

Section B – Control valves

Sezione B – Valvole di controllo

A complete range of balanced spool valves in copper free aluminum alloy or AISI316L with air or mechanical acting for use with air or compatible gas

- Copper free aluminum alloy or Stainless steel 316L construction
- Standard Sizes 1/4", 3/8", 1/2", 3/4", 1"
- Three (3/2) or five (5/2) ways
- Standard seals in NBR/FKM/HNBR
- High flow features, DN8mm (1/4"), 12mm (3/8", 1/2", 3/4"), 16mm (3/4"), 21(1")
- Pneumatic acting
- Manual acting
- Choice of standard or special mechanical acting
- Max working pressure to 10bar
- Full material traceability
- Certifications to EN10204 3,1
- 100% Italian production
- 100% Tested
- ATEX, SIL3 and EAC certified range



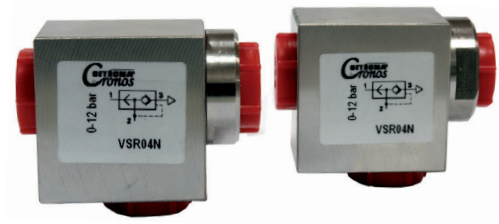
Una gamma di valvole di controllo a cassetto bilanciato in alluminio esente rame o AISI316L a comando pneumatico o meccanico per uso con aria o gas compatibili

- Costruzione in alluminio esente rame o AISI316L
- Connessioni std da 1/4", 3/8" e 1/2"
- Versioni a tre (3/2) o cinque (5/2) vie
- Tenute std in NBR/FKM/HNBR
- Elevate portate, passaggio 8mm (1/4"), 12mm (3/8", 1/2", 3/4"), 16mm (3/4") e 21mm (1")
- Azionamento pneumatico
- Azionamento manuale
- Varietà di azionamenti meccanici standard o speciali
- Pressioni di utilizzo 10BAR
- Completa rintracciabilità di tutti i componenti
- Certificati EN10204 3,1, TR CU, SIL3
- Produzione 100% italiana
- Collaudo al 100%
- Certificati ATEX, SIL3 ed EAC



A complete range of uni or bi directional flow regulators and quick exhaust valves in copper free aluminum alloy or AISI316L for use with air or gas

- Copper free aluminum alloy or Stainless steel 316L construction
- Standard Sizes 1/4", 3/8", 1/2", 3/4", 1"
- Standard seals in NBR, FKM, EPDM, FVMQ, HNBR, PU, Silicone
- Max working pressure to 12bar
- Full material traceability
- Certifications to EN10204 3,1, ATEX, EAC
- Certification to SIL3 (only for quick exhaust)
- 100% Italian production
- 100% Tested



Quick exhaust valves

Una gamma di regolatori di flusso uni e bi direzionali e valvole di scarico rapido in alluminio esente rame o AISI316 per uso con aria o gas

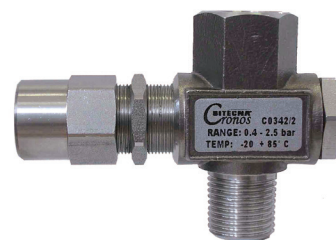
- Costruzione in alluminio esente rame o AISI316L
- Connessioni std da 1/4", 3/8", 1/2", 3/4" e 1"
- Tenute std in NBR, FKM, PU, Silicone
- Elevate portate
- Pressioni di utilizzo 12BAR
- Completa rintracciabilità di tutti i componenti
- Certificati EN10204 3,1, ATEX, EAC
- Scarichi rapidi certificati SIL3
- Produzione 100% italiana
- Collaudo al 100%



Uni directional flow regulator

Overload protectors in AISI316L for use with air or gas or liquid

- Stainless steel 316L complete construction
- Standard Sizes 1/2" male x female
- Standard seals in NBR, FKM, EPDM
- Max working pressure to 400bar
- Full material traceability
- Certifications to EN10204 3,1. ATEX, EAC
- 100% Italian production
- 100% Tested



Overload protectors

Limitatori di pressione in AISI316 per uso con aria o gas o liquidi

- Costruzione completamente in AISI316L
- Connessioni std da 1/2" maschio femmina
- Tenute std in NBR, FKM, EPDM
- Affidabilità di funzionamento
- Pressioni di utilizzo da 2 a 400BAR
- Completa rintracciabilità di tutti i componenti
- Certificati EN10204 3,1, ATEX, EAC
- Produzione 100% italiana
- Collaudo al 100%

A complete range of single or double lock-up valves in copper free aluminum alloy or AISI316L for use with air or compatible gas

- Copper free aluminum alloy or Stainless steel 316L construction
- Standard Size 1/4"NPT, special Size 1/2"NPT
- Single or double lock-up valve
- Std seals and diaphragms in NBR, EPDM, FKM, FVQM, HNBR
- Max working pressure to 10BAR - 12BAR
- Sensibility 0.1 BAR
- Temperature range from -60°C to +90°C (for 1/2" from -55°C)
- Full material traceability
- Certifications to EN10204 3, ATEX, EAC
- 100% Italian production, 100% Tested



Una gamma di valvole di lock-up singole o doppie in alluminio esente rame o in AISI316L per uso con aria o gas

- Costruzione in alluminio esente rame o AISI316L
- Connessioni std da 1/4", speciali: 1/2"NPT
- Valvola di lock-up singola o doppia
- Tenute e diaframmi std in NBR, EPDM, FKM, FVMQ, HNBR
- Pressione di utilizzo massima 10BAR - 12BAR
- Sensibilità 0.1 BAR
- Temperatura di utilizzo da -60°C a +90°C (1/2" da -55°C)
- Completa rintracciabilità di tutti i materiali
- Certificati EN10204 3,1, ATEX e EAC
- Produzione 100% italiana, 100% collaudata



Back pressure regulators and 2 & 3 ways Switch valves in AISI316L

- Stainless steel 316L complete construction
- Standard Sizes 1/4"
- Std seals and diaphragms in NBR, EPDM, FKM, FVQM, HNBR
- Temperature range from -55°C to +90°C
- Full material traceability
- Certifications to EN10204 3, ATEX, EAC
- Certification to SIL3 (only for back pressure)
- 100% Italian production, 100% Tested



Regolatori di contropressione e valvole di commutazione in AISI316L

- Costruzione completamente in AISI316L
- Connessioni std da 1/4"
- Tenute e diaframmi std in NBR, EPDM, FKM, FVMQ, HNBR
- Temperatura di utilizzo da -55°C a +90°C
- Completa rintracciabilità di tutti i componenti
- Certificati EN10204 3,1, ATEX, EAC
- Regolatori di contropressione erificati SIL3
- Produzione 100% italiana, 100% collaudata



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Informazioni per l'ordine serie DP



- p.108 **Aluminum alloy Air & Mechanical acting directional control Spool Valves**
Valvole di controllo a cassetto ad azionamento pneumo-meccanico in lega di alluminio

1/4", 3/8", 1/2", 3/4", 1"NPT
3/2, 5/2

NEW
PRODUCT



- p.117 **Stainless Steel 316L Air & Mechanical acting directional control Spool Valves**
Valvole di controllo a cassetto ad azionamento pneumo-meccanico in AISI316L

1/4", 3/8", 1/2", 3/4", 1"NPT
3/2, 5/2,

NEW
PRODUCT



- p.126 **Aluminum alloy pilot actuated poppet valves**
Valvole pneumatiche ad otturatore in lega di alluminio

3/4", 1"NPT
3/2

NEW
PRODUCT



- p.128 **Stainless Steel 316L pilot actuated poppet valves**
Valvole pneumatiche ad otturatore in AISI316L

3/4", 1"NPT
3/2

NEW
PRODUCT



p.127 Ordering information LK serie

Informazioni per l'ordine serie LK



p.128 Aluminum alloy lock-up valves

Valvole di lock-up in lega di alluminio

Single or Double Lock-Up / Lock up singolo o doppio
1/4", 1/2"NPT



p.133 Stainless Steel 316L lock-up valves

Valvole di lock-up in AISI316L

Single or Double Lock-Up / Lock up singolo o doppio
1/4", 1/2"NPT



p.138 Aluminum Alloy Quick exhaust valves

Valvole di scarico rapido in lega di alluminio

1/8", 1/4", 3/8", 1/2", 3/4", 1"NPT



p.140 Stainless steel 316L Quick exhaust valves

Valvole di scarico rapido in AISI316L

1/8", 1/4", 3/8", 1/2", 3/4", 1"NPT



p.142 Aluminum alloy Flow regulators

Regolatori di flusso in alluminio esente rame

1/4", 3/8", 1/2", 3/4", 1"NPT
Uni-Bidirectional - Uni-Bidirezionali



p.144 Stainless steel 316L Flow regulators

Regolatori di flusso in AISI316L

1/4", 3/8", 1/2", 3/4", 1"NPT
Uni-Bidirectional - Uni-Bidirezionali



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Informazioni per l'ordine

Back pressure regulators

Regolatori di back pressure



p.147 Stainless steel 316L back pressure

Valvole di back pressure AISI316L

1/4"NPT



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Informazioni per l'ordine

Pneumatic Relays

Relays Pneumatico



p.150 Stainless steel 316L 2&3 way pneumatic relays

Relays pneumatico a due e tre vie in AISI316L

1/4"NPT



p.152 Stainless steel 316L Overload protector

Limitatore di pressione tarabile in AISI316L



Ordering information - Spool valves

Come ordinare - valvole a cassetto

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TYPE

- DP = Operator: Air pilot / Return: Spring
- DP.....-IR = Operator: Air pilot / Return: Spring + internal relief
- DPP = Operator: Air pilot // Return: Air Pilot
- DP.....-M1 = Operator: Knob push-pull / Return: Spring
- DP.....-M2* = Operator: Knob push-pull / Return: Knob push-pull
- DP.....RM = Operator: Air pilot // Return: Spring (manual reset)
- DP.....RM1 = Operator: Air pilot / & manual / Return: Spring (manual reset)
- DP.....W1 = Operator: Roller Lever / Return: Spring (only 1/4"NPT)

DP 32 AL 04N FK -M1

WAYS

- 32= 3 ways, 2 positions
- 52= 5 ways, 2 positions

MATERIAL

- SS= 316-316L
Stainless steel
- AL= Copper free
aluminum alloy
with epoxy paint

SIZE

- 04N= 1/4"NPT (DN8mm)
- 06N= 3/8"NPT (DN12mm)
- 08N= 1/2"NPT (DN12mm)
- 12N= 3/4"NPT (DN12mm)
- 14N= 3/4"NPT (DN16mm)**
- 16N= 1"NPT** (DN21mm)

DIAPHRAGM & SEALS MATERIAL

- FK= FKM (WT-25° +90°C)
- NB= NBR (WT-20° +80°C)
- HN= HNBR (WT -55°+90°C)

CODE EXAMPLES

DP 32 AL 04N FK -M1

1/4"NPT, aluminum alloy with epoxy paint, 3 ways 2 positions, knob operated with spring return spool valve, with FKM seals
Valvola a cassetto da 1/4"NPT in alluminio esente rame, 3 vie 2 posizioni, azionamento manuale, ritorno a molla, tenute in FKM

DPP 52 SS 08N HN

1/2"NPT, SS316, 5 ways 2 positions, pilot operated with pilot return spool valve, with HNBR seals

Valvola a cassetto da 1/2"NPT in AISI316, 5 vie 2 posizioni, doppio azionamento pneumatico, tenute in HNBR



* Lockable version available

** Available only Air Pilot/Spring & Air Pilot/Air Pilot versions - No HNBR seals available

01-DP/24A

Copper free aluminum alloy 1/4", 3/8", 1/2", 3/4" NPT directional control spool valves - DP serie

Valvole di controllo a cassetto in alluminio esente rame da 1/4", 3/8", 1/2", 3/4" NPT - serie DP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 or 5/2 Functions
- 1/4" (DN8mm) & 3/8", 1/2", 3/4" (DN12mm) size
- Compact sizes
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for dual pressure application
- Suitable for control and instrument gases
- High flow rate for the compact size of the valve
- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X
-  &  approved II 2D Ex h IIIC T85°C/T100°C Db X
- SIL 3 - IEC 61508 (pilot operated models) 



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzioni 3/2 e 5/2
- Taglie da 1/4" (DN 8mm) e 3/8", 1/2", 3/4" (DN12mm)
- Dimensioni compatte
- Adatte per flussi multidirezionali
- Dotate di fori passanti sul corpo

- Idonee per gas di controllo e strumentale
- Alte portate per le dimensioni compatte della valvola
- Adatte per applicazioni con doppia pressione
- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X
-  II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 
- SIL 3 - IEC61508 
(modelli con azionamento pneumatico)

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	1/4"-3/8"-1/2"-3/4" NPT
Working Pressure Pressione di lavoro	-0.9 -10 bar
Minimum pilot pressure Pressione massima di pilotaggio	2.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -55°C + 90°C (HNBR)
Orefice/Orifizio	dn 8 mm (1/4") - dn 12 mm (3/8", 1/2", 3/4")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

TYPES

- Operator: Air pilot / Return: Spring
- Operator: Air pilot / Return: Spring + internal relief
- Operator: Air pilot / Return: Pilot
- Operator: Knob push-pull/ Return: Spring
- Operator: Knob push-pull/ Return: Knob push-pull
- Operator: Knob push-pull/ Return: Pneumatic
- Operator: Air pilot / Return: Spring (manual reset)
- Operator: Pilot & manual / Return: Spring (manual res.)
- Operator: Roller Lever / Return: Spring (only 1/4")

Modelli

- Azionamento: Pneumatico / Ritorno: Molla
- Azion.: Pneum. / Ritorno: Molla + polmonaz. interna
- Azionamento: Pneumatico / Ritorno: Pneumatico
- Azionamento: Pulsante / Ritorno: Molla
- Azionamento: Pulsante / Ritorno: Pulsante
- Azionamento: Pulsante / Ritorno: Pneumatico
- Azionamento: Pneumatico / Ritorno: Molla (manuale)
- Azionamento: Pneum.&manuale / Ritorno: Molla (manuale)
- Azionamento: Leva Rotella / Ritorno: Molla (solo 1/4")

BUILDING MATERIALS	Materiali costruttivi
Body and end adapters in copper free aluminum alloy with epoxy painting	Corpo e adattatori terminali in alluminio esente rame con verniciatura epossidica
Spool in copper free aluminum alloy	Spola in alluminio esente rame
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

Operator: Air pilot / Return: Spring (with or without internal relief)

Azionamento: Pneumatico / Ritorno: molla (con o senza polmonazione interna)

1/4" NPT Overall dimension & pneumatic diaphragm

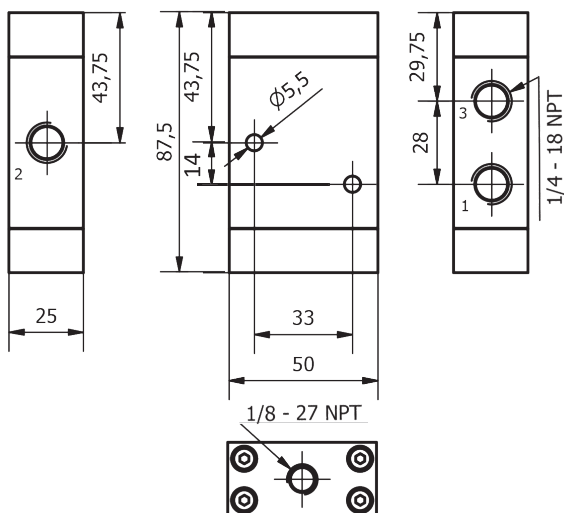
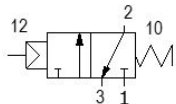
Dimensioni di ingombro taglia 1/4"NPT

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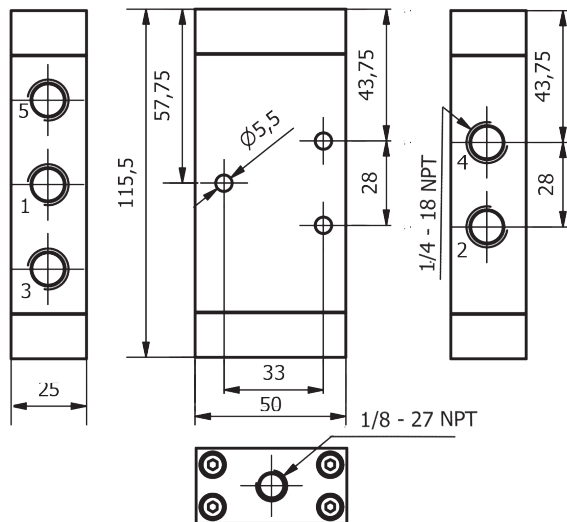
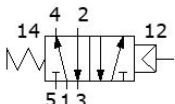
DP32AL04NNB

DP32AL04NNB-IR

3/2



5/2



1/2" NPT Overall dimension & pneumatic diaphragm

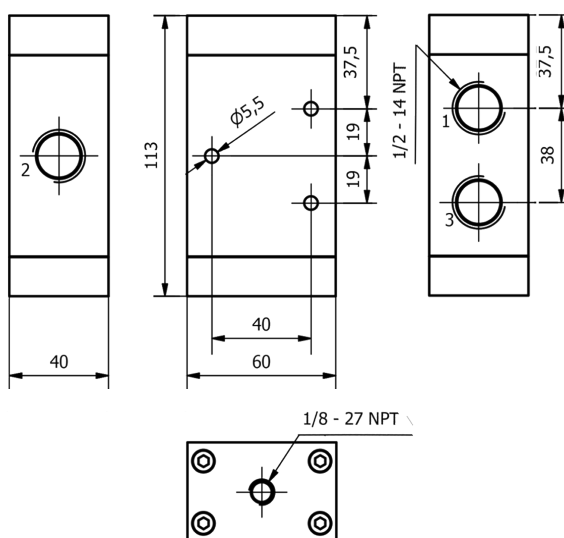
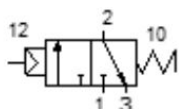
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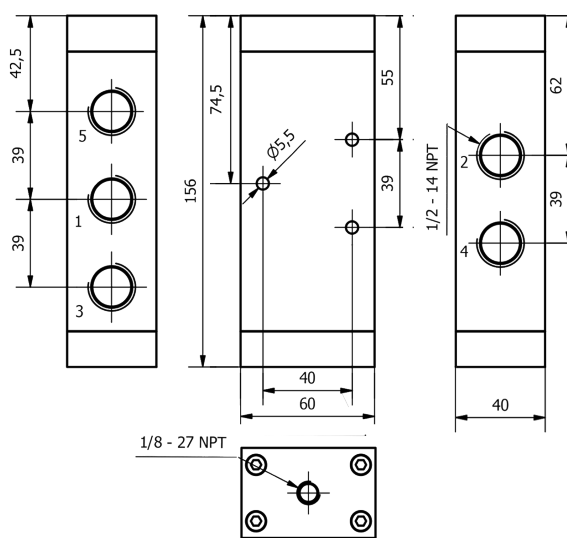
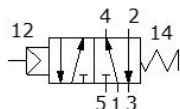
DP32AL08NNB

DP32AL08NNB-IR

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Operator: Air pilot / Return: Pilot

Azionamento: Pneumatico / Ritorno: pneumatico

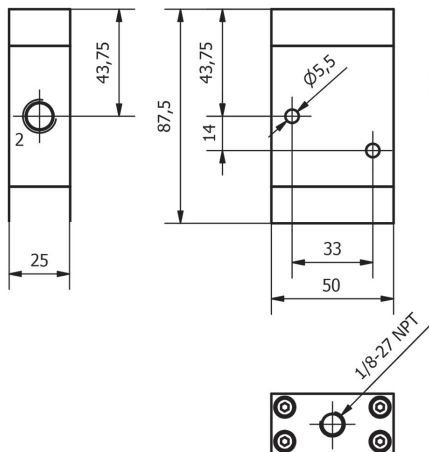
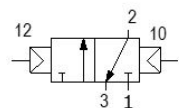
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

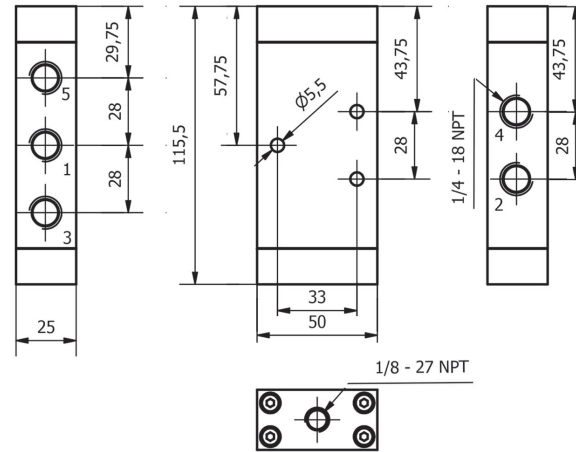
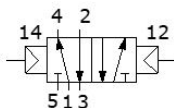
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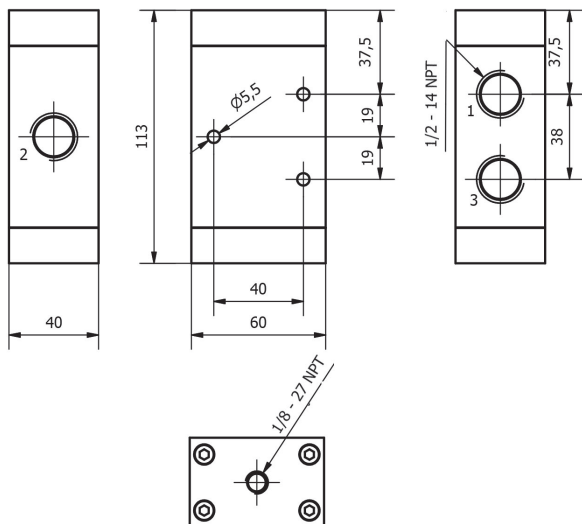
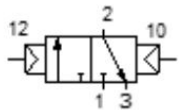
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

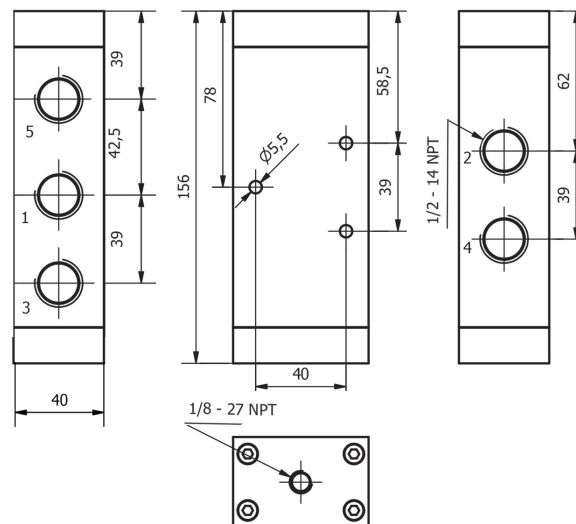
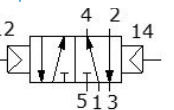
Example code:

DPP32AL08NNB

3/2



5/2



Operator: Knob push-pull / Return: Spring

Azionamento: Pulsante palmo / Ritorno: molla

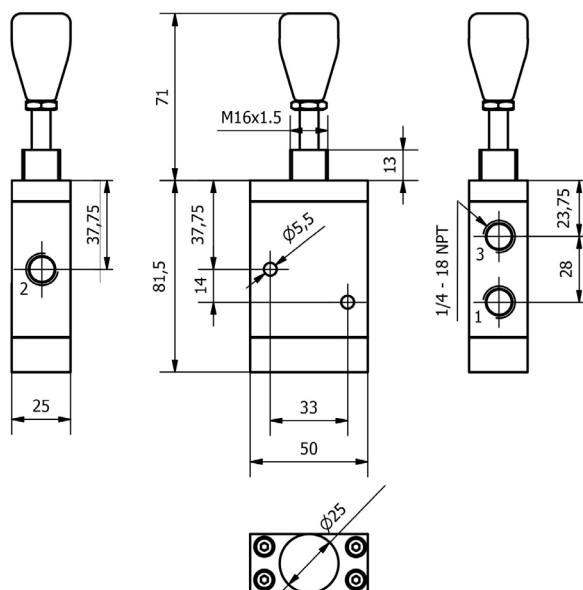
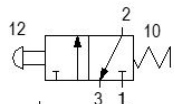
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

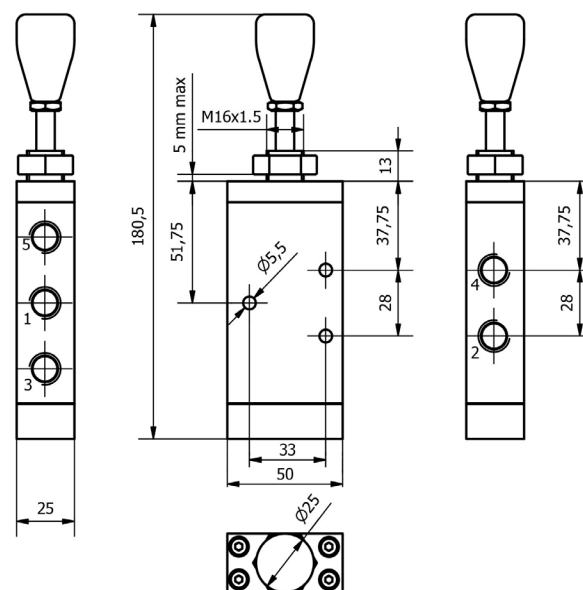
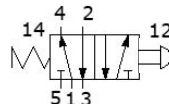
Example code:

DP32AL04NNB-M1

3/2



5/2



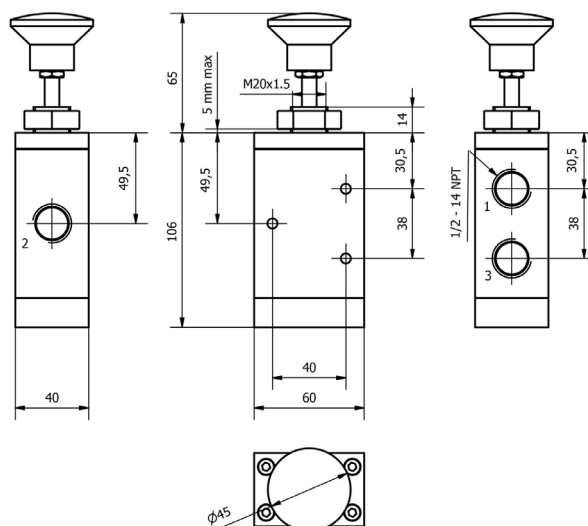
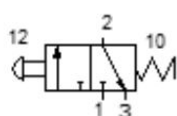
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

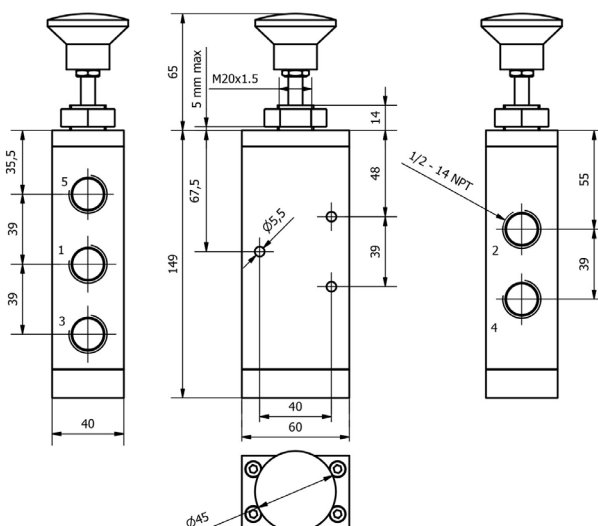
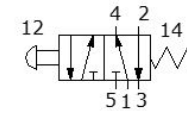
Example code:

DP32AL08NNB-M1

3/2



5/2



Operator: Knob push-pull/ Return: Knob push-pull

Azionamento: Pulsante palmo / Ritorno: pulsante palmo

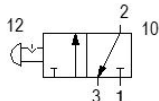
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

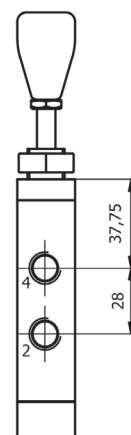
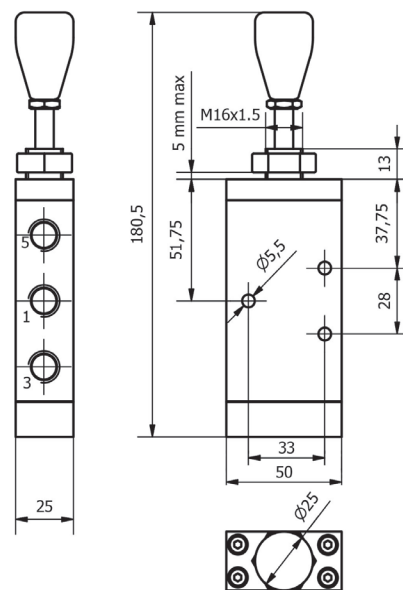
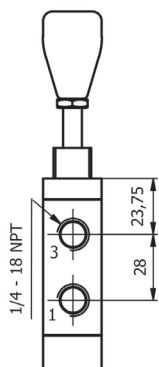
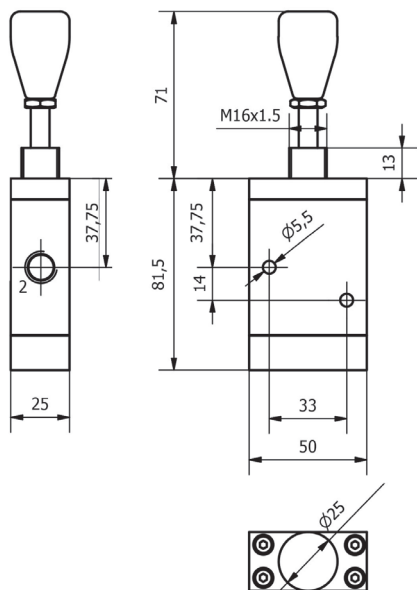
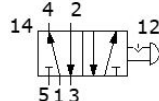
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DP32ALNB04N-M2

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5/2



NB: Lockable version available

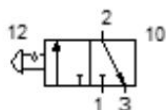
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

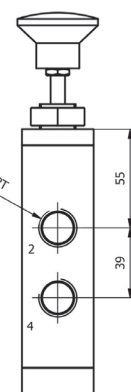
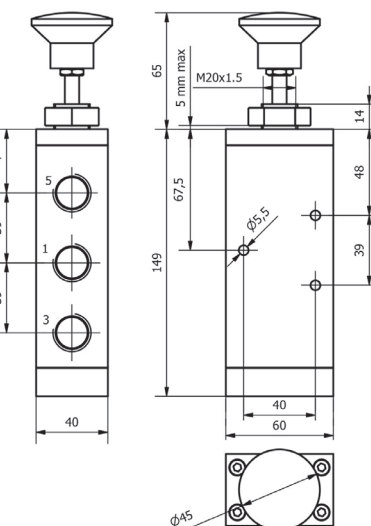
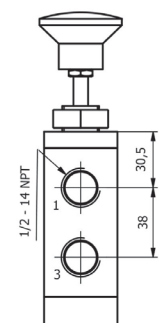
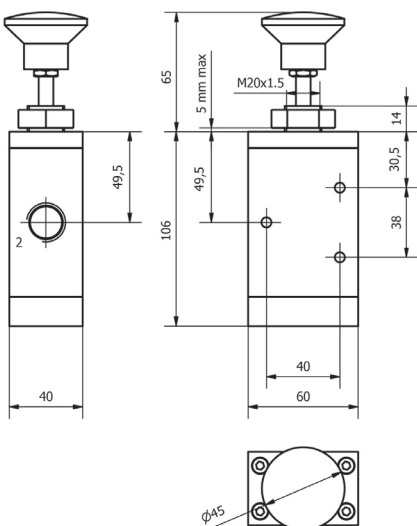
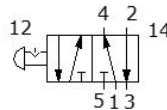
Example code:

DP32AL08NNB-M2

3/2



5/2

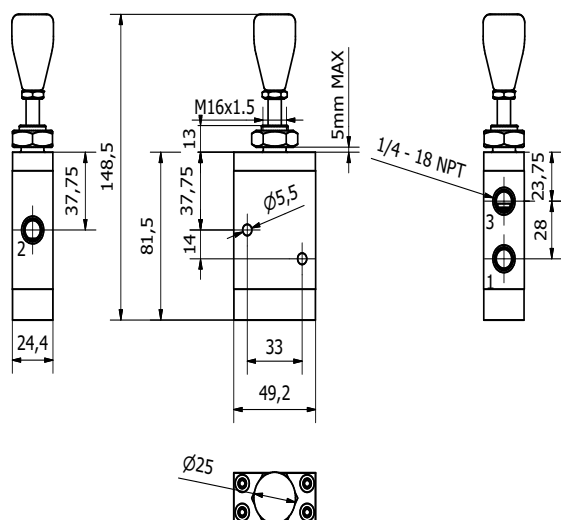


BT-DPAL/C24E

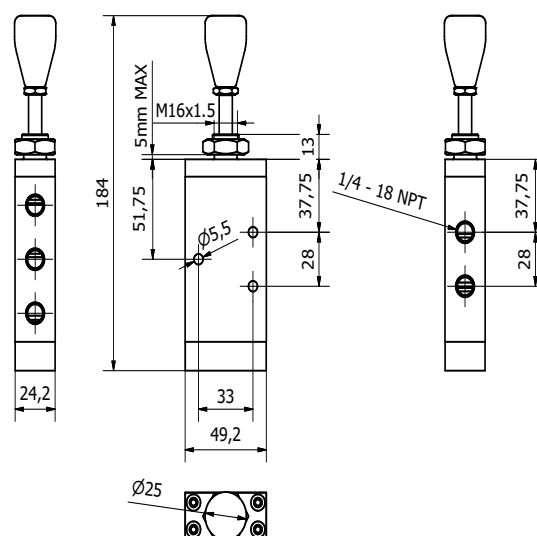
Azionamento: Pulsante palmo / Ritorno: pneumatico

Dimensioni di ingombro taglia 1/4" NPT

DP32SS04NNB-M3



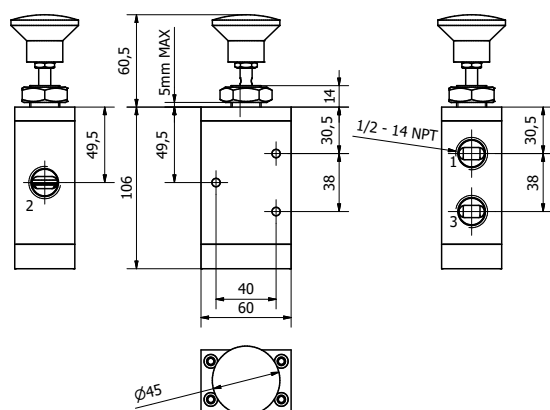
Technical drawing of a mechanical part showing a cross-section with dimensions 14, 4, 2, 12, 5, 1, 3 and a 1/8-27 NPT thread.



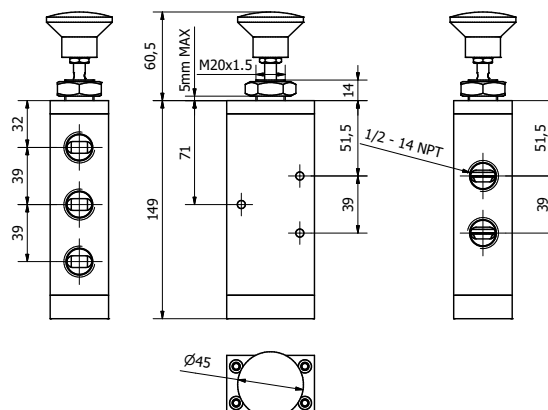
Dimensioni di ingombro taglia 1/2"NPT

DP32SS08NNB-M3

The schematic shows a rectangular body representing the valve. On the left, there is a port labeled '12' with an arrow pointing into the body. On the right, there is a port labeled '10' with an arrow pointing out of the body. Inside the body, there are two vertical lines labeled '1' and '3'. A diagonal line labeled '2' connects the top of the body to the bottom of the body, passing through the center. Below the body, there is a label '1/8 - 27 NPT' pointing to a circular flange with six mounting holes.



A schematic diagram of a 3-way valve. The valve body is represented by a rectangle. On the left side, there is a port labeled '12' with a curved arrow indicating flow out. On the right side, there are two ports: the top one is labeled '14' with a valve symbol (a circle with a cross) indicating it is closed, and the bottom one is labeled '513' with an arrow indicating flow out. Inside the rectangle, there are two vertical arrows pointing upwards, labeled '4' and '2' at their tips. Below the rectangle, the number '3' is written.



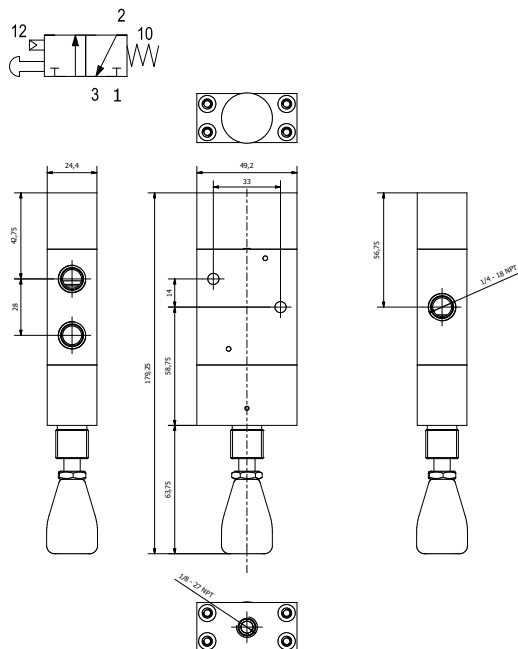
Operator: Air pilot / Return: Spring (manual reset)

Azionamento: Pneumatico / Ritorno: molla (riarmo manuale)

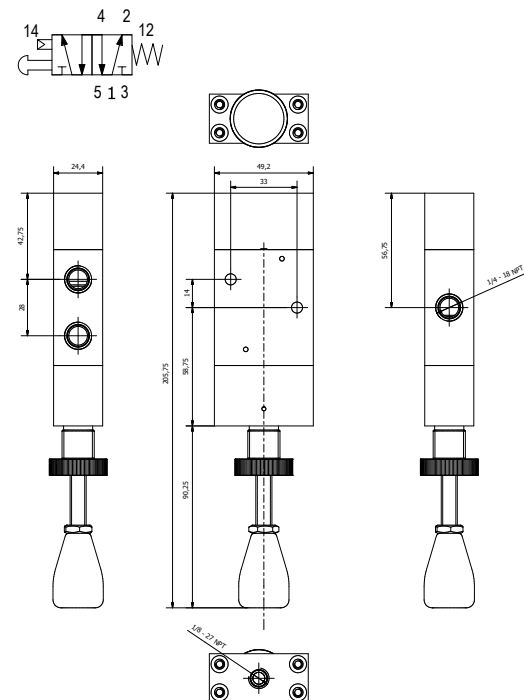
Overall dimension

Dimensioni di ingombro

3/2



5/2



Example code:

DP32SS04NNB-RM

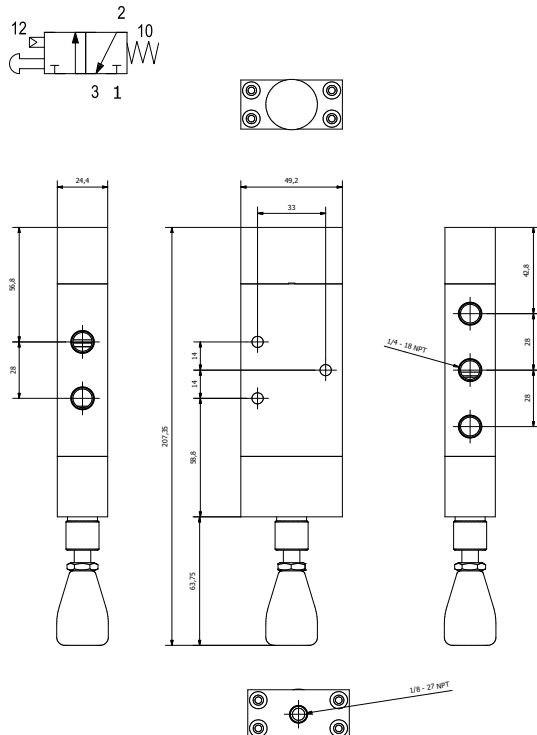
Operator: Air pilot & manual / Return: Spring (manual reset)

Azionamento: Pneumatico e manuale/ Ritorno: molla (riarmo manuale)

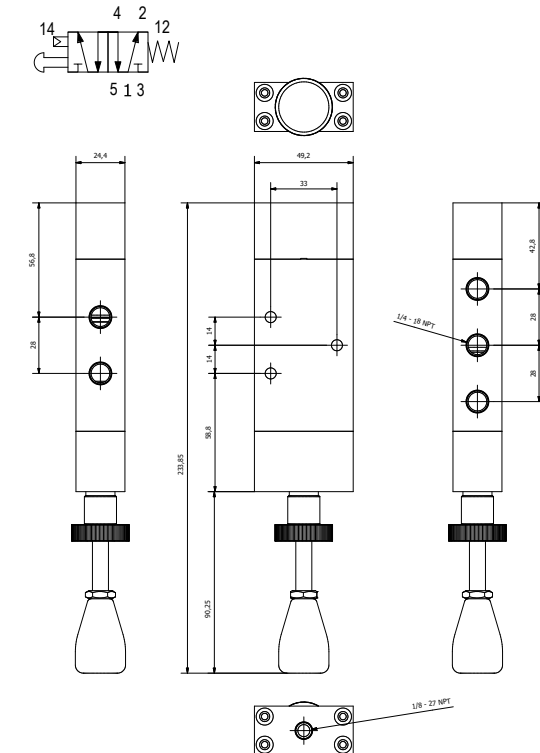
Overall dimension

Dimensioni di ingombro

3/2



5/2



Example code:

DP32SS04NNB-RM1

Operator: Roller lever / Return: Spring

Azionamento: Leva rotella / Ritorno: molla

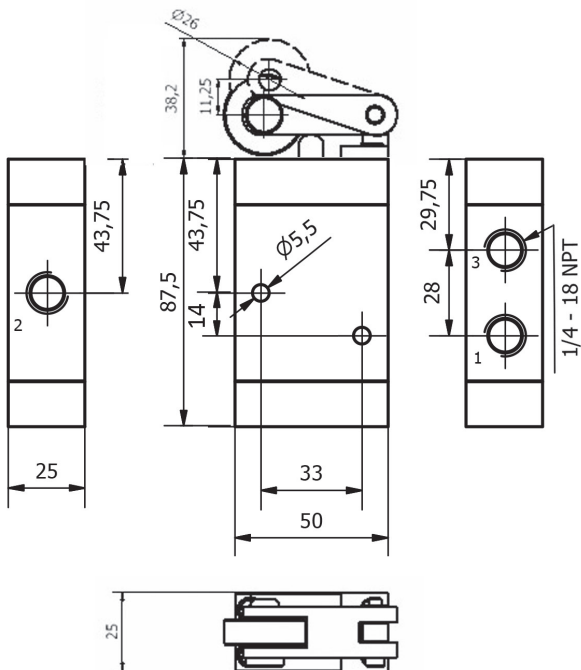
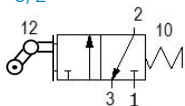
Overall dimension & pneumatic diaphragm

Dimensioni di ingombro

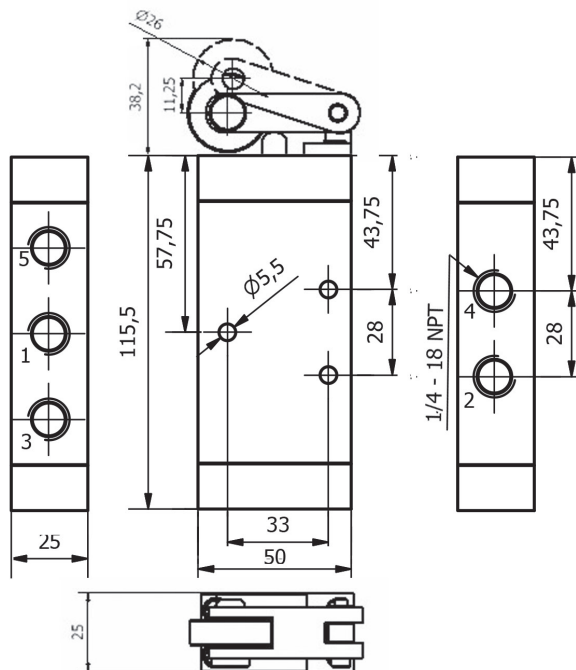
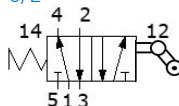
Example code:

DP32AL04NNB-W1

3/2



5/2



Copper free aluminum alloy 3/4", 1"NPT directional control spool valves - DP serie

Valvole di controllo a cassetto in alluminio esente rame da 3/4", 1"NPT - serie DP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 or 5/2 Functions
- 3/4" & 1" (DN21mm) size
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for dual pressure application
- Suitable for control and instrument gases
- High flow rate for the compact size of the valve
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X*
-  &  approved*
- SIL 3 - IEC 61508 (pilot operated models)  *



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzioni 3/2 e 5/2
- Taglie da 3/4" e 1" (DN21mm)
- Adatte per flussi multidirezionali
- Dotate di fori passanti sul corpo
- Idonee per gas di controllo e strumentale

- Alte portate per le dimensioni compatte della valvola
- Adatte per applicazioni con doppia pressione
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X*
-  ed  *
- SIL 3 - IEC61508  *
(modelli con azionamento pneumatico)

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/4", 1"NPT
Working Pressure Pressione di lavoro	12 bar
Minimum pilot pressure Pressione minima di pilotaggio	2.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -55°C + 90°C (HNBR)
Orefice/Orifizio	dn 16 mm (3/4") dn 21 mm (1")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

TYPES

- Operator: Air pilot / Return: Spring
- Operator: Air pilot / Return: Pilot

Modelli

- Azionamento: Pneumatico / Ritorno: Molla
- Azionamento: Pneumatico / Ritorno: Pneumatico

BUILDING MATERIALS	Materiali costruttivi
Body and end adapters in copper free aluminum alloy with epoxy painting	Corpo e adattatori terminali in alluminio esente rame con verniciatura epossidica
Spool in copper free aluminum alloy	Spola in alluminio esente rame
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

* Pending

Overall dimension & pneumatic diaphragm

Dimensioni di ingombro e schema pneumatico

Operator: Air pilot / Return: Spring

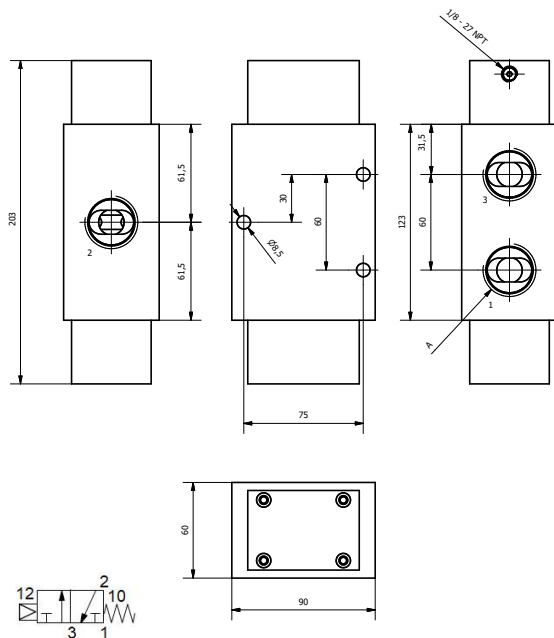
Azionamento: Pneumatico / Ritorno: molla

Example code:

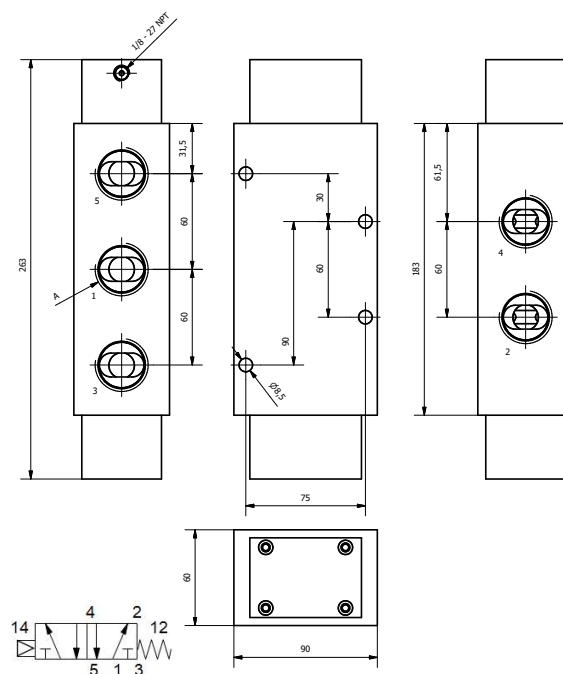
A= 3/4" : DP32AL14NNB

A= 1" : DP32AL16NNB

3/2



5/2



Operator: Air pilot / Return: Pilot

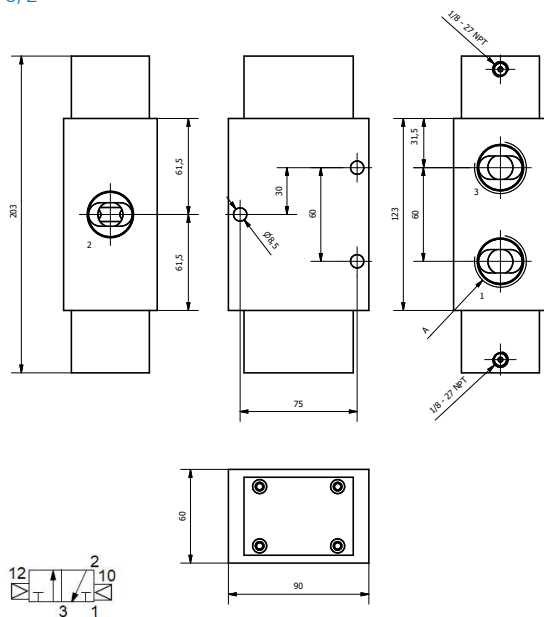
Azionamento: Pneumatico / Ritorno: pneumatico

Example code:

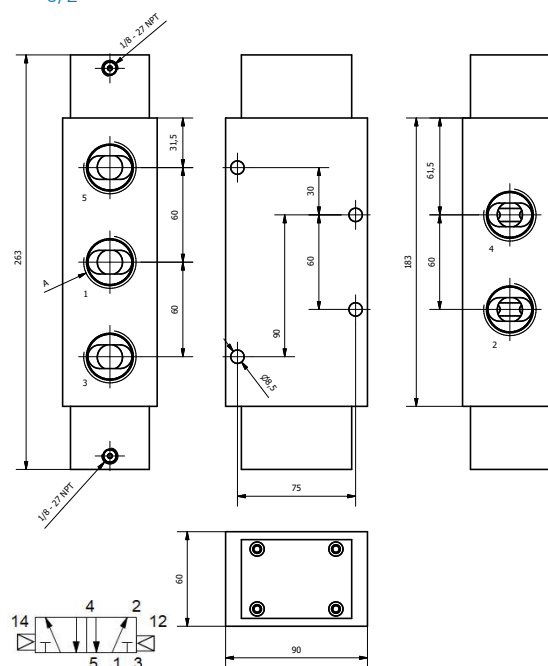
A= 3/4" : DPP32AL14NNB

A= 1" : DPP32AL16NNB

3/2



5/2



AISI316L 1/4", 3/8", 1/2", 3/4"NPT directional control spool valves - DP serie

Valvole di controllo direzione a cassetto in AISI316Lda 1/4", 3/8", 1/2", 3/4"NPT

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 or 5/2 Functions
- 1/4" (DN8mm) & 3/8", 1/2", 3/4" (DN12mm) size
- SS316L/316 full construction
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for dual pressure application
- Suitable for control and instrument gases
- High flow rate for the compact size of the valve
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
-  &  approved II 2D Ex h IIIC T85°C/T100°C Db X
- SIL 3 - IEC 61508 (pilot operated models) 



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzioni 3/2 e 5/2
- Taglie da 1/4" (DN 8mm) e 3/8", 1/2", 3/4" (DN12mm)
- Costruzione in AISI316L/AISI316
- Adatte per flussi multidirezionali
- Dotate di fori passanti sul corpo

- Idonee per gas di controllo e strumentale
- Alte portate per le dimensioni compatte della valvola
- Adatte per applicazioni con doppia pressione
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 
- SIL 3 - IEC61508 
(modelli con azionamento pneumatico)

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	1/4"-3/8"-1/2"-3/4" NPT
Working Pressure Pressione di lavoro	-0.9 -10 bar
Minimum pilot pressure Pressione massima di pilotaggio	2.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -55°C + 90°C (HNBR)
Orefice/Orifizio	dn 8 mm (1/4") - dn 12 mm (3/8", 1/2", 3/4")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

TYPES

- Operator: Air pilot / Return: Spring
- Operator: Air pilot / Return: Spring + internal relief
- Operator: Air pilot / Return: Pilot
- Operator: Knob push-pull/ Return: Spring
- Operator: Knob push-pull/ Return: Knob push-pull
- Operator: Knob push-pull/ Return: Pneumatic
- Operator: Air pilot / Return: Spring (manual reset)
- Operator: Pilot & manual / Return: Spring (manual res.)
- Operator: Roller Lever / Return: Spring (only 1/4")

Modelli

- Azionamento: Pneumatico / Ritorno: Molla
- Azion.: Pneum. / Ritorno: Molla + polmonaz. interna
- Azionamento: Pneumatico / Ritorno: Pneumatico
- Azionamento: Pulsante / Ritorno: Molla
- Azionamento: Pulsante / Ritorno: Pulsante
- Azionamento: Pulsante / Ritorno: Pneumatico
- Azionamento: Pneumatico / Ritorno: Molla (manuale)
- Azionamento: Pneum.&manuale /Ritorno: Molla (manuale)
- Azionamento: Leva Rotella / Ritorno: Molla (solo 1/4")

BUILDING MATERIALS	Materiali costruttivi
Body, end adapters, spool in 316L stainless steel	Corpo, adattatori terminali e spola in acciaio inossidabile AISI316L
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

Operator: Air pilot / Return: Spring (with or without internal relief)

Azionamento: Pneumatico / Ritorno: molla (con o senza polmonazione interna)

1/4" NPT Overall dimension & pneumatic diaphragm

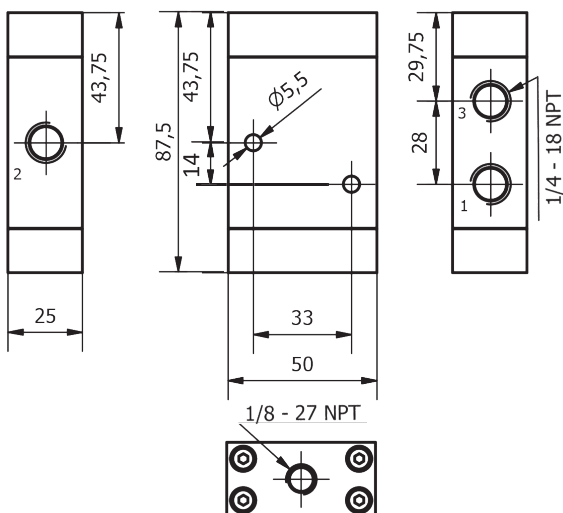
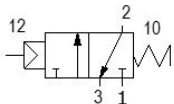
Dimensioni di ingombro taglia 1/4" NPT

Example code:

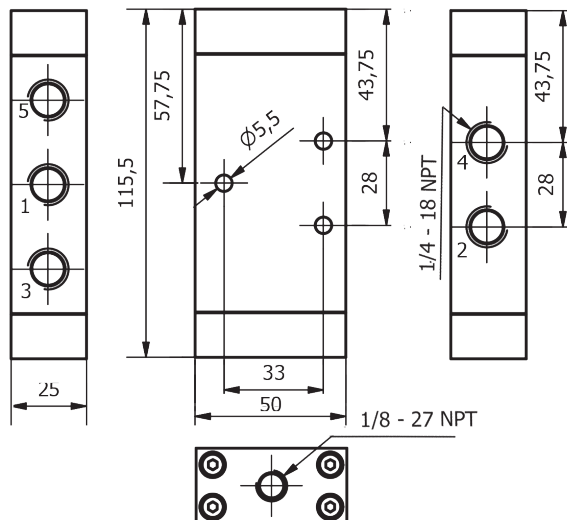
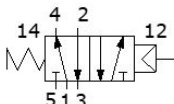
DP32SS04NNB

DP32SS04NNB-IR

3/2



5/2



1/2" NPT Overall dimension & pneumatic diaphragm

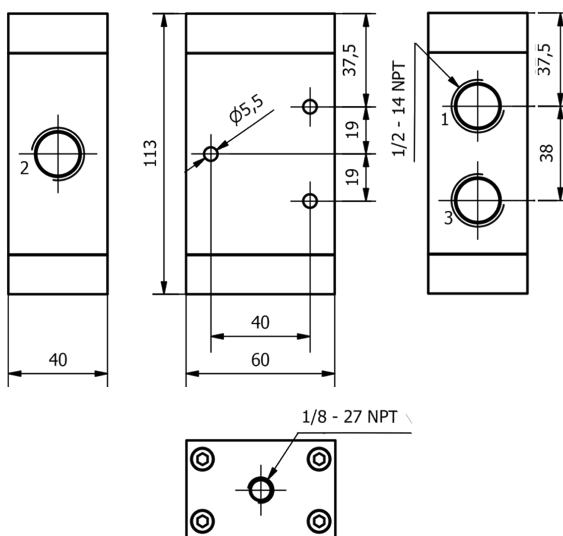
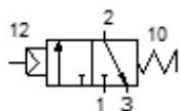
Dimensioni di ingombro taglia 1/2" NPT

Example code:

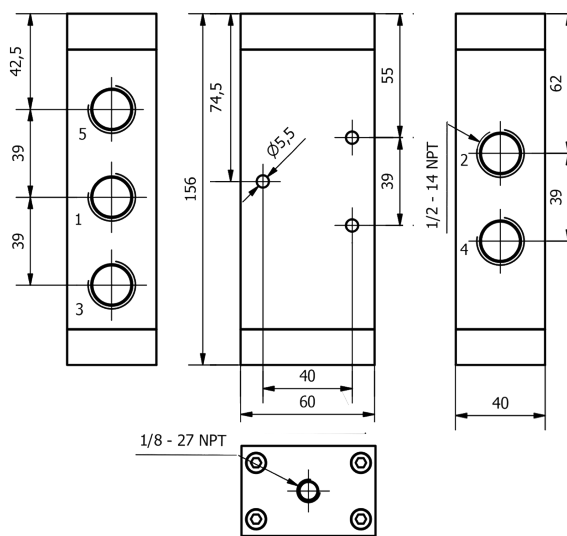
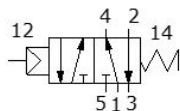
DP32SS08NNB

DP32SS08NNB-IR

3/2



5/2



Operator: Air pilot / Return: Pilot

Azionamento: Pneumatico / Ritorno: pneumatico

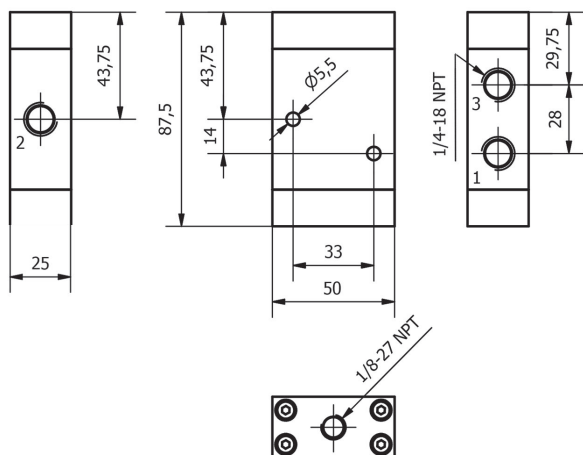
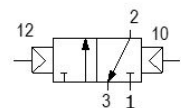
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

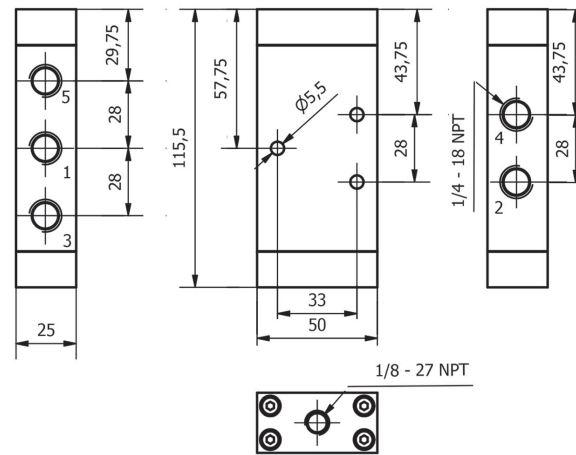
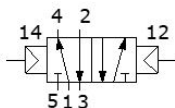
Example code:

DPP32SS04NNB

3/2



5/2



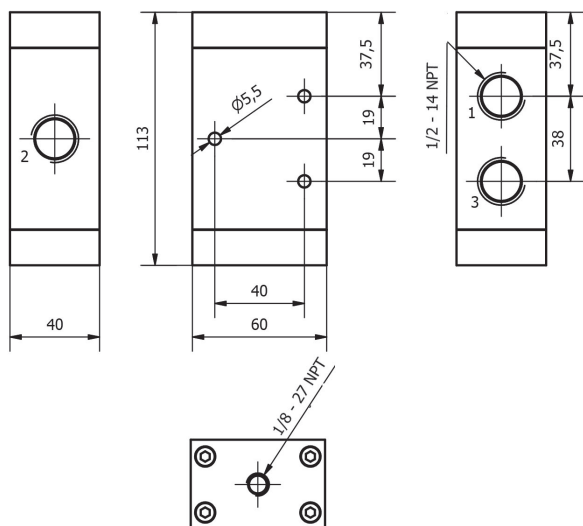
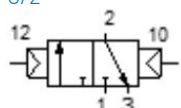
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

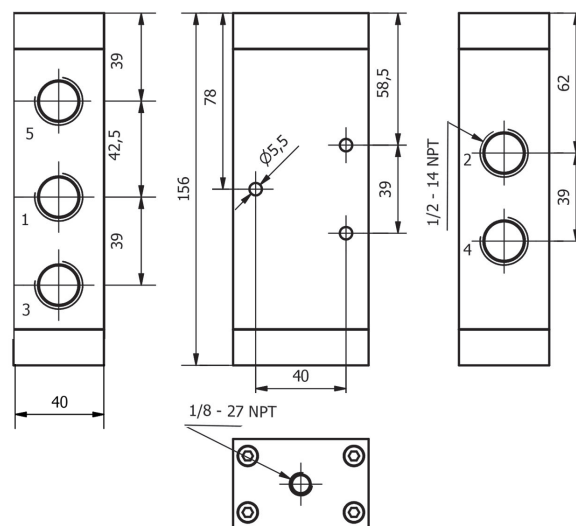
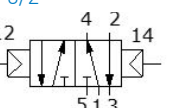
Example code:

DPP32SS08NNB

3/2



5/2



Operator: Knob push-pull / Return: Spring

Azionamento: Pulsante palmo / Ritorno: molla

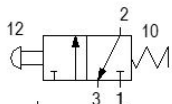
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

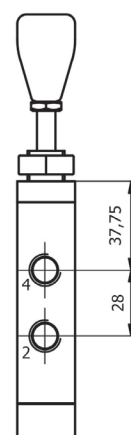
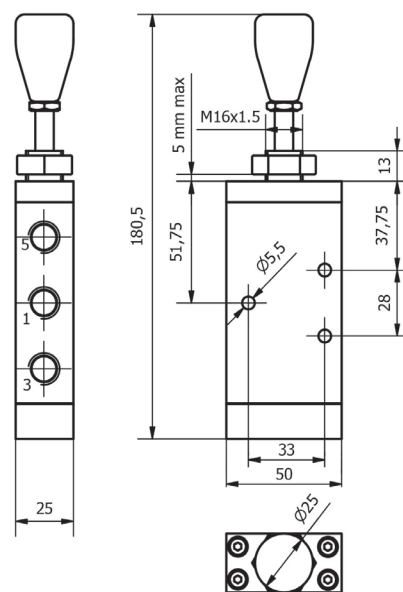
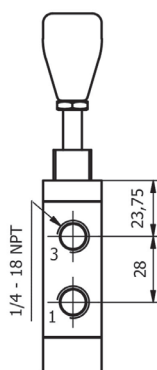
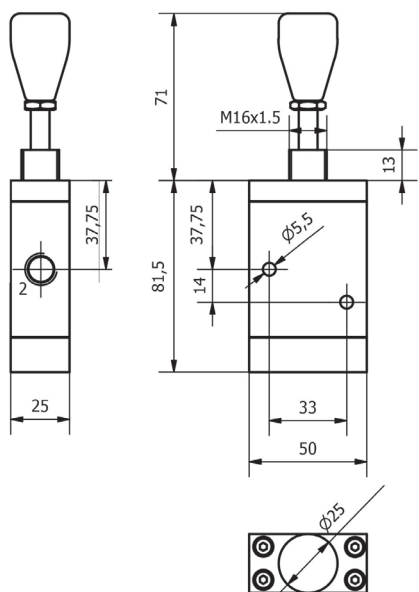
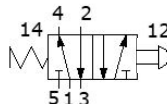
Example code:

DP32SS04NNB-M1

3/2



5/2



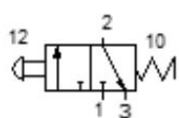
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

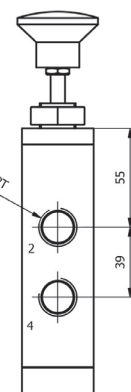
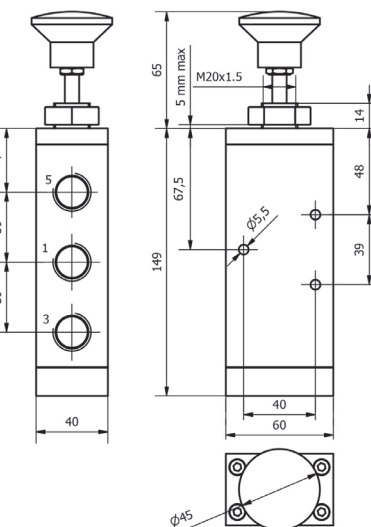
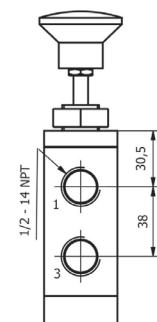
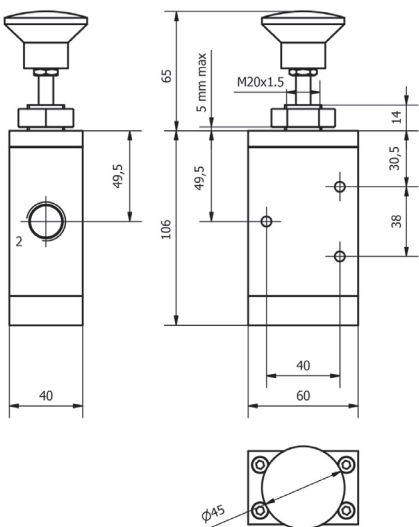
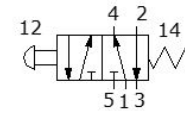
Example code:

DP32SS08NNB-M1

3/2



5/2



Operator: Knob push-pull/ Return: Knob push-pull

Azionamento: Pulsante palmo / Ritorno: pulsante palmo

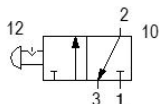
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

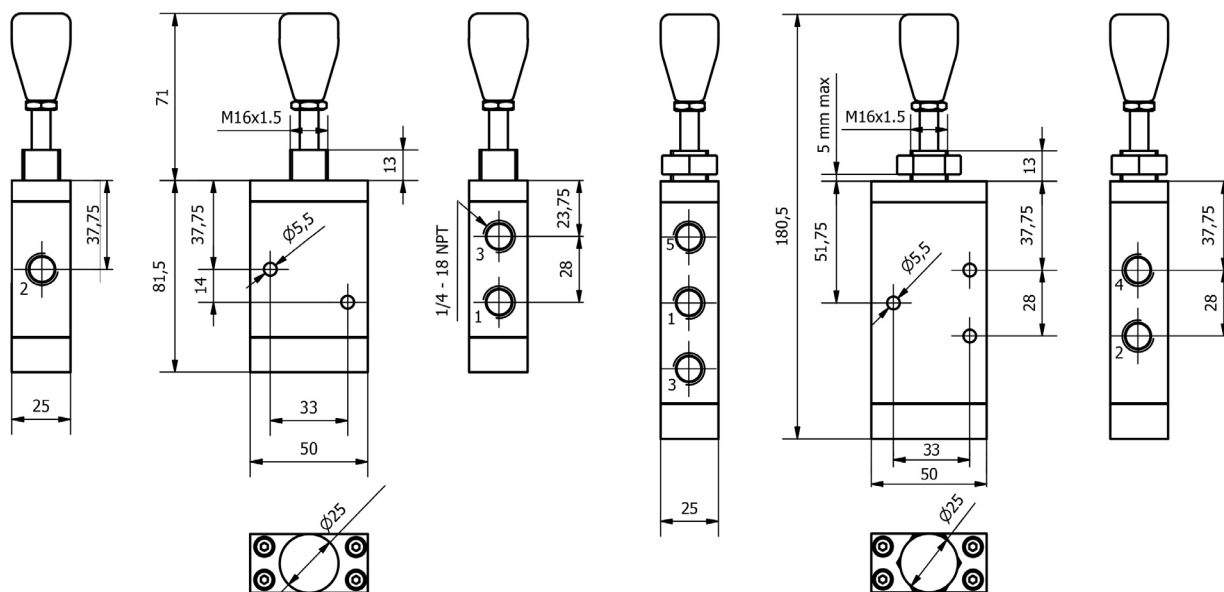
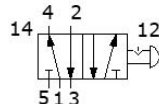
Example code:

DP32SS04NNB-M2

3/2



5/2



NB: Lockable version available

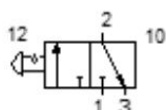
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

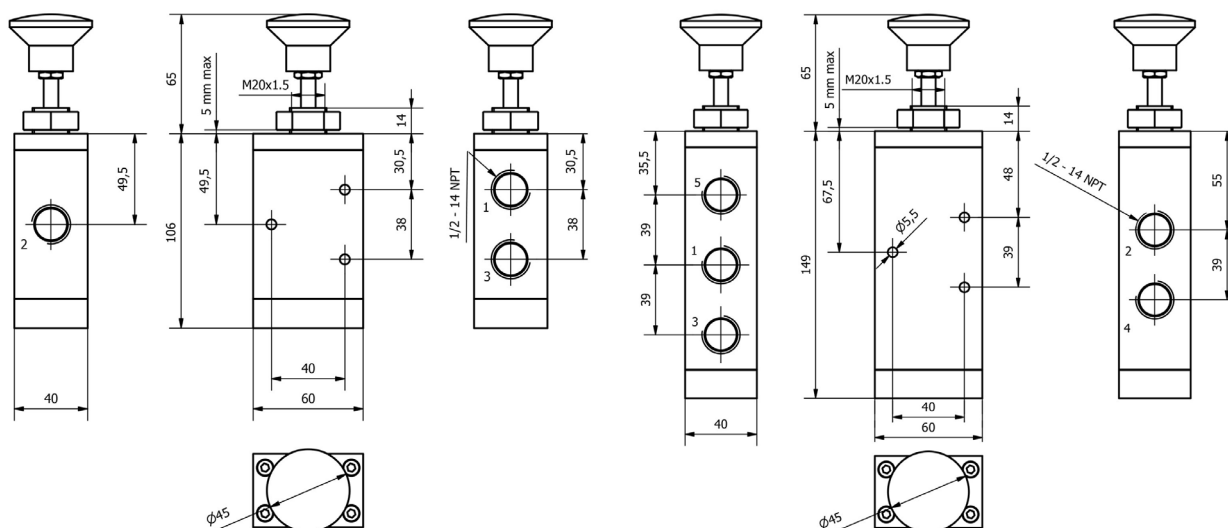
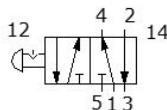
Example code:

DP32SS08NNB-M2

3/2



5/2



Operator: Knob push-pull/ Return: pneumatic

Azionamento: Pulsante palmo / Ritorno: pneumatico

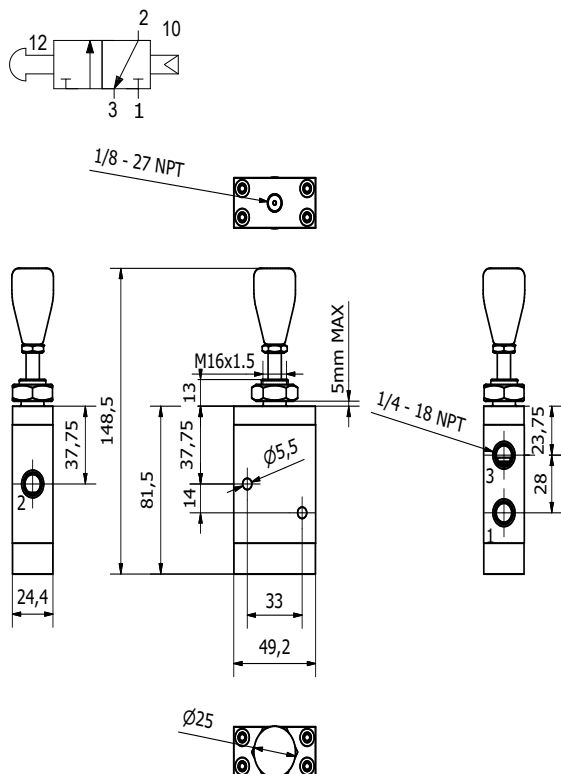
1/4" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/4"NPT

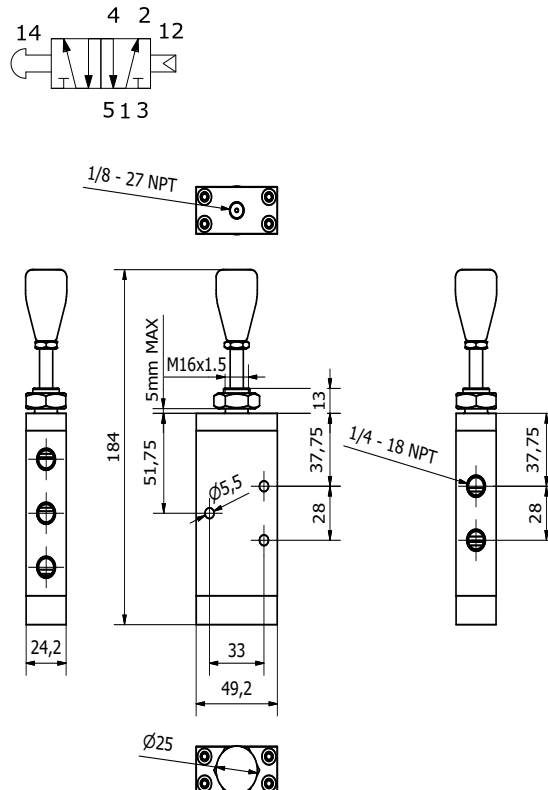
Example code:

DP32SS04NNB-M3

3/2



5/2



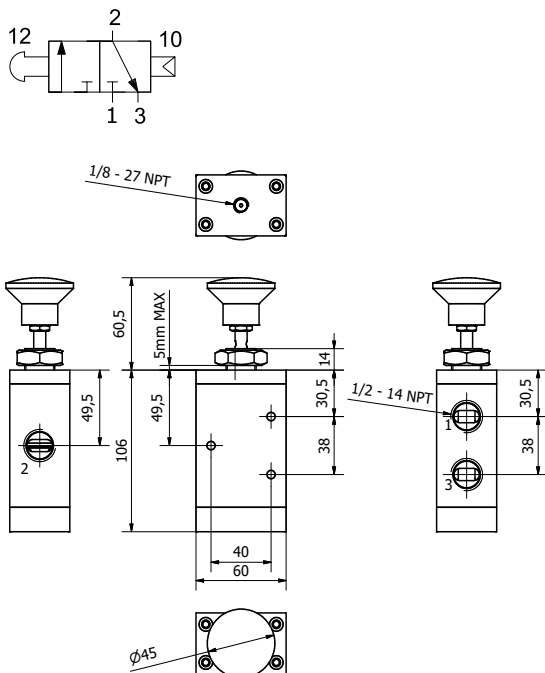
1/2" NPT Overall dimension & pneumatic diaphragm

Dimensioni di ingombro taglia 1/2"NPT

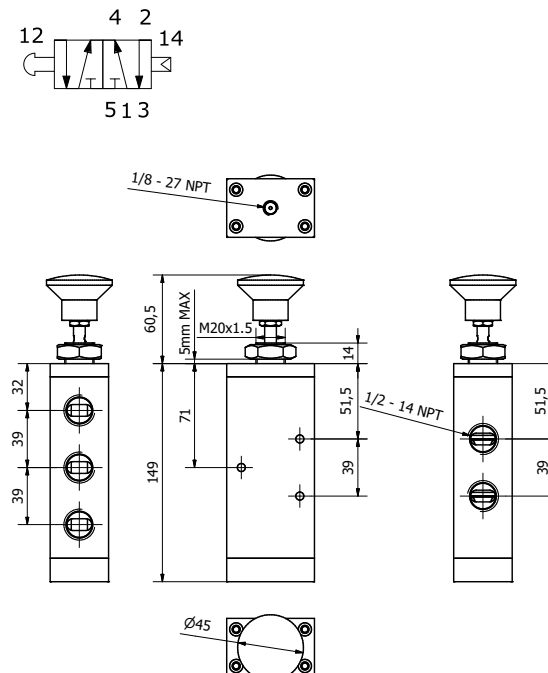
Example code:

DP32SS08NNB-M3

3/2



5/2



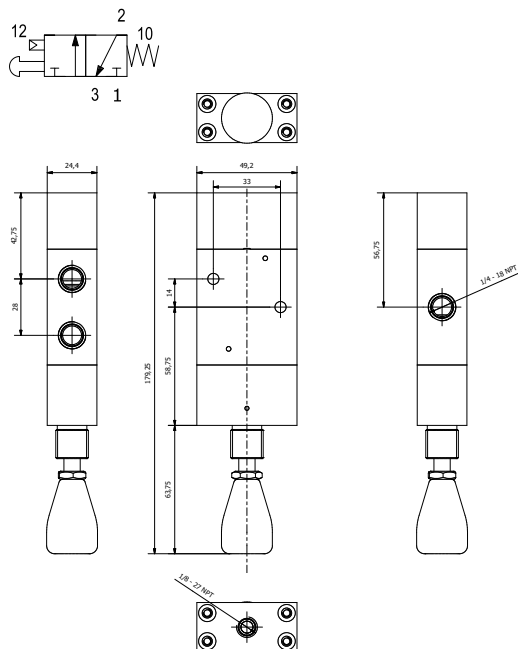
Operator: Air pilot / Return: Spring (manual reset)

Azionamento: Pneumatico / Ritorno: molla (riarmo manuale)

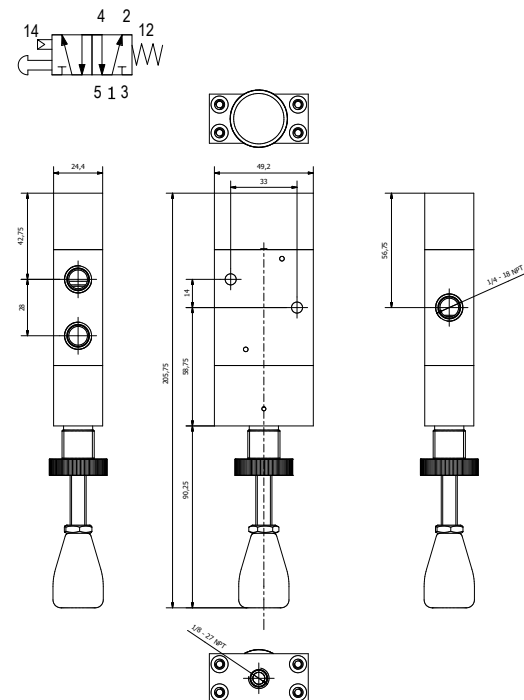
Overall dimension

Dimensioni di ingombro

3/2



5/2



Example code:

DP32SS04NNB-RM

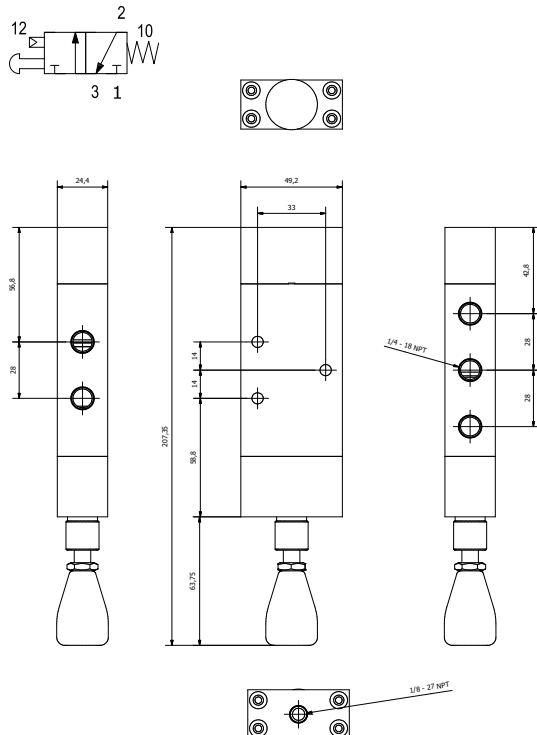
Operator: Air pilot & manual / Return: Spring (manual reset)

Azionamento: Pneumatico e manuale/ Ritorno: molla (riarmo manuale)

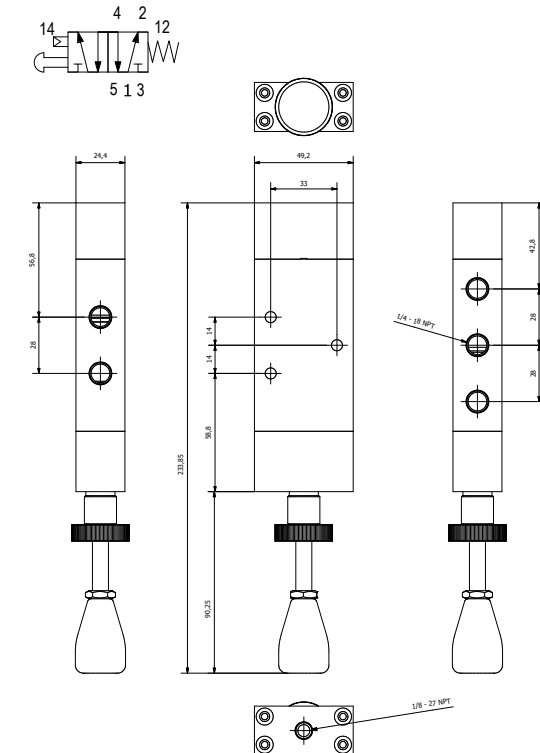
Overall dimension

Dimensioni di ingombro

3/2



5/2



Example code:

DP32SS04NNB-RM1

Operator: Roller lever / Return: Spring

Azionamento: Leva rotella / Ritorno: molla

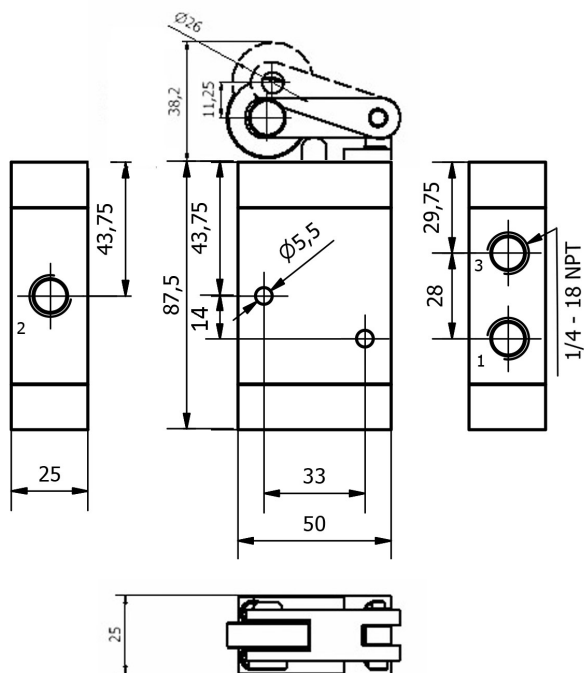
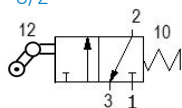
Overall dimension & pneumatic diaphragm

Dimensioni di ingombro

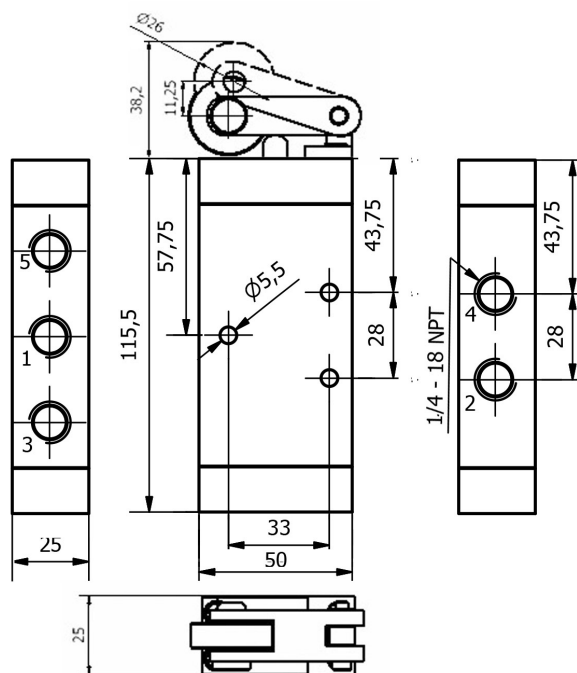
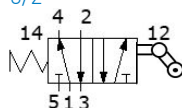
Example code:

DP32SS04NNB-W1

3/2



5/2



AISI316L 3/4", 1"NPT directional control spool valves - DP serie

Valvole di controllo a cassetto in AISI316L 3/4", 1"NPT - serie DP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 or 5/2 Functions
- 3/4" & 1" (DN21mm) size
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for dual pressure application
- Suitable for control and instrument gases
- High flow rate for the compact size of the valve
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X*
-  &  approved*
- SIL 3 - IEC 61508 (pilot operated models)  *



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzioni 3/2 e 5/2
- Taglie da 3/4" e 1" (DN21mm)
- Adatte per flussi multidirezionali
- Dotate di fori passanti sul corpo
- Idonee per gas di controllo e strumentale

- Alte portate per le dimensioni compatte della valvola
- Adatte per applicazioni con doppia pressione
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X*
-  ed  *
- SIL 3 - IEC61508  *
(modelli con azionamento pneumatico)

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/4", 1"NPT
Working Pressure Pressione di lavoro	12 bar
Minimum pilot pressure Pressione minima di pilotaggio	2.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -55°C + 90°C (HNBR)
Orefice/Orifizio	dn 16 mm (3/4") dn 21 mm (1")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

TYPES

- Operator: Air pilot / Return: Spring
- Operator: Air pilot / Return: Pilot

Modelli

- Azionamento: Pneumatico / Ritorno: Molla
- Azionamento: Pneumatico / Ritorno: Pneumatico

BUILDING MATERIALS	Materiali costruttivi
Body, end adapters, spool in 316L stainless steel	Corpo, adattatori terminali e spola in acciaio inossidabile AISI316L
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

* Pending

Overall dimension & pneumatic diaphragm

Dimensioni di ingombro e schema pneumatico

Operator: Air pilot / Return: Spring

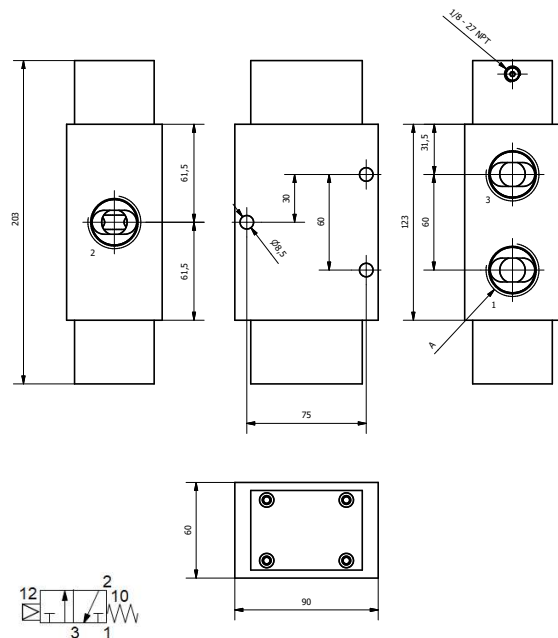
Azionamento: Pneumatico / Ritorno: molla

Example code:

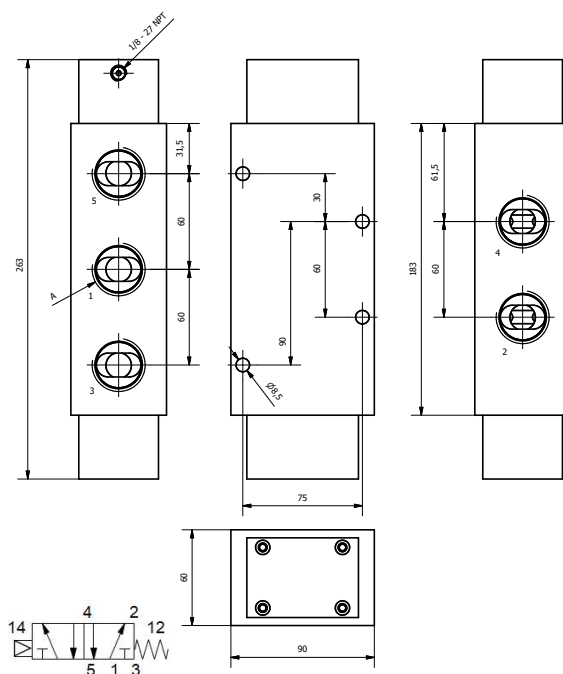
A= 3/4": DP32SS14NNB

A= 1" : DP32SS16NNB

3/2



5/2



Operator: Air pilot / Return: Pilot

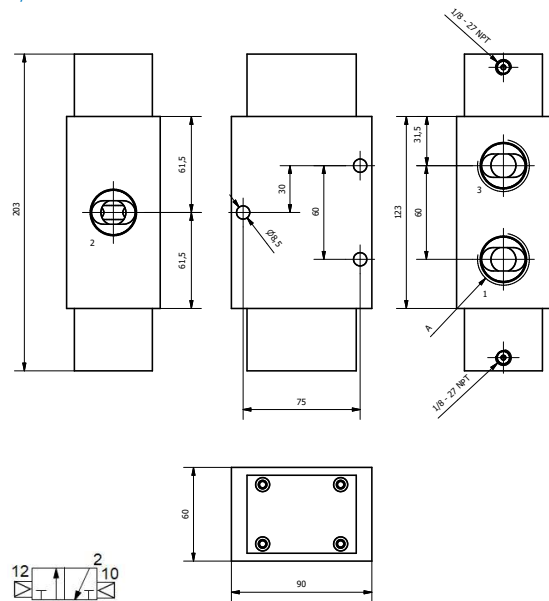
Azionamento: Pneumatico / Ritorno: pneumatico

Example code:

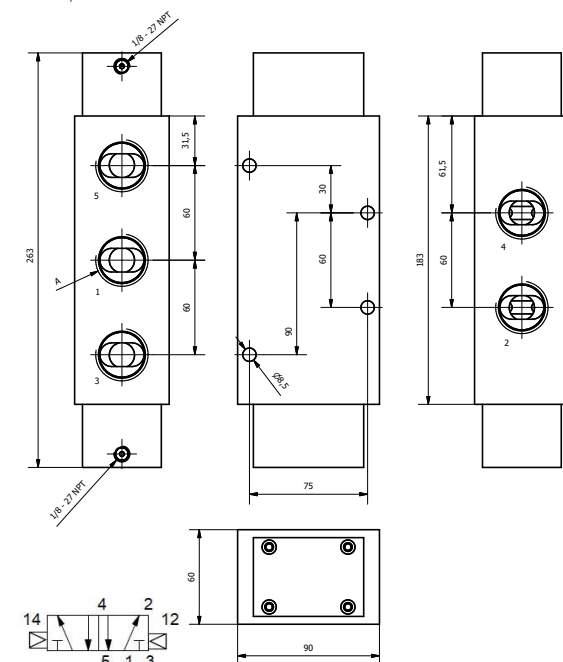
A= 3/4": DPP32SS14NNB

A= 1" : DPP32SS16NNB

3/2



5/2



Copper free aluminum alloy 1/2", 3/4", 1"NPT pilot actuated poppet valves - EP serie

Valvole pneumatiche ad otturatore in alluminio esente rame 1/2", 3/4", 1"NPT - serie EP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 universal function
- 1/2" (DN 12) 3/4" (DN12mm & 16mm) & 1" (DN21mm) size
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for control and instrument gases
- *ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved
- SIL 3 - IEC 61508 



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzione 3/2 universale
- Taglie da 3/4" (DN 16mm) e 1" (DN21mm)
- Dotate di fori passanti sul corpo

- Idonee per gas di controllo e strumentale
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 
- SIL 3 - IEC61508 

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Line port / Connessioni	1/2", 3/4", 1"NPT
Pilot port / Connessioni	1/8"NPT
Working Pressure Pressione di lavoro	10 bar
Minimum pilot pressure Pressione minima di pilotaggio	1.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -60°C + 90°C (HNBR)
Orefice/Orifizio	dn 12 (1/2", 3/4") dn 16 mm (3/4") dn 21 mm (1")
CV	4.1 (1/2"), 6.8 (3/4"DN12) 9.3 (3/4"DN16), 12.1 (1")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

TYPES

- Operator: Air pilot / Return: Spring

Modelli

- Azionamento: Pneumatico / Ritorno: Molla

BUILDING MATERIALS	Materiali costruttivi
Body and end adapters in copper free aluminum alloy with epoxy painting	Corpo e adattatori terminali in alluminio esente rame con verniciatura epossidica
Spool in AISI316	Spola in acciaio AISI316
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

* pending for 1/2" & 3/4" (DN16) poppet

Overall dimension & pneumatic diaphragm

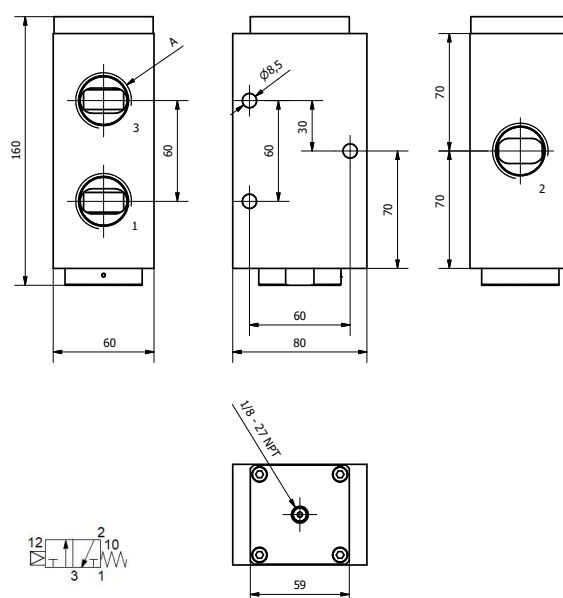
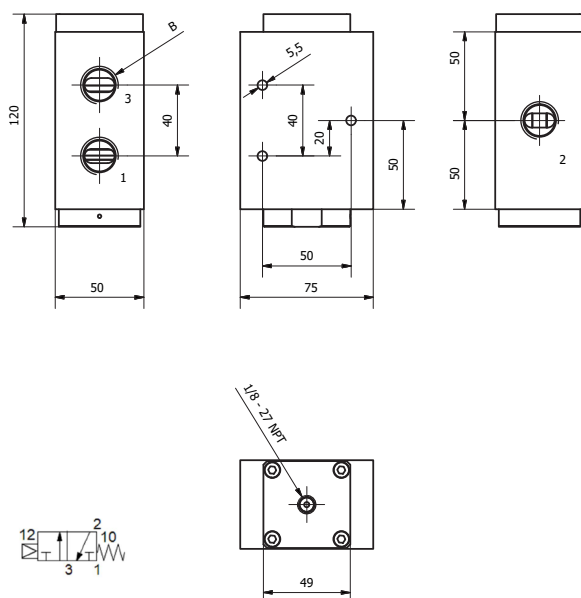
Dimensioni di ingombro e schema pneumatico

Operator: Air pilot / Return: Spring

Azionamento: Pneumatico / Ritorno: molla

1/2", 3/4"(DN12)

3/4"(DN16), 1"



Example code:

A=1/2" : EP32AL08NNB

A= 3/4"DN12: EP32AL12NNB

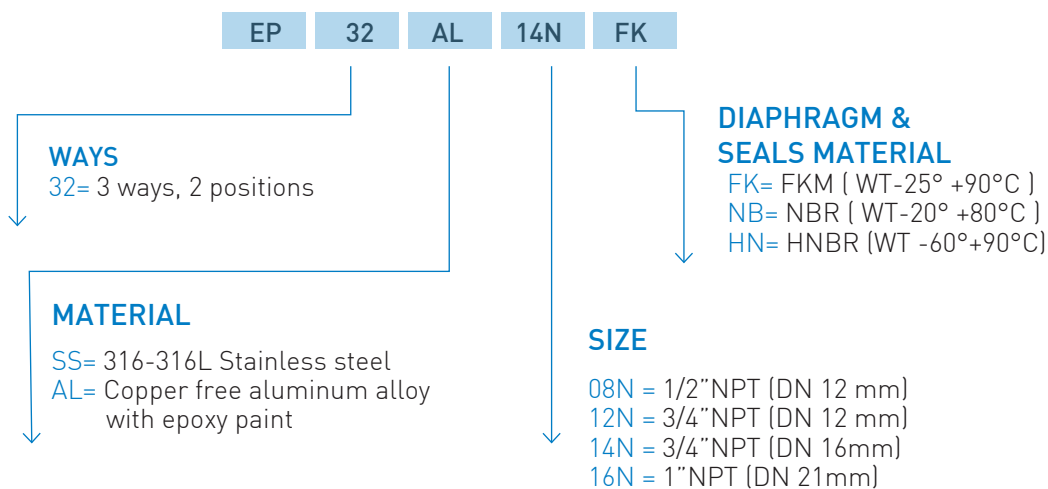
Example code:

A= 3/4"DN16: EP32AL14NNB

A= 1" : EP32AL16NNB

Ordering information

Come ordinare



AISI316L 3/4", 1"NPT pilot actuated poppet valves - EP serie

Valvole pneumatiche ad otturatore in AISI316L 3/4", 1"NPT - serie EP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- 3/2 universal function
- 1/2" (DN 12) 3/4" (DN12mm & 16mm) & 1" (DN21mm) size
- Suitable for multidirectional flow
- Provided with through-holes in the body
- Suitable for control and instrument gases
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved
- SIL 3 - IEC 61508 



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Funzione 3/2 universale
- Taglie da 3/4" (DN 16mm) e 1" (DN21mm)
- Dotate di fori passanti sul corpo

- Idonee per gas di controllo e strumentale
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 
- SIL 3 - IEC61508 

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Line port / Connessioni	1/2", 3/4", 1"NPT
Pilot port / Connessioni	1/8"NPT
Working Pressure Pressione di lavoro	10 bar
Minimum pilot pressure Pressione minima di pilotaggio	1.5bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -60°C + 90°C (HNBR)
Orefice/Orifizio	dn 12 (1/2", 3/4") dn 16 mm (3/4") dn 21 mm (1")
CV	4.1 (1/2"), 6.8 (3/4" DN12) 9.3 (3/4" DN16), 12.1 (1")

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

BUILDING MATERIALS	Materiali costruttivi
Body, end adapters, spool in 316L stainless steel	Corpo, adattatori terminali e spola in acciaio inossidabile AISI316L
Screws and springs in stainless steel	Viti e molle in acciaio inossidabile
Gasket & seals in elastomer	Guarnizioni e tenute in elastomero

* pending for 1/2" & 3/4" (DN16) poppet

Overall dimension & pneumatic diaphragm

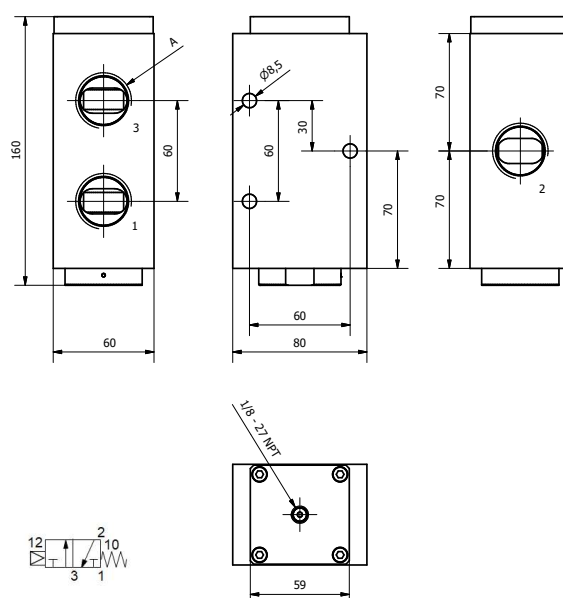
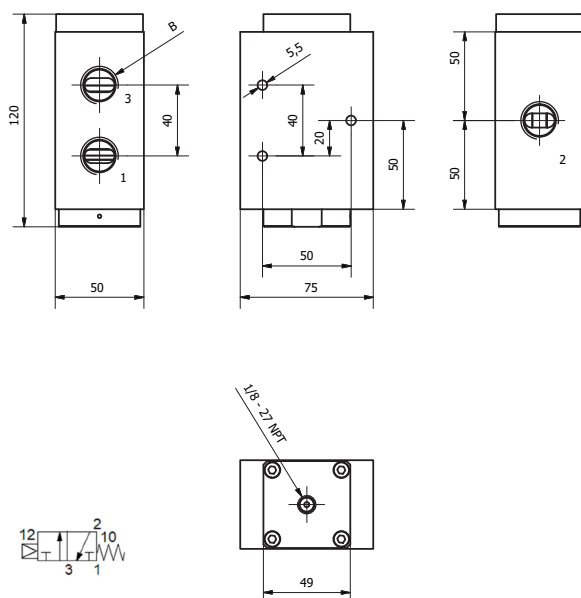
Dimensioni di ingombro e schema pneumatico

Operator: Air pilot / Return: Spring

Azionamento: Pneumatico / Ritorno: molla

1/2", 3/4"(DN12)

3/4"(DN16), 1"



Example code:

A=1/2" : EP32SS08NNB

A= 3/4"DN12: EP32SS12NNB

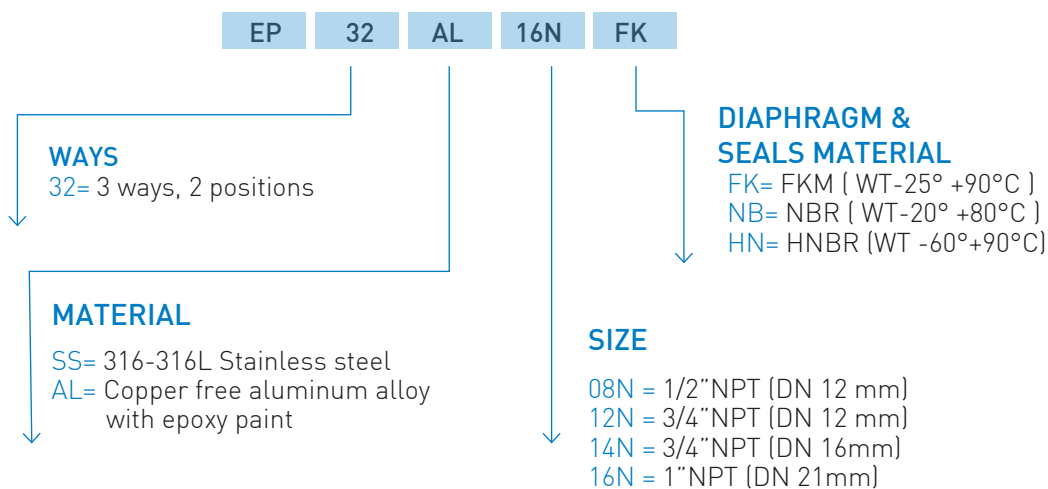
Example code:

A= 3/4":DN16 EP32SS14NNB

A= 1" : EP32SS16NNB

Ordering information

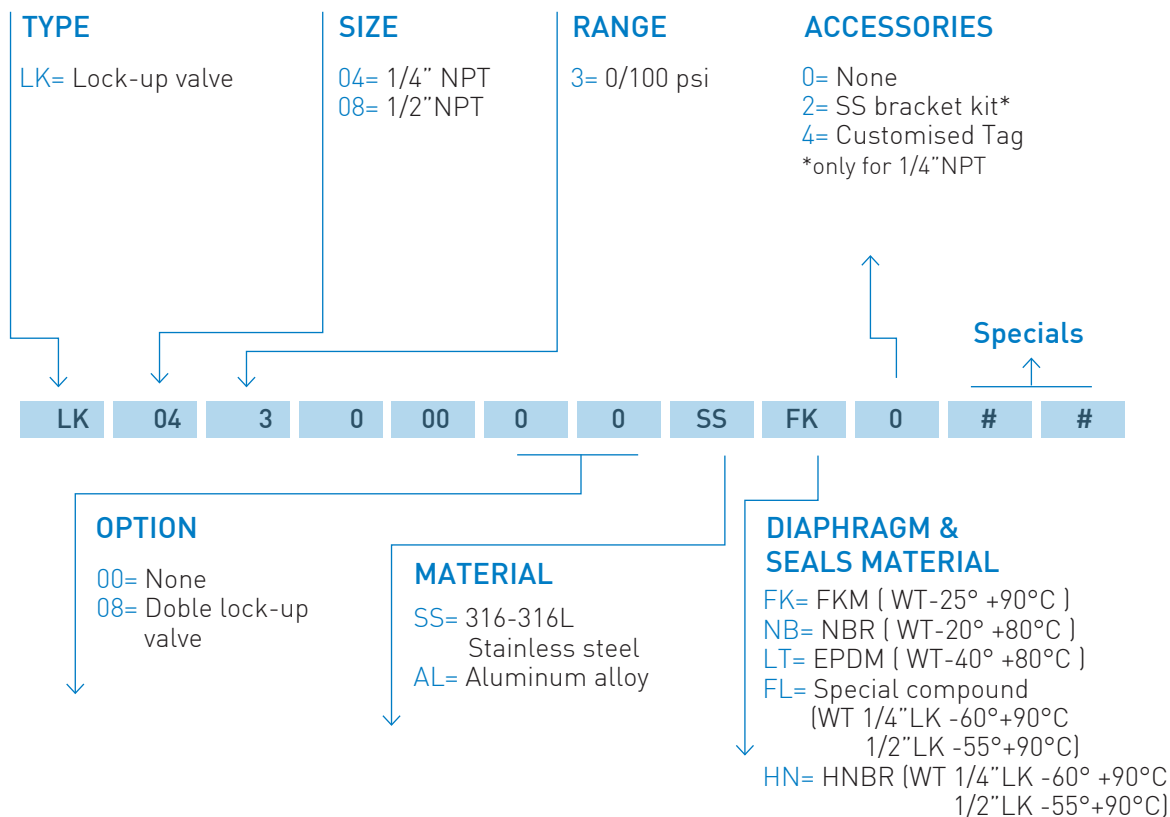
Come ordinare



Ordering information

Come ordinare

www.sitecna.eu



CODE EXAMPLES

LK	08	3	0	00	0	0	SS	FK	0	
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1/2" NPT, SS316L, Single Lock up valve, with FKM diaphragm & seals, Cv0.9, WT -25°C to 90°C, with SS bracket

Valvola di lock-up singola da 1/4" NPT in AISI316L con diaframma e tenute in FKM, Cv 0.9, temperatura di lavoro da -25°C a +90°C

LK	04	3	0	00	0	8	AL	LT	2	
----	----	---	---	----	---	---	----	----	---	--

1/4" NPT, Epoxy painted aluminium alloy + SS304 or 316L, Double lock up valve with EPDM diaphragm & seals, CV 0.9, WT -40°C to +80°C, with SS bracket

Valvola di lock-up doppia da 1/4" NPT in lega di alluminio con verniciatura epossidica + AISI304-316L con diaframma e tenute in EPDM, Cv 0.9, temperatura di lavoro da -40°C a +80°C, con staffa inox



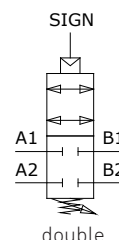
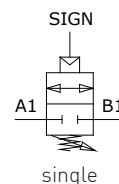
01-LK/C24A

Copper free aluminium alloy 1/4"NPT lock-up valves – LK serie

Valvole di lock-up da 1/4"NPT in lega di alluminio esente rame – serie LK

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Single or double locking possibility
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Possibilità di blocco singolo o doppio
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	1/4"NPT
Signal connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	7bar
Flow rate (Cv)/Portata	0.9 (1/4")
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Sensibility/Sensibilità	0.1bar
Max lock-up pressure Massima pressione di intervento	7bar

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

*Special version in HNBR (WT -60° +90°C)

It provides reliable shut down & isolation from control devices of the actuator whenever air pressure falls below operating safety point. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316L - Compact small package size – light weight
 Permette affidabile intercettazione ed esclusione dell'attuatore quando la pressione dell'aria scende al di sotto del livello minimo operativo. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI304/316L - Dimensioni di ingombro ridotte – Leggero

BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top in epoxy painted copper free aluminum alloy	Corpo, distanziale, coperchio in lega di alluminio esente rame con verniciatura epossidica
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragms & seals in elastomer	Diaframmi e guarnizioni in elastomero

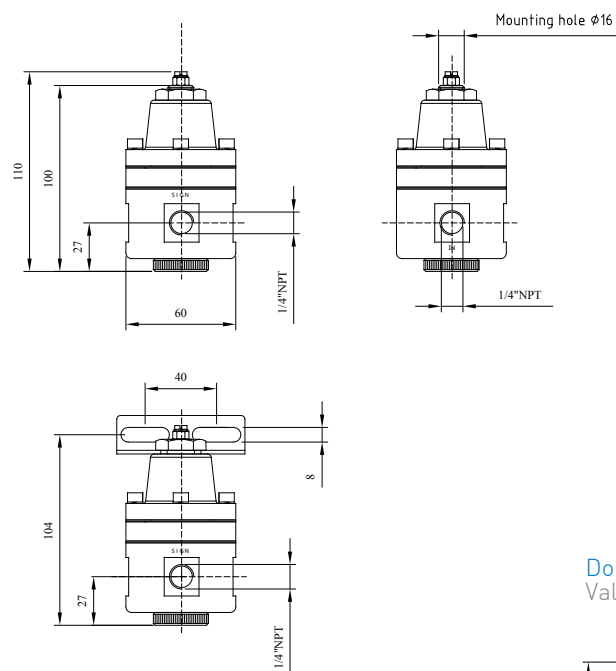
Overall dimension

Dimensioni di ingombro

Single Lock-up valve

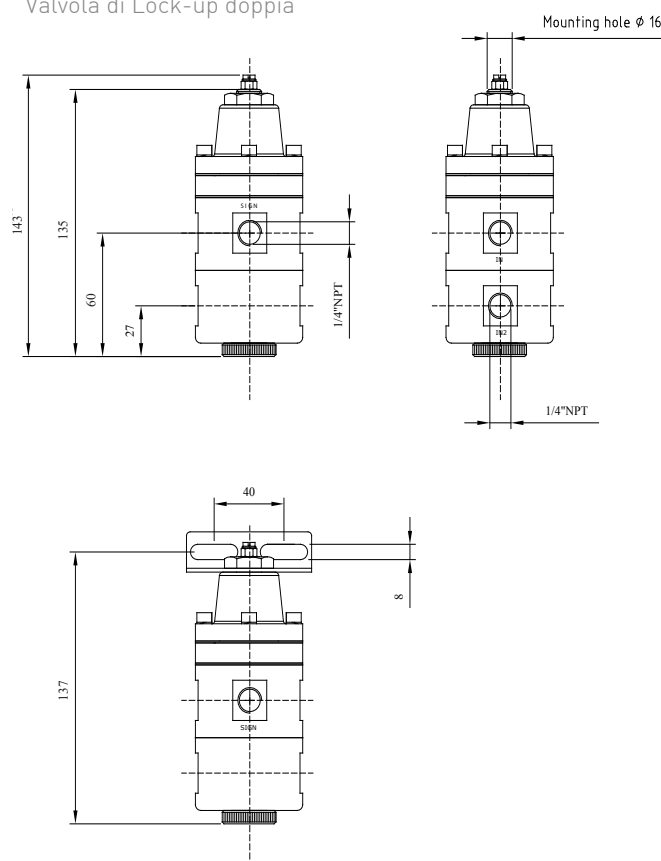
Valvola di Lock-up singola

LK04 A=1/4"



Double Lock-up valve

Valvola di Lock-up doppia



Accessories

Accessor

Bracket /Staffa

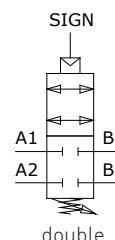
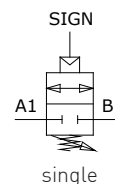
SQ-FR04

Copper free aluminium alloy 3/8", 1/2", 3/4"NPT lock-up valves – LK serie

Valvole di lock-up da 3/8", 1/2", 3/4"NPT in lega di alluminio esente rame – serie LK

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Single or double locking possibility
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIC T85°C/T100°C Db X

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Possibilità di blocco singolo o doppio
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIC T85°C/T100°C Db X



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/8", 1/2", 3/4"NPT
Pilot connection Connessione pilotaggio	1/4"NPT
Signal connection Connessione segnale	1/8"NPT
Working pressure Pressione di lavoro	-0.9 - 10 bar
Max signal/output pressure Pressione massima segnale/uscita	7 bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -55° up tp 90°C (FVMQ)*
Upward adjustment/ Sensibilità in salita	1 bar
Downward adjustment/ Sensibilità in discesa	0,5 bar
Max lock-up pressure Massima pressione di intervento	7 bar

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

***Special version in HNBR (WT -55° +90°C)**

It provides reliable shut down & isolation from control devices of the actuator whenever air pressure falls below operating safety point. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316L – Compact small package size – light weight
 Permette affidabile intercettazione ed esclusione dell'attuatore quando la pressione dell'aria scende al di sotto del livello minimo operativo. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI304/316L – Dimensioni di ingombro ridotte – Leggero

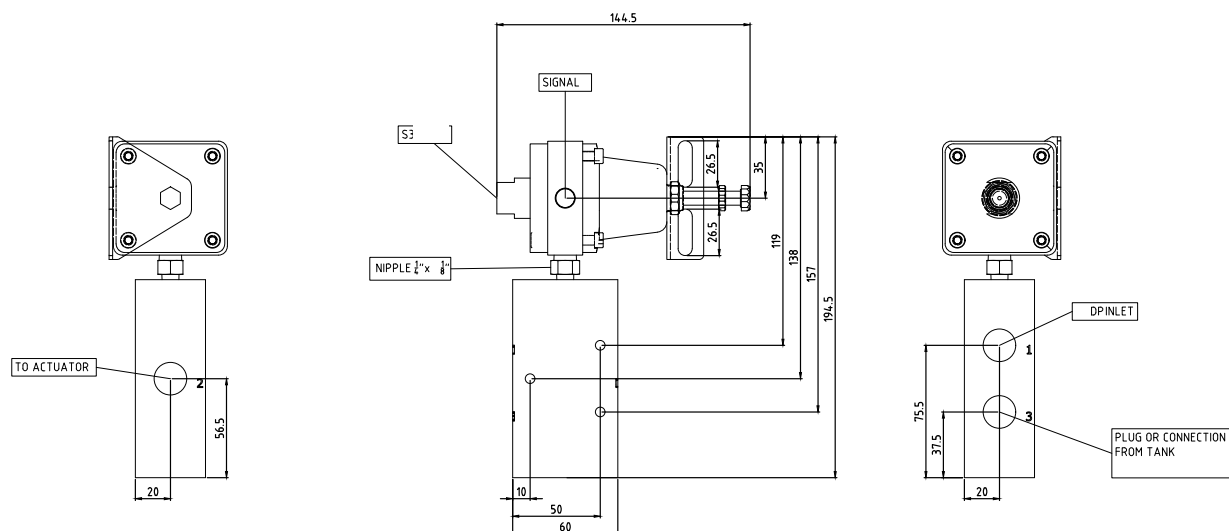
BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, end plate of switch valve, nipple in AISI316	Corpo, tazza superiore, piattello switch valve, nipplo in AISI316
Body, heads of spool valves in painted copper free aluminum alloy	Corpo e testate spool valves in alluminio esente rame verniciato
Internals, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragms & seals in elastomer	Diaframmi e guarnizioni in elastomero

Overall dimension

Dimensioni di ingombro

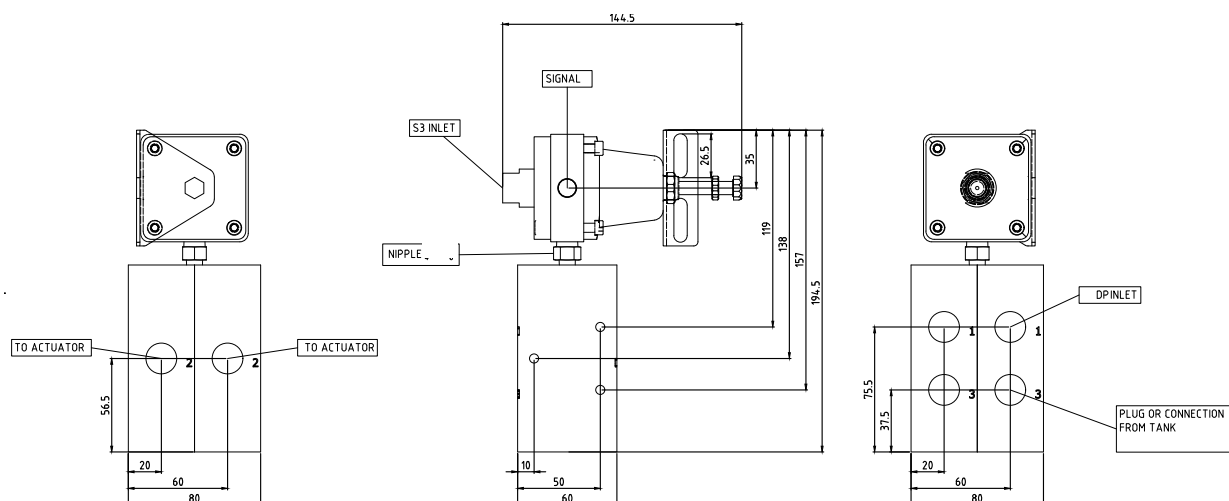
Single Lock-up valve

Valvola di Lock-up singola



Double Lock-up valve

Valvola di Lock-up doppia

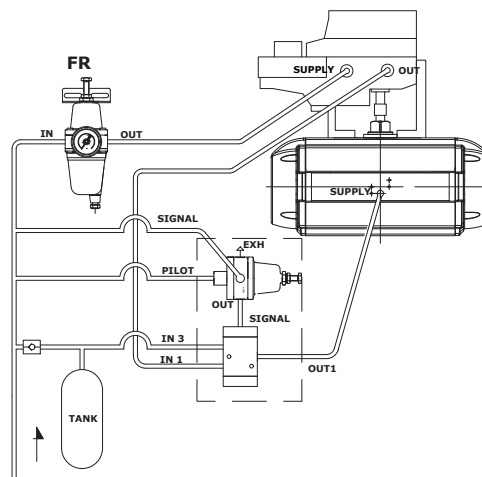
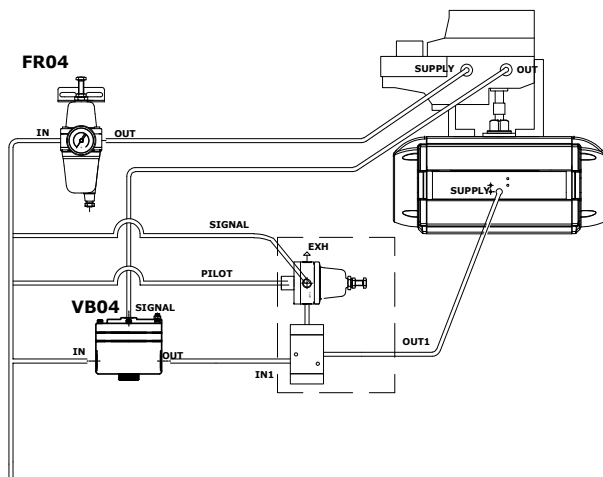


Application examples for LK08

Esempi di applicazione del LK08

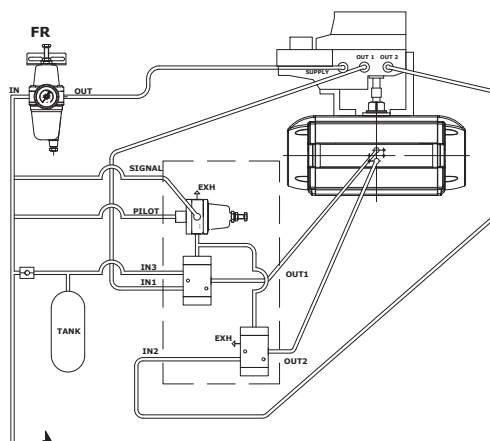
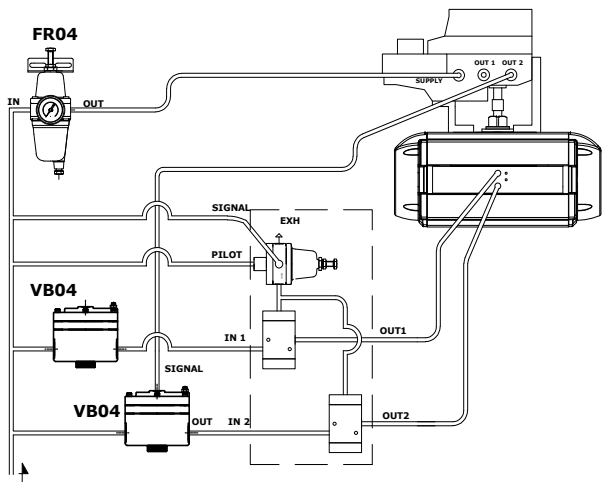
Single actuating actuator

Attuatore a singolo effetto



Double actuating actuator

Attuatore a doppio effetto

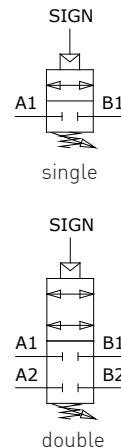


SS316L 1/4"NPT lock-up valves – LK serie

Valvole di lock-up da 1/4"NPT in AISI316L – serie LK

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Single or double locking possibility
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
-  &  approved II 2D Ex h IIC T85°C/T100°C Db X

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Possibilità di blocco singolo o doppio
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
-  II 2D Ex h IIC T85°C/T100°C Db X
- Approvato  ed 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	1/4"NPT
Signal Connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	7bar
Flow rate (Cv)/Portata	0.9 (1/4")
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Sensibility/Sensibilità	0.1bar
Max Lock up pressure Massima pressione di intervento	7bar

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

*Special version in HNBR (WT -60° +90°C)

It provides reliable shut down & isolation from control devices of the actuator whenever air pressure falls below operating safety point. Rugged and corrosion-resistant – made in SS316L - Compact small package size – light weight

Permette affidabile intercettazione ed esclusione dell'attuatore quando la pressione dell'aria scende al di sotto del livello minimo operativo. Robusto e resistente alla corrosione – Costruito completamente in AISI316L - Dimensioni di ingombro ridotte – Leggero

BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top in SS316L stainless steel	Corpo, distanziale, coperchio in acciaio inossidabile AISI316/316L
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragms & seals in elastomer	Diaframmi e guarnizioni in elastomero

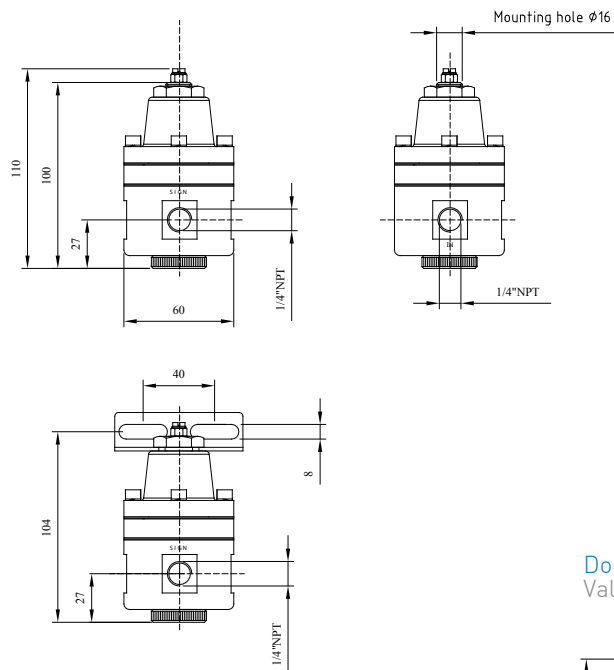
Overall dimension

Dimensioni di ingombro

Single Lock-up valve

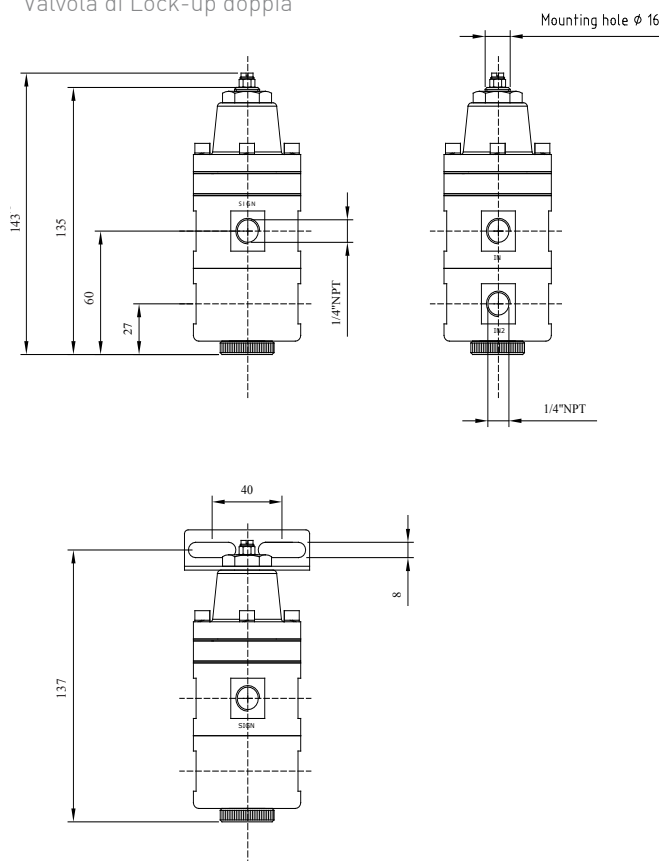
Valvola di Lock-up singola

LK04 A=1/4"



Double Lock-up valve

Valvola di Lock-up doppia



Accessories

Accessor

Bracket /Staffa

SQ-FR04

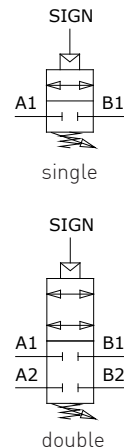
BT-LK04SS/C22B

SS316L 3/8", 1/2", 3/4"NPT lock-up valves – LK serie

Valvole di lock-up da 3/8", 1/2", 3/4"NPT in AISI316L – serie LK

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Single or double locking possibility
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Possibilità di blocco singolo o doppio
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/8", 1/2", 3/4"NPT
Pilot connection Connessione pilotaggio	1/4"NPT
Signal connection Connessione segnale	1/8"NPT
Working pressure Pressione di lavoro	-0.9 - 10 bar
Max signal/output pressure Pressione massima segnale/uscita	7 bar
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -55° up tp 90°C (FVMQ)*
Upward adjustment/ Sensibilità in salita	1 bar
Downward adjustment/ Sensibilità in discesa	0,5 bar
Max lock-up pressure Massima pressione di intervento	7 bar

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

***Special version in HNBR (WT -55° +90°C)**

It provides reliable shut down & isolation from control devices of the actuator whenever air pressure falls below operating safety point. Rugged and corrosion-resistant – made in SS316L - Compact small package size – light weight

Permette affidabile intercettazione ed esclusione dell'attuatore quando la pressione dell'aria scende al di sotto del livello minimo operativo. Robusto e resistente alla corrosione – Costruito completamente in AISI316L - Dimensioni di ingombro ridotte – Leggero

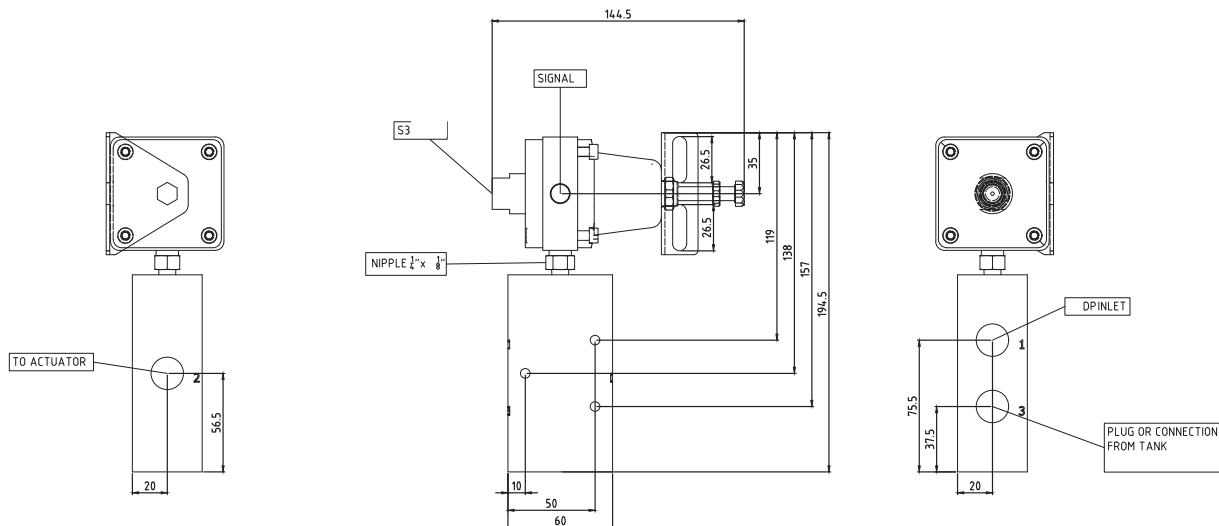
BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, end plate of switch valve, Body, heads of spool valves nipple in AISI316	Corpo, tazza superiore, piattello switch valve, Corpo e testate spool valves. nipplo in AISI316
Internals, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragms & seals in elastomer	Diaframmi e guarnizioni in elastomero

Overall dimension

Dimensioni di ingombro

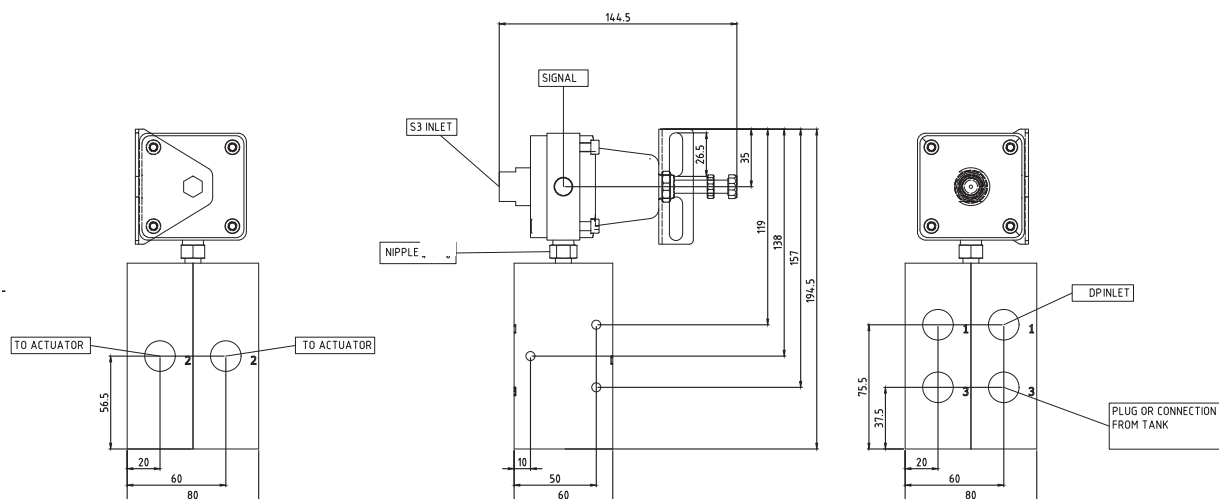
Single Lock-up valve

Valvola di Lock-up singola



Double Lock-up valve

Valvola di Lock-up doppia

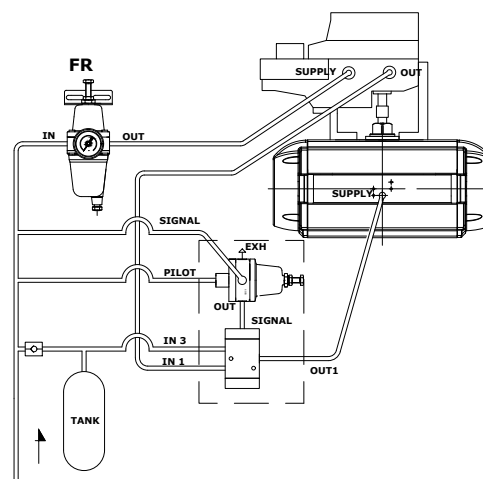
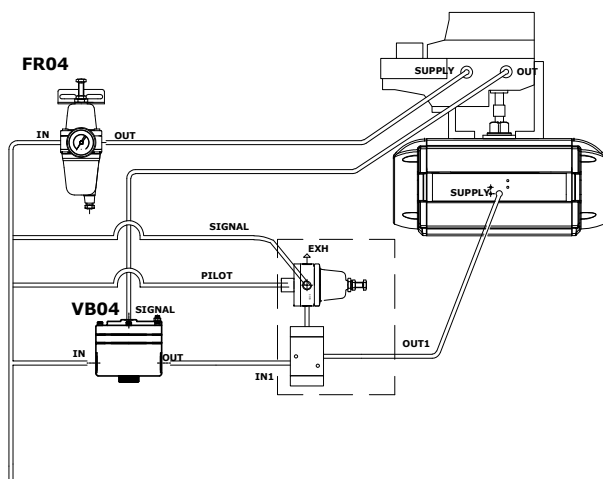


Application examples for LK08

Esempi di applicazione del LK08

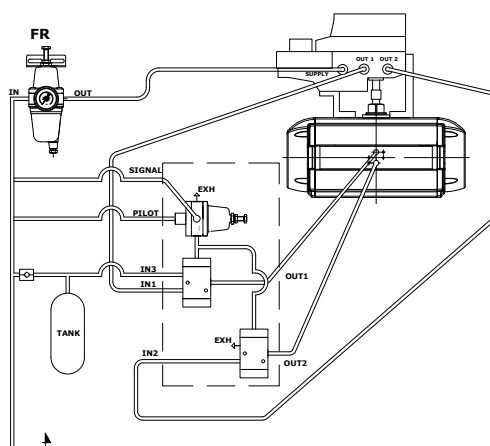
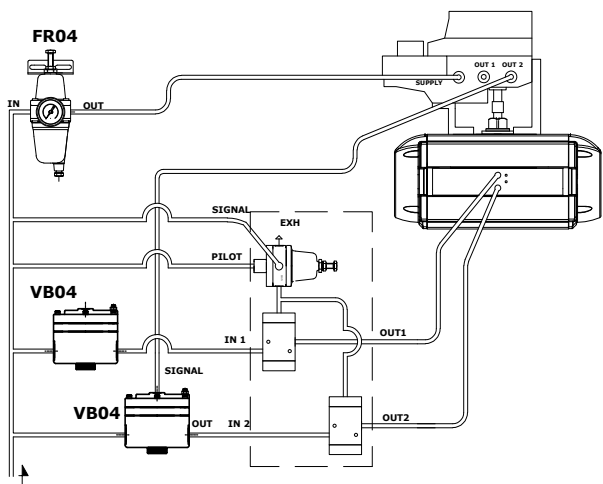
Single actuating actuator

Attuatore a singolo effetto



Double actuating actuator

Attuatore a doppio effetto



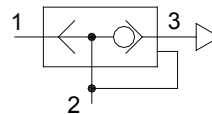
Copper free aluminum alloy quick exhaust valves - VSR serie

Valvole di scarico rapido in alluminio esente rame - serie VSR

Enables air to be exhausted quickly from air reservoirs and cylinders allowing higher cylinder speeds to be achieved. Simple, compact design and construction that grants for reliability in operations. Body in copper free aluminum alloy allows the use in environment with corrosive environments.

Choice of plastic materials make this product suitable for a wide range of working temperatures. Valves can be used in every position, but for a prompt fluid discharge it is suggested to connect them as near as possible to the cylinder.

Connection 1 is air inlet, connection 2 is air use and connection 3 is the exhaust.



- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X
- & approved II 2D Ex h IIIC T85°C/T100°C Db X
- SIL 3 - IEC 61508

Consentono un rapido scarico dell'aria da serbatoi e cilindri permettendo il raggiungimento di elevate velocità del cilindro.

Sistema e struttura semplici e compatti garantiscono un funzionamento altamente affidabile. Il corpo in alluminio esente rame consente l'utilizzo in ambienti corrosivi.

La scelta di differenti materiali plastici rendono utilizzabile questo prodotto in un'ampia gamma di temperature. Le valvole possono essere montate in qualunque posizione, ma per un'efficace evacuazione devono essere piazzate il più vicino possibile al cilindro.

La connessione 1 serve per l'alimentazione, la due è l'utilizzo e la 3 è lo scarico.

ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

- Approvato ed
- Approvato SIL 3 - IEC 61508

Technical features:

Caratteristiche tecniche:

- **Medium : compressed air or inert gases, filtered, lubricated and non lubricated**
Fluido : aria compressa o gas inerti, filtrata, lubrificata e non lubrificata
- **Operating pressure : 2/12bar - special execution available 18bar**
Pressione d'esercizio : 2/12bar - disponibile esecuzione speciale 18bar
- **Operating temperature : -20°C up to 80°C (NBR); -25°C up to 90°C (FKM);
-40°C up to 80°C (EPDM); -60°C up to 90°C (FVMQ / HNBR)**

Temperatura di esercizio: -20°C + 80°C (NBR); -25°C + 90°C (FKM)
-40°C + 80°C (EPDM); -60°C + 90°C (FVMQ / HNBR)

- **Materials : Body aluminum alloy; Element in PU or low temperature PU**

Materiali : Corpo in alluminio; elemento in PU o PU a bassa temperatura

MODEL MODELLO	THREAD FILETTO	Dn mm	ELEMENT MATERIALE	WP PN	CV IN	CV OUT
VSR02NAL*	1/8" NPT	8	PU or LT PU	2-12BAR	-	-
VSR04NAL*	1/4" NPT	8	PU or LT PU	2-12BAR	1.2	2.0
VSR06NAL*	3/8" NPT	10	PU or LT PU	2-12BAR	3.6	6.9
VSR08NAL*	1/2" NPT	12	PU or LT PU	2-12BAR	4.3	6.9
VSR12NAL*	3/4" NPT	19	PU or LT PU	2-12BAR	10.0	11.3
VSR16NAL*	1" NPT	19	PU or LT PU	2-12BAR	10.5	15.7

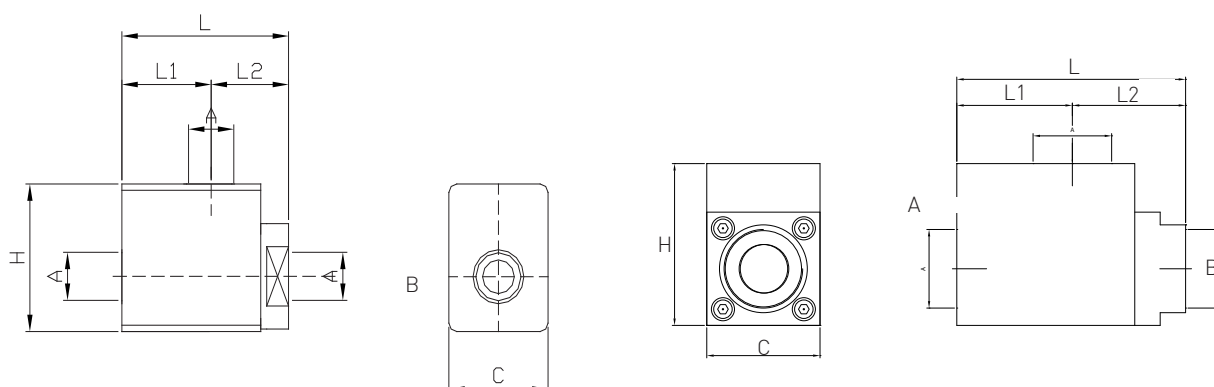
*Refers to seals type. Add:
 FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

Overall dimension

Dimensioni di ingombro

VSR02, VSR04

VSR06, VSR08, VSR12, VSR16



MODEL MODELLO	THREAD FILETTO	B	L mm	L1 mm	L2 mm	H mm	C mm
VSR02NAL*	1/8" NPT	1/4" NPT	42	22,5	19,5	35	25
VSR04NAL*	1/4" NPT	1/4" NPT	42	22,5	19,5	35	25
VSR06NAL*	3/8" NPT	1/2" NPT	56	33	23	53	40
VSR08NAL*	1/2" NPT	1/2" NPT	56	33	23	53	40
VSR12NAL*	3/4" NPT	3/4" NPT	99	50	49	70	49
VSR16NAL*	1" NPT	1" NPT	99	50	49	70	49

*Refers to seals type. Add:
 FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

SS316L quick exhaust valves - VSR serie

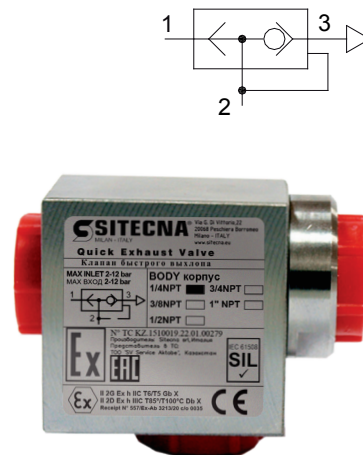
Valvole di scarico rapido in AISI316L - serie VSR

Enables air to be exhausted quickly from air reservoirs and cylinders allowing higher cylinder speeds to be achieved. Simple, compact design and construction that grants for reliability in operations. Corrosion resistant body in stainless steel 316L allows the use in high corrosive environment.

Choice of plastic materials make this product suitable for a wide range of working temperatures. Valves can be used in every position, but for a prompt fluid discharge it is suggested to connect them as near as possible to the cylinder.

Connection 1 is air inlet, connection 2 is air use and connection 3 is the exhaust.

- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved
- SIL 3 - IEC 61508 



Consentono un rapido scarico dell'aria da serbatoi e cilindri permettendo il raggiungimento di elevate velocità del cilindro.

Sistema e struttura semplici e compatti garantiscono un funzionamento altamente affidabile. Il corpo in AISI316L consente l'utilizzo in ambienti corrosivi.

La scelta di differenti materiali plastici rendono utilizzabile questo prodotto in un'ampia gamma di temperature. Le valvole possono essere montate in qualunque posizione, ma per un'efficace evacuazione devono essere piazzate il più vicino possibile al cilindro.

La connessione 1 serve per l'alimentazione, la 2 è l'utilizzo e la 3 è lo scarico.

ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

- Approvato  ed 
- Approvato SIL 3 - IEC 61508 

Technical features:

Caratteristiche tecniche:

- **Medium : compressed air or inert gases, filtered, lubricated and non lubricated**
Fluido : aria compressa o gas inerti, filtrata, lubrificata e non lubrificata
- **Operating pressure : 2/12bar - special execution available 18bar**
Pressione d'esercizio : 2/12bar - disponibile esecuzione speciale 18bar
- **Operating temperature : -20°C up to 80°C (NBR); -25°C up to 90°C (FKM)**
-40°C up to 80°C (EPDM); -60°C up to 90°C (FVMQ / HNBR)
Temperatura di esercizio: -20°C + 80°C (NBR); -25°C + 90°C (FKM)
-40°C + 80°C (EPDM); -60°C + 90°C (FVMQ / HNBR)
- **Materials : Body SS316L; Element in PU or Element in PU or low temperature PU**
Materiali : Corpo in AISI316L; elemento in PU o PU bassa temperatura