## **Data Sheet**



## Gauge Valve – V02 Series Block and Bleed Manifold

#### **FEATURES**

- Isolates and bleeds process from instrument assembly pressure for instrument maintenance
- 316L Stainless steel construction
- Support mounting brackets available

#### **TYPICAL USES**

- Oil & Gas Industry
  - Upstream: Onshore/offshore production
  - Midstream: Transport, storage and natural gas compression
  - Downstream: Refineries & petrochemical industries
- Chemical Industry
- Power Plants
  - Conventional power plants
  - Flue gas desulfurization plants
- Other Industries
  - Waste incineration plants
  - Seawater desalination plants
  - Steel mills
  - Cement plants





STYLE B (L-SHAPE)

## **SPECIFICATIONS**

Process Connection:	Style A ½ NPT Male
	Style B 1/2 NPT Female

Style C ½ NPT Female

Instrument Connection: ½ NPT Female

Construction: 316 Stainless steel

Max. Pressure Rating 6,092 psi at 100 °F (420 bar at 38 °C)

more details, check chart below

Max. Temperature Rating for:

 PTFE
 450 °F (232 °C)

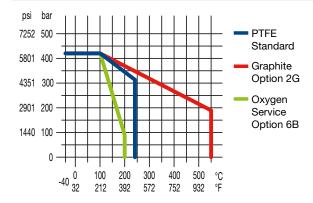
 Graphite
 1022 °F (550 °C)

 Oxygen service
 392 °F (200 °C)

Min. Temperature Rating for:

PTFE -40 °F (-40 °C)

Graphite -40 °F (-40 °C)



### **KEY BENEFITS**

- Available for oxygen service
- Color-coded dust caps prevent dust ingress and identifies handle function
- PTFE packing (other materials available upon request)
- Stem with cold rolled surface, back seat and non-rotating needle tip
- Supplied with wetted parts according to NACE MR0175/MR0103 (CD-5 Certificate)
- Material traceability reports available per EN 10204 3.1

COMPONENTS	MATERIAL
Wetted	
Body	1.4404 (316L SS)
Valve stem	1.4404 (316L SS)
Needle tip	1.4571 (316Ti SS)
Packing	PTFE up to 390 °F (200 °C)
Gland nut	1.4301 (304 SS)
Screw plug	1.4404 (316L SS)
Non-Wetted	
Bonnet	316 SS (1.4401)
T-handle	316 SS (1.4401)

## Data Sheet



# Gauge Valve – V02 Series Block and Bleed Manifold

C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1	ORDERING CODE	Example:	04	V02	2V	Α	SS	50	X2G
04 - ½ NPT Female 50 - ½ NPT Female 50 - ½ NPT Female  Series Code  V02 - Valve	Process Connection								
25 - ½ NPT Female 50 - ½ NPT Female Series Code  V02 - Valve V02 - Valve V2 - 2 Valve Version A - Style A (In-line) A - Style B (L-shape) C - Style C (Y-shape)  Material SS - 316L Stainless steel tags wired to valve TM - 21 Pipe mounting bracket	02 - 1/4 NPT Male (style A only)								
Series Code	04 - 1/2 NPT Male (style A only)		04						
Series Code	25 - 1/4 NPT Female								
V02 - Valve	50 - ½ NPT Female								
Valves       2V         2V - 2 Valve       2V         Version       A         A - Style A (In-line)       A         B - Style B (L-shape)       C         C - Style C (Y-shape)       Material         SS - 316L Stainless steel       SS         PM - Monel® 400       HH - Hastelloy® C-276         Instrument Connection       Instrument Connection         04 - ½ NPT Female       50         50 - ½ NPT Female       50         Options (if choosing an option(s) must include an "X")       X _         C3 - Material traceability report per EN 10204 3.1       CD-5 - Certificate according to NACE for Oiffields MR0175/ISO 15156-2009 and for Refineries MR0103-2010         P7 - Power piping acc. to ASME B31.1       2G - Graphite bonnet for high temperatures       2G         HY - Hydrostatic testing       NH - Stainless steel tags wired to valve       TM - 2" Pipe mounting bracket	Series Code								
2V - 2 Valve	V02 - Valve			V02					
Version         A           A - Style A (In-line)         A           B - Style B (L-shape)         A           C - Style C (Y-shape)         A           Material         SS           SS - 316L Stainless steel         SS           PM - Monel® 400         HH - Hastelloy® C-276           Instrument Connection         Instrument Genetian           04 - ½ NPT Female         50           50 - ½ NPT Female         50           Options (if choosing an option(s) must include an "X")         X_           C3 - Material traceability report per EN 10204 3.1         CD-5 - Certificate according to NACE for Oiffields MR0175/ISO 15156-2009 and for Refineries MR0103-2010           P7 - Power piping acc. to ASME B31.1         2G - Graphite bonnet for high temperatures         2G           HY - Hydrostatic testing         NH - Stainless steel tags wired to valve         TM - 2" Pipe mounting bracket	Valves								
A - Style A (In-line) A B - Style B (L-shape) C - Style C (Y-shape)  Material SS - 316L Stainless steel SS PM - Monel® 400 HH - Hastelloy® C-276 Instrument Connection 04 - ½ NPT Male (style A only) 25 - ¼ NPT Female 50 - ½ NPT Female 50 - ½ NPT Female 50 - ½ Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010 P7 - Power piping acc. to ASME B31.1 2G - Graphite bonnet for high temperatures 2G HY - Hydrostatic testing NH - Stainless steel tags wired to valve TM - 2' Pipe mounting bracket	2V - 2 Valve				2V				
B - Style B (L-shape) C - Style C (Y-shape)  Material SS - 316L Stainless steel SS PM - Monel® 400 HH - Hastelloy® C-276 Instrument Connection 04 - ½ NPT Male (style A only) 25 - ¼ NPT Female 50 - ½ NPT Female	Version								
C - Style C (Y-shape)  Material  SS - 316L Stainless steel SS  PM - Monel® 400  HH - Hastelloy® C-276  Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½	A - Style A (In-line)					Α			
Material  SS - 316L Stainless steel SS  PM - Monel® 400  HH - Hastelloy® C-276  Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½ NPT	B - Style B (L-shape)								
SS - 316L Stainless steel  PM - Monel® 400  HH - Hastelloy® C-276  Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½ NPT Female  50 -	C - Style C (Y-shape)								
PM - Monel® 400  HH - Hastelloy® C-276  Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½ NPT Female  50 Options (if choosing an option(s) must include an "X")  C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  426 - Hy - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	Material								
HH - Hastelloy® C-276  Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½ NPT Female  50 - ½ NPT Female  50 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	SS - 316L Stainless steel						SS		
Instrument Connection  04 - ½ NPT Male (style A only)  25 - ¼ NPT Female  50 - ½ NPT Female  50 Options (if choosing an option(s) must include an "X")  C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  2G HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	PM - Monel® 400								
04 - ½ NPT Male (style A only) 25 - ¼ NPT Female 50 - ½ NPT Female	HH - Hastelloy® C-276								
25 - ¼ NPT Female 50 - ½ NPT Female  X _ C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures 42G - HY - Hydrostatic testing NH - Stainless steel tags wired to valve TM - 2" Pipe mounting bracket	Instrument Connection								
50 - ½ NPT Female  Options (if choosing an option(s) must include an "X")  C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  12G - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	04 - 1/2 NPT Male (style A only)								
Options (if choosing an option(s) must include an "X")  C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  42G  HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	25 - ¼ NPT Female								
C3 - Material traceability report per EN 10204 3.1  CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010  P7 - Power piping acc. to ASME B31.1  2G - Graphite bonnet for high temperatures  429  HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	50 - ½ NPT Female							50	
CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010 P7 - Power piping acc. to ASME B31.1 2G - Graphite bonnet for high temperatures 429 HY - Hydrostatic testing NH - Stainless steel tags wired to valve TM - 2" Pipe mounting bracket	Options (if choosing an option(s) must include an "	X")							X
P7 - Power piping acc. to ASME B31.1 2G - Graphite bonnet for high temperatures 2G HY - Hydrostatic testing NH - Stainless steel tags wired to valve TM - 2" Pipe mounting bracket	C3 - Material traceability report per EN 10204 3.1								
2G - Graphite bonnet for high temperatures  HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	CD-5 - Certificate according to NACE for Oilfields MR	0175/ISO 15156-2009 and	for Refineries MR0	103-2010					
HY - Hydrostatic testing  NH - Stainless steel tags wired to valve  TM - 2" Pipe mounting bracket	P7 - Power piping acc. to ASME B31.1								
NH - Stainless steel tags wired to valve TM - 2" Pipe mounting bracket	2G - Graphite bonnet for high temperatures								2G
TM - 2" Pipe mounting bracket	HY - Hydrostatic testing								
	NH - Stainless steel tags wired to valve								
6B - Cleaned for oxygen service	TM - 2" Pipe mounting bracket								
	6B - Cleaned for oxygen service								

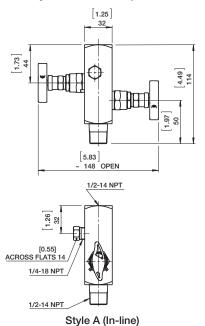
## **Data Sheet**

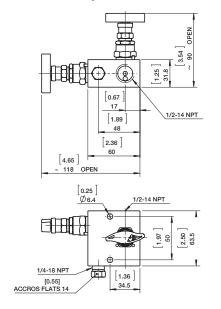


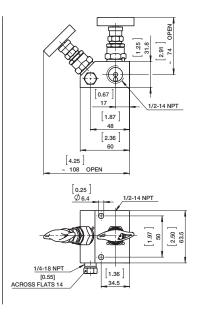
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## DIMENSIONS (DIMENSIONS IN [] ARE DECIMAL INCHES)

Drawings are for reference only, consult Ashcroft for specific dimensional drawings.





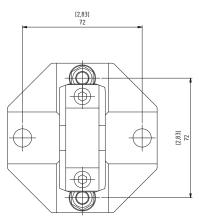


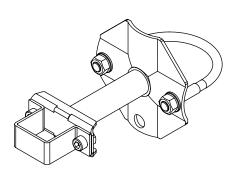
Style B (L-shape)

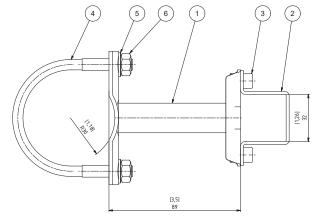
Style C (Y-shape)

## OPTION TM - 2" PIPE MOUNTING BRACKET (DIMENSIONS IN [] ARE DECIMAL INCHES)

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Pos.	Description	Material
1	Mounting bracket	316Ti SS
2	Bracket	316Ti SS
3	Socket head cap screw ISO 4762 -M6x10	316 SS
4	U-bolt M8 for 2" pipe	316 SS
5	Washer 8,4 DIN 128-B	316 SS
6	Hexagon nut DIN EN 24032-M8	A4