

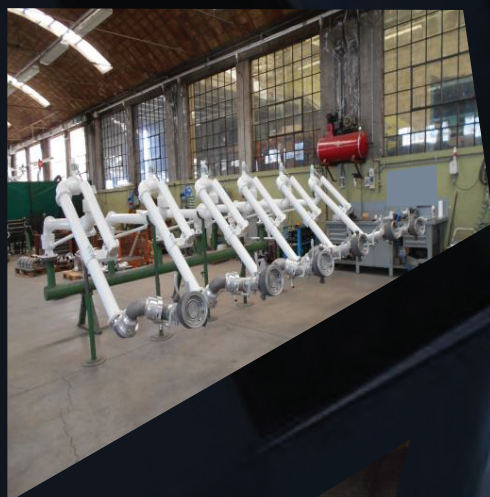
Officine Meccaniche Cavourresi S.p.A.



We empower loading

Liquid Transfer Systems

Land Loading Arms



2018 Catalogue

Certificate of Approval

This is to certify that the Management System of:

Officine Meccaniche Cavourresi S.p.A.

Via Saluzzo, 78, 10061 Cavour - TO, Italy

has been approved by LRQA to the following standards:

ISO 9001:2015



Gilles Bessiere - Area Technical Manager

Issued By: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

Current Issue Date: 1 August 2017
Expiry Date: 27 September 2019
Certificate Identity Number: 10057465

Original Approvals:
ISO 9001 – 28 September 2001

Approval Number(s): ISO 9001 – 0042852

The scope of this approval is applicable to:
Design and manufacturing of fluid transfer systems intended for petrochemical industry.



001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Issued By: Lloyd's Register Quality Assurance Italy Srl, Via Cadorna, 69 20090 Vimodrone Italy for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Our Quality Control System according to EN ISO 9001 has been widely tested throughout the years with continuous updates to the production cycle, the final checks and tests and, consequently, to the quality manual and procedures. For this reason, on September 2001, we have obtained the approval from **LLOYD'S REGISTER QUALITY ASSURANCE**

Single range floating suction unit 2249



N. Description

- 1 Swivel joint
- 2 Swing joint tube
- 3 Final elbow with baffle plate
- 4 Floats
- 5 Inspection rope
- 6 Support foot

Dwg/Mod

4044 – 2175/SS

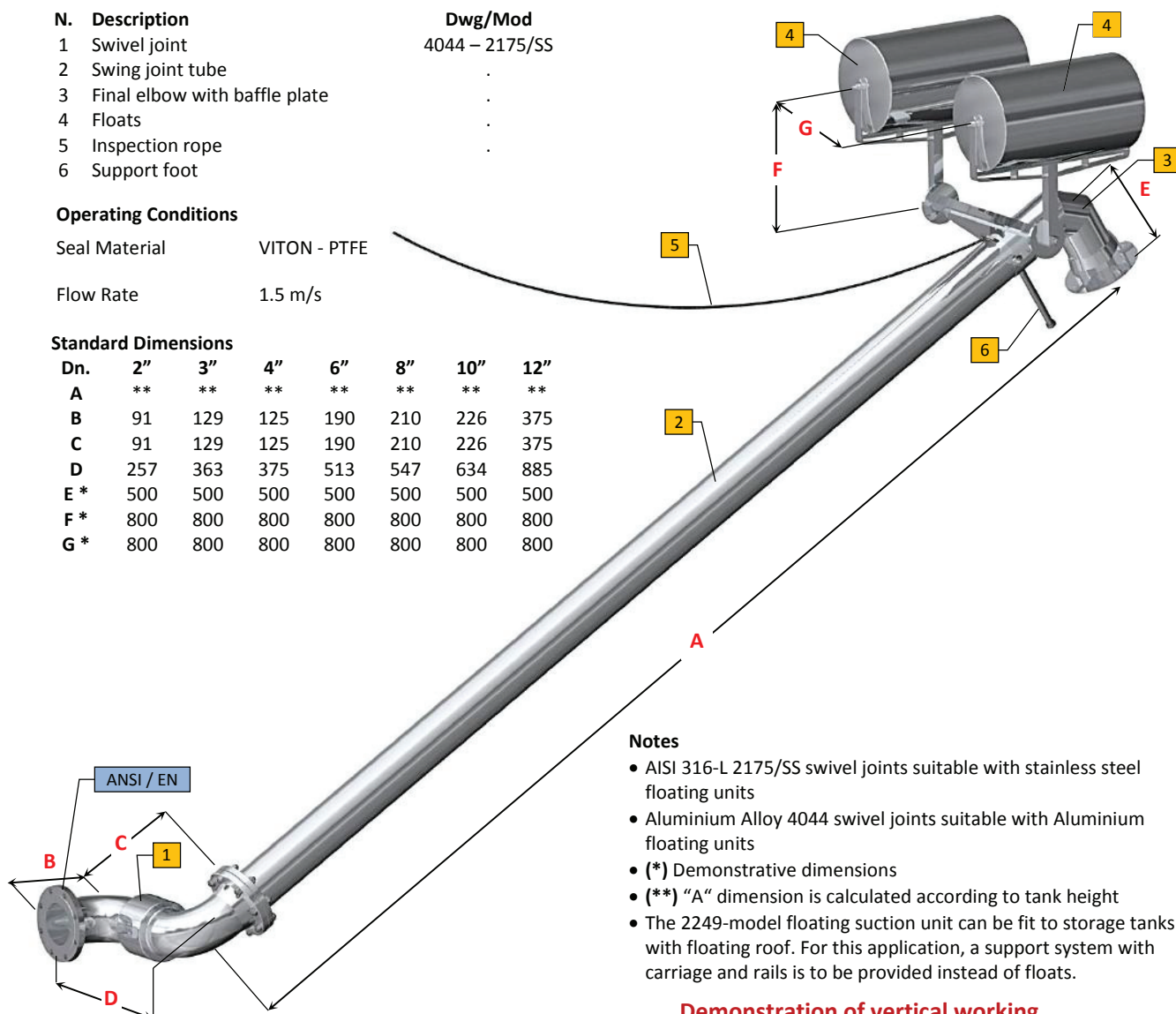
Operating Conditions

Seal Material VITON - PTFE

Flow Rate 1.5 m/s

Standard Dimensions

Dn.	2"	3"	4"	6"	8"	10"	12"
A	**	**	**	**	**	**	**
B	91	129	125	190	210	226	375
C	91	129	125	190	210	226	375
D	257	363	375	513	547	634	885
E *	500	500	500	500	500	500	500
F *	800	800	800	800	800	800	800
G *	800	800	800	800	800	800	800



Notes

- AISI 316-L 2175/SS swivel joints suitable with stainless steel floating units
- Aluminium Alloy 4044 swivel joints suitable with Aluminium floating units
- (*) Demonstrative dimensions
- (**) "A" dimension is calculated according to tank height
- The 2249-model floating suction unit can be fit to storage tanks with floating roof. For this application, a support system with carriage and rails is to be provided instead of floats.

Demonstration of vertical working

The floating suction unit 2249 Model operates into horizontal and vertical storage tanks of large diameter and is designed to suck the clean product just below the product surface. This is in order to prevent the contamination of the product with sediments which settle on the bottom of the tank. Such a position of the suction surface is guaranteed by the presence of floating units, properly sized according to the weight of the arm and of the stored product.





Double range floating suction unit 2302

N.	Description	Dwg/Mod
1	Swivel joint	4044 – 2175/SS
2	Primary swing joint tube	.
3	Swivel joint	4044 – 2175/SS
4	Secondary swing joint tube	.
5	Final elbow with baffle plate	.
6	Floats	.
7	Restraining cable	.
8	Support foot	.
9	Inspection rope	.

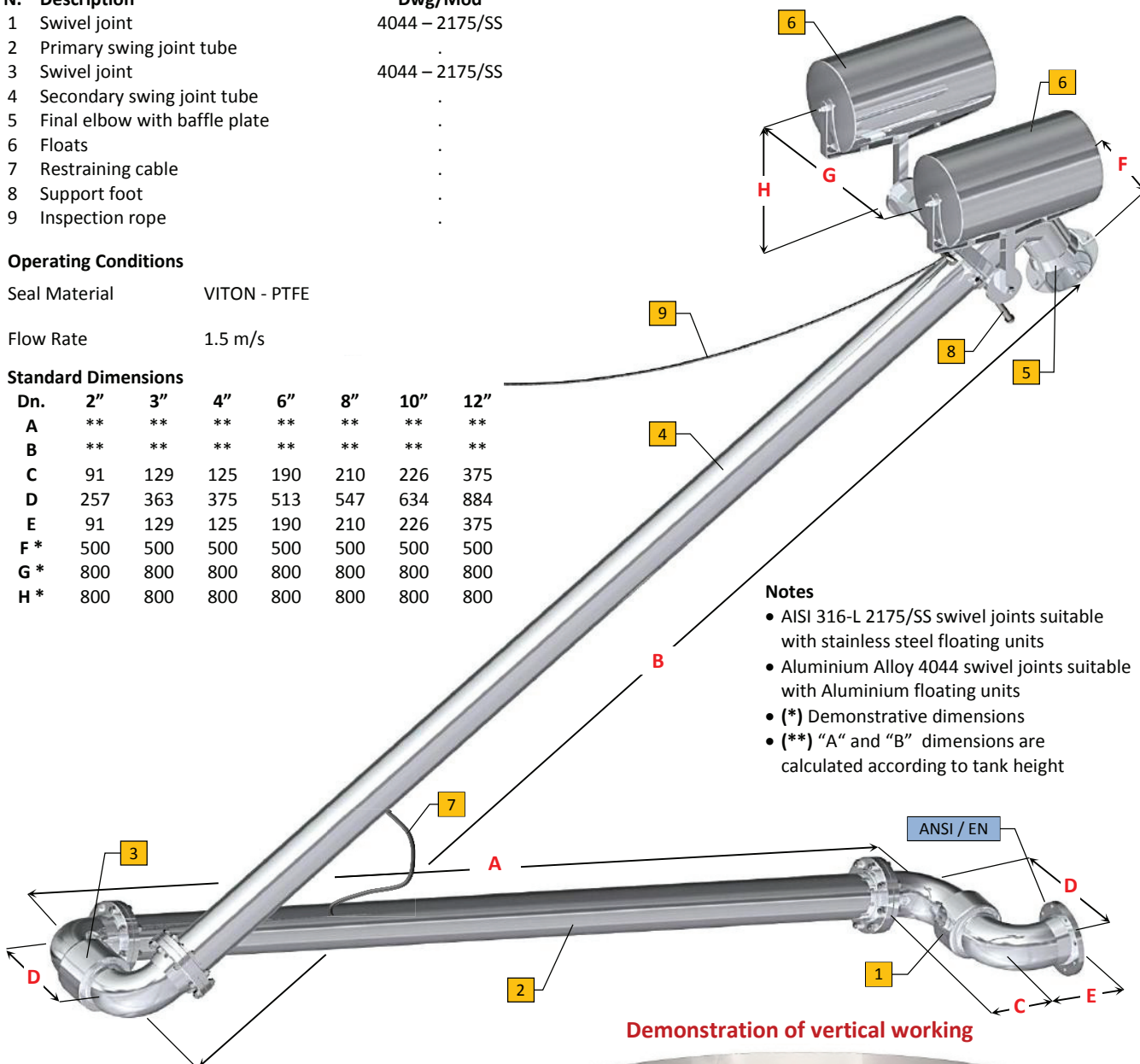
Operating Conditions

Seal Material VITON - PTFE

Flow Rate 1.5 m/s

Standard Dimensions

Dn.	2"	3"	4"	6"	8"	10"	12"
A	**	**	**	**	**	**	**
B	**	**	**	**	**	**	**
C	91	129	125	190	210	226	375
D	257	363	375	513	547	634	884
E	91	129	125	190	210	226	375
F *	500	500	500	500	500	500	500
G *	800	800	800	800	800	800	800
H *	800	800	800	800	800	800	800



Notes

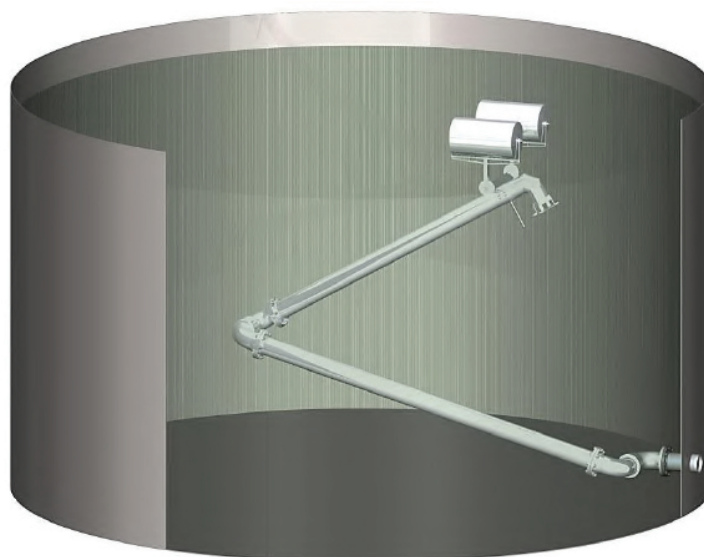
- AISI 316-L 2175/SS swivel joints suitable with stainless steel floating units
- Aluminium Alloy 4044 swivel joints suitable with Aluminium floating units
- (*) Demonstrative dimensions
- (**) "A" and "B" dimensions are calculated according to tank height

Demonstration of vertical working

The floating suction unit 2302 Model operates into vertical storage tanks of a certain height, for which you cannot install a single section unit. As for the 2249 Model, 2302 Model is designed to suck the clean product just below the product surface. This is in order to prevent the contamination of the product with sediments which settle on the bottom of the tank. Such a position of the suction surface is guaranteed by the presence of floating units, properly sized according to the weight of the arm and of the stored product.

Notes

- The 2302 model floating suction unit can be fit to storage tanks with floating roof. For this application, a support system with carriage and rails is to be provided instead of floats.



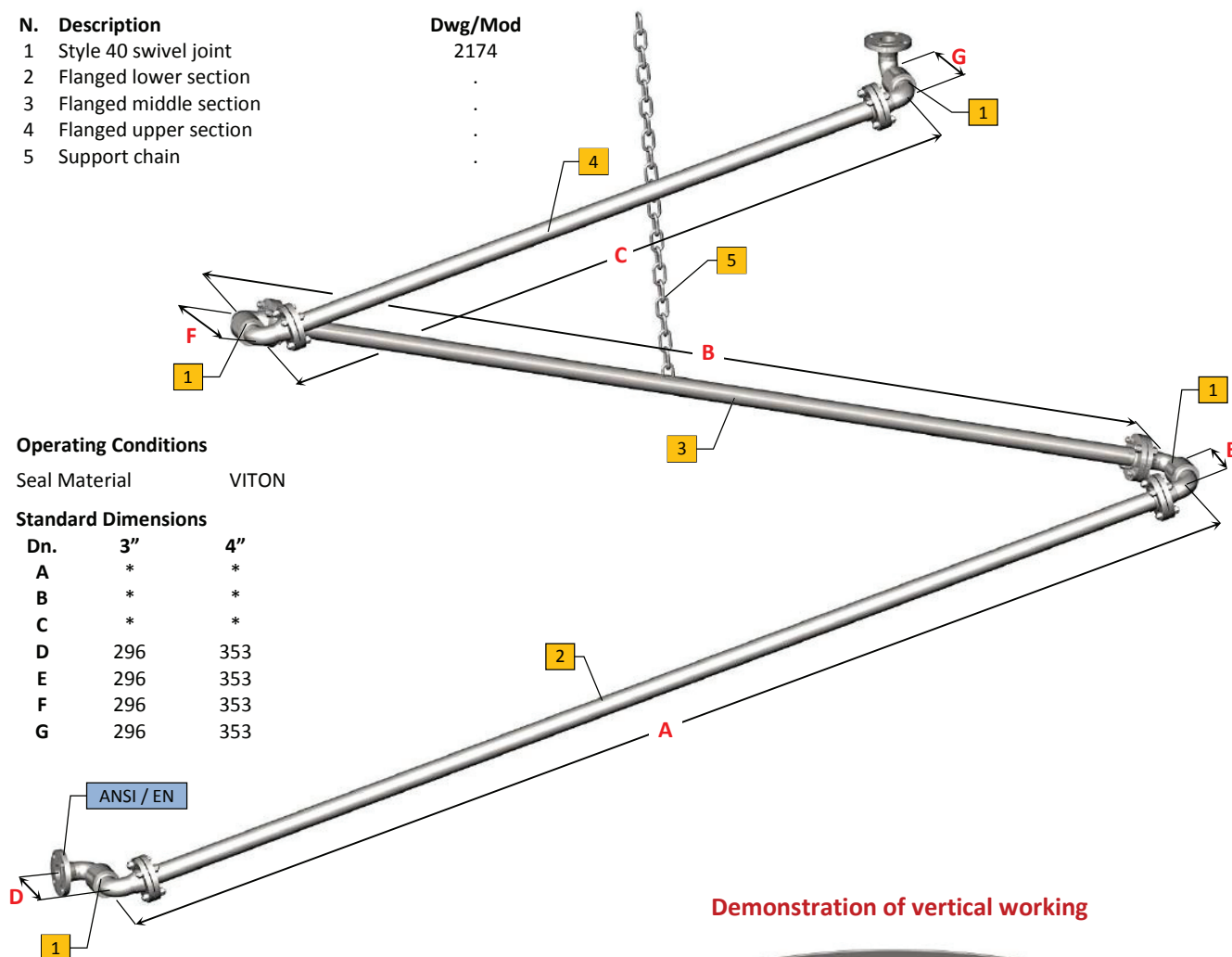
Articulated drainage unit for floating roof tanks



N. Description

- 1 Style 40 swivel joint
- 2 Flanged lower section
- 3 Flanged middle section
- 4 Flanged upper section
- 5 Support chain

Dwg/Mod
2174



Operating Conditions

Seal Material VITON

Standard Dimensions

Dn.	3"	4"
A	*	*
B	*	*
C	*	*
D	296	353
E	296	353
F	296	353
G	296	353

Notes

- (**) "A", "B" and "C" dimensions are calculated according to the tank height

The articulated drainage is installed inside floating roof storage tanks and has the function to drain the rainwater from the roof of the tank. The roof is designed with a slope converging on the center where there is a collection point with connection flange for the drainage unit. The drainage unit installed inside the tank follows the vertical movement of the roof.

Demonstration of vertical working

