



DRESSER-RAND

Bringing energy and the environment into harmony.*

GIMPEL® VALVES

Gimpel® Valves

Gimpel valves are designed and manufactured in accordance with rigorous industry standards.

We have more than 50 years of experience designing, manufacturing and servicing trip, trip throttle and non-return valves for steam turbine generators and API 611 and 612 steam turbine drives. As protection and safety devices, Gimpel valves are designed and manufactured in accordance with rigorous industry standards including the following:

- API 611 and 612
- ASME/ANSI B16.34 and B16.5
- NEMA SM 23/24
- ASME boiler and pressure vessel code



Gimpel products are engineered to order.

Dresser-Rand manufactures Gimpel valves at an ISO 9001:2008 certified facility and has an EC Certificate of Conformity.

POWER AND PROCESS STEAM TURBINE APPLICATIONS

Because Dresser-Rand Gimpel steam turbine protection valves can handle a wide range of applications, they are in operation in petrochemical facilities, power plants and many other applications around the world. Gimpel hydraulic-operated valves use turbine-control oil systems (100 to 2500 psig / 7 to 172 bar), are sized to 24 in. (600 mm), have pressure class ratings to 2500 psig, and use advanced technology to achieve temperatures to 1004°F (540°C). Mechanical, latch-type valve trip cylinders operate with lubrication oil supply pressures as low as 10 psig (0.7 barg). Optional servo-valve and LVDT designs are available for precise flow control.

AVAILABLE OPTIONS

- HP or LP actuators
- Limit switches
- Electric actuator vs. handwheel
- Junction box
- Servo and LVDT
- Latch-type valve exerciser
- Solenoid exerciser
- Straight, corner or top inlet bodies
- Offset and dual outlet bodies
- Blowdown kits

RELIABLE, INNOVATIVE VALVE DESIGNS FOR COMMERCIAL AND U.S. NAVY STEAM TURBINES

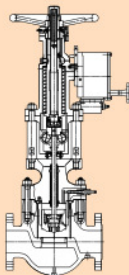
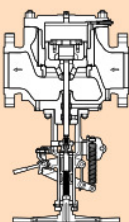
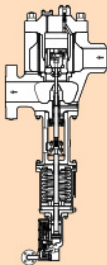
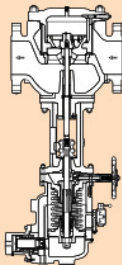
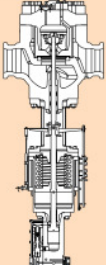
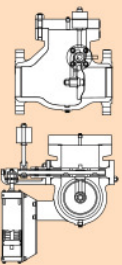
Gimpel valves are used for commercial marine and U.S. Navy steam turbine applications, including main propulsion, turbine-generator, and main feed pump services. With respect to U.S. Navy nuclear powered vessels, beginning with the first nuclear powered submarine Nautilus, Gimpel valves have been in operation and protected steam turbines on every U.S. Navy nuclear powered submarine and aircraft carrier including the CVN 76 Ronald Reagan and the new CVN 77.

DEDICATED SUPPORT FOR TRIP THROTTLE VALVES

The trip throttle valve is the "heart" of the turbomachinery protection system, so proper maintenance and operation are essential for reliability. Dresser-Rand provides dedicated after-market sales and service with approximately 40 service centers located strategically throughout the world; parts are engineered and manufactured in accordance with current design plan specifications, which includes any design improvements. This includes valve upgrades and replacements for older model Gimpel and non-Gimpel manufactured valves currently in service; trained service engineers and technicians; and training courses for an end-users' operations and maintenance personnel.

Features	Benefits
Piloted design	Reduces actuator size; offers local or remote start-up throttling
Stellite material	Prolongs life of seating surfaces
Stems and bushings nitrided and precision ground and honed	Protects against galling; allows smooth, low friction operation and decreases stem leakage (low- and high-pressure leak-off connections provided)
Hydraulic valve actuators with special relays	Fast, consistent tripping
Hydraulic operated valves with on-line exercise (partial stroking) capability	Demonstrates freedom of movement of tripping components without affecting steam flow
Hydraulic operated valves with back-seated design	No continuous stem leakage at valve-wide-open position
Integral, removable strainer basket	Provides additional protection while minimizing steam pressure loss
Above and below seat drains	Remove condensate during warm-up
Body cover	Allows access to internals with valve in line
Hydraulic and pneumatic trip cylinders for latch-type valves	Provides choice of trip cylinder working medium

Gimpel® Valve Matrix

	Mechanical Latch		Oil (hydraulic) Operated			Swing Disc Non-Return
	TMTTV Top-mechanism Trip Throttle Valve	INTTV Inverted Trip Throttle Valve	OOTV Oil-operated Trip Valve	OOTTV Oil-operated Trip Throttle Valve	OOPTV Oil-operated Positionable Trip Valve	SDNRV Extraction/Induction Power-assisted Valve
						
Operation	Push-to-close	Pull-to-close	Pull-to-close	Pull-to-close	Pull-to-close	Free-swinging
Size NPS - inches DN - (mm)	2-14 (50-350)	3-20 (80-500)	3-24 (80-600)	3-24 (80-600)	6-24 (150-600)	4-36 (100-900)
Pressure ANSI Class	150-1500	150-1500	150-2500	150-2500	150-2500	150-900
Temperature °F (limit) °C (limit)	950 510	950 510	1004 540	1004 540	1004 540	950 510

For more information on **Gimpel valves** please contact the following:

Dresser-Rand
1210 W. Sam Houston Pkwy North
Houston, TX 77043
Tel: (Int'l +1) 713-467-2221
Fax: (Int'l +1) 713-346-2100

Dresser-Rand GmbH
Oberhausen Operations
Brinkstrasse 21
46149 Oberhausen
Germany
Tel: (Int'l +49) 208-65-6020
Fax: (Int'l +49) 208-65-3900

For a complete list of products and services, visit www.dresser-rand.com or contact the following:

CORPORATE HEADQUARTERS

Dresser-Rand
West8 Tower Suite 1000
10205 Westheimer Rd
Houston, TX 77042 USA
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-6110

Dresser-Rand
112, Avenue Kleber
Cedex 16
Paris 75784 France
Tel: (Int'l +33) 156 26 71 71
Fax: (Int'l +33) 156 26 71 72

Email: info@dresser-rand.com

REGIONAL HEADQUARTERS

The Americas

West8 Tower, Suite 1000
10205 Westheimer Road
Houston, Texas 77042
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-6110

EMEA

(Europe, Middle East & Africa)
Dresser-Rand S.A.
31 Boulevard Winston Churchill
Cedex 7013
Le Havre 76080, France
Tel: (Int'l +33) 2-35-25-5225
Fax: (Int'l +33) 2-35-25-5366/5367

Asia-Pacific

Dresser-Rand Asia Pacific Sdn Bhd
Unit 9-4, 9th Floor
Bangunan Malaysian Re
17 Lorong Dungun
Damansara Heights
50490 Kuala Lumpur, Malaysia
Tel: (Int'l +60) 3-2093-6633
Fax: (Int'l +60) 3-2093-2622

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