



Addenda to all Floco F series installation and operation manuals

Change of pressure ratings for BARTON® Floco® meters &

Change to the face to face dimension of 2"150, 300 and 600 ANSI flanged Floco® meters

In 2007 a change was made to the pressure ratings of F500 and F2500 Floco meters. This design change was made to enable the Floco meter to comply with American Society of Mechanical Engineers ASME B31.3 petroleum and refinery code. Under this requirement the design must be leak tight when four times the marked safe working pressure is applied to the meter. These safety factors exist to ensure the product is robust even when exposed to the cumulative effects of piping stress, vibration, and hydraulic shock, thermal and pressure induced cyclic fatigue, corrosion or other un-anticipated operating conditions.

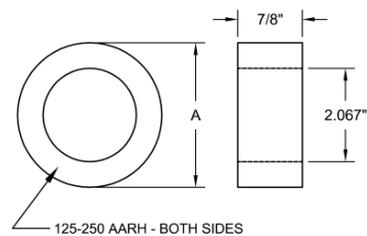
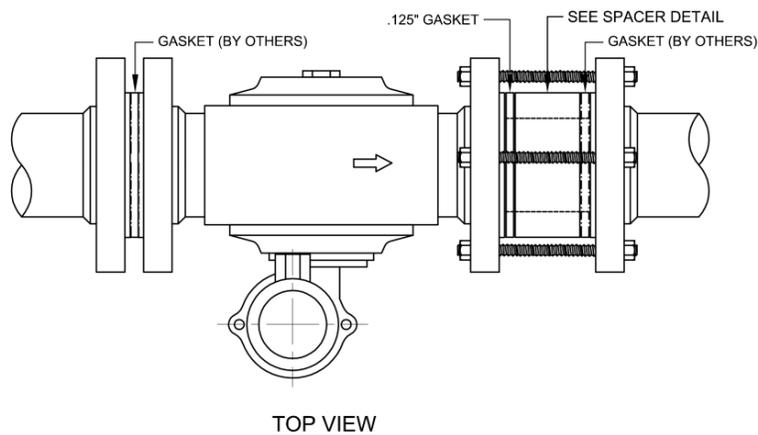
To accommodate the safety factor requirement the products SWP were typically reduced. The following table indicates the safe working pressure for Floco products supplied after February 9, 2007

Floco						
Model	SWP, PSI (MPA)	Service	Body bolts – Alloy Steel			
			Size	Grade	Qty.	Part Number
F-500	425 (2.9)	NACE	3/8"-24	SA-193-B7M	8	1334-2300J
	750 (5.2)	Standard	3/8"-24	SA-574-4037	8	0220-1053J
F-2500 Standard	850 (5.9)	NACE	3/8"-24	SA-193-B7M	16	1334-2300J
	1500 (10.3)	Standard	3/8"-24	SA-574-4037	16	0220-1053J
F-2500 Special	1500 (10.3)	NACE	7/16"-20	SA-564-630 H1150	16	0210-9007J
	2000 (13.8)	Standard	7/16"-20	SA-574-4037	16	0220-9007J

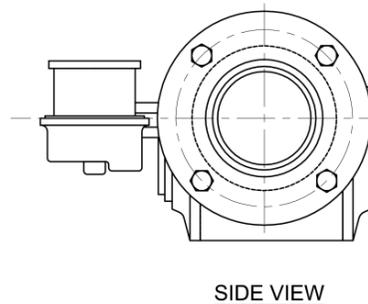
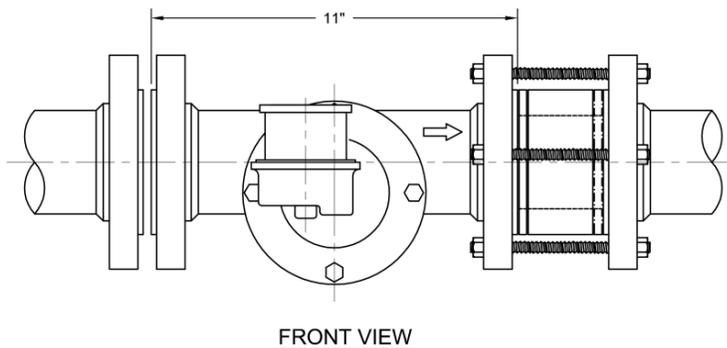
Associated with the above design improvement was a dimensional change to the 2" 150#, and 300# flanged meters. The lengths of these meters were reduced from 12" to 11 inches. The 2" 600# meter was also change from 13" to 12" in length.

By making this change the joint integrity of the double welded slip-on type flange was enhanced by increasing the body to flange overlap.

To accommodate the installation of the one inch shorter meter into existing piping Cameron offers a ring spacer made of A516 grade 70 alloy steel. The thickness of the spacer is actually 7/8" thick to allow for an additional 1/8" thick metal spiral wound gasket. The ring spacer features a full flange face on both sides and a diameter to nest within the interconnecting bolt circle. The Cameron offered studs are B7M grade alloy steel and are 4.5" long. A standard set of nuts and two more gaskets are required to complete the installation of the end of the meter with the spacer.



A = 4" For 2" 150# Flange
 A = 4.25" for 2" 300 or 600# Flange



ANSI	Gasket		Stud		Nut		Spacer
	Part number	Part number	Qty Required	Part number	Qty Required	Part number	
150	9A-39-020-1-06FC	9A-C1904-005-06036	4	9A-C1408-005-06000	8	9A-0000-90040	
300/600	9A-9991001	9A-C1904-005-06036	8	9A-C1408-005-06000	16	9A-0000-90050	

Cameron is proud of our long standing and successful policy of compliance to evolving safety requirements. If you have any questions regarding the changes in SWP or to purchase the spacer please contact your Cameron supplier.