Anderson Greenwood Instrumentation Primary Isolation Valves

An integral one-piece double block and bleed Root valve assembly for primary isolation of pressure take-offs, with either threaded or welded inlet connection

General Application

Suitable for double block and bleed applications on pressure and flow measurement services where the valve is either screwed or welded directly into the process pipe or vessel without the need for a flanged connection. Instruments may be mounted directly to the valve outlet or remotely with gauge lines/impulse pipe work.

TECHNICAL DATA

Materials

CS, 316 SS, Duplex

Seats:

Metal

Connections

Inlet:

Threaded or welded 1/2" to 2"

Outlet:

1/2" NPT

Pressure (max):

10000 psig (680 barg)

Temperature:

-313°F to 1000°F (-192°C to 538°C)



Features

- One-piece body combines a compact design with strength and reduced potential leak path compared to conventional designs.
- Threaded or welded type connections.
- Heavy duty needle type globe valves ensuring bubble-tight shut-off on isolation and venting services.
- Firesafe design to meet API 607, BS6755 Part 2 (optional).



HD29 SERIES

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Product Overview

The HD29 features two independently operable 0.2" (5 mm) bore 'HD' globe style needle valves for isolation service with an intermediate 'HD' globe style needle valve for venting service.

Standard pressure testing to BS EN 12266-1.

Standard material traceability to EN 10204 3.1 (body only).

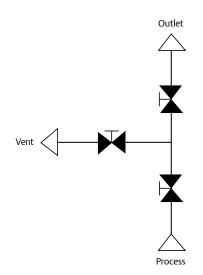
Material thickness to ANSI B16.34.

Valve Body - Material Codes

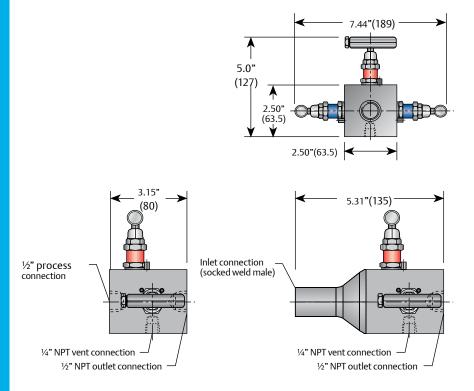
Description	c	S	D
Valve body	220M07	316 S11	UNS-31803

NOTE

1. Carbon steel valve bodies are zinc plated and passivated as standard.



Dimensions, inches (mm)



NOTE

1. Valve weight 5.9 lb (2.7 kg).

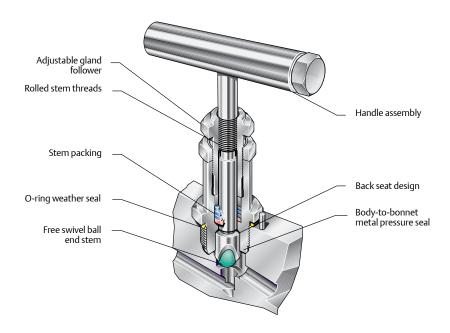


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'HD' Needle-Type Globe Valve

The HD needle-type glove valve has a rotating stem with a free-swivel ball-end seat for repetitive bubble-tight shut-off and rolled threads for low operating torque, located above the spindle packing and isolated from the process. The stem seal is either graphite or PTFE rings and a backseat design provides secondary stem sealing and prevents stem blowout. A body-to-bonnet metal pressure seal below the threads prevents corrosion and ensures the bonnet threads are in loaded compression for additional strength and an O-ring weather seal protects bonnet retention threads from harsh environments. An adjustable gland follower allows easy access to adjust the packing gland and the valve features a T-bar handle with locking bolt to secure firmly on the stem.

Pressure rating: up to 10000 psig (680 barg)
Temperature rating: -313°F to 1000°F (-192°C to 538°C)



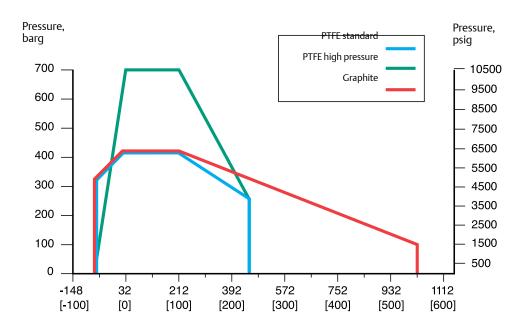


HD29 SERIES

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Pressure and Temperature Ratings

'HD' Needle Type Globe Valve



Temperature, °F (°C)

NOTE

Min temperature for 316SS HD bonnet (-313°F (-192°C) @ 2500 psi (172 bar)

'HD' Needle Type Globe Valve Components - Trim Codes

Item	Description	S	D		
1	Gland follower	Austenitic SS	A276-31803		
2	Stem	A479-316	A479-31803		
3	Locknut	Austenitic SS	Austenitic SS		
4	Stem packing	PTFE or graphite	PTFE or graphite		
5	O-ring weather seal	Buna-N Nitrile	Buna-N Nitrile		
6	Ball (stem tip)	316 SS	Ceramic		
7	Bonnet locking pin	Austenitic SS	Austenitic SS		
8	Handle assembly	Austenitic SS	Austenitic SS		

Standard Trim Combinations

Body	Trim
C	S
S	S
D	D

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Selection Guide

HD29	V	C	S	-047B

BASIC SERIES		NEEDLE VALVE PACKING	VALVE BODY		TRIM MATERIAL		INLET CONNECTION					
Globe needle valve type												
HD29	threaded x threaded double block and bleed	V PTFE	c	CS 220 M07	S	316 SS	04	1/2" NPS	2	Male	В	NPT
HD291	threaded x threaded double block and bleed - 10000 psi (PTFE packing only)	H Graphite	s	SS 31611	D	Duplex	06	3/4" NPS	7	Female	c	Butt weld (XXS)
			D	Duplex UNS S31803			08	1" NPS			D	Socket weld (XXS)
					co	andard trim mbinations and S body = S trim, body = duplex trim						

-047B PV

OUTLET CONNECTION					l	OPTIONS			
04 06 08	1/2" NPS 3/4" NPS 1" NPS	2 7	Male Female	B C D	NPT Butt weld (XXS) Socket weld (XXS)	SG PO SS	NACE MR0175 latest revision Plugged outlet Full 316 SS trim Plugged vent		
						СВ	Ceramic ball tip		
						AT	Anti-tamper bonnet		
						ST	Stellite ball tip		
						LT	Low Temperature for integral seat 316SS -313°F (-192°C) @ 2500 psi (172 bar)		