



HART O-RING UNIONS

MANUFACTURING SPECIFICATIONS

Material Meets:

Stainless Steel * ASTM A182 F304 & L

ASTM A182 F316 & L

Carbon Steel ASTM A105

Low Temperature ASLF2 TM A350 LF1

ASTM A350

Dimensions

Pipe Threads MSS SP-83 (ANSI B2.1 Now ANSI B1.20.1 REV 95)

Unified Screw Threads

(Nut threads)

ANSI/ASME B1.1

Socket Weld Ends ANSI B16.11 Butt Weld Ends ANSI B16.9

Socket Weld Wall

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Dimensions

ANSI/ASME B36.10M

Quality MSS SP-83 Surface Finish MSS SP-83

Testing MSS SP-83

Identification The unions can be identified by the "WOG" pressure rating (3000 or 6000) which

is included in the figure number marked on the union surface.

Installation & Maintenance

Initial Installation-Turn nut hand tight and wrench one quarter (1/4) turn maximum.

No further maintenance is required.

* All HART Stainless unions have 303SS grade nuts to minimize galling. 316SS grade nuts available on request.

Pressure Ratings

These unions shall be designated as Class 3000 socket-welding or threaded and shall carry ratings shown in Table 1 of Mil Spec MSS SP-83

Table 1

Pressure-temperature service rating class 3000 carbon stainless srteel unions socket welding & threaded ends.

NON-SHOCK WORKING PRESSURE psig				
SERVICE * Temp. Degree F	ASTM A105 Carbon Steel	ASTM A182 F316	A STM A182 F304L F316L	A STM A182 F304
100	3000	2915	2430	2915
200	2735	2510	2050	2430
300	2655	2265	1835	2140
400	2565	2080	1670	1905
500	2425	1935	1535	1770
600	2220	1830	1460	1680
650	2180	1800	1420	1650
700	2155	1750	1390	1630
750		1710	1360	1610
800		1680	1330	1595
850		1645	1300	1575
900		1595		1555
950		1565		1515
1000		1470		1300
Note: There exists a see to be becaused by the terrestrict limitation of the consider O Discount Lateral and				

Note: These ratings may be lowered by the temperature limitations of the specific O-Ring used. Integral seat "come to ball" unions fully rated.

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