

WE ARE

A&T
FLUID SOLUTIONS



AIRWORK
PNEUMATIC EQUIPMENT



TECNOFLUID
ENGINEERING

PNEUMATIC
COMPONENTS

COMPONENTI
PNEUMATICI



WE ARE

A&T
FLUID SOLUTIONS



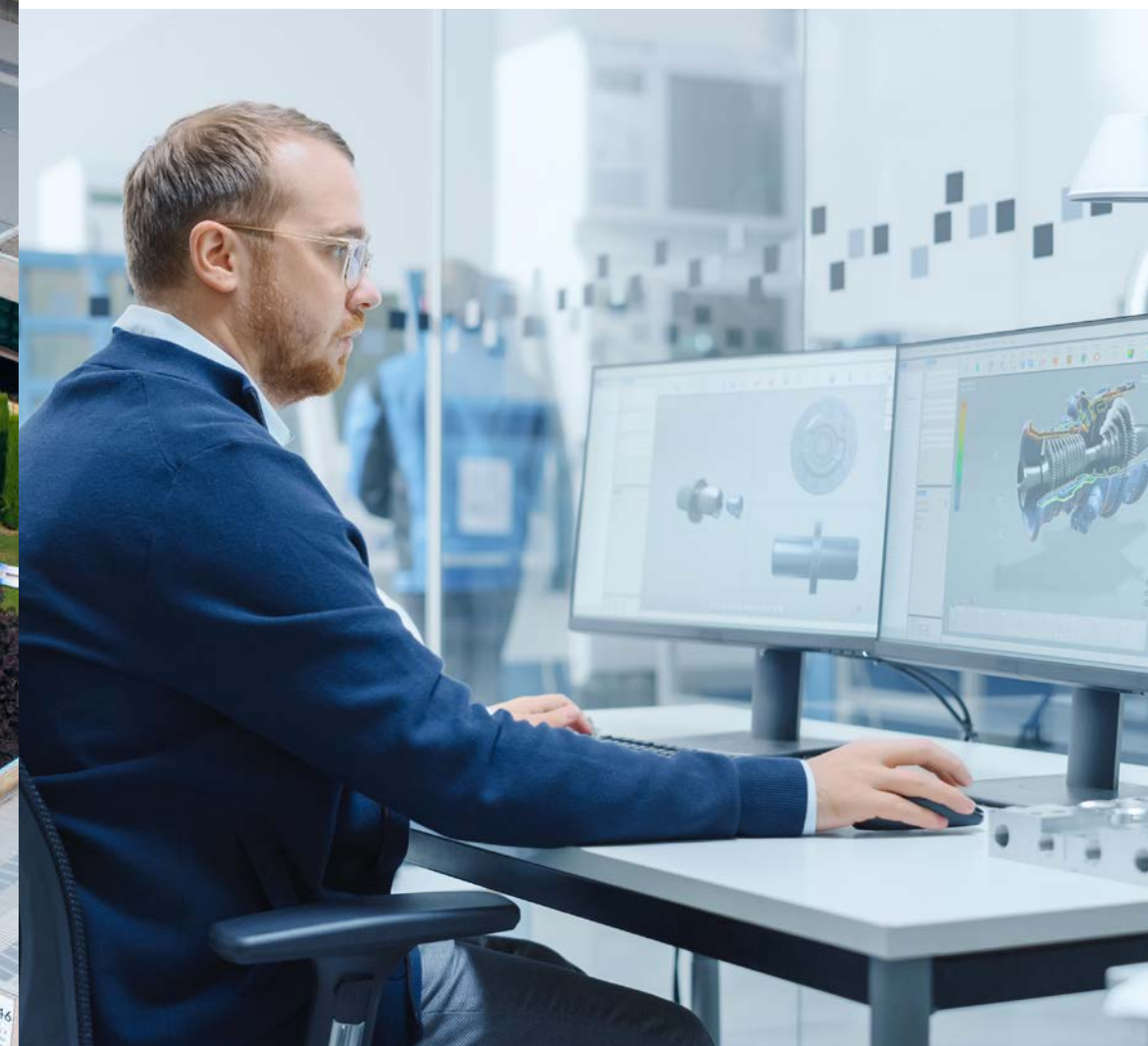
THE COMPANY

L'AZIENDA



EN - A&T Fluid Solutions is the company that brings together the Airwork (pneumatics division) and Tecnofluid (hydraulics division) brands. A&T Fluid Solutions is part of a well-established Group, UNI EN ISO 9001 and 14001 certified, which has been operating for more than 35 years in various industrial sectors and boasts a modern and tested design system, a fleet of machines of considerable potential and production flexibility, dedicated lines for the assembly and testing of products thanks to high standards of quality control and detection. The experience and skill of the A&T Fluid Solutions staff is the added value to the efficient organisation and high quality. All these elements make A&T Fluid Solutions aware that we can achieve new and ambitious goals through continuous innovation of our products, with the aim of satisfying all customer demands.

IT - A&T Fluid Solutions è la società che raggruppa i brand Airwork (divisione pneumatica) e Tecnofluid (divisione oleodinamica). A&T Fluid Solutions è parte di un Gruppo consolidato, certificato UNI EN ISO 9001 e 14001, che opera da più di 35 anni in diversi settori industriali e vanta un sistema moderno e collaudato di progettazione, un parco macchine di notevole potenzialità e flessibilità produttiva, linee dedicate per l'assemblaggio e collaudo dei prodotti grazie a elevati standard di controllo e rilevazione qualità. L'esperienza e capacità dello staff di A&T Fluid Solutions è il valore aggiunto all'organizzazione efficiente e all'elevata qualità. Tutti questi elementi rendono A&T Fluid Solutions consapevole di poter raggiungere nuovi e ambiziosi traguardi grazie alla continua innovazione dei nostri prodotti, con l'obiettivo di soddisfare tutte le richieste della clientela.



OUR STRENGTHS

design

Expertise: this is the word that better identifies A&T Fluid Solutions. Our technical department relies on the most advanced technologies (CAD 3D and programs for analyzing by finished elements for the verification of the structural calculations) in order to satisfy any request in the shortest time. Not just engineering on customer's drawing, but real partnership, consulting and cooperation with the customer.

realizations

Technology: A&T Fluid Solutions boasts a machine equipment with top technology content, with CNC turning centers vertical, horizontal and multi pallet; CNC milling machines with single and twin spindle assisted by robot for the automatic load of the pieces to be worked, and a fully equipped quality control division with 3D CNC measuring machines. All of this to allow you to transform your best ideas into successful products, thus rendering the passage as fluent as possible.

service

Reliability: Thanks to the fully computerised management of the company's activities and internal procedures, we are able to satisfy any request, even the most urgent, and to provide reliable information at all times. A stock of semi-finished products, constantly monitored and replenished, allows us to guarantee fast deliveries, even in the case of customised products.

I NOSTRI PUNTI DI FORZA

progettazione

Competenza: Ecco la parola nella quale A&T Fluid Solutions più si identifica. Il nostro ufficio tecnico si avvale delle tecnologie più moderne (CAD 3D e programmi di analisi agli elementi finiti per la verifica dei calcoli strutturali) per soddisfare in tempi ristretti qualsiasi tipo di richiesta. Non semplice progettazione su disegno ma partnership, consulenza e collaborazione con il cliente.

realizzazione

Tecnologia: A&T Fluid Solutions vanta un parco macchine ad alto contenuto tecnologico, con centri di lavoro a controllo numerico verticali, orizzontali e multi pallet; torni a controllo numerico singoli e bi-mandrino assistiti da robot per il caricamento automatico dei pezzi da lavorare, e un attrezzato reparto controllo qualità con macchine di misura tridimensionale CNC. Tutto questo per trasformare le idee migliori in prodotti di successo, rendendo il passaggio il più fluido possibile

servizio

Affidabilità: Grazie alla gestione completamente informatizzata delle attività aziendali e delle procedure interne, possiamo soddisfare anche le richieste più urgenti e dare sempre informazioni affidabili. Un magazzino di semilavorati costantemente monitorato e rifornito ci permette di garantire consegne veloci, anche in caso di prodotti personalizzati.

PRODUCTS I PRODOTTI

ACTUATORS AND CYLINDERS

ATTUATORI E CILINDRI



VALVES AND ELECTROVALVES

VALVOLE ED ELETTROVALVOLE



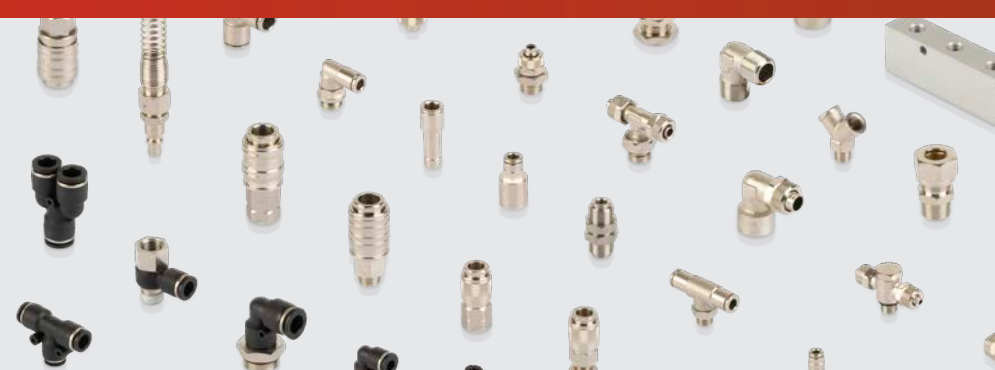
AIR TREATMENT

TRATTAMENTO ARIA



FITTINGS AND TUBES

RACCORDI E TUBI



CUSTOM MADE SOLUTIONS

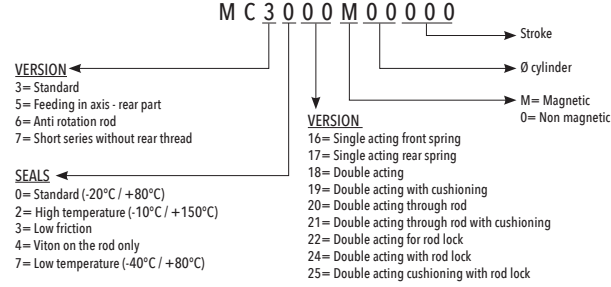
REALIZZAZIONI SPECIALI



Cylinder ISO 6432
MC series



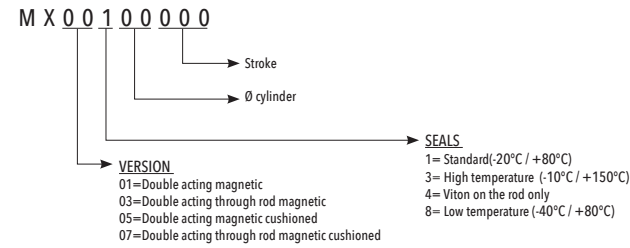
mm	008	010	012	016	020	025
10						
25						
50						
80						
100						
125						
160						
200						
250						
320						
400						



Cylinders ISO 6432
stainless steel
MX series



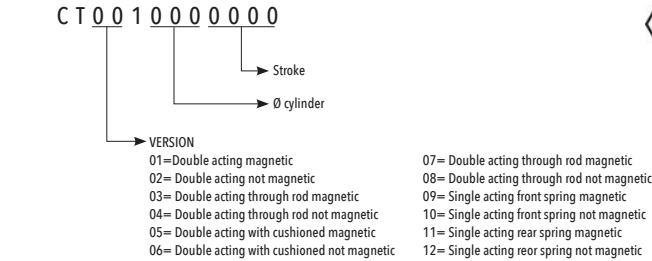
mm	016	020	025
10			
25			
50			
80			
100			
125			
160			
200			
250			
320			
400			



Round cylinders
CT series



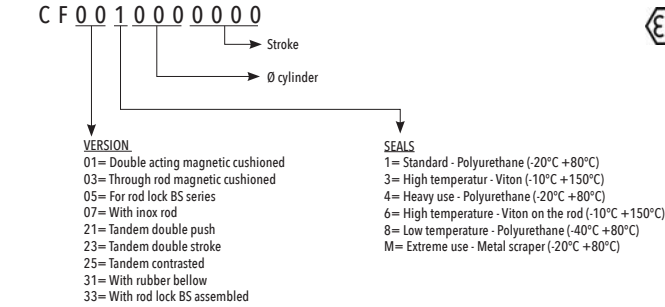
mm	032	040	050	063
25				
50				
80				
100				
125				
160				
200				
250				
320				
400				
500				



Cylinder ISO 15552
CF series



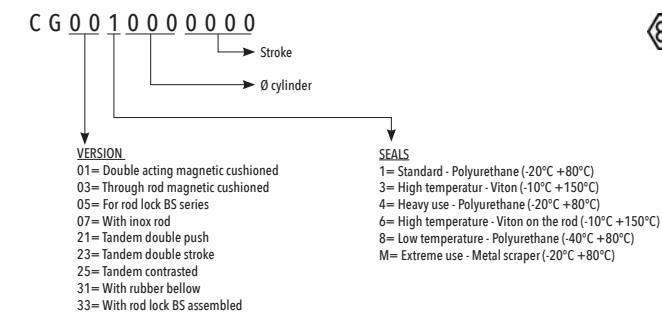
mm	032	040	050	063	080	0100
25						
50						
80						
100						
125						
160						
200						
250						
320						
350						
400						
500						
1000						



Cylinder ISO 15552
CG series



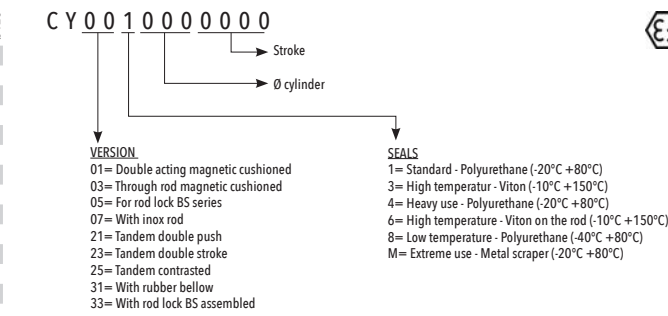
mm	032	040	050	063	080	0100
25						
50						
80						
100						
125						
160						
200						
250						
320						
350						
400						
500						
1000						



Cylinder ISO 15552
CY series



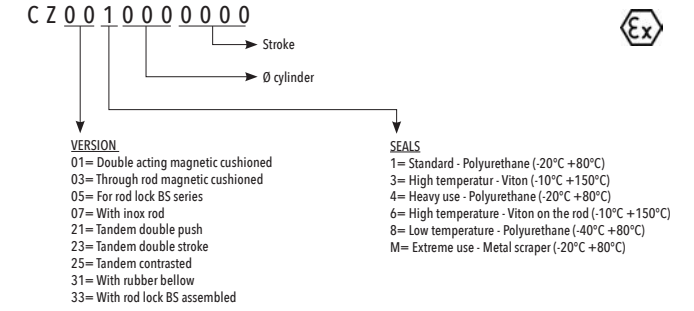
mm	032	040	050	063	080	0100	0125
25							
50							
80							
100							
125							
160							
200							
250							
320							
350							
400							
500							
1000							



Cylinder ISO 15552
CZ series



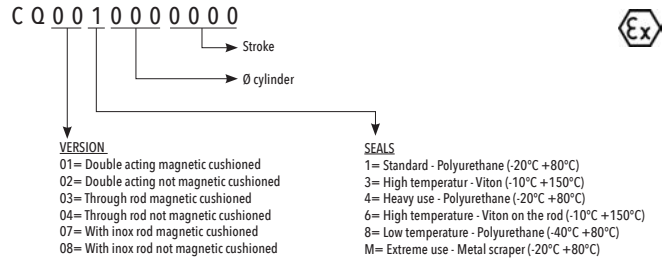
mm	032	040	050	063	080	0100	0125
25							
50							
80							
100							
125							
160							
200							
250							
320							
350							
400							
500							
1000							



Cylinder ISO 15552
CQ series



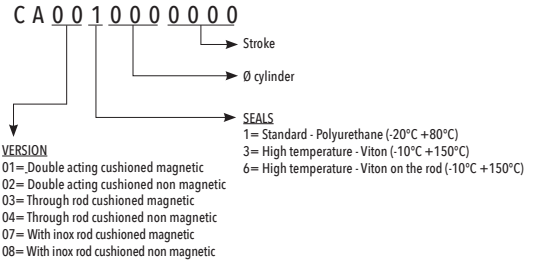
mm	0160	0200	0250
25			
50			
80			
100			
125			
160			
200			
250			
320			
350			
400			
500			
1000			



Double rods cylinder
CA series



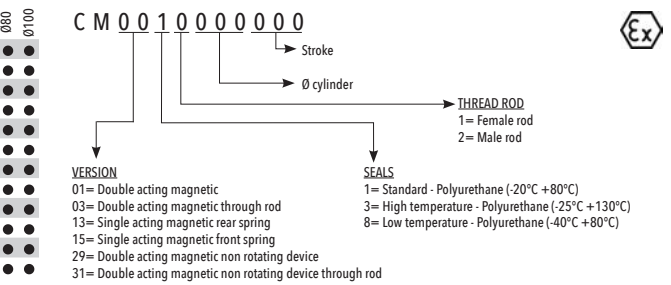
mm	032	040	050	063	080	0100
25						
50						
80						
100						
125						
160						
200						
250						
320						
350						
400						
500						



Compact cylinder ISO
21287
CM series



mm	012	016	020	025	032	040	050	063	080	0100
05										
10										
15										
20										
25										
30										
40										
50										
60										
70										
80										
100										



Cylinders ISO 15552
stainless steel
CX series



mm	032	040	050	063	080	0100	0125
25							
50							
80							
100							
125							
160							
200							
250							
320							
400							
500							

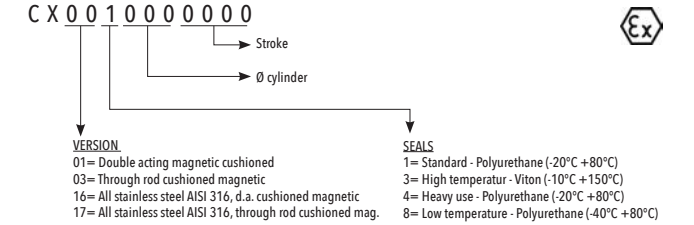
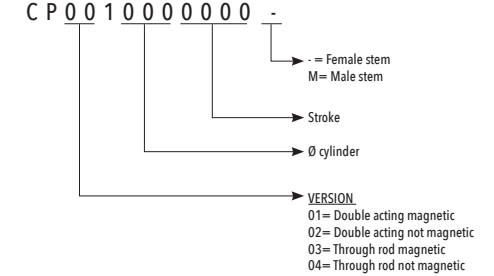


Plate cylinder
CP series



mm	0125	0160	0200
5			
10			
15			
25			
30			
40			
50			
70			
80			
100			
125			
160			
200			



Cartridge cyl.
CH series



mm	006	010	016
05	•	•	•
10	•	•	•
15	•	•	•

CH 1620000

- Stroke
- Ø cylinder
- 2= NBR seals
- 16= Single acting threaded piston rod
- 17= Single acting smooth piston rod

Guided compact cylinders
CC series



mm	010	012	016	020	025	032	040	050	063
05	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•
75	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•
150	•	•	•	•	•	•	•	•	•
175	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•

CC 3046000000

- Stroke
- Ø cylinder
- 6= With slide bearings
- 7= With ball bushings
- 4= Standard
- 3= For high temperature
- 6= With metal scrapers
- 8= With reinforced scrapers
- 0= Standard
- 1= Double plate
- 3= For low speed and high loads
- 4= With adjustable stroke
- 3= Standard
- 6= With rods, plate and screws in stainless steel



Guide cylinders with cushion
CC series



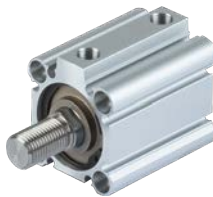
mm	016	020	025	032	040	050	063
25	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•
75	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•
150	•	•	•	•	•	•	•
175	•	•	•	•	•	•	•

CC 4046000000

- Stroke
- Ø cylinder
- 6= With slide bearings
- 7= With ball bushings
- 0= Standard
- 1= Double plate



Short stroke cylinders
CD series



mm	016	020	025	032	040	050	063	080	0100
05	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•
35	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•
45	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•
75	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•

CD 0010000000

- Stroke
- Ø cylinder
- 1= Female rod
- 2= Male rod
- VERSION
- 01= Double acting magnetic
- 02= Double acting no magnetic
- 03= Through rod magnetic
- 04= Through rod no magnetic
- 15= Single acting front spring magnetic
- 16= Single acting front spring no magnetic



Rodless cylinders
SS series



mm	025	032	040	050	063
01	•	•	•	•	•
6000	•	•	•	•	•

SS 0010000000

- Stroke
- Ø cylinder
- AIR CONNECTIONS
- 01= Standard
- 02= With connections on one side
- VERSION
- 01= Standard
- 03= Short
- 05= Standard guided
- 07= Short guided
- 10= Standard with guide with ball bushings
- 13= Short with guide ball bushings

Rod locks
BS series



mm	020	025	032	040	050	063	080	0100	0125
1.5"	•	•	•	•	•	•	•	•	•
2"	•	•	•	•	•	•	•	•	•
2.5"	•	•	•	•	•	•	•	•	•
3.25"	•	•	•	•	•	•	•	•	•
4"	•	•	•	•	•	•	•	•	•
5"	•	•	•	•	•	•	•	•	•

BS 3001000

- Size
- 01= Standard
- 03= Double guided for mounting without cylinder
- 0= ISO
- 1= NFPA
- 3= 020 - 025 - 032 - 040 - 050
- 2= 063 - 080 - 0100 - 0125

Stopper cylinders
ST series



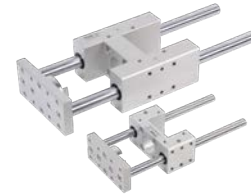
mm	032	050
20	•	•
30	•	•

ST 0101032020

- Stroke
- Ø cylinder
- VERSION
- 01= Smooth rod
- 03= Rod with roller
- 01= Single acting rear spring magnetic
- 02= Double acting magnetic



Guide units
UG series



mm	016	020	025	032	040	050	063	080	0100
50	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•
160	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•
250	•	•	•	•	•	•	•	•	•
320	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•

UG 2004000000

- Stroke
- Ø cylinder
- 4= H type with slide bearings
- 5= H type with ball bushings
- 8= U type with slide bearings
- 0= Long coupling
- 1= Short coupling

Rotary cylinders
RY series



mm	032	040	050	063	080	0100	0125
090°	•	•	•	•	•	•	•
180°	•	•	•	•	•	•	•
270°	•	•	•	•	•	•	•
360°	•	•	•	•	•	•	•

RY 0010000000

- Angle of rotation
- Ø cylinder
- VERSION
- 01= Male pinion with adjustment magnetic
- 03= Female pinion with adjustment magnetic
- 05= Male pinion without adjustment magnetic
- 07= Female pinion without adjustment magnetic

Rotary actuators
AT series



mm	015	018	020	025	032
090°	•	•	•	•	•
180°	•	•	•	•	•
270°	•	•	•	•	•
360°	•	•	•	•	•

AT 00200

- Ø cylinder
- VERSION
- 03= With adjustment bolt
- 05= With hydraulic shock absorbers

Hydraulic speed regulators
RI series



mm	040
50	•
100	•
150	•
200	•
250	•
300	•
350	•
400	•
450	•
500	•

RI 300111000

- Stroke
- 1= In line oil tank
- 2= Only regulator
- 4= With SKIP valve
- 5= With STOP valve
- 6= SKIP+STOP
- 1= Outlet regulation
- 2= Inlet regulation
- 3= Double acting regulation

Angular grippers
PA series



mm	010	016	020	025
•	•	•	•	•

PA 300

- Ø gripper
- VERSION
- 3= Double acting
- 5= Single acting open fingers

Angular grippers 180°
PG series



mm	010	016	020	025
•	•	•	•	•

PG 300

- Ø gripper
- 3= Double acting

Parallel grippers with long stroke
PH series



mm	010	016	020	025	032
20	•	•	•	•	•
30	•	•	•	•	•
40	•	•	•	•	•
50	•	•	•	•	•
60	•	•	•	•	•
70	•	•	•	•	•
80	•	•	•	•	•
100	•	•	•	•	•
120	•	•	•	•	•
160	•	•	•	•	•

PH 30000

- Stroke
- Ø gripper
- 3= Double acting

Guided parallel grippers
PS series



mm	010	016	020	025
•	•	•	•	•

PS 300

- Ø gripper
- 3= Double acting
- 5= Single acting open fingers
- 6= Single acting closed fingers

Parallel grippers with 3 fingers
PX series

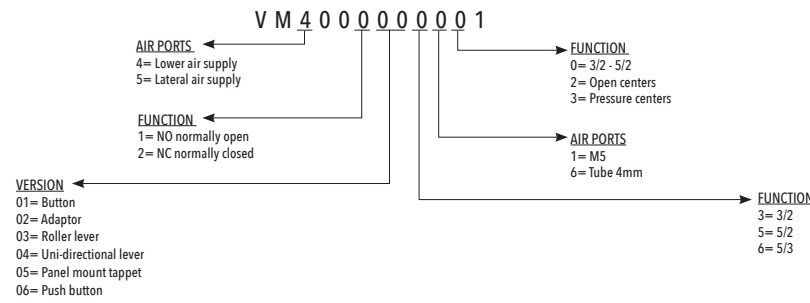


mm	016	020	025	032	040	050	063
•	•	•	•	•	•	•	•

PX 300

- Ø gripper
- 3= Double acting

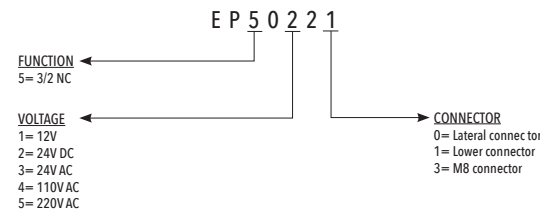
Microvalves
VM series



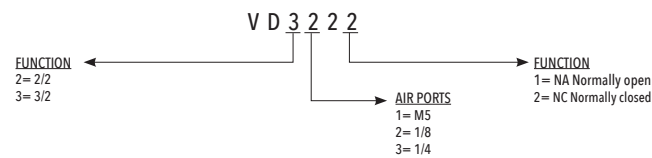
15 mm solenoid valves
EP series



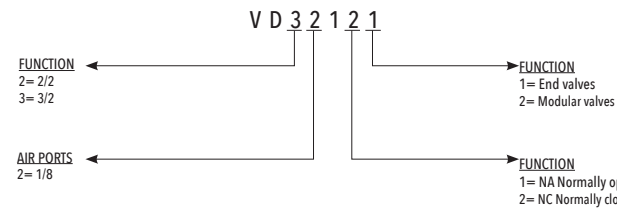
10 mm solenoid valves
EP series



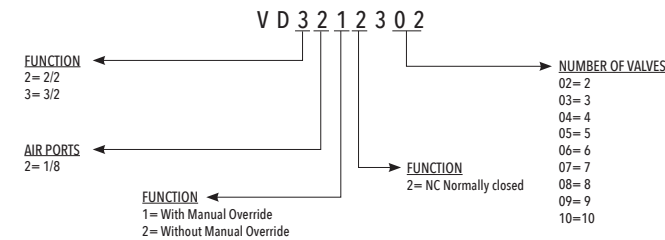
Directly operated valves
VD series



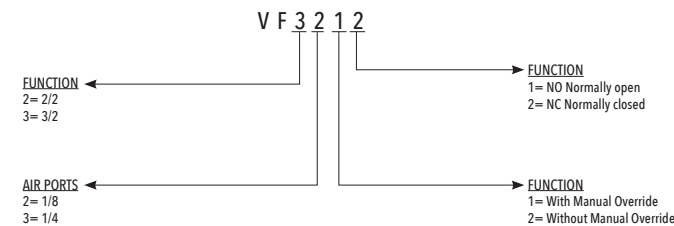
Modular directly operated valves
VD series



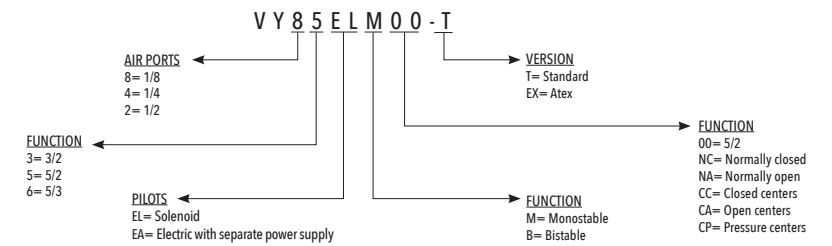
Direct solenoid valves on manifold
VD series



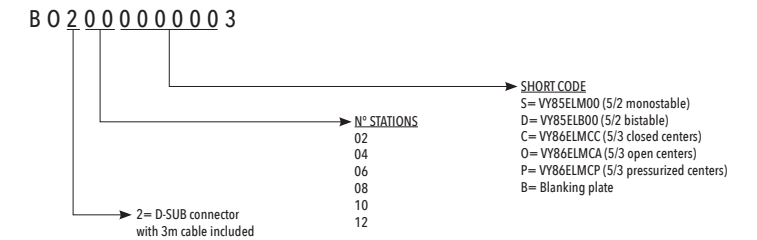
Directly operated valves
VF series



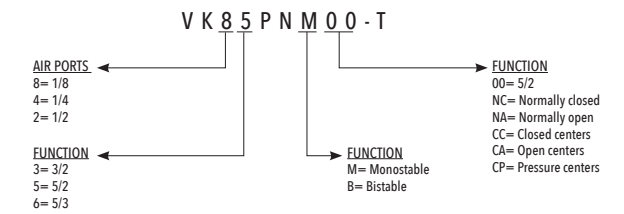
Solenoid valves
VY series



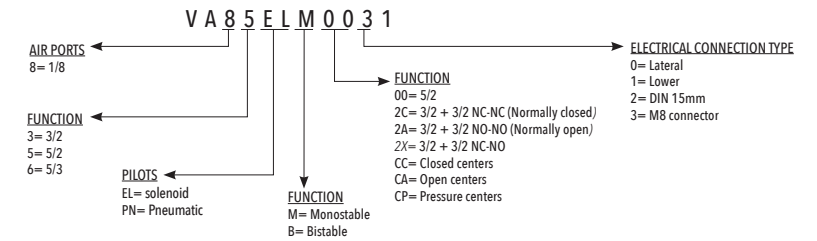
Multi connector system For
VY series



Pneumatic valves
VK series



Solenoid valves
VA series



Island with multi-pol connection VH2 series



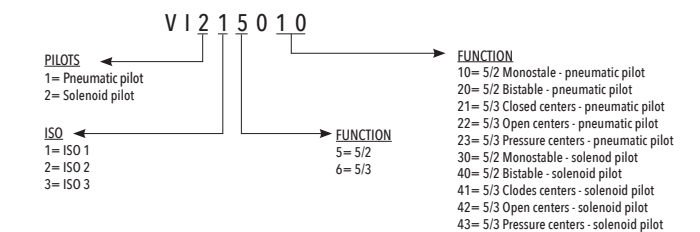
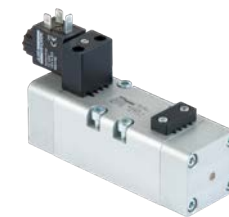
For the definition of the order code, contact our sales department.

Fieldbus valve islands
VJ series

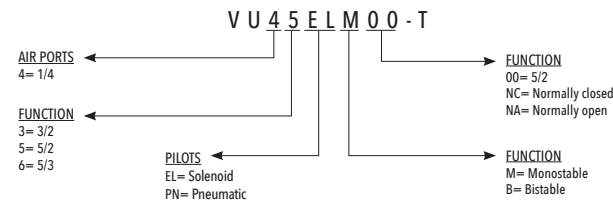
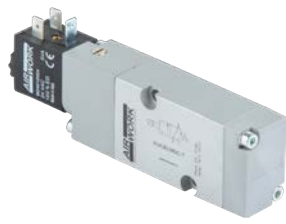


For the definition of the order code, contact our sales department.

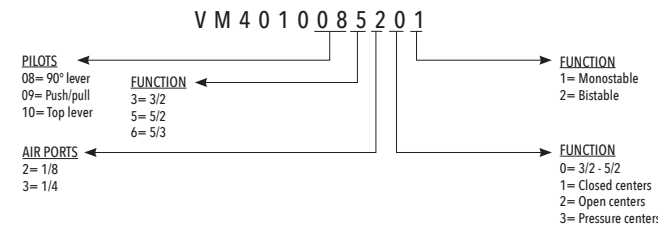
ISO valves 5599/1
VI series



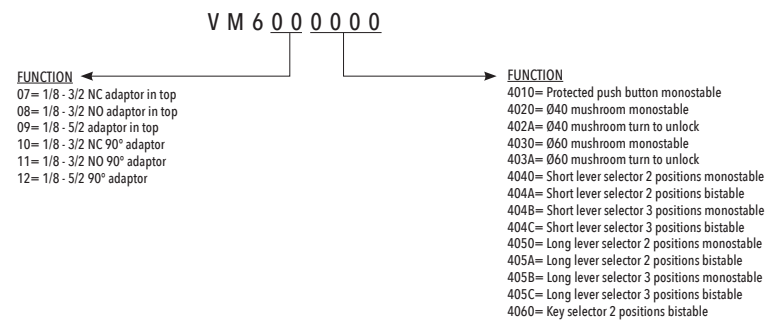
Namur valves
VU series



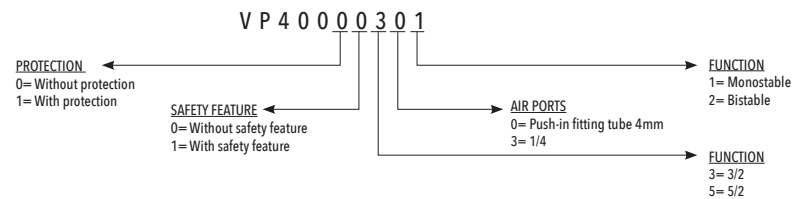
Manual valves
VM series



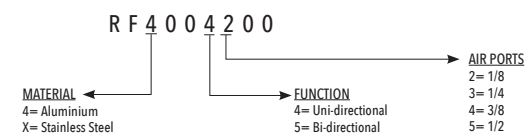
Manual valves
VM series



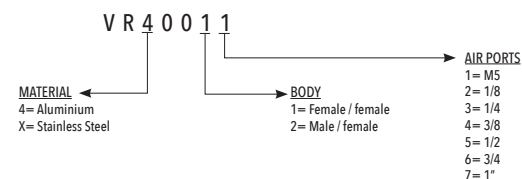
Pedal valves
VP series



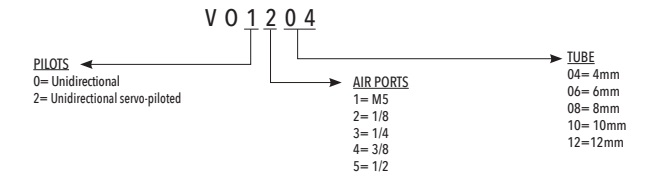
Flow regulators
RF series



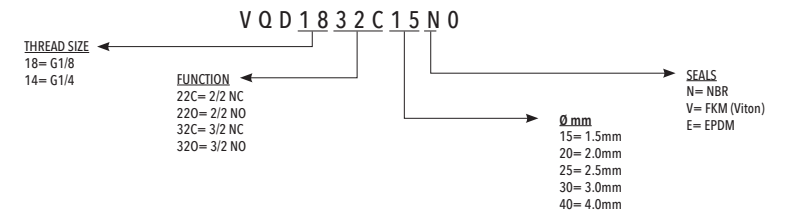
Non return
valve



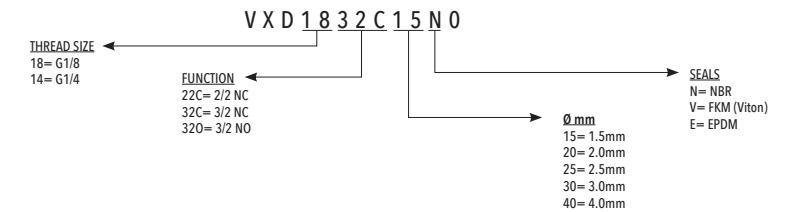
Stop valves
VO series



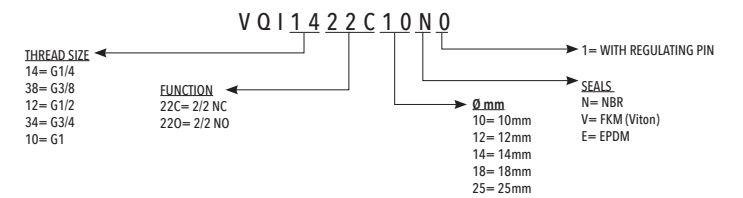
Direct acting
solenoid valves
VQD series



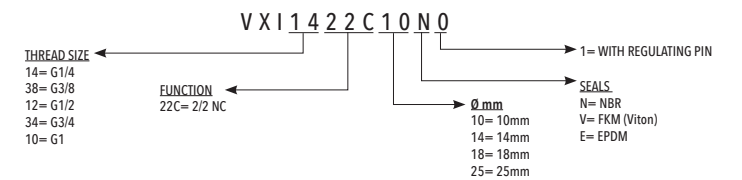
Direct acting
solenoid valves
VXD series



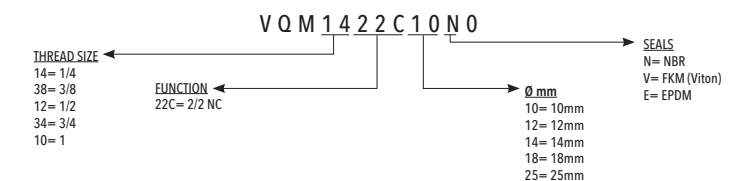
Indirect acting
solenoid valves
VQI series



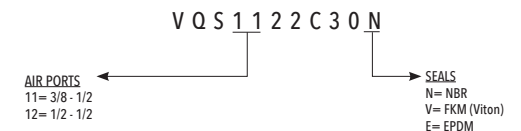
Indirect acting
solenoid valves
VXI series



Membrane solenoid
valves
VQM series



Condensed drain
valve
VQS series



Filters size 0
XF series



X F 0 0 0 1

THREAD
1=G 1/8
2=G 1/4

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

Regulator size 0
XR series



X R 0 0 0 0

THREAD
1= G 1/8
2= G 1/4

REGULATION RANGE
1= 0-2bar
2= 0-4bar
3= 0-8bar STANDARD
4= 0-12bar

Filter regulator size 0
XP series



X P 0 0 0 0 1

THREAD
1=G 1/8
2=G 1/4

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

REGULATION RANGE
1=0-2bar
2=0-4bar
3=0-8bar STANDARD
4=0-12bar

Lubricator size 0
XL series



X L 0 1 1 0

THREAD
1= G 1/8
2= G 1/4

FLOW RATE
1= 700 NI/min

Filterregulator
+Lubricator (Fr+L)



X S 0 0 0 0 1

THREAD
1=G 1/8
2=G 1/4

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

REGULATION RANGE
1=0-2bar
2=0-4bar
3=0-8bar STANDARD
4=0-12bar

Filter+Reg. +Lub.
(F+R+L)



X T 0 0 0 0 1 1

THREAD
1=G 1/8
2=G 1/4

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

REGULATION RANGE
1=0-2bar
2=0-4bar
3=0-8bar STANDARD
4=0-12bar

Filter size 1-2-3
XF series



X F 0 0 0 0

SIZE
1= 1
2= 2
3= 3

THREAD
1= 1/8 (size 1)
2= 1/4 (size 1)
3= 3/8 (size 1)
2= 1/4 (size 2)
3= 3/8 (size 2)
4= 1/2 (size 2)
4= 1/2 (size 3)
5= 3/4 (size 3)
6= 1" (size 3)

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

CONDENSATE EXHAUST
1= semiautomatic manual
2= automatic (only for size 2 and 3)

Regulator size 1-2-3
XR series



X R 0 0 0 0

SIZE
1= 1
2= 2
3= 3

THREAD
1= 1/8 (size 1)
2= 1/4 (size 1)
3= 3/8 (size 1)
2= 1/4 (size 2)
3= 3/8 (size 2)
4= 1/2 (size 2)
4= 1/2 (size 3)
5= 3/4 (size 3)
6= 1" (size 3)

REGULATION RANGE
1=0-2bar
2=0-4bar
3=0-8bar
4=0-12bar

Filter reg. size 1-2-3
XP series



X P 0 0 0 0 0

SIZE
1= 1
2= 2
3= 3

THREAD
1= 1/8 (size 1)
2= 1/4 (size 1)
3= 3/8 (size 1)
2= 1/4 (size 2)
3= 3/8 (size 2)
4= 1/2 (size 2)
4= 1/2 (size 3)
5= 3/4 (size 3)
6= 1" (size 3)

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

REGULATION RANGE
1=0-2bar
2=0-4bar
3=0-8bar
4=0-12bar

CONDENSATE EXHAUST
1= semiautomatic manual
2= automatic (only for size 2 and 3)

Lubricator size 1-2-3
XL series



X L 0 0 0 0

SIZE
1= 1
2= 2
3= 3

THREAD
1= 1/8 (size 1)
2= 1/4 (size 1)
3= 3/8 (size 1)
2= 1/4 (size 2)
3= 3/8 (size 2)
4= 1/2 (size 2)
5= 3/4 (size 3)
6= 1" (size 3)

OIL LOADING SYSTEM
1= Manual
2= Automatic to vacuum-operated
3= Two steps sensor manual

Filter+Lub. size 1-2-3
XO series



X 0 0 0 0 0 0 0

SIZE
1= (1)
2= (2)
3= (3)

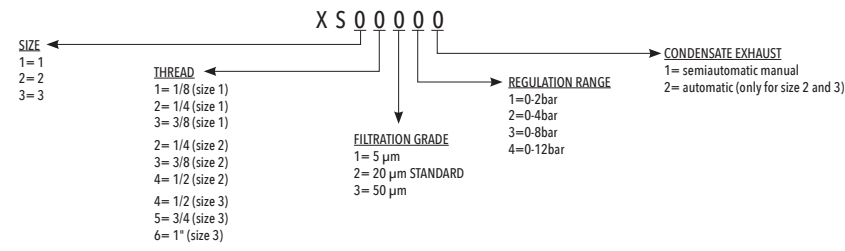
THREAD
1= 1/8 (size 1)
2= 1/4 (size 1)
3= 3/8 (size 1)
2= 1/4 (size 2)
3= 3/8 (size 2)
4= 1/2 (size 2)
4= 1/2 (size 3)
5= 3/4 (size 3)
6= 1" (size 3)

FILTRATION GRADE
1= 5 µm
2= 20 µm STANDARD
3= 50 µm

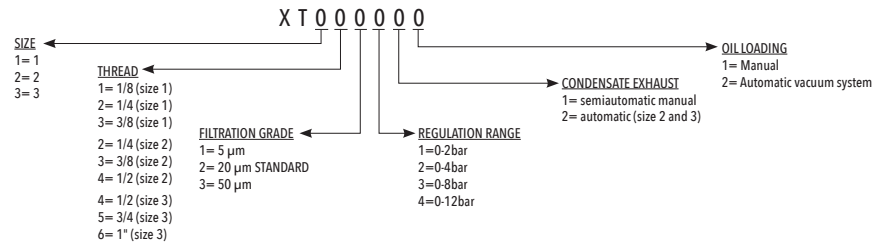
CONDENSATE EXHAUST
1= Semiautomatic manual
2= Automatic (size 2 and 3)

OIL LOADING
1= Manual
2= Automatic vacuum system

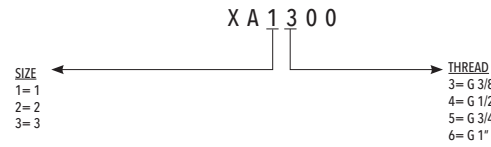
Filterregulator+Lub.
(FR+L)



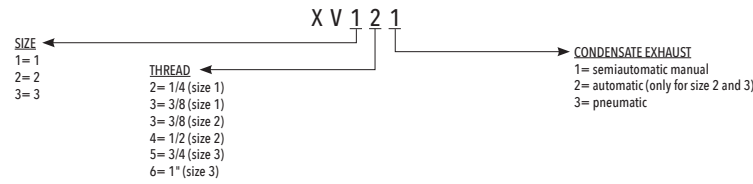
Filter+Regulator+Lubricator (F+R+L)



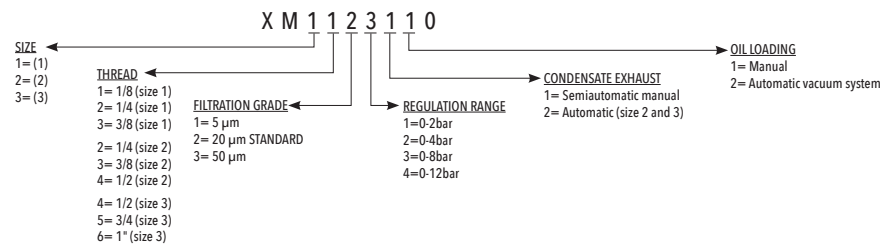
Soft start valve with quick
exhaust



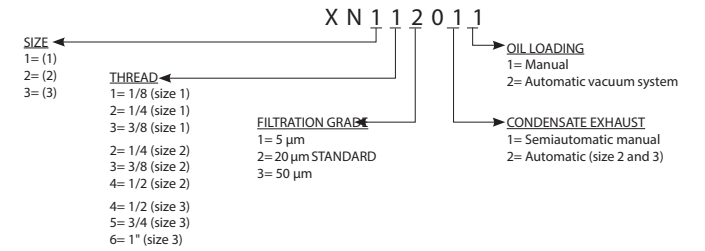
Shot off valve



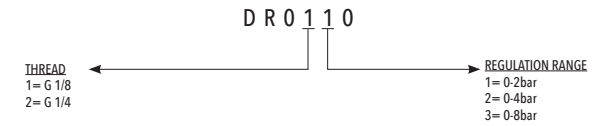
Valve+Filterregulator
+Lubricator
(V+FR+L)



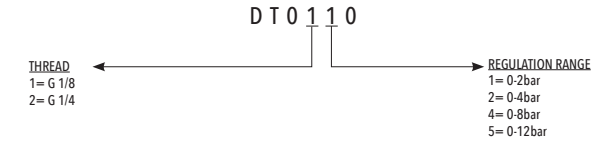
Valve+Filter+Regulator
+Lubricator
(V+F+R+L)



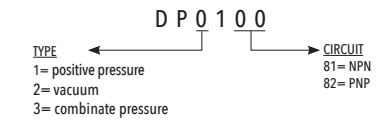
Precision regulator
DR series



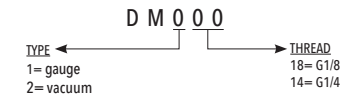
Microregulator
DT series



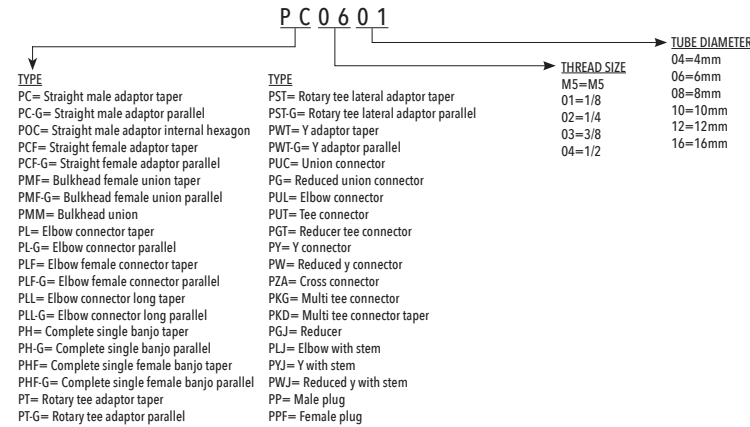
Digital pressure switch
DP series



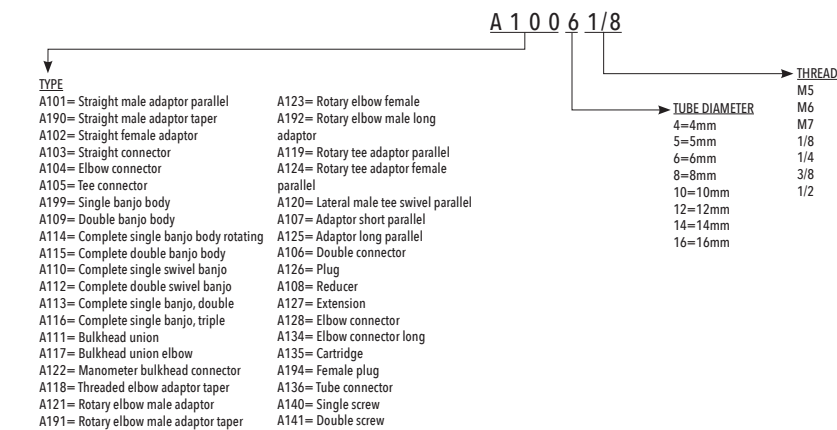
Digital gauge
DM series



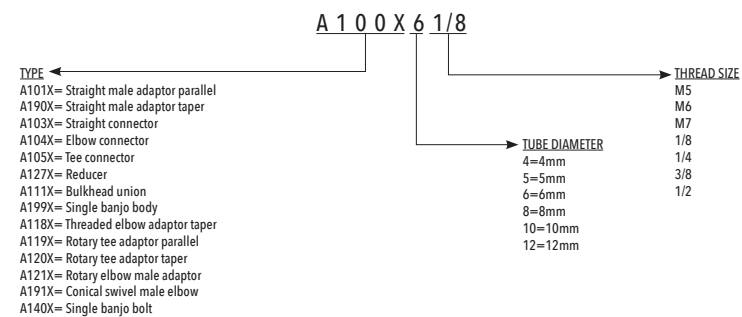
Push-In fittings
PC series



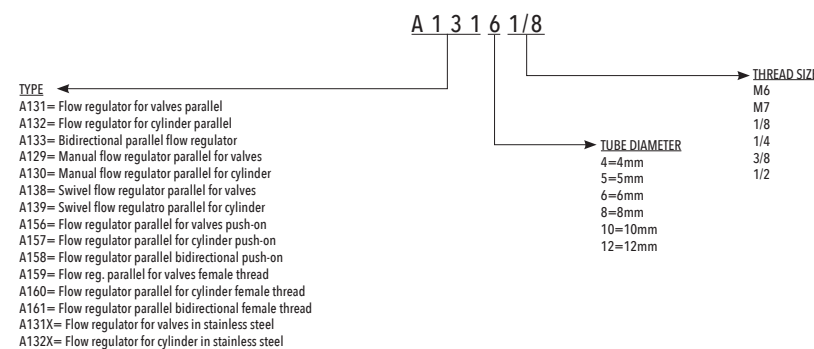
Push-In fittings in brass
A100 series



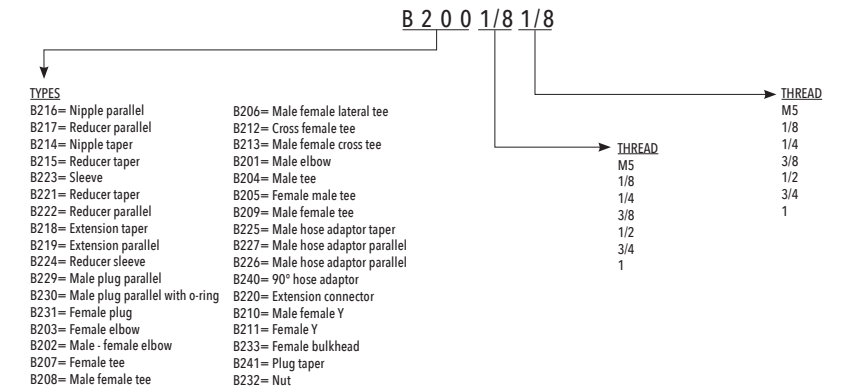
Push-In fittings stainless steel
A100X series



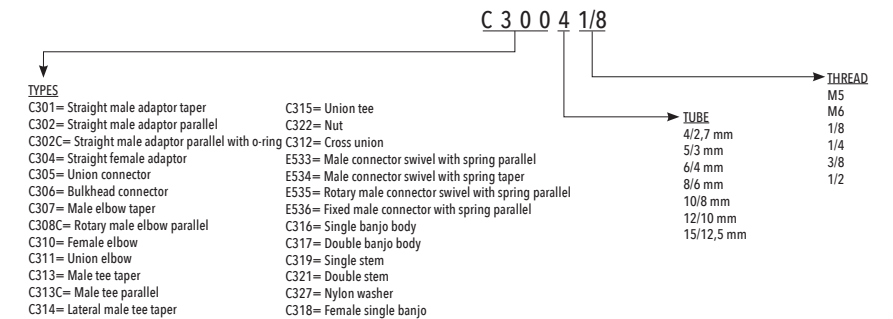
Flow regulators



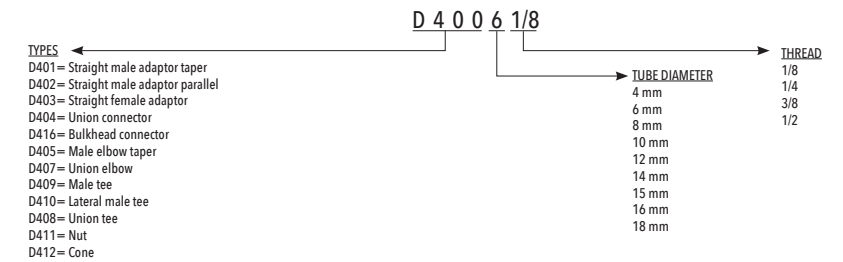
Standard fittings
B200 series



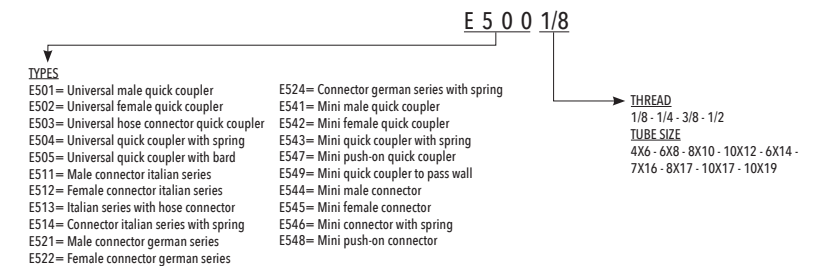
Push-on fittings
C300 series



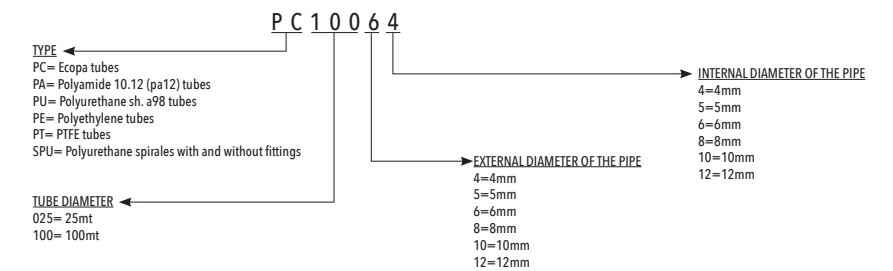
Compression fittings
D400 series



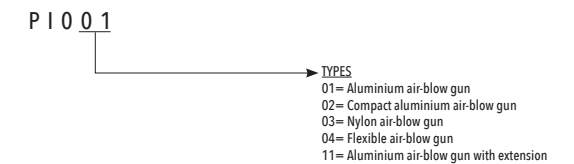
Automatic quick couplings
E500 series

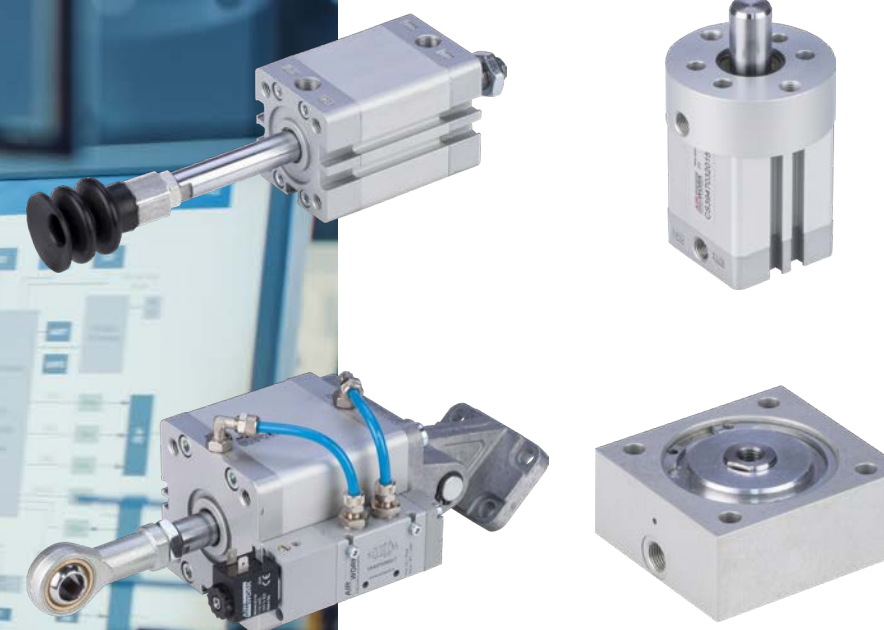
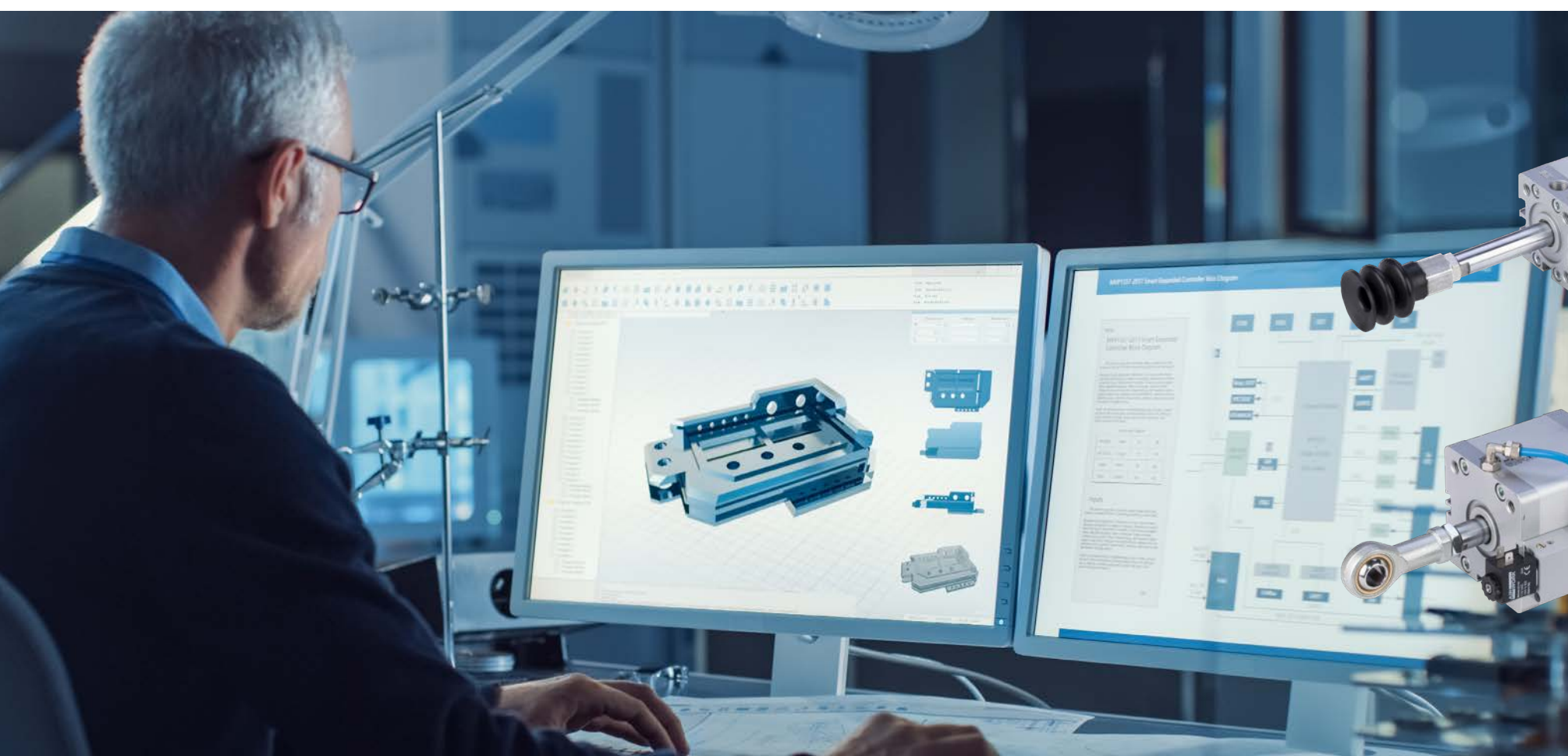


Tubes



Air-blow gun
PI series





EN - This selection represents a small part of the special cylinders and customised solutions that Airwork is able to supply to its customers.

These products are manufactured from either a standard product base or with entirely customised components, and are then designed according to specific customer requirements.

IT - Qui vengono mostrati solo una piccola parte dei cilindri speciali e soluzioni personalizzate che Airwork è in grado di fornire ai propri clienti.

Questi prodotti vengono realizzati partendo da una base di un prodotto standard oppure con componentistica totalmente speciale e quindi progettata su specifica richiesta dei clienti.

APPLICATION SECTORS

SETTORI DI APPLICAZIONE

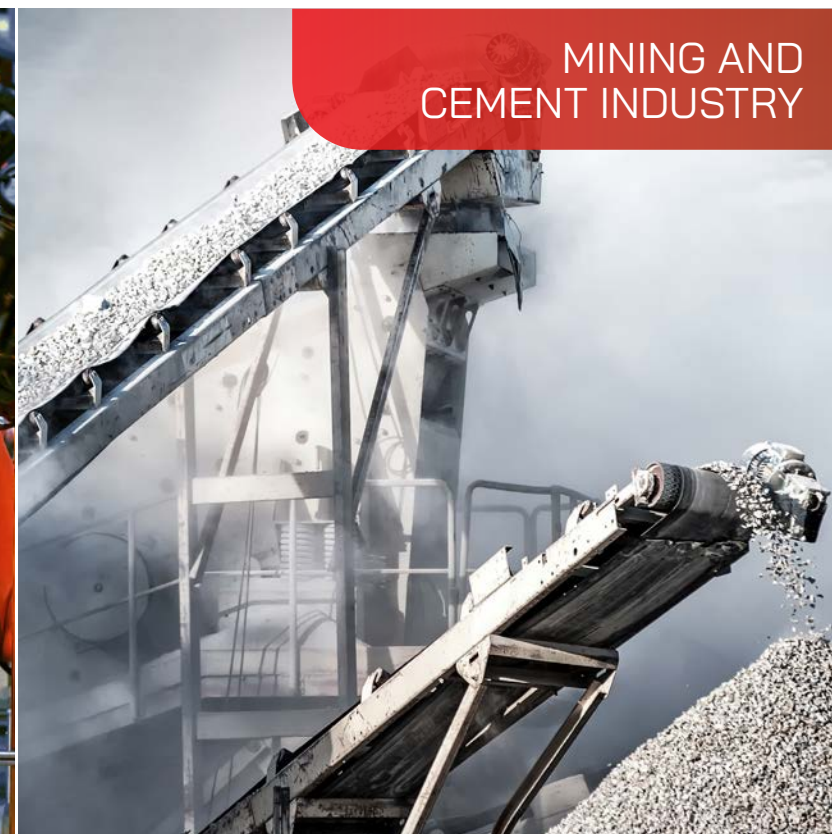
RAILWAY



AUTOMOTIVE



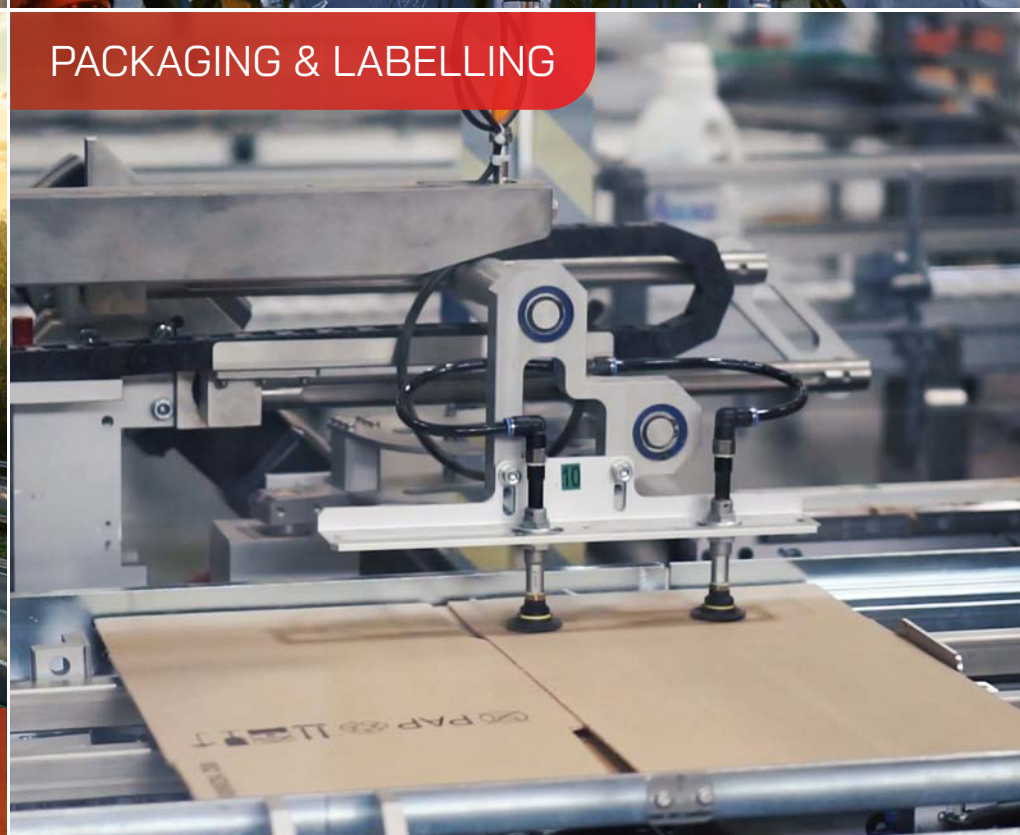
MINING AND
CEMENT INDUSTRY



CARWASH



PACKAGING & LABELLING



TRUCKS &
SPECIAL VEHICLES



FARMING



FOOD
INDUSTRY



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