

# Oil & Gas Wellhead Gauge/Bleed Valve:

## API 6A Single Block Gauge Valve with Optional Bleed Valve

Pressures to 30,000 psi (2070 bar)

### Principle of Operation:

Parker Autoclave Engineers Wellhead Gauge valve was designed using the API Type III connection (9/16" HP) and materials suitable for use in NACE (SOG) defined corrosive applications. The 9/16" HP connection - designed for non-NACE 30,000 psi application, when used with Annealed 316 SS instead of our standard cold worked 316 SS, is suitable to 20,000 psi MAWP. Standard Material Medium Pressure connections hold MAWP to 20,000 psi.

The 30GV is a single block valve with one inlet and 3 shared outlet connections. A separate Bleed Valve (20BV or 30BV) optioned with the same 9/16" HP Male connection as explained above, can be used in any of these ports to provide the bleed function if required. The other ports can be used with Pressure Gauge (PAE H-Style) and/or Pressure or Temperature Transmitter.

Bleed/Vent Valve can also be used to evacuate trapped air from pressure systems up to 30,000 psi (2070 bar)

### Wellhead Gauge Features:

- One inlet, three outlet of same size and type
- Metal-to-metal bubble tight shut-off
- PTFE packing below stem threads provides dependable sealing
- UNS S31600 cold worked 316 SS as standard (optional annealed materials available)

### Bleed Valve Features:

- One piece hex body construction allows easy installation
- Vent port tapped 1/8" NPT for plumbing to safe area
- Tee handle for easy operation
- Positive blow out prevention on stem
- "Adapter Male" \* One Piece Male Medium or High Pressure connection, sized as required
- \*Adapter Male connection is made to include the matching gland thread as well as the collar spacing and the typical tubing cone tip to form a one-piece connection.

**Warning:** Vent Outlet position is not controllable once torqued or damage will occur.



GV Series Wellhead Gauge



BV Series Bleed/Vent Valve

Series	Tube Outside Diameter Size (inches)	Connection Type	Orifice Size Inches (mm)	Rated C <sub>v</sub> <sup>*</sup>	Cold Worked 316 SS Pressure Rating psi (bar)	Annealed (NACE) 316 SS Pressure Rating psi (bar)
Wellhead Gauge Valve						
20GV	3/8	SF375CX (3/8" MP)	0.125 (3.18)	0.23	20,000 (1380)	10,000 (690)
20GV	9/16	SF562CX (9/16" MP)	0.125 (3.18)	0.23	20,000 (1380)	10,000 (690)
30GV	9/16	F562C (9/16" HP)	0.125 (3.18)	0.33	30,000 (2070)	20,000 (1380)

Bleed Valve						
20BV	3/8	@ ASM375CX (3/8" MP)	0.093 (2.36)	-	20,000 (1380)	10,000 (690)
20BV	9/16	@ ASM562CX (9/16" MP)	0.093 (2.36)	-	20,000 (1380)	10,000 (690)
30BV	3/8	@ AM375C (3/8" HP)	0.093 (2.36)	-	30,000 (2070)*	20,000 (1380*)
30BV	9/16	@ AM562C (9/16" HP)	0.093 (2.36)	-	30,000 (2070)*	20,000 (1380*)

Notes

\* Rating shown is in closed position.

@ For Explanation of ASM Connection, see Adapter Section in Catalog

BV Valve Rating @ 15,000 psi (1035 bar) in open position.

Glands and collars included in all standard assemblies. Consider using "-WO" suffix when using BV Bleed Valve and/or H-Style Gauge that won't require use.

## Ordering Guide:

Catalog number is created based on customer selection of product parameters, see below for example.

### GV Series Wellhead Gauge Valve

Building a Part Number: <i>Example: 30GV9078-XXX</i>						
Example Part Number:	30GV	9	07	8	-	XXX
Ordering Parameters/Options:	Valve Series	Outside Diameter Tube Size	Stem Type	Body Pattern		Options
Table Reference: (see below)	A	B	C	D		E

A - Valve Series	
20GV	Wellhead Gauge Valve
30GV	Wellhead Gauge Valve

B - Outside Diameter Tube Size	
6	3/8"
9	9/16"

C - Stem Type	
00	One Piece Vee Stem
07	Non-Rotating Vee Stem

D - Body Pattern	
8	4 Ports, 1 Inlet, 3 Outlets

E - Options	
WO	"With Out" Collar and Gland in all connections
K	Antivibration Gland (replaces standard gland)
B	Cryogenic Trim materials required when below 0°F (-18°C) (included in LT)
TG	PTFE Glass (25%) Packing (to 600°F)
*SOG	NACE Material, Hardness Verification/Certificate
***HC	UNS N10276 Hastelloy C276, Wetted Materials (Annealed)
***IN625	UNS N06625 Inconel 625 Wetted Materials (Annealed)
***2507	UNS 32750, 2507 Super Duplex Wetted Materials (Annealed)

Notes:

316 SS valve bodies are cold worked and not suitable for use in NACE (ISO 15156) applications. If required, contact factory for options.

\* SOG suffix also changes CW 316 SS Body material to Annealed 316 SS suitable for NACE service, Pressure reduction of 60% possible

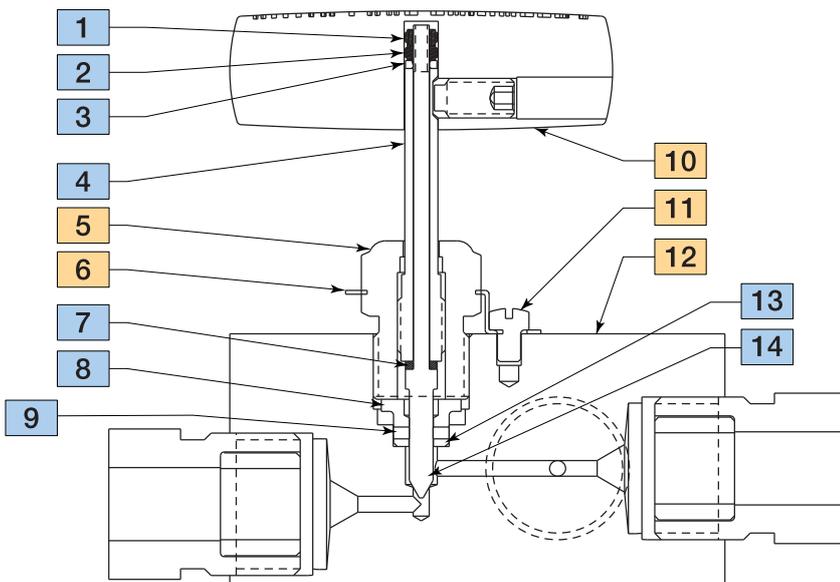
\*\*\* Special Materials often have reduced MAWP ratings, see Technical brochure for assistance and for additional material options

## GV Series Wellhead Gauge Valve Dimensions:

Wellhead Gauge Valve					
		Catalog Number			
Stem Type	Vee Type (only)	20GV6078	20GV9078	30GV9078	
Tube Connection Type		SF375CX (3/8" MP)	SF562CX (9/16" MP)	F562C (9/16" HP)	
Tube Connection Size		3/8 MP	9/16 MP	9/16 HP	
Pressure Rating: psi (bar)		20,000 (1380)	20,000 (1380)	30,000 (2070)	
Dimensions: inches (mm)		<b>A</b>	2.00 (50.80)	2.00 (50.80)	
		<b>B</b>	3.12 (79.25)	3.88 (98.55)	
		<b>C</b>	2.00 (50.80)	2.75 (69.85)	2.75 (69.85)
		<b>D</b>	4.5 (115)	4.5 (115)	4.5 (115)
		<b>E</b>	1.13 (28.58)	1.31 (33.27)	1.31 (33.27)
		<b>F</b>	1.00 (25.40)	1.38 (34.93)	1.38 (34.93)
		<b>G</b>	0.50 (12.70)	0.66 (16.76)	0.66 (16.76)
		<b>H</b>	0.94 (23.83)	0.94 (23.83)	0.94 (23.83)
		<b>J</b>	3.00 (76.20)	3.00 (76.20)	3.00 (76.20)
		<b>K</b>	.25 (6)	.38 (10)	.38 (10)
		<b>L</b>	.25 (6)	.38 (10)	.38 (10)
Mounting Hole Dimensions		<b>M</b>	.28 (7)	.28 (7)	

All dimensions for reference only and subject to change • For prompt service, Parker Autoclave stocks select products. Consult factory.

## Material of Construction:



Item #	Description	Material
1	Hex Nut	300 Series SS
2	Hex Nut	300 Series SS
3	Stem	316 SS
4	Sleeve	304 SS
5	Packing Gland	AMPCO 45
6	Locking Device	302 SS
7	Thrust Washer	17-4PH
8	Packing Washer	AMPCO 45
9	Packing	PTFE
10	Handle	316 SS
11	Screw	300 Series SS
12	Body	316 SS
13	Bottom Washer	316 SS
14	Vee Stem	316 SS

Typical spare parts found in Repair Kits

## Ordering Guide:

Catalog number is created based on customer selection of product parameters, see below for example.

### BV Series Bleed/Vent Valve (order individually)

Building a Part Number: <i>Example: 30BV9002-XXX</i>					
Example Part Number:	<b>30BV</b>	<b>9</b>	<b>00</b>	<b>2</b>	<b>- XXX</b>
Ordering Parameters/Options:	Valve Series	Outside Diameter Tube Size	Stem Type	Body Pattern	Options
Table Reference: (see below)	A	B	C	D	E

A - Valve Series	
20BV	20,000 psi Medium Pressure Bleed Valve
30BV	30,000 psi High Pressure Bleed Valve

B - Outside Diameter Tube Size	
4	1/4" Adapter Male (AM)
6	3/8" Adapter Male (AM375CX)
9	9/16" Adapter Male (AM562CX MP or AM562C HP))

C - Stem Type	
00	One Piece Vee Stem

D - Body Pattern	
2	Angle (bottom inlet)

E - Options	
*SOG	NACE Material, Hardness Verification/Certificate
***HC	UNS N10276 Hastelloy C276, Wetted Materials (Annealed)
***IN625	UNS N06625 Inconel 625 Wetted Materials (Annealed)
***2507	UNS 32750, 2507 Super Duplex Wetted Materials (Annealed)

Notes:  
316 SS valve bodies are cold worked and not suitable for use in NACE (ISO 15156) applications. If required, contact factory for options.

\* SOG suffix also changes CW 316 SS Body material to Annealed 316 SS suitable for NACE service, Pressure reduction of 60% possible

\*\*\* Special Materials often have reduced MAWP ratings, see Technical brochure for assistance and for additional material options

## Bleed Valve Dimensions:

Bleed/Vent Valve					
		Catalog Number			
Stem Type	VEE	20BV4002	20BV6002	20BV9002	30BV9002
Connection Type		SM250CX	SM375CX	SM562CX	M562C
Connection Size		1/4 MP	3/8 MP	9/16 MP	9/16 HP
Pressure Rating: psi (bar)		20,000 (1380)	20,000 (1380)	20,000 (1380)	30,000 (2070)
Dimensions: inches (mm)		A	B	C	D
		3.06 (78)	2.25 (57)	1.12 (28.5)	1.38 (35)
		3.23 (82.04)	2.42 (61.47)	1.12 (28.45)	1.38 (35.05)
		3.68 (93.47)	2.86 (76.64)	1.12 (28.45)	1.38 (35.05)
		3.44 (87.38)	2.61 (66.29)	1.12 (28.45)	1.38 (35.05)
		1.50 (38)	1.50 (38.10)	1.50 (38.10)	1.50 (38.10)

Notes:  
\*Adapter Male connection is made to include the matching gland thread and collar spacing along with typical tubing tip to form one-piece connection. "Warning" Rotation position is not controllable once torqued or damage will occur.  
Bleed Valve max pressure is reduced to 15,000 psi when in OPEN position due to outlet connection

All dimensions for reference only and subject to change • For prompt service, Parker Autoclave stocks select products. Consult factory.