

# Instrument Gate Valves

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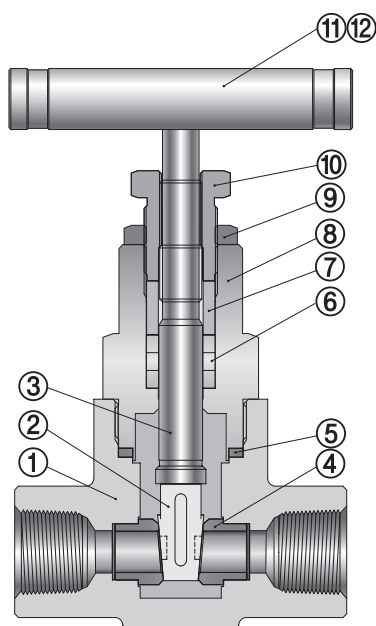
Catalogue No. S-LOK Mar.2024

# SGTV Series Gate Valves

## Features

- Pressure rating up to 3600psig (248bar) at 21°C (70°F).
- Temperature rating from -54°C (-65°F) to 648°C (1200°F) with Graphite packing.
- Valve stem back seating against the bevelled edge of bonnet in fully open position prevents maximum leakage through bonnet when packing fails.
- Packing Bolt allows external packing adjustment.
- Packing under the stem threads is to isolate threads from system fluid and lubricant washout.
- Variety of end connections include reliable S-LOK tube fittings, male/female NPT & ISO threads.
- The hard faced seat ring and wedge enable longer life cycle & Low operating torques.
- Available Sour Gas service per NACE MR0175.

## Materials of Construction



NO.	Description	Material Grade	
		Stainless Steel	Carbon Steel
1	Body	A182 F316	A105
2	Wedge	SS316 + STELLITE	
3	Stem	SS316 / A479 or A276	
4	Seat Ring	SS316 + STELLITE	
5	Bonnet Seal	GRAPHITE	
6	Packing	GRAPHITE	
7	Packing Gland	SS316 / A479 or A276	
8	Bonnet	SS316 / A479 or A276	A105
9	Lock Nut	SS316 / A479 or A276	
10	Packing Bolt	SS316 / A479 or A276	
11	Bar Handle	Stainless Steel	
12	Set Screw	Stainless Steel	

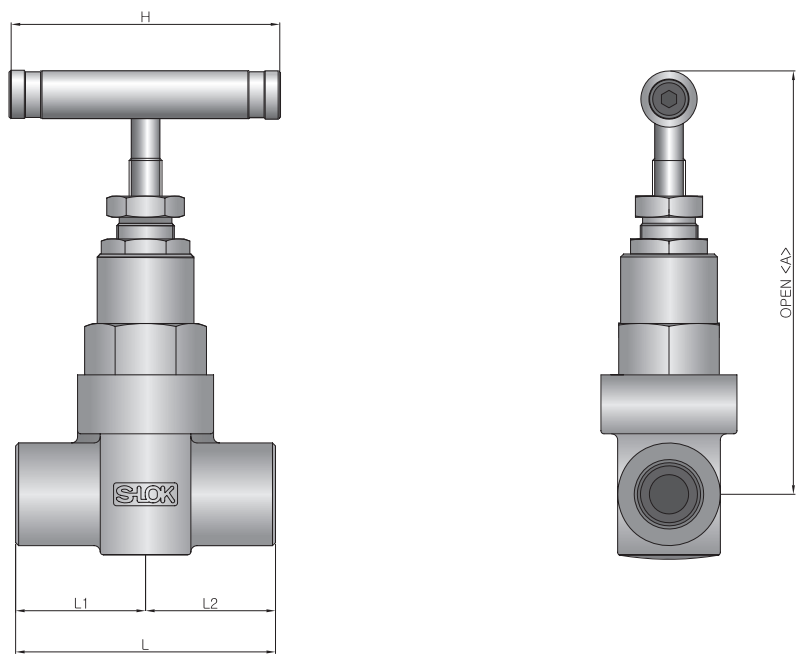
## Technical Data

### Temperature-Working Pressure

ASME Material Group	Table 2-2.2	Table 2-1.1
ASME Class Rating	1500	
Material Name	Stainless Steel 316	Carbon Steel A105
Temperature, °C (°F)	Working Pressure, psig (bar)	
-54°C (-65°F) to 38°C (100°F)	3600 (248)	3705 (255)
93°C (200°F)	3095 (213)	3395 (234)
148°C (300°F)	2795 (192)	3270 (225)
204°C (400°F)	2570 (177)	3170 (218)
260°C (500°F)	2390 (164)	3015 (207)
315°C (600°F)	2255 (155)	2840 (195)

- Pressure ratings of valves with S-LOK end connections are determined by the tubing material and wall thickness.
- For more information about pressure ratings of valves with tube fitting end connections.
- Pressure rating of valve is sometimes limited to the working pressure of pipe ends and the tubing connected.

Ordering Information & Dimensions



Ordering Number		Orifice (mm)	Cv	End Connections		Dimensions (mm)				
				Inlet	Outlet	L	L <sub>1</sub>	L <sub>2</sub>	A	H
SGTV1	F-6N	10	6.1	3/8" Female NPT		86	43		140	88.9
	F-8N			1/2" Female NPT		86	43			
	S-8T			1/2" S-LOK		100	50			
	S-10T			3/4" S-LOK		100	50			
	SF-8T8N			1/2" S-LOK	1/2" Female NPT	93	50	43		
	SW-6P			3/8" Pipe Socket Weld		86	43			
	SW-8P			1/2" Pipe Socket Weld		86	43			
SGTV2	F-8N	12.7	11.3	1/2" Female NPT		100	50		170	114.3
	F-12N			3/4" Female NPT		100	50			
	S-12T			3/4" S-LOK		114	57			
	S-16T			1" S-LOK		124	62			
	SF-12T12N			3/4" S-LOK	3/4" Female NPT	107	57	50		
	SW-8P			1/2" Pipe Socket Weld		100	50			
	SW-12P			3/4" Pipe Socket Weld		100	50			

\* Dimensions are for reference only and are subject to change.



- Nil : Standard

• TE : PTFE Packing

• SG : Sour Gas Service
- S6 : 316 Stainless Steel

• CS : A105

S-LOK<sup>®</sup>