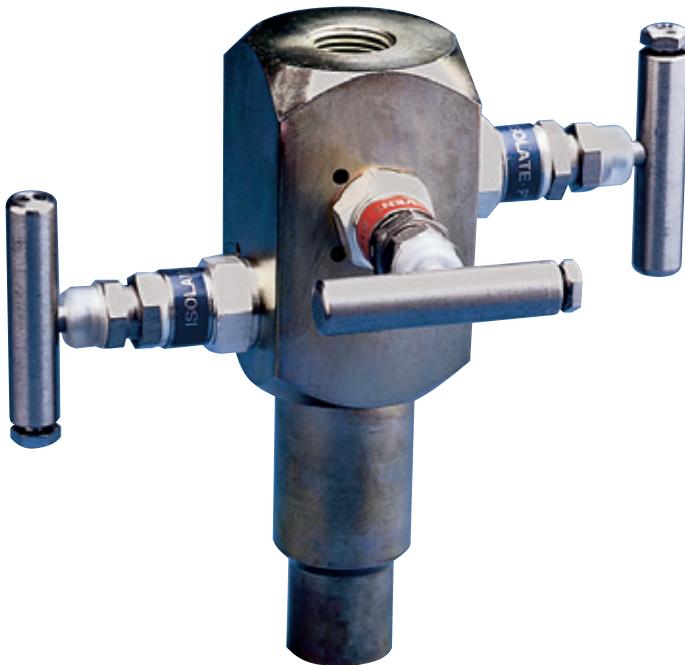


ANDERSON GREENWOOD HD29 PRIMARY ISOLATION VALVE

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



FEATURES

- One-piece forged body combines a compact design with strength and reduced potential leak paths 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).

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, SS, Duplex
Seats:	Metal
Connections	
Inlet:	Threaded or welded ½" to 2"
Outlet:	½" NPT
Pressure (max.):	10000 psig (680 barg)
Temperature (max.):	1000°F (538°C)

ANDERSON GREENWOOD HD29 PRIMARY ISOLATION VALVE

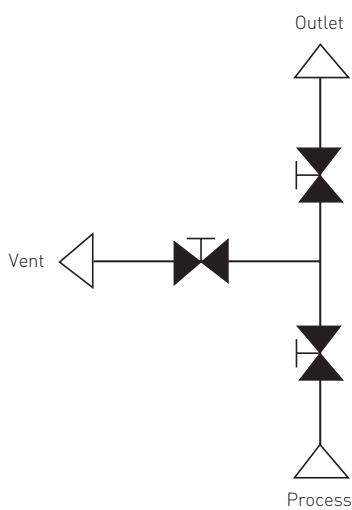
PRODUCT OVERVIEW

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.



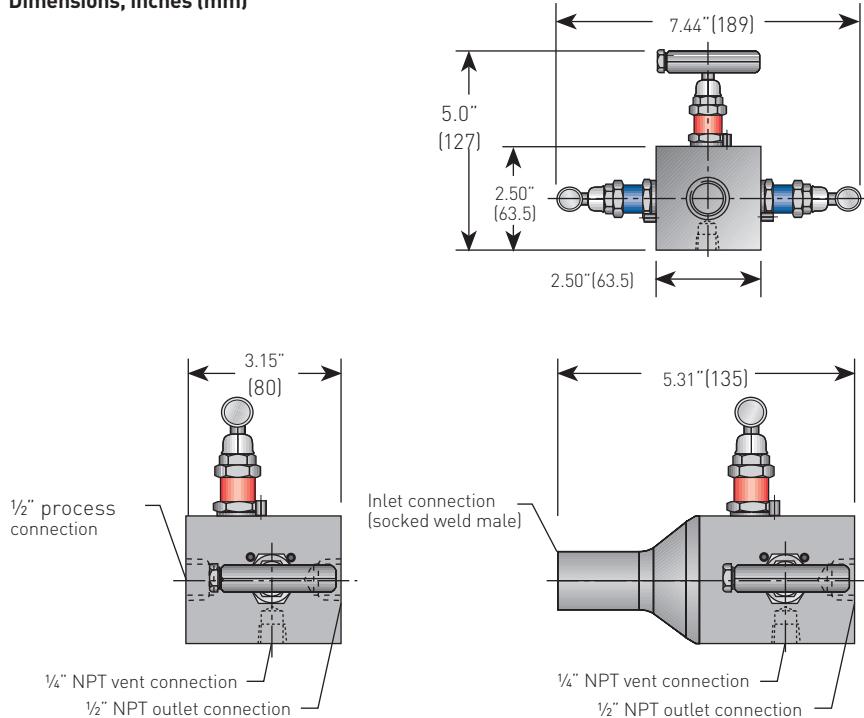
VALVE BODY - MATERIAL CODES

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

NOTE

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

Dimensions, inches (mm)



NOTE

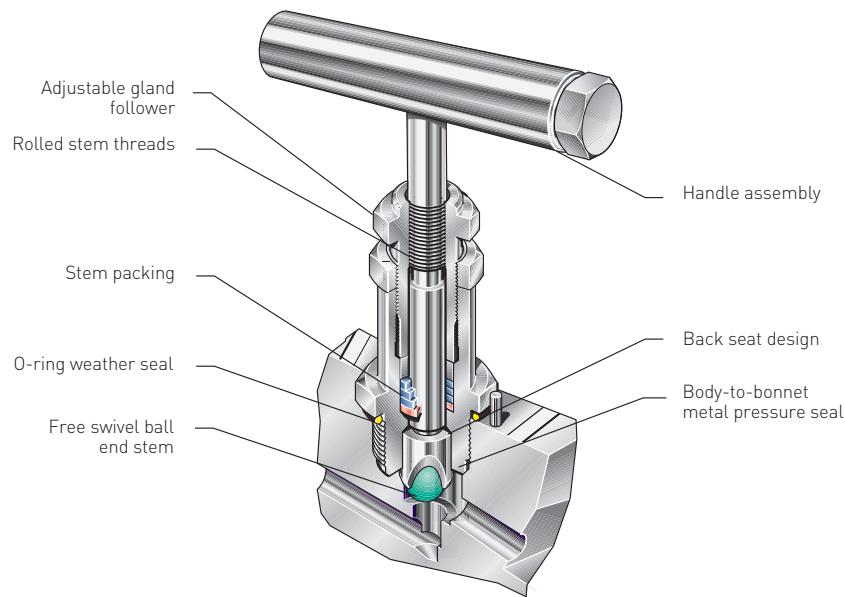
1. Valve weight 5.9 lb (2.7 kg).

ANDERSON GREENWOOD HD29 PRIMARY ISOLATION VALVE

'HD' NEEDLE-TYPE GLOBE VALVE

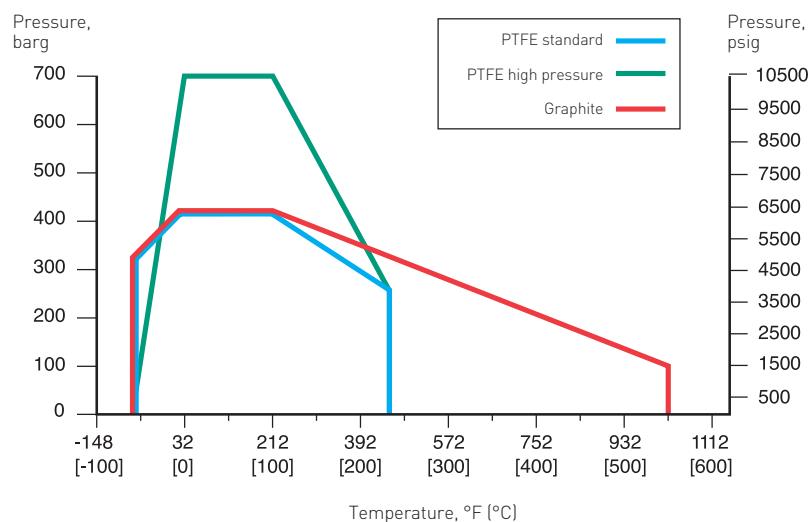
The HD needle-type globe valve has a rotating stem with a free-swivel ball-end seat for repetitive bubble-tight shut-off and rolled threads for low operating torque, located above the spindle packing and isolated from the process. The stem seal is either graphite or PTFE rings and a backseat design provides 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: -71°F to 1000°F (-57°C to +538°C)



PRESSURE AND TEMPERATURE RATINGS

'HD' NEEDLE TYPE GLOBE VALVE



'HD' NEEDLE TYPE GLOBE VALVE COMPONENTS - TRIM CODES

Item	Description	S	D
1	Gland follower	Austenitic SS	A276-31803
2	Stem	A479-316	A47931803
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

ANDERSON GREENWOOD HD29 PRIMARY ISOLATION VALVE

SELECTION GUIDE

Example:	HD29	V	C	S	-047B	-047B	PV
Globe/needle valve type							
HD29	threaded x threaded double block and bleed						
HD291	threaded x threaded double block and bleed - 10000 psi						
Needle valve packing							
V	PTFE						
H	Graphite						
Body material							
C	CS 220 M07						
S	SS 31611						
D	Duplex UNS S31803						
Trim material							
S	SS 316	Standard trim combinations					
D	Duplex	C and S body = S trim, D body = duplex trim					
Inlet connection							
04	½ NPS	2	Male	B	NPT		
06	¾ NPS	7	Female	C	Butt weld (XXS)		
08	1 NPS			D	Socket weld (XXS)		
Outlet connection							
04	½ NPS	2	Male	B	NPT		
06	¾ NPS	7	Female	C	Butt weld (XXS)		
08	1 NPS			D	Socket weld (XXS)		
Options							
SG	NACE MR0175 latest revision						
PO	Plugged outlet						
SS	Full 316 SS trim						
PV	Plugged vent						
CB	Ceramic ball tip						
AT	Anti-tamper bonnet						
ST	Stellite ball tip						