

Monoweld Valves



Hex Monoweld Valves

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



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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/quill along with integral 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 \pm 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





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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 All grades of Carbon Steel and 316L SS Monel 400 Hastelloy C Inconel 600 & Inconel 625 Incology 800 Duplex & Super Duplex

Bonnet Material 316/316L NACE SS bonnets

Monel 400 Hastelloy C Inconel 625 Incoloy 800 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
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Monoweld Valve Features & Benefits



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

Flow Schematics



For Models MW10 & MW11



For Models MW20 & MW21



For Models MW30 & MW31







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

Dimensions (inches)										
Model	Туре	А	В	E	2C	D	Т	OD	Х	
MW10	Single Block Screwed Bonnet	5.2 (132.0)	4.0 (102.0)	4.3 (109)	-	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)	





OS&Y Bonnet MW 11, MW 21, & MW 31

Dimensions (inches)										
Model	Туре	А	В	E	2C	D	Т	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	SEAT	BODY Mat'l	PROCESS PIPE SIZE	PROCESS PIPE SCHEDULE	OUTLET SIZE	OUTLET TYPE	STEM/ TIP	SEAT MAT'L	PACKING	OPTION	OPTION
MW10	1	Р	A	5	3	1	4	1	3	9	9
	MODI MW1 MW2 MW2 MW2 MW3 MW3 MW3	P A 5 MODEL TYPE MW10 Single Block Screwed Bonnet MW11 Single Block & Strewed Bonnet MW20 Single Block & Bleed Screwed Bonnet MW21 Single Block & Bleed OS&Y Bonnet MW22 Single Block & Bleed OS&Y Bonnet MW22 Single Block & Bleed 2 OS&Y Bonnet MW30 Double Block & Bleed Screwed Bonnet MW31 Double Block & Bleed OS&Y Bonnet MW32 DBB 2 OS&Y Bonnets, one std Bonnet				1 2 3 4 5		OUTLET S 1/4" (DN 3/8" (DN1 1/2" (DN2 3/4" (DN2 1" (DN2 OUTLET T ENPT QU	SIZE 8) 10) 15) 20) 5) TYPE tlet		
	NW33 Double Block & Bleed 3 US&Y Bonnets SEAT 1 1 Hard Seat 0 10,000 Psig Rated (Screwed Bonnet TFE only, Material dependent)					2 7 W N K	Tub HE				
	U D Y 3 P N K H I 7 M 6 4 X		MATERI SST, A479 SST A479 31/ A182 316L Carbon Steel, A Low Temp CS / Hastelloy Incoloy Inconel 6 Monel Duplex A18 Super Duplex / Alloy 2	AL 316 6 NACE 6L Nace 91 A105 1.105 NACE 1.105		*Three outl mount on h 0 3 4 5 6 B D Q H	et "T" adapto iorizontal pip 316/ 331 Moi Has	r to allow fo e, or multip STEM T 316L/316L f 316 NACE f 16/316 NRT 6/Stellite NF 1-625/1-6: hel/Monel N t C/Hast C N 1-825/1-8: AL20/AL3 SEAT MATE	r upright gaug le instrument ta IP VACE NRT Stem Stem RT Stem 25 RT Stem IRT Stem 25 20 RT Stem 25 20 RT AL	e ake-offs	
	A B C D E F G H J K L	1-1 2 2-1 3 3-1 4 5 6 8 8 10 12	PROCESS PIP /2" M " N /2" P " R /2" S " T " U " V " W " X	E SIZE 14" 16" 18" 20" 22" 24" 32" 34" 36" 42"		2 3 6 9 X C S	100 1/2" F 1/2" FNPT P S	PACKIN Teflon Pack Graphite Pac OPTION & 316 non-V FNPT Side Ir 5 Side Inst. (ipe plug or v wivel Adapt	G king cking * wet parts nst. Outlet Dutlet w/HB50 vent** er***		
	1 2 3 4 6 8 A B C D	PR	OCESS PIPE SCH1(SCH2(SCH3(SCH4(SCH4(SCH4(SCH4(SCH4(SCH10 SCH12 SCH14 SCH16	SCHEDULE)))))))))))))		*Note: You ci order. Contac **Bonnet and except for CS ***Consult fa Contact facto	an combine up st factory for m d plug (optiona S bodies which actory for swiv ry for more op	o to two option lore. al) material sa I have 316SS el adapter orc tions.	ns in alpha-num ume as body mat bodies. dering options	erial	