

# Retrievable Injection-Pressure-Operated Gas Lift Valves



*The TBK is available in port sizes ranging from 1/8" to 5/16" in 1/16" increments. TBK-1 is available in port sizes from 1/8" to 3/8" in 1/16" increments. The 1-1/2" TR-20 has port size options from 3/16" to 1/2" in 1/16" increments.*



TBK

TBK-1

TR-20

Tejas offers injection pressure operated valves in both one inch and one and one half inch industry standard sizes. These valves are suitable for use in continuous and intermittent gas lift applications. The valves feature a Nitrogen charged three ply Monel bellows and are available in stainless steel and Monel. The Nitrogen charge provides the closing force for operation of these valves. All valves are equipped with integral reverse flow check valves.



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Valve	Ab Effective bellows area (sq. in.)	Port Size In.	Ap Area of seat (sq. in.)	Ap/Ab (R)	1-(Ap/Ab) (1-R)	Ppef R/(1-R)
TBK	0.31	1/8	0.013	0.043	0.957	0.045
		5/32	0.020	0.066	0.934	0.071
		3/16	0.029	0.094	0.906	0.104
		1/4	0.051	0.165	0.835	0.197
		5/16	0.079	0.255	0.745	0.343
TBK-1	0.31	1/8	0.013	0.043	0.957	0.045
		5/32	0.020	0.066	0.934	0.071
		3/16	0.029	0.094	0.906	0.104
		1/4	0.051	0.165	0.835	0.197
		5/16	0.079	0.255	0.745	0.343
TR-20	0.77	1/8	0.013	0.017	0.983	0.018
		5/32	0.020	0.027	0.973	0.027
		3/16	0.029	0.038	0.962	0.039
		1/4	0.051	0.066	0.934	0.071
		5/16	0.079	0.103	0.897	0.115
		3/8	0.113	0.147	0.853	0.173
		7/16	0.154	0.200	0.800	0.250
		1/2	0.200	0.260	0.740	0.352