Dresser-Rand® Gimpel™ Valve

Replacement Valve Operative Sections - “Top-Works”

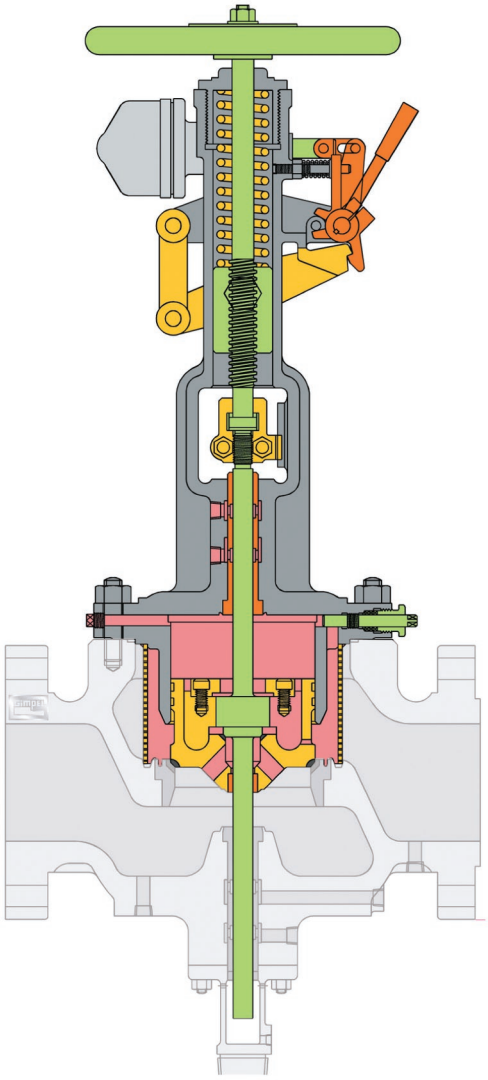
Many three-, four- and six-inch inlet size, single-governor-valve steam turbines are designed with a steam chest containing separate trip and governor valves. Dresser-Rand may be able to adapt a Gimpel mechanical latch-type trip throttle valve, “Top Works,” (*i.e.* operating section) to the existing valve body for improved reliability and operation.

The replacement operating section can be actuated using lubrication oil, process air, or a solenoid trip arrangement. If hydraulic or pneumatic actuation is used, the supply system must be retrofitted with a solenoid “dump valve” that responds to the electric signals produced by the overspeed protection system.

The “Top Works” system retains the existing valve body, thereby eliminating modifications to the supply steam piping.

Benefits:

- Improved reliability and operation
- Retention of existing valve body
- Availability of hydraulic, pneumatic, and solenoid actuation



1210 West Sam Houston Pkwy. N. • Houston, TX 77043 USA
Tel: 713-467-2221 • Fax: 713-346-2100 • email: info@dresser-rand.com

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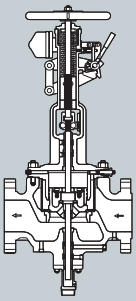
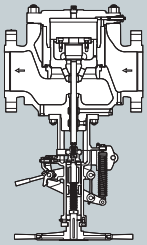
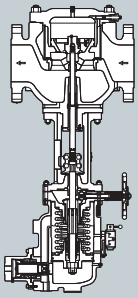
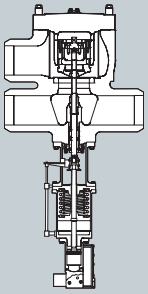
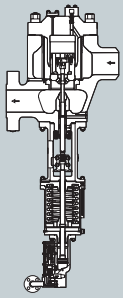
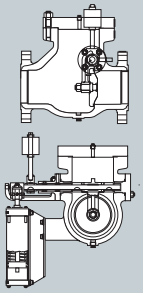
Gimpel™ Valve Matrix

	Mechanical Latch		Oil (hydraulic) Operated			Swing Disc Non-Return
	TMTTV Top-Mechanism Trip Throttle Valve	**INTTV** Inverted-Trip Throttle Valve	**OOTTV** Oil-Operated Trip Throttle Valve	**OOPSV** Oil-Operated Position Stop Valve	**OOTV** Oil-Operated 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)	6-24 (150-600)	3-24 (80-600)	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