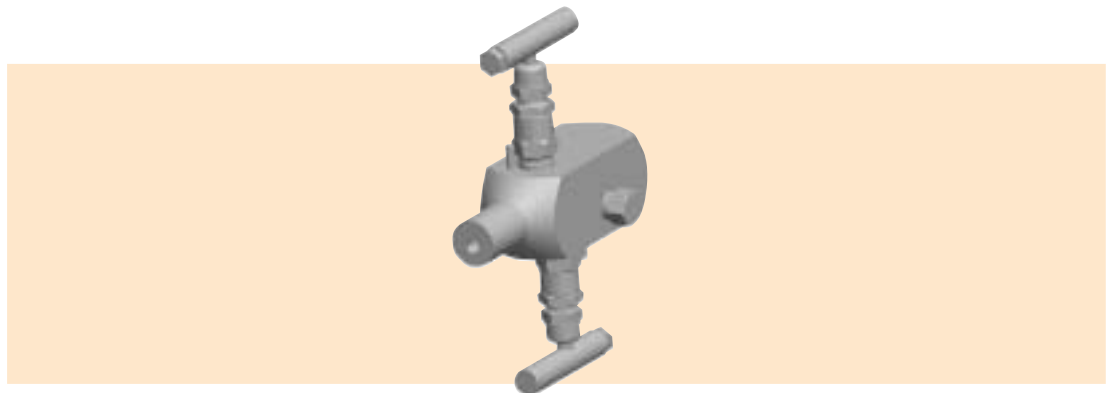


Kerotest KM25 & KM251 Block & Bleed Gauge Valves



Product Brief

The KM25 and KM251 are 2-valve, single outlet valves used primarily for gauge isolation. They can also be used for calibrating and venting operations, all in a very compact unit. They are highly reliable valves that permit the safe installation and servicing of gauges, switches, etc., without concern for external leakage.

Features/Benefits

- **Field-serviceable soft seat.** Allows replacement with valve still in the line.
- **Compact, panel mount design.** Saves space and installation costs.
- **Isolated stem threads.** Adjustable packing below stem threads keeps solids away. Prevents process contamination.
- **Bubble-tight shutoff.**
- **Chrome-plated stem** prevents freezing and galling.
- **Perfect closure** every time with free-swiveling ball end stem.
- **Vent ports** are threaded for safe, easy piping connections.
- **Rolled stem and bonnet threads** for increased strength and life. Highly polished stem.
- **No more stem blowouts.** No-backout stem design prevents blowout problems and removal while in use.
- **Less parts** mean less leak points and less fugitive emissions.

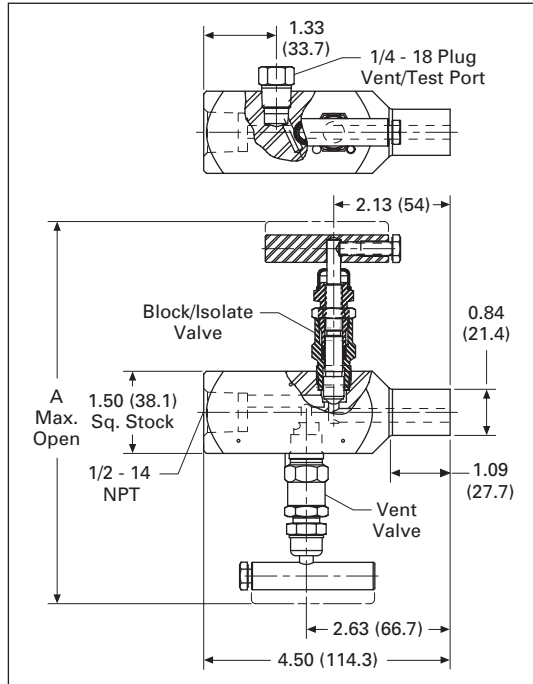


An Employee Owned Total Quality Management Company

Kerotest KM25 & KM251 Block & Bleed Gauge Valves

Specifications

KM25 and KM251 Dimensions in Inches (mm)



Dimensions in Inches (mm)

Packing	A
Teflon®	7.87 (200.0)
GRAFOIL®	8.98 (228.1)

Note: Approximate valve weight: 2.2 lb (1.0 kg).
0.187-inch (4.8 mm) diameter orifice.
Cv = .52, full open.

The KM25 and KM251 are supplied as standard with two 0.26-inch (6.7 mm) diameter mounting holes.

Valve Bonnet Identification

Dust Cap Coding The valve bonnet dust caps are color-coded to identify the gland packing/stem.

White Standard bonnet assembly Teflon packing.

Blue High pressure bonnet assembly Teflon packing.

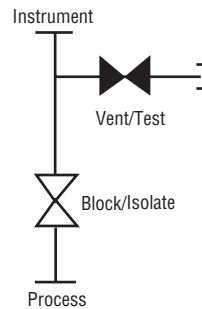
Green Sour Gas service Teflon packing.

Note: CS, SS and Monel® valves are suitable for most process applications, however for severe service, KM25/KM251 valves are also available in exotic materials. For other material requirements, contact Kerotest.

Standard Connections

Process and Instrument Threaded 1/2-inch NPT to ANSI/ASME B1-20-1.

Vent Threaded 1/4-inch NPT to ANSI/ASME B1-20-1.



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Standard Materials

Valve ①	Body	Bonnet	Stem	Ball Seat
CS ②	A108	A108	303 SS	17-4PH
SS	316 SS	316 SS	316 SS	316 SS
Monel	Monel 400	Monel 400	Monel 400	Monel K500
SG ③	316 SS	316 SS	Monel 400	Monel K500
SG3 ④	Hastelloy C276	Hastelloy C276	Hastelloy C276	Stellite

① Approximate valve weight: 3.3 lb (1.5 kg).

0.187-inch (4.8 mm) diameter orifice.

Cv = .52, full open.

② For CS valves with GRAFOIL packing, body and bonnet material is A105. For CS valves, non-wetted parts are all CS.

③ For SS, SG (Sour Gas meets the requirements of NACE MR0175-2002) and Monel valves, non-wetted parts are all austenitic SS.

④ SG3 (Sour Gas) meets the requirements of NACE MR0175-2003.

Note: Threaded connection: vent supplied with blanking plug as standard.

Pressure and Temperature Ratings

KM25

Valve	Teflon Bonnet (Standard)
CS, SS and Monel	6000 psig at 200°F (414 bar at 93°C) 4000 psig at 500°F (276 bar at 260°C)

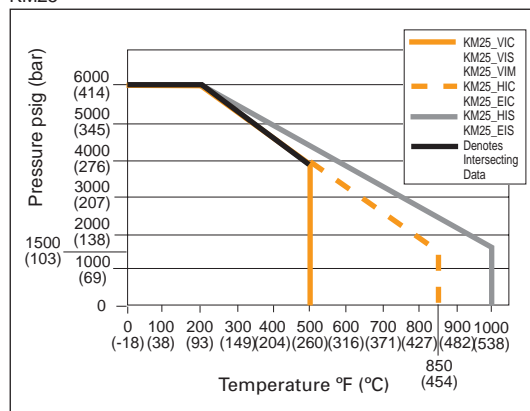
Valve	High Temperature Applications
CS	6000 psig at 200°F (414 bar at 93°C) 1500 psig at 850°F (103 bar at 454°C)
SS	6000 psig at 200°F (414 bar at 93°C) 1500 psig at 1000°F (103 bar at 538°C)

KM251

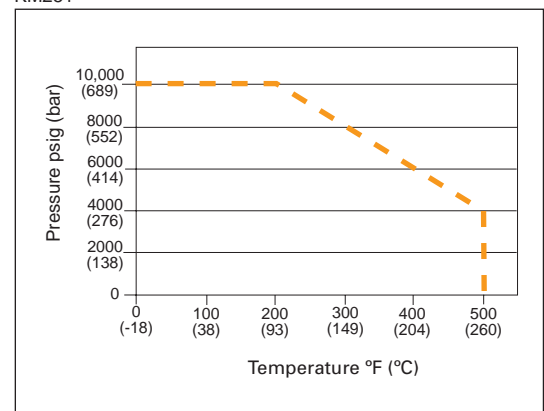
Valve	High Pressure Applications
SS	10,000 psig at 200°F (689 bar at 93°C) 4000 psig at 500°F (276 bar at 260°C)

Pressure vs. Temperature

KM25



KM251



Kerotest KM25 & KM251 Block & Bleed Gauge Valves

Ordering Information

KM25			<u>V</u> 1.	<u>I</u> 2.	<u>S</u> 3.	-	<u>4</u> 4.	-	<u>SG</u> 5.
Valve Type			3. Body Material			5. Options			
KM25 – Threaded x Threaded (Front Vent)			C – CS M–Monel S – SS J–Hastelloy			BL – Bonnet Lock Device KMB51 – KMC Mount Pipestand OC – Cleaned for Oxygen Service SG – Sour Gas Meets the Requirements of NACE MR0175-2002 (SS Valves Only) SG3 – Sour Gas Meets the Requirements of NACE MR0175-2003 ST – Stellite Ball Ended Stem SP – Special Requirements – Please Specify			
1. Packing			4. Process Connections						
V – Teflon H – GRAFOIL E – Low Emissions Graphite			Inlet x Outlet 2 –1/4-Inch FNPT x 1/4-Inch FNPT 4 ^① –1/2-Inch FNPT x 1/2-Inch FNPT 4M –1/2-Inch MNPT x 1/2-Inch MNPT 44 –1/2-Inch MNPT x 1/2-Inch FNPT 44F–1/2-Inch FNPT x 1/2-Inch MNPT 46 –3/4-Inch MNPT x 1/2-Inch FNPT C –Male Plain End in Lieu of MNPT						
2. Seat									
I – Integral									

KM251			<u>V</u> 1.	<u>I</u> 2.	<u>S</u> 3.	-	<u>4</u> 4.	-	<u>SG</u> 5.
Valve Type			3. Body Material			5. Options			
KM251 – Threaded x Threaded (Front Vent)			C – CS M–Monel S – SS J–Hastelloy			BL – Bonnet Lock Device KMB51 – KMC Mount Pipestand OC – Cleaned for Oxygen Service SG – Sour Gas Meets the Requirements of NACE MR0175-2002 (SS Valves Only) SG3 – Sour Gas Meets the Requirements of NACE MR0175-2003 ST – Stellite Ball Ended Stem SP – Special Requirements – Please Specify			
1. Packing			4. Process Connections						
V – Teflon			Inlet x Outlet 2 –1/4-Inch FNPT x 1/4-Inch FNPT 4 ^① –1/2-Inch FNPT x 1/2-Inch FNPT 4M –1/2-Inch MNPT x 1/2-Inch MNPT 44 –1/2-Inch MNPT x 1/2-Inch FNPT 44F–1/2-Inch FNPT x 1/2-Inch MNPT 46 –3/4-Inch MNPT x 1/2-Inch FNPT C –Male Plain End in Lieu of MNPT						
2. Seat									
I – Integral									

① Body length = 4.5-inch (114 mm)

All product names referenced herein are trademarks of their respective companies.

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