SEALEXCEL®

Cost Effective and Reliable Source For Instrumentation Toggle Valves

SERIES - TGV01

www.sealexcel.com

Advanced Technology in design, development and production of world class quality Fittings and Valves for Instrumentation, Process Tubing etc. ensure A TOTAL CUSTOMER SATISFACTIONS

INTRODUCTION

Unit-II, Gujarat (Plant-1)

Unit-II, Gujarat (Plant-2)

SEALEXCEL (INDIA) PVT. LTD. A fast growing manufacturing company having over 35 years of experience and expertise with advanced technology in Design, Development and Manufacturing World Class consistent and reliable quality Tube Fitting and Valves used in Fluid/Gas Control System in Industries like Automobile, Chemicals, Petrochemicals, Oil & Gas, Marine, Food, Biotechnology, PharmaceutIcal, Packaging and Printing Industries etc.

We have two well-equipped modern manufacturing plant including in-house product performance testing facilities to check and verify the maximum safety and consistent reliable performance under adverse, harsh, stressful environments like vibrations, high pressure, deep vacuum and thermal shock etc.

RESEARCH & DEVELOPMENT

By continuous Research & Development with advanced technology and high tech cutting edge machineries. SEALEXCEL produce best quality products for its customers.

QUALITY

SEALEXCEL's total quality system and control from incoming raw material inspection through ongoing quality assurance during production, final inspection, assembly, testing, packing and dispatch ensure high standard quality products which has earned us various quality certifications such as

- ISO 9001:2015
- PED 2014/68/EU
- ATEX
- OHSAS 18001 (Safety)
- ISO 14001 (Environment)

SEALEXCEL products are validated by type testing in accordance with

- ASTM F 1387-99(2012)
- ECE R110, ISO 15500
- BS4368:4:1984
- MSS SP-99-2016a
- Helium Leak Test
- ARAI Test Report

CUSTOMER SATISFACTION

We strive for Total Customer Satisfaction and continuously work to set of goals to provide the best quality and delivery of products and services in the best interest of our customers.

TOGGLE VALVES : SERIES - TGV01

FEATURES / BENEFITS

- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Rugged and compact design
- Quick opening and closing
- Straight and angle flow Patterns
- Panel mountable
- Flow coefficient (Cv) from 0.11 to 0.70
- Orifice sizes : 0.080" (2mm), 0.125" (3.2mm), 0.250" (6.4mm)
- Variety of end configuration includes SEALEXCEL[å] Well-Lokä Tube Fittings, Male / Female NPT, BSPT and BSPP pipe connection.
- Every valve is factory tested

APPLICATIONS

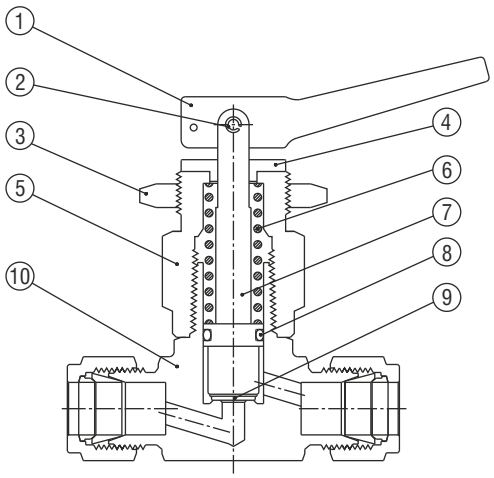
- General Plant Service
- Hydraulic and Pneumatic
- Pressure measurement devices
- Venting

OPERATING PARAMETERS

Pressure Rating : upto 3000 psig (206 bar) at CWP
Temperature Rating : -28^{0}C to 93^{0}C

MATERIAL OF CONSTRUCTIONS

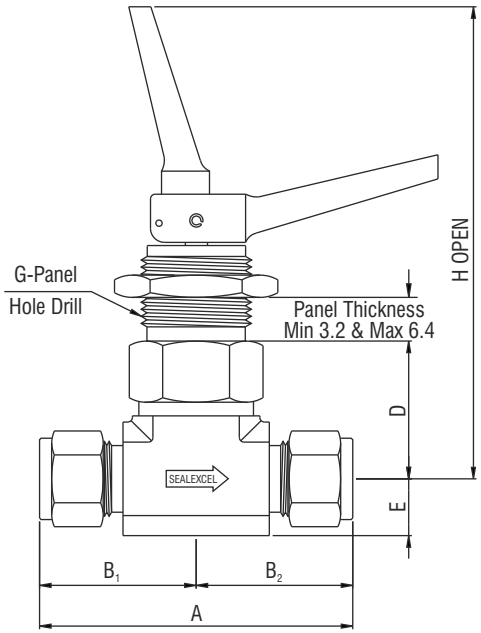
No.	Component	Material
1	Handle	Nylon
2	Roll Pin	SS304
3	Panel Nut	SS316
4	Handle Washer	Nylon
5	Packing Nut	SS316
6	Spring	Stainless Steel
7	Stem	SS316
8	O-Ring	Viton
9	Stem Tip	PTFE
10	Body	SS316



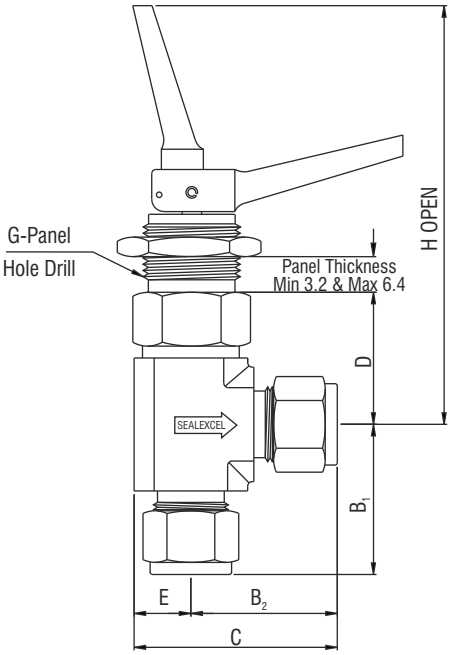
STANDARD TESTING :

Each valve is factory tested at 200 psig (13 bar) with nitrogen for leakage at the seat and seal

STRAIGHT PATTERN



ANGLE PATTERN



STANDARD CONFIGURATION DIMENSIONS

End Connections		Orifice	Cv	Dimensions (mm)								Ordering Number
Inlet	Outlet			A	B_1	B_2	C	D	E	G	H	
1/8" Well-Lok	1/8" Well-Lok	2.0	0.11	49.8	24.9	24.9	32.8	23.8	7.9	13.5	72.9	TGV01-TT2
1/4" Well-Lok	1/4" Well-Lok	3.2	0.20	57.4	28.7	28.7	38.2	21.8	9.5	13.5	71.4	TGV01-TT4
3/8" Well-Lok	3/8" Well-Lok	6.4	0.70	65.6	32.8	32.8	45.5	26.9	12.7	16.8	90.4	TGV01-TT6
1/2" Well-Lok	1/2" Well-Lok	6.4	0.70	71.6	35.8	35.8	48.3	26.9	12.7	16.8	90.4	TGV01-TT8
3mm Well-Lok	3mm Well-Lok	2.0	0.11	49.8	24.9	24.9	32.8	23.8	7.9	13.5	72.9	TGV01-TT3M
6mm Well-Lok	6mm Well-Lok	3.2	0.20	57.4	28.7	28.7	38.1	21.8	9.5	13.5	71.4	TGV01-TT6M
8mm Well-Lok	8mm Well-Lok	3.2	0.20	56.4	28.2	28.2	37.6	21.8	9.5	13.5	71.4	TGV01-TT8M
10mm Well-Lok	10mm Well-Lok	6.4	0.70	69.2	34.6	34.6	47.2	26.9	12.7	16.8	90.4	TGV01-TT10M
12mm Well-Lok	12mm Well-Lok	6.4	0.70	74.2	37.1	37.1	49.8	26.9	12.7	16.8	90.4	TGV01-TT12M
1/8" Female NPT	1/8" Female NPT	3.2	0.20	41.4	20.7	20.7	30.2	21.8	9.5	13.5	71.4	TGV01-FF2N
1/4" Female NPT	1/4" Female NPT	6.4	0.70	53.8	26.9	26.9	39.6	26.9	12.7	16.8	90.4	TGV01-FF4N
1/8" Male NPT	1/8" Male NPT	2.0	0.11	38.1	19.0	19.0	27.0	23.8	7.9	13.5	72.9	TGV01-MM2N
1/4" Male NPT	1/4" Male NPT	3.2	0.20	50.8	25.4	25.4	35.0	21.8	9.5	13.5	71.4	TGV01-MM4N
3/8" Male NPT	3/8" Male NPT	6.4	0.70	57.2	28.4	28.4	41.4	26.9	12.7	16.8	90.4	TGV01-MM6N
1/8" Male NPT	1/8" Well-Lok	2.0	0.11	43.9	19.0	24.9	32.8	23.8	7.9	13.5	72.9	TGV01-MT2N
1/4" Male NPT	1/4" Well-Lok	3.2	0.20	53.6	24.9	28.7	38.2	21.8	9.5	13.5	71.4	TGV01-MT4N
1/8" Male NPT	1/8" Female NPT	3.2	0.20	41.4	20.7	20.7	30.2	21.8	9.5	13.5	71.4	TGV01-MF2N

Dimensions shown with SEALEXCEL® Well-Lok® Nut are finger tight

Dimensions are for reference only and subject to change

ORDERING INFORMATION

VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
TOGGLE VALVES	TGV01-TT 4-E T V 1 2 3 5 6 7	TGV01-MM 4 N-E T V 1 2 3 4 5 6 7

VALVE SERIES CODE DESCRIPTION

TOGGLE VALVES SERIES	: STRAIGHT PATTERNS	- TGV01
	: ANGLE PATTERNS	- TGVA101

2. END CONNECTION TYPE CODE DESCRIPTION

TT - SEALEXCEL[å] Well-Lokä Tube Fittings
MM - Male pipe thread
FF - Female pipe thread
MT - Male pipe thread to SEALEXCEL[å] Well- Lokä Tube Fittings
MF - Male pipe thread to Female pipe thread
TSW - Tube Socket Weld Pipe

3. END CONNECTION SIZE CODE DESCRIPTION

TUBE OD SIZE

FRACTIONAL		METRIC	
SIZE	CODE	SIZE	CODE
1/4"ODT	4	6mm ODT	6M
3/8"ODT	6	8mm ODT	8M
1/2" ODT	8	10mm ODT	10M
3/4"ODT	12	12m ODT	12M
1" ODT	16	16mm ODT	16M

PIPE THREAD SIZE

SIZE	CODE	SIZE	CODE
1/8"	2	1/2"	8
1/4"	4	3/4"	12
3/8"	6	1"	16

4. PIPE THREAD TYPE CODE DESCRIPTION

N - Male / Female NPT
RT - Male / Female BSPT
RG - Female BSP
SE - SAE Straight Thread

5. MATERIAL OF CONSTRUCTIONS

E - SS316
EL - SS316 to NACE MR01-75
C - Carbon Steel

6. SEAT MATERIAL

T - PTFE

7. SEAL MATERIAL

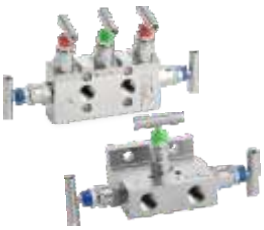
B - Buna-N
P - EPDM
V - Viton[å]

Viton[å] is the registered trademark of Dupont

SEALEXCEL's commitment to upgrading it's product range by way of continuous research and development programme with advance technology and cutting edge solutions to ensure best quality products at competitive price and also best delivery schedule for it's customer with objective of

A TOTAL CUSTOMER SATISFACTIONS

PRODUCT RANGE

Twin/Single Ferrule Tube Fittings	37° Flare Tube Fittings To SAE J514	Instrument Threaded & Welded Pipe Fittings	Tube Fittings With Integral Flange	Low /Medium PressureBall Valves
High Pressure Ball Valve	High Pressure 2/3 Way Ball Valve	Needle Valve	Needle Valves (Panel Mountable)	High Pressure Needle Valve
Rising Stem Plug Valves	Gauge/Root Valves	 Instrument 2/3/5 Manifold Valves	Monoflange Valves	Single / Double Block & Bleed Valves
Purge Valves	Bleed Valves	Toggle Valves	Relief Valves	Check Valves
Micron In-line Filters	Quick Connect Couplings	Stainless Steel Pneumatics Fittings & Valves		

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