

UN-PRESSURIZED ORIFICE FITTINGS

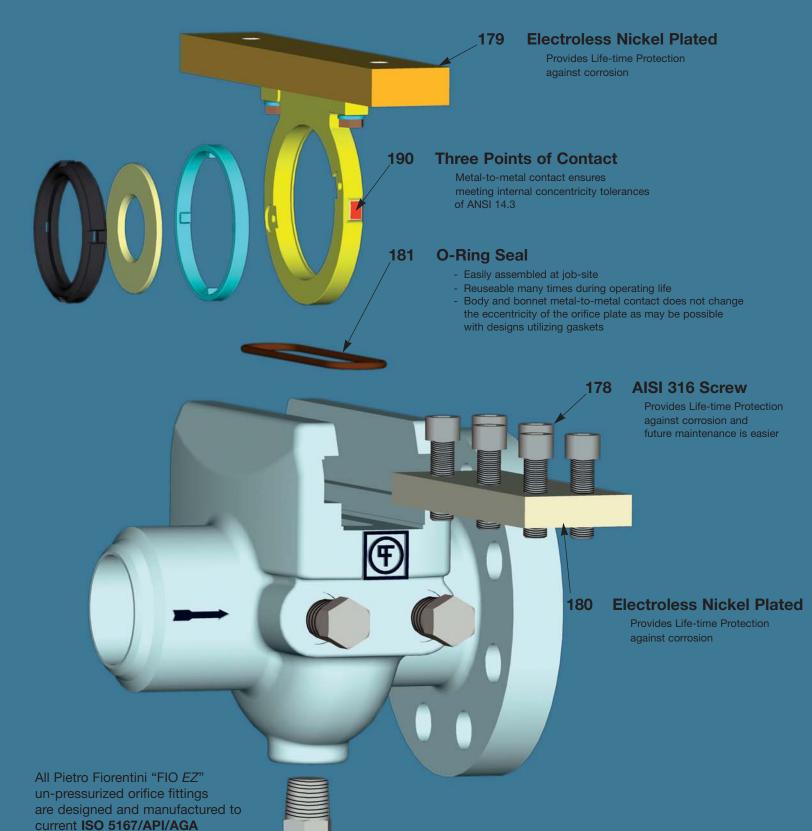


FIO EZ



FEATURES AND BENEFITS

Fig. **945**



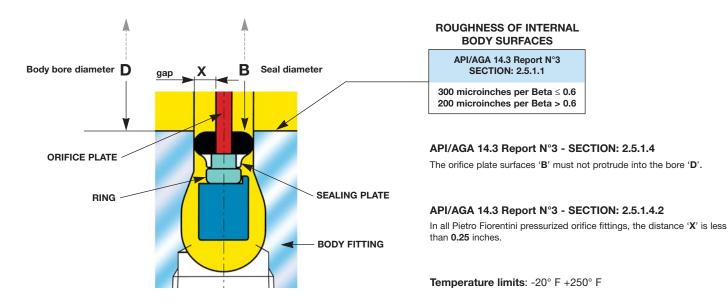
Alternate fittings are available in socket weld, threaded and weld ends upon request.

14.3 standards.



TECHNICAL DATA

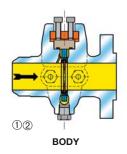
Fig. **945**

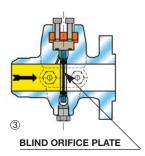


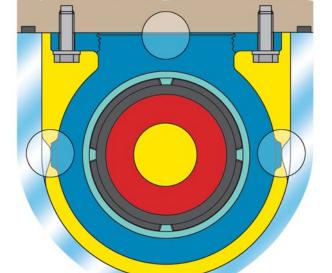
(1) (2) TEST PRESSURE IN ACCORDANCE TO API 6D

	HYDROSTATIC TEST	PNEUMATIC TEST			
	① BODY AND BONNET	② BODY	3 PLATE		
CLASS	psi	psi	psi		
150	425	80	2.9		
300	1100	80	2.9		
600	2175	80	2.9		

The test pressures listed are **NOT** valve operating pressure ratings.







max (ϵ) ECCENTRICITY FOR 0,75 BETA (β)

SIZE	Dm	API/AGA 14.3 Report N°3 Section: 2.6.2.1			
2	2.066	0.005905			
3	3.068	0.009055			
4	4.025	0.011811			
6	6.066	0.018110			
inches					

API/AGA 14.3 Report N°3 Section: 2.6.2.1 ECCENTRICITY (£)

$$\varepsilon_{\text{max}} = \frac{0.0025 \text{ Dm}}{0.1 + 2.3 (\beta_{\text{max}})^4}$$

where:

 $\epsilon_{ extbf{max}}$ Allowable plate bore eccentricity measured parallel to the axis of the pressure taps;

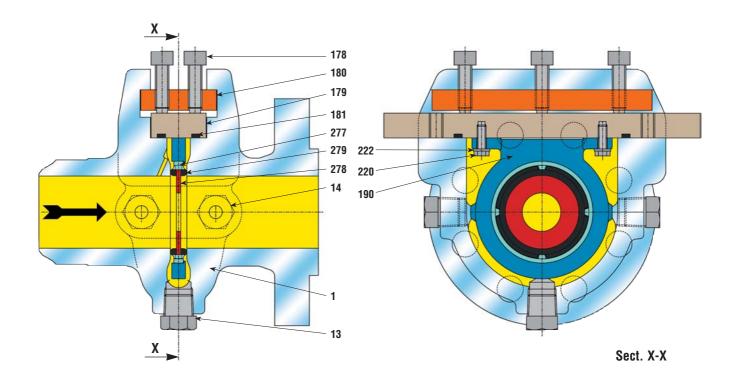
Dm is the mean bore diameter;

 $\beta_{\mbox{max}}$ is the maximum beta ratio of the diameters used.

THREE POINTS OF CONTACT

This system enables the fitting to meet internal concentricity tolerances of the orifice plate as required by ISO 5167/API/AGA 14.3 standards.







	2	7	9	
N	n	Т	F	s

POS.

1

13

14

178

179

180

181

190

220

222

277

278

ENP (Electroless Nickel plated).

DESCRIPTION

DRAIN PLUG

BODY

PLUG

SCREW

BONNET

CLAMP

O RING

SCREW

WASHER

RING

PLATE CARRIER

ORIFICE PLATE

SEALING PLATE

MATERIALS

ASTM A 105

ASTM A 105

AISI 316

AISI 1035

AISI 1035

BUNA-N

AISI 316

BUNA-N

ASTM A 216 WCB

ASTM A 351 Gr CF8

ASTM A 351 Gr. CF8/AISI 410

CARBON STEEL

CARBON STEEL

NOTES

2

2

1

1

2

2

2 Zinc coated.



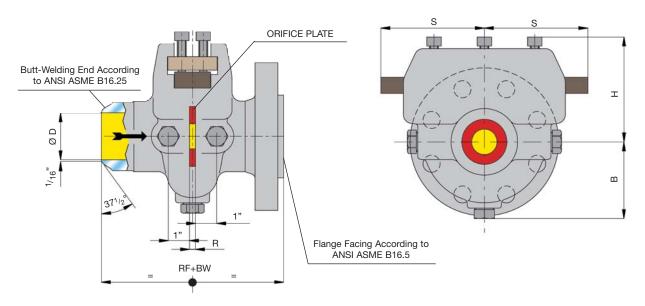


Fig. **945-1**

CLASS 150

ND	RF+BW	D*	В	н	s	R	WEIGHT
2	7 1/4	2.067	3	4 ⁵ /8	4 ⁵ /8	1/8	41
3	7 ¹ / ₂	3.068	4	5 ¹ /8	5 ¹ / ₄	1/8	49
4	9	4.026	4 7/8	5 ⁵ /8	5 ³ / ₄	1/8	68
6	10 ¹ / ₄	6.065	6	7 ³ /8	6 ³ / ₄	1/8	114
inches						pounds	

Fig. **945-3**

CLASS 300

ND	RF+BW	D*	В	н	S	R	WEIGHT
2	7 1/4	2.067	3	4 ⁵ /8	4 ⁵ /8	1/8	42
3	7 ¹ / ₂	3.068	4	5 ¹ / ₈	5 ¹ / ₄	1/8	54
4	9	4.026	4 7/8	5 ⁵ /8	5 ³ / ₄	1/8	80
6	10 ¹ / ₄	6.065	6	7 ³ /8	6 ³ / ₄	1/8	130
inches						pounds	

Fig. **945-6**

CLASS 600

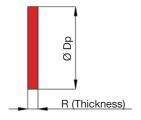
ND	RF+BW	D*	В	н	s	R	WEIGHT
2	8	2.067	3	4 ⁵ / ₈	4 ⁵ / ₈	1/8	47
3	9	3.068	4	5 ¹ / ₈	5 1/4	1/8	72
4	10	4.026	4 7/8	5 ⁵ /8	5 3/4	1/8	98
6	11 ¹ / ₂	6.065	6	7 3/8	6 3/4	1/8	160
inches						pounds	

^{*} Bore tolerance "D" ± 0.002"

Other bores are available on special request

ORIFICE PLATE DIAMETER

ND	Dp	R		
2	2.437	1/8		
3	3.437	1/8		
4	4.406	1/8		
6	6.437	1/8		
inches				



LIMITED WARRANTY

Seller warrants the Goods to be free from defects in materials manufactured by Seller and in Seller's workmanship for a period of one (1) year from the date of shipment by the Seller (the "Warranty Period"). Resale goods and those products incorporated into the Goods shall carry only the warranty extended by the original manufacturer to the original purchaser.

THIS LIMITED WARRANTY (A) IS IN LIEU OF, AND DISCLAIMS AND EXCLUDES, ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OF CONFORMITY TO MODELS OR SAMPLES; (B) does not apply to any Goods which have be (i) repaired, altered or improperly installed, (ii) subject to improper use or storage, (iii) used or incorporated with other materials, or equipment, after Buyer or anyone using the Goods, has, or reasonably should have, knowledge of any defect or nonconformance of the Goods, or (iv) manufactured, fabricated or assembled by anyone other than the seller; (C) shall not be effective unless Buyer notifies Seller in writing of any purported defect or nonconformance within thirty (30) days after Buyer discovers or should have reasonably discovered such purported defect or nonconformance; and (D) shall only extend to Buyer and not to any subsequent buyers or users of the Goods. Buyer shall provide Seller access to the Goods to which Buyer claims purported defect or nonconformance; upon request by Seller, Buyer shall at its own risk and expense, promptly return the Goods in question to Seller's Plant. Seller shall, at its option, promptly repair or replace F.O.B. point of manufacture, that portion of the Goods found by Seller to be defective. Goods repaired and parts replaced during the Warranty Period shall be in warranty for the remainder of the original Warranty Period. A letter signed by an officer of Seller can only modify this warranty.

The specifications and drawings are indicative and not binding. We reserve the right to make changes without prior notice.

