

Grow with the flow.

Vesta PV32 Series

HIGH FLOW 3/2 POPPET VALVES FOR AIR AND VACUUM
VALVOLE AD OTTURATORE 3/2 ALTA PORTATA ARIA E VUOTO





DESCRIPTION / DESCRIZIONE

PV32 Series of Vesta valves are developed to provide fast switching times and high flow rates. Available in all sizes, from G 1/8" to G 2", they can be used for both air and vacuum control, with different options for pilot system. The hard-resistance painted die-cast bodies guarantee protection against hard environment; the poppet system allows for flow rates up to 60,000 NL/min on the G 2" size. Long life - even in heavy applications - is given by the **innovative diaphragm technology**, with a shape designed for maximum protection and minimum operative stress. Version for high and low temperatures are available, with special aluminium piston to grant extreme endurance.

Le valvole Vesta della **Serie PV32** sono pensate per fornire commutazioni rapide e portate elevate. Disponibili in tutte le dimensioni, da G 1/8" a 2 pollici, possono essere utilizzate sia per aria che per vuoto, con diverse opzioni di pilotaggio. I corpi pressofusi verniciati ad alta resistenza garantiscono protezione; il sistema a otturatore consente portate fino a 60.000 NL/min, sulla taglia 2 pollici. La lunga vita - anche in applicazioni gravose - è garantita da una **tecnologia innovativa per la membrana**, la cui forma offre massima protezione e minimo stress operativo. Sono disponibili versioni per alte e basse temperature, con il pistone in alluminio per garantire lunga durata.

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

N.C and N.O functions / Funzioni N.C e N.O	Solenoid or pneumatic operator / pilotaggio pneumatico o elettropneumatico
External pilot air supply / Alimentazione pilotaggio esterna	Vacuum or low pressure inlet ai / Vuoto o bassa pressione
Temperature range / Temperatura	from -20°C to +60°C / da -20°C a +60°C *
Pressure range / Pressione di esercizio	3-10 bar
Lubrication / Lubrificazione	Not required / Non necessaria
Flow rate / Portata	from 5.500 NI/min to 60.000 NI/min / fra 5.500 NI/min e 60.000 NI/min
Poppet seals / Guarnizioni otturatori	Polyurethane / Poliuretano
Pilot diaphragm / Membrana pilotaggio	Polyurethane / Poliuretano

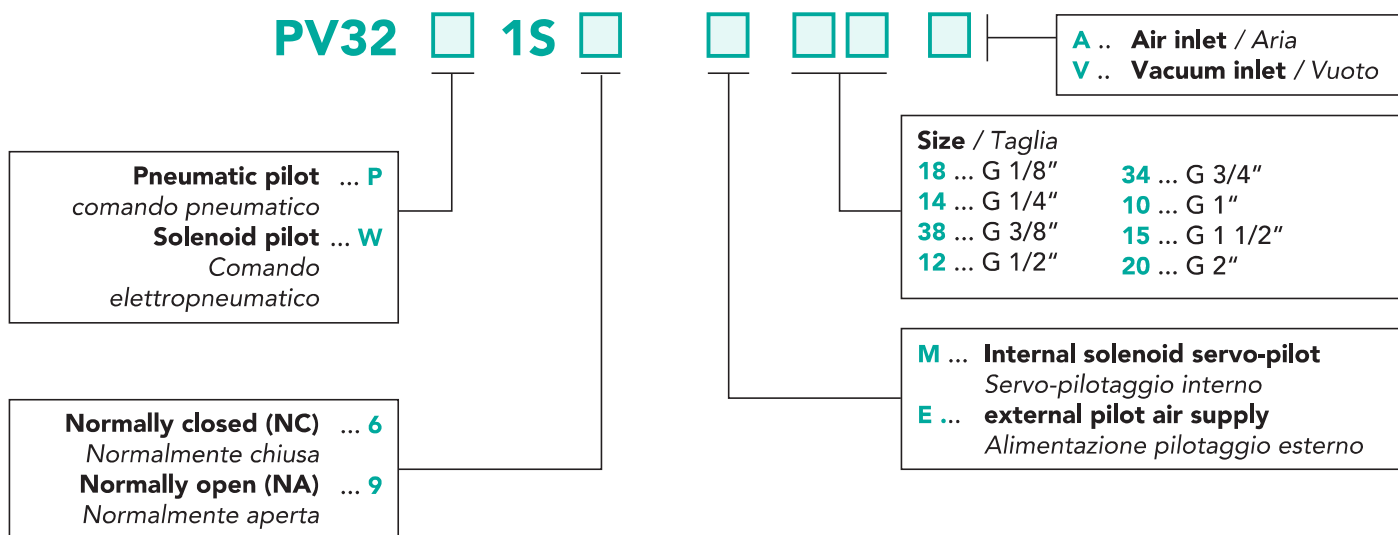
*High/low temp. and extreme environment: see on the back / Per alte/basse temp. ed ambienti estremi: vedere retro.

3/2 HIGH-FLOW POPPET VALVES VALVOLE A OTTURATORE 3/2 AD ALTA PORTATA

PV32

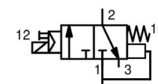
SERIE

ORDERING CODE / CODICE DI ORDINAZIONE



Servo-pilot valves with vacuum inlet to be used in vertical position

Le valvole servo-pilotate con vuoto vanno utilizzate in posizione verticale

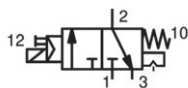


PV32W1S.M..V

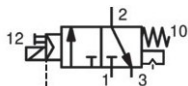
3/2 DOUBLE SOLENOID VERSIONS VERSIONI 3/2 BISTABILI

...W2S...

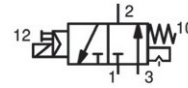
PV32W2S6M



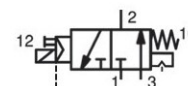
PV32W2S6E



PV32W2S9M

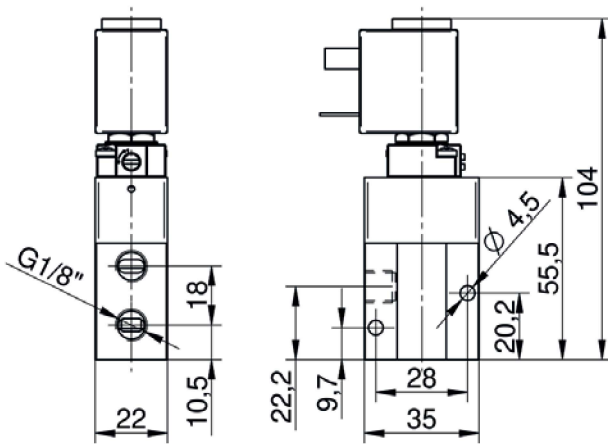


PV32W2S9E

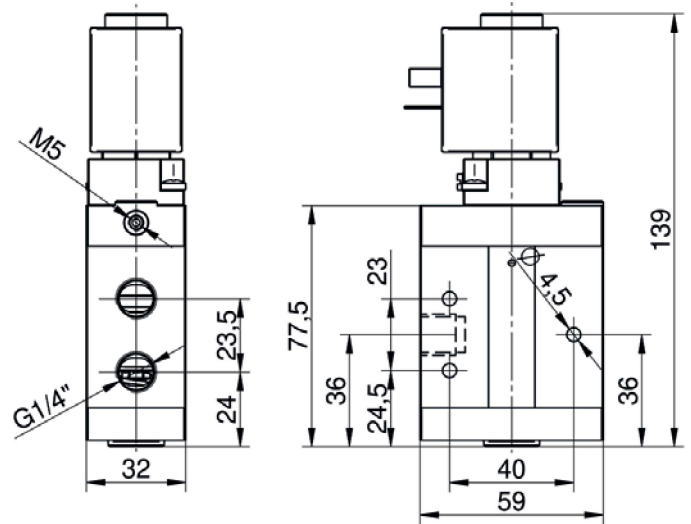


DIMENSIONS / DIMENSIONI

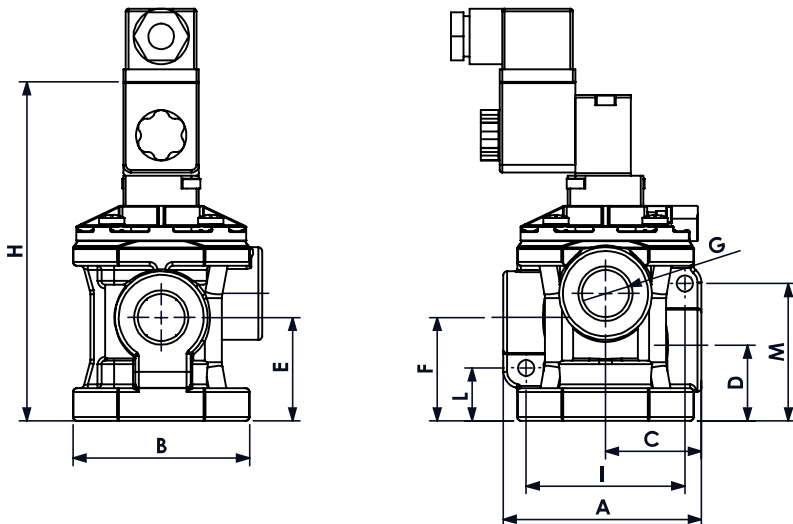
SIZE G1/8"



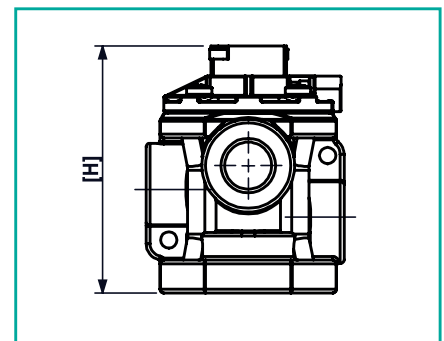
SIZE G1/4" - 3/8"



SIZE G1/2" - G2"



Pneumatic version
Pneumatic version



OVERALL DIMENSION / DIMENSIONI DI INGOMBRO (mm)

Size Taglia	A	B	C	D	E	F	G	H	I	L	M
G 1/2 "	78,5	75	35	30	41	50,5	G 1/2 "	128 [100]	63	21	24,5
G 3 / 4 "	78,5	75	35	30	41	50,5	G 3 / 4 "	128 [100]	63	21	24,5
G 1 "	101	94	45	38	51	64	G 1 "	144 [116]	76	25,51	62,5
G 1 1/2 "	158	138	84	68	68	98	G 1 1/2 "	193 [165]	113	34	113
G 2 "	210	183.5	79	92	92	129	G 2 "	265 [237]	150	48	152

3/2 HIGH-FLOW POPPET VALVES VALVOLE A OTTURATORE 3/2 AD ALTA PORTATA

PV32

SERIE

FLOW RATE (AIR AND VACUUM) / PORTATA (ARIA E VUOTO)

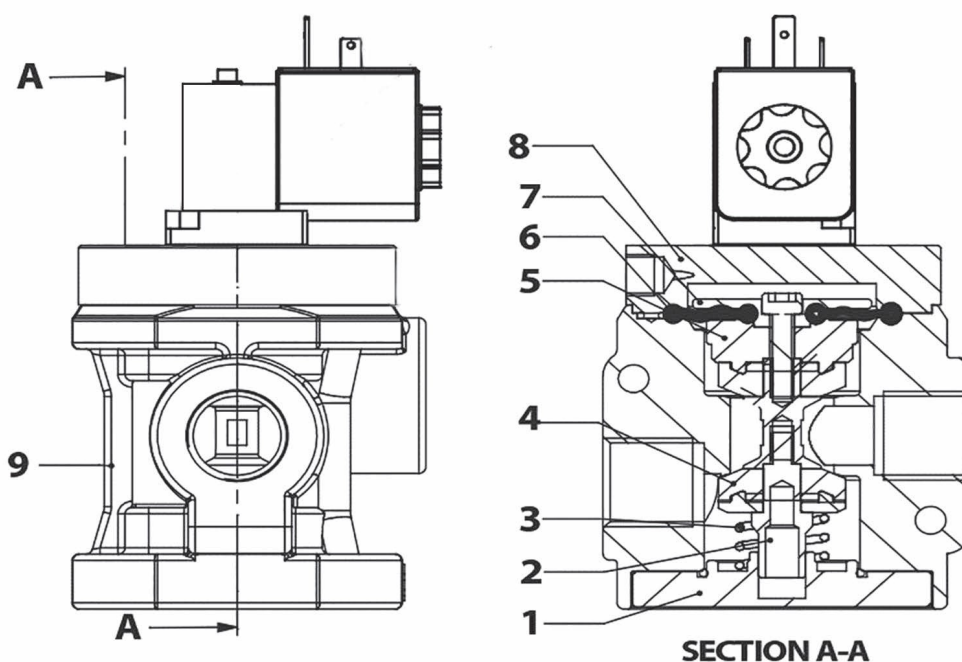
Size Taglia	G 1/4"	G 1/2"	G 3/4"
Air flow at 6 bar (NI/min)	1100	5500	6500
Vacuum flow at 755 mmHg (m 3/h)	4	20	35

Size Taglia	G 1"	G 1 1/2"	G 2"
Air flow at 6 bar (NI/min)	13500	35000	60000
Vacuum flow at 755 mmHg (m 3/h)	90	180	250

Vacuum flow to be considered as minimum required flow for functioning of servo-pilot vacuum valves.

La portata vuoto è da considerare come flusso minimo per il funzionamento delle valvole vuoto servo-pilotato.

MATERIALS / MATERIALI



Part Parte	Description Descrizione	Material Materiale
1	Bottom end cap	Alloy 11S
2	Shutter guide	Steel
3	Spring	Stainless Steel
4	Poppet	PU 85 SH
5	Piston	P.O.M.
6	Diaphragm	PU 85 SH
7	Piston Holder	Alloy 11S
8	Top end cap	Alloy 11S
9	Valve body	Alloy 11S

Class H coils
Solenoidi classe H

Special seals
Guarnizioni speciali

Aluminium piston
Pistone in alluminio



CODE / CODICE

... - HT

HIGH TEMPERATURE
ALTA TEMPERATURA

Ambient +80°C (fluid +150°C)
Ambiente +80°C (fluido +150°C)

... - LLT

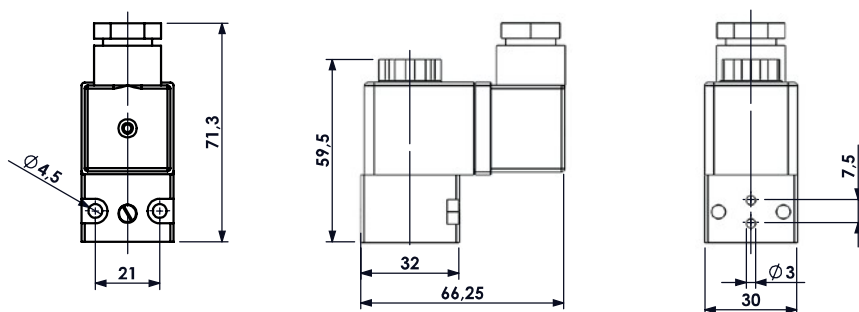
LOW TEMPERATURE
BASSA TEMPERATURA

Ambient -40°C (fluid -40°C)
Ambiente -40°C (fluido -40°C)

CARACTERISTICS / CARATTERISTICHE

FKM seals / *Guarnizioni Viton*
Silicon o-rings / *O-ring in silicone*
Aluminium piston / *Pistone in alluminio*
Metal operator / *Operatore in metallo*
H Class solenoid / *Bobine Classe H*

PU 85 sh seals / *Guarnizioni in poliuretano*
Silicon o-rings / *O-ring in silicone*
Aluminium piston / *Pistone in alluminio*
Metal operator / *Operatore in metallo*



ELCNU

CNOMO OPERATOR ELETTROPILOTA CNOMO

ELCNU-D

**Detent version
on request**
Versione a rotazione
su richiesta



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Flow section / Diametro nominale	Ø 1.2 m
Environment temperature range / Temperatura ambiente	-10 °C ÷ +50 °C
Lubrication / Lubrificazione	Not required / Non necessaria
Medium / Fluido	Filtered air / Aria filtrata
Operating pressure range / Pressione d'esercizio	0 ÷ 10 bar
Nominal air flow / Portata nominale	50 NI/min
Manual override / Operatore manuale	Brass - Push / Ottone - A spingimento

MS

COIL 22mm DIN43650B

Code / Codice	Voltage / Tensione
MS01200	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11550	115 V 50/60Hz AC
MS23050	230 V 50/60Hz AC
MS11000	115 V DC (6W)

CEP-1

CONNECTOR CONNETTORE

Description / Descrizione	Code / Codice	Voltage / Tensione
Universal connector Connettore universale	CEP-1	All tension / tutte le tensioni
Connector with led Connettore con led	CEP-1 L 10 / 50 CEP-1 L 70 / 250	10 / 50 V AC / DC 70 / 250 V AC / DC
Connector with led and varistor Connettore con led e varistore	CEP-1 LV 24 CEP-1 LV 110 CEP-1 LV 220	24 V AC / DC 115 V AC / DC 230 V AC / DC

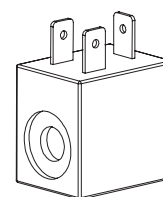
MS-OB1

COIL 22mm DIN43650B

Code / Codice	Voltage / Tensione
MS01200-OB1	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11550	115 V 50/60Hz AC
MS23050	230 V 50/60Hz AC
MS11000	115 V DC (6W)

PV32 size 1/8", 1/4" and 3/8" are supplied with coil: MS ... - OB1

Le valvole PV32 taglia 1/8", 1/4" e 3/8" sono fornite con bobine: MS ... - OB1



SCN

COIL 30mm DIN43650A

Code / Codice	Voltage / Tensione
SCN01200	12 V DC
SCN02400	24 V DC
SCN02450	24 V 50/60Hz AC
SCN011050 (*)	110 V 50/60Hz AC
SCN022050 (*)	220 V 50/60Hz AC
SCN023050 (*)	230 V 50/60Hz AC

CEP-2

CONNECTOR DIN43650C

Description / Descrizione	Code / Codice	Voltage / Tensione
Universal connector Connettore universale	CEP-2	All tension / tutte le tensioni
Connector with led Connettore con led	CEP-2 L 10 / 50 CEP-2 L 70 / 250	10 / 50 V AC / DC 70 / 250 V AC / DC
Connector with led and varistor Connettore con led e varistore	CEP-2 LV 24 CEP-2 LV 110 CEP-2 LV 220	24 V AC / DC 115 V AC / DC 220 V AC / DC