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四川良川机械设备有限公司
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www.cryogeniccontrolvalve.com



LIANGCHUAN
VALVE



良川閥門

四川良川机械设备有限公司
Sichuan Liangchuan Mechanical Equipment Co., LTD

2023



低温阀门 / 工业阀门 / 安全阀
cryogenic valve / industrial valve / safety valve



四川良川机械设备有限公司
SICHUAN LIANGCHUAN MECHANICAL EQUIPMENT CO., LTD



良川阀门

ENTERPRISE BRIEF INTRODUCTION 企业简介

四川良川机械设备有限公司是一家拥有多项国家新技术专利的科技型企业，并被评为国家高新技术企业。本公司采用先进技术与生产工艺，整合多方资源，深化科技力量，以优质的产品与服务赢得广大客户的信任与支持。

公司致力于深冷阀门、管道阀门及气体设备的研究、开发、制造、销售，低温液体储槽、槽车、低温容器的销售、服务。生产高、精、尖产品，深受客户信赖。产品广泛应用于低温液体储运、空分、气体、食品、制药、石油、化工、冶金等行业。

Si Chuan Liangchuan Mechanical Equipment Co., Ltd. is a high-tech enterprise with a number of national new technology patents. Our company adopts advanced technology and production technology, integrates multi-party resources, deepens the strength of science and technology, and wins the trust and support of customers with high-quality products and services.

Our company is committed to the research, development, manufacturing, sales of cryogenic valves, pipeline valves and gas equipments(such as cryogenic liquid storage tanks,tank trucks,cryogenic container). We produce high-precision products, which are trusted by customers. Products are widely used in cryogenic liquid storage and transportation, air separation, gas, food, pharmaceutical, petroleum, chemical, metallurgical and other industries.





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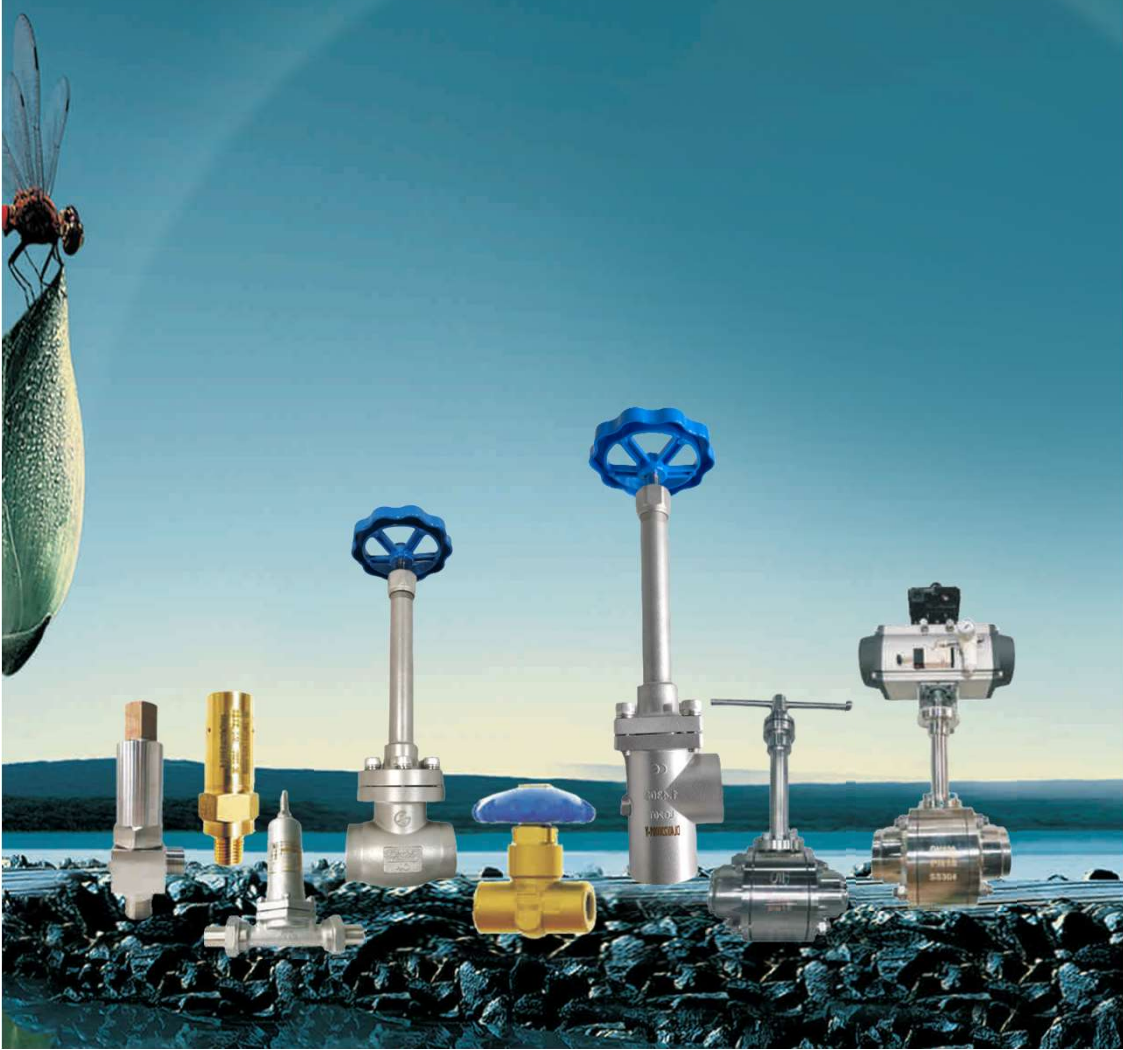
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» 深化科技力量·创造卓越品质

“深化科技力量，创造卓越品质”，科技与品质完美的结合。采用先进的数控加工设备及检验设备，以高精度标准，生产各类产品。除了使用专用设备，良川以专业精神和专注态度，从选材、生产、检验，一直到售后服务，均严格按照优化方案执行。

公司秉承科学、严谨、规范、标准化的务实作风，建立完善特种设备制造管理体系和ISO9001国际质量体系并进行认证，组建严格完善的检测机构，确保产品质量均符合国家相关标准，行业标准和企业的标准。公司有以下各种各样的证书，各种阀门的专利证书，质量诚信企业证书，特种设备制造许可证，国家高新技术企业证书，CE证书等。

良川人以专业、专心、专注的精神，以卓越的产品品质和良好的服务体系，与您携手，共创辉煌。

“Deepening the power of science and technology, creating superior quality”. Our products are the perfect combination of technology and quality. Using advanced CNC machining equipment and inspection equipment, we produce various products with high precision standards. In addition to the use of professional equipment, Liangchuan’s professionalism and dedication, from material selection, production, inspection, to after-sales service, are strictly in accordance with the optimization program.

Adhering to the scientific, rigorous, standardized, standardized pragmatic style, our company establishes and improves the special equipment manufacturing management system and ISO 9001 international quality system. We have established a strict and perfect testing organization to ensure that the product quality is in line with relevant national standards, industry standards and corporate standards. Our company has the following various certificates: patent certificate for various valves, certificate of quality and integrity, special equipment manufacturing license, national high-tech enterprise certificate, CE certificate, etc.

With the professionalism, concentration and dedication, Liangchuan people will work with you to create brilliance with excellent product quality and good service system.

DEVELOPMENT COURSE 发展历程

良川阀门

www.cryogeniccontrolvalve.com

携手同行 共创未来

PROVIDE HIGH QUALITY PRODUCTS

In order to provide high quality products, company equipped with advanced testing equipment and perfect detection means, set up a strict quality management team, from the raw material testing, quality control of production process, product and application.



提供高品质产品

公司配置了先进的检测设备以及完善的检测手段，建立了一支严格要求的品质管理队伍，实现了从原材料检测，生产过程检测，产品及应用过程的质量控制。



科技创新 品质卓越 Innovation Excellent Quality



荣誉 Company 企业誉 Honor

公司秉承科学、严谨、规范、标准化的务实作风，建立完善特种设备制造管理体系和 ISO 9001 国际质量体系并进行认证，组建严格完善的检测机构，确保产品质量均符合国家相关标准、行业标准和企业标准。公司已取得以下资质证书：各种阀门的专利证书，质量诚信企业证书，特种设备制造许可证，国家高新技术企业证书，CE 证书等。

良川人以专业、专心、专注的精神，以卓越的产品品质和良好的服务体系，与您携手，共创辉煌。

Adhering to the scientific, rigorous, standardized, standardized pragmatic style, our company establishes and improves the special equipment manufacturing management system and ISO 9001 international quality system. We have established a strict and perfect testing organization to ensure that the product quality is in line with relevant national standards, industry standards and corporate standards. Our company has acquired the following qualification certificates: patent certificate for various valves, certificate of quality and integrity, special equipment manufacturing license, national high-tech enterprise certificate, CE certificate, etc.

With the professionalism, concentration and dedication, Liangchuan people will work with you to create brilliance with excellent product quality and good service system.





专业制造 实力认证

13年生产经验 致力打造阀门先锋企业

我们从实际出发，坚持质量把控
通过了多项国内外认证、多个专利技术
We proceed from reality and insist on quality control.
We passed a number of domestic and foreign
certifications, a number of patented technologies.



Cryogenic Globe Valve

General Information

Globe valves are used in cryogenic pipeline system widely with following features: compact valve body. Reliable sealing performance, low pressure lose, good flow rate and easy to handle. etc.

Storage and Maintenance

- 1.Cleaning pipeline before installation.
- 2.Flow direction marked on valve should be the same as actual flow direction.
- 3.After pipeline installation finished, all valves should be opened, then clean the pipeline system to ensure no impurities.
- 4.It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing

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DJ61F-40P Globe Valve (Short Stem-Type A)

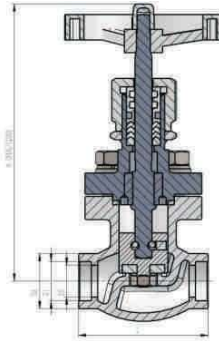
Technical Parameters

Nominal Diameter: 10~100mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Butten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE



CODE	SIZE(mm)							
	DN	D0	D1	D2	H OPEN	H CLOSE	L	B
DJ61F-40P	10	12	15	22	134	124	61	6
DJ61F-40P	15	15	19	26	134	124	61	6
DJ61F-40P	20	23	26	34	163	150	81	6
DJ61F-40P	25	26	33	39	163	150	81	6
DJ61F-40P	32	35	39	46	201	186	102	9
DJ61F-40P	40	42	46	52	204	186	102	10
DJ61F-40P	50	54	58	66	230	209	127	10
DJ61F-40P	65	68	77	85	244	224	150	10
DJ61F-40P	80	84	89	100	337	300	180	10
DJ61F-40P	100	358	325	200	15	104	109	120

DJ61F-40P Globe Valve (Short Stem-Type C)

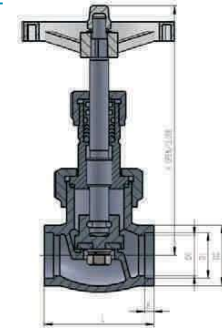
Technical Parameters

Nominal Diameter: 10~50mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Butten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE



CODE	SIZE(mm)							
	DN	D0	D1	D2	H/OPEN	H/CLOSE	L	B
DJ61F-40P	10	12	15	22	127	116	61	6
DJ61F-40P	15	15	19	26	127	116	61	6
DJ61F-40P	20	23	26	34	156	143	81	6
DJ61F-40P	25	26	33	39	156	143	81	6
DJ61F-40P	32	35	39	46	9	35	39	46
DJ61F-40P	40	42	46	52	9	42	46	52

DJ61F-50P Globe Valve (Short Stem-Type D)

Technical Parameters

Nominal Diameter: 10~50mm

Nominal Pressure: 5.0MPa

Applicable Medium: LNG、LO₂、LN₂、LAr

Applicable Temperature: -196°C~+80°C

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, Thread available)



Materials

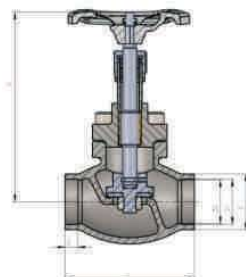
Body: CF8/CF3

Bonnet: SS304/SS316

Disc: 06Cr19Ni10+PCTFE

Stem: 06Cr19Ni10

Seal Ring: PCTFE



CODE	SIZE (mm)						
	DN	D	D1	D2	B	L	H
DJ61F-50P	10	20	12	10	6	70	124±1
DJ61F-50P	15	30	20.5	19	10	85	124±1
DJ61F-50P	20	35	25.5	22	13	100	150±1
DJ61F-50P	25	40.5	31	30.5	13	115	150±1
DJ61F-50P	32	50	38	36	13	115	186±1
DJ61F-50P	40	56	45.5	44	13	130	186±1
DJ61F-50P	50	68	60	58	16	155	209±1
DJ61F-50P	65	91	78	70	16	188	224±1
DJ61F-50P	80	106	90	84	16	225	300±1
DJ61F-50P	100	135	108	104	16	259	325±1

DJ61F-50P Globe Valve (Short Stem-Type B)

Technical Parameters

Nominal Diameter: 10~100mm

Nominal Pressure: 5.0MPa

Applicable Medium: LNG、LO₂、LN₂、LAr

Applicable Temperature: -196°C~+80°C

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, Thread available)



Materials

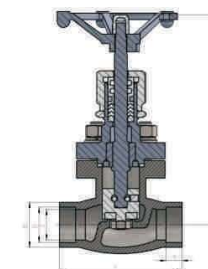
Body: CF8/CF3

Bonnet: SS304/SS316

Disc: 06Cr19Ni10+PCTFE

Stem: 06Cr19Ni10

Seal Ring: PCTFE



CODE	SIZE(mm)						
	DN	D	D1	D2	B	L	H
DJ61F-50P	65	70	78	91	16	188	224±1
DJ61F-50P	80	84	90	106	16	225	300±1
DJ61F-50P	100	104	108	135	16	258	325±1

DJ61F-40P Cryogenic Globe Valve (Long Stem-Type A)

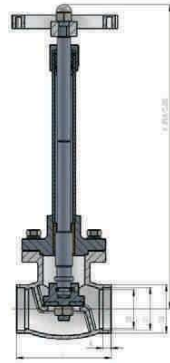
Technical Parameters

Nominal Diameter: 10~100mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Batten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE



CODE	SIZE(mm)							
	DN	D0	D1	D2	H OPEN	H CLOSE	L	B
DJ61F-40P	10	12	15	22	255	245	61	6
DJ61F-40P	15	15	19	26	255	245	61	6
DJ61F-40P	20	23	26	34	302	289	81	6
DJ61F-40P	25	26	33	39	302	289	81	6
DJ61F-40P	32	35	39	46	355	340	102	9
DJ61F-40P	40	42	46	52	355	340	102	10
DJ61F-40P	50	54	58	66	391	370	127	10
DJ61F-40P	65	68	77	85	435	413	150	10
DJ61F-40P	80	84	89	100	486	516	182	10
DJ61F-40P	100	104	109	121	564	531	200	15

DJ61F-40P Cryogenic Globe Valve (Long Stem-Type C)

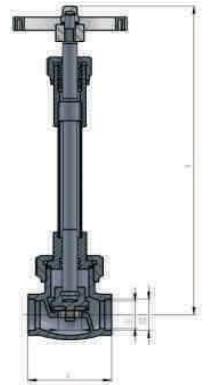
Technical Parameters

Nominal Diameter: 10~100mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Batten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE



CODE	SIZE (mm)							
	DN	D0	D1	D2	H OPEN	H CLOSE	L	b
DJ61F-40P	10	13	12	15	254	245	61	6
DJ61F-40P	15	13	15	19	255	246	61	6
DJ61F-40P	20	20	23	26	301	289	81	6
DJ61F-40P	25	20	26	33	301	289	81	6
DJ61F-40P	32	34	35	39	356	341	102	9
DJ61F-40P	40	34	42	46	356	341	102	9

DJ61F-50P Cryogenic Globe Valve (Long Stem-Type D)
Technical Parameters

Nominal Diameter: 10~100mm

Nominal Pressure: 5.0MPa

 Applicable Medium: LNG、LO₂、LN₂、LAr

Applicable Temperature: -196℃~+80℃

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, Thread available)


DJ61F-50P Cryogenic Globe Valve (Long Stem-Type B)
Technical Parameters

Nominal Diameter: 10~100mm

Nominal Pressure: 5.0MPa

 Applicable Medium: LNG、LO₂、LN₂、LAr

Applicable Temperature: -196℃~+80℃

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, Thread available)


Materials

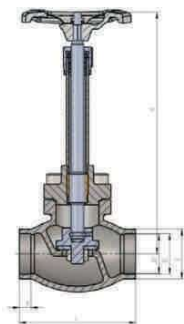
Body: CF8/CF3

Bonnet: SS304/SS316

Disc: 06Cr19Ni10+PCTFE

Stem: 06Cr19Ni10

Seal Ring: PCTFE


Materials

Body: CF8/CF3

Bonnet: SS304/SS316

Disc: 06Cr19Ni10+PCTFE

Stem: 06Cr19Ni10

Seal Ring: PCTFE



CODE	SIZE (mm)						
	DN	D	D1	D2	B	L	H
DJ61F-50P	10	20	12	10	6	70	270±2
DJ61F-50P	15	30	20.5	19	10	85	270±2
DJ61F-50P	20	35	25.5	22	13	100	270±2
DJ61F-50P	25	40.5	31	30.5	13	115	270±2
DJ61F-50P	32	50	38	36	13	115	270±2
DJ61F-50P	40	56	45.5	44	13	130	270±2
DJ61F-50P	50	68	60	58	16	155	270±2

CODE	SIZE(mm)						
	DN	D	D1	D2	B	L	H
DJ61F-50P	65	70	78	91	16	188	413±2
DJ61F-50P	85	84	90	106	16	225	516±2
DJ61F-50P	100	104	108	135	16	258	531±2

DJ64F-50P Cryogenic Globe Valve (Long Stem-Angle Type)

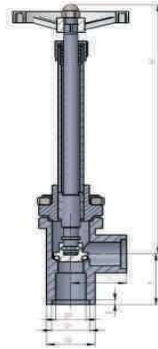
Technical Parameters

Nominal Diameter: 15~40mm
 Nominal Pressure: 5.0MPa
 Applicable Medium: LNG、LO₂、LN₂、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE



CODE	SIZE (mm)							
	DN	D0	D1	D2	L	H	H1	B
DJ64F-50P	15	17	20.5	30	48	48	235±2	5
DJ64F-50P	25	26	32.5	42	48	56	275±2	5
DJ64F-50P	40	40	46	56	50	62	332±2	10

DJ61F-320P Cryogenic High Pressure Globe Valve

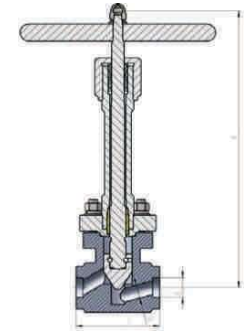
Technical Parameters

Nominal Diameter: 10~50mm
 Nominal Pressure: 32.0MPa
 Applicable Medium: LNG、LO₂、LN₂、LAr
 Applicable Temperature: -196°C~+80°C
 End Connection: Socket Welding



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+Hard Alloy
 Stem: 06Cr19Ni10

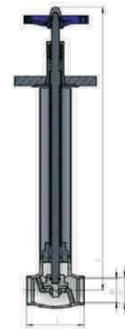


CODE	SIZE(mm)				
	DN	D	D1	L	H
DJ61F-320P	10	18	10	90	322±2
DJ61F-320P	15	22	12	90	332±2
DJ61F-320P	20	26	16	94	345±2
DJ61F-320P	25	33	20	94	345±2
DJ61F-320P	32	18	12	115	351±2
DJ61F-320P	40	22	12	115	351±2
DJ61F-320P	50	60	24	170	363±2

DBJ61F-40PH Cryogenic Globe Valve with Vacuum Jacket

Technical Parameters

Nominal Diameter: 10~50 mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding



Materials

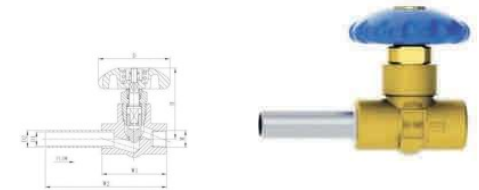
Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Stem: 06Cr19Ni10
 Seal Ring: PCTFE

CODE	SIZE (mm)				
	DN	D0	D1	L	H
DBJ61F-40PH	15	15	19	61	409±2
DBJ61F-40PH	25	26	33	81	490±2
DBJ61F-40PH	40	42	46	102	657±2
DBJ61F-40PH	50	54	58	127	686±2

Globe valve DJ10 series

Technical Parameters

Nominal Pressure: 4.0MPa
 Nominal Diameter: 10mm
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+85°C
 End Connection: Weld
 Body: Copper



型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions						
	D	H	W1	W2	M	D1	D2
DJ-10P	Φ70	70	64	114	NPT3/8	Φ13	Φ17
DJ-10P1	Φ70	70	64	151	NPT3/8	Φ13	Φ17
DJ-10P2	Φ70	70	64	91	NPT3/8	Φ13	Φ17
DJ-10P7	Φ70	70	64	264	NPT3/8	Φ13	Φ17
DJ-10P8	Φ70	70	64	124	NPT3/8	Φ13	Φ17

Globe valve DJ10 series

Technical Parameters

Nominal Pressure: 4.0MPa
 Nominal Diameter: 10mm
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+85°C
 End Connection: Weld
 Body: Copper

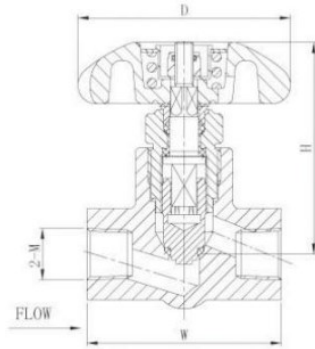


型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions					
	D	H	W1	W2	D1	D2
DJ-10P3	Φ70	70	27	118	Φ13	Φ17
DJ-10P5	Φ70	70	55	174	Φ13	Φ17
DJ-10P6	Φ70	70	87	238	Φ13	Φ17

Globe valve DJ10 series

Technical Parameters

Nominal Pressure: 4.0MPa
 Nominal Diameter: 10mm
 Applicable Medium: LNG、LO2、LN2、LAR
 Applicable Temperature: -196°C~+85°C
 End Connection: Weld
 Body: Copper



型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions			
	D	H	W	M
DJ-10P8	Φ70	70	64	NPT3/8
DJ-10PC	Φ70	70	64	NPT1/2

Pneumatically Emergency Shut off Valve

General Information

Emergency shut off function can be achieved by a spring piston actuator, which is driven by pneumatic pressure. This valve is suitable for shut off flows on cryogenic tanks, cryogenic transport trailers and cryogenic ISO tanks. This valve can shut off flows rapidly when emergency condition happens.

Storage and Maintenance

1. Cleaning pipeline before installation.
2. Flow direction marked on valve should be the same as actual flow direction.
3. Valves should be installed vertical to the ground.
4. It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing
5. Different solenoid valves, filter, pressure regulator and limit switch can be customized.

www.cryogeniccontrolvalve.com

DQJ661F-40P Cryogenic Pneumatic Emergency Shut Off Valve

Technical Parameters

Nominal Diameter: 10~100mm
 Nominal Pressure: 4.0MPa
 Air Source Pressure: 0.3~0.6MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Emergency Shut Off Temperature: 70°C±5°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Batten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc Seal: 06Cr19Ni10+PCTFE
 Stem Seal: PCTFE

CODE	SIZE (mm)						
	DN	D0	D1	D2	L	H	B
DQJ661F-40P	10	12	15	22	61	386±2	6
DQJ661F-40P	15	15	19	26	61	386±2	6
DQJ661F-40P	20	23	26	34	81	450±2	6
DQJ661F-40P	25	26	33	42	81	450±2	6
DQJ661F-40P	32	35	39	46	102	508±2	9
DQJ661F-40P	40	42	46	55	102	508±2	9
DQJ661F-40P	50	54	58	66	127	538±2	10
DQJ661F-40P	65	68	77	91	150	548±2	10
DQJ661F-40P	80	84	89	104	180	637±2	15
DQJ661F-40P	100	104	110	127	200	776±2	15

DQJ661Y-320P Cryogenic Pneumatic High Pressure Emergency Shut Off Valve

Technical Parameters

Nominal Diameter: 10~50mm
 Nominal Pressure: 32.0MPa
 Air Source Pressure: 0.5~0.7MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+75°C
 Emergency Shut Off Temperature: 70°C±5°C
 Seal: Metallic Seal
 End Connection: Thread



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+Hard Alloy
 Stem: 06Cr19Ni10

CODE	SIZE(mm)				
	DN	D0	D1	L	H
DQJ661F-320P	10	10	18	90	621±2
DQJ661F-320P	15	12	22	90	621±2
DQJ661F-320P	20	15	26	94	626±2
DQJ661F-320P	25	15	32	94	626±2
DQJ661F-320P	32	12	18	115	632±2
DQJ661F-320P	40	12	22	115	632±2
DQJ661F-320P	50	24	60	172	648±2

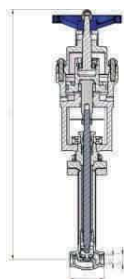
DQJ661F-40P Cryogenic Pneumatic Emergency Shut Off Valve with Jacket

Technical Parameters

Nominal Diameter: 10~50mm
 Nominal Pressure: 4.0MPa
 Air Source Pressure: 0.3~0.6MPa
 Applicable Medium: LNG、LO₂、LN₂、LAr
 Applicable Temperature: -196°C~+80°C
 Emergency Shut Off Temperature: 70°C±5°C
 Seal: Soft Seal
 End Connection: Socket Welding

Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc Seal: 06Cr19Ni10+PCTFE
 Stem Seal: PCTFE



CODE	SIZE (mm)				
	DN	D0	D1	L	H
DQJ661F-40P	10	12	15	61	448±2
DQJ661F-40P	15	15	19	61	448±2
DQJ661F-40P	20	23	26	81	450±2
DQJ661F-40P	25	26	33	81	450±2
DQJ661F-40P	32	35	39	102	468±2
DQJ661F-40P	40	42	46	102	468±2
DQJ661F-40P	50	54	58	127	555±2

Cryogenic Check Valve

General Information

Check valve, non-return or one-way valve is a valve the normally allows fluid to flow through it in only one direction; it can prevent medium backflow, pump or electronic driver reversing, and medium discharging in tanks. This valve has many features: easy to open/close, reliable sealing performance, simple construction and compact sizes.

Storage and Maintenance

1. Cleaning pipeline before installation.
2. Flow direction marked on valve should be the same as actual flow direction.
3. Valves should be installed vertical to the ground.
4. It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing.

www.cryogeniccontrolvalve.com

DH61F-40P Cryogenic Check Valve

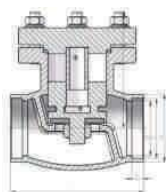
Technical Parameters

Nominal Diameter: 10~100mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding (Flange, Butten Weld, Thread available)



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Seal Ring: PCTFE



CODE	SIZE(mm)						
	DN	D0	D1	D2	H	L	B
DH61F-40P	10	12	15	22	64	61	6
DH61F-40P	15	15	19	26	64	61	6
DH61F-40P	20	23	26	34	76	81	6
DH61F-40P	25	26	33	39	76	81	6
DH61F-40P	32	35	39	46	94	102	9
DH61F-40P	40	42	46	52	94	102	10
DH61F-40P	50	54	58	66	105	127	10
DH61F-40P	65	68	77	85	112	150	10
DH61F-40P	80	84	89	100	139	182	10
DH61F-40P	100	104	109	121	150	200	15

DH61Y-320P High Pressure Cryogenic Check Valve

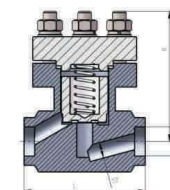
Technical Parameters

Nominal Diameter: 10~50mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Socket Welding



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Disc: 06Cr19Ni10+PCTFE
 Seal Ring: PCTFE



CODE	SIZE(mm)				
	DN	D	D1	L	H
DH61F-320P	10	18	10	90	92±1
DH61F-320P	15	22	12	90	92±1
DH61F-320P	20	26	16	94	98±1
DH61F-320P	25	33	20	94	98±1
DH61F-320P	32	18	12	115	104±1
DH61F-320P	40	22	12	115	104±1
DH61F-320P	50	60	24	172	120±1

Cryogenic Safety Valve

General Information

Safety valve (Pressure relief valve) is installed on cryogenic equipments, pipelines, tanks and transportation trails, this kind of valve is used to control or limit the pressure in pressurized tanks or pipelines

Storage and Maintenance

- 1.Cleaning pipeline before installation.
- 2.Flow direction marked on valve should be the same as actual flow direction.
- 3.Valves should be installed vertical to the ground.
- 4.It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing.
- 5.Inlet and outlet nipple size can be customized.

www.cryogeniccontrolvalve.com

DA22Y-40P Cryogenic Full Lift Safety Valve

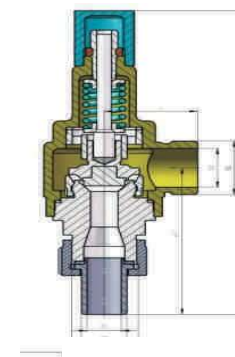
Technical Parameters

Nominal Diameter: 10~40mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Metallic Seal
 End Connection: Thread



Materials

Body: CF8/CF3
 Spring: SS304/SS316
 Disc: 06Cr19Ni10+Hard Alloy
 Seat: 06Cr19Ni10+Hard Alloy
 Seal Ring: PTFE



CODE	SIZE(mm)							
	D0	D1	D2	H	H1	L	M1	M2
DA22Y-40P	24	12	18	187±2	96	41	M30×1.5	M33×2
DA22Y-40P	34	18	25	229±2	102	47	M36×2	M45×2
DA22Y-40P	34	20	28	229±2	102	47	M36×2	M45×2
DA22Y-40P	57	38	45	332±2	134	70	M56X2	M70X2
DA22Y-40P	70	49	57	381±2	152	85	M70X2	M90X2

DA22F-40P Cryogenic Full Lift Safety Valve

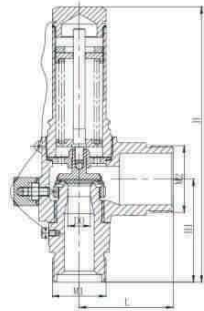
Technical Parameters

Nominal Diameter: 10~40mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Thread



Materials

Body: CF8/CF3
 Spring: SS304/SS316
 Disc: Copper
 Seat: Copper
 Seal Ring: PCTFE



型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions						公称通径 DN
	H	H1	D0	L	M1	M2	
DA22F-40P	160	56	Φ10.5	49	M30*1.5	NPT 1	DN15
DA22F-40P							
DA22F-40P							
DA22F-40P	185.5	69.5	Φ15	51	M36*2	NPT 1 1/4	DN25
DA22F-40P							
DA22F-40P							

DA21F-25P Cryogenic Low Lift Safety Valve

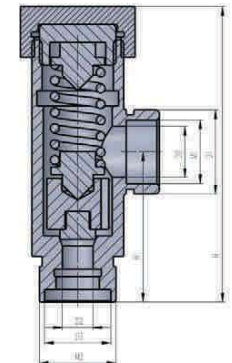
Technical Parameters

Nominal Diameter: 10~25mm
 Nominal Pressure: 2.5MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Soft Seal
 End Connection: Thread



Materials

Body: CF8/CF3
 Spring: SS304/SS316
 Disc: 06Cr19Ni10+Hard Alloy
 Seal Ring: PCTFE



CODE	SIZE(mm)							
	D0	D1	D2	H	H1	L	M1	M2
DA21F-25P	10	20	10	92	56	26	M16X1	M16X1
DA21F-25P	20	34	12	111	61	38	M27X1.5	M30X2
DA21F-25P	25	40	20	140	80	41	M33X2	M36X2

DA22Y-320P High Pressure Cryogenic Full Lift Safety Valve

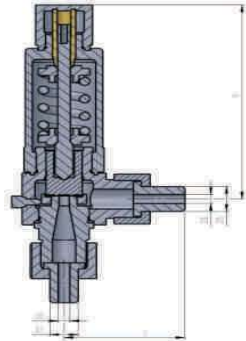
Technical Parameters

Nominal diameter: 15mm
 Nominal Pressure: 32.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+80°C
 Seal: Metallic Seal
 End Connection: Thread



Materials

Body: CF8/CF3
 Spring: SS304/SS316
 Disc: 30Cr13
 Seal Ring: T2-M
 Seat: F304

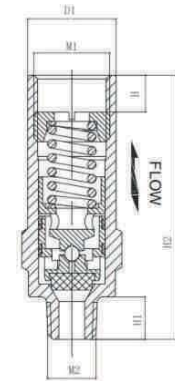


CODE	SIZE (mm)						
	DN	D0	D1	D2	D3	L	H
DA22Y-320P	15	9	22	9	25	93.5	195

Safety Valve DA08B2

Technical Parameters

Nominal diameter: 7-8mm
 Nominal Pressure: 4.0MPa
 Applicable Medium: LNG、LO2、LN2、LAr
 Applicable Temperature: -196°C~+85°C
 End Connection: Thread
 Body: Copper



型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions						
	D	D1	H	H1	H2	M	M1
DA-08B2	Φ7	Φ23.5	11.5	10	71±3	3/4- 20UNEF	NPT1/4
DA-08B2	Φ7	Φ23.5	11.5	10	71±3	3/4- 20UNEF	NPT1/4
DA-08B4	Φ8	Φ23.5	11.5	13.5	71±3	3/4- 20UNEF	NPT1/2
DA-08B4	Φ8	Φ23.5	11.5	13.5	71±3	3/4- 20UNEF	NPT1/2

Pressure regulator

General Information

Pressure Regulators provide stable outlet pressure when supplied with a varying inlet pressure

Storage and Maintenance

- 1.Cleaning pipeline before installation.
- 2.Flow direction marked on valve should be the same as actual flow direction.
- 3.Valves should be installed vertical to the ground.
- 4.It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing.

www.cryogeniccontrolvalve.com

DY22F-25P Cryogenic Pressure Build Up Valve

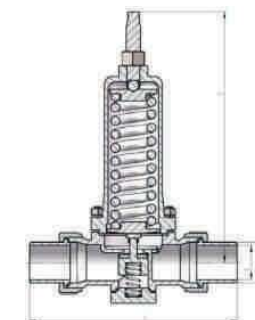
Technical Parameters

Nominal Diameter: DN20-50mm
 Nominal Pressure: PN2.5Mpa
 Suitable Temperature:-196°C~+80°C
 Applicable Medium: LNG、LO2、LN2、LAr
 End Connection: Thread
 Regulation Range:
 Post-valve outlet pressure 1 : 0.2~1.0MPa
 Post-valve outlet pressure 2 : 0.8~1.6MPa



Materials

Body: CF8/CF3
 Bonnet: SS304/SS316
 Packing: PTFE
 Disc Seal: PCTFE

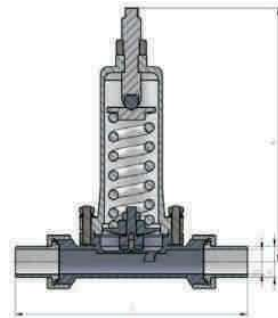


CODE	SIZE(mm)				
	DN	D	D1	L	H
DY22F-25P	25	26	32	218	275
DY22F-25P	40	38	45	237	285
DY22F-25P	50	49	57	265	293

DY22F-25P Cryogenic Economizer

Technical Parameters

Nominal Diameter: DN20-50mm
 Nominal Pressure: PN2.5Mpa
 Applicable Medium: LNG、 LO2、 LN2、 LAr
 Applicable Temperature: -196°C~+80°C
 End Connection: Thread
 Regulation Range:
 Post-valve outlet pressure 1 : 0.2~1.0MPa
 Post-valve outlet pressure 2 : 0.8~1.6MPa



Materials

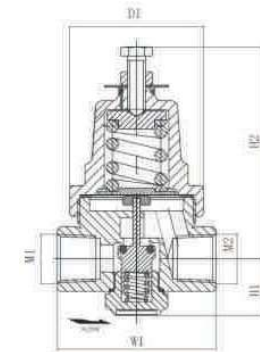
Body: CF8/CF3
 Bonnet: SS304/SS316
 Packing: PTFE
 Disc Seal: PCTFE

CODE	SIZE(mm)				
	DN	D	D1	L	H
DY22F-25P	25	26	32	218	275
DY22F-25P	40	38	45	237	285
DY22F-25P	50	49	57	265	293

DY12F-25(35)P Pressure Bulid Regulator

Technical Parameters

Nominal Pressure: 3.5MPa
 Nominal Diameter: 15mm
 Applicable Medium: LNG、 LO2 、 LN2 、 LAr
 Applicable Temperature: -196°C~+85°C
 End Connection: Thread
 Body: Copper

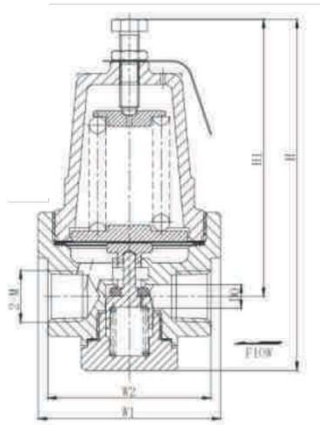


型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions						公称压力 Nominal operating pressure (MPa)	调压范围 Pressure adjusting range (MPa)
	D1	W1	H1	H2	M1	M2		
DY12F-25(35)P	Φ59	68	25	95	NPT1/2		P1=3.5	P2=0.2- 0.4
DY12F-25(35)P	Φ59	68	25	95	NPT1/2		P1=3.5	P2=1.4- 2.75
DY12F-25(35)P	Φ59	68	25	95	NPT1/2		P1=3.5	P2=2.75- 3.5

DY12F-50P Cryogenic Pressure Build Regulator

Technical Parameters

Nominal Pressure: 5.0MPa
 Nominal Diameter: 15 mm
 Suitable Medium: O₂、N₂、Ar、NG、CO₂ etc.
 Suitable Temp.: -196°C~+80°C
 Connection Type: Thread
 Standard: GB/T12244、GB/T12245
 Body, Cover, Disc: Copper
 Spring : Stainless Steel
 Sealing Material: PFA

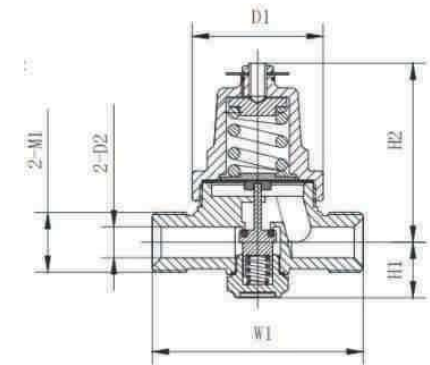


型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions						调压范围 Pressure adjusting range (MPa)
	H	H1	W1	W2	D0	M	
DY12F-50P	141	110	Φ76	68	Φ10	NPT1/2	0.2- 1.6
DY12F-50P	141	110	Φ76	68	Φ10	NPT1/2	1.6- 3.0
DY12F-50P	141	110	Φ76	68	Φ10	NPT1/2	3.0- 3.5

DY12F-25(35)P Pressure Bulid Regulator

Technical Parameters

Nominal Pressure: 5.0MPa
 Nominal Diameter: 15mm
 Applicable Medium: LNG、LO₂、LN₂、LAr
 Applicable Temperature: -196°C~+85°C
 End Connection: Thread
 Body: Copper



型号 Type	主要外形和连接尺寸(mm) Major Overall & Connection Dimensions							公称压力 Nominal operating pressure (MPa)	调压范围 Pressure adjusting range (MPa)
	D1	D2	W1	H1	H2	M1	M2		
DY12F-25(35)P	Φ59	Φ14	95	25	95	M27*2		P1=3.5	P2=0.2- 1.4
DY12F-25(35)P	Φ59	Φ14	95	25	95	M27*2		P1=3.5	P2=1.4- 2.75
DY12F-25(35)P	Φ59	Φ14	95	25	95	M27*2		P1=3.5	P2=2.75- 3.5

Cryogenic Ball Valve

General Information

A ball valve is a form of quarter-turn valve which uses a hollow, perforated and pivoting ball to control flow through it. It is open when the ball's hole is in line with the flow and closed when it is pivoted 90-degrees by the valve handle. Ball valves are durable, performing well after many cycles, and reliable, closing securely even after long periods of disuse. These qualities make them an excellent choice for shutoff and control applications.

Storage and Maintenance

- 1.Cleaning pipeline before installation.
- 2.Flow direction marked on valve should be the same as actual flow direction.
- 3.It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing.

www.cryogeniccontrolvalve.com

DQ61F-40P Cryogenic Ball Valve

Technical Parameters

Nominal Diameter: 10~50mm

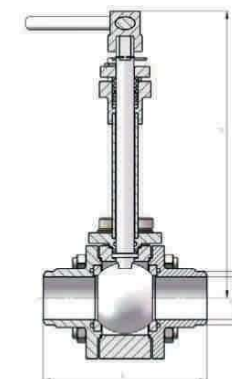
Nominal Pressure: 4.0MPa

Applicable Medium: LNG、LO2、LN2、LAr

Applicable Temperature: -196°C~+80°C

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, available)



Materials

Body: CF8/CF3

Bonnet: SS304/SS316

Stem:06Cr19Ni10

Seal Ring: PCTFE

Seat:SS304/SS316

Ball:SS304/SS316

CODE	SIZE (mm)				
	DN	D0	D1	L	H
DQ61F-40P	10	10	14	100	198±2
DQ61F-40P	15	14	20	100	198±2
DQ61F-40P	20	20	27	105	205±2
DQ61F-40P	25	25	33	107	218±2
DQ61F-40P	40	40	50	153	269±2
DQ61F-40P	50	50	62	194	336±2
DQ61F-40P	65	65	76	241	352±2
DQ61F-40P	80	80	90	279	363±2
DQ61F-40P	100	100	110	305	390±2

DQ661F-40P Pneumatic Cryogenic Ball Valve

Technical Parameters

Nominal Diameter: 10~50mm

Nominal Pressure: 4.0MPa

Applicable Medium: LNG、LO2、LN2、LAr

Applicable Temperature: -196°C~+80°C

Seal: Soft Seal

End Connection: Socket Welding (Flange, Butten Weld, available)

Materials

Body: CF8/CF3

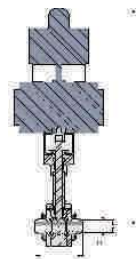
Bonnet: SS304/SS316

Stem: 06Cr19Ni10

Seal Ring: PCTFE

Seat: SS304/SS316

Ball: SS304/SS316



CODE	SIZE (mm)				
	DN	D0	D1	L	H
DQ661F-40P	10	10	14	100	467±2
DQ661F-40P	15	14	20	100	467±2
DQ661F-40P	20	20	27	105	476±2
DQ661F-40P	25	25	33	107	490±2
DQ661F-40P	32	32	40	153	531±2
DQ661F-40P	40	40	50	153	531±2
DQ661F-40P	50	50	62	194	648±2
DQ661F-40P	65	65	76	241	664±2
DQ661F-40P	80	80	90	279	725±2
DQ661F-40P	100	100	110	305	752±2

Guage and Valve

General Information

Needle and Gauge Valves are usually used in flow-metering application in air-separation equipment and storage tanks. Need and Gauge valves are easy to handle and good sealing performance.

Storage and Maintenance

1. Cleaning pipeline before installation.
2. Flow direction marked on valve should be the same as actual flow direction.
3. It is recommended to use nitrogen to perform pressure testing, no cryogenic liquid allowed after water pressure testing.
4. Valves should be installed vertical to the pipeline.

www.cryogeniccontrolvalve.com

DQ25F-40P Cryogenic 3-Way Ball Valve

Technical Parameters

Nominal Diameter: 25mm
Nominal Pressure: 4.0MPa
Applicable Medium: LNG、LO₂、LN₂、LAr
Applicable Temperature: -196°C~+80°C

Materials

Body: CF8/CF3
Bonnet: SS304/SS316
Seal Ring: PCTFE



Fill Valve Assembly

Technical Parameters

Nominal Diameter: 40mm
Nominal Pressure: 5.0MPa
Applicable Medium: LNG、LO₂、LN₂、LAr
Applicable Temperature: -196°C~+80°C
End Connection: Flange

Materials

Body: CF8/CF3
Bonnet: SS304/SS316
Seal Ring: PCTFE



Differential pressure gauge operation manual

Performance

	Standard	Option
Design standard	EN837-3	
Pressure range	100mm: from 0-4kPa to 0- 160kPa	
	150mm: from 0-4kPa to 0- 400kPa	
Accuracy (ambient 20°C)	100mm: 2.5%FS	100mm: 1.6%FS
	150mm: 2.5%FS	150mm: 1.6%FS or 1.0%PS
IP protection	IP65 EN60529	
Thermal drift (ambient 20°C)	max ± 0.04%FS/°C	
Medium temp	normal: -40~80°C	
	oxygen clean: -40°C~60°C	
Ambient temp	normal: -40~80°C	
	oxygen clean: -40°C~60°C	
Max static pressure	one side: 4MPa	
	both side: 5MPa	



Material

	Standard	Option
Dial size (mm)	100	150
Case	With fasten clip, 304SS material	316SS material
Dial	Aluminum, white, black/red lettering	
Pointer	Aluminum, black	
Movement	Stainless steel	
Pressure element	Diaphragm, NBR	
	Spring, 304SS	
Wetted parts	Brass	316LSS
Lens	PC	
Process connection	G1/4 " - F, central distance 37 mm	1/4 " NPT- F, central distance 37 mm



Cryogenic Breakaway Couplings

Technical Parameters

Nominal Pressure: 4.0MPa
Applicable Medium: LNG、LO₂、LN₂、LAr
Applicable Temperature: -196°C~+80°C
End Connection: Socket Weld, Flanged available
Body: CF8/CF3
Seal Ring: PCTFE



Dewar DPL450-175-1.4/2.3

MODEL LIST					
Model	Capacity(L)	Working Pressure(MPa)	With frame or not	With inner vaporizer or not	
Vertical	DPL-80-2.3	80	2.3	no	yes
	DPL-100-2.3	100	2.3	no	yes
	DPL-175-1.4	175	1.4	no	yes
	DPL-175-2.3		2.3	no	yes
	DPL-175-2.88		2.88	no	yes
	DPL-175-3.5		3.5	no	yes
	DPL-195-1.4		195	1.4	no
	DPL-195-2.3	2.3		no	yes
	DPL-195-2.88	2.88		no	yes
	DPL-195-3.5	3.5		no	yes
	DPL-210-2.4	210		1.4	no
	DPL-210-2.3		2.3	no	yes
	DPL-210-2.88		2.88	no	yes
	DPL-210-3.5		3.5	no	yes
	Horizontal	DPL-360-2.0	360	2	yes
DPL-500-2.3		500	2.3	yes	no
DPW-410-1.59		410	1.59	yes	no
DPW-500-1.59		500	1.59	yes	no
DPW-500-2.5			2.5	yes	no

LNG Couplings

Technical Parameters

Nominal Pressure: 4.0MpaDesign
Temperature: -196°C~+80°C
Suitable Media: LNG, LN₂



Refueling Receptacle

Technical Parameters

Nominal Pressure: 4.0MpaDesign
Applicable Temperature: -196°C~+80°C
Suitable Media: LNG、LN₂
Body: CF8/CF3
Disc: SS304
Main Sealing: PCTFE+S30210

