



# MonoWeld Products

Integral Weld Inlet Style

OS&Y and Screwed Bonnet Single Block, Block and Bleed, and Double Block and Bleed Flanged Branch Connection Valves For Instrument Isolation



## **MonoWeld . . . One weld, one component!**

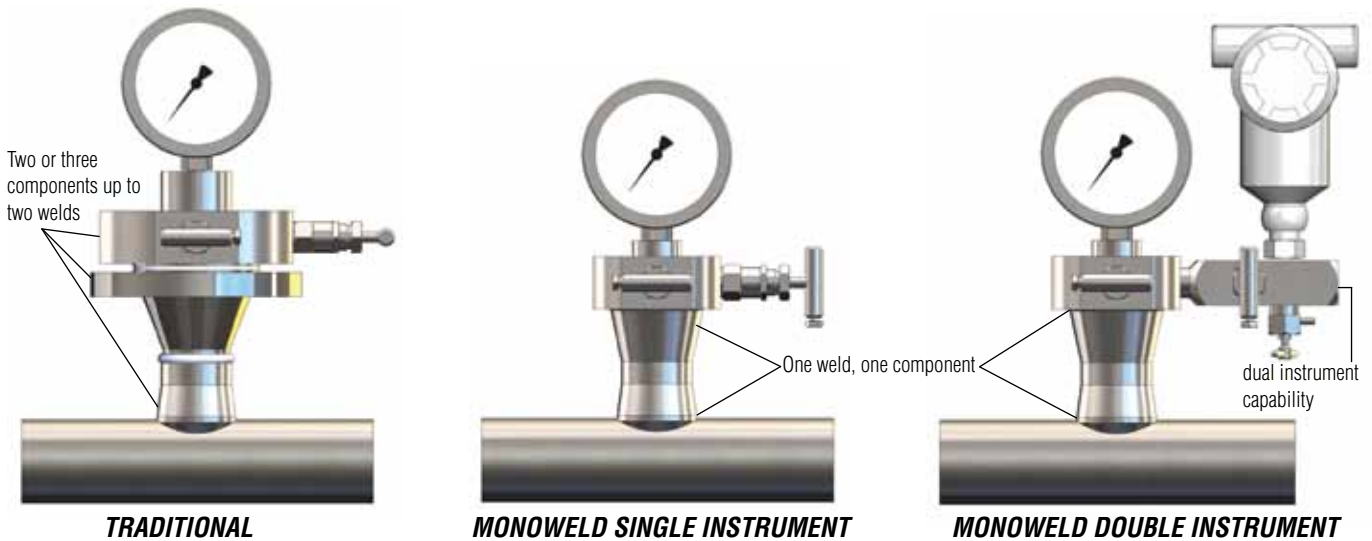
- Significant reductions in installation components, weld time, height and weight for welded gauge pressure or analyzer primary/secondary valve applications
- MSSP-97 design means lower probability of process pipe weld distortion

## **HEXVALVE**

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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.

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

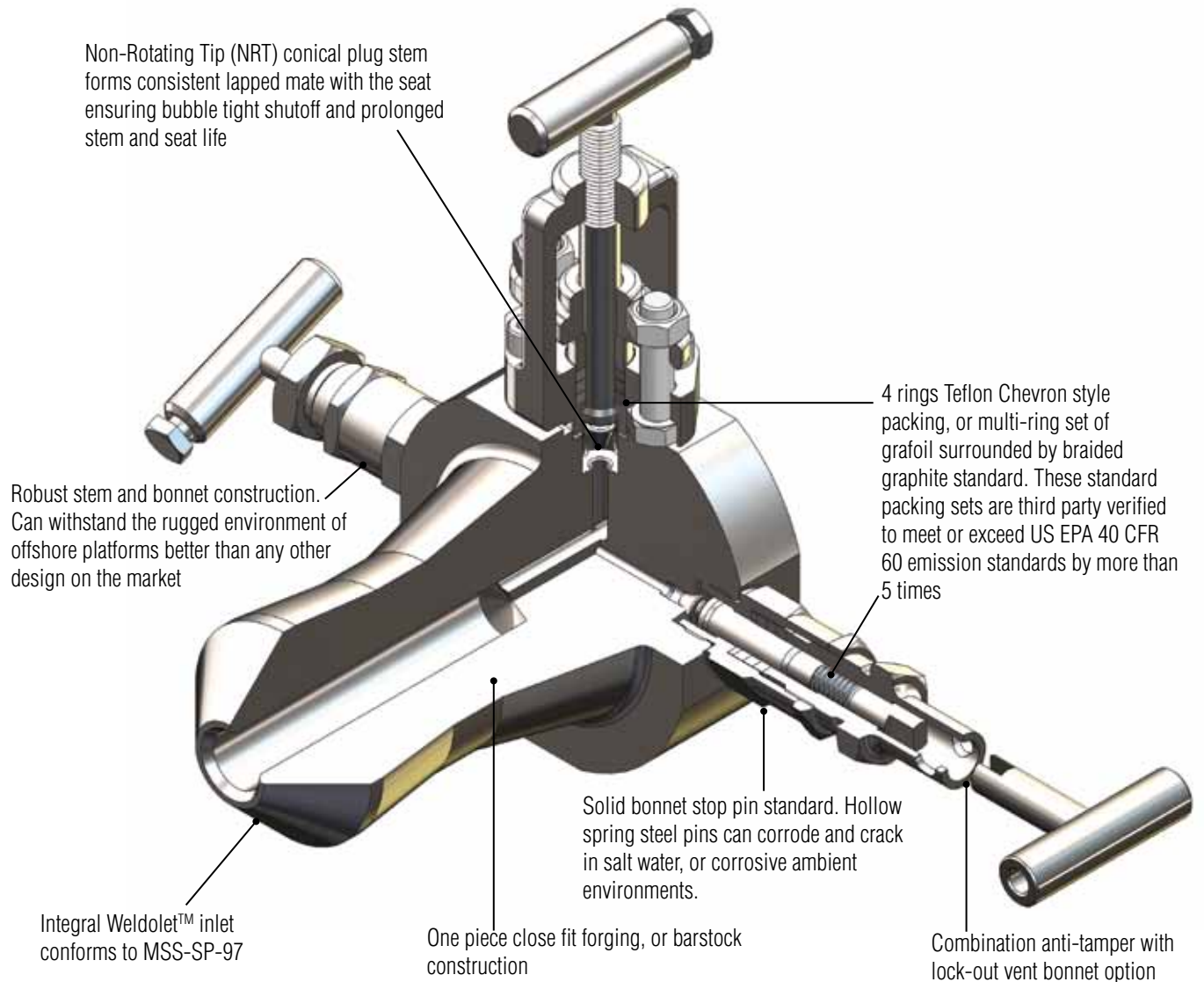
Standard bonnet materials

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

### HEX MONOWELD ADVANTAGES & CUSTOMER BENEFITS

- Valve with integral branch fittings means less capital cost for each gauge pressure or analyzer installation
  - Reduces required components and welds: one instead of two or three
  - Reduces total installation height and weight
  - Reduces weld corrosion probability
  - Integral saddle inlet machined to match installation pipe size and schedule per MSS SP-97.
    - Lower probability of process pipe weld distortion
    - Reduces total potential leak paths, minimizing total probable emissions
- API 607 5<sup>th</sup> 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
- 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

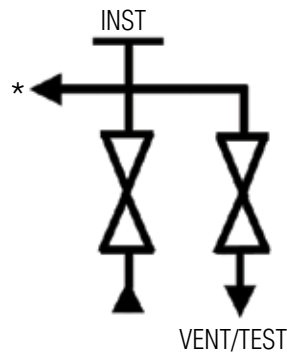
## MONOWELD VALVE FEATURES & BENEFITS



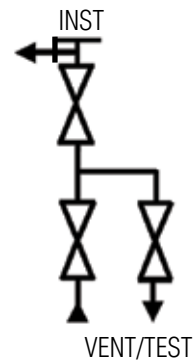
## FLOW SCHEMATIC



For Models: **MW10, MW11**



For Models: **MW20, MW21**



For Models: **MW30, MW31**

\* Side instrument outlet available as option



# MONOWELD VALVES

MODEL	SEAT	BODY MAT'L	PROCESS PIPE SIZE	PROCESS PIPE SCHEDULE	OUTLET SIZE	OUTLET TYPE	STEM/TIP	SEAT MAT'L	PACKING	OPTION	OPTION
MW10	1	P	A	5	3	1	4	1	3	9	9

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
MW30	Double Block & Bleed Screwed Bonnet
MW31	Double Block & Bleed OS&Y Bonnet

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

MATERIAL	
2	A182F 316L (forged)
H	Hastelloy C
I	Incoloy 800
J	Inconel 600
K	Low Temp CS A350 LF2 (forged)
M	Monel 400 (forged)
N	Carbon Steel, A105 NACE
P	Carbon Steel A105
3	A182F 316L NACE (forged)
6	Duplex A182 F51 (forged)
7	Inconel 625 (forged)
4	Super Duplex A182FS3 (forged)

PROCESS PIPE SIZE			
A	1-1/2"	M	14"
B	2"	N	16"
C	2-1/2"	P	18"
D	3"	R	20"
E	3-1/2"	S	22"
F	4"	T	24"
G	5"	U	32"
H	6"	V	34"
J	8"	W	36"
K	10"	X	42"
L	12"		

PROCESS PIPE SCHEDULE	
1	SCH 10
2	SCH 20
3	SCH 30
4	SCH40
6	SCH60
8	SCH80
A	SCH100
B	SCH120
C	SCH140
D	SCH160

OUTLET SIZE	
3	1/2" (DN15)

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	
3	316/316 NACE NRT Stem
4	316/316 NRT Stem
5	316/Stellite NRT Stem
B	Monel/Monel NRT Stem
D	Hast C/Hast C NRT Stem
K	316/Monel NRT Stem

CS valves come standard with 316/316L NACE SS bonnets

SEAT MATERIAL	
1	Integral Seat

PACKING	
2	Teflon Packing
3	Graphite Packing

OPTION *	
9	1/2" FNPT Side Inst. Outlet
X	1/2" FNPT Side Inst. Outlet w/HB50

\* Not available with MW30 and MW31

OPTION	
9	Tamper Proof/Lockout Handle on Vent Valve (screwed bonnet only)



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