

Technical data sheet

FLEXWELL® CRYO PIPE

Flexible pipes for cryogenic systems



20.11.2025

GENERAL PRODUCT INFORMATION

The FLEXWELL® CRYO PIPE is a flexible, double-walled, vacuum-insulated pipe system for transporting all cryogenic liquefied gases. The pipe system consists of:

- FLEXWELL® CRYO PIPE – Pipe
- FLEXWELL® CRYO PIPE – Connection
- FLEXWELL® CRYO PIPE – Accessories

Operating temperature

At 30 bar (DN 15 – DN 80)

–200 °C up to +50 °C

Lower temperatures on request

Operating pressure:

DN 15 – DN 80

At temperatures below –200 °C

max. 30 bar

max. pressure on request

STRUCTURE



- 1 corrugated pipe, stainless steel
- 2 vacuum superinsulation layer including spacer
- 3 corrugated pipe, stainless steel
- 4 flat steel armoring, stainless steel
- 5 protective jacket, PE-LD

APPLICATIONS

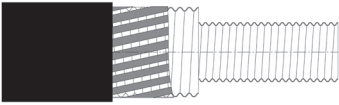
Transport of cryogenic liquefied gases such as

- Liquid nitrogen LN₂
- Liquid argon LAr
- Liquid oxygen LOX
- Liquid hydrogen LH₂
- Liquid helium LHe
- Liquefied natural gas LN

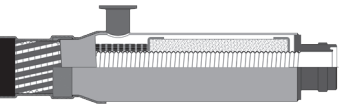
SPECIAL FEATURES

- High tensile strength for secure installation
- Minimised heat inleak thanks to high-vacuum insulation
- Robust construction for cryogenic applications


PRODUCT OVERVIEW

Design	Type	Nominal FCP		Pressure diameter bar	Connection connection type mm	Material no.	Worksheet
		DN	NPS				
	16/ 50	15	½"	30	33.7 x 2.60	Carrier 1.4404/AISI 316L	FCP 2.20.01
	22/ 50	20	¾"	30	42.4 x 2.60	Exterior 1.4404 or	
	30/ 61	25	1"	30	48.3 x 2.65	1.4301/AISI 316L	
	39/ 74	32	1¼"	30	60.3 x 2.90	Reinforcement 1.4301/AISI 316L	
	48/ 94	40	1½"	30	76.1 x 3.05		
	60 / 94	50	2"	30	88.9 x 3.20		
	98/155	80	3"	30	139.7 x 4.00		

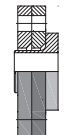

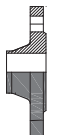





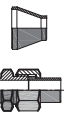



Other nominal diameters and pressure ratings are available on request.

	Long connector with vacuum pump connecting piece	16/ 50	15	½"	30	33.7 x 2.60	1.4404/AISI 316L or	FCP 2.30.01
		22/ 50	20	¾"	30	42.4 x 2.60	1.457/AISI 316Ti	
		30/ 61	25	1"	30	48.3 x 2.65		
		39/ 74	32	1¼"	30	60.3 x 2.90		
		48/ 94	40	1½"	30	76.1 x 3.05		
		60/ 94	50	2"	30	88.9 x 3.20		
		98/155	80	3"	30	139.7 x 4.00		

All long connectors are also available with leak detection (LD) and vacuum measurement.

	Short connector	16/ 50	15	½"	30	33.7 x 2.60	1.4404/AISI 316L or	FCP 2.30.01
		22/ 50	20	¾"	30	42.4 x 2.60	1.457/AISI 316Ti	
		30/ 61	25	1"	30	48.3 x 2.65		
		39/ 74	32	1¼"	30	60.3 x 2.90		
		48/ 94	40	1½"	30	76.1 x 3.05		
		60/ 94	50	2"	30	88.9 x 3.20		
		98/155	80	3"	30	139.7 x 4.00		

Customer interface

	Collar with split loose flange acc. to DIN EN 1092 type 4 and 34		Collar and loose flange acc. to DIN EN 1092 type 4 and 34		DIN welding neck flange acc. to DIN EN 1092 type 11		Concentric reduction acc. to EN 10253 type B		ANSI collar with split loose flange acc. to ANSI 16.9 type A
	ANSI collar with loose flange acc. to ANSI 16.9 type A		ANSI welding neck flange acc. to ANSI B16.5		Concentric reduction acc. to ANSI B16.9		Cryogenic pipe fitting with counterpart		
	Johnston coupling piece		T-piece		Mechanical degassing				

Further information can be found in the catalogue.