



# Offshore and Onshore Solenoid valves



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The FCSE 8120 UK Catalogue is a selection of Parker FCSE products dedicated to Oil & Gas Market. General catalogue FCSE is also available and contains a comprehensive list of Parker Fluid Control Products for other markets and general purpose applications.



**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.**

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

## Technical Data

### Common features:

Poppet design.

### Safe body working pressure:

10500 kPa /105 bar for F, V and X valves types (except U033X5195 valve: SBWP = 15 bar)

Valve mounting:

- direct pipe mounting: valves V and X
- Sub-base mounting (or flanged): valves F + 3 valves X references

### Mouting position:

Indifferent

### Body material:

316L Stainless steel

### Valve trim (gasket) material:

Buna (NBR), Viton (FKM), Polyurethan (PUR), Silicon (VMQ)

### Seat discs material:

Stainless steel (valves F & V), polyamid-imid (valves X)

### Medium:

Instrument or industrial air, dry or lubricated, nitrogen (121V... valve)

Filtration:

50µm or better

### SIL grade:

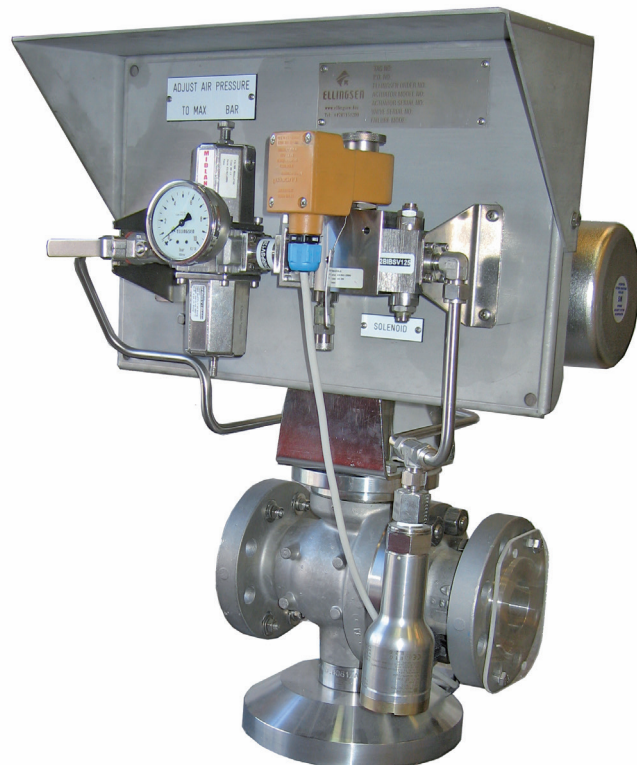
All the parts included in this catalogue are SIL Certified through an external notified body.

## Applications

- Pneumatic Actuator control.
- Fail-safe function of main ON/OFF or modulating valves. The main valve keeps its safe position in case of current failure. Fail-safe valves are either electrically (U)133X, or manually (U)033X resettable.

## Benefits

- Extensive range of ATEX and IECEx certified coils fully complying to stated EN and IEC standards.
- A completely traceable manufacturing programme together with 40 years field proven technology in the Offshore Industry.
- Complete range of corrosion resistant valves together with cutting edge low temperature valves technology.
- Corrosion resistance (Stainless steel 316 L material)



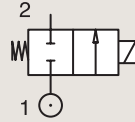
© Courtesy of Ellingsen

# V SERIES

## STAINLESS STEEL VALVES FOR PIPE MOUNTING

### 316L STAINLESS ST. PIPE MOUNTING

#### NORMALLY CLOSED



Port size	Orifice Ø mm	Flow factor			Operating Pressure Differential Max(MOPD)			Fluid Temp. Min Max °C		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max AC bar	Max DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	1	0.6	0.04	40	0	-	98	-40	65	PUR	U121V7595 <sub>1</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8165
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V7595 <sub>1</sub>	-	496700	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2/10.3	8165
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V7595 <sub>1</sub>	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8299
	1	0.6	0.04	40	0	98	98	-40	50	PUR	U121V7595 <sub>1</sub>	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8300

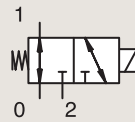
**Notes:**

1. If media is water, max admissible fluid temperature is 40°C

Valves integrable in complete  
SIL 3 safety loops (IEC 61508).

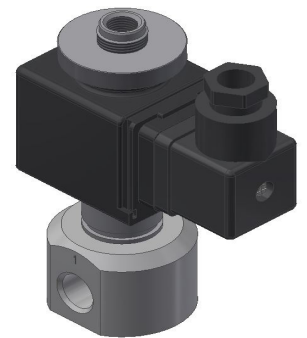
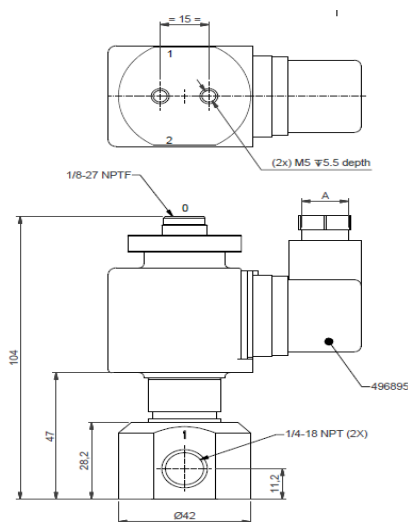
### 316L STAINLESS ST. PIPE MOUNTING

#### UNIVERSAL



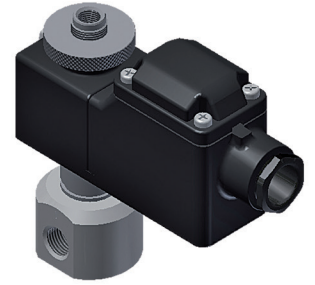
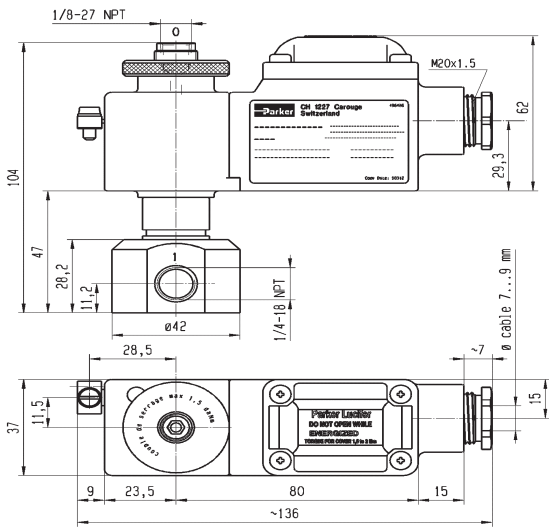
Port size	Orifice Ø mm	Flow factor			Operating Pressure Differential Max(MOPD)			Fluid Temp. Min Max °C		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max AC bar	Max DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	2	2.5	0.15	140	0	-	12	-25	65	FKM	U133V7595	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.3	8166
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V7595	-	496700	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.3	8166
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V7595	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.3	8299
	2	2.5	0.15	140	0	12	12	-25	50	FKM	U133V7595	-	496895	-	-	8	8	9.0/10.1/10.3	8300
	2.5	3.5	0.21	220	0	-	8.5	-25	65	FKM	U133V7695	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.3	8166
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V7695	-	496700	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.3	8166
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V7695	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.3	8299
	2.5	3.5	0.21	220	0	8.5	8.5	-25	50	FKM	U133V7695	-	496895	-	-	8	8	9.0/10.1/10.3	8300

Valves integrable in complete  
SIL 3 safety loops (IEC 61508).

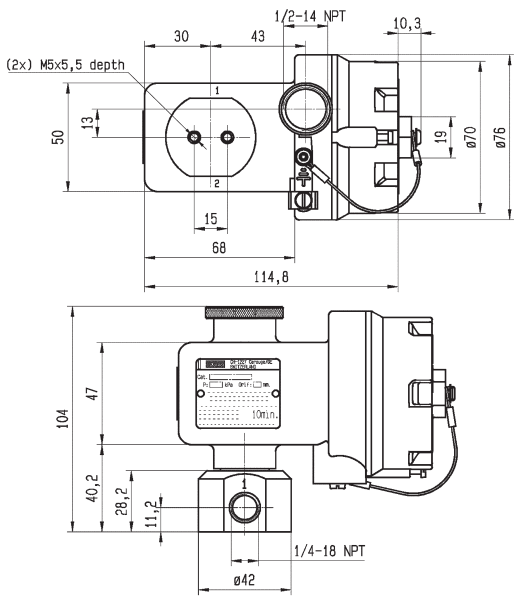


Drawing 8300

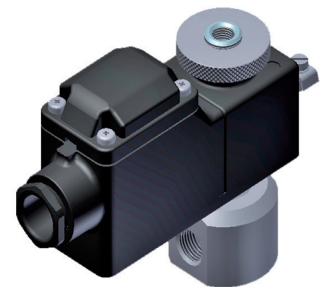
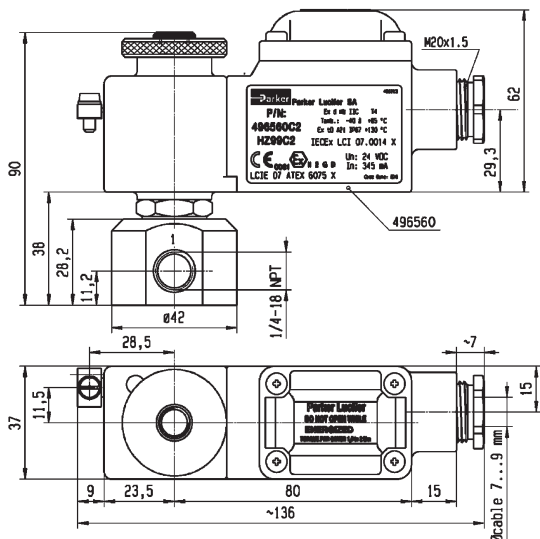




Drawing 8166



Drawing 8299



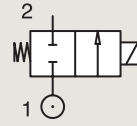
Drawing 8165

# F SERIES

BRASS, STAINLESS STEEL AND VALVES FOR FLANGE MOUNTING

316L STAINLESS ST.  
PIPE MOUNTING

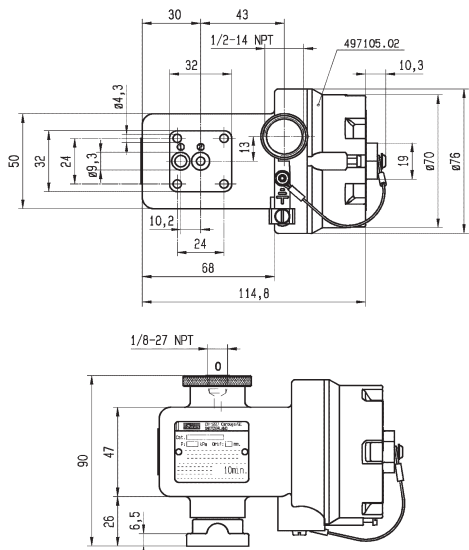
**NORMALLY CLOSED**



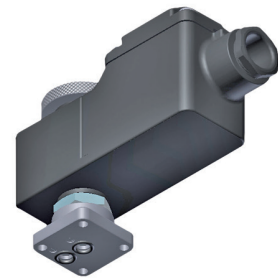
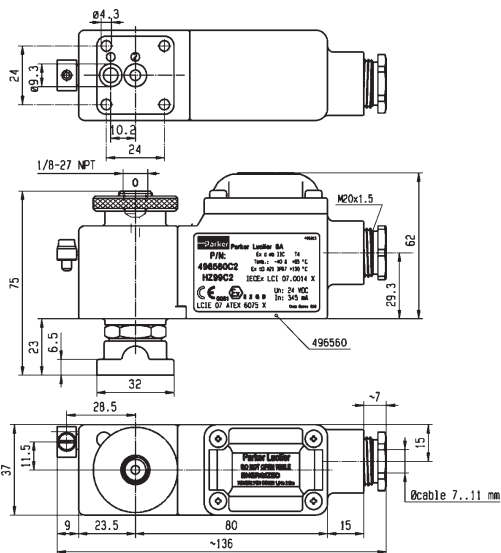
Port size	Orifice Ø	Flow factor			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C							AC W	DC W		
SB	2.5	3.5	0.21	220	0	-	12	-25	50	FKM	U131F7695	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8174
	2.5	3.5	0.21	220	0	12	12	-25	75	FKM	U131F7695	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8302
	2.5	3.5	0.21	220	0	12	12	-25	65	FKM	U131F7695	-	496700	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2/10.3	8174
	2.5	3.5	0.21	220	0	12	12	-25	50	FKM	U131F7695	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8309

Valves integrable in complete SIL 3 safety loops (IEC 61508).

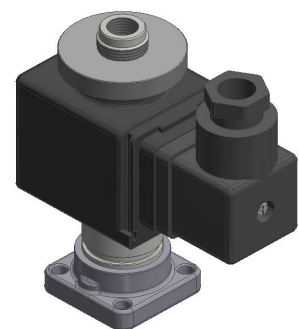
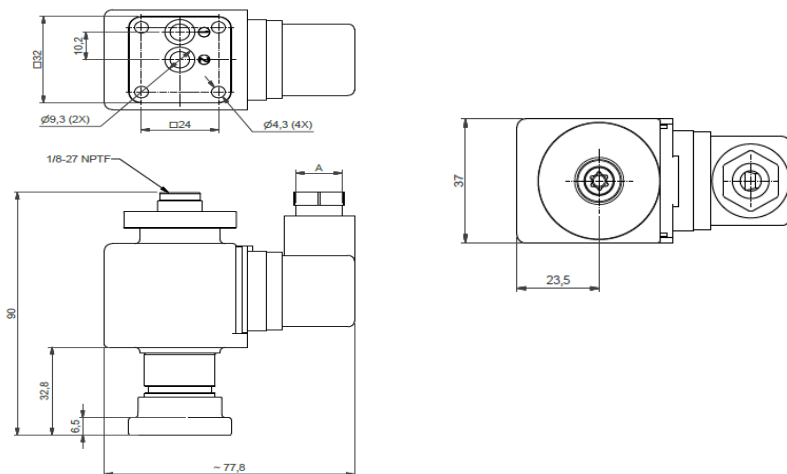




Drawing 8302



Drawing 8174

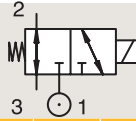


Drawing 8309

# X SERIES

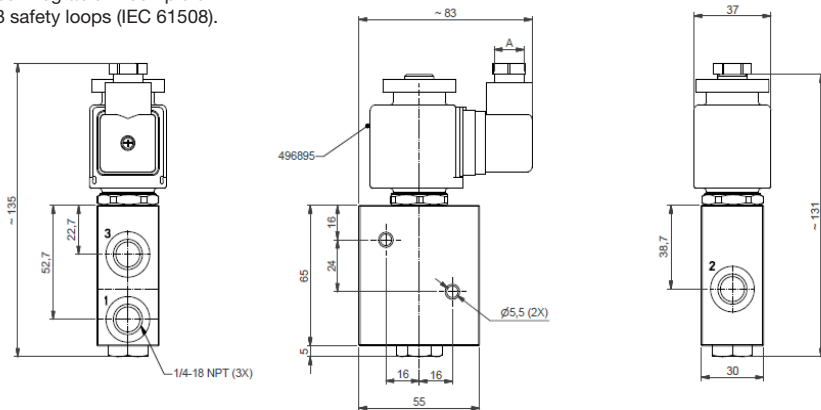
BRASS, ALUMINIUM, STAINLESS STEEL VALVES FOR PIPE MOUNTING

## BRASS PIPE MOUNTING UNIVERSAL

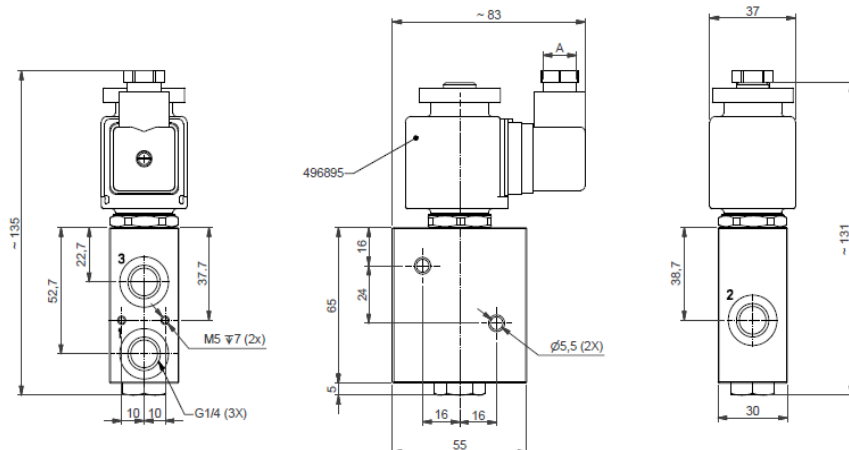


Port size	Orifice Ø mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min bar	Max (MOPD) AC bar	DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	6	680	0	-	12	-25	65	NBR	U133X0111	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8280
	6	680	0	12	12	-25	65	NBR	U133X0111	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	7422
	6	680	0	12	12	-25	65	NBR	U133X0111	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8280
	6	680	0	12	12	-25	65	NBR	U133X0111	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8280
	6	680	0	-	12	-25	65	NBR	U133X0111	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	7422
	6	680	0	12	12	-25	50	NBR	U133X0111	-	496895	-	-	8	8	9.0/10.1/10.2	8303
1/4" BSP	6	680	0	-	12	-25	65	NBR	133X01	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8280
	6	680	0	12	12	-25	75	NBR	133X01	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	6960
	6	680	0	12	12	-25	65	NBR	133X01	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8280
	6	680	0	12	12	-25	65	NBR	133X01	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8280
	6	680	0	-	12	-25	65	NBR	133X01	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	6960
	6	680	0	12	12	-25	50	NBR	133X01	-	496895	-	-	8	8	9.0/10.1/10.2	8304

Valves integrable in complete SIL 3 safety loops (IEC 61508).

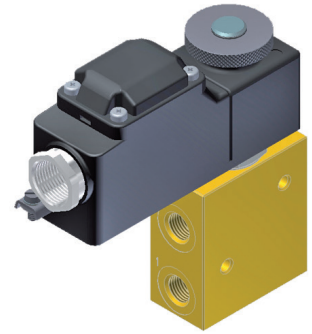
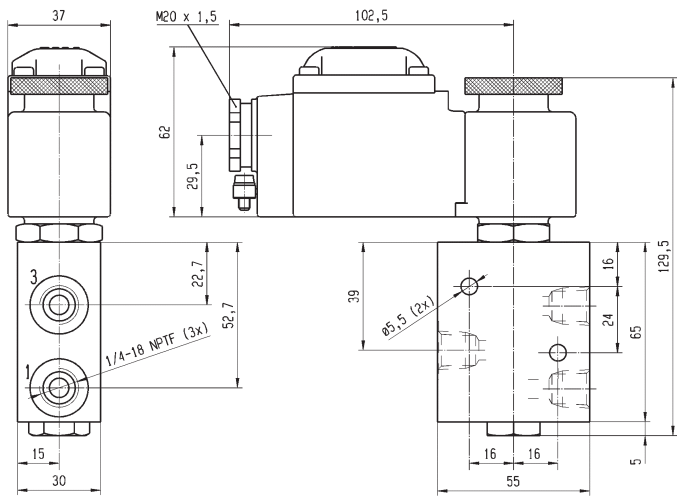


Drawing 8303

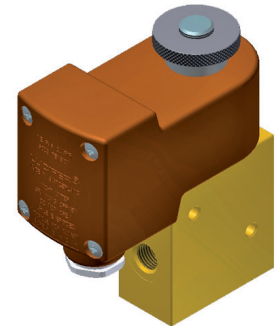
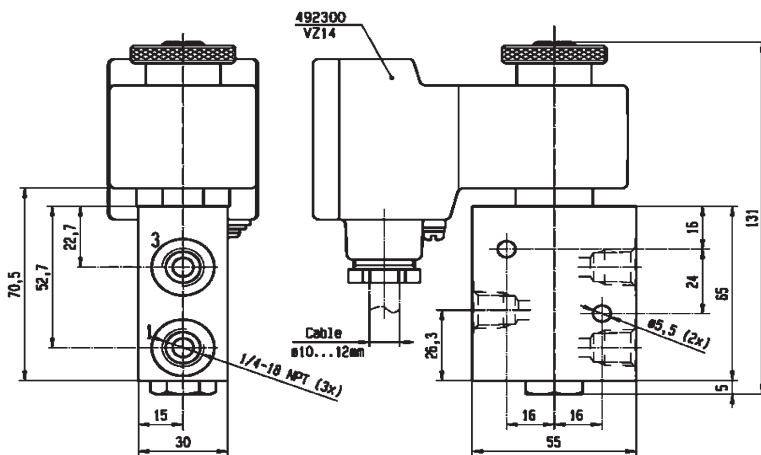


Drawing 8304

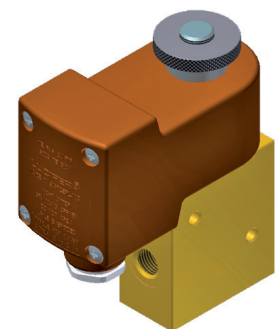
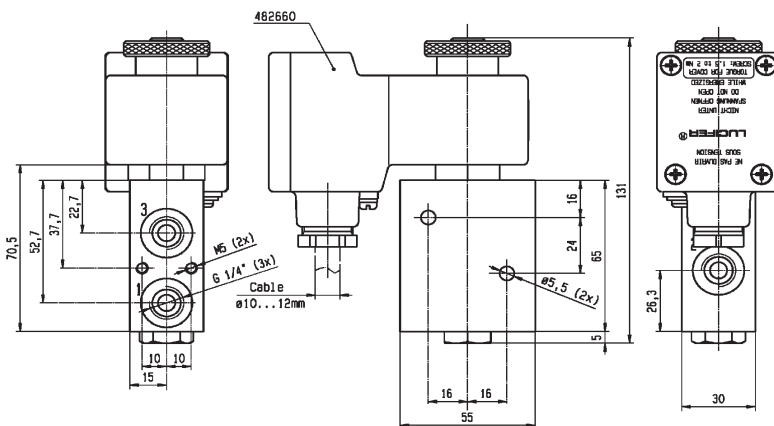




Drawing 8280



Drawing 7442



Drawing 6960

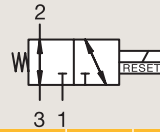
# 3 WAY VALVES DIRECT OPERATED

## X SERIES

BRASS, STAINLESS STEEL VALVES FOR PIPE MOUNTING

BRASS

PIPE MOUNTING

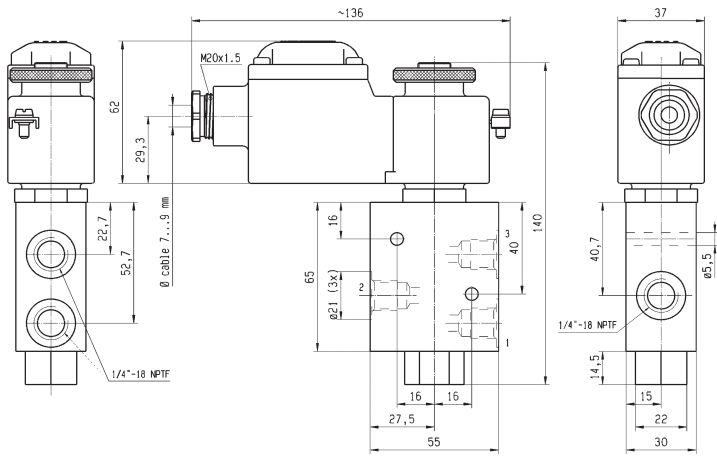


### UNIVERSAL- MANUAL RESET

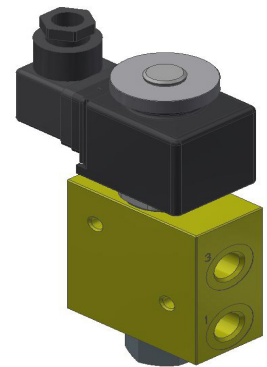
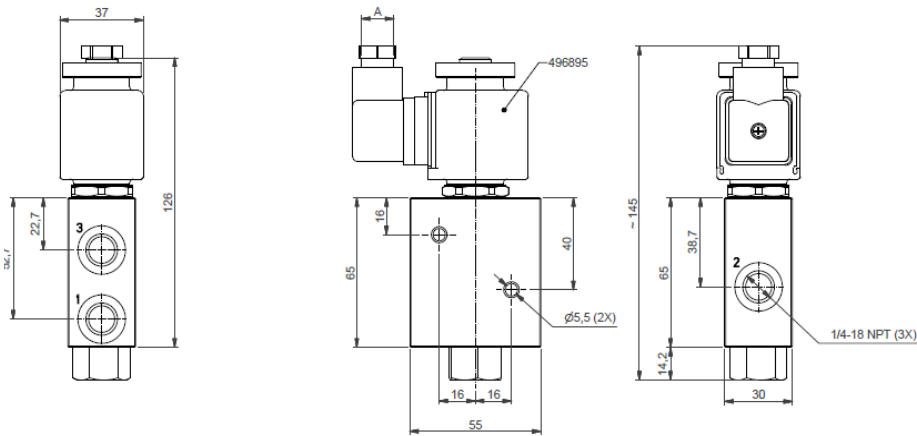
Port size	Orifice Ø mm	Flow factor Qn l/min	Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min bar	AC bar	DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	6	680	0	-	12	-25	65	NBR	U033X0111	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/12.0	8347
	6	680	0	12	12	-25	65	NBR	U033X0111	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2/12.0	7641
	6	680	0	12	12	-25	65	NBR	U033X0111	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/12.0	8347
	6	680	0	-	12	-25	65	NBR	U033X0111	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2/12.0	7641
	6	680	0	12	12	-25	65	NBR	U033X0111	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/12.0	8347
	6	680	0	12	12	-25	65	NBR	U033X0111	-	496895	-	-	8	8	9.0/10.1/10.2/12.0	8305

Valves integrable in complete SIL 3 safety loops (IEC 61508).

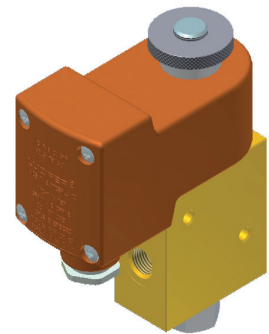
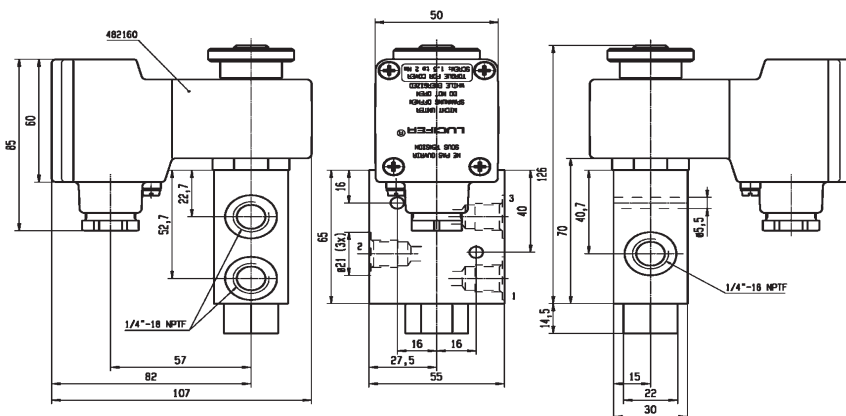




Drawing 8347



Drawing 8305



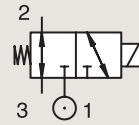
Drawing 7641

# 3 WAY VALVES DIRECT OPERATED

## X SERIES

BRASS, ALUMINIUM, STAINLESS STEEL VALVES FOR PIPE MOUNTING

316L STAINLESS ST.  
PIPE MOUNTING



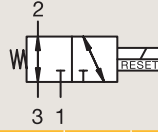
### UNIVERSAL

Port size	Orifice Ø mm	Flow factor Qn l/min	Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min bar	AC bar	DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	6	680	0	-	12	-25	65	NBR	U133X5156 <sub>12</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8168
	6	680	0	-	12	-25	65	NBR	U133X5156 <sub>12</sub>	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	7770
	6	680	0	12	12	-25	65	NBR	U133X5156 <sub>12</sub>	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	7770
	6	680	0	12	12	-25	65	NBR	U133X5156 <sub>12</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8168
	6	680	0	12	12	-25	65	NBR	U133X5156 <sub>12</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8168
	6	680	0	12	12	-25	50	NBR	U133X5156 <sub>12</sub>	-	496895	-	-	8	8	9.0/10.1/10.2	8310
	6	680	0	-	12	-25	65	NBR	U133X5196 <sub>2</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8169
	6	680	0	-	12	-25	65	NBR	U133X5196 <sub>2</sub>	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	6904
	6	680	0	12	12	-25	65	NBR	U133X5196 <sub>2</sub>	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	6904
	6	680	0	12	12	-25	65	NBR	U133X5196 <sub>2</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8169
	6	680	0	12	12	-25	65	NBR	U133X5196 <sub>2</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8169
	6	680	0	12	12	-25	50	NBR	U133X5196 <sub>2</sub>	-	496895	-	-	8	8	9.0/10.1/10.2	8311
	6	680	0	-	12	-25	65	FKM	U133X5195 <sub>2</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8172
	6	680	0	12	12	-25	65	FKM	U133X5195 <sub>2</sub>	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	3572
	6	680	0	12	12	-25	65	FKM	U133X5195 <sub>2</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8172
	6	680	0	-	12	-25	65	FKM	U133X5195 <sub>2</sub>	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	3572
	6	680	0	12	12	-25	65	FKM	U133X5195 <sub>2</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2	8172
	6	680	0	12	12	-25	50	FKM	U133X5195 <sub>2</sub>	-	496895	-	-	8	8	9.0/10.1/10.2	8315
	6	680	0	12	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	496895	-	-	8	8	9.0;10.1;10.2;10.3	8312
	6	680	0	-	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	496565	-	0-20 Ex ia IIB/IIC T4 to T6	-	0.3	9.0;10.1;10.2;10.3	8539
	6	680	0	12	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	497105	-	1-21 Ex db IIC T4 to T6	8	8	9.0;10.1;10.2;10.3	8537
	6	680	0	12	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	496700	-	1-21 Ex db mb IIC T4 to T6	6	6	9.0;10.1;10.2;10.3	8545
	6	680	0	12	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	492310	-	1-21 Ex db II T4 to T5	9	8	9.0;10.1;10.2;10.3	8548
	6	680	0	-	12	-40	65	VMQ	U133X7759 <sub>1,2</sub>	-	492210	-	1-21 Ex eb mb IIC T5 to T6	-	1.8	9.0;10.1;10.2;10.3	8548
	6	680	0	12	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	496895	-	-	8	8	9.0;10.1;10.2;10.3	8551
	6	680	0	-	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	496565	-	0-20 Ex ia IIB/IIC T4 to T6	-	0.3	9.0;10.1;10.2;10.3	8550
	6	680	0	12	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	497105	-	1-21 Ex db IIC T4 to T6	-	-	9.0;10.1;10.2;10.3	8401
	6	680	0	12	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	496700	-	1-21 Ex db mb IIC T4 to T6	-	-	9.0;10.1;10.2;10.3	8550
	6	680	0	12	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	492310	-	1-21 Ex mb II T4 to T5	-	-	9.0;10.1;10.2;10.3	8400
	6	680	0	-	12	-40	65	VMQ	U133X7709 <sub>2</sub>	-	492210	-	1-21 Ex eb mb IIC T5 to T6	-	-	9.0;10.1;10.2;10.3	8400

**Notes:**

1. With manual override
2. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

316L STAINLESS ST.  
PIPE MOUNTING



UNIVERSAL- MANUAL RESET

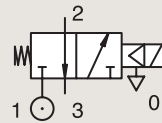
Port size	Orifice Ø mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C							AC W	DC W		
1/4" NPT	6	680	0	12	12	-25	65	NBR	U033X5156 <sub>1</sub>	-	492310	1-21	Ex mb II T4 to T5	6	6	10.1/10.2/12.0	7770
	6	680	0	12	12	-25	65	NBR	U033X5156 <sub>1</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	8168
	6	680	0	12	12	-25	65	NBR	U033X5156 <sub>1</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	10.1/10.2/12.0	8168
	6	680	0	12	12	-25	65	NBR	U033X5156 <sub>1</sub>	-	496895	-	-	8	8	10.1/10.2/12.0	8310
	6	560	0	-	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/12.0	3594
	6	560	0	12	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2/12.0	3594
	6	560	0	12	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/12.0	3594
	6	560	0	-	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2/12.0	3594
	6	560	0	12	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/12.0	3594
	6	560	0	12	12	-25	65	NBR	U033X5195 <sub>1</sub>	-	496895	-	-	8	8	9.0/10.1/10.2/12.0	8314
	6	680	0	12	12	-40	65	VMQ	U033X7759 <sub>1</sub>	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8310
	6	680	0	12	12	-40	65	VMQ	U033X7759 <sub>1</sub>	-	497105	1-21	Ex db mb IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8537
	6	680	0	12	12	-40	65	VMQ	U033X7759 <sub>1</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/10.3	8545
6	680	0	12	12	-40	65	VMQ	U033X7759 <sub>1</sub>	-	492310	1-21	Ex mb II T4 to T5	9	8	9.0/10.1/10.2/10.3	8546	

Notes:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

Valves integrable in complete  
SIL 3 safety loops (IEC 61508).

316L STAINLESS ST.  
PIPE MOUNTING



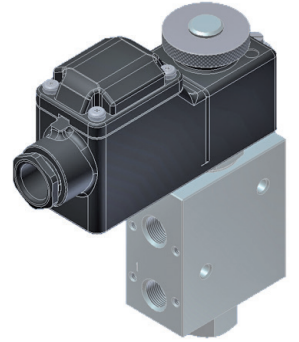
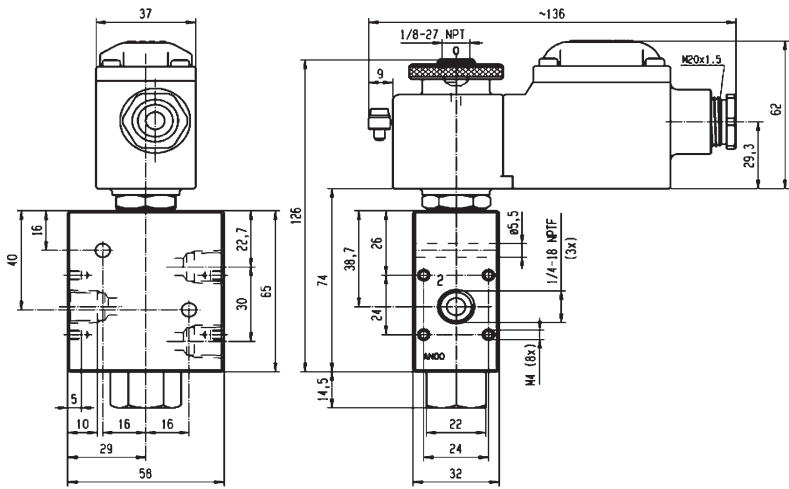
NORMALLY CLOSED

Port size	Orifice Ø mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C							AC W	DC W		
1/2" NPT	14	2500	3	-15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8316
	14	2500	3	15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8316
	14	2500	3	15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8316
	14	2500	3	15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/10.3	8316
	14	2500	3	15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	492310	1-21	Ex mb II T4 to T5	9	8	9.0/10.1/10.2/10.3	8316
	14	2500	3	15	15	-30	65	VMQ	U331X2309 <sub>1</sub>	-	496555	1-21	Ex db mb IIC T4 to T6	6	6	9.0/10.1/10.2/10.3	8316

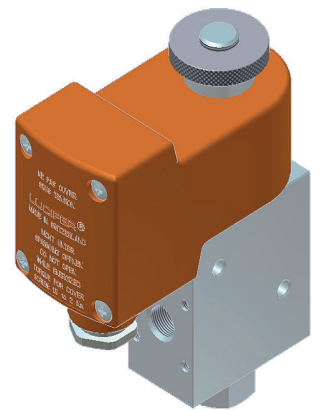
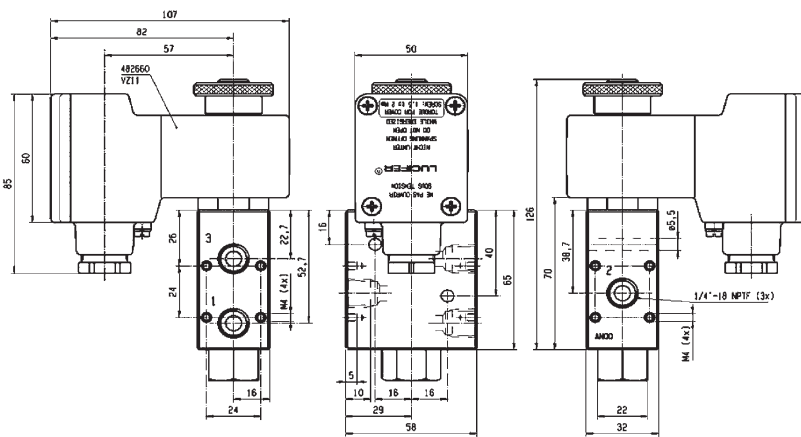
Notes:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

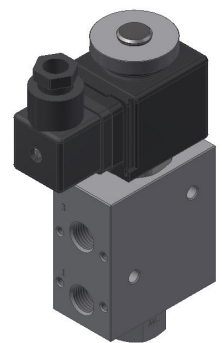
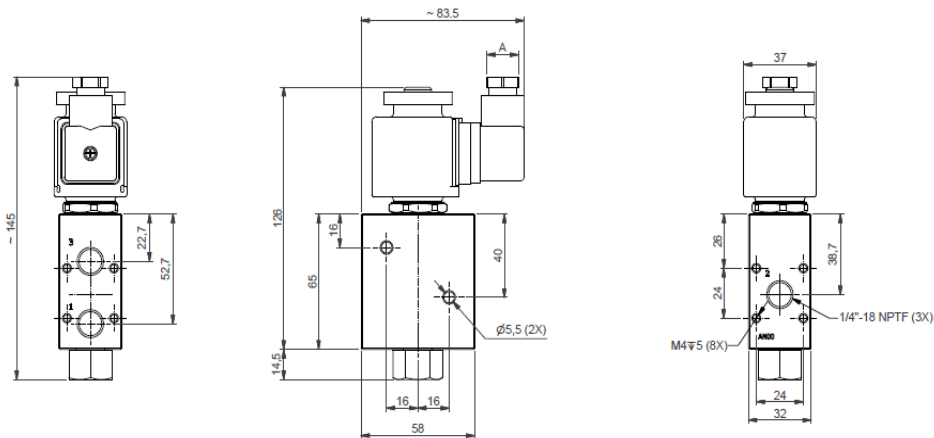
Valves integrable in complete  
SIL 3 safety loops (IEC 61508).



Drawing 8168

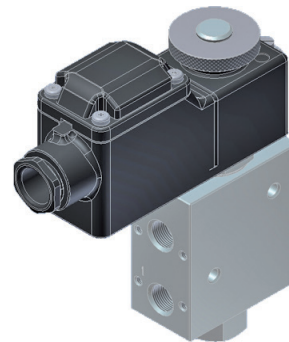
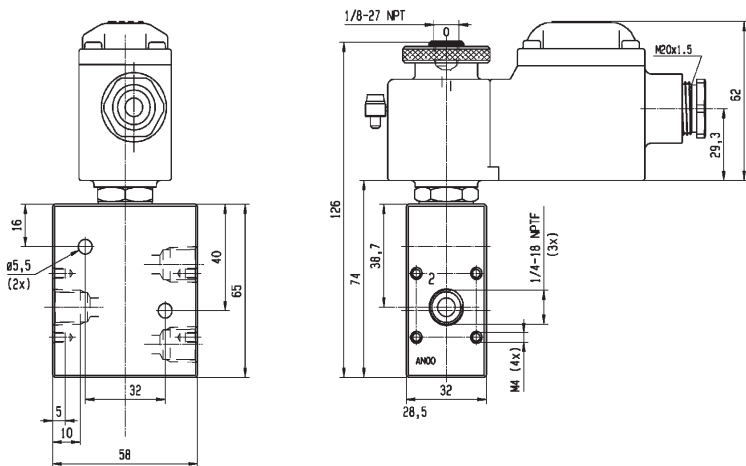


Drawing 7770

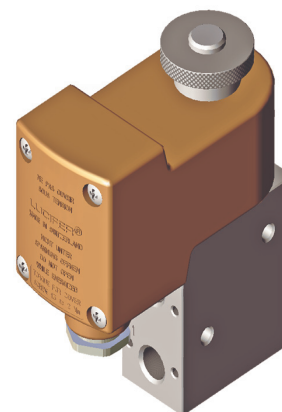
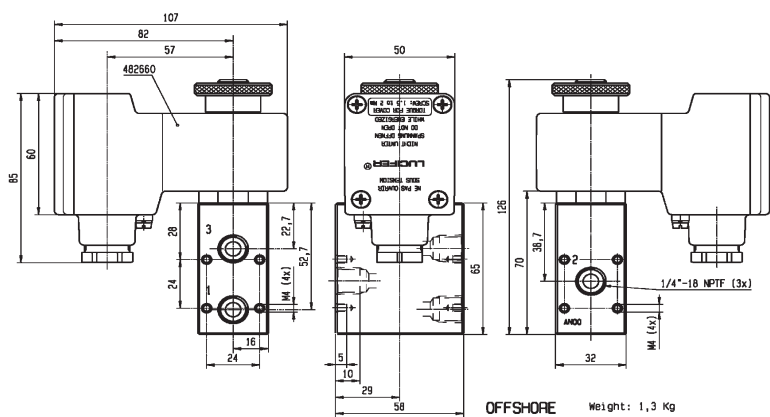


Drawing 8310

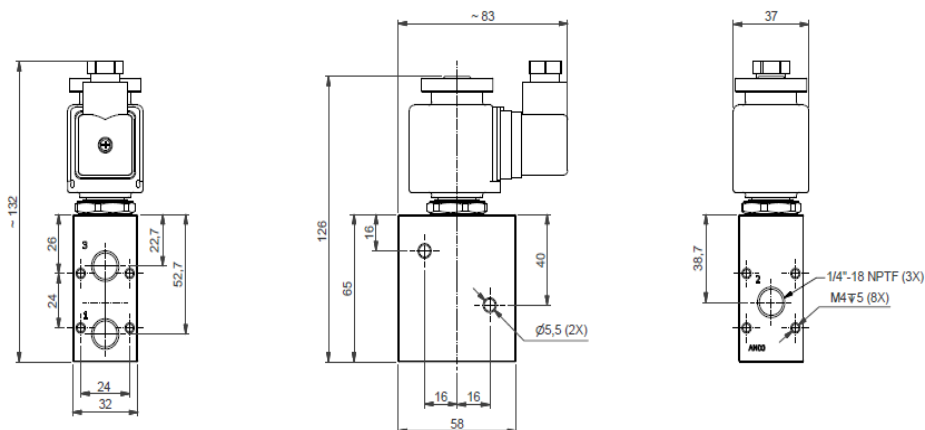




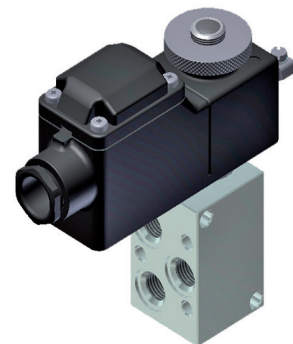
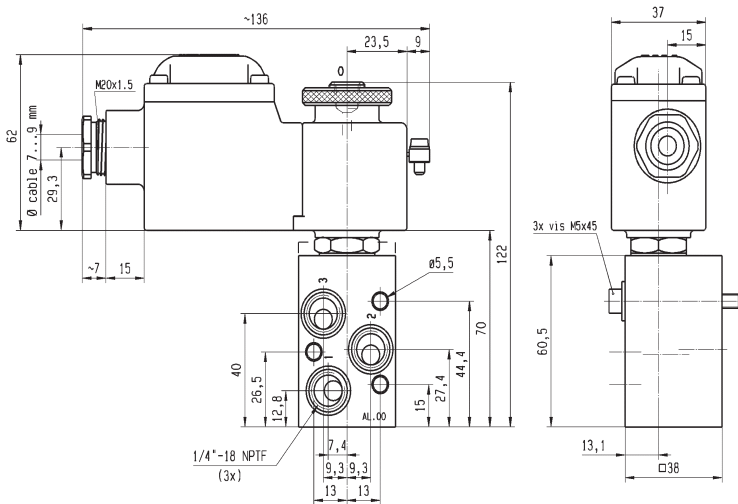
Drawing 8169



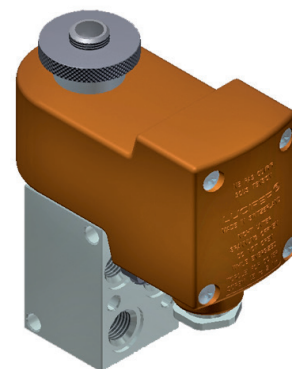
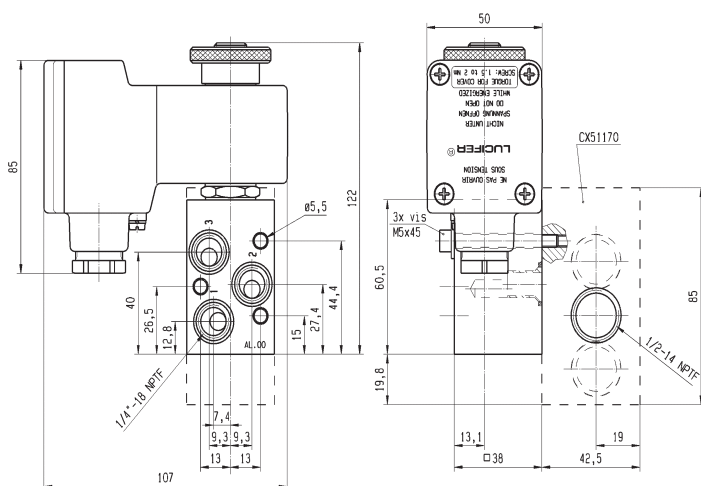
Drawing 6904



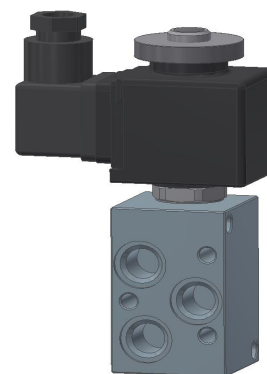
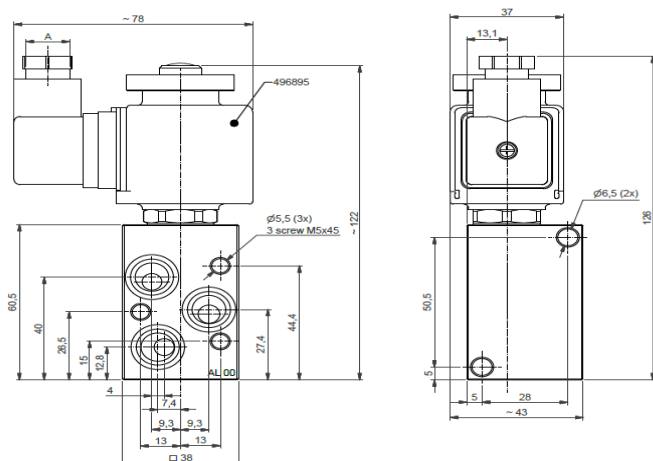
Drawing 8311



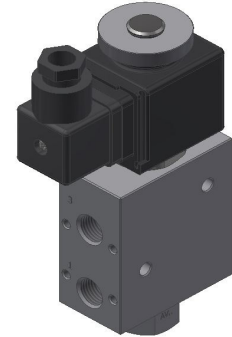
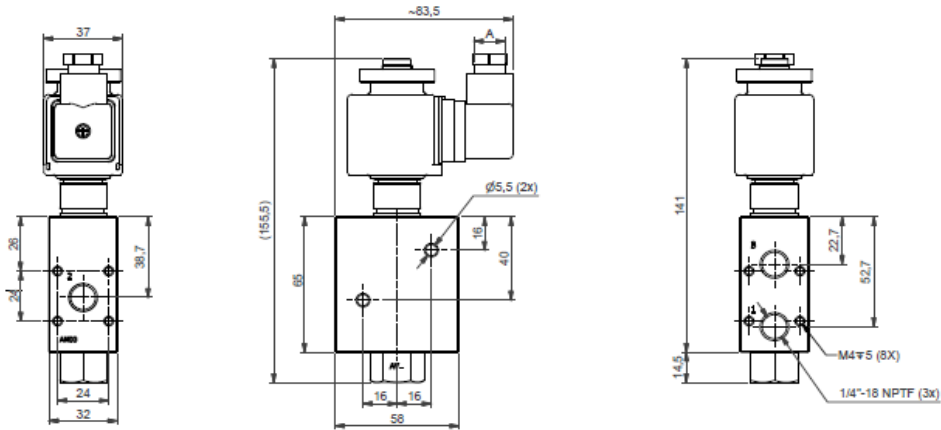
Drawing 8172



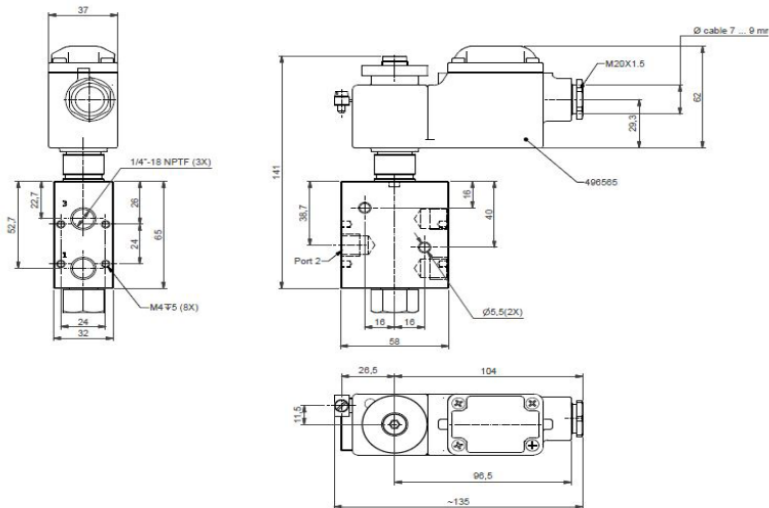
Drawing 3572



Drawing 8315

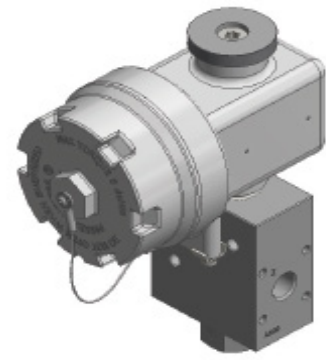
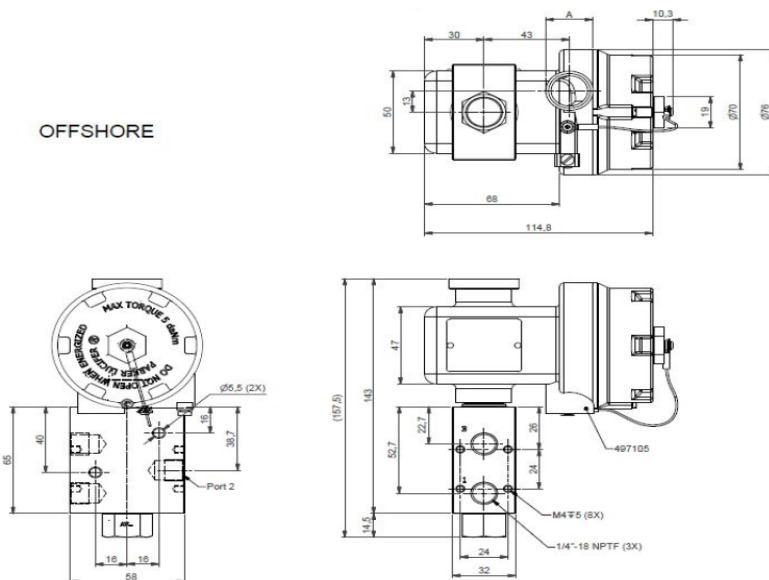


Drawing 8312

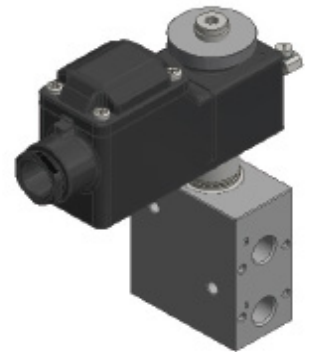
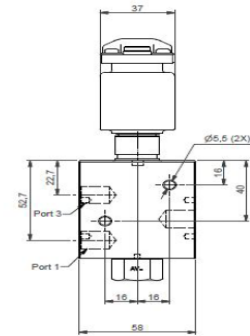
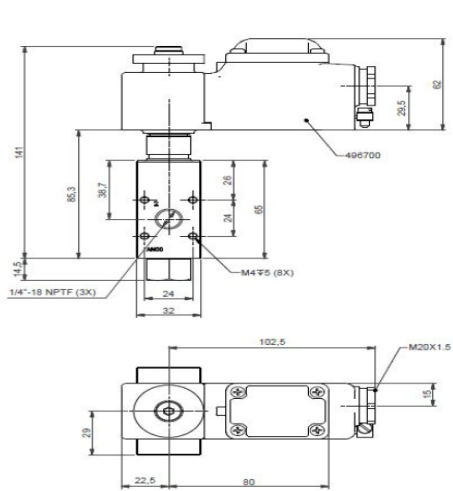


Drawing 8539

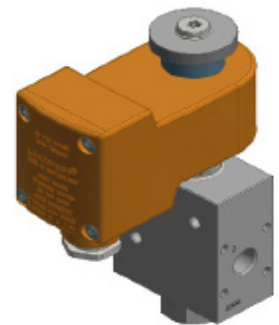
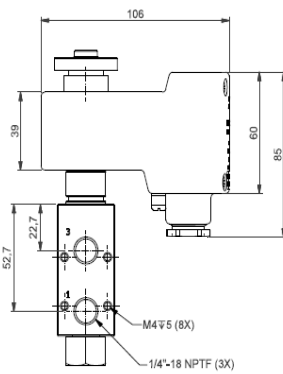
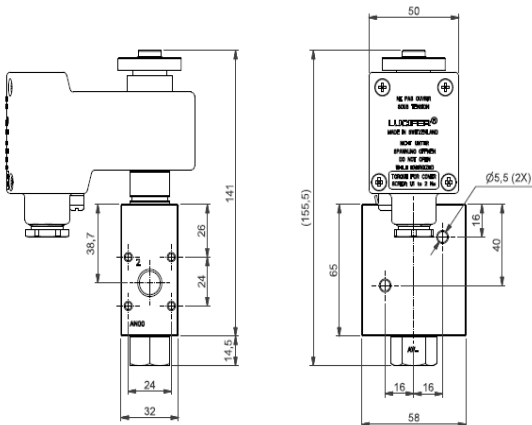
OFFSHORE



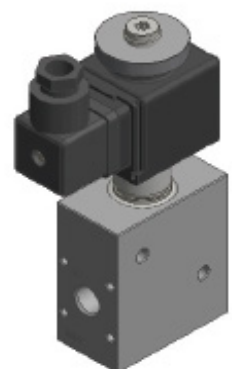
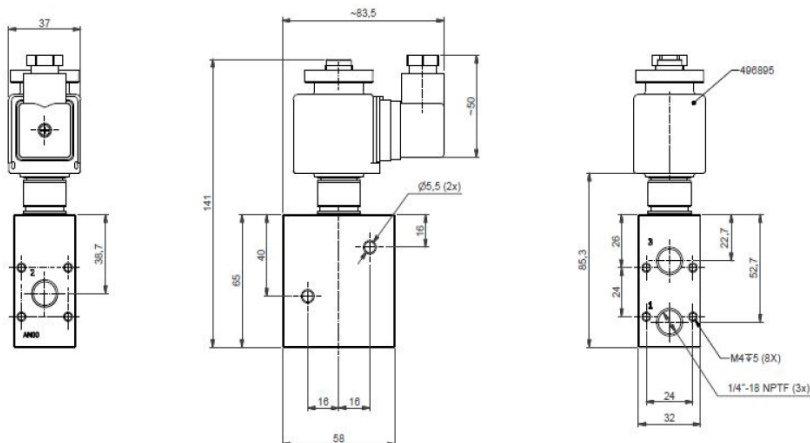
Drawing 8537



Drawing 8545

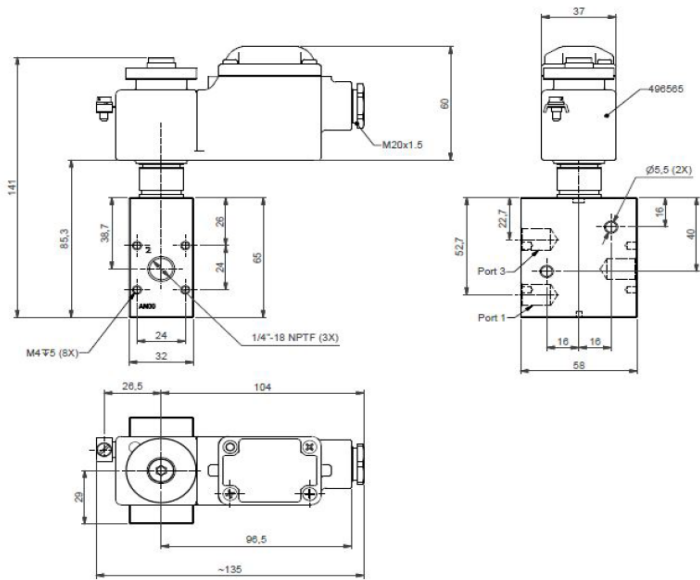


Drawing 8548

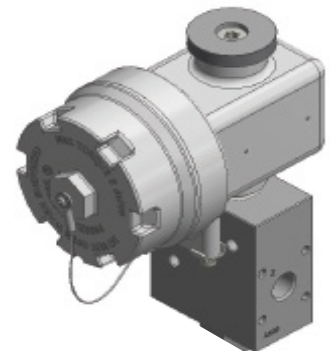
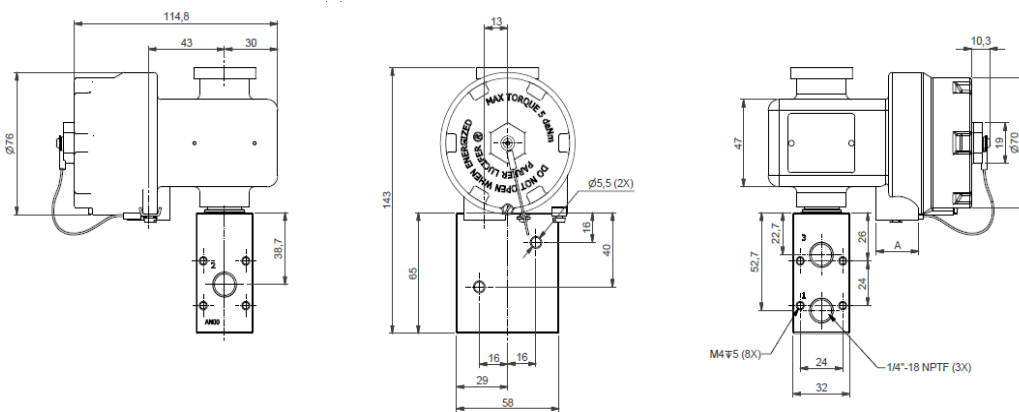


Drawing 8551

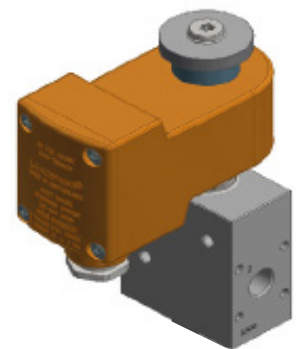
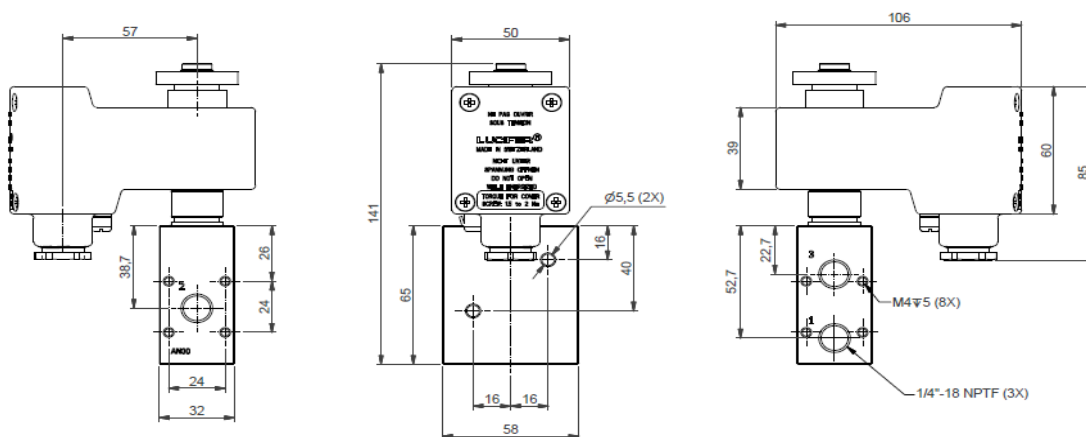




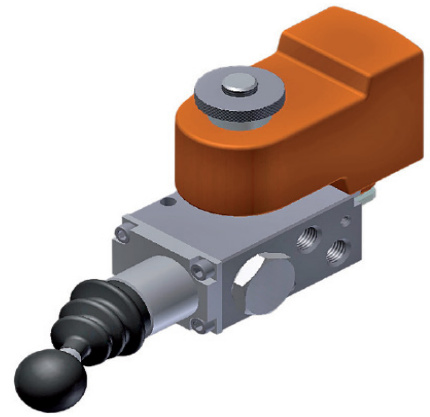
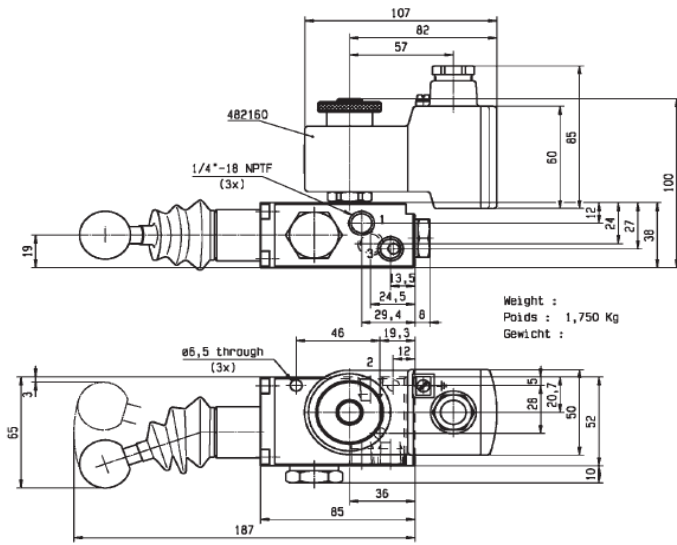
Drawing 8550



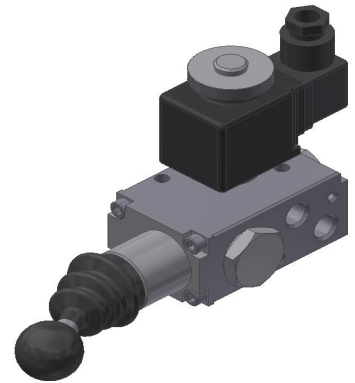
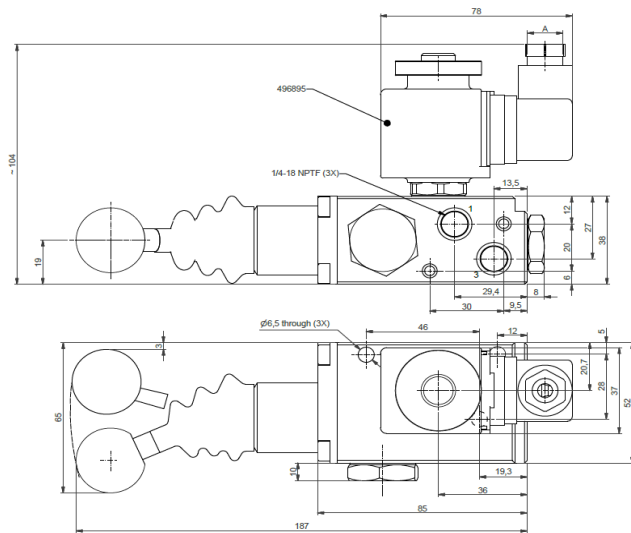
Drawing 8401



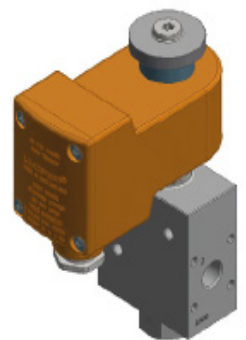
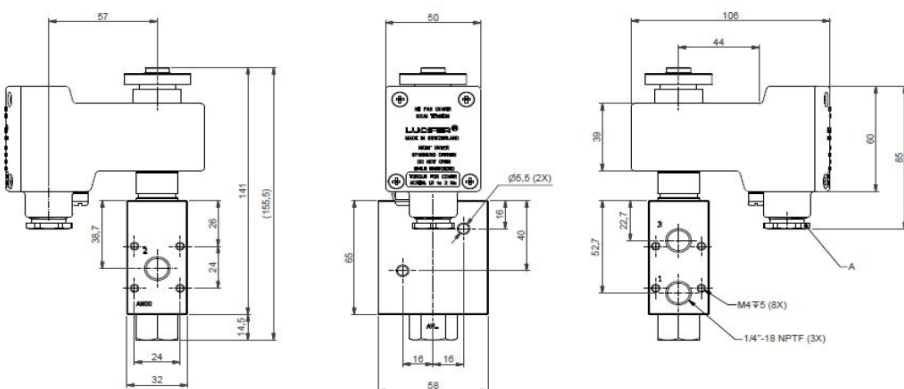
Drawing 8400



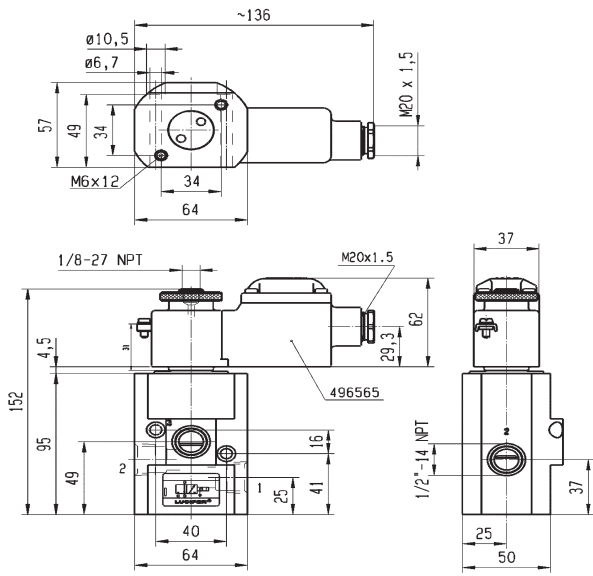
Drawing 3594



Drawing 8314



Drawing 8546



Drawing 8316

# 3 WAY VALVES DIRECT OPERATED

LOW POWER A03 SERIES MANUAL RESET, STAINLESS STEEL VALVES FOR PIPE MOUNTING

316L STAINLESS ST.  
PIPE MOUNTING



## UNIVERSAL

Port size	Orifice Ø mm	Flow factory KV		Operating Pressure Differential (bar)		Ambient Temp. <sup>(1)</sup>		Basic part number Body	Power level	Power (cold)		Dwg. No.
		m <sup>3</sup> /h	l/min	Min	Max ~/=	Min °C	Max °C			AC W	DC W	
1/4" NPT	5.7	0.45	7.5	0	10	-45	100	A03RN*24**-R	RP	3.6	3.6	1
	5.7	0.45	7.5	0	10	-45	100	A03RN*24**-L	LP	-	1.8	1

### Notes:

Please define the complete ordering system in accordance with the desired configuration.

The Numbering system configurator is shown below:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	3	R	N	2	4	M	0	-	L	R	D	N	C	2

#### 4 : Body material

R	SS, 316L
---	----------

#### 8,9: Manual operator selection

MN	None manual operator function
M0	Manual operator function
MS	Manual reset function

#### 12,13,14 : Coil type and cable thread

ADM	NPT 1/2	Flameproof-Alluminium, "d" type Ex housing
ADM	M20X1.5	(EN/IEC 60079-31)
RDN	NPT 1/2	Flameproof-316 SS, "d" type Ex housing
RDM	M20X1.5	(EN/IEC 60079-31)

#### 5,6 : Body pipe size

N2	1/4" NPT
G2	1/4" BSPP

#### 11: Coil power level

R	Reduce power, 3, 2-3, 6 W
L	Low power, 1.5-1.8 W

#### 7: Ambient temp.

4	-45°C to 100°C
---	----------------

#### 15,16: Coil voltage

C1	12VDC	RP,LP Available
C2	24VDC	RP, LP Available
C4	48VDC	RP,LP Available
C5	110VDC	RP,LP Available
3N	125VDC	RP Available
B1	24 W / 50 Hz	RP Available
B2	24 W / 60 Hz	RP Available
E6	100 V / 50 Hz	RP Available
0A	110-120 V / 50 Hz	RP Available
F2	200 V / 50 Hz	RP Available
3D	220-230 V / 50 Hz	RP Available
K7	110 V / 60 Hz	RP Available
3K	100-120 V / 60 Hz	RP Available
J2	200 V / 60 Hz	RP Available
7J	220-230 V / 60 Hz	RP Available



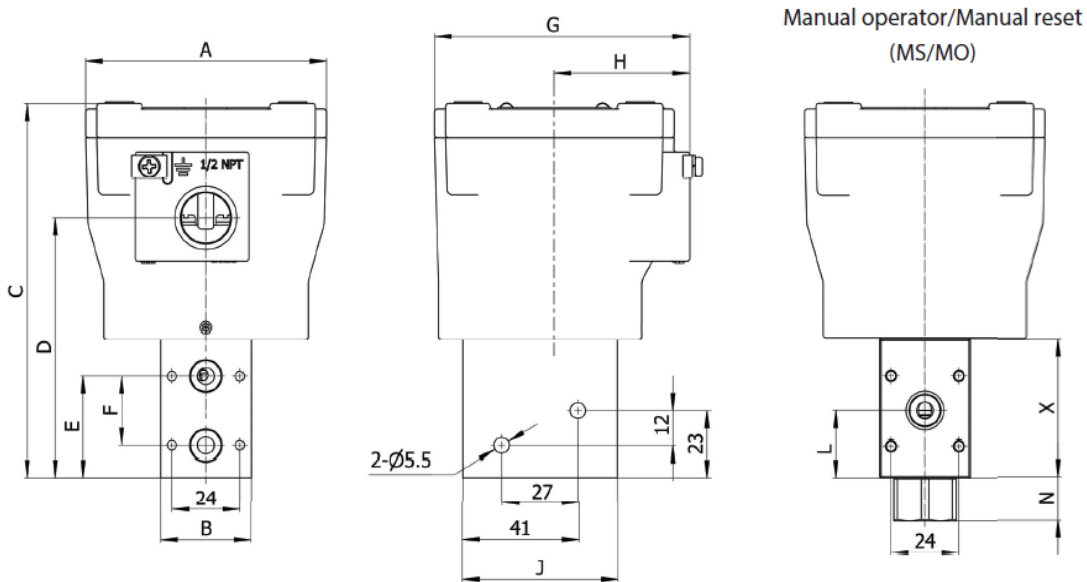
Coil specification	Reduced Power (RP)		Low Power (LP)	
	hot 3.2 W	cold 3.6 W	hot 1.5 W	cold 1.8 W
Safety code	II2G Ex d IIC Gb T6/T5/T4 II2D Ex t IIIC Db		II2G Ex d IIC Gb T6/T5/T4 II2D Ex t IIIC Db	
Electrical enclosure protection (EN 60529)	IP66/67, Al/SS		IP66/67, Al/SS	
Operator ambient temperature range (C)	-60 to + 65/80/110°C		-60 to + 65/80/110°C	

(1) Valve temperature range:

The valve temperature range (TS) is determined by the selected seal material, the temperature range for proper operations of the valve and sometimes by the fluid

(2) Operator ambient temperature range:

The operator ambient temperature range is determined by the selected power level and the safety code.



Drawing 1

Coil Type	A	B	C	D	E	F	G	H	J	L	N	X	Weight (Kg)
RDN,RDM	85	32	130	90	35	24	91	48	55	23	54	48	2.78
ADN,ADM	85	32	130	90	35	24	91	48	55	23	54	48	1.75

# Coil Availability

## COILS

COIL GROUP

10.1

COILS FOR  
DIN PLUG CONNECTION



## COIL FOR OIL AND GAS 37 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

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/GENELEC safety standards and complies with European low-voltage directive. DIN plug connector included (The AC electrical connection is delivered with a rectifier bridge).

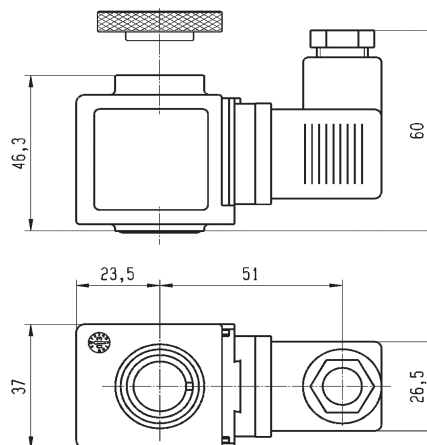


Specification		Coil for Oil and Gas			
Reference (with DIN plug)		496895			
Coil group		10.1			
Degree of protection		IP65 according to IEC / EN 60529 standards			
Class of insulation		H 180°C			
Electrical connection		With DIN plug 492459 (AC) or 486586 (DC)			
Ambient temperature		-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	8 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	8 W		
		Attraction cold	-		
Weight		273 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		230/50-60	P9	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: 496895 for 24 VDC = 496895C2

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

The fixing nut (housing kit) is already included in the coil kit.



## 497105 & 497105.02 - ELECTRICAL PARTS

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.  
See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex db IIC T4 / T5 / T6 is required.

**Benefits:** Rotatable 360°, stainless steel with internal and external screw terminals for earth connection.

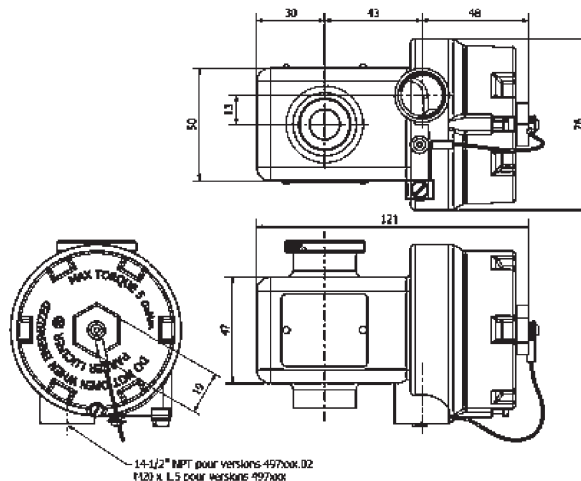
Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



<b>Reference</b>		<b>497105 (M20x1.5)</b> <b>497105.02 (NPT 1/2")</b>			
<b>Certificate</b>		<b>INERIS 12ATEX0041X - IECEx INE 12.0034X</b>			
<b>Coil Group</b>		<b>10.3</b>			
<b>Type of protection</b>	<b>Gas</b>	II 2 G - Ex db IIC T4 / T5 / T6			
	<b>Dust</b>	II 2 D - Ex tb IIIC - 130°C / 95°C / 80°C			
<b>Degree of protection</b>		<b>IP66</b> (with relevant cable gland) according to IEC/EN 60529 Standards			
<b>Ambient temperature</b>		-50°C to +80°C / +60°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve			
<b>Insulation Class</b>		F 155°C			
<b>Electrical connection</b>		Electric connection is done in the connection chamber on an easily accessible connector terminals. The cable entry to the connection chamber is made through a 1/2" NPT or M20x1.5 thread in which an approved Exdb IIC cable gland must be installed.			
<b>Electrical consumption</b>	<b>DC</b>	<b>Pn (hot)</b>	8 W		
		<b>P (cold) 20°C</b>	9 W		
	<b>AC</b>	<b>Pn (holding)</b>	8 W		
		<b>Attraction cold</b>	9 W		
<b>Voltage Tolerance</b>		+/- 10% of nominal voltage			
<b>Emergising Cuty</b>		ED 100%			
<b>Voltages</b>		<b>VAC/Hz</b>	<b>Code</b>	<b>VDC</b>	<b>Code</b>
		24/50-60	P0	12	C1
		110-115 / 50-60	1P	24	C2
		220-230 / 50-60	3P	48	C4
				110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 497105 for 24 VDC = 497105C2

Coil delivered with an individual material traceability certificate (3.1 following EN10204)





IECEX certified



## 496700 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.  
See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

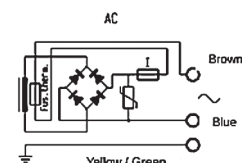
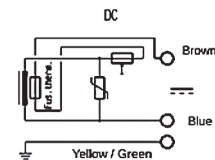
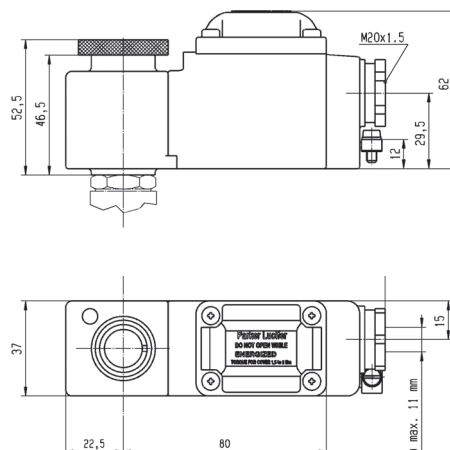
**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with 1/2" NPT or M20 x 1.5 threaded hole for wide range of cable glands. Small size for ease of mounting in confined space.



<b>Reference</b>		<b>496700 or 496700.02 (NPT)</b>			
<b>Certificate</b>		<b>LCIE 10 ATEX 3059 X - IECEX LCI 10.0023X</b>			
<b>Coil Group</b>		<b>10.2</b>			
<b>Type of protection</b>	<b>Gas</b>	II 2 G - Ex db mb IIC T4 / T5 / T6			
	<b>Dust</b>	II 2 D - Ex tb IIC - T130 / 95 / 80°C			
<b>Degree of protection</b>		<b>IP67</b> according to IEC/EN 60529 Standards			
<b>Ambiant temperature</b>		-40°C to +35°C / +50°C / +65°C The application is limited also by the temperature range of the valve.			
<b>Class of insulation</b>		H (180°)			
<b>Electrical connection</b>		Electric connection is done in the connection box passes through a 1/2 NPT or M20x1.5 thread in which a certified Ex dBIC cable gland must be installed			
<b>Elect. Power</b>	<b>DC</b>	<b>Pn (hot)</b>	-	6 W	
		<b>P (cold) 20°C</b>	-	7.5 W	
	<b>AC</b>	<b>Pn (holding)</b>	6 W	-	
		<b>Attraction cold</b>	7.5 W	-	
<b>Voltages "Un"</b>		<b>VAC/Hz</b>	<b>Code</b>	<b>VDC</b>	<b>Code</b>
-10% to +10% of the Un		230/50-60	P9	24	C2
		110/50-60	P2	48	C4
		24/50-60	P0	110	C5
		48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496700 for 24 VDC = 496700C2







## 492210 - ELECTRICAL PARTS "BOOSTER" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection - Ex eb mb IIC T5/T6 is required.

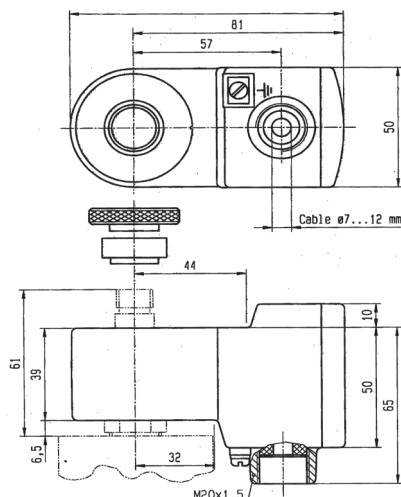
**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Available only in 24 VDC (suffix code : C2)



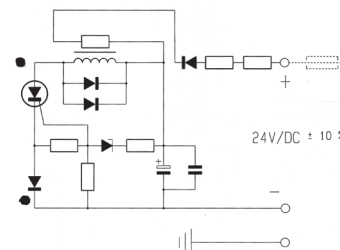
Reference	492210	
Certificate	LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X	
Coil group	9.0	
Type of protection	Gas	II 2 G - Ex eb mb IIC T5 / T6
	Dust	II 2 D - Ex tb IIC - T95°C / T80°C
Degree of protection	IP66 according to IEC/EN 60529 Standards	
Ambient temperature	-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve	
Insulation Class	F 155°C	
Electrical connection	Connection box with terminals and cable entry via gland M20 x 1.5 Possibility for additional earth via external screw	
Power consumption DC	1 to 1.8 W according to length of cable	
Attraction current	I min = 60 mA (I nominal = 75 mA)	
Voltage DC	U nominal = 24 VDC (C2), Umin = 21.6 VDC	
Resistance	23 Ω + (R = 270 Ω)	
Inductance	0 mH	
Capacitance	0 μF	
Response time	2 - 4 s	
Weight	500 g	

To Order a Coil choose Coil Ref + Voltage Code, example: 492210 for 24 VDC = 492210C2



Indications:

Booster for Offshore valves



These electrical parts need an external fuse of I = 100 mA

## 496555 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

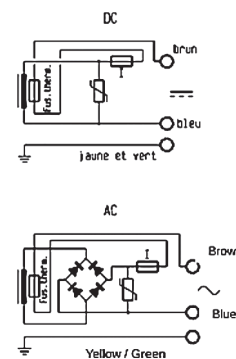
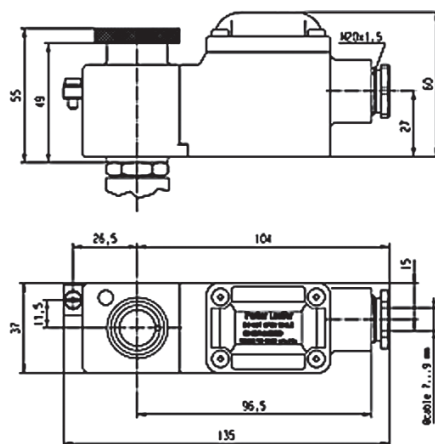
**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



<b>Reference</b>		<b>496555</b>			
<b>Certificate</b>		<b>LCIE 07 ATEX 6075 X - IECEx LCI 07.0014X</b>			
<b>Coil Group</b>		<b>10.2</b>			
<b>Type of protection</b>	<b>Gas</b>	II 2 G - Ex db mb IIC T4 / T5 / T6			
	<b>Dust</b>	II 2 D - Ex tb III C - T130°C / 95°C / 80°C			
<b>Degree of protection</b>		<b>IP 67</b> according to IEC/EN 60529 Standards			
<b>Ambiant temperature</b>		-40°C to +65 / 50 / 35°C The application is limited also by the temperature range of the valve.			
<b>Class of insulation</b>		H (180 °)			
<b>Electrical connection</b>		Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland.			
<b>Elect. Power</b>	<b>DC</b>	<b>Pn (hot)</b>	-	6 W	
		<b>P (cold) 20°C</b>	-	7.5 W	
	<b>AC</b>	<b>Pn (holding)</b>	6 W	-	
		<b>Attraction cold</b>	7.5 W	-	
<b>Voltages "Un"</b>		<b>VAC/Hz</b>	<b>Code</b>	<b>VDC</b>	<b>Code</b>
-10% to +10% of the Un		230/50-60	P9	24	C2
		110/50-60	P2	48	C4
		24/50-60	P0	110	C5
		48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496555 for 24 VDC = 496555C2



COIL GROUP

9.0

INTRINSICALLY SAFE  
ELECTRICAL PARTS  
"ia"IECEX  
certified

## 492965 ELECTRICAL PART "BOOSTER" "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

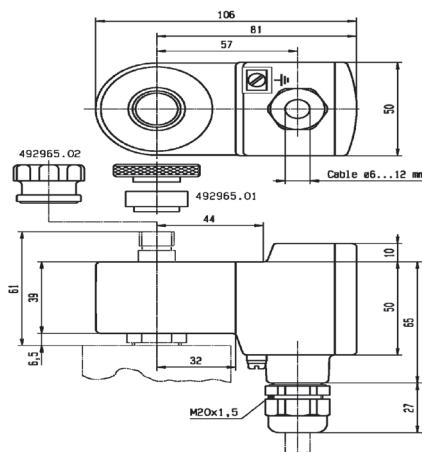
**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference	492965.01 - (Stainless steel fixation) 492965.02 - (Plastic fixation)		
Certificate	LCIE 02 ATEX 6066 X - IECEx LCI 07.0007 X		
Coil Group	9.0		
Type of protection	Gas	II 1 G - Ex ia IIC - T6	
	Dust	II 1 D - Ex ta IIIC - T80°C	
Degree of protection	IP66 according to IEC/EN 60529 Standards		
Ambient temperature	- 40°C to +65°C The application is limited also by the temperature range of the valve.		
Electrical connection	Cable connection through a plastic or stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.		
Class of insulation	H180°C		
Maximum supply voltage	28 VDC (N7) - 110 mA		
Power	DC	Minimum	0.3 W (with 13 VDC)
		Maximum	2.3 W (with 24 VDC)
			Depending on applied voltage, IS barrier type and resistance of connected cable
Line check	4 mA or 5 VDC max		
Coil resistance at 20°C	85 Ω		
Impedance	275 Ω (with 13 VDC) - 260 Ω (with 24 VDC)		
Apparent inductance	0 mH		
Apparent capacitance	0 μF		
Response time	2 - 4 s		
Weight	500 g		

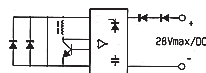
To Order a Coil choose Coil Ref + Voltage Code, example: 492965.01 for 28 VDC = 492965.01N7



## Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a minimum operating current of 29 mA through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

## 482870.01 ELECTRICAL PART "IS" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where an explosion-proof protection Ex ia IIC or IIB T6 is required.

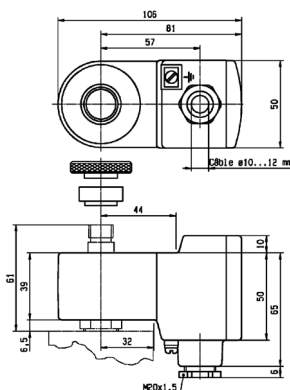
**Benefits:** Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference	482870.01	
Certificate	LCIE 02 ATEX 6024 X	
Coil Group	12.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T6
	Dust	II 1 D - Ex ta IIC - T80°C
Degree of protection	IP66 according to IEC/EN 60529 Standards	
Ambiant temperature	- 40°C to +65°C The application is limited also by the temperature range of the valve.	
Class of insulation	H180°C	
Electrical connection	Cable connection through a stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.	
Maximum supply voltage	28 VDC (N7) - 110 mA	
Power	DC	Minimum
		Maximum
		300 mW
		3 W
Depending on applied voltage, IS barrier type and resistance of connected cable		
Coil resistance at 20°C	295 Ω	
Impedance	345 Ω	
Apparent inductance	0 mH	
Apparent capacitance	0 μF	
Weight	500 g	

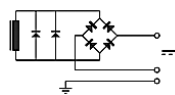
To Order a Coil choose Coil Ref + Voltage Code, example: 482870.01 or 28VDC = 482870.01N7



### Important

The intrinsic safety supply circuit must have sufficient capacitance in all ambient conditions to guarantee a minimum operating current in excess of 29 mA across the coil.

The minimum current for holding in the energised position is 20 mA



For the barrier compatibility see the corresponding table in appendix section.

COIL GROUP  
**10.1**

INCREASED SAFETY  
AND ENCAPSULATED  
ELECTRICAL PARTS "eb mb"



## 492310 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb mb II T4 to T5 is required.

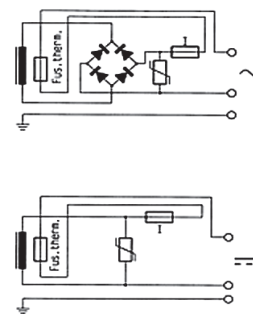
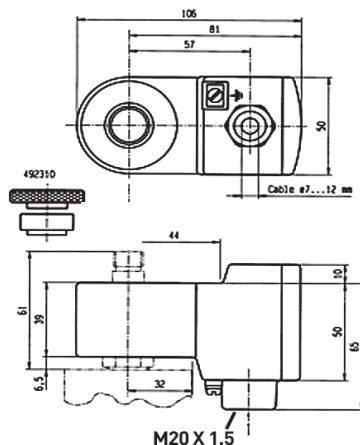
**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		492310			
Certificate		LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X			
Coil group		10.1			
Type of protection	Gas	II 2 G - Ex eb mb II T4 / T5			
	Dust	II 2 D - Ex tb IIIC - T130°C / T95°C			
Degree of protection		IP66 according to IEC/EN 60529 Standards			
Ambiant temperature		-40°C to +75°C / to +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Class of insulation		F 155°C			
Electrical connection		Connection box with terminals and cable entry via gland M20 x 1.5 - Possibility for additional earth via external screw.			
Elect. Power	DC	Pn (hot)	6 W		
		P (cold) 20°C	7.5 W		
	AC	Pn (holding)	6 W		
		Attraction cold	7.5 W		
Weight		500 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		230/50-60	P9	24 48	C2 C4

To Order a Coil choose Coil Ref + Voltage Code, example: 492310 for 24 VDC = 492310C2





IECEx certified



## 496565 ELECTRICAL PARTS "BOOSTER" "IS" 37 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

**Application:** Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T4 to T6 is required.

**Benefits:** Rotatable 360° fibreglass-reinforced plastic housing (class H).

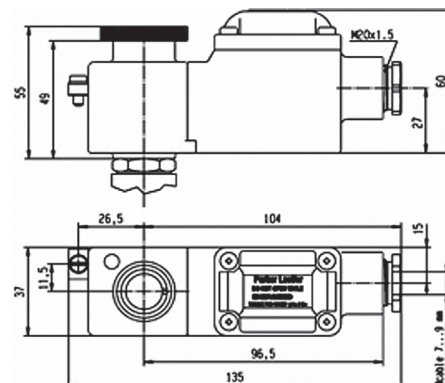
Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland. Small size for ease of mounting in confined space. Available only in 28 VDC (code: N7).



<b>Reference</b>	<b>496565</b>	
<b>Certificate</b>	<b>LCIE 08 ATEX 6071 X - IECEx LCI 08.0030 X</b>	
<b>Coil group</b>	<b>9.0</b>	
<b>Type of protection</b>	<b>Gas</b>	II 1 G - Ex ia IIC - T4 / T5 / T6
	<b>Dust</b>	II 1 D - Ex ta IIIC - T80 / T95 / T130°C
<b>Degree of protection</b>	<b>IP67</b> according to IEC/EN 60529 Standards	
<b>Ambiant temperature</b>	- 40°C to +80 / 75 / 65°C The application might also be limited by the temperature range of the valve.	
<b>Electrical connection</b>	Cable connection through a plastic cable gland M20 x 1.5 allowing use of cable diameter from 7 to 12 mm. Additional earth connection possible with external screw terminal.	
<b>Class of insulation</b>	H180°C	
<b>Minimum Courant of function</b>	20 mA	
<b>Minimum voltage of function at 60°C</b>	28 VDC (N7)	
<b>Safety parameters Maximum acceptable values: Ui (V) / Ii (mA) / Pi (W)</b>	28 V / 110 mA / 0.77 W 27 V / 120 mA / 0.81 W 26 V / 135 mA / 0.88 W 25 V / 150 mA / 0.94 W 24 V / 170 mA / 1.02 W	28 V / 280 mA / 1.96 W 27 V / 320 mA / 2.16 W 26 V / 350 mA / 2.27 W 25 V / 390 mA / 2.43 W 24 V / 430 mA / 2.58 W
<b>Line check</b>	4 mA or 5 VDC max	
<b>Apparent Impedance Typ.</b>	Attraction ~ 600 Ω - Holding ~ 570 Ω	
<b>Apparent Inductance</b>	0 mH	
<b>Apparent Capacitance</b>	0 μF	
<b>Response Time Typ.</b>	2 - 4 s	
<b>Weight</b>	500 g	

To Order a Coil choose Coil Ref + Voltage Code, example: 496565 for 28 VDC = 496565N7





# Quality

## Quality Assurance

Each valve carries its own identification number. It is sent out from the factory with a Quality Assurance Certificate ensuring the following:

### Strategic Parts Identification

Strategic parts, i.e. parts which are directly involved in the valving process are identified. Materials traceability of all identified parts is assured back to source. Identified stainless steel parts have either a EN10204.3.1B declaration or a supplier's attest.

### Final Test declaration

Confirms correct valve function at minimum and maximum rated pressures, with specified mains supply rating and checks that the maximal external & internal leakage rates values respect the valves specifications.



© courtesy of Equinor

### Certificate

Our organization is in compliance with ISO9001/14001 and OHSAS18001.



### ATEX and IECEx certified electrical parts

Parker has a large range of certified coils working in hazardous locations (gaz and dust environment), for surface applications (Ex II).

The different existing technical solutions (ATEX & IECEx protection modes "ia", "d", "e" & "mb") allow our customers to face to every specific request.