

Signet IR8S and IR5D Iron Strap-on Saddles



IR8S-IR5D.091 Rev. 0 02/18

Installation Sheet



Safety Information

1. Depressurize and vent systems prior to installation.
2. Confirm chemical compatibility before use.
3. Do not exceed maximum temperature/pressure specifications.
4. Wear safety goggles or face shield during installation/service.
5. Do not disassemble or alter product construction.

	Personal Protective Equipment (PPE) Always utilize the most appropriate PPE during installation and service of Signet products.
	Pressurized System Warning Piping System may be under pressure, take caution to vent system prior to installation or removal. Failure to do so may result in equipment damage and/or serious injury.

Specifications

General

Compatibility..... P51530-XX, 3-2536-XX, 3-8510-XX, 3-8512-XX, 3-2537-XC-XX, 3-2551-XX, 3-2724-2726, 3-2734-2736 (3-2724 and 3-2735 family of sensors, 4 inch pipe max.)

Pipe Size Range 2 to 30 in.

Wetted Materials

Body Ductile Iron (ASTM A356)

Finish..... Fusion bonded Epoxy per AWWA C213

Bale(s)

2 in. to 30 in. Carbon Steel ASTM A108 (C1018) or HSLA (C111), electro-galvanized with di-chromate seal ASTM B633

30 in..... ASTM A285

Nuts

2 in. to 30 in. Cold formed semi-finished heavy hex steel A563, electro-galvanized with di-chromate seal ASTM B633

30 in..... Carbon Steel ASTM A536

Studs

30 in..... Carbon Steel ASTM A536

Washers (2),

2 in. to -24 in.

30 in..... Hemispherical washers: Ductile Iron ASTM A 536

Gasket..... Nitrile (Buna N) NSF 61® compounded to resist oil, acids, alkalis, most (aliphatic) hydrocarbon fluids water and many chemicals*

Max. Temperature/Pressure Rating

Gasket..... 28.8 °C to 82.2 °C, -20 °F to 180 °F

Working Pressure

2 in. to 24 in..... 20 bar, 300 PSI

30" 20 bar, 300 PSI

Shipping Weight

See Ordering chart

Standards and Approvals

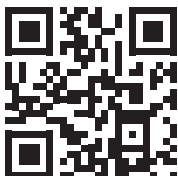
RoHS compliant

China RoHS

Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management



• [English](#)



Installation Instructions

Refer to specific sensor manual for proper pipe location.

1. Drill clearance hole for sensor insert "C" (1.5 or 2.25 in. diameter) Figures 1-3.
2. Deburr hole to remove sharp edges, Figure 4.
3. Clean pipe surface thoroughly, particularly where gasket will seat.
4. Check Gasket for proper positioning in saddle body, Figure 5.
5. Lubricate pipe and face of gasket with soapy water. Washer is to be used on side with open lug.
6. Prior to tightening, position saddle as required to suit installation.
7. Tighten nuts progressively and uniformly as follows:
 - 1/2 in. nuts ~40-50 ft lbs torque
 - 5/8 in. nuts ~60-70 ft lbs. torque
 - 3/4 in. nuts ~80-90 ft lbs. torque
8. Install GF Signet sensor per individual sensor manual instructions.

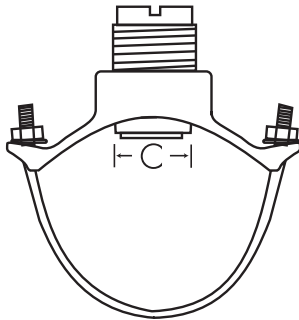
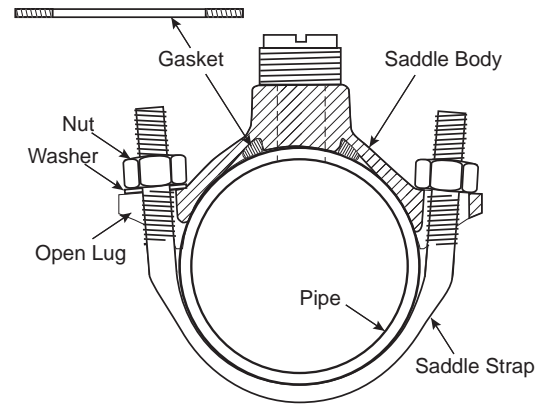


Figure 1



Figure 2



Figure 3



Figure 4

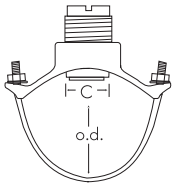


Figure 5



Figure 6

Dimensions/Ordering Information



Ordering Notes

- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- Buna-N O-ring

Part No.	Code	C (in.)	Pipe size (in.)	Saddle Pipe dimension Range		Weight	
				o.d. min. (in.)	o.d. max. (in.)	lbs.	kg
IR8S XXX Iron Strap-on Saddle for use with SCH 80/40 Pipe							
IR8S020	198 801 425	1.50	2.00	2.35	2.56	1	0.5
IR8S025	198 801 426	1.50	2.50	2.44	2.91	1	0.5
IR8S030	198 801 427	1.50	3.00	2.97	3.54	1	0.5
IR8S040	198 801 420	2.25	4.00	3.74	4.55	1	0.5
IR8S050	198 801 429	2.25	5.00	4.74	5.63	1	0.5
IR8S060	198 801 430	2.25	6.00	5.94	6.70	1	0.5
IR8S080	198 801 431	2.25	8.00	7.69	8.72	2	1
IR8S100	198 801 432	2.25	10.0	10.64	12.12	2	1
IR8S120	198 801 433	2.25	12.0	12.62	14.32	2	1
IR8S140	159 070 034	2.25	14.0	12.62	14.32	2	1
IR8S160	159 070 035	2.25	16.0	15.95	17.25	2	1
IR8S180	159 070 036	2.25	18.0	17.40	18.88	2	1
IR8S200	159 070 037	2.25	20.0	19.25	20.00	1.5	1.5
IR8S240	159 070 038	2.25	24.0	23.75	24.50	1.5	1.5
IR5D XXX North America Ductile Iron Pipes - AWWA C-151							
IR5D035	159 070 022	2.25	3.00	3.74	4.13	1	0.5
IR5D040	159 070 023	2.25	4.00	4.74	5.63	1	0.5
IR5D070	159 070 024	2.25	6.00	6.84	7.60	1	0.5
IR5D080	159 070 025	2.25	8.00	8.54	10.10	2	1
IR5D100	159 070 026	2.25	10.0	10.64	12.12	2	1
IR5D120	159 070 027	2.25	12.0	12.62	14.32	2	1
IR5D140	159 070 028	2.25	14.0	14.73	15.65	2	1
IR5D160	159 070 029	2.25	16.0	17.40	18.88	2	1
IR5D180	159 070 030	2.25	18.0	19.25	20.00	2	1
IR5D210	159 070 031	2.25	20.0	21.35	22.10	2	1
IR5D240	159 070 032	2.25	24.0	25.55	26.32	1.5	1.5
IR5D300	159 070 033	2.25	30.0	31.49	32.24	1.5	1.5

Other prices and sizes, contact factory.



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