim for Severn®, Yarway®, Leslie® and Rockwell Edward Valves

Pictured here are Gem-Trim replacement plugs, stems, seats and cages for Severn®, Yarway®, Leslie® and Rockwell Edward valves. Also available from Gem-Trim is a wide range of other replacement parts for a large number of types and sizes of each of these valves.

SIZES: Severn.....1" through 16"
Yarway.....1" through 12"
Leslie.....1" through 8"
Rockwell Edward.....1" through 12"



Severn is a trademark of Severn-Glocon.
Valtek is a trademark of FLOWSERVE.
Yarway is a trademark of Tyco Valve and Controls
Leslie Controls Inc. is a division of Circor International Inc.

For Ordering Suggestions, see page 2

Valve Products

Gem-Trim Control Valves for Every Application

Among the variety of valves available, you'd be hard pressed to find an application that we can't readily fill...cutting days and weeks off normal delivery schedules. All are available with bodies of carbon steel, stainless steel, and other standard metals, as well as a range of exotic materials for special applications.

Split Body Control Valves (1" - 4"): For highly corrosive or erosive applications, a universal control valve in sizes 1" to 4" with PTFE linings in two grades, plus a variety of special trim. For extreme pressures, the small-flow control valve provides long and reliable service. All can be fitted with your choice of *Gem-Trim* actuators, controls, and sensing equipment for any type of service.

9400, 9500, 9800 Series Bar Stock Control Valves (1/8" - 3"):

For precise control of corrosive and abrasive media, *Gem-Trim's* precision-machined bar stock control valves are readily available in a broad variety of materials. Standard bodies and trim for the 9400 and 9500 series include Monel, Titanium, Tantalum, Nickel, 304SS, 316SS, 304LSS, Hastelloy B&C, Alloy 20. The 9800 series features bodies of PVC or Kynar matched with plastic, standard metals, and special alloy trim. All three series employ highly responsive actuators and totally enclosed positioners for unsurpassed response, stability, and speed. A heavy duty stem guidance system minimizes turbulence, vibration, noise, and wear; even under high velocities and extreme pressure drops.

ZLA Type Control Valves (1" and 2"): *Gem-Trim* offers single-port, angle-style control valves in sizes 1" and 2". These valves are a split body design, machined from bar stock and lined with PTFE for handling highly corrosive fluids. Flanged end connections are available in ANSI Class 150 and 300. Special connections can be provided as needed.

Process Sampling Valves: *Gem-Trim* offers several styles of sampling valves for use in industrial processes to obtain samples of the process media. Special valves can be developed to meet specific needs. Contact Customer Service for more information.

Specialty Products: *Gem-Trim* offers design expertise to develop unique, one-of-a-kind products, for your specific applications. Our engineers work with your engineers to meet your needs.

Gem-E 5000 Series: Globe valves are typically used for general purpose controlling in a wide range of applications. These valves are available in sizes from 1" through 6" ANSI 150 - 600 in a variety of top-guided and cage-guided configurations. The 5000 Series valves are fitted with precision-machined *Gem-Trim* valve trim featuring a wide range of flow characteristics with gaskets, packing, actuators and accessories for virtually any requirement you may have. These valves are completely dimensionally interchangeable with Fisher® Design E Series valves. They are readily available from *Gem-Trim* and a network of *Gem-Trim* distributors - no lengthy delivery times, characteristic of most other manufacturers.



Valve Products and Other Replacement Parts

The **Reyco** line of direct spring acting pressure relief valves are interchangeable with Lonergan® valve products. Reyco valves utilize sound engineering principles and undergo thorough testing and continuous quality control in manufacturing. These measures ensure that Reyco valves deliver the precision, durability and value our customers expect and demand.

Superior control valves offer high performance in liquid and gaseous services while permitting easy, fast and inexpensive maintenance. Superior control valves are available in globe, ball and butterfly styles.

Replacement Trim of Oil Field Valves

Gem-Trim applies its high-tech expertise in the manufacturing of replacement trim for industrial valves to manufacturing replacement trim for oilfield valves. Whether it's dump valve trim, adjustable and automatic choke trim, positive chokes, master beans or flow beans, we manufacture it for all major makes. For more information on oilfield valve trim, ask for *Gem-Trim's* oilfield trim brochure or contact our inside sales department.

Gem-Trim Gaskets and Packing

Shown here with *Gem-Trim* Gem-E Series valves are a wide range of packing and gaskets for these valves. In addition, *Gem-Trim* offers gaskets, packing and a variety of softgoods for a wide range of valves. (E Bodies, V100, V150, Valtek® Mark I, etc.)

Gem-Trim Diaphragms

Pictured here are some of the *Gem-Trim* replacement diaphragms for a wide range of Masoneilan® and Fisher® control valves. *Gem-Trim's* replacement diaphragms are made of 65 duro neoprene.

SIZES:

Masoneilan®9,11,13,15,18 and Sigma FA, B, and C
Fisher®30, 34/40, 45/50, and 60
Camflex®4-1/2, 6, and 7

For Ordering Suggestions, see page 2



Valve Repair Services

Gem-Trim's expert valve repair puts your valves in like-new condition . . .

Gem-Trim's highly trained and experienced valve and instrument technicians can recondition your control valves including complete overhaul and calibration of valves, positioners and associated equipment as well as recondition of valve bodies.

Whether you have one valve or a truckload, we have the capacity to handle your control valve repair needs. And no other company in the industry can offer you a better turnaround of service and delivery than does *Gem-Trim*. We're only a phone call away from your most urgent requirements.

Choke Body Repair Service

Gem-Trim's welding, machining and heat treating specialists can recondition your choke bodies to original specification, providing quick turnaround to minimize costly downtime.

Specialty Welding

MIG and TIG techniques are used for repairing worn trim, valve bodies, and applications for special materials such as Stellite or Inconel. For other materials ask a representative for details. Welders and procedures are all ASME qualified.



Before



After



Trim Rebuilding Services

Trim Rebuilding Service

Gem-Trim offers a "Trim Rebuilding" Service where used, worn control valve trim can be sent into the factory for evaluation and possible repair to a condition to allow it to meet fit, form and function. A technical evaluation is performed to determine if the trim is repairable. If it is not, then an option to 'Make New' is offered. If repaired, some cosmetic scars may exist and these are typically reviewed with customer prior to shipment.

Parts Received and Awaiting Disposition.



Typical Rebuilds

20" EHD Cage, Plug, & Stem

- Worn, scratched deformed
- Rewelded, stellite, remachined "like new"



After



Plugs & Stems

- Scratched, worn
- Remade "like new"



Seat Rings

- Scratched, worn
- Remade "like new"

