



TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

S-GA.176

OTTAWA, December 11, 1959.

TYPE APPROVAL

DANIEL JUNIOR ORIFICE FITTINGS

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Junior Orifice Fittings, manufactured by the Daniel Orifice Fitting Company, Los Angeles, California, U.S.A., and distributed in Canada by Process-Instrument Systems Limited, 44 Haas Road, Rexdale P.O., Toronto, Ontario.

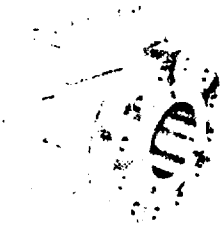
Rating of Apparatus:

		<u>Standard Flange Facing</u>	<u>Range</u>
<u>Cast Steel</u>			
8" to 14"		150 A.S.A.	230 psi Gauge C.W.P.
8" to 14"		300 A.S.A.	600 psi Gauge C.W.P.
8" to 12"		600 A.S.A.	1200 psi Gauge C.W.P.
8" to 12"	*	900 A.S.A.	1800 psi Gauge C.W.P.
16"	*	150 A.S.A.	230 psi Gauge C.W.P.
16"	*	300 A.S.A.	600 psi Gauge C.W.P.
16"	*	600 A.S.A.	1200 psi Gauge C.W.P.
20" to 24"	*	150 A.S.A.	230 psi Gauge C.W.P.
20" to 24"	*	300 A.S.A.	600 psi Gauge C.W.P.
20" to 24"	*	600 A.S.A.	1200 psi Gauge C.W.P.
		<u>Ring-Joint Flange Facing</u>	
8" to 12"		600 A.S.A.	1440 psi Gauge C.W.P.
8" to 12"	*	900 A.S.A.	2160 psi Gauge C.W.P.
8"	*	1500 A.S.A.	3600 psi Gauge C.W.P.
16"	*	600 A.S.A.	1440 psi Gauge C.W.P.
20" to 24"	*	600 A.S.A.	1440 psi Gauge C.W.P.

...../2
"Flangnek"
(over)

DANIEL JUNIOR ORIFICE FITTING

"DS" (DUAL Synthetic Rubber SEAL) and
"TS" (ALL TEFLON SEAL)
Cast Carbon and Heat Treated Cast Carbon Moly Alloy Steel
Patented (Additional Patents Pending)



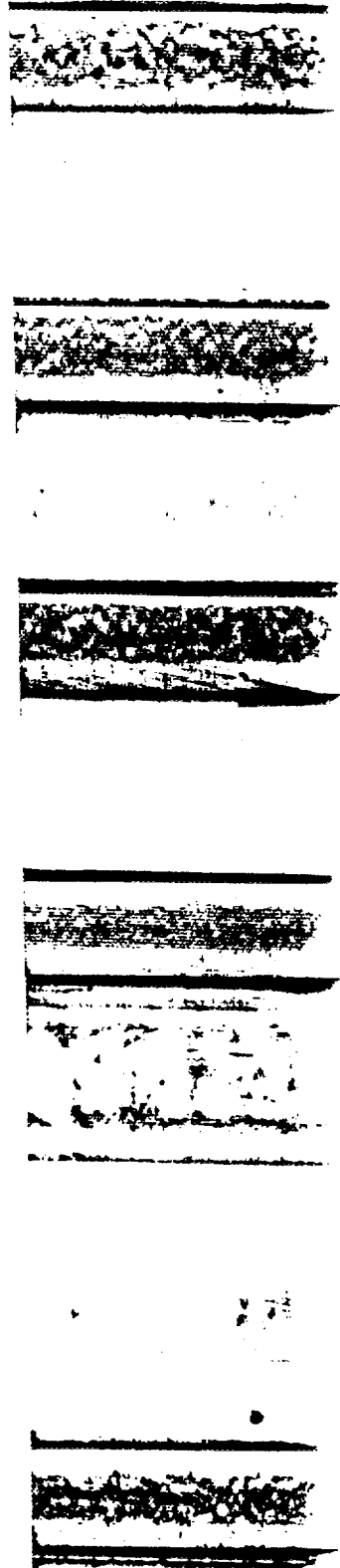
FLANGED



"FLANGNER"



WELDING NECK



"Flangnek" Standard Flange Facing

Cast Steel		Range	
8" to 14"		150 A.S.A.	230 psi Gauge C.W.P.
8" to 14"		300 A.S.A.	600 psi Gauge C.W.P.
8" to 12"		600 A.S.A.	1200 psi Gauge C.W.P.
8" to 12"	*	900 A.S.A.	1800 psi Gauge C.W.P.
8"	* Carbon Steel	1500 A.S.A.	3000 psi Gauge C.W.P.
16"	*	150 A.S.A.	230 psi Gauge C.W.P.
16"	*	300 A.S.A.	600 psi Gauge C.W.P.
16"	*	600 A.S.A.	1200 psi Gauge C.W.P.
20" to 24"	*	150 A.S.A.	230 psi Gauge C.W.P.
20" to 24"	*	300 A.S.A.	600 psi Gauge C.W.P.
20" to 24"	*	600 A.S.A.	1200 psi Gauge C.W.P.

"Flangnek" Ring-Joint Flange Facing

8" to 12"		600 A.S.A.	1440 psi Gauge C.W.P.
8" to 12"	*	900 A.S.A.	2160 psi Gauge C.W.P.
8"	* Carbon Steel	1500 A.S.A.	3600 psi Gauge C.W.P.
16"	*	600 A.S.A.	1440 psi Gauge C.W.P.
20" to 24"	*	600 A.S.A.	1440 psi Gauge C.W.P.

Welding Neck Ends

8" to 12"		600 A.S.A.	1440 psi Gauge C.W.P.
8" to 12"	*	900 A.S.A.	2160 psi Gauge C.W.P.
8"	* Carbon Steel	1500 A.S.A.	3600 psi Gauge C.W.P.
16"	*	600 A.S.A.	1440 psi Gauge C.W.P.
20" to 24"		300 A.S.A.	720 psi Gauge C.W.P.
20" to 24"		600 A.S.A.	1440 psi Gauge C.W.P.

* Covered only when measurement meets A.G.A. Recommendations.

Application: The fitting may be used as a component part of an orifice metering unit in the measurement of manufactured, natural, and petroleum gases, or mixtures thereof.

Description: The design provides a fast, safe and extremely simple method of changing orifice plates. Operation of the fitting requires that the line be shut down or the fitting by-passed. The orifice plate carrier is raised and lowered by rack and pinion mechanism, requiring but a few turns of the speed wrench. Orifice plate bore is concentric with line I.D. when plate carrier is seated in fitting. No adjustment is required. Fitting may be used in vertical or horizontal position.

R. W. MacLean
 R. W. MacLean,
 Director,
 Standards Branch.

E. F. Power
 E. F. Power,
 Assistant Director (E&G),
 Standards Branch.

Ref: A-544B

