Instrumentation Valves





Contents

Introduction	2
Model Numbering System	3
Hand Valves VX1, VX2 and VX3	4
Forged Hand Valves FVX1, FVX2, FVX1A, FVX2A, OFVX1 and OFVX2	5
Rising Plug Valves PVX1, PVX2, PVX4 and PVX4L	6
High Pressure Ball Valves BVX1, BVX2, BVX4 and BMVX1	7
Gauge Valves VX4 and VX4L	8
2 Valve Manifolds MX1, MX1MF and MX1D	9
3 Valve Manifolds MX2A, MX3A, MX4, MX5 and MX6	10
5 Valve Manifolds MX7, MX25, MX8 and MX9	11
Monoflange Valves MVX1, MX14, MX15 and MDBBX YMVX1, YMX14, YMX15 and YMDBBX	12 13
Integral Class Valves BDBBX BDBX, BSBBX and DBBX	14 15
Air Distribution Manifolds ADMX	16
Accessories Check Valve, Gauge Adaptor & Gauge Syphon Bleed Plugs & Pressure Blanking Plugs, Kidney Flanges Anti-Tamper Facility, Mounting Brackets, Handwheel, Locking Facility, Locking Brackets & Weld Ends	17 17 18 18
Valve Head Types Needle Valve	19

Needle Valve - RV Model Outside Screw & Yoke Valve Ball Valve

Introduction

The Sabre range of instrument valves and accessories has been specifically developed to meet the needs of clients wishing to ensure ease of installation, long term in-service dependability and minimum life-time costs for their operations.

Sabre provides valve solutions to satisfy the requirements of all instrument system applications and is the preferred valve supplier to many leading operators and contractors in the oil and gas, petrochemical, process and power industries worldwide.

Sabre instrument valves and manifolds are supplied as standard with:

- Full material traceability
- NACE compliance
- 100% functional pressure testing
- Functional Test Certification
- Letter of Conformity
- PED CE marking where applicable

All Sabre products are manufactured in modern facilities operating ISO9001:2008 Quality Management, ISO14001 Environmental Management and OHSAS18001 Occupational Health and Safety Management systems. In addition, Sabre is an accredited supplier with a number of industry bodies including 1st Point Assessment and Achilles Joint Qualification System.

Model Numbering System Sabre

VALVE STYLE	BMVX1_64_RJN	NT- <u>F51-90</u>	0P-B4-S	G FS L	
VALVE STYLE Example shows monoflange in ASTM A182 F51 with ANS Ring Type Joint inlet and 1/2" Valve is 1/2" bore, NACE com firesafe and is lockable. Inlet/Outlet Sizes (Inlet and/or Outlet Flang) $1/2"$ - 4 $3/4"$ - 6 1" - 8 $11/2"$ - 12 $13/16"$ - 14.5 2" - 16 $21/16"$ - 16.5 3" - 24 4" - 32 Inlet/Outlet Sizes (Inlet and Outlet Threade $1/4"$ Female x $1/4"$ Female $3/6"$ Female x $3/6"$ Female $3/6"$ Female	ball valve I ¾" 900lb NPT outlet. pliant, ed)	1 - F 51-90	<u>UP-</u> B4-S	Ac SG AS FS L AT MH PM ME HW P DG TA EX LS Bo (Ba B3 B4 B3 B4 B3 B4 B3 B4 B3 B4 B3 B4 B3 B4 B6 B3 B3 B4 B3 B4 B5 B3 B4 B3 B4 B3 B4 B5 B3 B4 B3 B4 B3 B4 B5 B3 B4 B5 B3 B4 B5 B3 B4 B5 B3 B4 B5 B5 B3 B4 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	 Anti Static Firesafe Lockable Anti Tamper Mounting Holes Panel Mount Mounting Bracket VL - Handwheel Paint Degreased for Oxygen Service G - Tag/Nameplate T - Extended Spindles (for insulation Lip Seal Design re Size all Valves only) 3/s" (10mm) 1/2" (12.7mm) 3/4" (19mm) 1" (25mm)
Inlet/Outlet Connection T NT - NPT Thread BT - BSP Taper Th BP - BSP Parallel T RFNT - RF Flange x N RFRF - RF Flange x F RJNT - RTJ Flange x RJRJ - RTJ Flange x APINT - API Flange x APIAPI - API Flange x CFNT - Compact Flan	read Thread IPT Thread IPT Thread RTJ Flange NPT Thread NPT Thread NPT Thread			(Ne HT HG PT RV Se (Ba T/H T/H T/H T/F	 G - Metal Seat Graphite Packing G - Soft Seat PTFE/PEEK Packing
611 - BS970 316 S ² 612 - BS1504 316 C 316 - ASTM A182 F DUP - UNS S31803	F2 Carbon Steel 1 Stainless Steel 12 Stainless Steel 316 Stainless Steel Duplex Stainless Steel			P/H P/F 6 10	HG - PEEK Seat Graphite Packing RV - PEEK Seat Ball Tip Viton Packing essure Rating - 6000psi
SDUP - UNS S32750/ F55 - ASTM A182 F	51 Duplex Stainless Ste 32760 Super Duplex 55 Super Duplex um Stainless Steel nel)	CI		250 500	0 - ANSI 300lb 0 - ANSI 600lb 0 - ANSI 900lb 00 - ANSI 1500lb 00 - ANSI 2500lb

Sabre Hand Valves

The Sabre range of needle type hand valves can be supplied with metal to metal or soft seats. The valves are suitable for use as isolation valves for liquid or gaseous service.

Female/Female

- Single isolation valveFemale inlet and outlet
- connections
- Full range of head unit options

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MODEL NUMBER	CONNECTIONS INLET OUTLET		O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
VX1-2	¹ /4" Female	1/4" Female	58	28.5	86	0.5
VX1-3	3/8" Female	3/8" Female	68	28.5	86	0.5
VX1-4	1/2" Female	1/2" Female	68	28.5	86	0.5
VX1-6	³ /4" Female	3/4" Female	70	38.1	90	0.7
VX1-8	1" Female	1" Female	70	50.8	97	0.8

HEEL HT en) 0.5 0.5 0.5 0.5 0.7

Male/Female

- Single isolation valve
- Male inlet and female outlet connections
- Full range of head unit options



MODEL NUMBER	CONNECTIONS INLET OUTLET		O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
VX2-22	¹ /4" Male	¹ / ₄ " Female	95	28.5	86	0.5
VX2-44	¹ /2" Male	¹ / ₂ " Female	100	28.5	86	0.6
VX2-64	³ /4" Male	¹ / ₂ " Female	100	28.5	86	0.6



Isolation valve with vent

- Gauge valve
- Male or female inlet connection options
- Female outlet connection
- Captive vent plug
- Full range of head unit options

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MODEL NUMBER	CONNECTIONS INLET OUTLET		O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
VX3-4	¹ /2" Female	¹ /2" Female	75	28.5	86	0.5
VX3-22	¹ /4" Male	¹ /4" Female	100	28.5	86	0.5
VX3-44	¹ /2" Male	¹ /2" Female	100	28.5	86	0.6
VX3-64	³ /4" Male	¹ /2" Female	100	28.5	86	0.6



VX2

VX1

6

Forged Hand Valves Sabre

The Sabre range of forged needle type hand valves are high pressure, high performance valves for special use as isolation valves for liquid or gaseous service. Designed as a "one-piece" integral stuffing box and body, the valve provides strength and material hardness for extreme operating conditions.

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Straight Pattern

- Single isolation valves -Straight pattern
- Robust forged constructionMale or female inlet
- connection options

MODEL

FVX1-2

FVX1-4

FVX2-44

NUMBER

Female outlet connection

INLET

1/4" Female

1/2" Female

1/2" Male

Full range of head unit options

CONNECTIONS

OUTLET

1/4" Female

1/2" Female

1/2" Female

↓ ↓ ↓ ↓		
BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg

0.5

0.5

0.5

₽

34

34

34

FVX1 & FVX2

Angle Pattern

- Single isolation valves -Angle pattern
- Robust forged construction Male or female inlet
- connection optionsFemale outlet connection
- Full range of head unit options



86

86

86

MODEL NUMBER			O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
FVX1A-2 FVX1A-4 FVX2A-22 FVX2A-44	¹ /4" Female ¹ /2" Female ¹ /4" Male ¹ /2" Male		55.1 55.1	34 34 34 34	80 80 80 80	0.5 0.5 0.5 0.5

O/A

LENGTH

L

76

76

76

FVX1A & FVX2A



Oblique Pattern

- Single isolation valves -
- Oblique pattern
- Robust forged construction
- Male or female inlet
- connection optionsFemale outlet connection
- Full range of head unit options



MODEL NUMBER	CONNECTIONS R INLET OUTLET		O/A LENGTH A mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
OFVX1-4	¹ /2" Female	¹ /2" Female	76	34	96	0.5
<mark>OFVX2-44</mark>	¹ /2" Male	1/2" Female	76	34	96	0.5



Sabre Rising Plug Valves

The Sabre range of rising plug valves incorporates a straight through design giving good flow capacity and flow control. Suitable for use as isolation valves for liquid or gaseous service.

Isolation Valve

- · Single isolation valves -Straight pattern
- Soft seated rising plug
- Replaceable PVDF seat
- Male or female inlet connection options
- Female outlet connection
- · Full range of head unit options

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MODEL NUMBER	R INLET OUTLET		O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
PVX1-2	¹ /4" Female	¹ /4" Female	58	31.75	88	0.5
PVX1-4	¹ /2" Female	¹ /2" Female	68	31.75	88	0.5
PVX2-44	¹ /2" Male	¹ /2" Female	100	38.10	90	0.6

1

Gauge Valve Type

- Gauge valve Straight pattern
- Soft seated rising plug
- Replaceable PVDF seat
- Male or female inlet connection options
- 3 x Female outlet connections
- Multi-port configuration for bleed/blanking plugs
- Full range of head unit options

MODEL NUMBER		CTIONS OUTLET	O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg	1	
PVX4-4 PVX4-44 PVX4-64	¹ /2" Female ¹ /2" Male ³ /4" Male	¹ /2" Female ¹ /2" Female ¹ /2" Female	100 100 100	38.10 38.10 38.10	90 90 90	0.6 0.6 0.6		

Extended Gauge Valve Type

- Gauge valve Straight pattern
- · Extended male inlet for insulation clearance · Extended weld end connection option
- available
- Soft seated rising plug Replaceable PVDF seat
- 3 x Female outlet connections
- · Multi-port configuration for bleed/blanking plugs
- · Full range of head unit options

MODEL NUMBER	CONNE INLET	CTIONS OUTLET	O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
PVX4L-44	¹ /2" Male	¹ /2" Female	170	38.10	90	1.2







PVX4

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PVX1 & PVX2

High Pressure Ball Valves Sabre

Sabre high pressure ball valves are uniquely designed to provide a high pressure (up to 10,000 psig) & high performance valve with absolute safety and reliability. They are suitable for special applications as isolation valves for liquid or gaseous service. The gauge valves are suitable for installation between process and gauge or instrumentation legs.

Isolation Valve

BVX1 & BVX2

- Single isolation ball valves
- Male or female inlet and outlet connection options
- 10mm orifice size
- Available with anti-tamper, lockable and panel mount option

lockable and panel mount options							
MODEL NUMBER		CTIONS OUTLET	O/A LENGTH L mm	BODY SECTION A mm	LEVER HEIGHT H (open) mm	WEIGHT kg	
BVX1-2 BVX1-4 BVX1-6 BVX1-8 BVX2-44 BVX2-66	¹ /4" Female ¹ /2" Female ³ /4" Female 1" Female ¹ /2" Male ³ /4" Male	¹ /4" Female ¹ /2" Female ³ /4" Female 1" Female ¹ /2" Female ³ /4" Female	110 110 110 117 110 110	44 44 44 44 44 44	53 53 53 53 53 53 53	0.9 0.9 0.9 1.0 0.9 0.9	
BVX2-88	1" Male	1" Female	117	44	53	1.0	

O/A

LENGTH

L mm

122

134

38.1

38.1



Gauge Valve Type

- · Gauge ball valve
- Male or female inlet connection options
- 3 x Female outlet connections
- 10mm orifice size

MODEL

BVX4-4

BVX4-44

NUMBER

 Multi-port configuration for bleed/blanking plugs

INLET

1/2" Female

1/2" Male

· Full range of head unit options

CONNECTIONS

	T	. 4	
4	BODY SECTION A mm	LEVER HEIGHT H (open) mm	WEIGHT kg

53

53

1.3

13



Monoflange Valve Type

OUTLET

1/2" Female

1/2" Female

- · Single isolation ball valve
- Flanged inlet and flanged or threaded outlet option
- Available in a variety of bore sizes and materials
- Supplied complete with captive bolts, nuts and washers
- Pressure class ANSI 150lb 2500lb and up to API 10000



All dimensions according to connection details



BVX4

BMVX1

Sabre Gauge Valves

The Sabre range of needle type gauge valves can be supplied with metal to metal or soft seats. Suitable for installation between process and gauge or instrumentation legs.

Female/Female

VX4-4

VX4-44/64

 Gauge valve Ш · Female inlet connection • 3 x Female outlet connections • Multi-port configuration for optional bleed/blanking plugs see page 17 · Full range of head unit options BODY HANDWHEEL O/A MODEL CONNECTIONS WEIGHT LENGTH SECTION HEIGHT NUMBER INLET OUTLET L А H (open) kg mm mm mm VX4-2 1/4" Female 28.5 0.5 1/4" Female 75 86 VX4-4 1/2" Female 1/2" Female 100 32 88 0.6

Male/Female

Gauge valve

MODEL

VX4-22

VX4-44

VX4-64

NUMBER

- Male inlet connection
- 3 x Female outlet connections • Multi-port configuration for optional bleed/blanking plugs see page 17
- · Full range of head unit options

CONNECTIONS

OUTLET

1/2" Female

1/2" Female

3/4" Female

INLET

1/2" Male

1/2" Male

3/4" Male





Extended Inlet

- Gauge valve
- Extended male inlet for insulation clearance
- Extended weld end connection option available
- 3 x Female outlet connections Multi-port configuration for
- optional bleed/blanking plugs see page 17

Full range of head unit options								
MODEL NUMBER	CONNE INLET	CTIONS OUTLET	O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg		
VX4L-44 VX4L-64		¹ /2" Female ¹ /2" Female	170 170	32 32	88 88	1.2 1.2		



2 Valve Manifolds Sabre

The Sabre range of 2 valve manifolds are available for direct or remote mounting and can be supplied with metal to metal or soft seats. Suitable for installation between process and gauge or instrumentation legs.

Female/Female



Male/Female

- Single isolate and vent valve
 Remote mounting barstock body
- Male inlet and female outlet connections
- Integral female vent port (plugged)
- Full range of head unit options



MODEL NUMBER	CTIONS OUTLET	O/A LENGTH L mm	BODY SECTION A mm	HANDWHEEL HEIGHT H (open) mm	WEIGHT kg
MX1MF-44	¹ /2" Female	120	31.75	88	1.2
MX1MF-64	¹ /2" Female	120	31.75	88	1.2

Direct Mounting

- · Single isolate and vent valve
- Direct mounting barstock body
- Female inlet connections
- Flanged outlet connections
- with 54mm centresIntegral female vent port
- (plugged)
 Cast body option for reduced disturbance of pipework (photo inset)
- · Full range of head unit options

MODEL	CONNEC	TIONS	WEIGHT
NUMBER	INLET	OUTLET	kg
MX1D-44-611	¹ /2" Female	Flanged	1.4
MX1D-44-612	¹ /2" Female	Flanged	2.5





MX1MF

MX1D

MX1

Sabre 3 Valve Manifolds

The Sabre range of direct and remote mounting needle type 3 valve manifolds can be supplied with metal to metal or soft seats. Both manifold types have integral, equalise and two isolate valves.

Direct Mounting Barstock Body

MX2A & MX3A

MX4



Remote Mounting Barstock Body



Direct Mounting Cast Body

- Double isolate and equalise
 3 valve manifold
- Direct mounting cast body
- Female inlet (MX5) or flanged inlet (MX6)
- Flanged outlet on 54mm centres as standard with other centres available
- Cast body for reduced disturbance of pipework
- Optional vent/purge ports available
- Full range of head unit options

MODEL	CONNE	WEIGHT	
NUMBER	INLET	kg	
MX5-2	¹ /4" Female	Flanged	2.6
MX5-4	¹ /2" Female	Flanged	2.6
MX6-R	Flanged	Flanged	2.6



5 Valve Manifolds Sabre

The Sabre range of direct mounting needle type 5 valve manifolds can be supplied either with metal to metal or soft seats. Both manifold types have two isolation valves, two vent valves and an equalise valve together with integral vent ports. Purge ports may be added as an option.

Remote Mounting Barstock Body



Direct Mounting Barstock Body

WEIGHT

kg

4.0

4.0

- Double isolate, equalise and double vent 5 valve manifold
- Direct mounting barstock body
- Female inlet connection
- Flanged outlet on 54mm centres
- Full range of head unit options

INLET

1/4" Female

1/2" Female

CONNECTIONS

OUTLET

Flanged

Flanged

MODEL

MX25-2

MX25-4

NUMBER



Direct Mounting Cast Body

- Double isolate, equalise and double vent 5 valve manifold
- Direct mounting cast body
- Female inlet (MX8) or flanged inlet (MX9)
- Flanged outlet on 54mm centres
- Cast body option for reduced disturbance of pipework
- Optional vent/purge ports available
- Full range of head unit options







MX8 & MX9

MX25

MX7

Sabre Monoflange Valves

The Sabre range of instrument gauge block manifolds is suitable for direct flange mounting on horizontal and vertical pipe lines.

Single Isolation Valve

- Single isolation monoflange valve
- Flanged inlet and flanged or threaded outlet options
- Flange by flange option supplied complete with captive bolts, nuts and washers
- 150/300/600lb, 900/1500/2500lb and up to API 10000 pressure classes
- Full range of head unit options



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Block & Bleed Valve

- Block and bleed monoflange valve
- Full range of flange connection options
- Suitable for vertical or horizontal mounting to process pipelines
- 360 degree rotatable male or female adaptor available
- Integral gauge siphon option
 Pressure class 150/300/600lb
- designated LPR (MX14)
 Pressure class 900/1500/2500lb designated HPR - (MX15)
- Vent sizes: ¹/₄" NPT, ¹/₂" NPT or G ¹/₄" parallel thread with locking pin.

All dimensions according to flange size



Double Block & Bleed Valve

- Double block and bleed
 monoflange valve
- Full range of flange connection options
- Suitable for direct mounting to process pipelines
- 360 degree rotatable male or female adaptor available
- Integral gauge siphon option150/300/600lb,
- 900/1500/2500lb and up to API 10000 pressure classes
- Vent sizes: ¹/₄" NPT, ¹/₂" NPT or G ¹/₄" parallel thread with locking pin.



All dimensions according to flange size



MX14 & MX15

MDBBX

MVX1

Monoflange Valves Sabre

The Sabre range of instrument gauge block manifolds is suitable for direct flange mounting on horizontal and vertical pipe lines. Fitted with bolted bonnet primary isolation for increased safety.

Single Isolation Valve

- · Single isolation monoflange valve
- Primary isolation valve piping class OS&Y construction
- Flanged inlet and flanged or threaded outlet options
- Flange by flange option supplied complete with captive bolts, nuts and washers
- 150/300/600lb, 900/1500/2500lb and up to API 10000 pressure classes
- · Full range of head unit options



Line

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Block & Bleed Valve

- Block and bleed monoflange valve
- Primary isolation valve piping class OS&Y construction
- Full range of flange connection options
- Suitable for vertical or horizontal mounting to process pipelines
- 360 degree rotatable male or female adaptor available
- Integral gauge siphon option Pressure class 150/300/600lb
- designated LPR (YMX14) Pressure class 900/1500/2500lb
- designated HPR (YMX15)
- Vent sizes: 1/4" NPT, 1/2" NPT or G 1/4" parallel thread with locking pin.



Double Block & Bleed Valve

- Double block and bleed monoflange valve
- Primary isolation valve piping class OS&Y construction
- Full range of flange connection options
- Suitable for direct mounting to process pipelines
- 360 degree rotatable male or female adaptor available
- Integral gauge siphon option 150/300/600lb, 900/1500/2500lb and up to API
- 10000 pressure classes Vent sizes: 1/4"NPT, 1/2"NPT or G
 - ¹/₄" parallel thread with locking pin.



All dimensions according to flange size



YMX14 & YMX15

YMDBBX

Sabre Integral Class Valves

Sabre's range of 'Single/Double Block & Bleed Valves' are designed to overcome the problems of traditional assemblies on primary isolation duties where positive isolation is required.

General Information

The Sabre range of integrally flanged manifolds is designed specifically for applications where modular construction is inappropriate or unnecessary.

The Sabre range of integral double block and bleed manifolds are used for primary isolation duties for liquid or gaseous service. Designed for weight and space saving they are available in a wide range of materials, sizes and head unit combinations to meet all requirements.

Features

- · Single one-piece forged body gives robust unit with fewer potential leak paths
- · Compact design for weight and space savings
- Wide range of performance
- · Wide range of materials including exotics
- · Independently verified pressure/temperature range
- Firesafe design
- NACE compliant
- Choice of flanged, threaded and hub ended process connections
- Designed for maximum operator safety
- · Sabre's unique head unit design gives reduced actuating torque
- 100% tested at 1.5 times working pressure
- All wetted parts traceable to DIN 50049 3.1B certification

Applications

Valve Types

- Instrument loop takeoff points
- Positive isolation
- Double block and bleed
- Chemical injection
- Sampling points
- Blowdown points
- Drains / Vents

- Single block
- Single block and bleed
- Double block
- Double block and bleed

Connection Options

- Flange
- Thread
- Hub
- · Weld ends

Integral Double Block & Bleed Valves

- Double block and bleed integral valve (Ball/Needle/Ball)
- Single piece construction for reduced leak paths
- Flanged inlet with threaded or flanged outlet options
- Other inlet/outlet connections available
- Available in a wide range of forged materials
- Pressure class ANSI 150lb 2500lb and up to API 10000



All dimensions according to connection details



BDBBX

Integral Class Valves Sabre

Sabre's range of 'Single/Double Block & Bleed Valves' are designed to overcome the problems of traditional assemblies on primary isolation duties where positive isolation is required.

Integral Double Block Valves

- Double block integral valve (Ball/Ball)
- Single piece construction for reduced leak paths
- Flanged inlet with NPT threaded or flanged outlet options
- Available in a wide range of forged materials
- Pressure class ANSI 150lb -2500lb and up to API 10000





Integral Single Block & Bleed Valves

BSBBX

DBBX

BDBX

- Single block and bleed integral valve (Ball/Needle)
- Single piece construction for reduced leak paths
- Flanged inlet with NPT threaded or flanged outlet options
- Available in a wide range of forged materials
- Pressure class ANSI 150lb -2500lb and up to API 10000





Integral Double Block & Bleed Valves

- Double block and bleed integral valve (Needle/Needle/Needle)
- Flanged inlet / threaded outlet connection with choice of flange / thread sizes
- Single piece construction for reduced leak paths
- Flanged inlet with 1/2" NPT threaded outlet
- Also available with primary isolation valve piping class OS&Y construction





Sabre Air Distribution Manifolds

The Sabre range of Distribition Manifolds can be supplied with any combination of ball and needle valves.

Air Distribution Manifolds

Sabre air distribution manifolds are specially designed for gas and liquid distribution applications where multiple take-offs are required.

Manufactured from a range of materials to suit the application process, they are capable of accommodating a variety of isolation valves, including needle and ball valves.

Distribution manifolds can be wall or pipe mounted and can be supplied complete with fixing brackets to suit the preferred mounting method.

Manifold designs are available to operate up to 10000 p.s.i.g.

Ball Valve Type

Application

 To carry and distribute gases and liquid processes from a wall or pipe mounting.

Description

- The body is manufactured from solid or extruded section in stainless steel and carbon steel and is suitable for a variety of outlet take-off valves.
- Valves are fitted on each outlet with a drain valve as standard. The numbers of outlets can vary to meet requirements. A variety of valve configurations are available
 please specify when ordering.
- Brackets are supplied suitable for wall mounting or for adaptation for pipe mounting.
- Maximum pressure rating: 10000 p.s.i.g.



Needle Valve Type



Integral Needle Valve Type

ADMX

Accessories Sabre

The Sabre range of accessories is complementary to the instrument valves and manifolds to provide increased variety and adaptability. Accessories include gauge adapters and syphons, check valves, bleeder valves, anti-tamper handles, soft grip handwheels and locking devices.

Check Valve

- To protect instrumentation against damage due to sudden changes of back pressure on high pressure instrument lines.
- A two-piece body incorporating a spring-loaded, in-line poppet.
 Available in 2mm or 7mm orifice sizes with two female parts or
- Available in 3mm or 7mm orifice sizes with two female ports or male/female ports and a variety of thread styles and material options.



Gauge Adaptor & Gauge Syphon

Gauge Adaptor

- To allow positioning of pressure gauges in any direction through 360°.
- Available in a variety of thread sizes and types.

Gauge Syphon

- To protect instrumentation against heat damage due to hot vapours by imposing a condensate trap and by dampening pressure surges.
- Designed in combination with the gauge adaptor to provide both instrument heat protection and 360° gauge positioning.
- Available in a variety of thread sizes and types.



Bleed Plugs & Pressure Blanking Plugs

- BPBX Bleed Plugs allow for the controlled release of process liquid or gas from instrument valve vent ports and incorporate a captive bleed screw for additional control and safety.
- BPX Blanking Plugs enable vent ports to be blocked off to prevent process escaping.
- Available as standard in 1/4", 1/2" and 3/4" NPT, BSP and BSPT sizes in carbon steel, stainless steel and other exotic alloys as required.



Kidney Flanges

- To provide mechanical break away point for manifolds with flanged process faces.
- Provides interface with process pipework with either threaded, butt weld or socket weld connections.
- Available in a variety of thread styles, NB pipe sizes and material options.
- Bolted via flange face of manifold.



GAX & GASX

BPBX & BPX

Sabre Accessories

Anti-tamper Facility

To prevent unauthorised operation of valves the Sabre anti-tamper head unit can be fitted instead of standard needle valves. These anti-tamper units can be supplied with or without a removable operating handle.



Mounting Brackets

Mounting Brackets are available for all valves and manifolds in the Sabre range to suit all applications.



Handwheel

Needle valves can be supplied with a soft-feel moulded hand wheel instead of a standard T-bar handle where appropriate.



Locking Facility

For applications requiring positive lock-off, Sabre valves can be supplied complete with an integral bracket to accommodate a padlock for extra security.



Locking Brackets

To prevent removal of the head unit, new or existing valves can easily be fitted with a secure locking bracket.

Weld Ends

Butt Weld (BW), Socket Weld (SW) and Plain weld Ends (PE) are available on valves with extended inlet connections. For any other non-standard connection types please refer to our Technical Sales team.

Valve Head Types Sabre

Needle Valve

Features

- Operating pressure up to 10,000 p.s.i.g
- Operating temperature from -48°C to 500°C
- Austenitic stainless steel one piece handle
- Effective thread seal (integral with gland follower)
- Unique NIFLOR coated stem threads
- Head unit service label
- · Packing bush to suit operating conditions
- Bonnet locking pin
- Metal to metal body to bonnet seal (DIN 3852)
- All wetted parts traceable
- Hardened stem for positive shut-off
- 100% Pressure tested



Needle Valve - RV model

Features

- Operating pressure up to 6,000 psi
- Operating temperature from -10°C to +200°C; lower temperature options available
- · Austenitic stainless steel one piece handle
- · Lubricated actuating stem threads
- Bonnet locking pin
- Viton stem seal
- · Metal to metal body to bonnet seal (DIN 3852)
- · All wetted parts traceable
- Rotating ball for positive shut-off
- 100% pressure tested



Outside Screw & Yoke Valve

Features

- Operating pressure up to 10,000 psi
- Operating temperature from 48°C to +500°C
- · Austenitic stainless steel one piece handle
- · Effective thread seal (integral with follower flange)
- Unique NIFLOR coated stem threads
- Head unit service label
- · Packing bush to suit operating conditions
- Bolted bonnet construction
- All wetted parts traceable
- · Hardened stem for positive shut-off
- 100% pressure tested

Ball Valve

Features

- Quarter turn positive shut-off
- 316 stainless steel handle and stop pin
- Blow-out proof one-piece stem
- · Vented ball for cavity relief
- Fully supported seats
- End cap threads protected from process
- Vibration proof handle lock nut
- Fire-safe design
- Anti-static design
- Operating pressure up to 10,000 p.s.i.g.
- Operating temperature from -48°C to +200°C
- Threaded end caps pinned to prevent accidental removal
- 100% pressure tested









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Certificate No. EMS 54826 Ce ISO 14001 Environmental Management

Certificate No. OHSAS 94148 OHSAS 18001 Occupational Health & Safety Management

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