



PNEUMAX



ATEX
OVERVIEW

ATEX Overview

Components for explosive atmosphere

Pneumax is offering a range of components usable in potentially explosive atmosphere and classified in different protection categories according to Directive 2014/34/UE, also known as ATEX.

ATEX Directive

2014/34 /UE

Directive ATEX 2014/34/EU (previously ATEX 94/9/EC) provides for harmonised requirements and conformity assessment procedures for electrical and non-electrical equipment, intended for use in environments which are potentially explosive due to dust or gas hazards, and protective systems. Safety devices intended for use

outside explosive atmospheres, which are required for or contribute to the safe functioning of equipment or protective systems with respect to risks of explosion are also included.

ATEX Directive divides equipment into groups and categories as shown into table below.

ATEX directive divides equipment in groups and categories as shown in the following table:

GROUPS		CATEGORIES		CONDITION OF OPERATIONS
I	Underground Mines	M1	Very high level of protection	Equipment remains energised and functioning when explosive atmosphere present
		M2	High level of protection	Equipment de-energised when explosive atmosphere is recognised
II	Surface industries	1	Very high level of protection	Equipment remains energised and functioning in Zones 0,1,2 (G) and/or 20, 21, 22 (D)
		2	High level of protection	Equipment remains energised and functioning in Zones 1, 2 (G) and/or 21, 22 (D)
		3	Normal protection	Equipment remains energised and functioning in Zone 2 (G) and/or 22 (D)

The conformity assessment procedures depend on the categories (level of protection) of the intended use of the equipment.

Atmosphere Explosive

An explosive atmosphere is a mixture of flammable gases, vapours, mists or dusts with air, under specific atmospheric conditions in which, after ignition has occurred, combustion propagates to the flammable mixture.

GAS: IIA, IIB, IIC	<p>Gas and vapours are divided into 3 sub-groups IIA, IIB and IIC depending of the characteristics of the substance. The group IIC is the most dangerous and the group IIA is the less one. Based on the substance, it is possible to identify the group to which the equipment must belong. Each equipment is suitable and approved for a gas group: equipment of IIC group can be installed also in location that require equipment of the groups IIA and IIB and IIC.</p> <p>Example of substances:</p> <ul style="list-style-type: none"> - IIA: acetone, ethyl alcohol, ammonia, petrol, butane, hexane, ethane, natural gas, naphtha, propane, toluene, solvents, etc... - IIB: acetaldehyde, cyclopropane, ethyl ether, ethylene, etc... - IIC: acetylene, hydrogen, gases containing more than 25% hydrogen, carbon disulphide, etc...
DUST: IIIA, IIIB, IIIC	<p>Dusts are into 3 sub-groups IIIA, IIIB and IIIC:</p> <ul style="list-style-type: none"> - IIIA: fiber - IIIB: non conductive dust - IIIC: conductive dust

Directive 2014/34/EU (Manufacturer Directive) applies to equipment and protective systems (group, category, assessment procedures, marking) whereas ATEX Directive 99/92/CE (User Directive) provides for a classification of the places where explosive atmospheres may occur

(zoning) and define protection level of the equipment and protective systems (groups and categories) shall be used in each zone. Hazardous locations are classified, by the User, in zones based on frequency and duration of the occurrence of explosive atmosphere.

GAS	Zone 0	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is present continuously or for long periods or frequently.
	Zone 1	A place in which an explosive atmosphere consisting of a mixture with air or flammable substances in the form of gas, vapour or mist is likely to occur in normal operation occasionally.
	Zone 2	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.
DUST	Zone 20	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.
	Zone 21	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.
	Zone 22	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

ATEX product

The products shall be provide by the appropriate identification label, which includes, in addition to the CE marking, the specific marking of explosive protection (Epsilon-x, in the hexagon) followed by the group (I or II) and category; for group II, the letter G is added for equipment for Gas while equipment for dust is identified by the letter D (Dust).

Other information usually located in marking plate are:

- Gas/dust subgroup
- Type of protection
- Temperature class (Gas) and max surface temperature (Dust)
- Equipment protection level (EPL)

Correlation between zone , category and EPL

Zone	Category	EPL
0	1G	Ga
1	2G	Gb
2	3G	Gc
20	1D	Da
21	2D	Db
22	3D	Dc

ATEX Marking

Correlation between max surface temperature and temperature class of equipment

Equipment		Electrical products (according EN 60079-X)	Non - Electrical products (according EN 13463-X)	Non - Electrical products (according EN ISO 80079-36 & 80079-37) Mandatory from 10/2019
Surface temperature Ts	Class t.	II 2 G Ex ib T4 Gb X II 2 D Ex tb T135°C Db X	II 2 GD c T4 T135°C X	II 2 G Ex h T4 Gb X II 2 D Ex h T135°C Db X
Ts < 85°C	T6	xxxx N° of Ex Notified Body (only category 2 and 1) for quality assurance notification	II Group	II Group
85°C < Ts < 100°C	T5	II Group	2 Category	2 Category
100°C < Ts < 135°C	T4	2 Category	G, D Gas, Dust	G, D Gas, Dust
135°C < Ts < 200°C	T3	G, D Gas, Dust	c Constructional safety "c"	Ex h Protection for non - electrical equipment
200°C < Ts < 300°C	T2	Ex ib Intrinsically safe "ib"	T4 Temperature class	T4 Temperature class
300°C < Ts < 450°C	T1	Ex tb Dust tight enclosure "tb"	T135°C Maximum surface temperature	T135°C Maximum surface temperature
		T4 Temperature class	Gb, Db EPL	Gb, Db EPL
		T135°C Maximum surface temperature	X Special condition for safe use (see instruction)	X Special condition for safe use (see instruction)
		Gb, Db EPL		
		X Special condition for safe use (see instruction)		

Air distribution

Valves and solenoid valves

Valves and solenoid valves with spools

ATEX ON REQUEST


SERIES 104

 part no. **X104_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T105°C Dc X	-5°C ≤ Ta ≤ +50°C	Pneumatic, mechanic and manual	-	2/2, 3/2, 5/2, 5/3	Ø4

ATEX ON REQUEST


SERIES 105

 part no. **X105_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T90°C Db X	-5°C ≤ Ta ≤ +70°C	Pneumatic, mechanic and manual	-	3/2, 5/2	M5

 part no. **X105_2640_** - Handle with valve

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIC T90°C Dc X	-5°C ≤ Ta ≤ +70°C	Pneumatic, mechanic and manual	-	3/2, 5/2	M5

ATEX ON REQUEST


SERIES 200

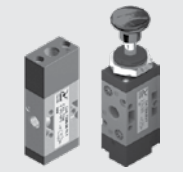
 part no. **X2_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	-5°C ≤ Ta ≤ +70°C	Pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4 G1/2 - G1

 part no. **X2_10_** - Valves with pedal

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIC T100°C Dc X	-5°C ≤ Ta ≤ +70°C	Pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4 G1/2 - G1

ATEX ON REQUEST


SERIES T200

 part no. **X2T8_ | X2T4_** - Pneumatic valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T96°C Db X	-5°C ≤ Ta ≤ +50°C	Solenoid	-	3/2, 5/2, 5/3	G1/8 - G1/4

ATEX ON REQUEST


SERIES 800

 part no. **X80_11_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	-5°C ≤ Ta ≤ +70°C	Pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	M5 - G1/8

 Part no. **X8_M2** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T70°C Db X	-5°C ≤ Ta ≤ +50°C	Solenoid	-	3/2, 5/2, 5/3	M5 - G1/8 G1/4

 part no. **X8_X_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid	-	3/2, 5/2, 5/3	M5 - G1/8 G1/4



ATEX ON REQUEST



SERIES 800 (continue)



part no. **X8_B_ | X8_C_** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid	-	3/2, 5/2, 5/3	M5 - G1/8

part no. **X805_ | X808_ | X818_** - Solenoid valves with electric pilot XN3_ 15mm 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T125°C Dc X IP65	-5°C ≤ Ta ≤ +50°C	Solenoid	-	3/2, 5/2, 5/3	M5 - G1/8

part no. **X824_ | X828_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T6 Gc X II 3D Ex h IIIC T70°C Dc X	-5°C ≤ Ta ≤ +50°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/4

ATEX ON REQUEST



SERIES 400



part no. **X4_M2_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T6 Gb X II 2D Ex h IIIC T70°C Db X	-5°C ≤ Ta ≤ +50°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4 G1/2

part no. **X4_X_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4 G1/2

part no. **X4_B_ | X4_C_ | X4_M_** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, pneumatic, mechanic and manual	-	2/2, 3/2, 5/2, 5/3	G1/8 - G1/4 G1/2

ATEX ON REQUEST



SERIES T400



part no. **X4T8_ | X4T4_** - Valves and solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T96°C Db X	-5°C ≤ Ta ≤ +50°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4

part no. **X4T8_ | X4T4_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4

part no. **X4T8_ | X4T4_** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2, 5/3	G1/8 - G1/4

ATEX ON REQUEST



SERIES 2400 LINE-FLAT-VDMA



part no. **2400_** - Solenoid valves

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc IP65 II 3D Ex tc IIIC T=85°C Dc IP65	-5°C ≤ Ta ≤ +50°C	All versions	18 mm	5/2, 5/3, 2x3/2	G1/8 - G1/4 Ø6 - Ø8

ATEX ON REQUEST



SERIES 2600 LINE-FLAT-VDMA



part no. **2600_** - Solenoid valves

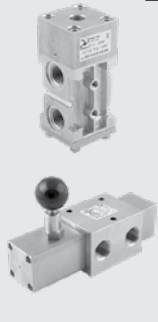
Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc IP65 II 3D Ex tc IIIC T=85°C Dc IP65	-5°C ≤ Ta ≤ +50°C	All versions	26 mm	5/2, 5/3	G3/8 - G1/4 Ø10

Valves and solenoid valves with spool

ATEX READY



PROCESS AUTOMATION TECHNOLOGY STAINLESS STEEL VALVES


 part no. **SS11_ | SS12_ | SS14_ | SS34_** - H - High temperature

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T180°C Db X	$-10^{\circ}\text{C} \leq T_a \leq +150^{\circ}\text{C}$	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2	1/4" NPT 1/2" NPT

 part no. **SS11_ | SS12_ | SS14_ | SS34_** - L - Low temperature

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	$-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$	Solenoid, pneumatic, mechanic and manual	-	3/2, 5/2	1/4" NPT 1/2" NPT

ATEX READY



PROCESS AUTOMATION TECHNOLOGY ALUMINIUM VALVES SERIES


 part no. **SA11_ | SA12_ | SA14_ | SA38_**

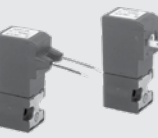
Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	$-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$	Pneumatic, mechanic and manual	-	3/2, 5/2	1/4" NPT 1/2" NPT 1" NPT

Direct operated solenoid valves

ATEX ON REQUEST



SERIES 300


 part no. **XN3_** - Direct operated solenoid valves

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T4 Gc X II 3D Ex tc IIIC T125°C Dc X IP65	$-10^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$	N.C.-N.O.	15 mm	3/2	-

ATEX ON REQUEST



M SERIES (MECHANICS)


 part no. **XM2_ , XM2/_ | X3_5.M1, X3_5.M1/_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T70°C Db X	$-10^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$	N.C.-N.O.	-	3/2	Ø4 - M5 G1/8

 part no. **XM2_ , XM2/_ | X3_5.M1, X3_5.M1/_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	$-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	N.C.-N.O.	-	3/2	Ø4 - M5 G1/8

 part no. **XM2_ , XM2/_ | X3_5.M1, X3_5.M1/_** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	$-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	N.C.-N.O.	-	3/2	Ø4 - M5 G1/8

ATEX ON REQUEST



CNOMO SERIES


 part no. **XM3P_ , XM3R_ | XM4P_ , XM4R_ | XM5P_ , XM5R_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T6 Gb X II 2D Ex h IIIC T70°C Db X	$-10^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$	N.C.-N.O.	-	3/2	-

 part no. **XM3P_ , XM3R_ | XM4P_ , XM4R_ | XM5P_ , XM5R_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	$-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	N.C.-N.O.	-	3/2	-



ATEX ON REQUEST



CNOMO SERIES (continue)



part no. **XM3P_**, **XM3R_** | **XM4P_**, **XM4R_** | **XM5P_**, **XM5R_** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-10°C ≤ Ta ≤ +40°C	N.C.-N.O.	-	3/2	-

Valves and solenoid valves poppet system

ATEX ON REQUEST



SERIES 700



part no. **X70532_** | **X77_3211_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T95°C Db X	-5°C ≤ Ta ≤ +70°C	N.C.-N.O.	-	3/2	G3/8 - G1/2 G3/4 - G1 G1 1/2

part no. **X7_M2** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T6 Gb X II 2D Ex h IIIC T70°C Db X	-5°C ≤ Ta ≤ +50°C	N.C.-N.O.	-	3/2	G3/8 - G1/2 G3/4 - G1 G1 1/2

part no. **X7_X_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-5°C ≤ Ta ≤ +40°C	N.C.-N.O.	-	3/2	G3/8 - G1/2 G3/4 - G1 G1 1/2

part no. **X7_B_** | **X7_C_** - Solenoid valves with coil XME 2GD XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	N.C.-N.O.	-	3/2	G3/8 - G1/2 G3/4 - G1 G1 1/2

ATEX READY



PROCESS AUTOMATION TECHNOLOGY ALUMINIUM VALVES SERIES



part no. **SA771** | **SA772** | **SA773** | **SAN776**

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T100°C Db X	-30°C ≤ Ta ≤ +70°C	N.C.-N.O.	-	3/2	1/2" NPT 3/4" NPT 1" NPT 1 1/2" NPT

Valves and solenoid valves NAMUR

ATEX ON REQUEST



SERIES 514/N



part no. **X514/N** - Valves and solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T96°C Db X	-10°C ≤ Ta ≤ +50°C	Solenoid - Spring Solenoid - Differential Solenoid - Solenoid	-	3/2 5/2	G1/4

part no. **X514/N** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-10°C ≤ Ta ≤ +40°C	Solenoid - Spring Solenoid - Differential Solenoid - Solenoid	-	3/2 5/2	G1/4

part no. **X514/N** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-10°C ≤ Ta ≤ +40°C	Solenoid - Spring Solenoid - Differential Solenoid - Solenoid	-	3/2 5/2	G1/4

ATEX ON REQUEST


SERIES T514

 part no. **X5T4** - Valves and solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIC T96°C Db X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Pneum. or Sol. - Differential Pneum. or Sol. - Spring Pneum. or Sol. - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X5T4** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	$-5^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X5T4** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	$-5^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

ATEX ON REQUEST


SERIES 514 - 516

 part no. **X514** | **X516** - Valves and solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T96°C Db X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Pneum. or Sol. - Differential Pneum. or Sol. - Spring Pneum. or Sol. - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X514** | **X516** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X514** | **X516** - Solenoid valves with coil XMHC 2GD Ex ia, E xt with connector

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB/IIC T4 Gb X II 2D Ex h IIIC T130°C Db X IP65	$-30^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X514** | **X516** - Solenoid valves with coil XMH4/H6 2GD Ex ia

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB/IIC T4 Gb X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C} / +85^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

 part no. **X514** | **X516** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	4/2 5/2, 9/2	G1/4

ATEX ON REQUEST


SERIES 515 - 517

 part no. **X515** | **X517** - Valves and solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T96°C Db X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Pneum. or Sol. - Differential Pneum. or Sol. - Spring Pneum. or Sol. - Pneumatic	-	5/2	G1/4

 part no. **X515** | **X517** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	5/2	G1/4

 part no. **X515** | **X517** - Solenoid valves with coil XMHC 2GD Ex ia, E xt with connector

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB/IIC T4 Gb X II 2D Ex h IIIC T130°C Db X IP65	$-30^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	5/2	G1/4

 part no. **X515** | **X517** - Solenoid valves with coil XMH4/H6 2GD Ex ia

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIB/IIC T4 Gb X	$-30^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} / 85^{\circ}\text{C}$	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	5/2	G1/4



ATEX ON REQUEST



SERIES 515 - 517 (continue)



part no. **X515** | **X517** - Solenoid valves with coil XMB or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-20°C ≤ Ta ≤ +40°C	Solenoid - Differential Solenoid - Spring Solenoid - Pneumatic	-	5/2	G1/4

Valves and solenoid valves ISO5599/1

ATEX ON REQUEST



SERIES 1000



part no. **X10_16_** | **X10_18_** | **X10_19_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	-5°C ≤ Ta ≤ +70°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

part no. **X1001_**, **X1051_** | **X1002_**, **X1052_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T70°C Db X	-5°C ≤ Ta ≤ +50°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

part no. **X1001_**, **X1051_** | **X1002_**, **X1052_** - Solenoid valves with coil XME 2GD

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

part no. **X1001_**, **X1051_** | **X1002_**, **X1052_** - Solenoid valves with coil XMB 3GD or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

part no. **X1011_** | **X1012_** **X1013_** - Solenoid valves without coil

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T6 Gc X II 3D Ex h IIIC T70°C Dc X	-5°C ≤ Ta ≤ +50°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

part no. **X1011_** | **X1012_** | **X1013_** - Solenoid valves with coil XMB 3GD or XMC 3GD

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIB T4 Gc X II 3D Ex h IIIC T120°C Dc X IP65	-5°C ≤ Ta ≤ +40°C	Solenoid, Pneumatic.	ISO 1 ISO 2 ISO 3	5/2, 5/3	-

Accessories

Complementary valves

ATEX ON REQUEST



SERIES 900



part no. **X900_** - Valves

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T120°C Db X	-5°C ≤ Ta ≤ +70°C	All versions	-	-	-

Process automation technology stainless steel accessories

ATEX READY



STEEL LINE SERIES



part no. **SS11_** | **SS12_** | **SS14_** | **SS34_** - H - High temperature

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T180°C Db X	-10°C ≤ Ta ≤ +150°C	All versions	-	Flow control Quick exhaust Exhaust flow control	1/4" NPT - 1/2" NPT 3/4" NPT - 1" NPT

part no. **SS11_** | **SS12_** | **SS14_** | **SS34_** - L - Low temperature

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	-50°C ≤ Ta ≤ +70°C	All versions	-	Flow control Quick exhaust Exhaust flow control	1/4" NPT - 1/2" NPT 3/4" NPT - 1" NPT

Aluminum process automation technology accessories

ATEX READY



ALUMINUM PROCESS AUTOMATION TECHNOLOGY SERIES


 part no. **A6_** - H - Accessories

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	-30°C ≤ Ta ≤ +70°C	All versions	-	-	1/4" NPT - 1/2" NPT 3/4" NPT - 1" NPT

Valves and solenoid valves manifold

Valves and solenoid valves manifold VDMA

ATEX ON REQUEST



SERIES 2400 VDMA


 part no. **2400_** - Solenoid valves manifold

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc IP65 II 3D Ex tc IIIC T=85°C Dc IP65	-5°C ≤ Ta ≤ +50°C	All versions	18 mm	5/2, 5/3, 2x3/2	G1/8 - G1/4

ATEX ON REQUEST



SERIES 2600 VDMA


 part no. **2600_** - Solenoid valves manifold

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc IP65 II 3D Ex tc IIIC T=85°C Dc IP65	-5°C ≤ Ta ≤ +50°C	All versions	26 mm	5/2, 5/3	G3/8 - G1/4

Solenoid valves manifold ISO15407-2

ATEX READY



SERIES 2700


 part no. **2700_** - Solenoid valves manifold

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	-10°C ≤ Ta ≤ +50°C	All versions	26 mm	5/2, 5/3, 2x3/2	G1/4

Solenoid valves manifold

ATEX READY



SERIES 2200 OPTYMA-S


 part no. **2200_** - Solenoid valves manifold

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	-10°C ≤ Ta ≤ +50°C	All versions	12,5 mm	5/2, 5/3, 2x3/2	Ø4 - Ø6 - Ø8

ATEX READY



SERIES 2300 ENOVA


 part no. **2300_** - Solenoid valves manifold

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex nA IIC T5 Gc IP65 II 3D Ex tc IIIC T=100°C Dc IP65	-5°C ≤ Ta ≤ +50°C	All versions	12,5 mm	5/2, 5/3, 2x3/2	Ø4 - Ø6 - Ø8



Air Treatment

Modular FRL

ATEX ON REQUEST



SERIES 1700

part no. X17001... - Filter

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X17008... - Coalescing filter

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X17002... - X17022... - Pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X170B2... - X170M2... - Manifold pressure regulators

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X17003... - Lubricator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X17004... - Filter regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X17110M2 - X17120 - Progressive start-up valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/4

part no. X17030... - Shut-off valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/8 - G1/4

part no. X171S2... - High sensitive air pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	Metal body	1	G1/4

part no. X17202... - X17222 - Pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	2	G1/4 G3/8

part no. X17210M2 - X17220 - Progressive start-up valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	2	G3/8

part no. X17230... - Shut-off valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	2	G3/8

part no. X17212... - High sensitive air pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	2	G3/8



ATEX ON REQUEST


SERIES 1700 (continue)
part no. X17302... - X17322 - Pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	3	G3/8 - G1/2

part no. X17310M2 - X17320 - Progressive start-up valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	3	G1/2

part no. X17330... - Shut-off valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	3	G1/2

part no. X173S2... - X173P2... - High sensitive air pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	3	G1/2

part no. X17401... - Filter

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17408... - Coalescing filter

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17402... - Pressure regulator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17403... - Lubricator

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17410M2 - X17420 - Progressive start-up valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17430... - Shut-off valve

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIB T5 Gb X II 2D Ex h IIIB T90°C Db X	-5°C ≤ Ta ≤ +50°C	All versions	4	G1

part no. X17101... - Filter

Marking	Temperature	Version	Size	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	-5°C ≤ Ta ≤ +50°C	Technopolymer body	1	G1/8 - G1/4

part no. X17108... - Coalescing filter

Marking	Temperature	Version	Size	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	-5°C ≤ Ta ≤ +50°C	Technopolymer body	1	G1/8 - G1/4

part no. X17109... - X17129... - Panel mounting pressure regulator

Marking	Temperature	Version	Size	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	-5°C ≤ Ta ≤ +50°C	Technopolymer body	1	G1/8 - G1/4

part no. X17102... - X17122... - Pressure regulator

Marking	Temperature	Version	Size	Connection
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	-5°C ≤ Ta ≤ +50°C	Technopolymer body	1	G1/8 - G1/4





ATEX ON REQUEST



SERIES 1700 (continue)

part no. X17103... - Lubricator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Technopolymer body	1	G1/8 - G1/4	
part no. X17104... - Filter regulator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Technopolymer body	1	G1/8 - G1/4	
part no. X17130... - Shut-off valve					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Technopolymer body	1	G1/4	
part no. X17201... - Filter					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	2	G1/4 G3/8	
part no. X17208... - Coalescing filter					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	2	G1/4 - G3/8	
part no. X17203... - Lubricator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	2	G1/4 - G3/8	
part no. X17204... - Filter regulator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	2	G1/4 - G3/8	
part no. X17301... - Filter					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	3	G3/8 - G1/2	
part no. X17308... - Coalescing filter					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	3	G3/8 - G1/2	
part no. X17303... - Lubricator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	3	G3/8 - G1/2	
part no. X17304... - Filter regulator					
Marking	Temperature	Version	Size	Connection	
II 3G Ex h IIB T5 Gc X II 3D Ex h IIIB T90°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	All versions	3	G3/8 - G1/2	

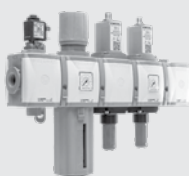


ATEX READY

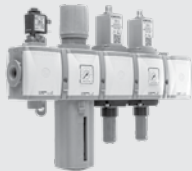


AIRPLUS SERIES

part no. T171... - N171... T172... - N172... - P172... T173... - N173... - P173... Versions with automatic drain					
Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T5 Gc X II 3D Ex h IIIC T98°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Polymer Bowl	1-2-3	All functions except electric shut-off valve	G1/8 - G1/4 G3/8 - G1/2
part no. P174...					
Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T115°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$	Polymer Bowl	4	All functions except electric shut-off valve	G1
part no. P172...T - L172...T P173...T - L173...T					
Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T135°C Db X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$ $-40^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$	Metal body and bowl	1-2-3	All functions except electric shut-off valve	G1/8 - G1/4 G3/8 - G1/2



ATEX READY


AIRPLUS SERIES (continue)

part no. P174...T - L174...T

Marking	Temperature	Version	Size	Function	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T150°C Db X	-30°C ≤ Ta ≤ +80°C -40°C ≤ Ta ≤ +80°C	Metal body and bowl	4	All functions except electric shut-off valve	G1

part no. T171... - N171... | T172... - N172... | T173... - N173... - VE - 15mm coil

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T115°C Dc X	-5°C ≤ Ta ≤ +50°C	Polymer body	1-2-3	VE Electric shut-off valve	G1/8 - G1/4 G3/8 - G1/2

part no. T171... - N171... | T172... - N172... | T173... - N173... - VE - 22mm and 30mm coil

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T5 Gc X II 3D Ex h IIIC T98°C Dc X	-5°C ≤ Ta ≤ +50°C	Polymer body	1-2-3	VE Electric shut-off valve	G1/8 - G1/4 G3/8 - G1/2

part no. P172...VE... | P173...VE... - VE

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T4 Gc X II 3D Ex h IIIC T135°C Dc X	-5°C ≤ Ta ≤ +50°C	Metal body	1-2-3	VE Electric shut-off valve	G3/8 - G1/2

part no. P174...VE... - VE

Marking	Temperature	Version	Size	Function	Connection
II 3G Ex h IIC T3 Gc X II 3D Ex h IIIC T150°C Dc X	-5°C ≤ Ta ≤ +50°C	Metal body	4	VE Electric shut-off valve	G1

ATEX READY


SERIES 1700 STEEL LINE
part no. SS174... - SF174...

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T130°C Db X	-30°C ≤ Ta ≤ +80°C	Standard	4	3/4" NPT - 1" NPT G1

part no. SS174... - SF174... - L

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T130°C Db X	-50°C ≤ Ta ≤ +80°C	Low temperature	4	3/4" NPT - 1" NPT G1

part no. SS174... - SF174... - H

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T200°C Db X	-5°C ≤ Ta ≤ +150°C	High temperature	4	3/4" NPT - 1" NPT G1

part no. SS174... - SF174... - S - SR

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T120°C Db X	-5°C ≤ Ta ≤ +70°C	Automatic drain and reduced automatic drain versions	4	3/4" NPT - 1" NPT G1

part no. SS174... - SF174... - SM174 - Z

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T130°C Db X	-60°C ≤ Ta ≤ +80°C	Silicone seals version	4	3/4" NPT - 1" NPT G1

part no. SS174... - SF174... - EF

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T150°C Db X	-40°C ≤ Ta ≤ +100°C	EPDM FDA seals version	4	3/4" NPT - 1" NPT G1

part no. SS172... - SF172... - SM172 | SS173... - SF173... - SM173 - Standard

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T110°C Db X	-30°C ≤ Ta ≤ +80°C	Standard	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT - 1/2" NPT G1/2

part no. SS172... - SF172... - SM172 | SS173... - SF173... - SM173 - L

Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T110°C Db X	-50°C ≤ Ta ≤ +80°C	Low temperature	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT - 1/2" NPT G1/2





ATEX READY



SERIES 1700 STEEL LINE (continue)



part no. SS172... - SF172... - SM172 SS173... - SF173... - SM173 - H				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T180°C Db X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +150^{\circ}\text{C}$	High temperature	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT -1/2" NPT G1/2
part no. SS172... - SF172... - SM172 SS173... - SF173... - SM173 - S - SR				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T100°C Db X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$	Automatic drain and reduced automatic drain versions	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT -1/2" NPT G1/2
part no. SS172... - SF172... - SM172 SS173... - SF173... - SM173 - Z				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T110°C Db X	$-60^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$	Silicone seals version	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT -1/2" NPT G1/2
part no. SS172... - SF172... - SM172 SS173... - SF173... - SM173 - EF				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T130°C Db X	$-40^{\circ}\text{C} \leq \text{Ta} \leq +100^{\circ}\text{C}$	EPDM FDA seals version	2	1/4" NPT - 3/8" NPT G1/4
			3	1/4" NPT -1/2" NPT G1/2

Volume Booster

ATEX READY



FLOWPLUS SERIES



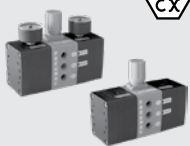
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T90°C Db X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$	Standard L Z	3	1/4" NPT 1/2" NPT
	$-50^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$			
	$-60^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$			
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T165°C Db X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +150^{\circ}\text{C}$	H	3	1/4" NPT 1/2" NPT
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T115°C Db X	$-40^{\circ}\text{C} \leq \text{Ta} \leq +100^{\circ}\text{C}$	EF	3	1/4" NPT 1/2" NPT
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T90°C Db X	$-30^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$	Standard L Z	4	3/4" NPT 1" NPT
	$-50^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$			
	$-60^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$			
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T5 Gb X II 2D Ex h IIIC T90°C Db X	$-5^{\circ}\text{C} \leq \text{Ta} \leq +150^{\circ}\text{C}$	H	4	3/4" NPT 1" NPT
part no. SA17_VB SS17_VB				
Marking	Temperature	Version	Size	Connection
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T115°C Db X	$-40^{\circ}\text{C} \leq \text{Ta} \leq +100^{\circ}\text{C}$	EF	4	3/4" NPT 1" NPT

Pressure boosters

ATEX READY



SERIES P+



part no. MDTP40 - Technopolymer Pressure Booster				
Marking	Temperature	Version	Size	Connection
II 3G Ex h IIB T6 Gc X II 3D Ex h IIIB T85°C Dc X	$-5^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C}$	adjustable/ not adjustable	40	G1/4

Pneumatic actuation

Cylinders according to international standards

Microcylinders ISO6432

ATEX ON REQUEST



SERIES 1200 ROLLED END COVER VERSION (MIR)



part no. X1280

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T140°C Db X	-5°C ≤ Ta ≤ 30°C (T5/T100°C) -5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 70°C (T3/T140°C)	NBR version	Ø8 ... Ø32	15 ... 500

part no. X1280...T

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T165°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 90°C (T4/T135°C) -5°C ≤ Ta ≤ 120°C (T3/T165°C)	HNBR Version NON Magnetic	Ø8 ... Ø32	15 ... 500

part no. X1280...M.T

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T125°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T125°C)	HNBR Version Magnetic	Ø8 ... Ø32	15 ... 500

part no. X1280...V

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T195°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 90°C (T4/T135°C) -5°C ≤ Ta ≤ 150°C (T3/T195°C)	FPM Version NON Magnetic	Ø8 ... Ø32	15 ... 500

part no. X1280...M.V

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T125°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T125°C)	FPM Version Magnetic	Ø8 ... Ø32	15 ... 500

ATEX ON REQUEST



SERIES 1200 STEEL LINE



part no. X12X

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T4 Gb X II 2D Ex h IIIC T100°C ... T135°C Db X	-5°C ≤ Ta ≤ 35°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T135°C)	NBR Version	Ø16 ... Ø63	15 ... 500

part no. X12X...PN

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T4 Gb X II 2D Ex h IIIC T100°C ... T135°C Db X	-5°C ≤ Ta ≤ 35°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T135°C)	PUR Ø16 ... Ø32 adjustable pneumatic cushioning version, NON Magnetic	Ø16 ... Ø63	15 ... 500

part no. X12X...PM

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T145°C Db X	-5°C ≤ Ta ≤ 35°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T135°C) -5°C ≤ Ta ≤ 80°C (T3/T145°C)	PUR Ø16 ... Ø32: non adjustable cushioning - Magnetic. Ø40 ... Ø63 non adjustable cushioning; adjustable pneumatic cushioning - Magnetic	Ø16 ... Ø63	15 ... 500

part no. X12X...V.N

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T2 Gb X II 2D Ex h IIIC T100°C ... T215°C Db X	-5°C ≤ Ta ≤ 40°C (T5/T100°C) -5°C ≤ Ta ≤ 75°C (T4/T135°C) -5°C ≤ Ta ≤ 140°C (T3/T200°C) -5°C ≤ Ta ≤ 150°C (T2/T215°C)	FPM Version NON Magnetic	Ø16 ... Ø63	15 ... 500

part no. X12X...V.M

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T140°C Db X	-5°C ≤ Ta ≤ 40°C (T5/T100°C) -5°C ≤ Ta ≤ 75°C (T4/T135°C) -5°C ≤ Ta ≤ 80°C (T3/T140°C)	FPM Version Magnetic	Ø16 ... Ø63	15 ... 500



Cylinders CNOMO-CETOP-ISO

ATEX ON REQUEST



SERIES 1303 - 1304 - 1305 - 1306 - 1307 - 1308 - 1315



part no. **X1303 | X1304 | X1305 | X1306 | X1307 | X1308 | X1315**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T140°C Db X	-5°C ≤ Ta ≤ 30°C (T5/T100°C) -5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 70°C (T3/T140°C)	NBR Version	Ø32 ... Ø320	25 ... 1000

part no. **X1303 | X1304 | X1305...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T2 Gb X II 2D Ex h IIIC T100°C ... T225°C Db X	-5°C ≤ Ta ≤ 25°C (T5/T100°C) -5°C ≤ Ta ≤ 60°C (T4/T135°C) -5°C ≤ Ta ≤ 125°C (T3/T200°C) -5°C ≤ Ta ≤ 150°C (T2/T225°C)	FPM Version NON Magnetic	Ø32 ... Ø200	25 ... 1000

part no. **X1306 | X1307 | X1308...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T150°C Db X	-5°C ≤ Ta ≤ 30°C (T5/T100°C) -5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 80°C (T3/T150°C)	FPM Version Magnetic	Ø32 ... Ø200	25 ... 1000

Cylinders ISO 15552

ATEX ON REQUEST



SERIES 1319 - 1320 - 1321



part no. **X1319 | X1320 | X1321**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T115°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T115°C)	NBR Version	Ø32 ... Ø200	25 ... 1000

part no. **X1319 | X1320...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T125°C Db X	-5°C ≤ Ta ≤ 80°C (T4/T125°C)	FPM Version Magnetic	Ø32 ... Ø200	25 ... 1000

part no. **X1321...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T195°C Db X	-5°C ≤ Ta ≤ 150°C (T3/T195°C)	FPM Version NON Magnetic	Ø32 ... Ø200	25 ... 1000

ATEX ON REQUEST



SERIES 1348 - 1349 - 1350



part no. **X1348 | X1349 | X1350**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 ... T3 Gb X II 2D Ex h IIIC T135°C ... T155°C Db X	-5°C ≤ Ta ≤ 50°C (T4/T135°C) -5°C ≤ Ta ≤ 70°C (T3/T155°C)	All versions	Ø32 ... Ø63	25 ... 320

ATEX ON REQUEST



ECOPLUS SERIES



part no. **X1396 | X1397 | X1398**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T120°C Db X	-5°C ≤ Ta ≤ 35°C (T6/T85°C) -5°C ≤ Ta ≤ 50°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T120°C)	NBR Version	Ø32 ... Ø100	25 ... 1000

part no. **X1396 | X1397 | X1398...P**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T130°C Db X	-30°C ≤ Ta ≤ 80°C (T4/T130°C)	PUR Version	Ø32 ... Ø100	25 ... 1000

ATEX ON REQUEST


ECOLIGHT SERIES

 part no. **X1390 | X1391 | X1392**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T4 Gb X II 2D Ex h IIIC T100°C ... T135°C Db X	-5°C ≤ Ta ≤ 35°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T135°C)	NBR Version	Ø32 ... Ø200	25 ... 1000

 part no. **X1390 | X1391 | X1392...P**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T140°C Db X	-30°C ≤ Ta ≤ 80°C (T3/T140°C)	PUR Version	Ø32 ... Ø200	25 ... 1000

 part no. **X1390 | X1391...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 Gb X II 2D Ex h IIIC T120°C Db X	-5°C ≤ Ta ≤ 80°C (T4/120°C)	FPM Version Magnetic	Ø32 ... Ø200	25 ... 1000

 part no. **X1392...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T190°C Db X	-5°C ≤ Ta ≤ 150°C (T3/190°C)	FPM Version NON Magnetic	Ø32 ... Ø200	25 ... 1000

 part no. **X1390 | X1391 | X1392...R**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T165°C Db X	-10°C ≤ Ta ≤ 80°C (T3/165°C)	Version with metallic rod scraper	Ø32 ... Ø100	25 ... 1000

 part no. **X1390 | X1391 | X1392...Q**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T150°C Db X	-20°C ≤ Ta ≤ 80°C (T3/150°C)	Version with plastic rod scraper	Ø32 ... Ø100	25 ... 1000

 part no. **X1390 | X1391 | X1392...L**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T3 Gb X II 2D Ex h IIIC T155°C Db X	-50°C ≤ Ta ≤ 80°C (T3/155°C)	Low temperature version	Ø32 ... Ø200	25 ... 1000



ATEX ON REQUEST


SERIES INOX STEEL LINE

 part no. **X1393 | X1394**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T150°C Db X	-30°C ≤ Ta ≤ 30°C (T5/T100°C) -30°C ≤ Ta ≤ 65°C (T4/T135°C) -30°C ≤ Ta ≤ 80°C (T3/T150°C)	PUR Version	Ø32 ... Ø100	25 ... 1000

 part no. **X1393...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T3 Gb X II 2D Ex h IIIC T100°C ... T150°C Db X	-5°C ≤ Ta ≤ 30°C (T5/T100°C) -5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 80°C (T3/T150°C)	FPM Version Magnetic	Ø32 ... Ø100	25 ... 1000

 part no. **X1394...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T2 Gb X II 2D Ex h IIIC T100°C ... T220°C Db X	-5°C ≤ Ta ≤ 30°C (T5/T100°C) -5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 130°C (T3/T200°C) -5°C ≤ Ta ≤ 150°C (T2/T220°C)	FPM Version NON Magnetic	Ø32 ... Ø100	25 ... 1000

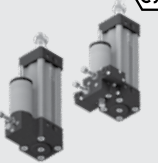

Hydro-pneumatic cylinders ISO1552

ATEX ON REQUEST


SERIES 1450-1463

 part no. **X1450 | X1463**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T115°C Db X	-5°C ≤ Ta ≤ 40°C (T6/T85°C) -5°C ≤ Ta ≤ 55°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T115°C)	All versions	Ø50-Ø63	50 ... 450





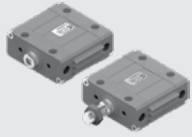
Non standard cylinders

Flat profiled tube

ATEX ON REQUEST



ECOFLAT SERIES



part no. **X1370** | **X1371** | **X1372** | **X1373**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T110°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T110°C)	All versions	Ø25 ... Ø63	25 ... 320

Compact cylinders

ATEX ON REQUEST



SERIES 1500



part no. **X15...**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T125°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 45°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T125°C)	NBR Version	Ø20 ... Ø100	5 ... 50

part no. **X15...T**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T175°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 45°C (T5/T100°C) -5°C ≤ Ta ≤ 120°C (T3/T175°C)	HNBR Version NON Magnetic	Ø20 ... Ø100	5 ... 50

part no. **X15...M.T**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T135°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 45°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T135°C)	HNBR Version Magnetic	Ø20 ... Ø100	5 ... 50

part no. **X15...V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T200°C Db X	-5°C ≤ Ta ≤ 35°C (T6/T85°C) -5°C ≤ Ta ≤ 50°C (T5/T100°C) -5°C ≤ Ta ≤ 85°C (T4/T135°C) -5°C ≤ Ta ≤ 150°C (T3/T200°C)	FPM Version NON Magnetic	Ø20 ... Ø100	5 ... 50

part no. **X15...M.V**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T130°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 50°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T130°C)	FPM Version Magnetic	Ø20 ... Ø100	5 ... 50

ATEX ON REQUEST



EUROPE SERIES



part no. **X156_** | **X158_...**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T135°C Db X	-30°C ≤ Ta ≤ 30°C (T6/T85°C) -30°C ≤ Ta ≤ 45°C (T5/T100°C) -30°C ≤ Ta ≤ 80°C (T4/T135°C)	PUR Version	Ø12 ... Ø100	5 ... 500

part no. **X157_** | **X159_..._(4-5-6)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T175°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 45°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T135°C) -5°C ≤ Ta ≤ 120°C (T3/T175°C)	HNBR Version NON Magnetic	Ø12 ... Ø100	5 ... 500

part no. **X157_** | **X159_..._(1-2-3)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T135°C Db X	-5°C ≤ Ta ≤ 30°C (T6/T85°C) -5°C ≤ Ta ≤ 45°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T135°C)	HNBR Version Magnetic	Ø12 ... Ø100	5 ... 500

Compact cylinders ISO21287

ATEX ON REQUEST



ECOMPACT SERIES

 part no. **X154_(0-1) | X155_(0-1)..._(1...6)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T110°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T110°C)	NBR Version	Ø20 ... Ø100	5 ... 500

 part no. **X154_(4-5) | X155_(4-5)..._(1...6)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T120°C Db X	-30°C ≤ Ta ≤ 45°C (T6/T85°C) -30°C ≤ Ta ≤ 60°C (T5/T100°C) -30°C ≤ Ta ≤ 80°C (T4/T120°C)	PUR Version	Ø20 ... Ø100	5 ... 500

 part no. **X154_(6-7) | X155_(6-7)..._(4-5-6)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T190°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 95°C (T4/T135°C) -5°C ≤ Ta ≤ 150°C (T3/T190°C)	FPM Version NON Magnetic	Ø20 ... Ø100	5 ... 500

 part no. **X154_(6-7) | X155_(6-7)..._(1-2-3)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T120°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T120°C)	FPM Version Magnetic	Ø20 ... Ø100	5 ... 500



ATEX ON REQUEST



ECOMPACT-S SERIES

 part no. **X154_(0-1) | X155_(0-1)..._(1-4)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T110°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T110°C)	NBR Version	Ø32 ... Ø63	5 ... 500

 part no. **X154_(4-5) | X155_(4-5)..._(1-4)**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T120°C Db X	-30°C ≤ Ta ≤ 45°C (T6/T85°C) -30°C ≤ Ta ≤ 60°C (T5/T100°C) -30°C ≤ Ta ≤ 80°C (T4/T120°C)	PUR Version	Ø32 ... Ø63	5 ... 500

 part no. **X154_(6-7) | X155_(6-7)..._4**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T190°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 95°C (T4/T135°C) -5°C ≤ Ta ≤ 150°C (T3/T190°C)	FPM Version NON Magnetic	Ø32 ... Ø63	5 ... 500

 part no. **X154_(6-7) | X155_(6-7)..._1**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T3 Gb X II 2D Ex h IIIC T85°C ... T190°C Db X	-5°C ≤ Ta ≤ 45°C (T6/T85°C) -5°C ≤ Ta ≤ 60°C (T5/T100°C) -5°C ≤ Ta ≤ 80°C (T4/T120°C)	FPM Version Magnetic	Ø32 ... Ø63	5 ... 500



Guided compact cylinders

ATEX ON REQUEST



SERIES 6100

 part no. **X6100**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 ... T3 Gb X II 2D Ex h IIIC T135°C ... T140°C Db X	-5°C ≤ Ta ≤ 65°C (T4/T135°C) -5°C ≤ Ta ≤ 70°C (T3/T140°C)	NBR Version	Ø12 ... Ø63	10 ... 200





ATEX ON REQUEST



SERIES 6101



part no. **X6101**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T5 Gb X II 2D Ex h IIIC T85°C ... T95°C Db X	-5°C ≤ Ta ≤ 60°C (T6/T85°C) -5°C ≤ Ta ≤ 70°C (T5/T95°C)	NBR Version	Ø80	25 ... 200

Slide units

ATEX ON REQUEST



SERIES 6200



part no. **X6200**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T4 ... T3 Gb X II 2D Ex h IIIC T135°C ... T145°C Db X	-5°C ≤ Ta ≤ 60°C (T4/T135°C) -5°C ≤ Ta ≤ 70°C (T3/T145°C)	NBR Version	Ø10 ... Ø32	10 ... 100

ATEX ON REQUEST



SERIES 6210



part no. **X6210**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T6 ... T4 Gb X II 2D Ex h IIIC T85°C ... T105°C Db X	-5°C ≤ Ta ≤ 50°C (T6/T85°C) -5°C ≤ Ta ≤ 65°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T105°C)	NBR Version	Ø10 ... Ø25	25 ... 200

Rodless cylinders

Standard

ATEX ON REQUEST



SERIES 1605



part no. **X1605**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 2G Ex h IIC T5 ... T4 Gb X II 2D Ex h IIIC T100°C ... T130°C Db X	-5°C ≤ Ta ≤ 40°C (T5/T100°C) -5°C ≤ Ta ≤ 70°C (T4/T130°C)	NBR Version	Ø16 ... Ø63	6m

Magnetic sensors

ATEX ON REQUEST



SERIES SA



part no. **X1500 | X1600**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 3G Ex nA IIC T5 Gc II 3D Ex tc IIIC T100°C Dc	-5°C ≤ Ta ≤ 40°C	Sensors Hall effect	12 mm	M8 cable 2 or 3 connectors

part no. **X1500 | X1600**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 3G Ex nC IIC T5 Gc II 3D Ex tc IIIC T100°C Dc	-5°C ≤ Ta ≤ 40°C	Sensors REED	12 mm	M8 cable 2 or 3 connectors

Miniaturised magnetic sensors

ATEX ON REQUEST



SERIES SR



part no. **X1580**

Marking	Temperature	Version	Bore (mm)	Stroke (mm)
II 3G Ex ic IIB T4 Gc II 3D Ex ic IIIC T135°C	-10°C ≤ Ta ≤ +70°C	Sensors Hall effect	5 mm	Cable 2 or 3 connectors

Automotive

Clamping

ATEX READY



SERIES C1

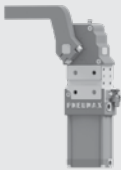

 part no. **C1_25/80**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø25 - Ø80 mm	International mount

ATEX READY



SERIES C2

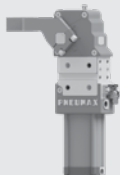

 part no. **C2_50/80**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø50 - Ø80 mm	NAAMS Standard

ATEX READY



SERIES HE1

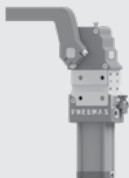

 part no. **HE1P0/1/2/3/4**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø40 - Ø80 mm	International mount

ATEX READY



SERIES HE2

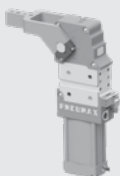

 part no. **HE2P1/2/3**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø50 - Ø80 mm	NAAMS Standard

ATEX READY



SERIES CX


 part no. **C_X40/50/63**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø40 - Ø63 mm	International mount / NAAMS Standard

ATEX READY



SERIES CS/HES


 part no. **CS/HES**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	$0^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ (T6/T85°C)	Ø40 - Ø80 mm	International mount / NAAMS Standard

ATEX READY



SERIES CB



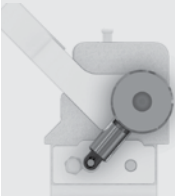
part no. **CB40/63**

Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø40; Ø63 mm	International mount

ATEX READY



SERIES AR



part no. **AR_/AR_N/AR09R**

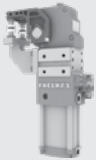
Marking	Temperature	Size	Mounting Pattern
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	12 mm; 16 mm; 19 mm; 22 mm; 30 mm	International mount / NAAMS Standard

Handling

ATEX READY



SERIES J



part no. **J_40**

Marking	Temperature	Size	Arm
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø40 mm	Aluminum / Steel

Pivoting

ATEX READY



SERIES P



part no. **P63**

Marking	Temperature	Size	Opening Angle
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø63 mm	0°-135°

part no. **P80/100/125**

Marking	Temperature	Size	Opening Angle
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø80, Ø100 mm, Ø125 mm	45°; 60°; 90°; 120°; 135°

Locating

ATEX READY



SERIES R


 part no. **R_32**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø32mm	20mm; 40mm

 part no. **R_50/63**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø50; Ø63mm	15mm; 25mm; 40mm; 50mm; 60mm

ATEX READY



SERIES RT


 part no. **RT_40**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø40 mm	40 mm

ATEX READY



SERIES RC


 part no. **RC_D50/63**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø50; Ø63mm	25mm; 50mm

ATEX READY



SERIES HP


 part no. **HP50**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø50mm	15mm; 25mm; 40mm; 50mm; 60mm

ATEX READY



SERIES F


 part no. **F_40/41/63**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø40 mm, Ø41 mm, Ø63mm	15mm; 25mm; 40mm; 50mm; 60mm

ATEX READY



SERIES FT


 part no. **FT_50**

Marking	Temperature	Size	Stroke
II 2G Ex h IIC T6 Gb X II 2D Ex h IIIC T85°C Db X	0°C ≤ Ta ≤ +50°C (T6/T85°C)	Ø50 mm	40mm



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