



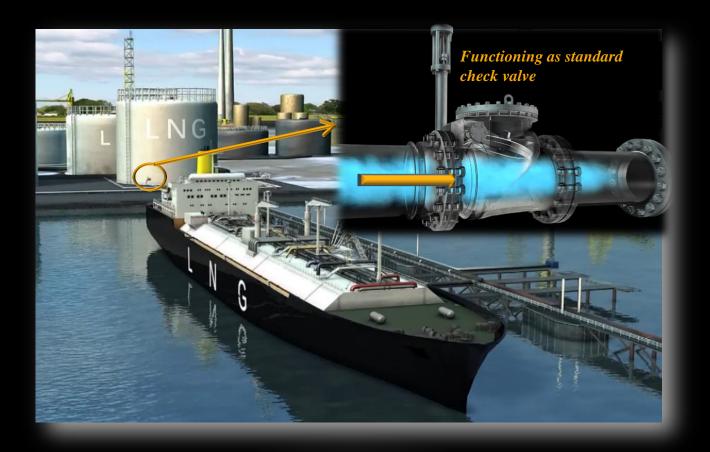


CRYOGENIC MANOEUVRABLE SWING CHECK VALVE



YOUR SOLUTION FOR SHIP TO SHORE & SHORE/SHIP TO SHIP TRANSFERS:

1-SHIP UNLOADING TO LNG TERMINAL:



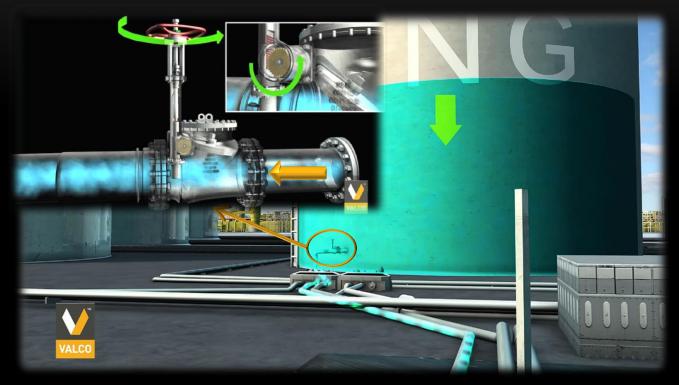






2- LNG TERMINAL/SHIP UNLOADING TO SHIP:

-The Check valve must be locked open before the pump is put into service, with pressure and fluid free in the line.











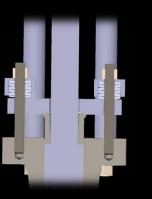


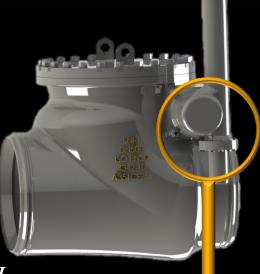
DESIGN ANSWER:



Cryogenic Extension:





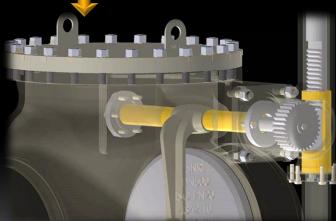




Sealing Face 316L Available in Stellite/Stellite















ALREADY AVAILABLE:

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23	Manchette Pup pieces	Acier inox X5 CrNiMo 17 11 2 Stainless steel A312 Cr316/316L	CLOSED (N 'AUTO' MODE
22	Volant Hand wheel	Fonte FGS 400-15 Cast iron A 536 Gr 60-40-18	22
21	Ecrou de tige Stem nut	CuAl9Ni3Fe2 Aluminium bronze	21
20	Colonnette Column	Acier inox X2 CrNiMo 17 11 2 Stainless steel A 182 F316L	
19	Tige Stem	Acier inox X2 CrNiMo 17 11 2 Stainless steel A 182 F316L	19
18	Arret de tige Stem retainer	Acier inox X2 CrNiMo 17 11 2 Stainless steel A 182 F316L	18
17	Fouloir <i>Cland</i>	Acier inox X2 CrNiMo 17 11 2 Stainless steel A 182 F316L	17
16	Garnitures Packing	Graphite Craphite	16
15	Bague de fond Ring	CuAl9Ni3Fe2 Aluminium bronze	15
			13
13	Extension cryo Extension	Acier inox Stainless steel A 351 Cr CF3M	
			2 2 3
	-		
8	Levier Hinge lever	Acier inox Stainless steel A 351 Gr CF3M	
7	Axe d'articulation Hinge pin	Acier inox X6CRNI MOVB2515 Stainless steel A 638 Cr 660	
6	Obturateur / Portage Disc / Disc face	Acier inox X5 CrNiMo17.11.2/ Stellite Stainless steel A 182 F316 / Stellite	
5	Siège / Portage Seat / Seating face	Acier inox X2 CrNiMo17.11.2/ Stellite Stainless steel A 182 F316L / Stellite	8
4	Boulonnerie Bolting Joint de bouchon	Acier inox Z 6 CND 17-11 Stainless steel A 194 Cr 8M / A 320 Cr 88M Inox / Graphite	
3a	Plug gasket	Stainless steel / Graphite	
3	Joint corps / couvercle Bonnet gasket Couvercle	Spiralé Inox/Graphite Sp. Wound 316SS/Craphite Acier inox X2 CrNiMo 17 11 2	Thursday of the second of the
2	Cover Corps	Stainless steel A 182 F316L Acier inox	5
1 REP	Body DESIGNATION	Stainless steel A 351 Cr CF3M MATIERE (A.F.N.O.R)	518
MARK	DESIGNATION DESIGNATION	MATERIAL (A.S.T.M/A.I.S.I)	23
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50 YEARS OF LNG TRACK RECORD

1964 -1st LNG Carrier built at Le Havre- Jules Vernes 1970's -SNRI involved in French 1980's LNG Terminal Montoir & Tenaga Project of MISC 1990's -12 LNGc contracts in 1 Year 2004 in South Korea & Japan 2006 -SAKHALIN, FPSO PAZFLOR 2008 & 38 LNGc contracts 2010 -Obtained 18 LNGc contracts, including all FSRUs & SHELL 2012 Prelude FLNG

-SNRI provided Cryogenic valves to French LNG Terminal FOS & Le TELLIER LNGc built at La Ciotat

-Awarded of 14 LNGc project worldwide (including MISC & NGSCO vessels)

-Yemen & Nigeria LNG Terminal + 18 LNGc contracts

-21 LNGc contracts including Nakilat's Q-Max & Q-Flex



2014

Celebrating more than 300 LNGc contracts in 50 Years







<u>Pioneer</u>

MAIN REFERENCES

SNRI IS PROUD TO HAVE SUPPLIED TO THE LINE OF:

Samsung Heavy Industries Hyundaï Heavy Industries Daewoo Shipbuilding & Marine

Engineering

Hanjin Heavy Industries

Air Liquide

GDF Suez

Tractebel

Kawasaki Heavy Industries

Mitsubishi Heavy Industries

Imabari Shipbuilding

Japan Marine United Corp.

Mitsui Engineering & Shipbuilding

Hudong Zhonghua



CE MARKING

API6A, 6D, API 600

QUALITY CERTIFICATION

FIRE SAFE DESIGN

GOST

DNV

CLASS NK

LLOYD'S REGISTER

BUREAU VERITAS

ABS





















API 6A, API 6D, API 600 ASME B31.1, B31.3, B16.5 B16.10, B16.25, B16.34 Section VIII, Section IX ASTM as per client's request MSS SP25, SP55, SP61, SP82













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The Group has three operational companies in France (SNRI SAS, Malbranque SAS and Valco Valves Services SAS). The Group revenue in 2013 was 45 M Euro for 240 employees.

Valco Group has valves and related products and services for applications worldwide within Marine sector, Oil & Gas, and Energy & Industry.

Valco Group's product portofolio contains strong and well established valve brands from in-hpuse production, as well as provision of third party products.

Our experience has demonstrated our capability to handle the combination of high pressure and very low temperatures. We are also involved in providing products which covers sour services as well as any type of applications where product quality matters.



Worlwide