

SINGLE & DOUBLE BLOCK & BLEED MANIFOLD NEEDLE VALVES

BuTech
An Ingersoll Rand Business

SIMPLE, SAFE, RELIABLE HIGH-PRESSURE ISOLATION.

BuTech high-performance **Block & Bleed Needle Valves** deliver safe, compact, and efficient isolation for critical process and instrumentation systems.

Combining shutoff and venting functions into one streamlined assembly, BuTech needle valves reduce potential leak paths and simplify system design.

Available Styles

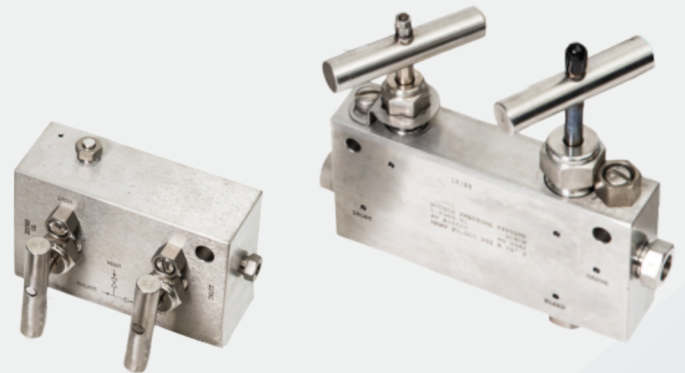
- ✓ Single Block & Bleed (SBB) Needle Valves
- ✓ Double Block & Bleed (DBB) Needle Valves
- ✓ Inline and compact manifold layouts
- ✓ Multiple configurations and connection sizes
- ✓ Materials include 316/316L stainless steel and other specialty alloys

Why Choose BuTech?

BuTech products deliver exceptional durability, precision, and reliability in the most demanding service conditions.

With dependable lead times and a reputation for consistent performance, customers benefit from trusted brand quality, flexible configuration options, and comprehensive global support - ensuring safe, efficient, and reliable flow control across every system.

A trusted brand in valve technology.



Key Benefits

Enhanced Safety

- ✓ Built-in dual isolation for confidence in critical environments
- ✓ Fewer leak paths and lower emissions for safer operation
- ✓ Ready for hazardous fluids and hydrogen applications

Efficiency & Space Savings

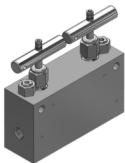
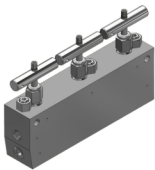
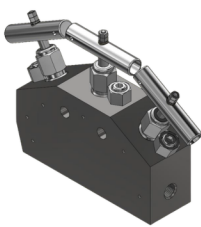
- ✓ One compact valve replaces multiple components
- ✓ Faster installs, cleaner layouts, less time on site
- ✓ Streamlined maintenance and easier system access

Reliable Performance

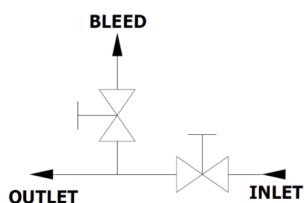
- ✓ Engineered for severe-service conditions
- ✓ Smooth, precise needle control every time
- ✓ Durable materials and flexible connection options for easy integration

MANIFOLD BLOCK & BLEED NEEDLE VALVES

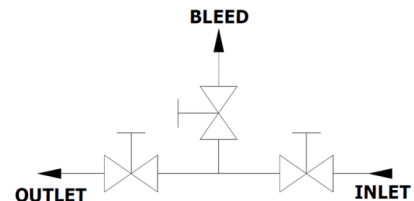
OVERVIEW

STYLE	CATALOG NUMBER	TYPE	CONNECTIONS	BLEED PORT
	20S1SBB4M	SBB	1/4" M/P	1/4" M/P
	20S1SBB6M	SBB	3/8" M/P	1/4" M/P
	20S1DBB4M	DBB	1/4" M/P	1/4" M/P
	20S1DBB6M	DBB	3/8" M/P	1/4" M/P
	20S2DBB4M	DBB	1/4" M/P	1/4" M/P
	20S2DBB6M	DBB	3/8" M/P	1/4" M/P
	20S2DBB9M	DBB	9/16" M/P	1/4" M/P
	20S3SBB4M	SBB	1/4" M/P	1/4" M/P
	20S4DBB4M	DBB	1/4" M/P	1/4" M/P
	20S4DBB6M	DBB	3/8" M/P	3/8" M/P
	20S5DBB4M	DBB	1/4" M/P	1/4" M/P
	20S5DBB6M	DBB	3/8" M/P	1/4" M/P

SBB = Single Block & Bleed



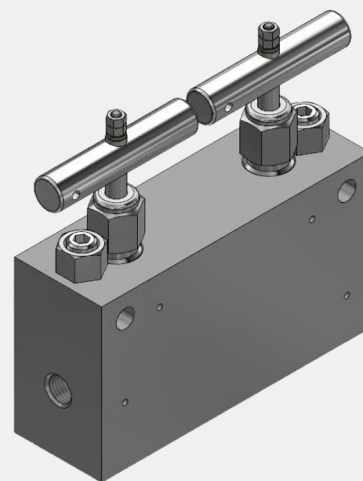
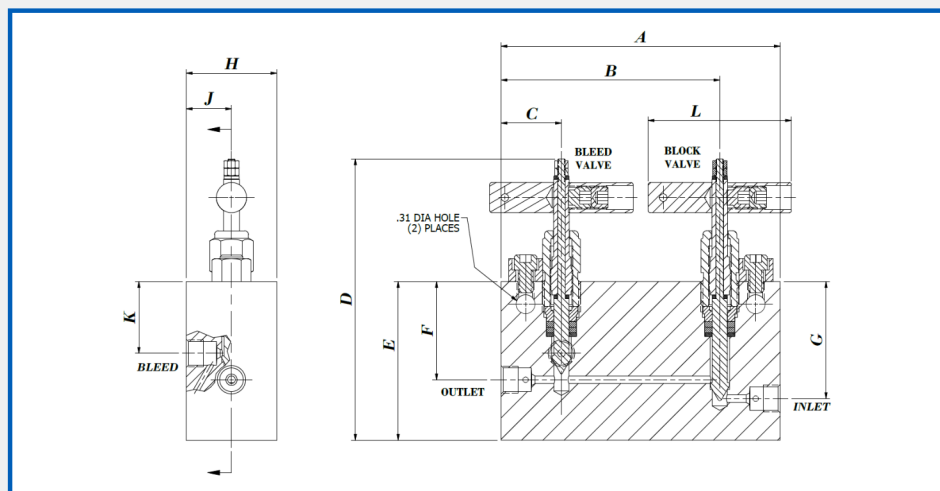
DBB = Double Block & Bleed



20S1 MANIFOLD BLOCK & BLEED NEEDLE VALVES

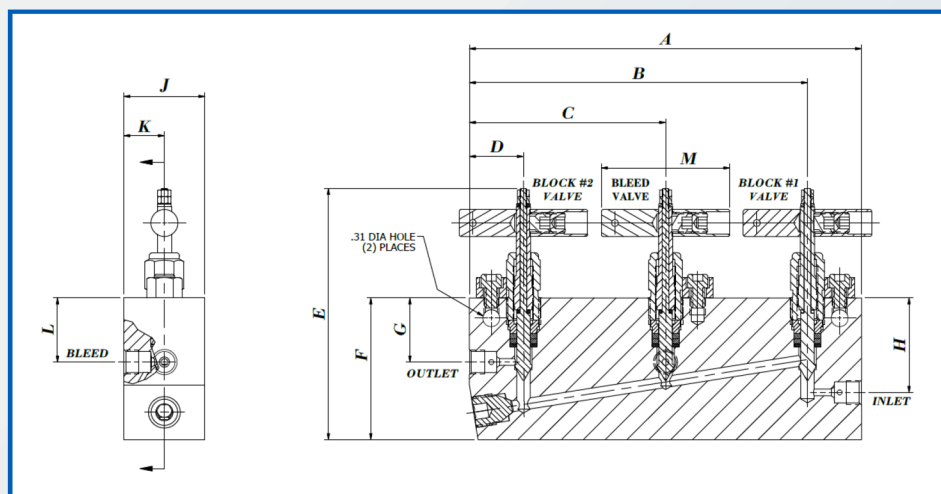
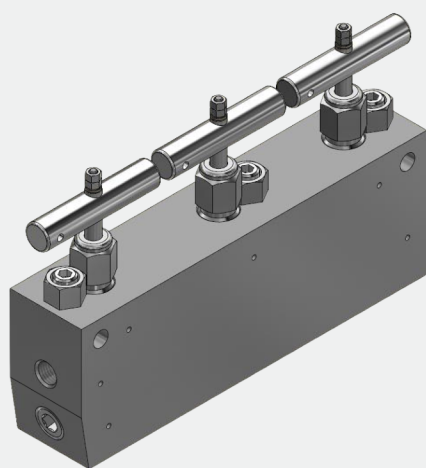
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SINGLE BLOCK & BLEED (SBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D (open)	E	F	G	H	J	K	L
20S1SBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	4.63" (117.6)	3.63" (92.2)	1.00" (25.4)	4.99" (126.75)	2.63" (66.8)	1.59" (40.38)	2.00" (50.8)	1.50" (38.1)	.75" (19.05)	1.19" (30.22)	2.38" (60.45)
20S1SBB6M	3/8" M/P	1/4" M/P	20,000 (1379)	.203" (5.16)	4.63" (117.6)	3.63" (92.2)	1.00" (25.4)	4.99" (126.75)	2.63" (66.8)	1.59" (40.38)	2.00" (50.8)	1.50" (38.1)	.75" (19.05)	1.19" (30.22)	2.38" (60.45)

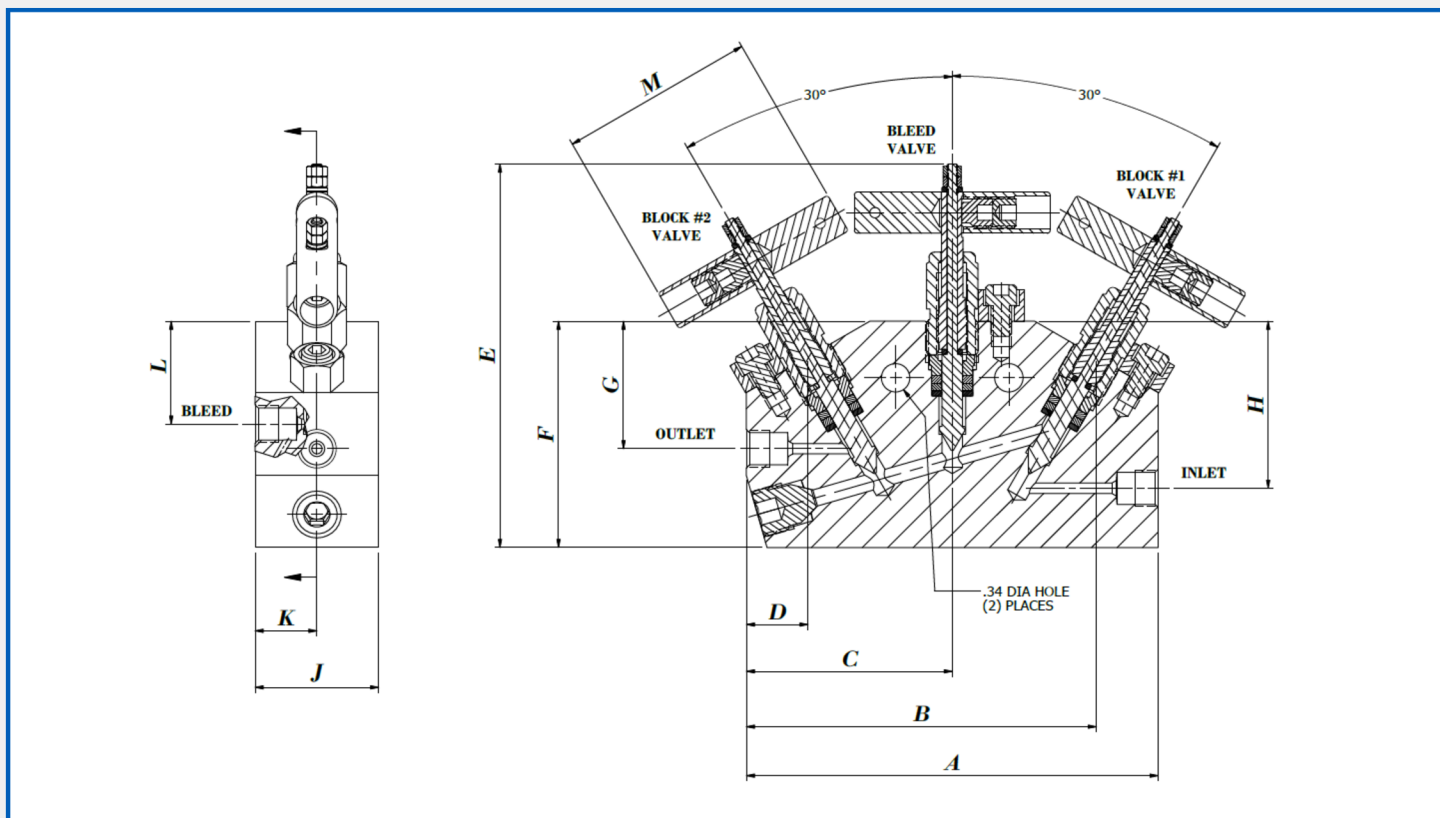
DOUBLE BLOCK & BLEED (DBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D	E (open)	F	G	H	J	K	L	M
20S1DBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	7.26" (184.40)	6.26" (159.0)	3.63" (92.20)	1.00" (25.4)	4.99" (126.75)	2.63" (66.8)	1.19" (30.22)	1.75" (44.45)	1.50" (38.1)	.75" (19.05)	1.19" (30.22)	2.38" (60.45)
20S1DBB6M	3/8" M/P	1/4" M/P	20,000 (1379)	.203" (5.16)	7.26" (184.40)	6.26" (159.0)	3.63" (92.20)	1.00" (25.4)	4.99" (126.75)	2.63" (66.8)	1.19" (30.22)	1.75" (44.45)	1.50" (38.1)	.75" (19.05)	1.19" (30.22)	2.38" (60.45)

20S2 MANIFOLD BLOCK & BLEED NEEDLE VALVES

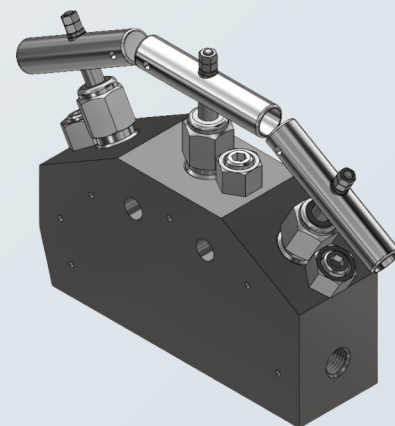
DOUBLE BLOCK & BLEED (DBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D	E (open)	F	G	H	J	K	L	M
20S2DBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	5.00" (127)	4.25" (107.95)	2.50" (63.5)	.75" (19.05)	5.03" (127.76)	2.75" (69.85)	1.55" (39.37)	2.03" (51.56)	1.50" (38.1)	.75" (19.05)	1.25" (31.75)	2.38" (60.45)
20S2DBB6M	3/8" M/P	1/4" M/P	20,000 (1379)	.203" (5.16)	5.00" (127)	4.25" (107.95)	2.50" (63.5)	.75" (19.05)	5.03" (127.76)	2.75" (69.85)	1.55" (39.37)	2.03" (51.56)	1.50" (38.1)	.75" (19.05)	1.25" (31.75)	2.38" (60.45)
20S2DBB9M	9/16" M/P	1/4" M/P	20,000 (1379)	.312" (7.92)	7.00" (177.8)	5.75" (146.05)	3.50" (88.9)	1.25" (31.75)	6.25" (158.75)	3.88" (98.55)	2.00" (50.8)	2.75" (69.85)	1.75" (44.45)	.88" (22.35)	1.19" (30.22)	3.00" (76.2)

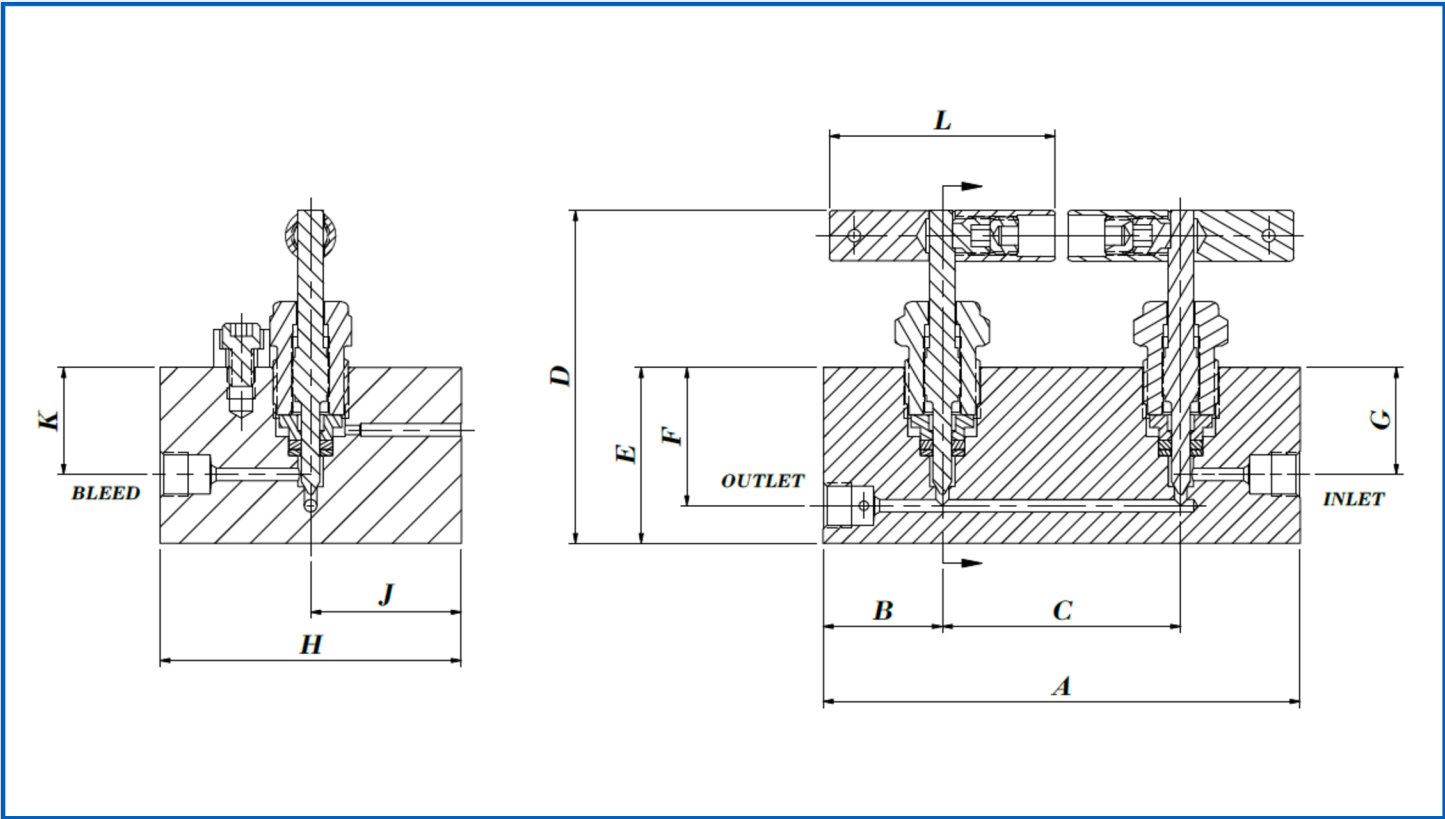
A high-pressure isolation solution ideal for tight instrumentation layouts. With a consistent 20,000 psi (1379 bar) rating and multiple connection sizes, these valves offer reliable shutoff and venting performance in a smaller footprint than many other DBB models.

- Compact design for panel-space efficiency.
- High-pressure rating of 20,000 psi across all configurations.
- Multiple connection options with a standard 1/4" bleed port.
- Optimised flow with orifice sizes up to 0.312" on larger models.
- Built on BuTech's proven durability and precision, ensuring reliable performance in demanding applications.



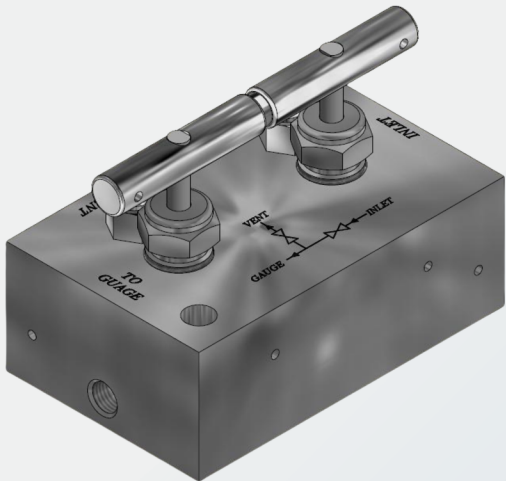
20S3 MANIFOLD BLOCK & BLEED NEEDLE VALVES

SINGLE BLOCK & BLEED (SBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D (open)	E	F	G	H	J	K	L
20S3SBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	4.75" (120.7)	1.19" (30.1)	2.37" (60.2)	3.63" (92.2)	1.75" (44.5)	1.37" (34.8)	1.06" (27.0)	3.00" (76.2)	1.50" (38.1)	1.06" (27.0)	2.25" (57.2)

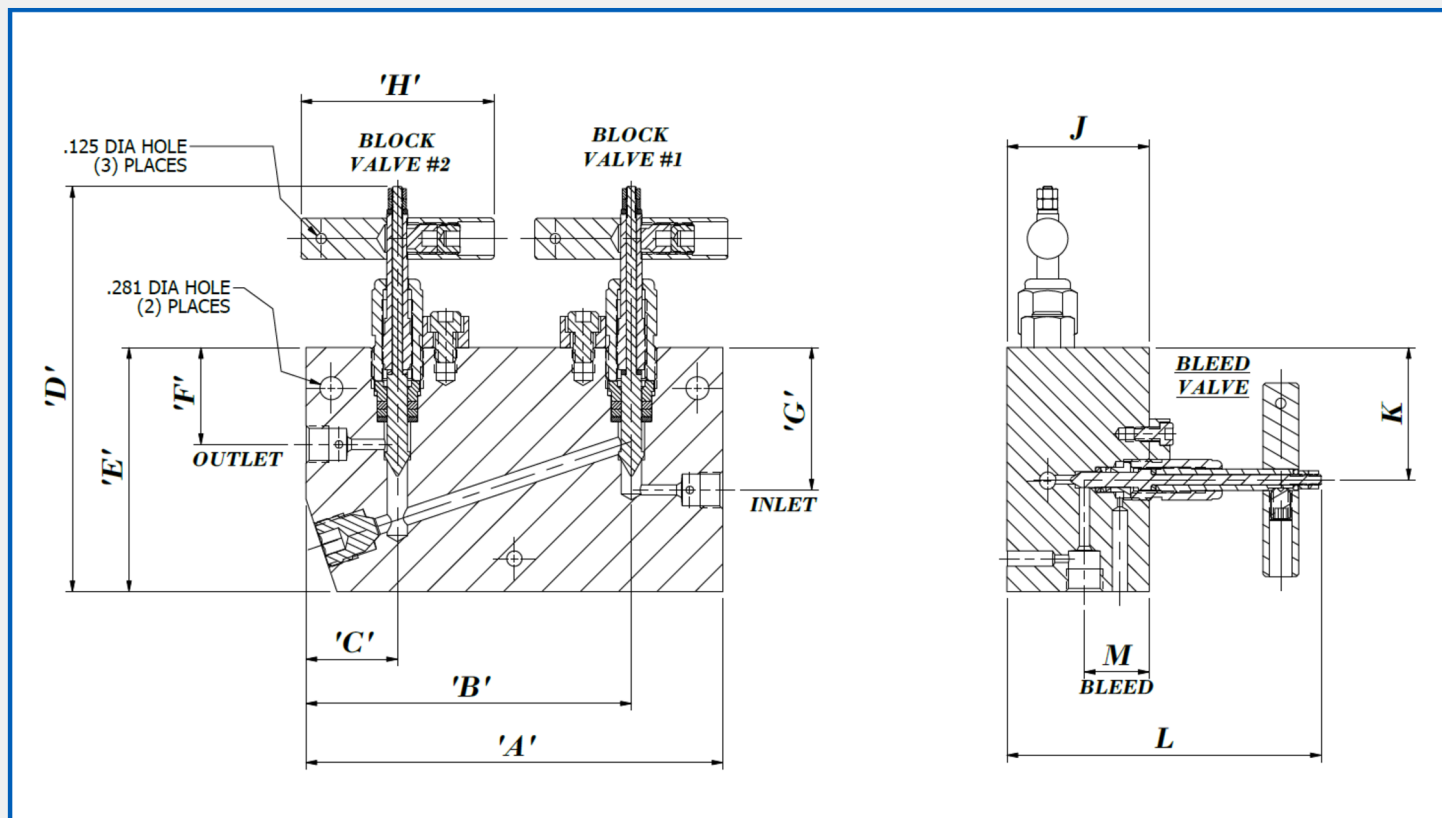
A single block & bleed solution designed for reliable isolation and venting in critical instrumentation systems. With a full 20,000 psi (1379 bar) rating and a streamlined body layout, these valves provide strong performance in applications where a smaller SBB footprint is preferred.



- Compact single-block design with for easy integration into tight panels.
- High-pressure capability at 20,000 psi.
- Standard 1/4" M/P connections, simplifying compatibility across instrumentation setups.
- Efficient flow path via a 0.125" (3.18 mm) orifice sized appropriately for SBB applications.
- Built on BuTech's proven durability and precision, ensuring dependable isolation performance in demanding conditions

20S4 MANIFOLD BLOCK & BLEED NEEDLE VALVES

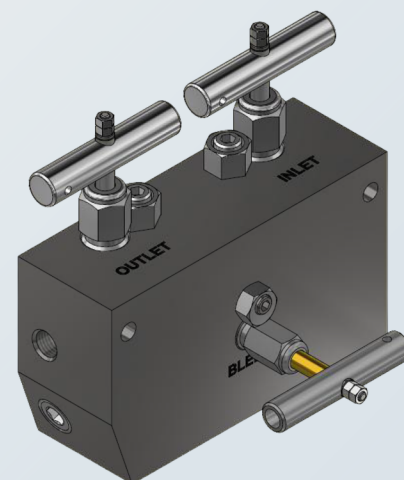
DOUBLE BLOCK & BLEED (DBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D (open)	E	F	G	H	J	K	L (open)	M
20S4DBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	5.13" (130.30)	4.00" (101.6)	1.13" (28.70)	5.33" (135.38)	3.00" (76.2)	1.19" (30.1)	1.75" (44.5)	2.38" (60.45)	1.75" (44.5)	1.63" (41.40)	4.03" (102.36)	.80" (20.32)
20S4DBB6M	3/8" M/P	3/8" M/P	20,000 (1379)	.203" (5.16)	5.13" (130.30)	4.00" (101.6)	1.13" (28.70)	5.33" (135.38)	3.00" (76.2)	1.19" (30.1)	1.75" (44.5)	2.38" (60.45)	1.75" (44.5)	1.63" (41.40)	4.03" (102.36)	.80" (20.32)

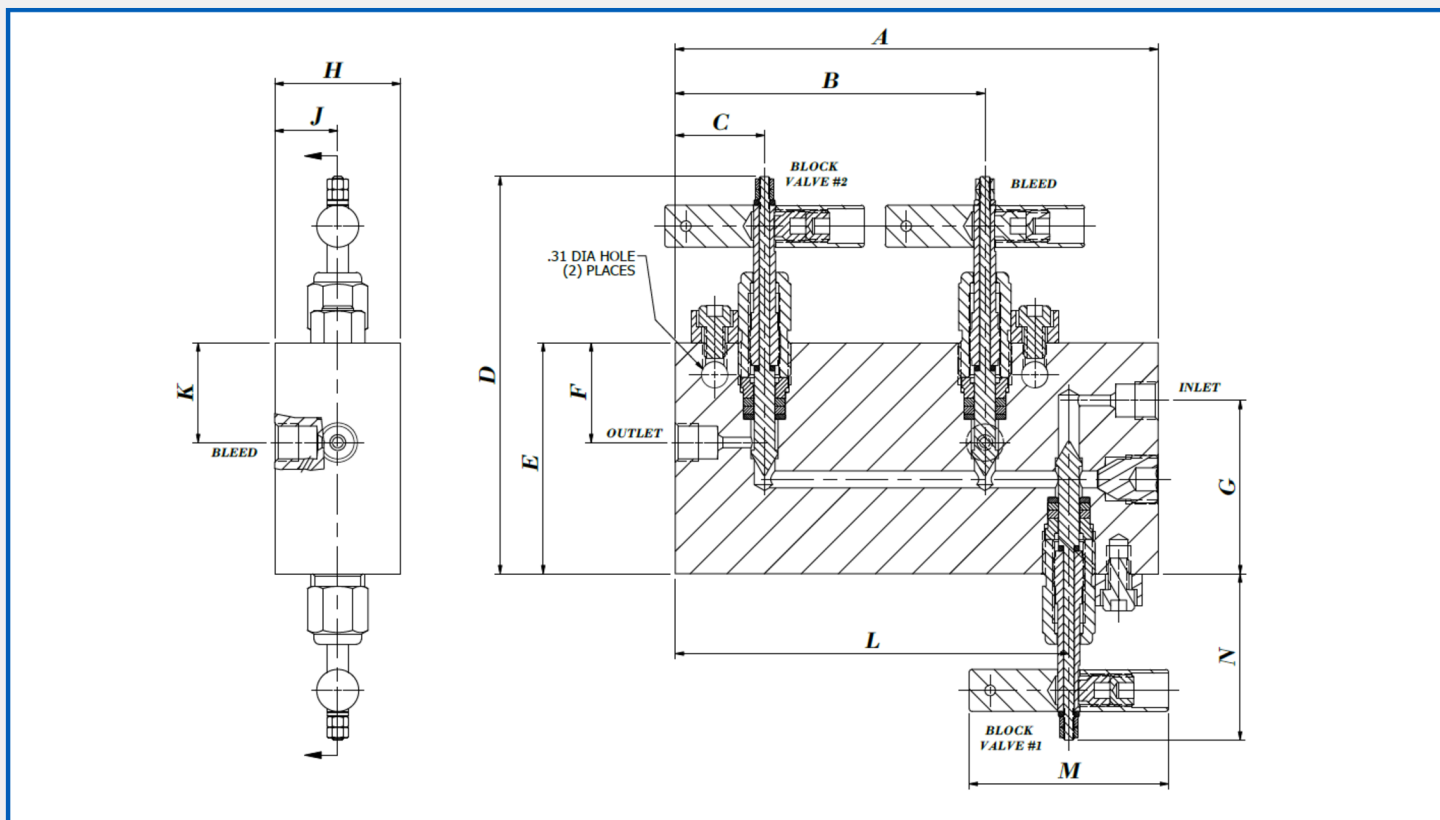
A robust double block & bleed solution with a compact profile and full 20,000 psi (1379 bar) pressure capability. Designed for demanding high-pressure instrumentation applications, these valves offer a balanced combination of strength, streamlined dimensions, and dependable isolation performance, making them well-suited for hazardous and space-constrained environments.

- Compact yet durable DBB layout, featuring a short overall length of 5.13" (130.30 mm) with a thickness of 1.75" (44.5 mm) for efficient panel use.
- High-pressure rating of 20,000 psi, consistent across all model variants.
- Multiple connection options with matching or 1/4" bleed ports.
- Engineered with BuTech's proven precision and reliability, ensuring strong isolation performance in high-pressure and hazardous service environments.

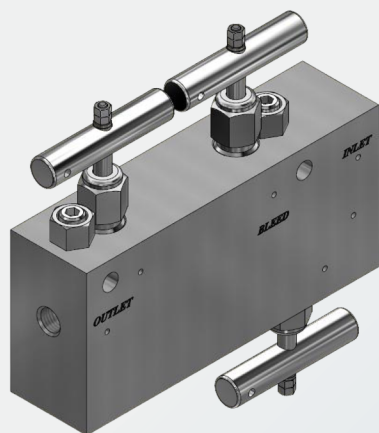


20S5 MANIFOLD BLOCK & BLEED NEEDLE VALVES

DOUBLE BLOCK & BLEED (DBB)



Catalog Number	Connection	BLEED Connection	MAWP PSI (bar)	Orifice	A	B	C	D (open)	E	F	G	H	J	K	L	M	N (open)
20S5DBB4M	1/4" M/P	1/4" M/P	20,000 (1379)	.125" (3.18)	4.87" (123.7)	3.69" (93.72)	1.062" (26.97)	5.08" (129)	2.75" (69.85)	1.19" (30.1)	2.06" (52.32)	1.50" (38.1)	.75" (19.05)	1.19" (30.1)	4.69" (119.12)	2.38" (60.45)	2.36" (59.94)
20S5DBB6M	3/8" M/P	1/4" M/P	20,000 (1379)	.203" (5.16)	4.87" (123.7)	3.69" (93.72)	1.062" (26.97)	5.08" (129)	2.75" (69.85)	1.19" (30.1)	2.06" (52.32)	1.50" (38.1)	.75" (19.05)	1.19" (30.1)	4.69" (119.12)	2.38" (60.45)	2.36" (59.94)



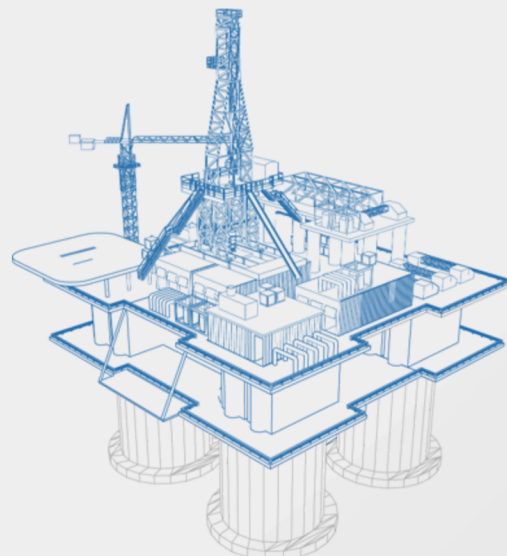
This series of valves delivers a compact, high-pressure double block & bleed solution with a slightly narrower body profile and efficient geometry compared to other DBB families. With a design optimized for strength and accessibility, these models are well-suited for applications requiring reliable shutoff, venting, and ease of installation in demanding instrumentation systems.

- Space-efficient body profile, featuring a short overall length of 4.87 (123.7 mm) and compact dimensions that simplify panel integration.
- Consistent 20,000 psi pressure rating, ensuring dependable performance across all variants.
- Engineered for strength and reliability, carrying forward BuTech's proven performance in high-pressure, hazardous service environments.

Industries & Applications

BuTech Block & Bleed Needle Valves are trusted across global industries where accuracy, safety, and reliability are critical:

- ✓ **Oil & Gas Production & Processing** – Ideal for instrumentation panels, isolation circuits, venting, pressure verification, and hazardous-fluid environments.
- ✓ **General Industrial Systems** – Used in sampling, calibration, and maintenance isolation where compact efficiency is essential.
- ✓ **Hydrogen Service (select models)** – Suitable for high-pressure hydrogen applications requiring robust sealing performance.



What Sets Us Apart

Unmatched Reliability in High-Pressure Systems

Engineered for the toughest environments, BuTech valves deliver rugged durability and precise flow control trusted in critical applications.

Safer, Cleaner System Designs

Integrated block & bleed construction reduces the number of components and leak paths, supporting safer operation in hazardous service.

Quicker Installation, Quicker Turnaround

Fewer fittings and simplified layouts mean faster installation, easier maintenance, and improved uptime for instrumentation panels.

Lead Times You Can Count On

BuTech's reputation for accurate, dependable delivery helps partners plan with confidence and avoid costly project delays.

Configurations for Every Challenge

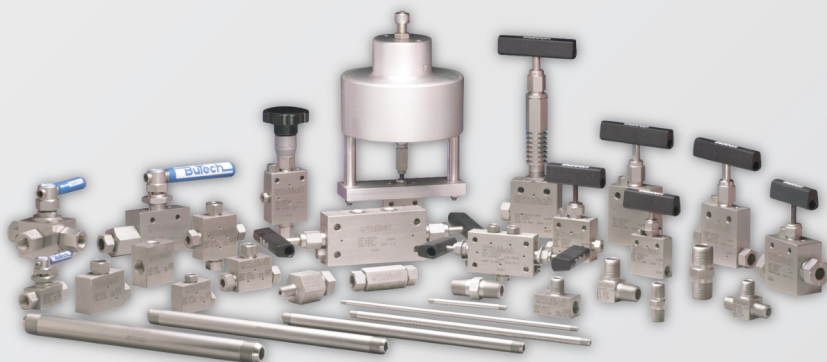
With a broad range of connection types and manifold layouts, the portfolio adapts easily to diverse system requirements around the world.

Global Support, Wherever You Work

Backed by a worldwide network, BuTech ensures reliable service and technical support - from specification through operation.

Disclaimer & Warning

It is always the system designer and the end-user responsibility to verify that all equipment used is properly selected to ensure safety and integrity of their systems. Haskel offers only general information based on common market knowledge and standard market adaptation for its valves. For each system and use, the system designer and end-user must consider the particular operating conditions, media parameters, and any other implications of their system for the proper selection of valves to be used.



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BuTech Valves can meet your needs?

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