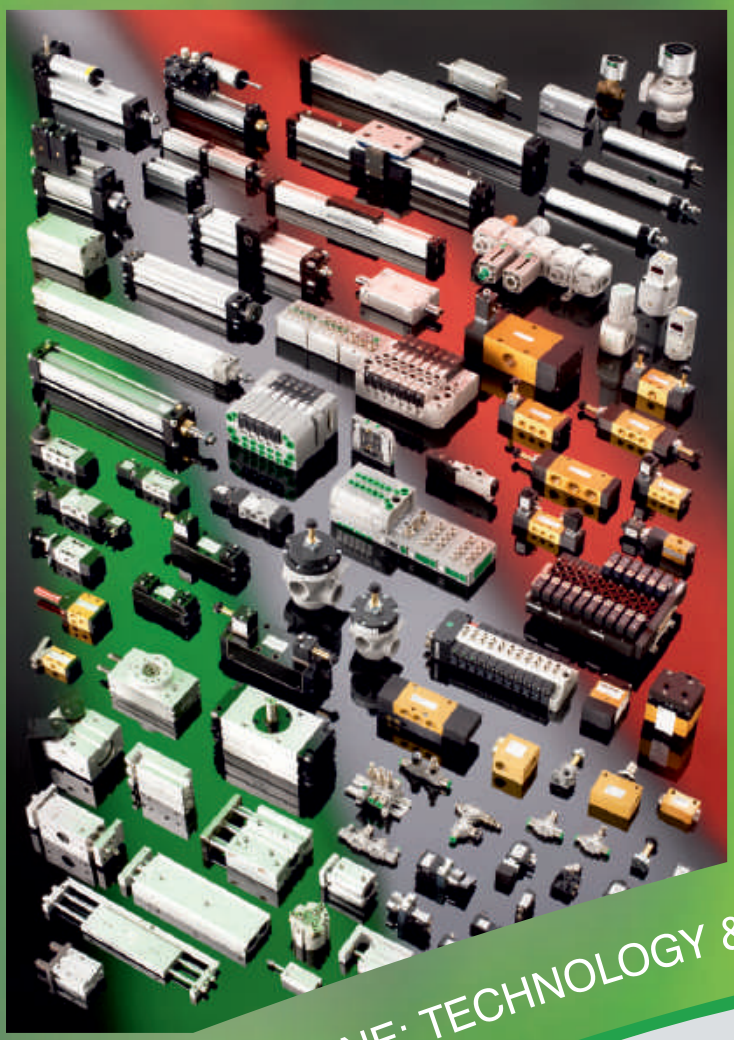
PNEUMAX

Components for Pneumatic Automation



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PNEUMAX

THE COMPANY

Founded in 1976, Pneumax is today one of the major European Manufacturer of components for pneumatics automation.
The wide range of products, consolidated reputation, reliability proven by millions of faultless components operating in the market every year, before and after sales service supported by a large and highly qualified sales network, well known capability of understanding and satisfying any customers need, make Pneumax the ideal partner beside a supplier rich of idea, technology and innovation.
Nine branches in Europe (Germany, France, United Kingdom, 2 in Spain, Portugal, Russia, Czech Republic Scandinavia, three in Far East (India, China, Singapore), one in South America (Pneumax Brasil) five in Italy besides hundred exclusive distributors ensure the distribution and service of our products around the world.
Pneumax S.p.a together with Supermeccanica and Titan Engineering has acquired a complex certificated system by SQS (Swiss Certification Entity) according to standards ISO 9001/2008 for a global quality governance: engineering and sales activity, ISO14001:2004 for environment and OHSA18001:2007 for security.
Further more, in order to grant the highest level of service both pre and post sales all sister companies are certified ISO 9001

PNEUMAX

Characteristics

Conforms to ISO 6432 Standards

Barrel	Stainless steel AISI 304
End covers	Hard anodised aluminium
Piston rod	Magnetic Piston: From Ø8 to Ø16 AISI 303, From Ø20 to Ø32 AISI 420 Non-Magnetic Piston: From Ø8 to Ø32 AISI 420 (on request AISI 303)
Seals	Standard: NBR Oil resistant rubber, PUR Piston rod seals
Max. working pressure	10 bar
Cushioning	Elastomer cushion pad standard, adjustable cushions optional

Basic version, without rear eye and push/pull rod

12 _ _ .Ø.stroke. _

- = Non magnetic piston
- **M** = Magnetic piston
- **A** = Adjustable cushioning with non magnetic piston (from Ø16)
- **A.M** = Adjustable cushioning with magnetic piston (from Ø16)
- **T** = HNBR seals version (-5°C + 120°C) for non magnetic piston

- **80** = Basic version
- **81** = Without rear eye version
- **82** = Push/Pull rod version
- **91** = Basic version front spring (max stroke 50 mm)
- **92** = Basic version rear spring, from Ø16 (max stroke 50 mm)
- **93** = Without rear eye front spring (max stroke 50 mm)
- **94** = Without rear eye rear spring from Ø16 (max stroke 50 mm)

Bore	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32
Port	M5	M5	M5	M5	G-1/8"	G-1/8"	G-1/8"

Standard strokes

Ø 8 and Ø 10: 15-25-50-75-80-100 mm

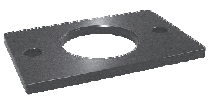
Ø 12 and Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm

Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

Ø 32: 15-25-50-75-80-100-150-160-200-250-300-320-350-400-450 -500 mm

Non-Std. strokes available on request

Foot	Piston rod forks	Rear eye
1200.Ø.01 (1 piece)	**1200.Ø.04/1** (with clips)	**1200.Ø.03**
		

Flange	Sensor	Sensor bracket
1200.Ø.02	**1580.U (2wire) / 1580.UAP (3wire)**	**1280.Ø.FS**
		

Characteristics

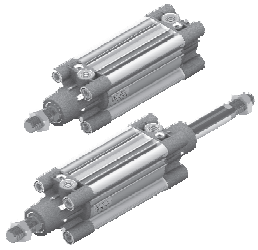
Conforms to ISO 15552 Standards

Barrel	Aluminium alloy anodised
End covers	Die-Casting aluminium
Piston rod	AISI 420 (on request AISI 303)
Seals	Standard: NBR Oil resistant rubber, PUR Piston rod seals
Max. pressure	10 bar
Cushioning	Adjustable cushioning standard at both ends

Tandem & Multi-position versions are available.

Accessory available for Eco-Light profile cylinders to mount valve directly on to the cylinders

Basic and Pull/Push Version Profile Cylinders



13_ _. Ø . STROKE. _

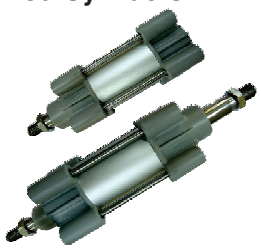
- **01** = Basic version
- **02** = Push/Pull version
- **90** = Magnetic AISI 420 rod
- **91** = Magnetic AISI 303 rod
- **92** = Non magnetic AISI 420 rod

Bore	Ø32	Ø40	Ø50	Ø63	Ø80
Port	G-1/8"	G-1/4"	G-1/4"	G-3/8"	G-3/8"

Bore	Ø100	Ø125	Ø160	Ø200	
Port	G-1/2"	G-1/2"	G-3/4"	G-3/4"	

Standard strokes
from 0 to 150 every 25 mm;
from 150 to 500 every 50 mm;
from 500 to 1000 every 100 mm
Non-Std. strokes available on request

Basic and Pull/Push Version Tie Rod Cylinders



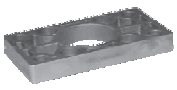
13_ _. Ø . STROKE. _.TR

- **01** = Basic version
- **02** = Push/Pull version
- **90** = Magnetic AISI 420 rod
- **91** = Magnetic AISI 303 rod
- **92** = Non magnetic AISI 420 rod

Bore	Ø32	Ø40	Ø50	Ø63
Port	G-1/8"	G-1/4"	G-1/4"	G-3/8"

Bore	Ø80	Ø100
Port	G-3/8"	G-1/2"

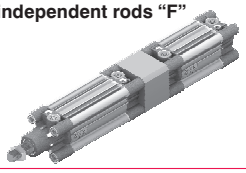
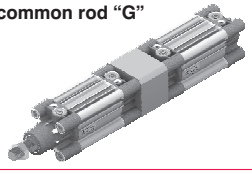
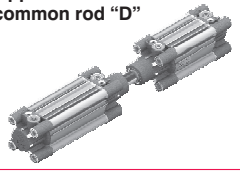
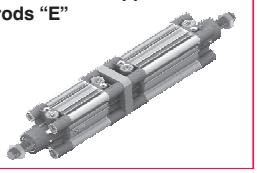
Standard strokes
from 0 to 150 every 25 mm;
from 150 to 500 every 50 mm;
from 500 to 1000 every 100 mm
Non-Std. strokes available on request

Flange	Short feet	Front clevis	Rear Female clevis
1380.Ø.03F	1320.Ø.05/1F (1 piece)	1380.Ø.08F	1380.Ø.09F
			

Rear male clevis	Square angle trunnion	Rear male clevis (with jointed head)	Support for intermediate trunnion
1380.Ø.09/1F	1380.Ø.35F	1380.Ø.15F	1320.Ø.12/1F (1 piece)
			

Intermediate trunnion-profile	Intermediate trunnion-tie rod	Ball joint	Fork	
1390.Ø.12F	1300.Ø.12F.PNXS	1320.Ø.32F	1320.Ø.13/1F	1320.Ø.13F
			(With clips-Ø32 - Ø100)	(W/o clips-Ø125-Ø160)
				

Self-aligning joint (Ø32 to Ø100)	Sensor	Sensor-profile	Sensor bracket (Tie Rod)
1320.Ø.33F	1580.U(2wire) / 1580.UAP(3wire)	1590.U(2wire) / 1590.HAP(3wire)	DT - 1(Ø 32-63)/DT - 2(Ø 80-100)
			

Other Options	Tandem push with independent rods "F"	Tandem push with common rod "G"	Opposed tandem with common rod "D"	Tandem with opposed rods "E"
				

Characteristics

Barrel	Anodised aluminium
End plate	Anodised aluminium
Rod	Magnetic Piston: From Ø20 to Ø25 AISI 303, From Ø32 to Ø100 AISI 420 Non-Magnetic Piston: From Ø20 to Ø100 AISI 420 (on request AISI 303)
Seals	Standard: NBR Oil resistant rubber, PUR Piston rod seals
Max. working pressure	10 bar
Tandem, Multiposition & Non-rotating versions are available.	
It is interesting to note that these cylinders (from Ø 32 to Ø 100) have anchoring holes with the same lead and thread as those of series 1390 ISO 6431, they accept all mountings except for the intermediate trunnion.	

Basic and Push / Pull Version

15_ _ .Ø.stroke._

- **–** = Standard seals with female thread on piston rod
- M = Standard seals with male thread on piston rod
- T = HNBR seals version (-5°C + 120°C) with female thread on piston rod for non magnetic piston
- M.T = HNBR seals version (-5°C + 120°C) with male thread on piston rod for non magnetic piston

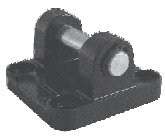
- **01** = Double acting version
- **11** = Double acting version with magnetic piston
- **02** = Single acting version front spring
- **12** = Single acting version front spring with magnetic piston
- **03** = Single acting version rear spring
- **13** = Single acting version rear spring with magnetic piston
- **04** = Double acting push pull version
- **14** = Double acting push pull version with magnetic piston

Bore	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
Port	G-1/8"	G-1/8"	G-1/8"	G-1/8"	G-1/8"	G-1/8"	G-3/8"	G3/8"

Standard strokes:
Type 1501, 1504, 1511, 1514:
for all bores from 5 to 50 mm every 5 mm.

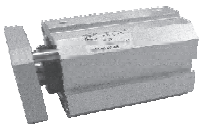
Type1502, 1503, 1512 and 1513:
for all bores from 5 to 10 mm.

Non-Std. strokes available on request

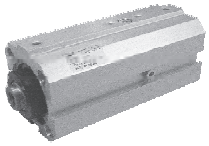
Rear female clevis	Rear male clevis	Sensor	Sensor bracket
1500.Ø.09F from Ø 20 to Ø 100	**1500.Ø.09/1F** from Ø 20 to Ø 100	**1580.U (2wire) /** **1580.UAP (3wire)**	**1380.01F**
			

Other Options

Non-Rotating Cylinder

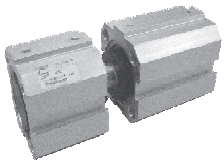


Tandem push with independent rods



Tandem push with common rods

Opposed tandem with common rods

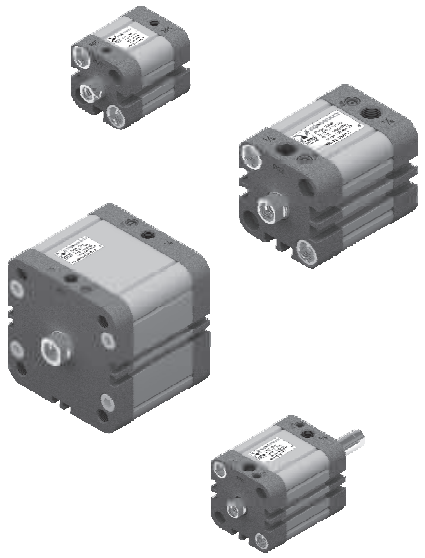


Characteristics

Conforms to ISO 21287 Standards

Barrel	Anodised aluminium
End covers	Aluminium alloy casting painted
Piston rod	Magnetic Piston: From Ø20 to Ø25 AISI 303, From Ø32 to Ø100 AISI 420 (on request AISI 303) Non-Magnetic Piston: From Ø20 to Ø100 AISI 420 (on request AISI 303)
Seals	Standard: NBR Oil resistant rubber, PUR Piston rod seals
Max. working pressure	10 bar
Cushioning	Elastomer cushion pad standard, adjustable cushions from dia 25 onwards optional
Tandem, Multiposition & Non-rotating versions are available.	

Basic and Push/Pull Version



15 _ _.Ø.stroke. _ _ .

- **1** = magnetic piston, Double acting
- **2** = magnetic piston, Single acting with front spring
- **3** = magnetic piston, Single acting with rear spring
- **4** = non magnetic piston, Double acting
- **5** = non magnetic piston, Single acting with front spring
- **6** = non magnetic piston, Single acting with rear spring

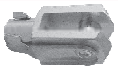
- **01** = Basic, female threaded rod
- **02** = Basic, male threaded rod
- **03** = through rod, female threaded rod
- **04** = through rod, male threaded rod
- **05** = through rod, bored female threaded rod
- **06** = through rod, bored male threaded rod
- **07** = With non-rotating device

- **0** = NBR seals and AISI 420 rod (Ø20 & Ø25 AISI 303 rod)
- **1** = NBR seals and AISI 303 rod (starting from bore Ø32)
- **6** = FPM seals and AISI 420 rod (Ø20 & Ø25 AISI 303 rod)
- **7** = FPM seals and AISI 303 rod (starting from bore Ø32)

- **4** = Non-cushioned version (mechanical cushioning only)
- **5** = Versions with adjustable end of stroke cushioning system (from Ø25)

Bore	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
Port	M5	M5	G-1/8"	G-1/8"	G-1/8"	G-1/8"	G-1/8"	G-1/8"

Flange	Foot	Rear female clevis	Rear male clevis
Ø20 - Ø25: 1540.Ø.03F **Ø32 - Ø100: 1380.Ø.03F**	**1540.Ø.05/1F (1 piece)**	**1380.Ø.09F** **(Ø32-Ø100)**	**Ø20-Ø25:1580.Ø.09/1F** **Ø32-Ø100:1380.Ø.09/1F**
			

Rear male clevis (with jointed head)	Ball joint	Fork with clips	Sensor
1380.Ø.15F **(Ø32-Ø100)**	**Ø20 - Ø25: 1200.20.32F** **Ø32 - Ø40: 1320.32.32F** **Ø50 - Ø63: 1320.40.32F** **Ø80 - Ø100: 1320.50.32F**	**Ø20 - Ø25: 1200.20.04/1** **Ø32 - Ø40: 1320.32.13/1F** **Ø50 - Ø63: 1320.40.13/1F** **Ø80 - Ø100: 1320.50.13/1F**	**1580.U (2wire) /** **1580.UAP (3wire)**
			

Other Options

Tandem push with independent rod

Tandem with opposed rods

Tandem push with common rod

Opposed tandem with common rods

Conforms to UNITOP dimensions.

Interchangeble with similar UNITOP products available in market.

Bore: Ø12, 16, 20, 25, 32, 40, 50, 63, 80, 100

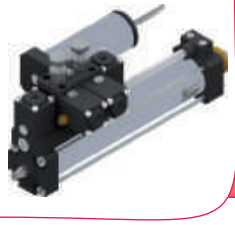
EUROPE Cylinders

Space saving design over conventional cylinders.

Cylinder with sliding shoe guide option

Bore: Ø25, 32, 40, 50, 63

Rodless Cylinders



Pneumatic Cylinder ISO 15552 Handling and controlling movement by means of internal hydraulic circuit.

Speed regulation in one or both the direction with skip and stop function.

Bore: Ø40 - Ø63

Hydraulic Speed Control

Guided compact cylinders comprises compact cylinder with integral guide with installation flexibility and space saving design.

Available in self lubricating bronze bushes or optional bearing bushes.

Bore: Ø12, 16, 20, 25, 32, 40, 50, 63, 80

Guided Cylinders

Twin rod linear guide units are used in manipulations applications and are characterised by there high force output thanks to double piston design,

The characteristic of these cylinder is the precision of their anti rotational design

Bore: Ø10, 15, 20, 25, 32

Twin Rod Slide Unit

Angular Gripper are typically used in complex systems such as assembly machines, robots, manipulators etc.

The range include gripper equipped with holding finger.

Bore: Ø10, 16, 20, 25, 32, 40, 50

Angular Grippers

The parallel grippers cater for larger openings with synchronized operation via a pinion-rack system with high strength thanks to a double piston mechanism.

Bore: Ø10, 16, 20, 25

Parallel Grippers

Double-acting piston.
Wide range of options for mounting.
High precision.
High holding force.

Bore: Ø16, 20, 25, 32, 40, 50, 63, 80, 100, 125

3 Fingers Parallel Grippers

These rotary actuators convert linear motion of a piston into a rotary motion via a rack and pinion device, using a single pinion-rack system.

Bore: Ø50, 63, 80, 100

Rotary Actuators

Flat & compact design with installation facility and space saving in mind.

Protected against torsion due to special piston shape.

Bore: Ø25, 32, 40, 50, 63

ECO Flat Cylinders

Competitively priced, good performance and versatility combined with a compact design are the main characteristics of this new series of valves. The aluminium valve body and spool/seal arrangement optimize both the flow rate and the vale switching time. This new series of valves are available with G1/8", G1/4" ports in 3/2, 5/2 and 5/3 versions. Monostable or bistable versions are available and include a G1/8" built in manual override.

These valves have been designed to be easily assembled on Manifold & include optional integral electrical connectors to facilitate simple and speedy integration into a controlled system.

Construction characteristics

Body	Aluminium
Spools	Aluminium
Seals	NBR
Springs	Spring Steel

Operational characteristics

Max. Operating Pressure	8 bar
Min. Operating Pressure	2 bar

3/2, 5/2 Solenoid Valve
G1/8" & G1/4"

888(P).(T).(F).39.(V)

(P)	PORT
	0=G1/8"
	4=G1/4"
(T)	TYPE
	32 = 3 ways
	52 = 5 ways
(F)	FUNCTION
	A=3/2 Normally Open
	C=3/2 Normally Closed
	00=5/2
(V)	VOLTAGE
	F05=24 V DC
	F56=24 V (50-60 Hz)
	F57=110 V (50-60 Hz)
	F58=220 V (50-60 Hz)

3/2, 5/2 Double Solenoid Valve
G1/8" & G1/4"

888(P).(T).00.35.(V)

(P)	PORT
	0=G1/8"
	4=G1/4"
(T)	TYPE
	32 = 3 ways
	52 = 5 ways
(V)	VOLTAGE
	F05=24 V DC
	F56=24 V (50-60 Hz)
	F57=110 V (50-60 Hz)
	F58=220 V (50-60 Hz)

5/3 Double Solenoid Valve
G1/8" & G1/4"

888(P).53.(F).35.(V)

(P)	PORT
	0=G1/8"
	4=G1/4"
(F)	FUNCTION
	31=Closed centres
	32=Open centres
	33=Pressured centres
(V)	VOLTAGE
	F05=24 V DC
	F56=24 V (50-60 Hz)
	F57=110 V (50-60 Hz)
	F58=220 V (50-60 Hz)

Endplate, 37 Poles IP65

Ordering code

888M.37.10

Endplate, 25 Poles IP65

Ordering code

888M.25.10

Modular base, 2 positions IP65

Ordering code

888M.02.BM

Left and Right Power board PNP 24 VDC

Ordering code

888M.(P).(T)

(P)	N. POSITIONS
	04=nr. 4 pos.
	08=nr. 8 pos.
	12=nr. 12 pos.
	16=nr. 16 pos.
(T)	TYPE
	00 = Left side
	01 = Right side

Closing Plate

Ordering code

888M.22.PC

Multipolar base plug

Ordering code

888M.T

In line cable complete with connector IP40

Ordering code

2400.(T).(L).00

(T)	CONNECTORS
	25 = 25 poles
	37 = 37 poles
(L)	CABLE LENGTH
	03 = 3 meters
	05 = 5 meters
	10 = 10 meters

Cable complete with connector, 25 Poles IP65

Ordering code

2300.25.(L).(C)

(L)	CABLE LENGTH
	03 = 3 meters
	05 = 5 meters
	10 = 10 meters
(C)	CONNECTORS
	10 = In Line
	90 = 90° Angle

Cable complete with connector, 37 Poles IP65

Ordering code

2400.37.(L).(C)

(L)	CABLE LENGTH
	03 = 3 meters
	05 = 5 meters
	10 = 10 meters
(C)	CONNECTORS
	10 = In Line
	90 = 90° Angle

Manifold

888.(P)

(P) POSITIONS

02 = 2 pos.	08 = 8 pos.
03 = 3 pos.	09 = 9 pos.
04 = 4 pos.	10 = 10 pos.
05 = 5 pos.	12 = 12 pos.
06 = 6 pos.	16 = 16 pos.
07 = 7 pos.	

Closing Plate

888.00

Seals

Ordering code

888M.22.G

These valves have aluminium or technopolymer body. The reliability of these valves have been proven over years by millions of faultless valves operating in market. This series of valves are available with G1/8"& G1/4" ports in 3/2, 5/2 and 5/3 versions. Monostable or bistable versions are available and they have built in manual override.

Construction characteristics

Body	Aluminium (488, 484) / Technopolymer (T488)
Spools	Stainless Steel (488, 484) / Technopolymer (T488)
Seals	NBR
Springs	Spring Steel

Operational characteristics

Max. Operating Pressure	10 bar
Min. Operating Pressure	2.5 bar

3/2, 5/2 Single Solenoid Valve G1/8"

T488.(T).0.1.(V)

	TYPE
T	32 = 3 ways
	52 = 5 ways
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 Hz

3/2, 5/2 Double Solenoid Valve G1/8"

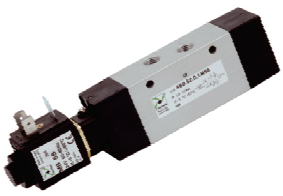
T488.(T).0.0.(V)

	TYPE
T	32 = 3 ways
	52 = 5 ways
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 Hz

5/3 Double Solenoid Valve G1/8"

T488.53.(F).0.0.(V)

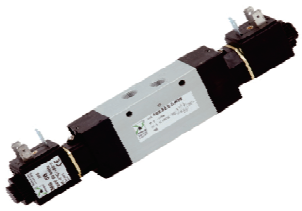
	FUNCTION
F	31 = Closed centres
	32 = Opened centres
	33 = Pressured centres
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8 W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 Hz



3/2, 5/2 Single Solenoid Valve G1/8" & 1/4"

48(P).(T).0.1.(V)

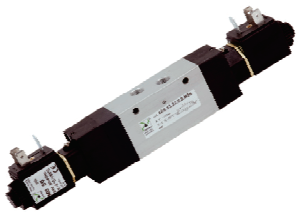
	PORT
P	8 = G 1/8" - All Ports
	4 = G 1/4" - Inlet & Outlet Ports
	TYPE
T	32 = 3 ways
	52 = 5 ways
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 HZ



3/2, 5/2 Double Solenoid Valve G1/8" & 1/4"

48(P).(T).0.0.(V)

	PORT
P	8 = G 1/8" - All Ports
	4 = G 1/4" - Inlet & Outlet Ports
	TYPE
T	32 = 3 ways
	52 = 5 ways
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 HZ



5/3 Double Solenoid Valve G1/8" & 1/4"

48(P).53.(F).0.0.(V)

	PORT
P	8 = G 1/8" - All Ports
	4 = G 1/4" - Inlet & Outlet Ports
	FUNCTION
F	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
	VOLTAGE
V	M9 = 24 V D.C. (rating power 2 W)
	M11 = 24 V D.C. (rating power 3.8W)
	M56 = 24 V 50/60 Hz
	M57 = 110 V 50/60 Hz
	M58 = 220 V 50/60 HZ

Common Manifold for T488/488/484

T488.(N)
(Aluminium)

(N) POSITIONS	
02 = 2 pos.	08 = 8 pos.
03 = 3 pos.	09 = 9 pos.
04 = 4 pos.	10 = 10 pos.
05 = 5 pos.	
06 = 6 pos.	
07 = 7 pos.	

Closing Plate

T488.00

Modular Manifold For T488

T488.01

The main characteristic of these valves is their poppet type construction. This offers superior resistance to adverse operating conditions such as dust particles in the compressed air and so on. The main components constituting the valves of the Tecno228 series are manufactured with high performance technopolymer. The use of tecnopolymer has resulted in a light weight product which can be offered to the market at very interesting prices. This valve series is manufactured with G1/8", G1/4" connections, 3 and 5 ways function, monostable spring or pneumatic return, bistable and in 5 ways 3 positions version.

Construction characteristics

Body	Aluminium (484) / Technopolymer (T228 / T224)
Spools	Stainless Steel (484) / Technopolymer (T228, T224)
Seals	NBR
Springs	Spring steel
Max. Operating Pressure	10 bar

Roller lever-Spring G1/8"

Ordering code: **T228.T.2.V**

T	TYPE 32 = 3 ways 52 = 5 ways
V	VERSION 1=Plastic roller 1/2=Ball bearing

Push button-spring G1/8"

Ordering code: **T228.T.6.22/C**

T	TYPE 32 = 3 ways 52 = 5 ways
C	BUTTON COLOR 1=Red 2=Black 3=Green 4=Yellow

Palm button-2 positions G1/8"

Ordering code: **T228.T.6.25**

T	TYPE 32 = 3 ways 52 = 5 ways

Switch-2 positions G1/8"

Ordering code: **T228.T.6.27**

T	TYPE 32 = 3 ways 52 = 5 ways

Push button-2 positions G1/8"

Ordering code: **T228.T.8/C**

T	TYPE 32 = 3 ways 52 = 5 ways
C	BUTTON COLOR 1=Red 2=Black 3=Green

Lever lateral-2 positions G1/8"

Ordering code: **T228.T.9/C**

T	TYPE 32 = 3 ways 52 = 5 ways
C	LEVER COLOR 1=Red 2=Black 3=Green

Lever Lateral - 3 positions G1/8"

Ordering code: **T228.53.F.9/C**

F	FUNCTION 31=Closed Centres 32=Open Centres
C	LEVER COLOR 1=Red 2=Black 3=Green

Push button - 2 position G1/4"

Ordering code: **T224.T.8**

T	TYPE 32 = 3 ways 52 = 5 way

Lever lateral - 2 positions G1/4"

Ordering code: **T224.T.9/C**

T	TYPE 32 = 3 ways 52 = 5 ways
C	LEVER COLOR 1=Red 2=Black 3=Green

Lever lateral - 3 positions G1/4"

Ordering code: **T224.53.F.9/C**

F	FUNCTION 31=Closed centres 32=Open centres 33=Pressured centres
C	LEVER COLOR 1=Red 2=Black 3=Green

Pneumatic - Spring G1/8"

Ordering code: **T228.T.11.1**

T	TYPE 32 = 3 ways 52 = 5 way

Pneumatic - Pneumatic G1/8"

Ordering code: **T228.T.11.11**

T	TYPE 32 = 3 ways 52 = 5 ways

Pneumatic Valves G1/4"

Ordering code: **T224.T.11.R**

T	TYPE 32 = 3 ways 52 = 5 ways
R	RESET 1= Spring Return 11= Pneumatic

Lever lateral - 2 positions G1/4"

Ordering code: **484.T.9/2** (Aluminium)

T	TYPE 32 = 3 ways 52 = 5 ways

Push Button - 2 position G1/4"

Ordering code: **484.T.8** (Aluminium)

T	TYPE 32 = 3 ways 52 = 5 ways

Quick Exhaust Valves

Ordering code
50318 - G1/8”
50314 - G1/4”
50338 - G3/8”
50312 - G1/2”
50334 - G3/4”
50301 - G1”

Uni-Directional Valves / Check Valves

Ordering code
6.07.05 - M5
6.07.18 - G1/8”
6.07.14 - G1/4”
6.07.38 - G3/8”
6.07.12 - G1/2”

Hand Slide Valves

Ordering code
504M5 - M5
50418 - G1/8”
50414 - G1/4”
50438 - G3/8”
50412 - G1/2”
50434 - G3/4”

Uni-Directional Flow Control Valves

Ordering code
6.01.18NE - G1/8”
6.01.14N - G1/4”
6.01.12N - G1/2”

Pneumatic Timer

Ordering code
900.18.3 - 0-30 sec
900.18.3-60 - 0-60 sec

Pressure Switch

Ordering code
900.18.1-1 - 0.5-1 bar
900.18.1-4 - 3.5-4 bar

Shuttle Valves “And”

Ordering code
6.04.05/1 - M5
6.04.18/1 - G1/8”

Shuttle Valves “OR”

Ordering code
6.04.05 - M5
6.04.18 - G1/8”
6.04.14 - G1/4”

Blocking Valves

Ordering code
Uni-Directional
6.09.14.UN - G1/4”
6.09.12.UN - G1/2”
Bi-Directional
6.09.14.BN - G1/4”
6.09.12.BN - G1/2”

Oscillator Valves G1/8”

Ordering code
900.52.5C

Technical innovation high performance and compact size are the main features of ENOVA valves. Each valve comprises all the necessary pneumatic and electrical functions needed to produce solenoid valve assembly.

Electrical connection are made via 25 pin connector which is capable of controlling upto 22 solenoids.

Connection available: 4, 6, 8 mm tube

ENOVA Valves

OPTYMA is the base mounted design including electrical connections into the manifold.
Quick mounting of the valves on the base using just one screw.
Possibility to use different pressure along the manifold including vacuum and integrate with field bus module.
Electrical connections are made via 25 or 37 pin connectors which is capable of controlling upto 22 & 32 solenoids respectively.

Connection available: 4, 6mm tube & G1/4"

OPTYMA Valves

2000 series solenoid valves have been designed to be easily assembled into modular manifolds and include integral electrical connections to facilitate simple and speedy integration into a control systems.

There are 3 main sizes 10mm, 18mm & 26mm

Connection available: M5, 1/8", 1/4", 3/8"

Series 2000 Valves

Namur interface ideal for use on process valves in many industry segments and applications like pharmaceuticals, water, chemicals, fertilizers.

These valves have Namur hole pattern and can therefore be directly mounted on other suitable components that also have same hole pattern.

Connection available: 1/4"

Namur Valves

These are directly operated 3/2 solenoid valves and has min. overall dimensions 22mm. They are suitable to be single or gang mounted.

They are equipped with manual over ride and are
N.C or N.O.

Connection available: M5, 1/8"

Series 300 22mm Valves

These are directly operated 2/2 & 3/2 solenoid valves and have minimum overall dimensions
10/15mm.

They are equipped with manual over ride and are N.C or N.O.

They are suitable to be single or gang mounted.

Connection available: M5

Series 300 15mm Valves

These valves have some of their dimensional and functional characteristics that complies with international standard ISO 5599/1 which require that distributor manufactured by different maker be interchangeable.

These valves can be used mounted on individual base or gang bases.

Connection available: ISO Size 1, 2 & 3

ISO Valves

Direct acting/with pilot control suitable for water, air, steam, drinks, chemicals,

Connection available:

M5, 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2"

2/2 Way Valves

- Remove water and dust particles effectively.
- 40 μm and 5 μm filter element are easily interchangeable and replaceable.
- Accurate and easy pressure setting.
- Oil spray in mist ensures good lubrication for machines.
- Operating Pressure: 0.5 to 10 bar

Filter Regulator + Lubricator

Ordering code

PNX-FRC-(E)-D-(C)-(W)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	03 = 3/8"
	04 = 1/2"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Filter Regulator + Lubricator

Ordering code

PNX-FRC-(E)-D-(C)-(W)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	02 = 1/4"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Filter Regulator

Ordering code

PNX-FR-(E)-D-(C)-(W)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	03 = 3/8"
	04 = 1/2"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Filter Regulator

Ordering code

PNX-FR-(E)-D-(C)-(W)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	02 = 1/4"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Filter

Ordering code

PNX-F-(E)-D-(C)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	03 = 3/8"
	04 = 1/2"

Filter

Ordering code

PNX-F-(E)-D-(C)

(E)	FILTER ELEMENT
	A = 5 micron
	C = 40 micron
(C)	CONNECTION
	02 = 1/4"

Regulator

Ordering code

PNX-R-D-(C)-(W)

(C)	CONNECTION
	03 = 3/8"
	04 = 1/2"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Regulator

Ordering code

PNX-R-D-(C)-(W)

(C)	CONNECTION
	02 = 1/4"
(W)	GAUGE
	- = W/o Gauge
	G = With Gauge

Lubricator

Ordering code

PNX-L-(C)

(C)	CONNECTION
	03 = 3/8"
	04 = 1/2"

Lubricator

Ordering code

PNX-L-(C)

(C)	CONNECTION
	02 = 1/4"

The great advantage of these air service units components is there modular design which allows there assembly without the use of additional accessories.

Shut off valve, progressive startup valve, air intake block can be assemble in the system.

Port: 1/8", 1/4", 3/8",1/2" & 3/4" & 1"

FR+L

Shutoff valve can be equipped with lock to prevent accident or damage due to un-authorised operations.

Port: 1/4", 3/8", 1/2" & 1"

Shutoff Valves

The progressive solenoid valve pneumatically or electro pneumatically controls allows air supply to the circuit progressively and with adjustable time.

Port: 1/4", 3/8",1/2" & 1"

Progressive Startup Valves

Diaphragm pressure regulator with techno polymer body and aluminium reinforced threaded connections.

These regulators are available with relieving, no relieving, improve reliving, and quick exhaust options for different applications.

Port: 1/8" & 1/4"

Panel Mounting Pressure Reg.

Accurate capacity to maintain set pressure sensitivity combine with high reliving rates.

High flow rate with extremely low pressure drop.

Pressure adjusting lockable handle by simply pressing it down word.

Body made with anodized aluminium alloy.

Port: 1/4" & 1/2"

Precision Regulators

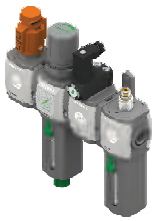
Pneumax modular regulators have a common inlet for the whole manifold joined by a bayonet system.

Alternatively to standard version it is also possible to use regulators with manometer included.

This solution allows space savings on machine.

Port: 1/8" & 1/4"

Manifold Pressure Regulators



The new air plus series frl features modular design increased performance easy & fast assembly and introduction of latest technical features.

These air service units are available in Technopolymer body with an option of metal inserts.

Port: 1/8", 1/4", 3/8" & 1/2"

Air Plus

Pressure booster boosts the line pressure without additional electrical power source.

Automatic operation for use with compressed air only.

Integerated regulator for output pressure control.

Dia: 40, 63 & 100

Booster

The electronic proportion regulator controls air pressure proportional to an electrical signals.

7 digital inputs and 1 analog input.
High Flow rate.
RS 232 communication.
Linearity: <± 0.3% FS, Hysteresis: <0.3% FS,
Repeatibility: <± 0.3% FS.

Port: M5, 1/4" & 1/2"

Electronic Proportional Reg.

Two switch output and one analog output hysteresis adjustable high accuracy and resolution.

Pressure range: Compound -100~100kPa
Vaccum 0~101.3kPa
Positive 0~1MPa
Programmable pressure unit

Port: 1/8"

Digital Pressure Switch

TECHNICAL SPECIFICATIONS

FLUID	AIR - (No other Gases or liquids)
Operating Pressure	0-10 Kgf/cm2
Negative Pressure	-750mm Hg
Operating Temp.	0-60°C
Applicable Tube	Polyurethane & Nylon
O-Rings	NBR
Body	Brass / Technopolymer

Straight Male Connector

Code	øD	Thread	Code	øD	Thread
PPCG4-M5G	4	M5	PPCG8-03G	8	G3/8
PPCG4-01G	4	G1/8	PPCG8-04G	8	G1/2
PPCG4-02G	4	G1/4	PPCG10-01G	10	G1/8
PPCG6-M5G	6	M5	PPCG10-02G	10	G1/4
PPCG6-01G	6	G1/8	PPCG10-03G	10	G3/8
PPCG6-02G	6	G1/4	PPCG10-04G	10	G1/2
PPCG6-03G	6	G3/8	PPCG12-01G	12	G1/8
PPCG6-04G	6	G1/2	PPCG12-02G	12	G1/4
PPCG8-01G	8	G1/8	PPCG12-03G	12	G3/8
PPCG8-02G	8	G1/4	PPCG12-04G	12	G1/2

Straight Female Connector

Code	øD	Thread	Code	øD	Thread
PPFG4-M5G	4	M5	PPFG8-03G	8	G3/8
PPFG4-01G	4	G1/8	PPFG8-04G	8	G1/2
PPFG4-02G	4	G1/4	PPFG10-01G	10	G1/8
PPFG6-M5G	6	M5	PPFG10-02G	10	G1/4
PPFG6-01G	6	G1/8	PPFG10-03G	10	G3/8
PPFG6-02G	6	G1/4	PPFG10-04G	10	G1/2
PPFG6-03G	6	G3/8	PPFG12-01G	12	G1/8
PPFG6-04G	6	G1/2	PPFG12-02G	12	G1/4
PPFG8-01G	8	G1/8	PPFG12-03G	12	G3/8
PPFG8-02G	8	G1/4	PPFG12-04G	12	G1/2

Straight Equal / Unequal Connector

Code	øD	Thread	Code	øD	Thread
PPU4G	4		PPU6-4G	6-4	
PPU6G	6		PPU8-6G	8-6	
PPU8G	8		PPU10-8G	10-8	
PPU10G	10		PPU12-10G	12-10	
PPU12G	12				

Bulk Head Connector

Code	øD	Thread	Code	øD	Thread
PPM4G	4		PPM10G	10	
PPM6G	6		PPM12G	12	
PPM8G	8				

Swivel Elbow Connector

Code	øD	Thread	Code	øD	Thread
PPLG4-M5G	4	M5	PPLG8-03G	8	G3/8
PPLG4-01G	4	G1/8	PPLG8-04G	8	G1/2
PPLG4-02G	4	G1/4	PPLG10-01G	10	G1/8
PPLG6-M5G	6	M5	PPLG10-02G	10	G1/4
PPLG6-01G	6	G1/8	PPLG10-03G	10	G3/8
PPLG6-02G	6	G1/4	PPLG10-04G	10	G1/2
PPLG6-03G	6	G3/8	PPLG12-01G	12	G1/8
PPLG6-04G	6	G1/2	PPLG12-02G	12	G1/4
PPLG8-01G	8	G1/8	PPLG12-03G	12	G3/8
PPLG8-02G	8	G1/4	PPLG12-04G	12	G1/2

Swivel Elbow Female Connector

Code	øD	Thread	Code	øD	Thread
PPLFG4-M5G	4	M5	PPLFG8-03G	8	G3/8
PPLFG4-01G	4	G1/8	PPLFG8-04G	8	G1/2
PPLFG4-02G	4	G1/4	PPLFG10-01G	10	G1/8
PPLFG6-M5G	6	M5	PPLFG10-02G	10	G1/4
PPLFG6-01G	6	G1/8	PPLFG10-03G	10	G3/8
PPLFG6-02G	6	G1/4	PPLFG10-04G	10	G1/2
PPLFG6-03G	6	G3/8	PPLFG12-01G	12	G1/8
PPLFG6-04G	6	G1/2	PPLFG12-02G	12	G1/4
PPLFG8-01G	8	G1/8	PPLFG12-03G	12	G3/8
PPLFG8-02G	8	G1/4	PPLFG12-04G	12	G1/2

Equal Elbow Connector

Code	øD	Thread	Code	øD	Thread
PPV4G	4		PPV10G	10	
PPV6G	6		PPV12G	12	
PPV8G	8				

Swivel Branch "T" Connector

Code	øD	Thread	Code	øD	Thread
PPBG4-M5G	4	M5	PPBG8-03G	8	G3/8
PPBG4-01G	4	G1/8	PPBG8-04G	8	G1/2
PPBG4-02G	4	G1/4	PPBG10-01G	10	G1/8
PPBG6-M5G	6	M5	PPBG10-02G	10	G1/4
PPBG6-01G	6	G1/8	PPBG10-03G	10	G3/8
PPBG6-02G	6	G1/4	PPBG10-04G	10	G1/2
PPBG6-03G	6	G3/8	PPBG12-01G	12	G1/8
PPBG6-04G	6	G1/2	PPBG12-02G	12	G1/4
PPBG8-01G	8	G1/8	PPBG12-03G	12	G3/8
PPBG8-02G	8	G1/4	PPBG12-04G	12	G1/2

Swivel Run "T" Connector

Code	øD	Thread	Code	øD	Thread
PPDG4-M5G	4	M5	PPDG8-03G	8	G3/8
PPDG4-01G	4	G1/8	PPDG8-04G	8	G1/2
PPDG4-02G	4	G1/4	PPDG10-01G	10	G1/8
PPDG6-M5G	6	M5	PPDG10-02G	10	G1/4
PPDG6-01G	6	G1/8	PPDG10-03G	10	G3/8
PPDG6-02G	6	G1/4	PPDG10-04G	10	G1/2
PPDG6-03G	6	G3/8	PPDG12-01G	12	G1/8
PPDG6-04G	6	G1/2	PPDG12-02G	12	G1/4
PPDG8-01G	8	G1/8	PPDG12-03G	12	G3/8
PPDG8-02G	8	G1/4	PPDG12-04G	12	G1/2

Equal / Unequal "T" Connector

Code	øD	Thread	Code	øD	Thread
PPE4G	4		PPE6-4G	6-4	
PPE6G	6		PPE8-6G	8-6	
PPE8G	8		PPE10-8G	10-8	
PPE10G	10		PPE12-10G	12-10	
PPE12G	12				

Swivel "Y" Male Connector

Code	øD	Thread	Code	øD	Thread
PPXG4-M5G	4	M5	PPXG8-03G	8	G3/8
PPXG4-01G	4	G1/8	PPXG8-04G	8	G1/2
PPXG4-02G	4	G1/4	PPXG10-01G	10	G1/8
PPXG6-M5G	6	M5	PPXG10-02G	10	G1/4
PPXG6-01G	6	G1/8	PPXG10-03G	10	G3/8
PPXG6-02G	6	G1/4	PPXG10-04G	10	G1/2
PPXG6-03G	6	G3/8	PPXG12-01G	12	G1/8
PPXG6-04G	6	G1/2	PPXG12-02G	12	G1/4
PPXG8-01G	8	G1/8	PPXG12-03G	12	G3/8
PPXG8-02G	8	G1/4	PPXG12-04G	12	G1/2

Equal / Unequal "Y" Connector

Code	øD	Thread	Code	øD	Thread
PPY4G	4		PPY6-4G	6-4	
PPY6G	6		PPY8-6G	8-6	
PPY8G	8		PPY10-8G	10-8	
PPY10G	10		PPY12-10G	12-10	
PPY12G	12				

Equal Cross Connector

Code	øD	Thread	Code	øD	Thread
PPZ4G	4		PPZ10G	10	
PPZ6G	6		PPZ12G	12	
PPZ8G	8				

Swivel Threaded 5 Port Distributor

Code	øD	Thread	Code	øD	Thread
PPKDG4-02G	4	G1/4"	PPKDG8-01G	8	G1/8"
PPKDG6-01G	6	G1/8"	PPKDG8-02G	8	G1/4"
PPKDG6-02G	6	G1/4"	PPKDG8-03G	8	G3/8"
PPKDG6-03G	6	G3/8"			

5 Port Distributor

Code	øD	Thread	Code	øD	Thread
PPK8-6G	8-6		PPK6-4G	6-4	
PPK10-8G	10-8		PPK8-4G	8-4	
PPK10-6G	10-6				

Tube Plug

Code	øD	Thread	Code	øD	Thread
PPP4G	4		PPP10G	10	
PPP6G	6		PPP12G	12	
PPP8G	8				

Swivel Single Banjo Elbow Connector

Code	øD	Thread	Code	øD	Thread
PPHG4-01G	4	G1/8	PPHG8-04G	8	G1/2
PPHG4-02G	4	G1/4	PPHG10-01G	10	G1/8
PPHG6-01G	6	G1/8	PPHG10-02G	10	G1/4
PPHG6-02G	6	G1/4	PPHG10-03G	10	G3/8
PPHG6-03G	6	G3/8	PPHG10-04G	10	G1/2
PPHG6-04G	6	G1/2	PPHG12-01G	12	G1/8
PPHG8-01G	8	G1/8	PPHG12-02G	12	G1/4
PPHG8-02G	8	G1/4	PPHG12-03G	12	G3/8
PPHG8-03G	8	G3/8	PPHG12-04G	12	G1/2

Swivel Double Banjo Elbow Connector

Code	øD	Thread	Code	øD	Thread
PPHTG4-01G(2)	4	G1/8	PPHTG8-04G(2)	8	G1/2
PPHTG6-01G(2)	6	G1/8	PPHTG10-01G(2)	10	G1/8
PPHTG6-02G(2)	6	G1/4	PPHTG10-02G(2)	10	G1/4
PPHTG6-03G(2)	6	G3/8	PPHTG10-03G(2)	10	G3/8
PPHTG6-04G(2)	6	G1/2	PPHTG10-04G(2)	10	G1/2
PPHTG8-01G(2)	8	G1/8	PPHTG12-01G(2)	12	G1/8
PPHTG8-02G(2)	8	G1/4	PPHTG12-02G(2)	12	G1/4
PPHTG8-03G(2)	8	G3/8	PPHTG12-03G(2)	12	G3/8

Push In Reducer

Code	oD	Thread	Code	oD	Thread
PPGJ6-4G	6-4		PPGJ12-6G	12-6	
PPGJ8-4G	8-4		PPGJ12-8G	12-8	
PPGJ8-6G	8-6		PPGJ12-10G	12-10	
PPGJ10-6G	10-6				
PPGJ10-8G	10-8				

Flow Control Valves

Flow Control Valve (Meter Out)

Code	øD	Thread	Code	øD	Thread
PSCG4-M5G	4	M5	PSCG8-03G	8	G3/8
PSCG4-01G	4	G1/8	PSCG8-04G	8	G1/2
PSCG4-02G	4	G1/4	PSCG10-01G	10	G1/8
PSCG6-M5G	6	M5	PSCG10-02G	10	G1/4
PSCG6-01G	6	G1/8	PSCG10-03G	10	G3/8
PSCG6-02G	6	G1/4	PSCG10-04G	10	G1/2
PSCG6-03G	6	G3/8	PSCG12-02G	12	G1/4
PSCG6-04G	6	G1/2	PSCG12-03G	12	G3/8
PSCG8-01G	8	G1/8	PSCG12-04G	12	G1/2
PSCG8-02G	8	G1/4			

Flow Control Valve (Meter IN)

Code	øD	Thread	Code	øD	Thread
PSCG4-M5G(B)	4	M5	PSCG8-03G(B)	8	G3/8
PSCG4-01G(B)	4	G1/8	PSCG8-04G(B)	8	G1/2
PSCG4-02G(B)	4	G1/4	PSCG10-01G(B)	10	G1/8
PSCG6-M5G(B)	6	M5	PSCG10-02G(B)	10	G1/4
PSCG6-01G(B)	6	G1/8	PSCG10-03G(B)	10	G3/8
PSCG6-02G(B)	6	G1/4	PSCG10-04G(B)	10	G1/2
PSCG6-03G(B)	6	G3/8	PSCG12-02G(B)	12	G1/4
PSCG6-04G(B)	6	G1/2	PSCG12-03G(B)	12	G3/8
PSCG8-01G(B)	8	G1/8	PSCG12-04G(B)	12	G1/2
PSCG8-02G(B)	8	G1/4			

Silencers

Brass Silencers

Code		Thread			
PSLM5		M5			
PSL01		G1/8			
PSL02		G1/4			
PSL03		G3/8			
PSL04		G1/2			
PSL06		G3/4			

Exhaust Throttle Silencers

Code		Thread			
PESL01		G1/8			
PESL02		G1/4			
PESL03		G3/8			
PESL04		G1/2			

Brass Mini Silencers

Code		Thread			
PSLMM5		M5			
PSLM01		G1/8			
PSLM02		G1/4			
PSLM03		G3/8			
PSLM04		G1/2			
PSLM06		G3/4			

TECHNICAL SPECIFICATIONS

Tube Size	4x2.5	6x4	8x5.5	10x6.5	12x8
O.D	4mm	6.0mm	8mm	10.0mm	12.0mm
I.D	2.5mm	4.0mm	5.5mm	6.5mm	8.0mm
Shore Hardness	98A ± 2	98A ± 2	98A ± 2	98A ± 2	98A ± 2
Max. Working Pressure (at 23°C)	13bar	11bar	12bar	11bar	10bar
Min. Burst Pressure (at 23°C)	39bar	33bar	36bar	33bar	30bar
Min. Bend Radius	10mm	20mm	30mm	35mm	40mm

O.D	ID	Blue	Black	Neutral	Red	Yellow	Green
4	2.5	TPU0425	TPU0425B	TPU0425N	TPU0425R	TPU0425Y	TPU0425G
6	4	TPU0640	TPU0640B	TPU0640N	TPU0640R	TPU0640Y	TPU0640G
8	5.5	TPU0855	TPU0855B	TPU0855N	TPU0855R	TPU0855Y	TPU0855G
10	6.5	TPU1065	TPU1065B	TPU1065N	TPU1065R	TPU1065Y	TPU1065G
12	8	TPU1280	TPU1280B	TPU1280N	TPU1280R	TPU1280Y	TPU1280G
14	10	TPU1410	TPU1410B	TPU1410N	TPU1410R	TPU1410Y	TPU1410G
16	12	TPU1612	TPU1612B	TPU1612N	TPU1612R	TPU1612Y	TPU1612G

Recoil Tubing

TPUS — **Tube Size** — **Tube Colour** — **Working Length**

Tube Size:
- 0425
- 0640
- 0855
- 1065
- 1280
- 1410
- 1612

Tube Colour:
- – = Blue
- B = Black
- N = Neutral
- R = Red
- Y = Yellow
- G = Green

Working Length:
- 2 = 2 meter
- 4 = 4 meter
- 6 = 6 meter
- 8 = 8 meter
- 10 = 10 meter
- 12 = 12 meter
- 15 = 15 meter

O.D	4	6	8	10	12	14	16
I.D	2.5	4	5.5	6.5	8	10	12

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