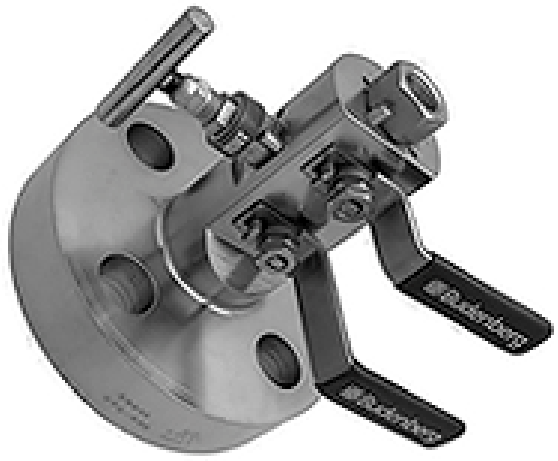
PRIMARY ISOLATION VALVES
SINGLE FORGED BODY

Budenberg

The model 98S comprises of a full range of Single or Double Block & Bleed Valves that provide primary isolation when directly mounted onto process pipework or vessels. The 98S provides an industry standard flanged inlet connection and a screwed vent and outlet connection to suit any instrumentation or take off requirement.

The type 98S is available in a multitude of configurations including Single Block, Double Block or Double Block and Bleed incorporating Budenberg Heavy Duty Needle Valves, OS&Y Isolation Valves or fully floating Ball Valve Assemblies as detailed in additional Datasheets

In addition, the 98 series offers a virtual limitless array of options and materials that make it the perfect choice for your primary isolation requirements. All units are wholly designed and manufactured by Budenberg Ltd and can therefore be supplied with a full spectrum of certification, testing and documentation to meet any project requirement



Construction
Integrally forged one piece body to give superior grain flow around the flange / body area providing exceptional strengt

Configurations

Single Block	Single Block & Bleed
Double Block	Double Block & Bleed

* Optional Check Valves can be fitted into the inlet or outlet
* Optional Quills can be fitted into the inlet for Injection o sampling applications

Inlet
Type 98S units can be manufactured with any flange type including:
* ANSI B16.5 Flanges from 1/2" to 4" in ratings from 150 to 2500 lbs in RF, FF, SRF and RTJ
* API Flanges up to 2.1/16", 3000, 5000 & 10,000 lbs
* Hub End connections including Techlok, Norsok, Graylok etc

Outlet
1/2" to 2" screwed outlets to ANSI / ASME B1.20.1
Socket Weld and Butt Weld outlets are available but may be extended to protect internal components within the valve heac assembly. All outlet connections are secured to prevent accidental dis-assembly

Vent
Standard Vent connection is 1/2" NPT f screwed connection but this can be changed to suit the customer requirement

Bore Sizes
The through bore of the unit is dependant upon the type of valve selected for the Primary and Secondary Isolation Valves. The vent valve is offset from the main bore and therefore can be of a different style and bore.
Ball Valves - 10 mm, 14 mm and 20 mm

Standard Features

Ball Valve Assemblies
Fully Floating Ball Valve Assemblies with cavity relief through the seats.

Needle & OS&Y Valve Assemblies
Both Heavy Duty Needle & OS&Y Valve Head Assemblies both incorporate a full range of features including:

* Anti static , anti blow-out stems
* Self centring, non-rotating stem tips provide a true metal tc metal valve seat whereby the material of the stem tip is one grade harder than the body thus resisting over tightening, preventing wear and guaranteeing a 100% bubble tight seat closure, first time, every time

No Threads in the process stream
All Ball, Needle & OS&Y valve assemblies incorporate a 'soft parent metal sealing rings that are located directly below the head and connection adaptors to ensure that no threads are directly in the process stream

Stem Packing
Fully adjustable, dynamically responsive multi ring gland sandwich', in either PTFE or Graphoil, resist all operating pressures and processes. Budenberg offer 100% gland integrity for the lifetime of every valve

Other Features
* Hydro static and or Gas Pressure Testing to BS 6755 Pt 1
* Fire safe to BS 6755 Pt 2
* Material thickness as defined in ANSI / ASME B16.34
* Flange Dimensions as defined in ANSI / ASME B16.5
* Standard Material Certification to EN 10204 3.1b
* Can be manufactured in a full range of standard and special materials to suit the application

How to specify Type 98S DBB Valves.

The part number is compiled from a series of generic and alphanumeric codes that define the base unit and options. The structure of the part number is compatible with other range of Budenberg Valves and follow the definition of the valve by defining the Primary Isolation Valve, Vent Valve and the Secondary Isolation Valve in sequence thereafter the material and options are then defined.

Typical definition:

DBB Valve, flange process inlet, screwed outlet, needle valve vent, 14mm bore primary, and secondary isolation valves, 3/4" NB 300 Raised Face Flange, 1/2" NPT outlet and vent. Body construction ASTM A182 F51 Duplex, Firesafe

98S	Bc	12	-300	RF	N	8	F	Bc	8	F		D	/	FS

Valve Type

Bb = Ball Valve, 10mm Bore
Bc = Ball Valve, 14mm Bore
Bd = Ball Valve, 20mm Bore
N = Needle Valve
O = OS&Y Needle Head

Rating

150 = 150 lbs
300 = 300 lbs
600 = 600 lbs
900 = 900 lbs
1500 = 1500 lbs
2500 = 2500 lbs
3K = 3,000 lbs
5K = 5,000 lbs
10K = 10,000 lbs

Size

4 = 1/4"
6 = 3/8"
8 = 1/2"
12 = 3/4"
16 = 1"
24 = 1.5"
32 = 2"
48 = 3"
64 = 4"

Connection Type

RF = Raised Face
SRF = Smooth Raised Face
RTJ = Ring Type joint
FF = Flat Face
TCK = Techlok Hub
GRL = Graylok Hub
NL = Norsok Hub
F = Female Screwed Conn
M = Male Screwed Conn
SW = Socket Weld Conn
BW = Butt Weld Conn

Material

S = 316 Stainless Steel
LF2 = Low Temp Carbon St
D = F51 Duplex
SD = F55 Super Duplex
6Mo = F44
M = Monel
H = Hastelloy
T = Titanium
I6 = Inconel 625
I8 = Inconel 825

Option

FS = Fire safe
HL = Handle Locking
AT = Anti Tamper Vent
ATL = Anti Tamper Lockable
BP = Blank Plug fitted
CVP = Captive Vent Plug
IQ = Injection quill
SQ = Sample quill
CHK = Check Valve fitted
GG = Graphoil stem packing
2xO = 2 x Outlet connections

Notes

1) The above is merely representative of standard configurations and options. For other options, configurations or materials contact our sales department
2) Bore sizes relate to the primary and secondary isolation valves only and not the vent valve.
3) Socket and Butt weld connections may be extended to protect valve internals that may be subject to excessive heat during the welding process
4) Valves may be subject to a wide range of protective finishes and painting processes as defined by the project. Please contact our sales department to discuss.

Specifications and dimensions in this leaflet, are subject to change without prior notice.

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