Monoweld Valves



Hex Monoweld Valves

Built Hex tough for a lifetime of use. See how inside . . .

HEXVALVE

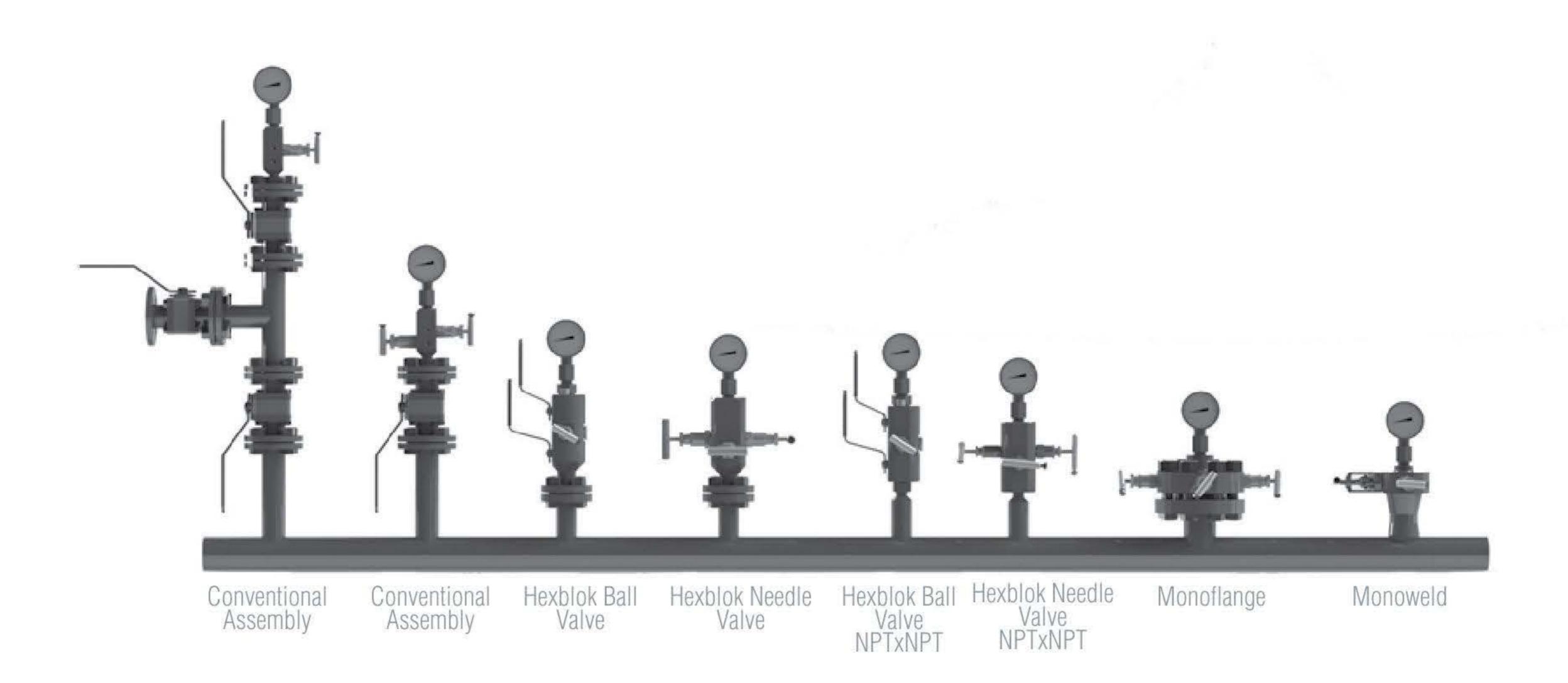
A Division of Richards Industries 3170 Wasson Road Cincinnati, OH 45209

toll free. 800.543.7311 local. 513.533.5600 fax. 513.871.0105

www.hexvalve.com

Hexblok Block & Bleed Valves

The Hex Valve design of pressure instrument take-off points along with sampling, injection, and drainage applications simplifies these designs by making them more compact, rigid, lighter, safer, and lower cost than the conventional piping methods.



APPLICATIONS

- Pressure instrument take off points
- Sampling Systems (Our valve has an integral pipe probe or sampling probe)
- Chemical Injection Systems (valve has pipe probe/quil along with intregral check valve)
- Hydraulic power units
- High pressure fire safe valves
- Drains for tanks and pipes where space is limited

FEATURES & BENEFITS

- Overall length reduced by ± 70%
- Overall weight reduced by ± 80%
- Reduced labor cost
- Reduced leak points
- Brings pressure point closer to pressure measurement

Hex MonoWeld: Designed and manufactured by the company that produced the Oil and Gas industries first primary gauge and orifice valves. Hex is proud to manufacture the rugged and dependable MonoWeld. See for yourself, Hex builds tough valves.

Applications

Used on Upstream Offshore/Onshore Gas and Oil production and initial processing installations.

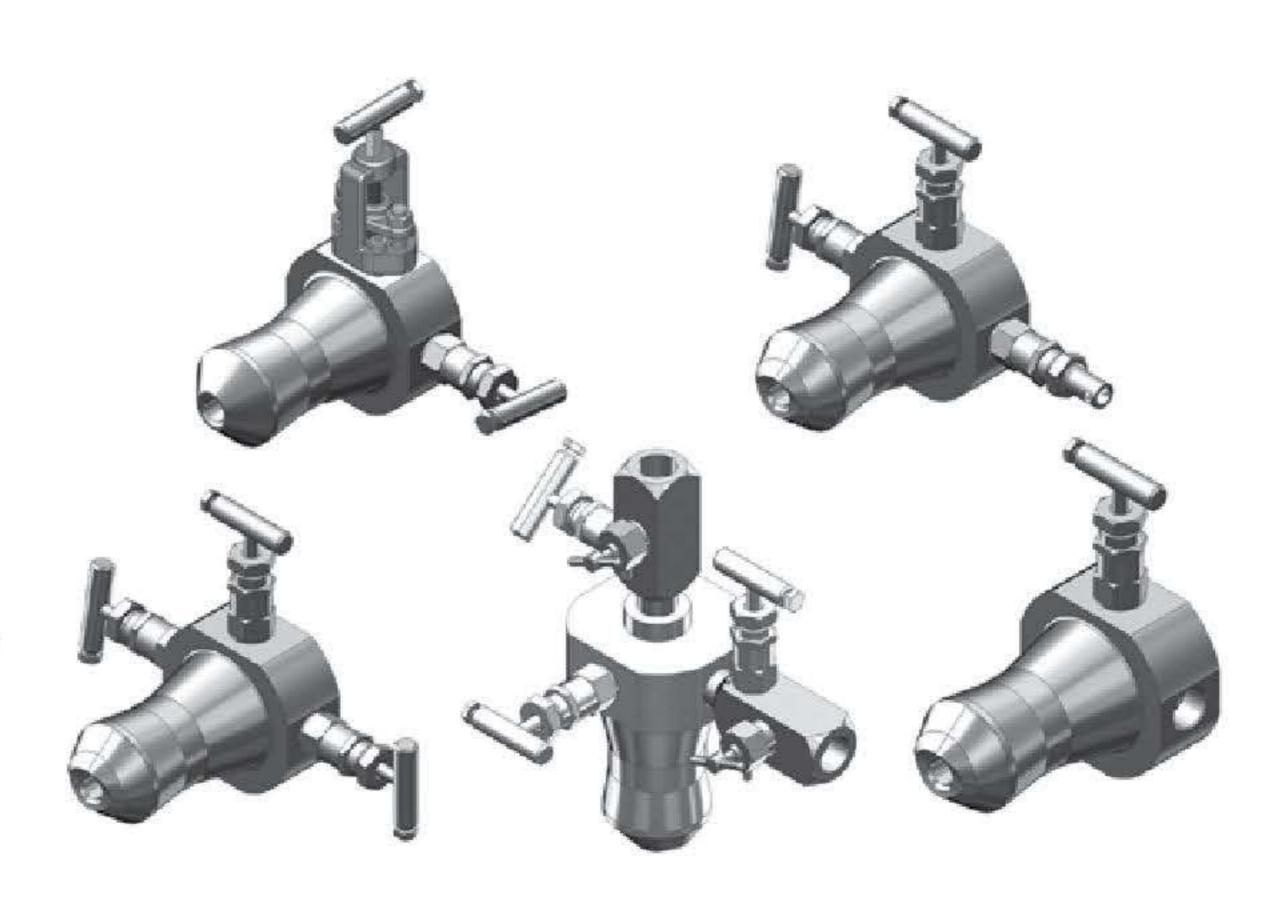
Typically used on single or dual gauge pressure or analyzer installations to minimize the size and weight of the pipe-valve assemblies used for primary and/or secondary isolation, vent and calibration.

Also used in downstream Oil and Gas Refining and Petrochemical production on welded, or flanged pipe processes, primarily on gas applications or light end liquids.

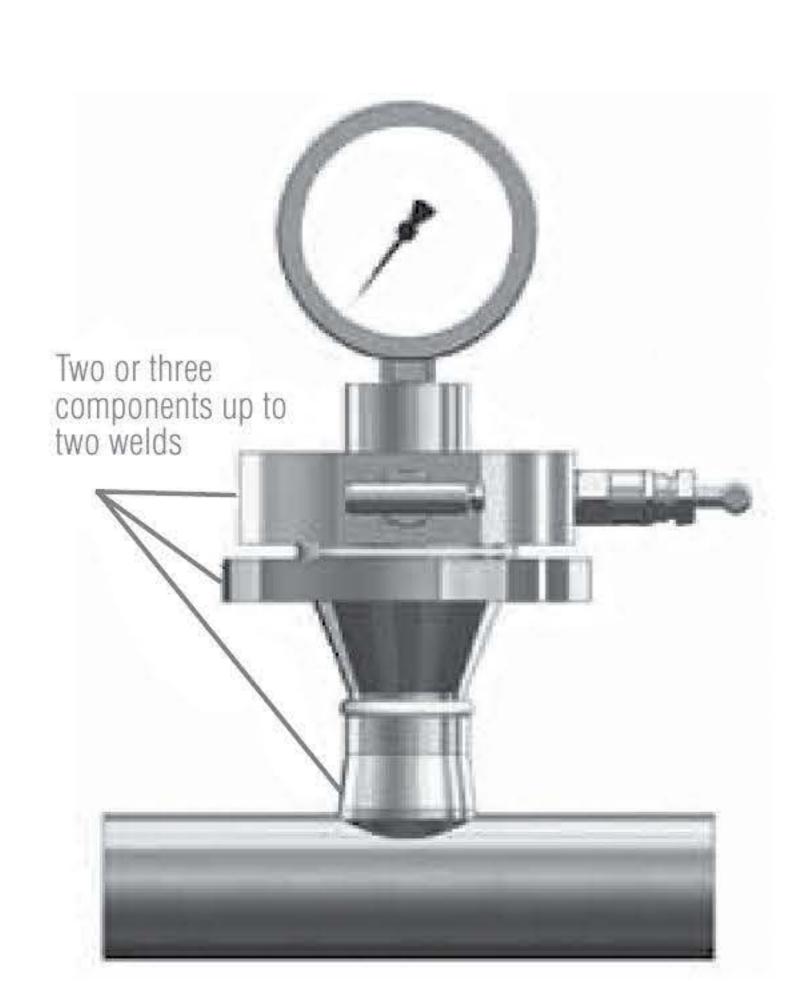
Features and Benefits

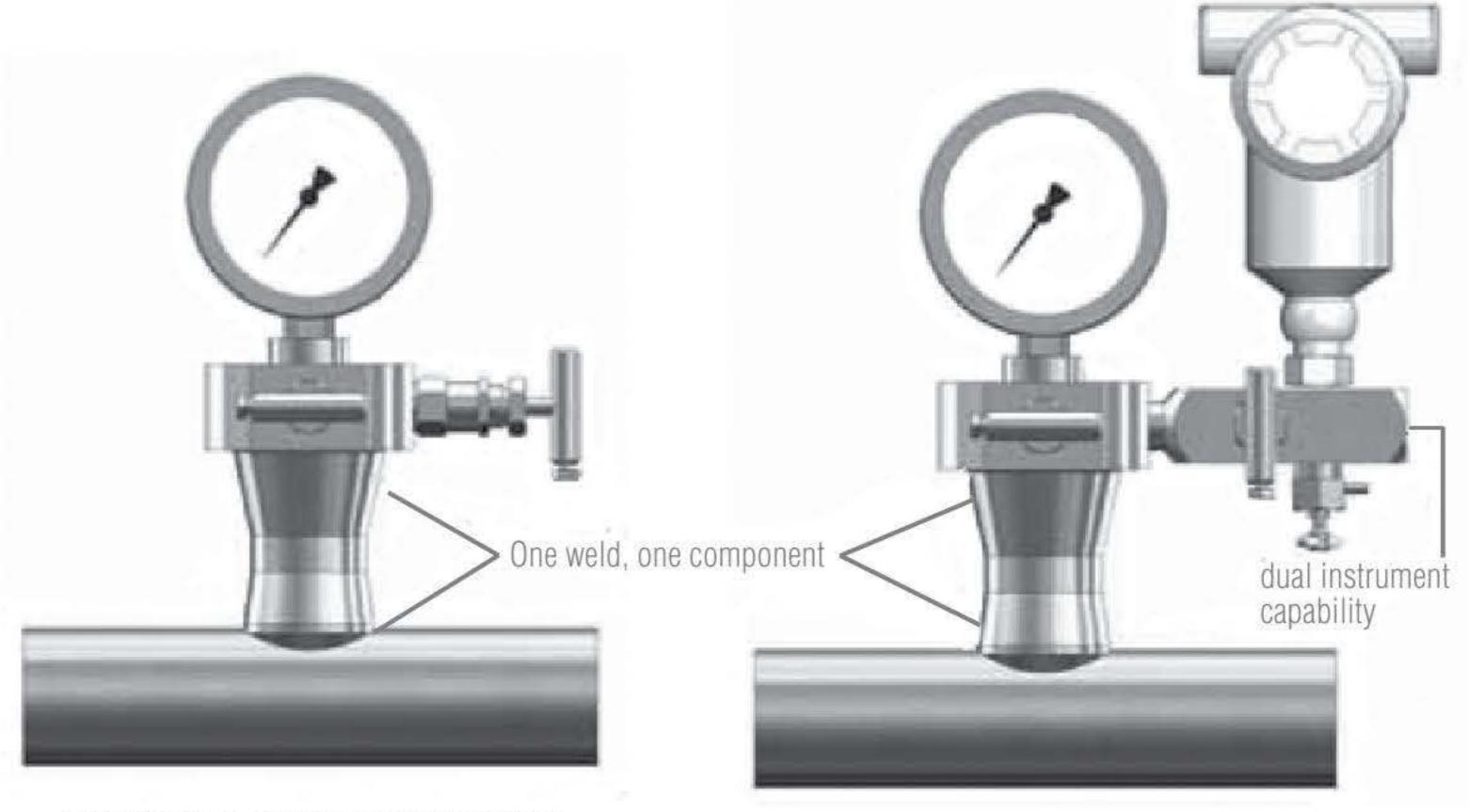
- Integral Weldolet® means one weld instead of two, per gauge pressure or analyzer takeoff.
 - Significantly reduces total project installation time, reducing Capital costs
 - Reduces total installation height and weight
 - Reduces weld corrosion probability
 - Weldolet[™] style saddle inlet machined to match installation pipe size and schedule per MSS SP-97
 - Reduces total potential leak paths, minimizing total probable emissions
- API 607 5th Edition (fire test)
- Large variety of standard and optional forged or bar materials and outlet options, means you can select the style and material you need immediately from catalog, instead of having to contact the factory
- Hex was the first in the industry to utilize Non-Rotating Stem Tip (NRT) technology. When the stem tip contacts the seat, it stops rotating, preventing the cross scoring and eventual leaks that can occur with ball type stems

Quick Spec				
	Product Scope			
Working Pressure	In accordance with ASME B16.5 for class 150 to 2500			
Working Temperatures	450°F (232°C) for Teflon packing, 1000°F (528°C) for Graphite packing			
	Approvals			
API 607 5th Edition (fire test certified)				
ASME VIII (pressure boundaries)				
PED				
ASME B16.5 (flange dimensions)				
EN 10204.3.1 (material traceability)				



- Robust bonnet and stem design means higher probability of longer life, and less break risk than competitors
- 4 rings Teflon Chevron style packing, or multiring set of grafoil surrounded by braided graphite standard. Verified to exceed US EPA 40 CFR 60 emission standards by more than 5 times. Less probability of leaks means less risk
- Special built-to-order design inquiries welcome





TRADITIONAL

MONOWELD SINGLE INSTRUMENT

MONOWELD DOUBLE INSTRUMENT

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Used on Upstream Offshore/Onshore Gas and Oil production and initial processing installations. Typically used on single or dual gauge pressure or analyzer installations to minimize the size and weight of the pipe-valve assemblies used for primary and/or secondary isolation, vent and calibration. Also used in downstream Oil and Gas Refining and Petrochemical production on welded, or flanged pipe processes, primarily on gas applications or light end liquids.



Specifications

WORKING PRESSURE

In accordance to ASME B16.5 for class 150 to 2500

CERTIFICATIONS

API 607 5th Edition (fire test certified)
ASME VIII (pressure boundaries)
PED
EN 10204.3.1 (material traceability)
Norsok M650 Rev. 3 approved materials

WORKING TEMPERATURES

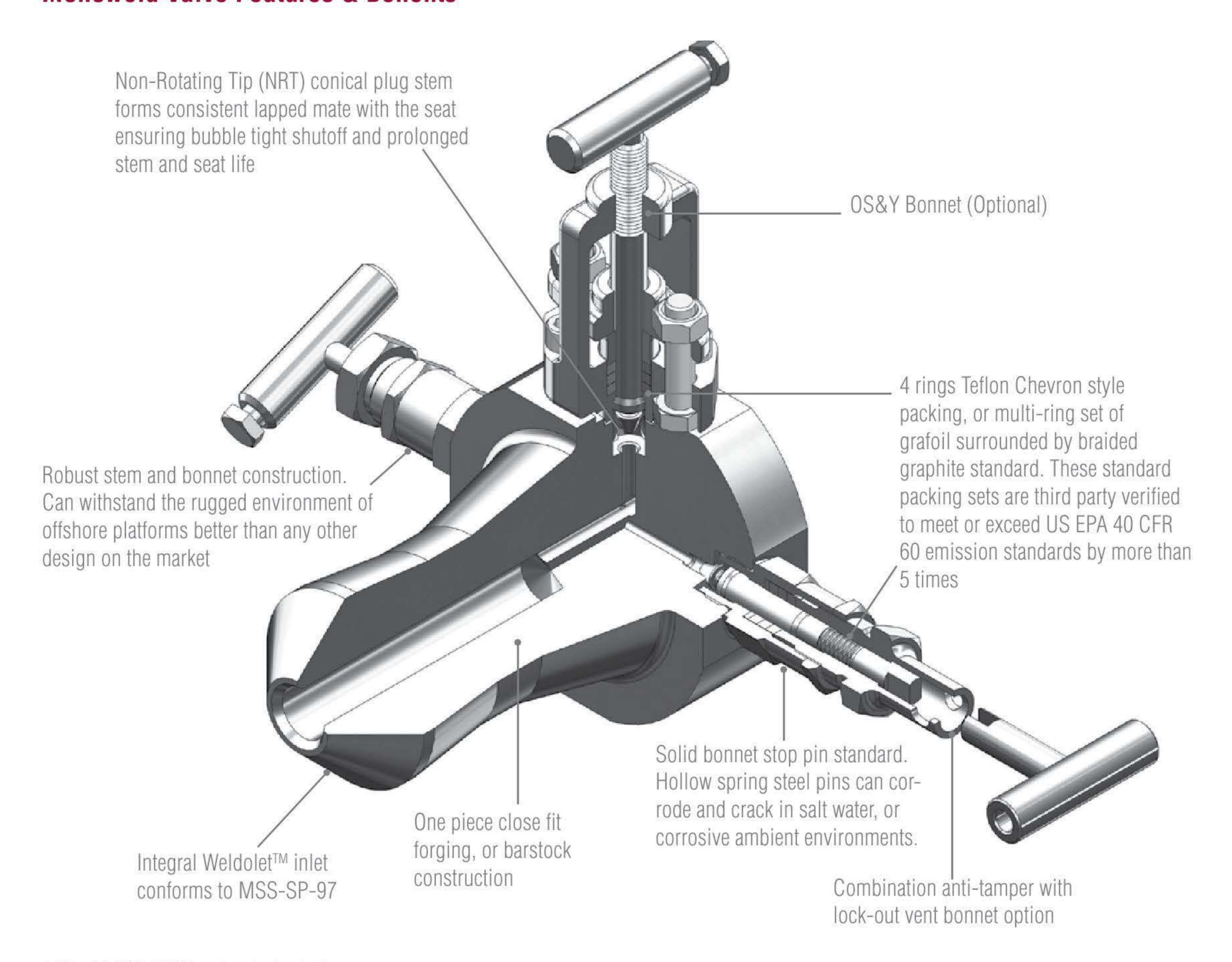
450°F (232°C) for Teflon Packing 1000°F (528°C) for Graphite packing Standard Bonnet Materials

Valve Body Material	Bonnet Material
All grades of Carbon Steel	316/316L NACE SS bonnets
and 316L SS	
Monel 400	Monel 400
Hastelloy C	Hastelloy C
Inconel 600 & Inconel 625	Inconel 625
Incology 800	Incoloy 800
Duplex & Super Duplex	Super Duplex

HEX MONOWELD ADVANTAGES & CUSTOMER BENEFITS

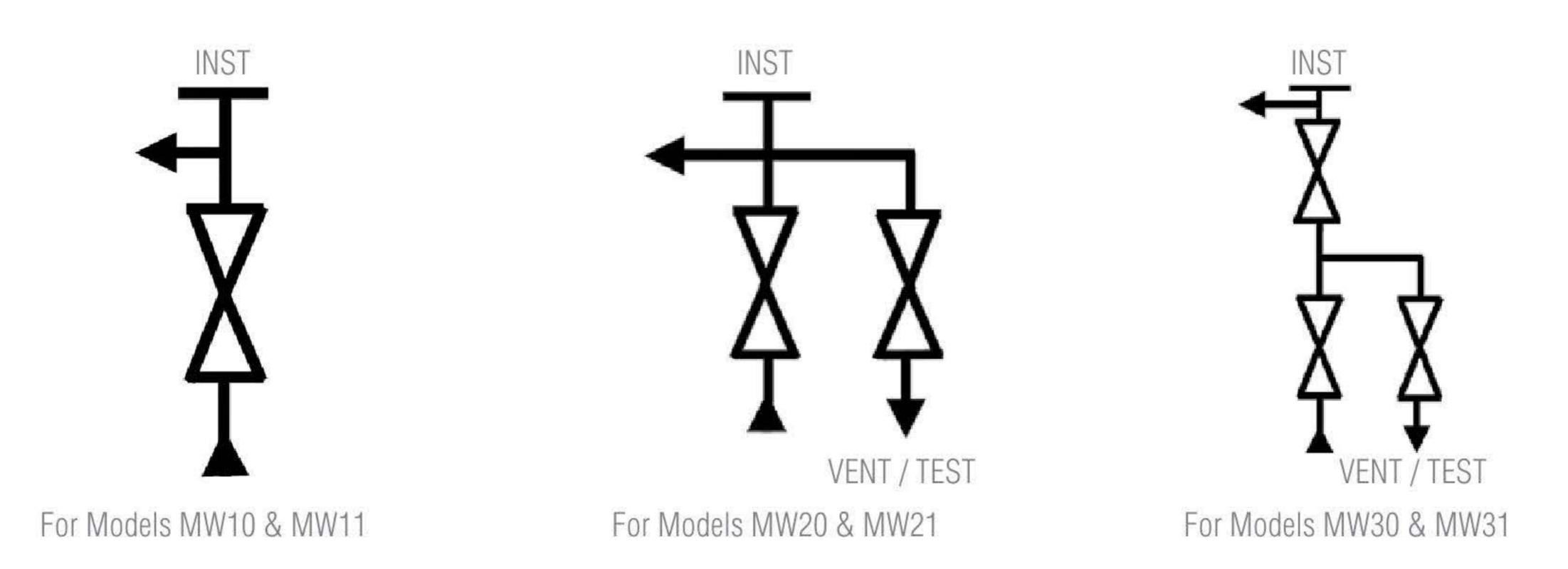
- Valve with integral branch fittings means less capital cost for gauge pressure or analyzer installation
 - Reduces required components & welds: one instead of two or three
 - Reduces total installation height and weight
 - Reduces weld corrosion probability
 - Integral salle inlet machined to match installation pipe size & schedule per MSS SP-97,
 - -Lower probability of process pipe weld distortion
 - -Reduces total potential leak paths, minimizing total probable emissions
- API 607 5th Edition (fire test)
- Large variety of standard and optional forged or bar materials and outlet options, means you can select the style and material you need immediately from catalog, instead of having to contact the factory
- Hex was the first in the industry to utilize Non-Rotating Stem Tip
 (NRT) technology. When the step tip contacts the seat, it stops rotating, preventing the cross scoring and eventual leaks that can occur with ball type stems
- Robust bonnet and stem design means higher probability of longer life, and less break risk than competitors
- 4 rings Teflon Chevron style packing, or multi-ring set of grafoil surrounded by braided graphite standard
- Special built-to-order design inquiries welcome

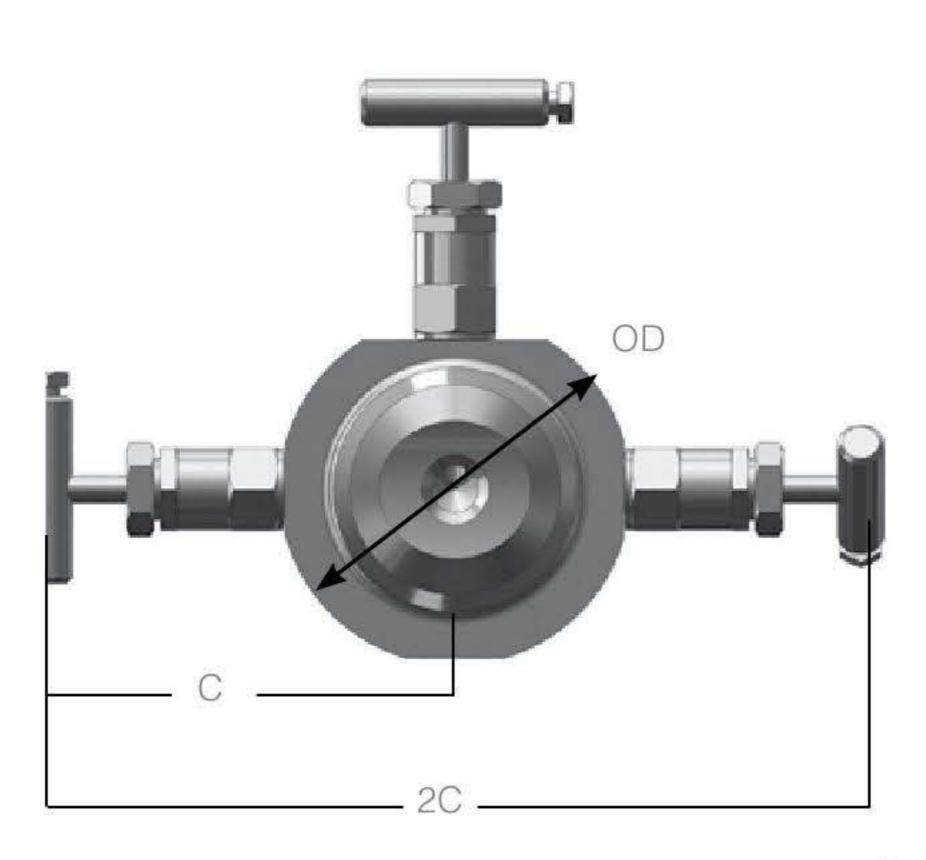
Monoweld Valve Features & Benefits

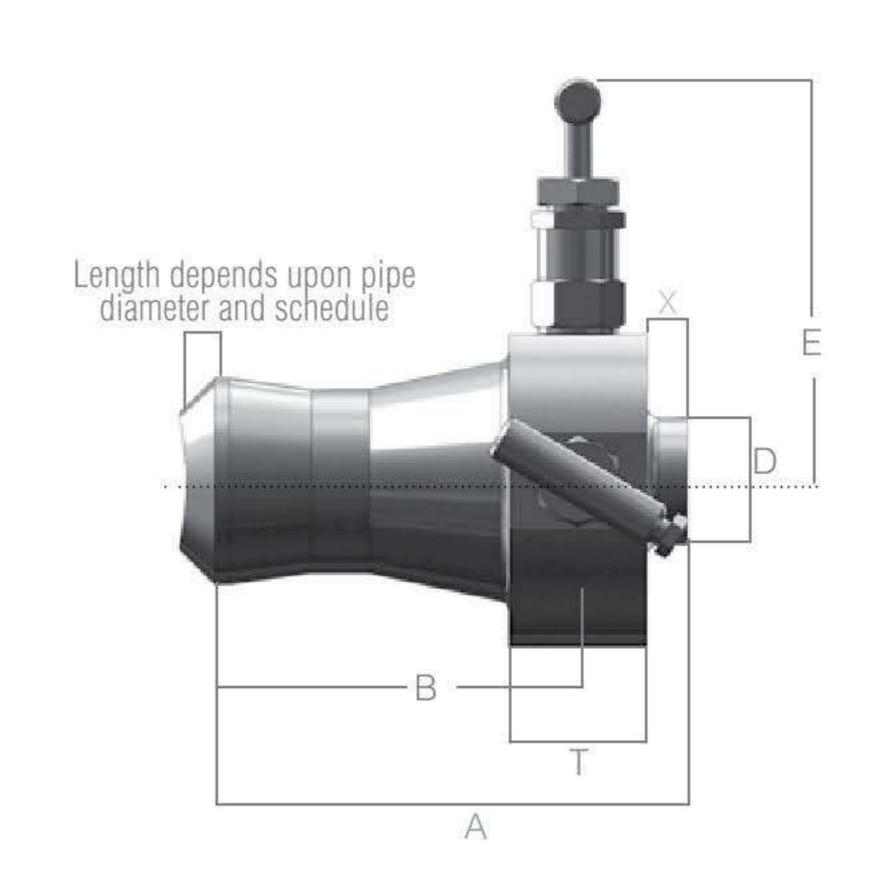


1/2" - 14 NPT, FNPT vent port standard

Flow Schematics

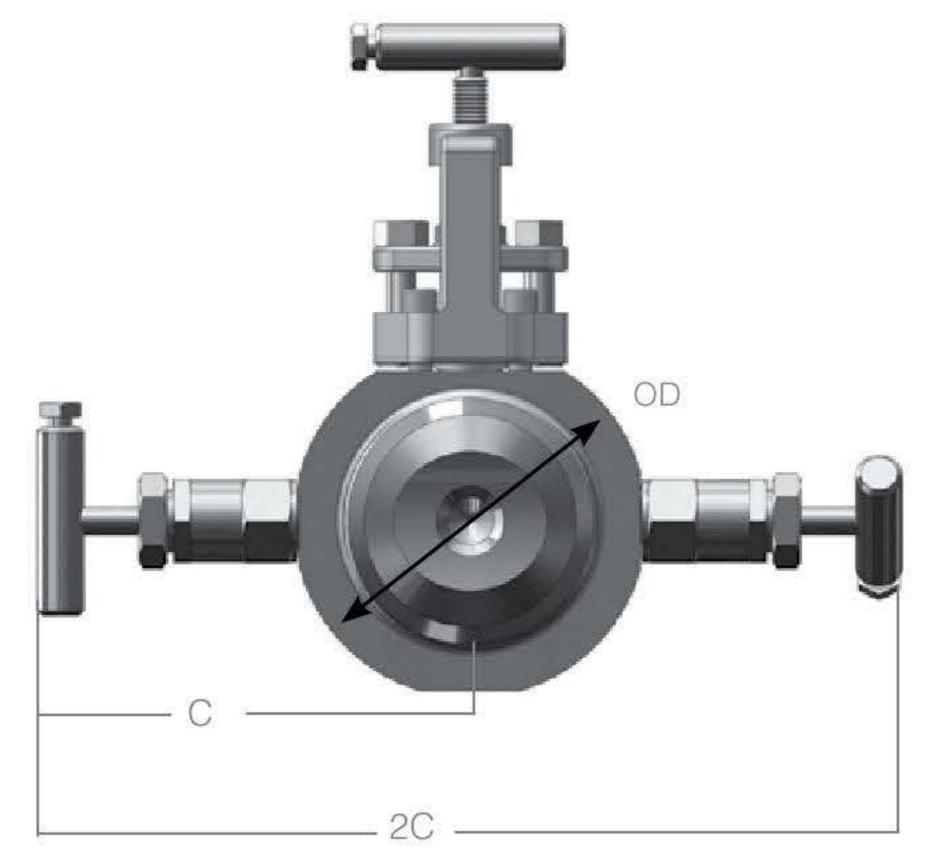


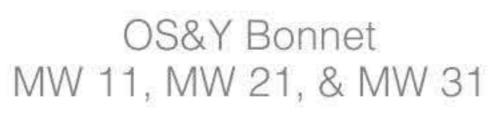


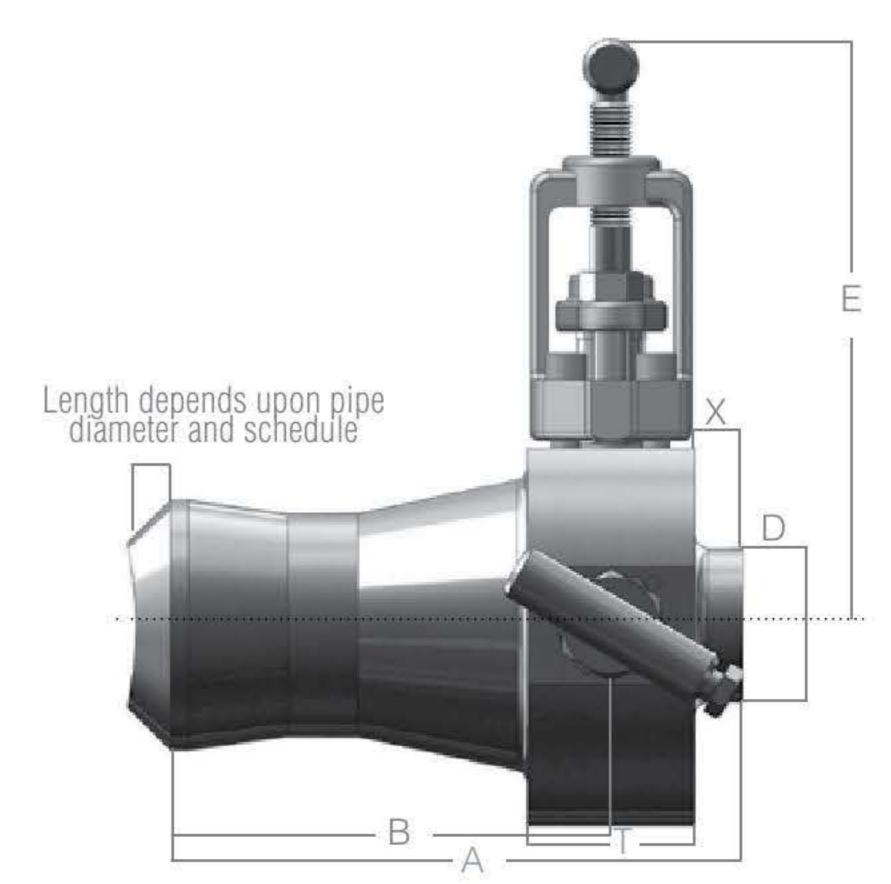


Standard Screwed Bonnet MW 10, MW 20, & MW 30

Dimensions (inches)									
Model	Туре	А	В	E	2C	D	T	OD	X
MW10	Single Block Screwed Bonnet	5.2 (132.0)	4.0 (102.0)	4.3 (109)	420	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)
MW20	Single Block & Bleed Screwed Bonnet	5.2 (132.0)	4.0 (102.0)	4.3 (109)	4.5 (114)	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)
MW30	Double Block & Bleed Screwed Bonnet	5.2 (132.0)	4.0 (102.0)	4.3 (109)	4.5 (114)	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)







Dimensions (inches)									
Model	Туре	А	В	E	2C	D	I	OD	Х
MW11	Single OS&Y Bonnet	5.2 (132.0)	4.0 (102.0)	5.3 (135)	·	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)
MW21	Single Block & Bleed OS&Y Bonnet	5.2 (132.0)	4.0 (102.0)	5.3 (135)	4.5 (114)	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)
MW31	Double Block & Bleed OS&Y Bonnet	5.2 (132.0)	4.0 (102.0)	5.3 (135)	4.5 (114)	1.4 (35,6)	1.5 (38,1)	3.8 (96,5)	0.44 (11,2)



MODEL	TYPE
MW10	Single Block Screwed Bonnet
MW11	Single Block OS&Y Bonnet
MW20	Single Block & Bleed Screwed Bonnet
MW21	Single Block & Bleed OS&Y Bonnet
MW22	Single Block & Bleed 2 OS&Y Bonnets
MW30	Double Block & Bleed Screwed Bonnet
MW31	Double Block & Bleed OS&Y Bonnet
MW32	DBB 2 OS&Y Bonnets, one std Bonnet
MW33	Double Block & Bleed 3 OS&Y Bonnets

	SEAT
1	Hard Seat
0	10,000 Psig Rated (Screwed Bonnet TFE only, Material dependent)

	MATERIAL
U	SST, A479 316
D	SST A479 316 NACE
Υ	A182 316L
3	A182 316L Nace
Р	Carbon Steel A105
N	Carbon Steel, A105 NACE
K	Low Temp CS A350 LF2
Н	Hastelloy C
1	Incoloy 825
7	Inconel 625
M	Monel
6	Duplex A182 F51
4	Super Duplex A182F55
X	Alloy 20

IZE	ESS PIPE S	PROCE	
	М	1-1/2"	Α
14	N	2"	В
16	Р	2-1/2"	С
18	R	3"	D
20	S	3-1/2"	Е
22	T	4"	F
24	U	5"	G
32	V	6"	Н
34	W	8"	J
36	X	10"	K
42	7 .>	12"	1

	PROCESS PIPE SCHEDULE
1	SCH10
2	SCH20
3	SCH30
4	SCH40
6	SCH60
8	SCH80
Α	SCH100
В	SCH120
C	SCH140
D	SCH160

	OUTLET SIZE
1	1/4" (DN8)
2	3/8" (DN10)
3	1/2" (DN15)
4	3/4" (DN20)
5	1" (DN25)

	OUTLET TYPE
1	FNPT Outlet
2	FSW Connection
7	MNPT Connection
W	Tube Socket Connection
N	HB521 with two plug*
K	HB50

*Three outlet "T" adaptor to allow for upright gauge mount on horizontal pipe, or multiple instrument take-offs

	STEM TIP
0	316L/316L NACE
3	316/316 NACE NRT Stem
4	316/316 NRT Stem
5	316/Stellite NRT Stem
6	I-625/I-625
В	Monel/Monel NRT Stem
D	Hast C/Hast C NRT Stem
Q	I-825/I-825
H	AL20/AL20

	SEAT MATERIAL	
1	Integral Seat	

	PACKING
2	Teflon Packing
3	Graphite Packing

1)	OPTION*
6	100% 316 non-wet parts
9	1/2" FNPT Side Inst. Outlet
Х	1/2" FNPT Side Inst. Outlet w/HB50
С	Pipe plug or vent**
S	Swivel Adapter***

^{*}Note: You can combine up to two options in alpha-numeric order. Contact factory for more.

^{**}Bonnet and plug (optional) material same as body material except for CS bodies which have 316SS bodies.

^{***}Consult factory for swivel adapter ordering options
Contact factory for more options.