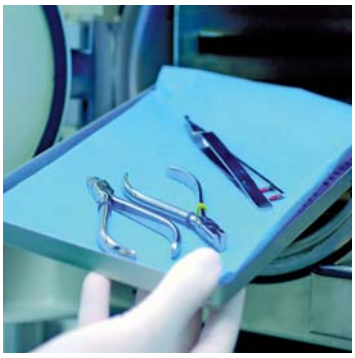
aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Parker Liquipure® Valve Series

Stainless Steel Valve for Healthy Beverage Dispensing and Life Sciences Applications

Parker

ENGINEERING YOUR SUCCESS.

DYSTRYBUTOR PARKER PREMIUM

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Parker Store

Parker Fluid Control Division Europe - FCDE

Who we are?

The Fluid Control Division in Europe (FCDE) is a division of Parker Hannifin, the global leader in motion and control technologies.

FCDE core competences are the development and manufacturing of an extremely diverse range of fluid control products, including solenoid valves and pressure regulators.

Where we are?

Our European headquarters are located in Geneva, this is also where our R&D, Marketing, Application Support and Product Management functions are located.

FCDE Products are mainly manufactured at locations in Carouge (Geneva - Switzerland) and Gessate (Milan - Italy).

The Parker Sales Companies and comprehensive distribution network support you, wherever you are.

History

Parker FCDE has been a leading player in the manufacturing and development of solenoid valve technologies for over 60 years, with continuous research and development bringing innovative solutions to the marketplace, for example leading the way in the utilisation of synthetic ruby for critical water applications or the unsurpassed reliability and precision of our pressure regulators. The expertise accumulated and developed through the years is evident in the superior quality of FCDE solutions.

Markets

Our products and solutions are typically designed for markets including Industrial Equipment, Industrial Automation, Mobile, Transportation, Life Sciences, Beverage dispensing and for Fluid and Process Control.

Benefits

The modular concept of our products, having separate solenoid valves and electrical parts, provides the customer with increased flexibility by allowing numerous combinations. This additional flexibility can enable distributors to greater reduce valve inventory levels, whilst retaining the same number of capabilities. Parker also has unrivalled experience in developing customised product solutions complying with the highest technical, environmental, energy and service life requirements.

PARKER FCDE - GENEVA - SWITZERLAND

PARKER FCDE - MILAN - ITALY

Table of content

Parker Liquipure® Valve Series

Parker Liquipure® Valve Series is the ultimate solution developed by Parker, marking a new standard for Beverage Dispensing and Life Sciences appliances.

For this new valve concept we have selected lead free materials in compliance with the most restrictive standards and regulations, in accordance with Market and People expectations concerning health.
A wide range of Liquipure(R) valves is also NSF certified, please consult our literature and our specialists to find out the NSF certified references. The innovative design makes the product easy to maintain.

Liquipure® technology is unique, protected by patent. Liquipure® is a registered trademark of Parker Hannifin Corporation.

Typical applications can be found in:

- Coffee Machines, professional, semi-professional and vending
- Water purifcation and water preparation
- Food & Beverage processing, Healthy Beverage Dispense equipment
- Demineralized water shut off
- Dishwasher disinfectors, hot steam sterilizers

Liquipure® is interchangeable with 32 x 32 sub base mounting solutions.

Product is available in 2/2 and 3/2 configuration, normally closed. It is also available in 3/2 Universal function making the valve applicable as diverter or selector.

An adapter kit is also offered to convert the product into a pipe mounting version. A wide range of seals is also available, including FKM-FDA, Ruby and EPDM in order to optimize compatibility with the media.

Benefits

Liquipure® is a healthy solution, NSF certified for FKM-FDA seals: key benefits are:

- Healthy and foodstuffs compatible
- Full stainless steel structure
- Wide range of Liquipure(R) valves is NSF certified, please consult our literature and sales support specialists
- Interchangeable with existing sub-base mounting valves
- Increase of reliability: reduction of welding joints
- Standardization of inventory: unique reference for USA & Europe
- Easy to maintain: easy and quick access to internal parts for cleaning and service

General Description

Material Specifications

- Valve body and seat support: AISI 305
- Seat: AISI 303
- Plungers: AISI 430F
- Springs: AISI 302
- Main seat disc: FKM-FDA, Ruby, EPDM
- Exhaust seat disc (static sealing): FKM-FDA
- Adapter: AISI 304

Installation

Valves can be mounted in any position, respecting the installation scheme at page 6.

Media

Valves have been developed to achieve the best performances with water, superheated water and steam. Maximum recommended media temperature is 140°C.

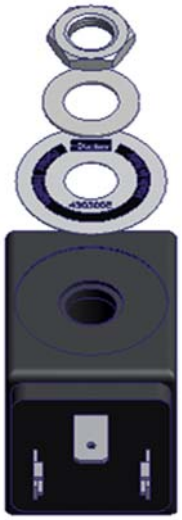
Electrical parts

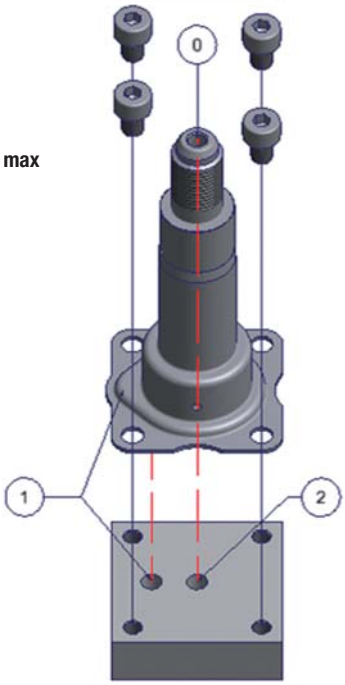
Parker wide variety of coils including IP65 & IP67 with UL & IEC/CENELEC & Dual Frequency.

Installation

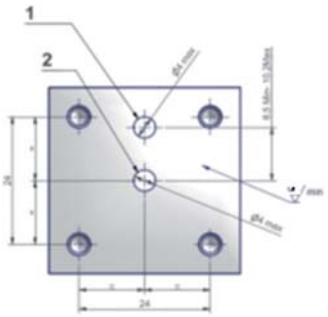
Each valve must be mounted using 4 screws M4 x 0,7, minimum recommended length: 6.0 mm.

It is mandatory to install the valve using 4 screws, for a proper use of it.

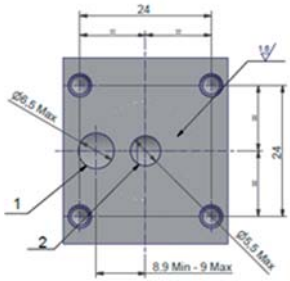




For Valves with orifice Ø < 3 mm



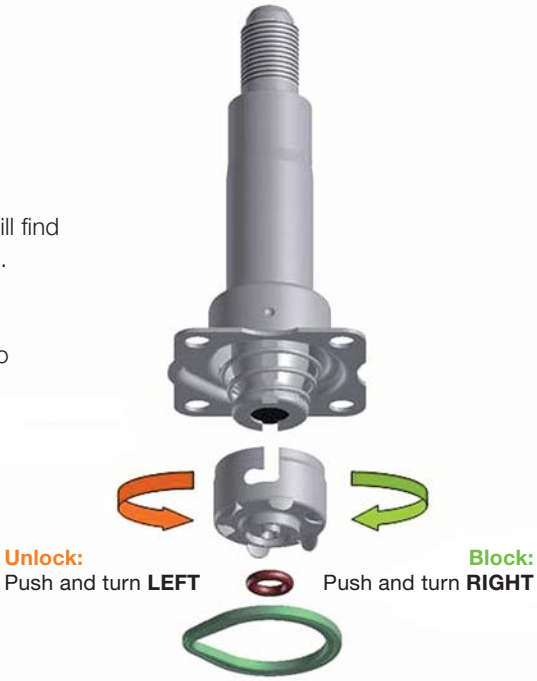
For Valves with orifice Ø > 4.0 mm to 5 mm max



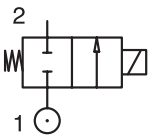
Maintenance

Among the most innovative features of Liquipure® Valve Series you will find an easy and quick access to internal parts, without any specific tools.

The image on the right show how the seat support can be mounted and dismounted to get a quick access to the valve plunger in order to clean it or replace it after a long operating life.



Product Range



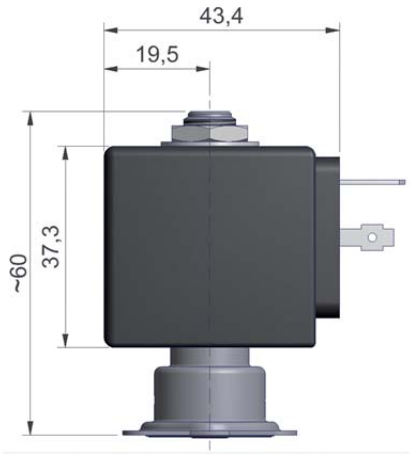
2/2 Normally Closed

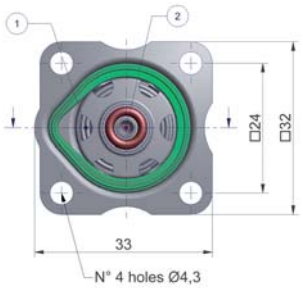
Port Size	Orifice mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Reference		Power		Coil Group	Compatible Adapter Kit
		Kv l/min	KV m^3/h	Min. bar	Max. (MOPD) AC bar	DC bar	Min °C	Max °C		Valve Reference	Coil Ref.	AC W	DC W		
SB	1.5	1.3	0.08	0	20	20	-10	140	Ruby	**2019F1GRG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	1.5	1.3	0.08	0	20	20	-10	140	FKM FDA	**2019F1GVG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.3	0.14	0	15	15	-10	140	Ruby	**2019F1JRG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.3	0.14	0	15	15	-10	140	FKM FDA	**2019F1JVG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	3.2	0.19	0	10	10	-10	140	Ruby	**2019F1LRG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	3.2	0.19	0	10	10	-10	140	FKM FDA	**2019F1LVG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	4.2	0.25	0	7	7	-10	140	Ruby	**2019F1NRG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	4.2	0.25	0	7	7	-10	140	FKM FDA	**2019F1NVG7$_1$**	D5	9	8	24.0	XGSPG1-XGSPG2
	4.0	6.5	0.39	0	5	5	-10	140	FKM FDA	**2019F1QVG7$_1$**	D5	9	8	24.0	XGSPG3
	4.0	6.5	0.39	0	5	5	-10	140	EPDM	**2019F1QEG7**	D5	9	8	24.0	XGSPG3
	5.0	7.2	0.43	0	3	3	-10	140	FKM FDA	**2019F1SVG7$_1$**	D5	9	8	24.0	XGSPG3
	5.0	7.2	0.43	0	3	3	-10	140	EPDM	**2019F1SEG7**	D5	9	8	24.0	XGSPG3

Nominal Pressure = 20 bar

Notes:

1. NSF Certified



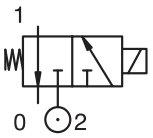


All dimensions are in mm

Product Range

3/2 Normally Closed

1/8"G threaded Male Exhaust Port

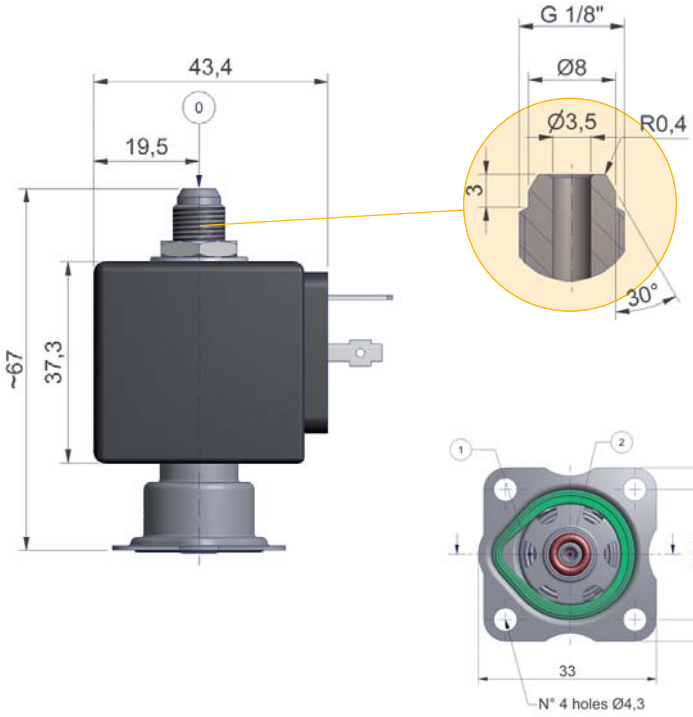


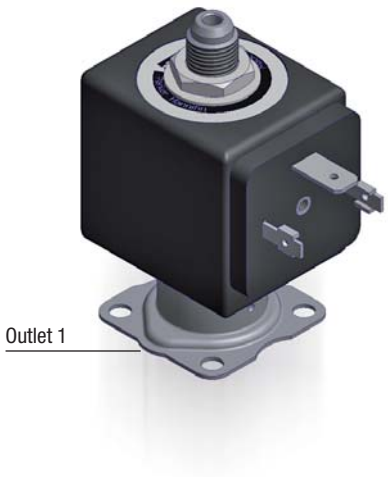
Port Size	Orifice mm		Flow Factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Reference		Power		Coil Group	Compatible Adapter Kit
	1	(2)	1		(2)		Min.	Max. (MOPD)		Min.	Max.		Valve Reference	Coil Ref.	AC W	DC W		
			Kv l/min	KV m^3/h	Kv l/min	KV m^3/h	bar	AC bar	DC bar	°C	°C							
SB	1.5	2.5	1.4	0.08	2.9	0.17	0	14	14	-10	140	Ruby	**3019F1GRG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	1.5	2.5	1.4	0.08	2.9	0.17	0	14	14	-10	140	FKM FDA	**3019F1GVG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	0.13	2.9	0.17	0	10	10	-10	140	Ruby	**3019F1JRG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	0.13	2.9	0.17	0	10	10	-10	140	FKM FDA	**3019F1JVG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	0.17	2.9	0.17	0	6.5	6.5	-10	140	Ruby	**3019F1LRG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	0.17	2.9	0.17	0	6.5	6.5	-10	140	FKM FDA	**3019F1LVG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	0.20	2.9	0.17	0	4	4	-10	140	Ruby	**3019F1NRG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	0.20	2.9	0.17	0	4	4	-10	140	FKM FDA	**3019F1NVG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	4.0	2.5	6.5	0.39	2.9	0.17	0	3	3	-10	140	FKM FDA	**3019F1QVG7**[1]	D5	9	8	24.0	XGSPG3
	4.0	2.5	6.5	0.39	2.9	0.17	0	3	3	-10	140	EPDM	**3019F1QEG7**	D5	9	8	24.0	XGSPG3
	5.0	2.5	7.2	0.43	2.9	0.17	0	2	2	-10	140	FKM FDA	**3019F1SVG7**[1]	D5	9	8	24.0	XGSPG3
	5.0	2.5	7.2	0.43	2.9	0.17	0	2	2	-10	140	EPDM	**3019F1SEG7**	D5	9	8	24.0	XGSPG3

Nominal Pressure = 20 bar

Notes:

1. NSF Certified



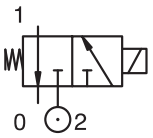


All dimensions are in mm

Product Range

3/2 Normally Closed

Hose Bib at Exhaust Port

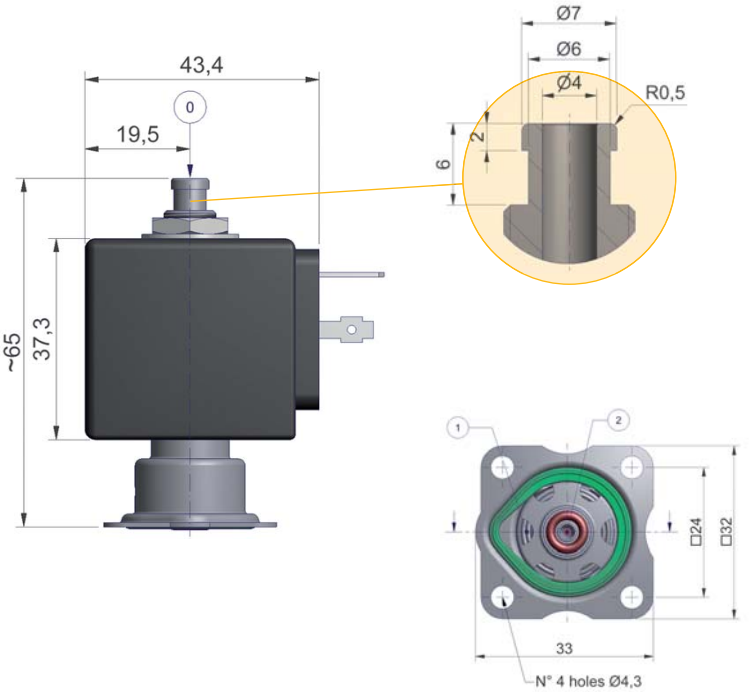


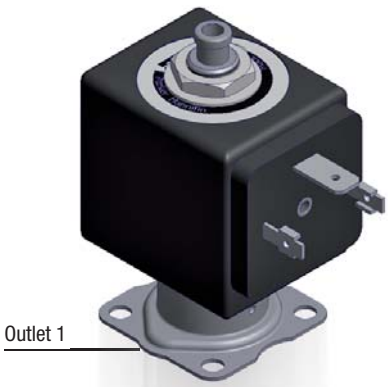
Port Size	Orifice mm		Flow Factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Reference		Power		Coil Group	Compatible Adapter Kit
	1	(2)	1		(2)		Min.	Max. (MOPD)		Min.	Max.		Valve Reference	Coil Ref.	AC W	DC W		
			Kv l/min	KV m^3/h	Kv l/min	KV m^3/h	bar	AC bar	DC bar	°C	°C							
SB	1.5	2.5	1.4	0.08	2.9	0.17	0	14	14	-10	140	Ruby	**301XGFRTG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	1.5	2.5	1.4	0.08	2.9	0.17	0	14	14	-10	140	FKM FDA	**301XGFVTG7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	0.13	2.9	0.17	0	10	10	-10	140	Ruby	**301XGFRTJ7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	0.13	2.9	0.17	0	10	10	-10	140	FKM FDA	**301XGFVTJ7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	0.17	2.9	0.17	0	6.5	6.5	-10	140	Ruby	**301XGFRTL7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	0.17	2.9	0.17	0	6.5	6.5	-10	140	FKM FDA	**301XGFVTL7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	0.20	2.9	0.17	0	4	4	-10	140	Ruby	**301XGFRTN7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	0.20	2.9	0.17	0	4	4	-10	140	FKM FDA	**301XGFVTN7**[1]	D5	9	8	24.0	XGSPG1-XGSPG2
	4.0	2.5	6.5	0.39	2.8	0.168	0	3	3	-10	140	FKM FDA	**301XGFVTQ7**[1]	D5	9	8	24.0	XGSPG3
	4.0	2.5	6.5	0.39	2.8	0.168	0	3	3	-10	140	EPDM	**301XGFETQ7**	D5	9	8	24.0	XGSPG3
	5.0	2.5	7.2	0.43	2.8	0.168	0	2	2	-10	140	FKM FDA	**301XGFVTS7**[1]	D5	9	8	24.0	XGSPG3
	5.0	2.5	7.2	0.43	2.8	0.168	0	2	2	-10	140	EPDM	**301XGFETS7**	D5	9	8	24.0	XGSPG3

Nominal Pressure = 20 bar

Notes:

1. NSF Certified



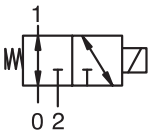


All dimensions are in mm

Product Range

3/2 Universal

1/8"G threaded Male Exhaust Port

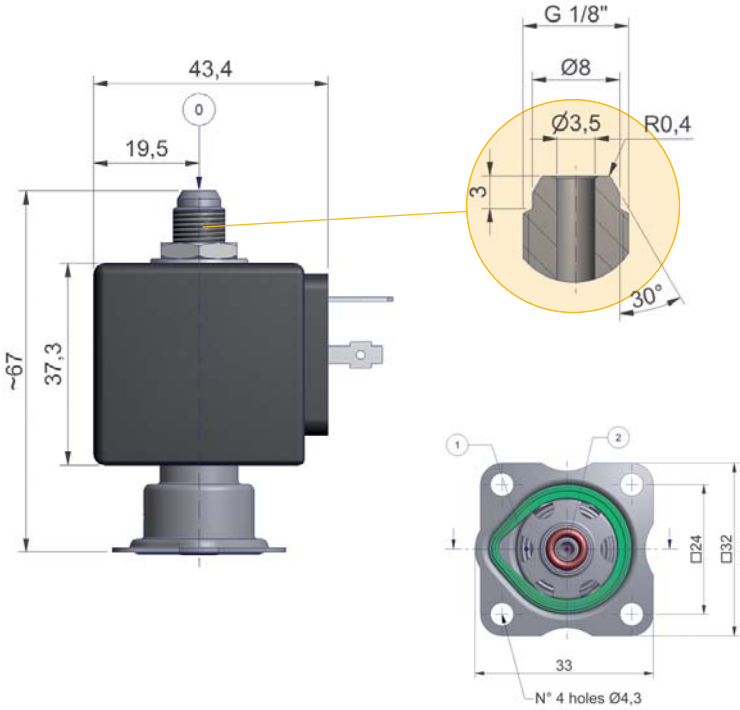


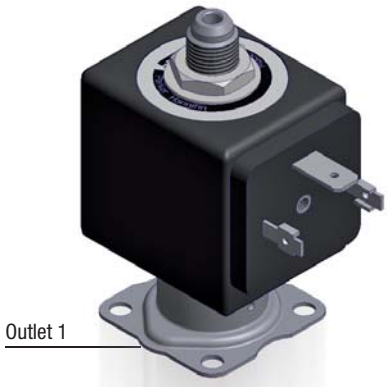
Port Size	Orifice mm		Flow Factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Reference		Power		Coil Group	Compatible Adapter Kit
	1	(2)	1		(2)		Min.	Max. (MOPD)		Min.	Max.		Valve Reference	Coil Ref.	AC W	DC W		
			Kv l/min	KV m^3/h	Kv l/min	KV m^3/h	bar	AC bar	DC bar	°C	°C							
SB	1.5	1.5	1.4	0.08	1.3	0.8	0	9.5	9.5	-10	140	FKM FDA	**3039F1GVG7$_1$**	D5	9	8	24.0	XGSPG1 - XGSPG2
	1.5	1.5	1.4	0.08	1.3	0,08	0	9.5	9.5	-10	140	EPDM	**3039F1GEG7**	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	FKM FDA	**3039F1JVG7$_1$**	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	EPDM	**3039F1JEG7**	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.17	0	2	2	-10	140	FKM FDA	**3039F1LVG7$_1$**	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.168	0	2	2	-10	140	EPDM	**3039F1LEG7**	D5	9	8	24.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.17	0	2	2	-10	140	FKM FDA	**3039F1NVG7$_1$**	D5	9	8	24.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.168	0	2	2	-10	140	EPDM	**3039F1NEG7**	D5	9	8	24.0	XGSPG1 - XGSPG2

Nominal Pressure = 20 bar

Notes:

1. NSF Certified





All dimensions are in mm

Coil Range

D5 Coil Series 32 mm

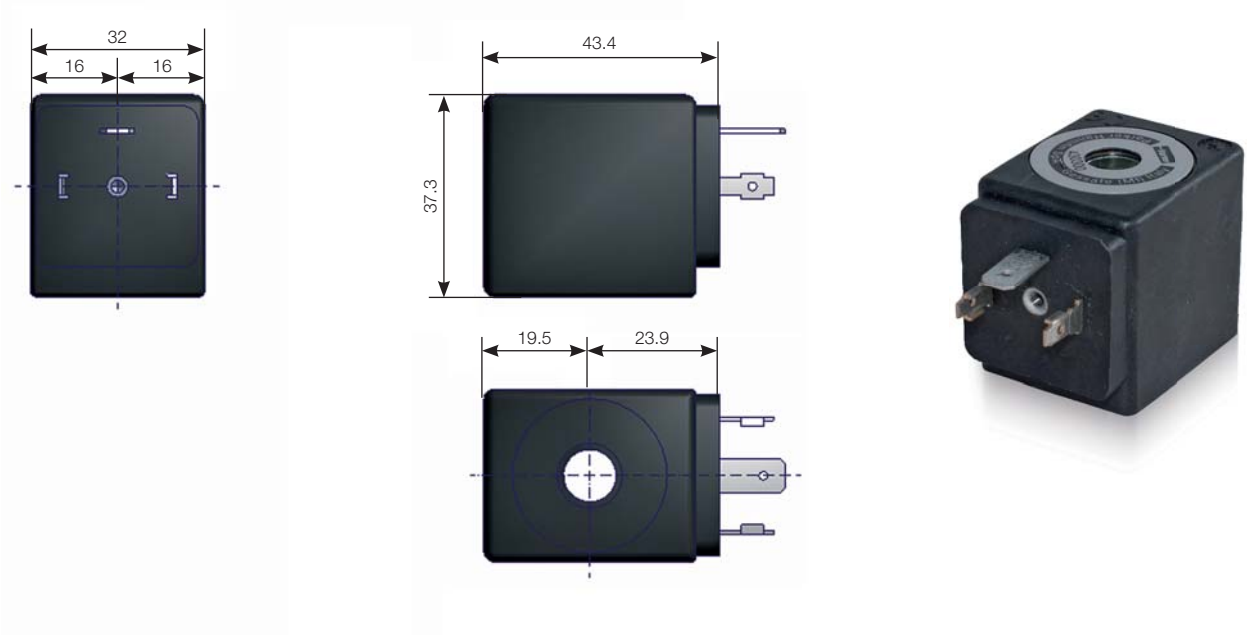
Encapsulated in synthetic material, Connector for 2P+E according with DIN EN 175301-803, Form A, IP65 degree of protection to be considered with connector plug only.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).

Specification			Mono Frequency VDE Coil			
Reference (without DIN plug)			D5 Series			
Coil group			24.0			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug)			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	9 W			
		P (cold) 20°C	-			
	AC	**P** (cold) 20°C	8 W			
		Attraction cold	40 VA			
Weight			130 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			24/50 110/50 220-230/50 24/60 230/60 115/60	D5H D5XA5 D5L D5E D5XJ3 D5XK8	24	D5B

Code Example: D5 for 24 VAC/60 Hz = **D5E**



All dimensions are in mm

Coil Range

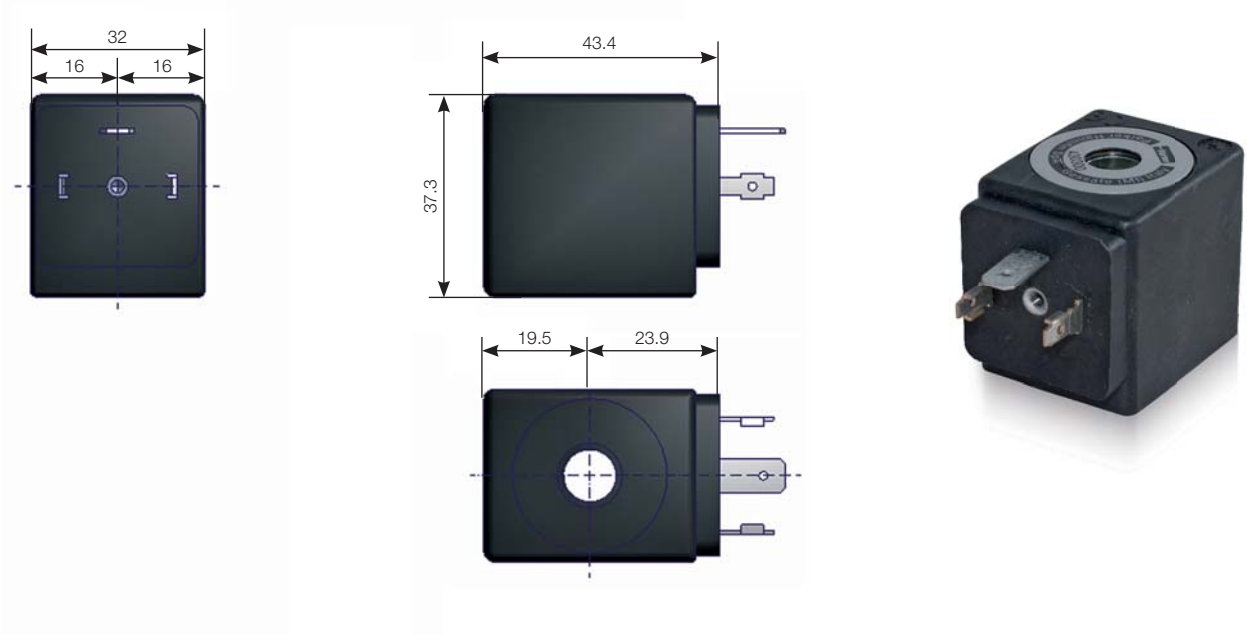
D4 Series - UL Coils 32 mm

This coil is UL-approved as a recognized component for the insulation Class 155°C, conforms to the IEC/ CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).

Specification			UL Recognized			
Reference (without DIN plug)			D4 Series			
Coil group			24.0			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug)			
Class of insulation			F 155°C			
Electrical Connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	12 W			
		P (cold) 20°C	16 W			
	AC	**Pn** (holding)	11 W			
		Attraction cold	13 VA			
Weight			130 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/60 110/50 - 120/60 220/50 - 240/60	D4E D4F D4G	24	D4B

Code Example: D4 for 24VAC/60Hz = **D4E**



All dimensions are in mm

Coil Range

XS03 Coil Series 32 mm

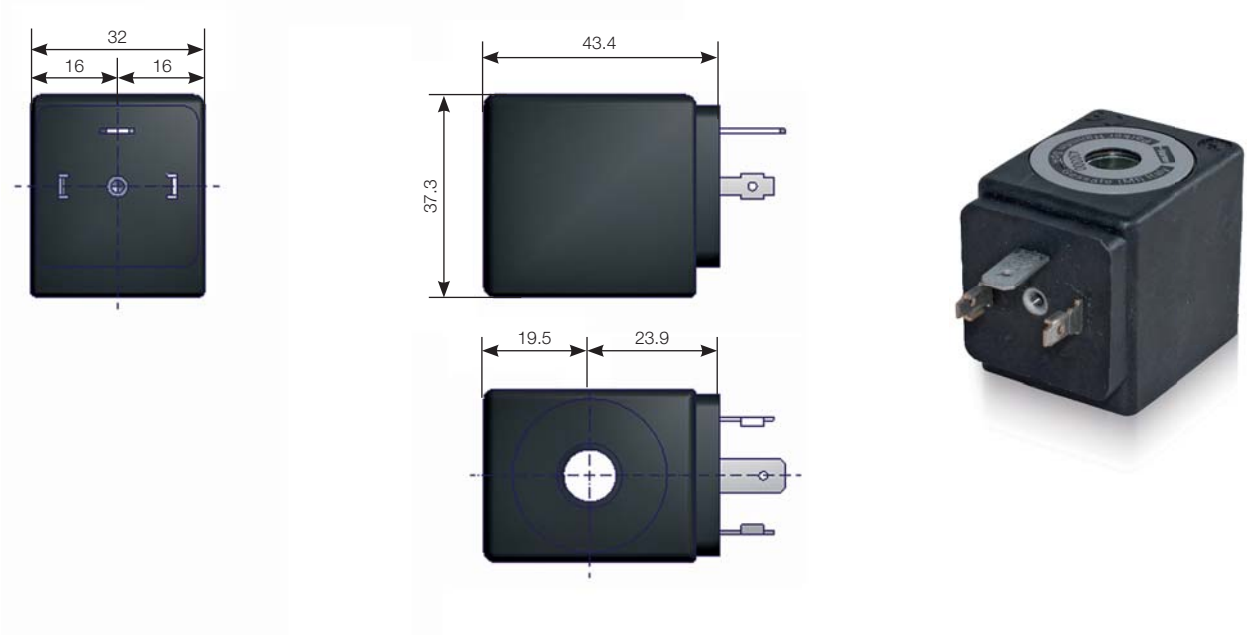
Encapsulated in synthetic material, Connector for 2P+E according with DIN EN 175301-803, Form A, IP65 degree of protection to be considered with connector plug only.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).

Specification			Bi- Frequency VDE Coil	
Reference (without DIN plug)			XS03 Series	
Coil group			24.0	
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug)	
Class of insulation			F 155°C	
Electrical Connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	-	
		P (cold) 20°C	-	
	AC	**Pn** (holding)	9 W	
		Attraction cold	32 VA	
Weight			130 g	
Voltages "Un" -10% to +10% of Un for AC			VAC/Hz	Code
			24/50 - 24/60 110-115/50 - 120/60 220-240/50 - 240/60	XS03M XS03XS5 XS03XS6

Code Example: XS03 for 24/50-24/60 = **XS03M**



All dimensions are in mm

Coil Range

LA Coil Series 32 mm IP67

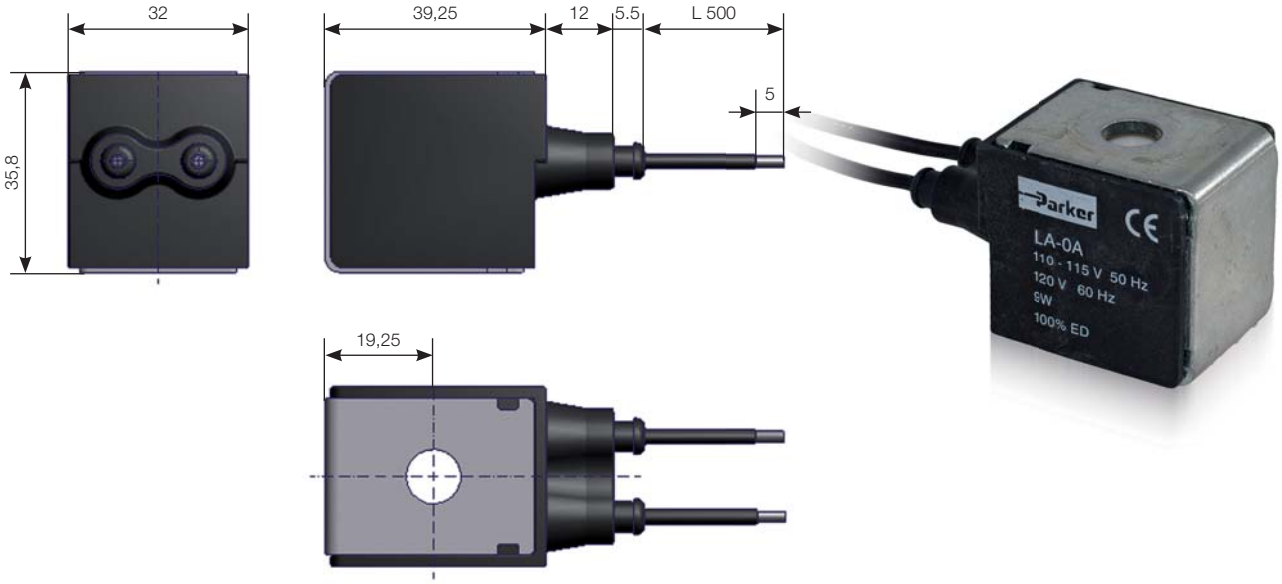
Encapsulated in synthetic material. Degree of protection IP67 as per IEC/EN60529.

Connection: 2 x 500 mm cables.

This coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

Specification			Coil with two 500 mm flying leads			
Reference			LA Series			
Coil group			24.0			
Degree of protection			**IP67** according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	9 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	9 W			
		Attraction cold	32 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC.			24/50 - 24/60 110-115/50 - 120/60 220-240/50 - 240/60	LAM LAXS5 LAXS6	24	LAB

Code Example: LA Series for 24 VDC = **LAB**



All dimensions are in mm

Coil Range

LB-LC Coil Series 32 mm UL IP67

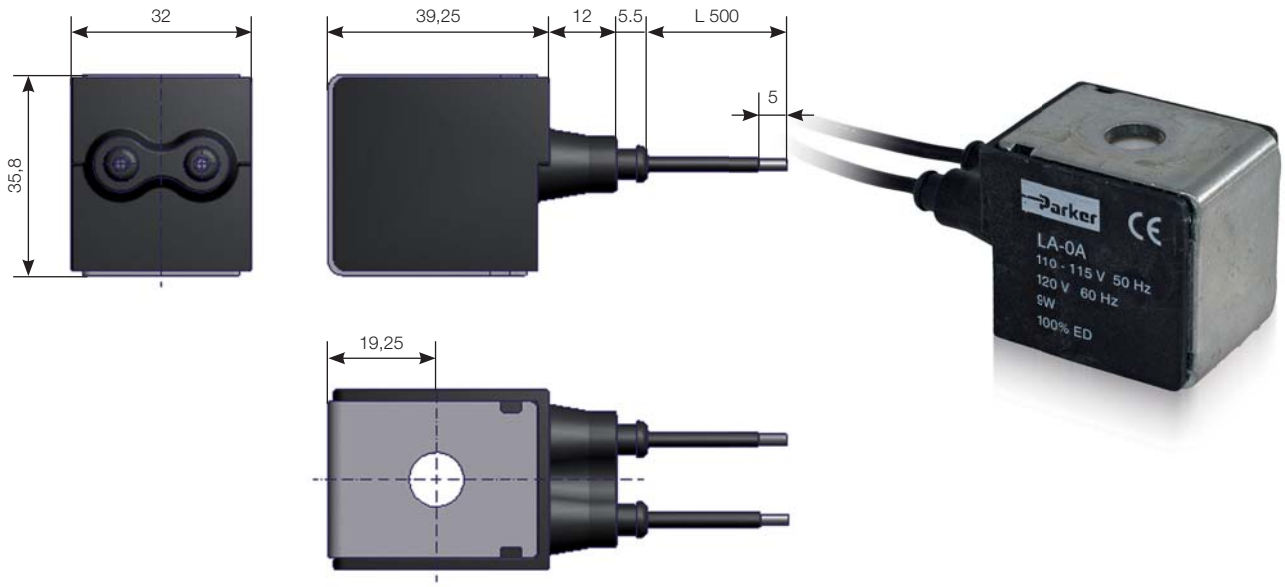
Encapsulated in synthetic material. Degree of protection IP67 as per IEC/EN60529.

Connection: 2 x 500mm cables.

This coil is UL-approved as a recognized component for the insulation Class 155°C, conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

Specification			UL Coil with two 500 mm flying leads			
Reference			LB-LC Series			
Coil group			24.0			
Degree of protection			**IP67** according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-10°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	16 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	13-14 W			
		Attraction cold	40 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/60 110/50 - 120/60 208-240/60 220/50 240/60	LBE LBF LBXU3 LBG	24	LCB

Code Example: LB-LC for 24 VDC = **LCB**



All dimensions are in mm

Coil Range

DM High Temperature Coil Series 32 mm IP65

These coils can be mounted with any Parker solenoid valves whereas specified Coil Group is indicated.

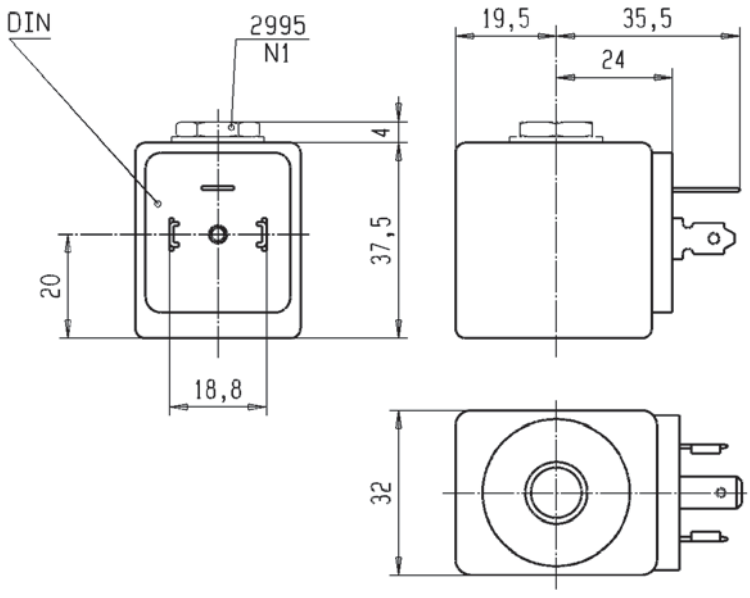
See column "Coil Group" within valve pages.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with 2006/95/EC European low-voltage directive.

DIN Plug connector to be ordered separately, see page 17.

Specification			High Temperature + High Power			
Ref. (without DIN plug)			DM			
Coil Group			24.0			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			H 180°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	14 W			
		P (cold) 20°C	21 W			
	AC	**Pn** (holding)	14 W			
		Attraction cold	55 VA (18 W)			
Weight			130 g (without plug)			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 110/50 230/50	H J K	24	B

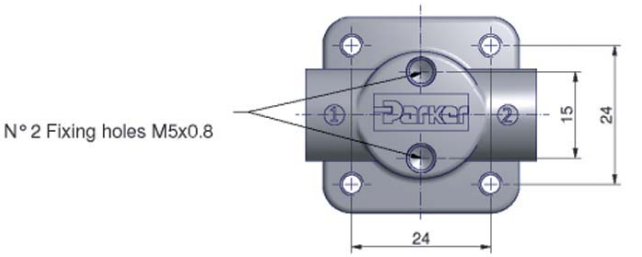
To Order a Coil : Use coil reference DM and add Voltage Code., example: DM for 24VDC= **DMB**

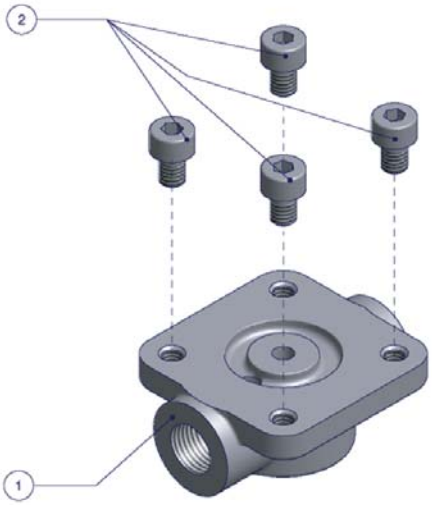


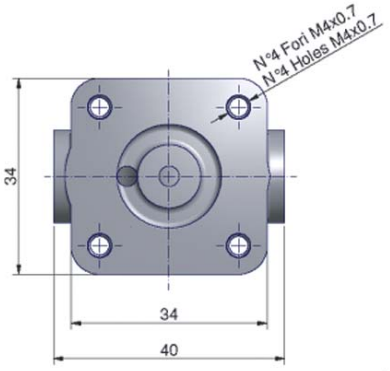
All dimensions are in mm

Liquipure® Adapter

Port Size	Part Number	Material	Kit Including	Compatible with Valves with
1/8"G	**XGSPG1**	AISI 304	fixing screws	any < 3.0 mm orifice
1/4"G	**XGSPG2**	AISI 304	fixing screws	any < 3.0 mm orifice
1/4"G	**XGSPG3**	AISI 304	fixing screws	4.0 mm to 5 mm orifice







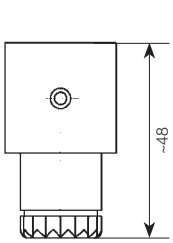
All dimensions are in mm

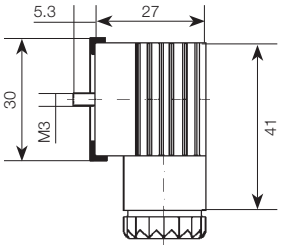
Connector

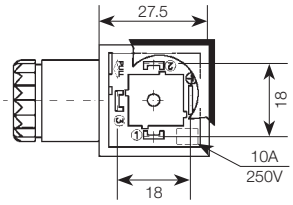
According to DIN EN 175301-803 - Form A

To be ordered separately.

Max A	Cable Section	Nominal Voltage	Reference
16 A	6-10 mm²	250-/300 V=	**600003PLUG**







All dimensions are in mm

Spare Parts

Plunger Service Kit

Plunger Type	Main Seat Seals	Part Number	To be used with	Box Quantity
2 Ways	FKM FDA	**7GRP01**	2019F1 FKM FDA Seals version	50
3 Ways	FKM FDA	**7GRP02**	3019F1-301XG FKM FDA Seals version	50
2 Ways	Ruby	**7GRP03**	2019F1 Ruby Seals version	50
3 Ways	Ruby	**7GRP04**	3019F1-301XG Ruby Seals version	50
2 Ways	FKM FDA	**7GRP05**	2019F1QVG7 FKM FDA Seals version	50
3 Ways	FKM FDA	**7GRP06**	3019F1QVG7-301XGFVTQ7 FKM FDA Seals version	50
2 Ways	EPDM	**7GRP07**	2019F1SVG7 EPDM Seals version	50
3 Ways	EPDM	**7GRP08**	3019F1SVG7-301XG EPDM Seals version	50

Note: contains plunger only

Flange Interface Seals

Seals Type	Seals Material	Part Number	To be used with	Box Quantity
Flange Interface Seals	FKM FDA	**7GRS01**	any version	50

How to Order

Valve can be ordered according to desired configuration:

- Valve body and coil separately • Valve body and coil assembled
- Valve body, pipe mounting adaptation kit and coil assembled (pipe mounting version)

Please follow step by step the flowchart here below shown:

Step 1

Select the valve body reference needed at pages 6-9.

Max °C		Valve Reference	Coil Ref.	AC W	DC W
140	Ruby	**2019F1GRG7**	D5	9	8
140	FKM FDA	2019F1GVG7	D5	9	8
140	Ruby	2019F1JRG7	D5	9	8
140	FKM FDA	2019F1JVG7	D5	9	8

Step 2

Select the coil and the voltage code at pages 11-15.

Mono Frequency VDE Coil

D5 Series

24.0

IP65 according to IEC / EN 60529 standards (with DIN plug)

F 155°C

connected with a 2 P + E plug according to EN 175301-803

-40°C to +50°C

collection is limited also by the temperature range of the

Step 3

Select adapter kit at page 16 - optional.

Step 4

Select accessories at page 17.

Step 5

You can now identify the complete Liquipure® designation which must be used to release your order!

Example: 2019F1GRG7D5H

Optional: at page 17 you will be able to find also Components and Spare Parts offering.

WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes

Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO_2 controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves

Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydrostatic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions

Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & system

Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings

Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors

Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors

Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/ controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves

Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
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US Product Information Centre
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