

# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and  
Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

Compact design and high performance

Flexible Sub-base system

True multipressure system

Sandwich regulators and flow controls

Dual spool technology

V40 Glandless spool and sleeve

V41 Softseal spool

Collected pilot exhaust with internal pilot air supply

Easy to convert from internal to external pilot supply

Shut-off plate allows for exchange of valves under pressure

## Technical Data

Medium

Compressed air, 40µm filtered, lubricated or non-lubricated

Operation

V40: Glandless spool valve, solenoid pilot or air pilot actuated

V41: Softseal spool valve, solenoid pilot or air pilot actuated

Mounting

On sub-bases

Size

ISO 15407-1 / VDMA 24 563, 18 mm

## Operating Pressure

Maximum pressure

145 psig (10 bar) V41 models and V40 solenoid pilot actuated valves with internal pilot supply

232 psig (16 bar) V40 solenoid pilot actuated valves with external pilot supply and V40 air pilot actuated valves

Flow Characteristics

Series	Function	Cv	l/min
V40	5/2	0.58	570
V40	5/3	0.62	610
V41*	2x3/2	1.62	610
V41*	5/2	0.66	650
V41*	5/3	0.69	680

Ambient Temperature

5°F\* to +122°F (-15°C\* to +50°C) V40/V41 sol. and V41 air pilot models

5°F\* to +176°F (-15°C\* to +80°C) V40 air pilot models

\*Consult our Application Engineering for use below 36°F (+2°C)

## Materials

Die cast aluminum body and sub-base. Hard anodized spool, Teflon coated, matched aluminum spool and sleeve(V40) or aluminum alloy spool with HNBR Seals (V41). POM plastic parts and NBR static seals. End cover and screws zinc plated, stainless steel springs.



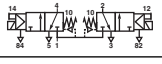

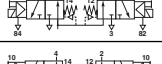

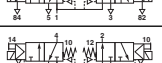

## Electrical Details for Solenoid Pilot

Voltage Tolerances	-10% / +15%
Rating	100% Continuous Duty
Inlet orifice	0.8 mm
Electrical Connection	DIN 43 650 table 'C'
Manual Override	Push and turn locking and non-locking
Protection Class	IP 65
	NEMA 4
Materials	PPS (body), Viton and NBR (seals)

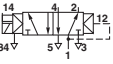
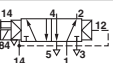
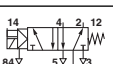
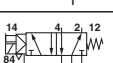
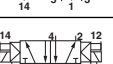



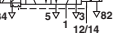
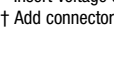


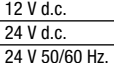
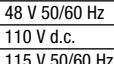
# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

## 2x3/2 Solenoid Pilot Actuated Valves (Softseal Spool only)

	Model	Function 2x3/2	Pilot Supply	Pilot Exhaust	Actuation 3/2 Function	Flow Cv	Operating Pres. psig	Pilot Pres. (psig)	Weight lb.	Repair Kit
	V415A11D-C3**†	NC	Internal	Collected	Sol/Spring	0.62	36 - 145	-	0.40	V70447-K50
	V415A22D-C3**†	NC	External	Not Collected	Sol/Spring	0.62	0 - 145	24.7+(0.35 x op.press.)	0.40	V70447-K50
	V415B11D-C3**†	NO	Internal	Collected	Sol/Spring	0.62	36 - 145	-	0.40	V70448-K50
	V415B22D-C3**†	NO	External	Not Collected	Sol/Spring	0.62	0 - 145	24.7+(0.35 x op.press.)	0.40	V70448-K50
	V415C11D-C3**†	NO/NC	Internal	Collected	Sol/Spring	0.62	36 - 145	-	0.40	V70449-K50
	V415C22D-C3**†	NO/NC	External	Not collected	Sol/Spring	0.62	0 - 145	24.7+(0.35 x op.press.)	0.40	V70449-K50

## 5/2 Solenoid Pilot Actuated Valves

	Model	Spool Techn.	Pilot Supply	Pilot Exhaust	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight lb.	Repair Kit
	V405513D-C3**†	GI	Internal	Collected	Solenoid	Air Spring	0.58	14.5 - 145	-	0.26	V70440-K50
	V415513D-C3**†	Ss	Internal	Collected	Solenoid	Air Spring	0.66	14.5 - 145	-	0.29	V70442-K50
	V405523D-C3**†	GI	External	Not collected	Solenoid	Air Spring	0.58	26" Hg - 232	14.5 - 145	0.26	V70440-K50
	V415523D-C3**†	Ss	External	Not collected	Solenoid	Air Spring	0.66	26" Hg - 145	14.5 - 145	0.29	V70442-K50
	V405516D-C3**†	GI	Internal	Collected	Solenoid	Spring & air	0.58	23.2 - 145	-	0.29	V70440-K50
	V415517D-C3**†	Ss	Internal	Collected	Solenoid	Spring	0.66	29 - 145	-	0.29	V70442-K50
	V405526D-C3**†	GI	External	Not collected	Solenoid	Spring & air	0.58	26" Hg - 232	23.2 - 145	0.29	V70440-K50
	V415527D-C3**†	Ss	External	Not collected	Solenoid	Spring	0.66	26" Hg - 145	29 - 145	0.29	V70442-K50
	V405511D-C3**†	GI	Internal	Collected	Solenoid	Solenoid	0.58	29 - 145	-	0.40	V70441-K50
	V415511D-C3**†	Ss	Internal	Collected	Solenoid	Solenoid	0.66	29 - 145	-	0.40	V70443-K50
	V405522D-C3**†	GI	External	Not collected	Solenoid	Solenoid	0.58	26" Hg - 232	29 - 145	0.40	V70441-K50
	V415522D-C3**†	Ss	External	Not collected	Solenoid	Solenoid	0.66	26" Hg - 145	29 - 145	0.40	V70443-K50
	V405591D-C3**†	GI	Internal	Collected	Solenoid (priority)	Solenoid	0.58	29 - 145	-	0.40	V70441-K50
	V405592D-C3**†	GI	External	Not collected	Solenoid (priority)	Solenoid	0.58	26" Hg - 232	29 - 145	0.40	V70441-K50

\*\* Insert voltage code from Table 1 "Voltage Codes and Spare Pilot Valves".

† Add connector code from Table 2 "Connector Codes and Part Number".

**Table 1**  
**\*\*Voltage Codes and Spare Pilot Valves**

Voltage	Code	Power Inrush / Hold	Pilot Valve Part.-no.
12 V d.c.	12	1.2 W	VZC7L2C1-C312A
24 V d.c.	13	1.2 W	VZC7L2C1-C313A
24 V 50/60 Hz.	14	2.1 / 1.5 VA	VZC7L2C1-C314A
48 V 50/60 Hz	16	2.1 / 1.5 VA	VZC7L2C1-C316A
110 V d.c.	17	1 W	VZC7L2C1-C317A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C318A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C319A

Other voltages available on request.

Spare pilot valves are delivered with mounting screws.

**Table 2**  
**†Connector Codes and Part Number**

Code	Part Number
A = Solenoid without connector	
B = Cable grip	V10027-D00
C = 10 ft. molded cable, 0-240 VAC/VDC	V10013-D03
H = Cable grip w/indicator light, 24 VAC/VDC	V10012-D13
J = Cable grip w/indicator light, 120 VAC/VDC	V10012-D18
5 = 10 ft. molded cable with indicator light, surge suppression, 24 VAC/VDC	V10014-D03
6 = 10 ft. molded cable with indicator light, 110V/50 Hz-120V.60Hz	V10015-D03

# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

## 5/3 Solenoid Pilot Actuated Valves

Model	Spool Techn.	Valve Function	Pilot Supply	Pilot Exhaust	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight lb.	Repair Kit
V405611D-C3**†	GI	APB	Internal	Collected	Solenoid	Solenoid	0.62	29 - 145	-	0.40	V70441-K50
V415611D-C3**†	Ss	APB	Internal	Collected	Solenoid	Solenoid	0.69	29 - 145	-	0.40	V70444-K50
V405622D-C3**†	GI	APB	External	Not collected	Solenoid	Solenoid	0.62	26" Hg - 232	29 - 145	0.40	V70441-K50
V415622D-C3**†	Ss	APB	External	Not collected	Solenoid	Solenoid	0.69	26" Hg - 145	29 - 145	0.40	V70444-K50
V405711D-C3**†	GI	COE	Internal	Collected	Solenoid	Solenoid	0.62	29 - 145	-	0.40	V70441-K50
V415711D-C3**†	Ss	COE	Internal	Collected	Solenoid	Solenoid	0.69	29 - 145	-	0.40	V70441-K50
V405722D-C3**†	GI	COE	External	Not collected	Solenoid	Solenoid	0.62	26" Hg - 232	29 - 145	0.40	V70441-K50
V415722D-C3**†	Ss	COE	External	Not collected	Solenoid	Solenoid	0.69	26" Hg - 145	29 - 145	0.40	V70445-K50
V405811D-C3**†	GI	COP	Internal	Collected	Solenoid	Solenoid	0.62	29 - 145	-	0.40	V70441-K50
V415811D-C3**†	Ss	COP	Internal	Collected	Solenoid	Solenoid	0.69	29 - 145	-	0.40	V70446-K50
V404822D-C3**†	GI	COP	External	Not collected	Solenoid	Solenoid	0.62	26" Hg - 232	29 - 145	0.40	V70441-K50
V415822D-C3**†	Ss	COP	External	Not collected	Solenoid	Solenoid	0.69	26" Hg - 145	29 - 145	0.40	V70446-K50

\*\* Insert voltage code from Table 1 "Voltage Codes and Spare Pilot Valves".

† Add connector code from Table 2 "Connector Codes and Part Number".

**Table 1**  
\*\*Voltage Codes and Spare Pilot Valves

Voltage	Code	Power Inrush / Hold	Pilot Valve Part.-no.
12 V d.c.	12	1.2 W	VZC7L2C1-C312A
24 V d.c.	13	1.2 W	VZC7L2C1-C313A
24 V 50/60 Hz.	14	2.1 / 1.5 VA	VZC7L2C1-C314A
48 V 50/60 Hz	16	2.1 / 1.5 VA	VZC7L2C1-C316A
110 V d.c.	17	1 W	VZC7L2C1-C317A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C318A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C319A

Other voltages available on request.

Spare pilot valves are delivered with mounting screws.

**Table 2**  
†Connector Codes and Part Number

Code	Part Number
A = Solenoid without connector	
B = Cable grip	V10027-D00
C = 10 ft. molded cable, 0-240 VAC/VDC	V10013-D03
H = Cable grip w/indicator light, 24 VAC/VDC	V10012-D13
J = Cable grip w/indicator light, 120 VAC/VDC	V10012-D18
5 = 10 ft. molded cable with indicator light, surge suppression, 24 VAC/VDC	V10014-D03
6 = 10 ft. molded cable with indicator light, 110V/50 Hz-120V.60Hz	V10015-D03

## 2x3/2 Air Pilot Actuated Valves (Softseal Spool)

Model	Function 2x3/2	Actuation 3/2 Function	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Spares Kit
V415A33A-X0020	NC	Air/Spring	0.62	0 - 145	24.7 + (0.35 x op. pressure)	0.26	V70447-K50
V415B33A-X0020	NO	Air/Spring	0.62	0 - 145	24.7 + (0.35 x op. pressure)	0.26	V70448-K50
V415C33A-X0020	NO/NC	Air/Spring	0.62	0 - 145	24.7 + (0.35 x op. pressure)	0.26	V70449-K50

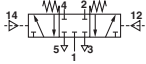
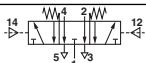
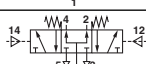
## 5/2 Air Pilot Actuated Valves

Model	Spool Techn.	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Repair Kit
V405537A-X0090	GI	Air	Spring	0.58	26" Hg - 232	23.2 - 232	0.24	V70440-K50
V415537A-X0090	Ss	Air	Spring	0.66	26" Hg - 145	29 - 145	0.22	V70442-K50
V405533A-X0020	GI	Air	Air	0.58	26" Hg - 232	29 - 232	0.24	V70441-K50
V415533A-X0020	Ss	Air	Air	0.66	26" Hg - 145	29 - 145	0.24	V70443-K50
V405533A-X0020	GI	Air (priority)	Air	0.58	26" Hg - 232	29 - 232	0.24	V70441-K50

# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

## 5/3 Air Pilot Actuated Valves

	Model	Spool	Valve Function	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Spares Kit
	V405633A-X0020	GI	APB	Air	Air	0.62	26" Hg - 232	29 - 232	0.24	V70441-K50
	V415633A-X0020	Ss	APB	Air	Air	0.69	26" Hg - 145	36 - 145	0.26	V70444-K50
	V405733A-X0020	GI	COE	Air	Air	0.62	26" Hg - 232	29 - 232	0.24	V70441-K50
	V415733A-X0020	Ss	COE	Air	Air	0.69	26" Hg - 145	36 - 145	0.26	V70445-K50
	V405833A-X0020	GI	COP	Air	Air	0.62	26" Hg - 232	29 - 232	0.24	V70441-K50
	V415833A-X0020	Ss	COP	Air	Air	0.69	26" Hg - 145	36 - 145	0.26	V70446-K50

## Bases

Single Station Sub-base Side Ported w/ Pilot Ports	Modular Sub-base Side Ported w/o Pilot Ports	Modular Sub-base Side* Ported with Pilot Ports	Modular Sub-base Side Ported (PIF) w/o Pilot Ports	Modular Sub-base Side* Ported (PIF) with Pilot Ports
V70401-P5B (1/8 NPTF)	V70425-P5F (1/8 NPTF)	V70426-P5F (1/8 NPTF)	V70425-15F (ø1/4")	V70426-15F (ø1/4")
V70401-A5B (G1/8)	V70425-A5F (G1/8)	V70426-A5F (G1/8)	V70425-85F (ø8 mm)	V70426-85F (ø8 mm)
			V70425-65F (ø6 mm)	V70426-65F (ø6 mm)

\*Use with air pilot valves

End Plate Kit End Ported	Double Station Modular Sub-base Side Ported without Pilot Ports	End Plate Kit with 2 Side Ported Valve Stations without Pilot Ports	Fixed Length Sub-base Bottom Ported
V70424-R5C (1/4 NPTF)	V70432-P5F (1/8 NPTF)	V70431-P5F (1/4, 1/8 NPTF)	V704**-P50 (1/8 NPTF)
V70424-B5C (G1/4)	V70432-A5F (G1/8")	V70431-A5F (G1/4, G1/8)	** = 02,04,06,08,10,12 stations

Intermediate Supply/Exhaust Module	Single Valve Shut-Off Plate	Sandwich Plate with additional Pressure Port 1	Single Pressure Regulator Plate	Double Pressure Regulator Plate
V70429-P50 (1/8 NPTF)	V70430-K50 (Port 1 open/closed)	V70435-P50 (1/8 NPTF)	V70427-K51 (Port 1 reg.)	V70427-K54 (Ports 2+4 reg.)
V70429-A50 (G1/8)			V70427-K52 (Port 2 reg.)	
			V70427-K53 (Port 4 reg.)	

Flow Control Plate	Blanking Plate for unused Station	DIN EN 50 Q22 rail (1 metre)	DIN-rail Mounting Kit	Blanking Disk to Modular Sub-base
V70428-K50 (Ports 3+5 reg.)	V70400-K50	V10009-C00 (35x7.5mm)	V70531-KA0	V70422-K50 (1 each) (Ports 1,3,5)
		V10592-C01 (35x15mm)		V70423-K50 (1 each) (Ports 12+14)

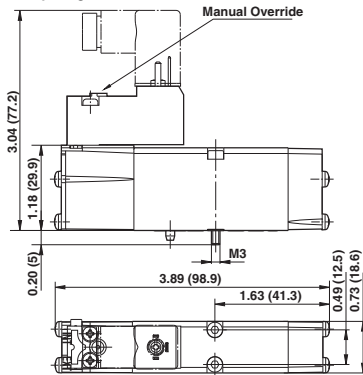
Blanking Plug for	Manual Override Set-Up Kit	Transition Plate #18 mm → #26 mm	Transition Plate #18 mm → #26 mm w/ supply and exhaust ports
Fixed Length Sub-base	V70532-K00	V70436-K00	V70436-R00 (1/4 NPTF)
V70421-K50 (Ports 1,3,5)			V70436-B00 (G1/4)

# V40/V41 Mini ISO Star Valves

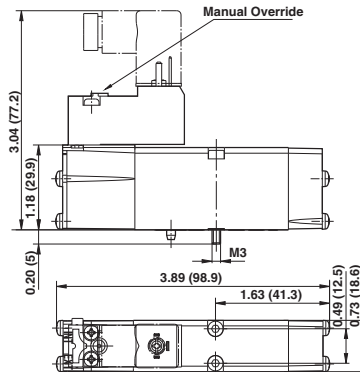
2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

All Dimensions in Inches (mm)

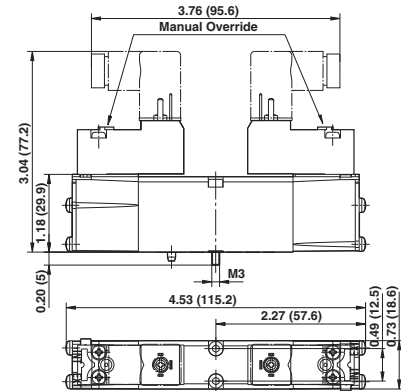
V4055\*3D-C3\*\*\* and V4155\*3D-C3\*\*\* Models  
5/2 Single Solenoid Pilot Valve  
Air Spring Return



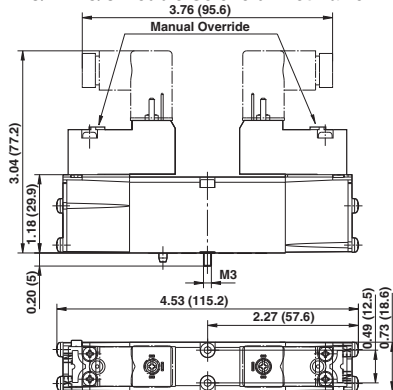
V4055\*6D-C3\*\*\* and V4155\*7D-C3\*\*\* Models  
5/2 Single Solenoid Pilot Valve  
Mechanical (& Air) Spring Return



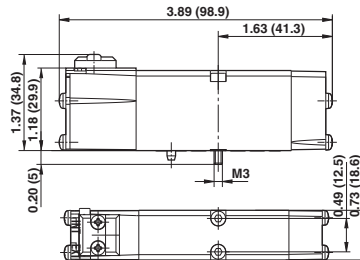
V4055\*\*D-C3\*\*\* and V4155\*\*D-C3\*\*\* Models  
5/2 Double Solenoid Pilot Valve



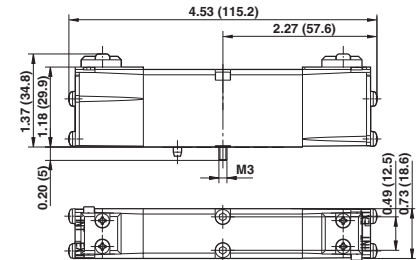
V405\*\*\*D-C3\*\*\* and V415\*\*\*D-C3\*\*\* Models  
2x3/2 + 5/3 Double Solenoid Pilot Valve



V415537A-X0090  
5/2 Single Air Pilot Valve



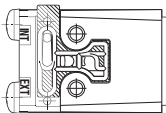
V405537A-X0090 5/2 Single Air Pilot Valve  
V405\*33A-X00\*0 and V415\*33A-X00\*0 Models  
2x3/2, 5/2 + 5/3 Double Air Pilot Valve



## Conversion from internal to external pilot supply / Collected pilot exhaust

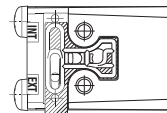
The lowered and captive gasket between valve body and pilot valve defines and indicates pilot air supply as well as pilot exhaust function of the valve.

Solenoid pilot actuated valves



blue gasket

Drawing shows no pilot valve.



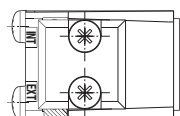
blue gasket

**Internal pilot supply, pilot exhaust air collected and exhausted via port 14.**

All solenoid pilot valves with code 1 at position 6 in the part number (e.g. V41551...) have the gasket mounted in this position on delivery.

Note: Dismounting pilot valve gives access to gasket. Conversion from internal to external pilot supply (or vice versa) by turning the gasket. Caution: In this case part number and symbol on label shows different function. Therefore check gasket position when mounting valve.

Air pilot actuated valves

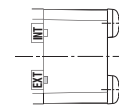
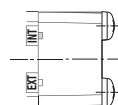


blue gasket

**Air pilot actuated valves**

External pilot supply.

5/2 Solenoid pilot actuated valves with air spring return  
Drawing shows end cap side 12.



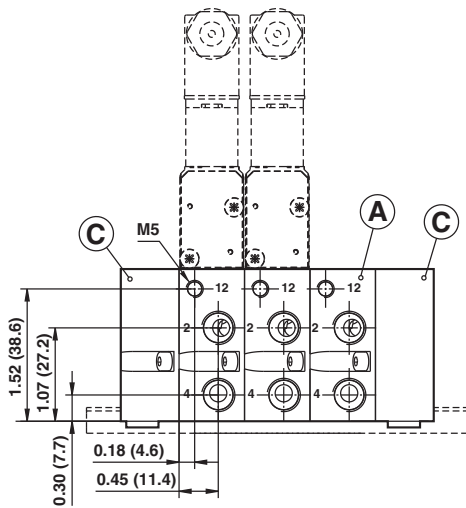
Note: Additional to above described work, gasket between end cap and valve body must be turned too at valves with this function.

For detailed instructions see Installation- and Maintenance Sheet.

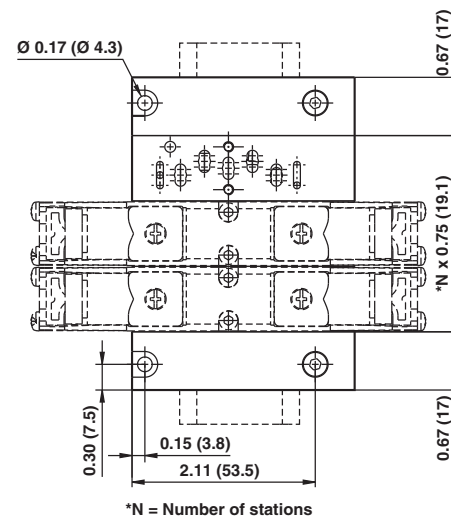
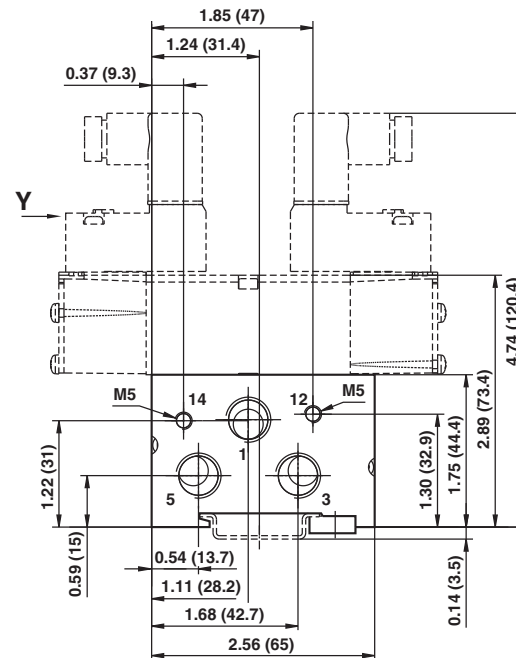
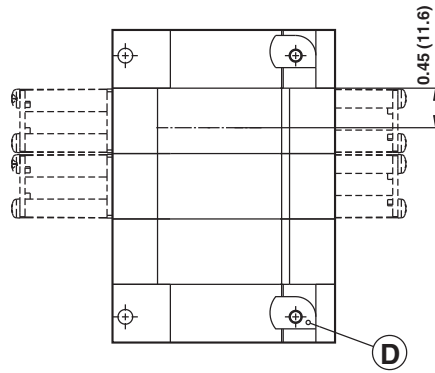
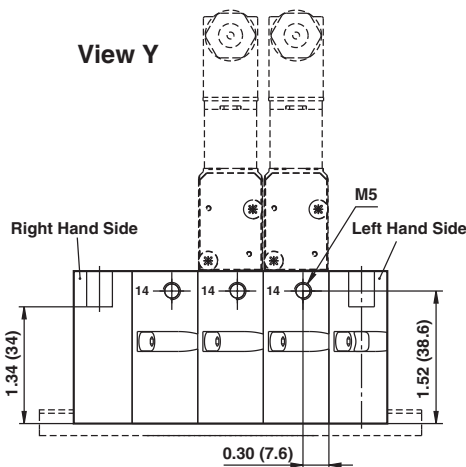
# V40/V41 Mini ISO Star Valves

## Modular Subbases parts for DIN rail or surface mounting

### Side ported subbase



### Side ported sub-base



\*N = Number of stations

## Individual components

- Modular Subbase (A) 0.26 lb (0.12 kg)
- Ports 2+4 on side (0.12 kg)
- V70425-x5F**
- Double Station
- Modular Subbase 0.53 lb (0.24 kg)
- Ports 2+4 on side (0.24 kg)
- V70432-y5F**
- Modular Subbase (A) 0.26 lb (0.12 kg)
- Ports 2+4 on side (0.12 kg)
- Pilot Ports 12+14 on side
- V70426-x5F**

- End Plate Kit (C) 0.46 lb (0.21 kg)
- End Ported (0.21 kg)

- V70424-B5C** (G1/4)
- V70424-R5C** (1/4NPTF)
- End ported end caps
- 1 left hand and 1 right hand

- End Plate Kit with Valve Station
- Ports 2+4 on side 0.88 lb (0.4 kg)
- V70431-A5F** (1/3/5 G1/4, 2/4 G1/8)
- V70431-P5F** (1/3/5 1/4NPTF, 2/4 1/8NPTF)

- End ported end caps
- 1 left hand and 1 right hand

## Accessories

- DIN EN 50022 rail 35 x 7.5 mm, 1m 0.68 lb (0.31 kg)
- V10009-C00**
- DIN EN 50022 rail 35 x 15 mm, 1m 2.25 lb (1.02 kg)
- V10592-C01**

- DIN rail Mounting Kit (D) 0.02 lb (0.01 kg)
- V70531-KA0**

- Blanking Disk to Modular Subbase 0.02 lb (0.01 kg)
- Ports 1, 3, 5
- V70422-K50**

- Blanking Disk to Modular Subbase 0.02 lb (0.01 kg)
- Ports 12+14
- V70423-K50**

x/y = Insert port type from table below

Code x	Code y	Ports 2+4	Ports 12+14
A	A	G1/8	M5
P	P	1/8 NPTF	M5
8	-	ø 8 mm PIF	M5
6	-	ø 6 mm PIF	M5
1	-	ø 1/4" PIF	M5

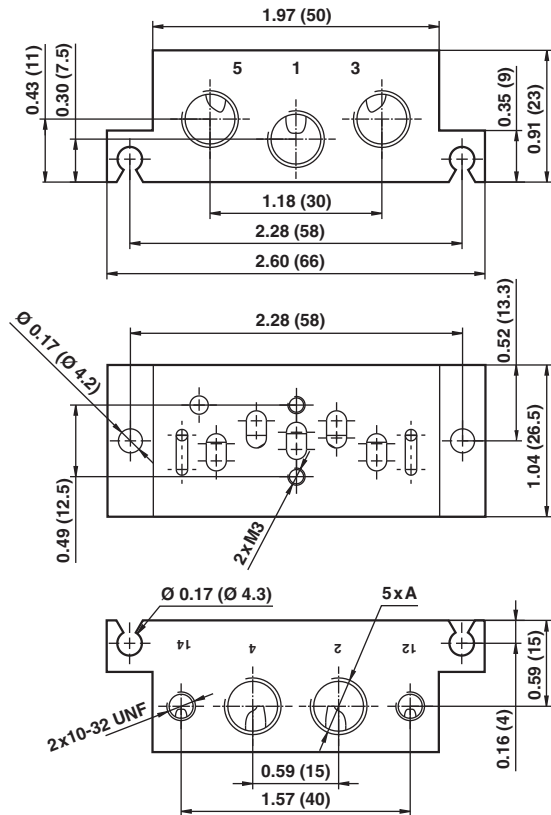
## Note:

Port 14 either used for external pilot air supply or for collected pilot air exhaust. Therefore, **never plug port 14 when using valves with internal pilot air supply.** Port 12 is not used, plugging not necessary.

# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

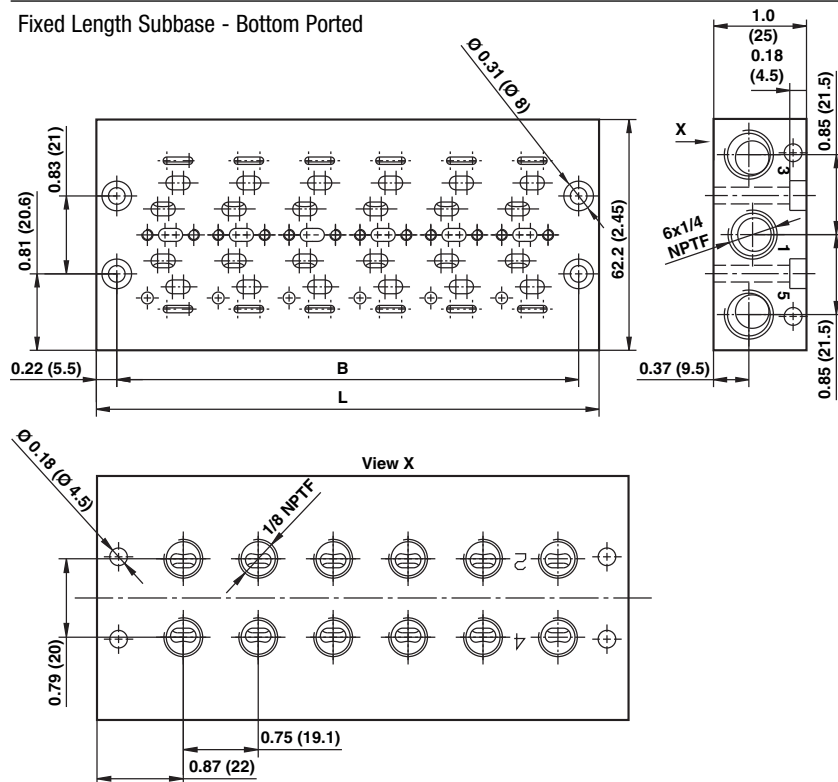
## Single Station Subbase - Side Ported with Pilot Ports



Model	Port Size A	Weight lb (kg)
V70401-P5B	1/8NPTF Side Ported with Pilot Ports	0.18
V70401-A5B	G1/8 Side Ported with Pilot Ports	(0.08)

Note: Pilot Ports for both types = 10-32 UNF

## Fixed Length Subbase - Bottom Ported



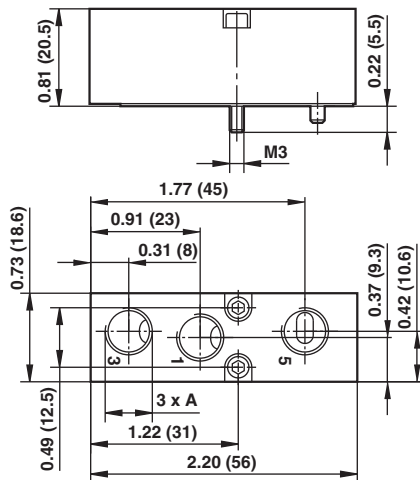
Model	No. of Stations	A inch (mm)	B inch (mm)	Weight lb (kg)
V70402-P50	2	2.33 (59.1)	1.89 (48.1)	0.40 (0.18)
V70404-P50	4	3.83 (97.3)	3.40 (86.3)	0.66 (0.30)
V70406-P50	6	5.34 (135.5)	4.90 (124.5)	0.93 (0.42)
V70408-P50	8	6.84 (173.7)	6.41 (162.7)	1.19 (0.54)
V70410-P50	10	8.34 (211.9)	7.91 (200.9)	1.46 (0.66)
V70412-P50	12	9.85 (250.1)	9.41 (239.1)	1.72 (0.78)

Note: This subbase is suitable for solenoid pilot actuated valves with internal pilot air supply only.

# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

## Intermediate Supply / Exhaust Module



Model	Port Size A	Weight lb (kg)
V70429-P50	1/8NPTF	0.11
V70429-A50	G1/8	(0.05)

Provides additional porting on Modular- or Fixed Length Sub-base.

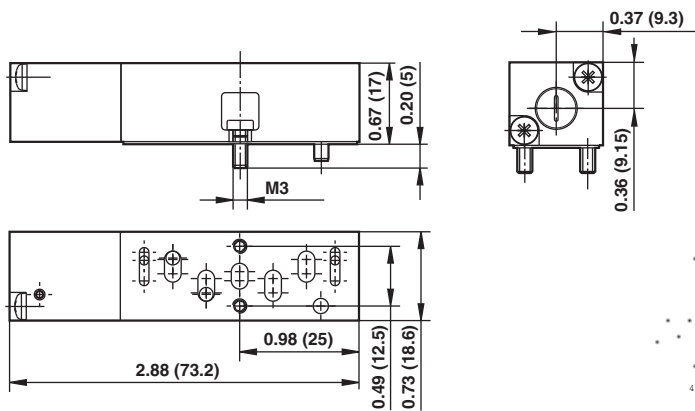
Occupies one valve station.

Supplied with gasket for both sub-bases.

Can be used to:

- Improve supply flow
- Increase exhaust capacity
- Pneumatically separate valves for fail safe emergency
- Multipressure system and system solutions

## Single Valve Shut-Off Plate

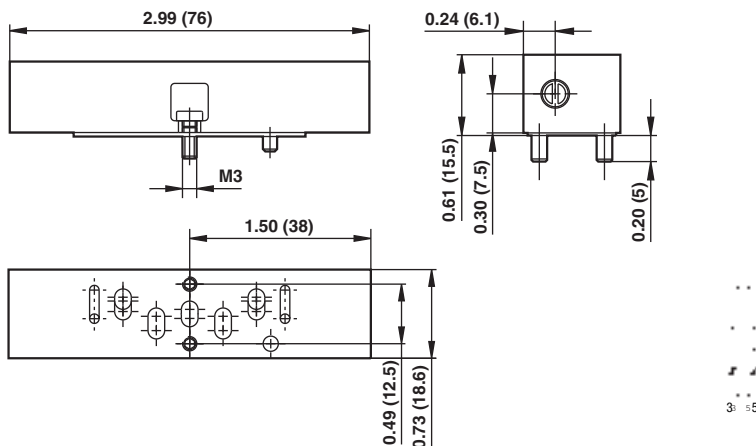


Model	Description	Weight lb (kg)
V70430-K50	Single Shut-Off Plate supplied with gasket	0.13 (0.06)

Allows individual exchange of valve, while valve manifold is pressurized by port 1.

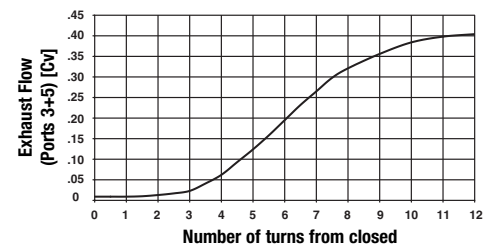
Note: Flow restricted to maximum .24 Cv

## Sandwich Flow Control



Model	Description	Weight lb (kg)
V70428-K50	Flow Control supplied with gasket	0.13 (0.06)

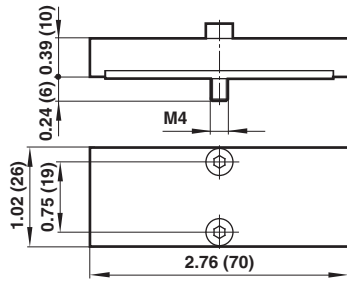
## Dual Regulation of Exhaust Ports 3 and 5



Flow: Port 1 → 2 and 1 → 4: remains unchanged  
Flow measured at 6 bar inlet, Pressure drop 1 bar

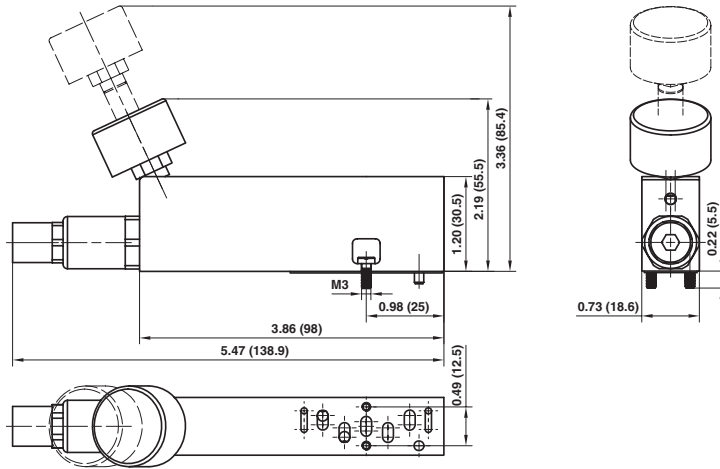
# V40/V41 Mini ISO Star Valves

Blanking Plate

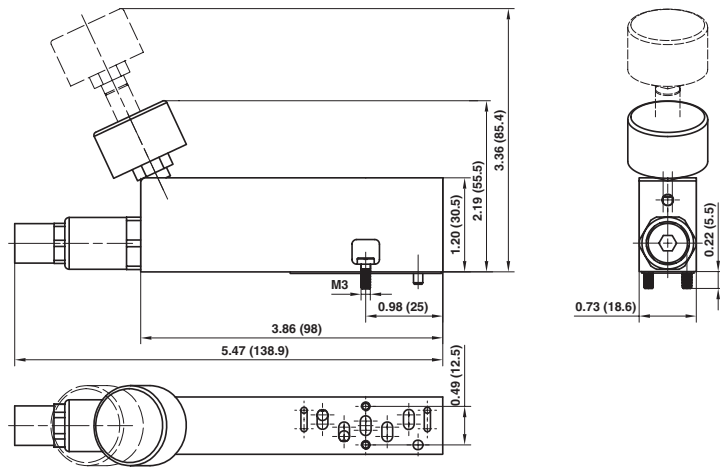
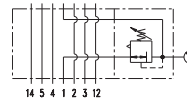


Model	Description	Weight lb (kg)
V70400-K50	Blanking Plate for blocking of unused Stations (supplied with gasket)	0.04 (0.02)

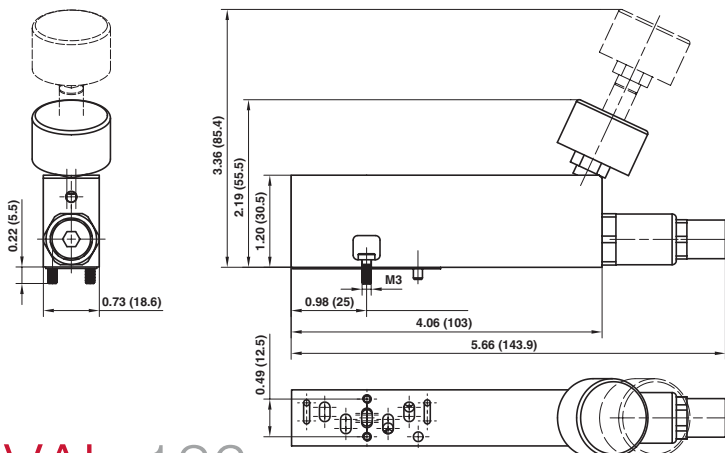
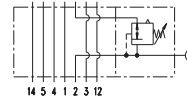
Pressure Regulator Plates (including gauge and adapter tube)



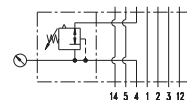
Model	Description	Weight lb (kg)
V70427-K51	Regulation of Port 1	0.46 (0.21)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)



Model	Description	Weight lb (kg)
V70427-K52	Regulation of Port 2	0.46 (0.21)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)



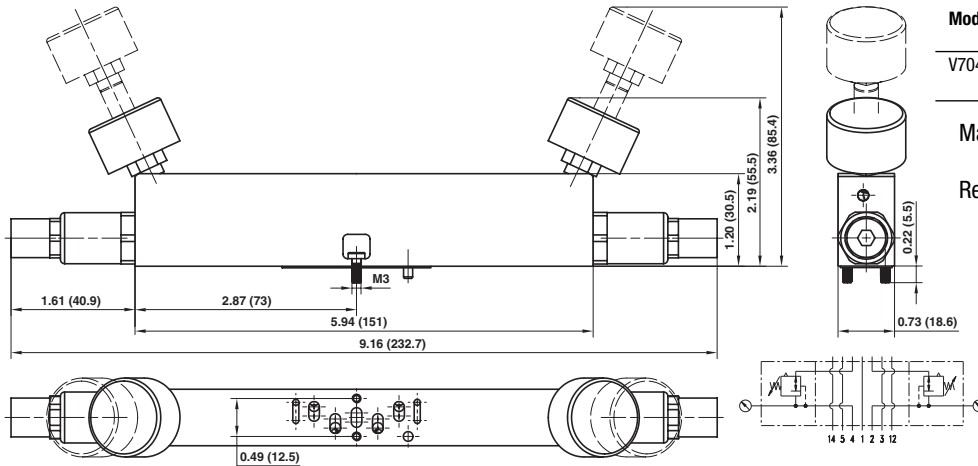
Model	Description	Weight lb (kg)
V70427-K53	Regulation of Port 4	0.46 (0.21)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)



# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

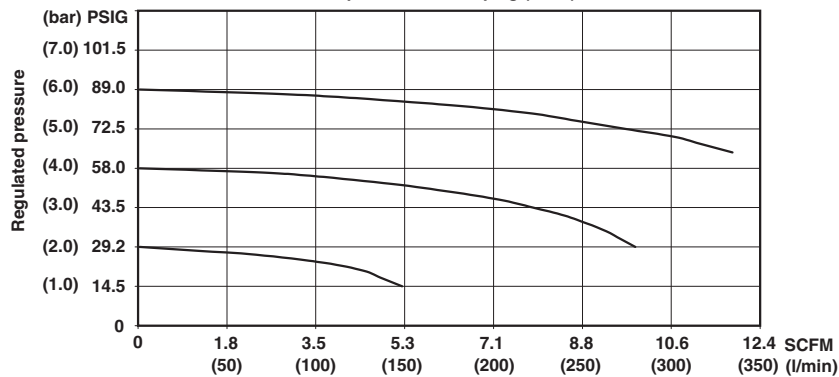
Dual regulator



Model	Description	Weight lb (kg)
V70427-K54	Regulation of Ports 2+4	0.79 (0.36)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)

Flow Characteristics for  
Pressure Regulator Plates

Inlet pressure = 116 psig (8 bar)

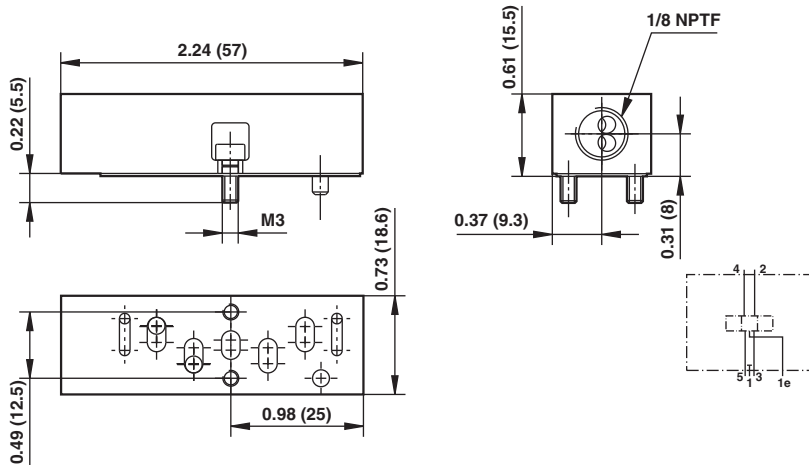


# V40/V41 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 18 mm

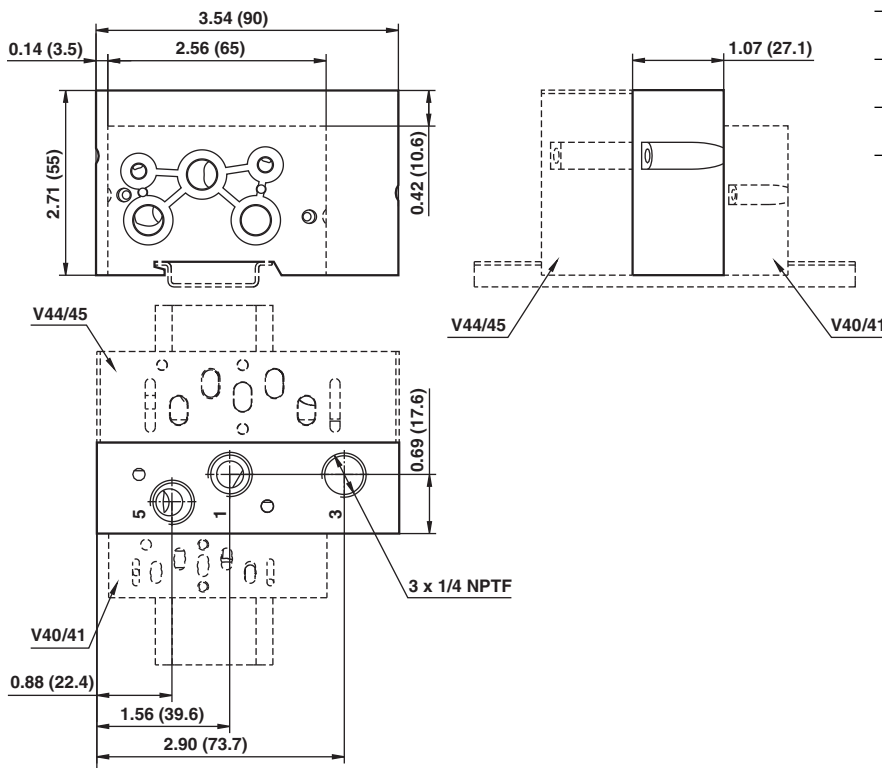
Sandwich Plate with additional Pressure Port 1

Model	Description	Weight lb (kg)
V70435-P50	Sandwich Plate with additional Port 1, supplied with gasket	0.09 (0.04)



Transition Plate #18 mm to #26 mm

Model	Description	Port 1/3/5	Weight lb (kg)
V70436-K00	Transition Plate # 18 – # 26 mm	without Ports 1/3/5	0.71 (0.32)
V70436-R00	Transition Plate # 18 – # 26 mm	1/4 NPTF	0.68 (0.31)
V70436-B00	Transition Plate # 18 – # 26 mm	G1/4	0.68 (0.31)



# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

- Compact design and high performance
- Flexible Sub-base system
- True multipressure system (including vacuum)
- Sandwich regulators and flow controls
- Dual spool technology
  - V44 Glandless spool and sleeve
  - V45 Softseal spool

- Collected pilot exhaust with internal pilot air supply
- Easily converted from internal to external pilot supply
- Sandwich plate allows for exchange of valves under pressure
- Shutoff plate allows for exchange of valves under pressure

## Technical Data

- Medium
- Compressed air, 40µm filtered, lubricated or non-lubricated
- Operation
  - V44: Glandless spool valve, solenoid pilot or air pilot actuated
  - V45: Softseal spool valve, solenoid pilot or air pilot actuated
- Mounting
  - On sub-bases
- Size
  - ISO 15407-1 / VDMA 24 563, 26 mm

## Operating Pressure

- Maximum pressure
  - 145 psig (10 bar) V45 models and V44 solenoid pilot actuated valves with internal pilot supply
  - 232 psig (16 bar) V44 solenoid pilot actuated valves with external pilot supply and V44 air pilot actuated valves

## Flow Characteristics

Series	Function	Cv	l/min
V44	5/2	0.92	900
V44	5/3	0.92	900
V45	5/2	1.22	1200
V45	5/3	1.17	1150
V45	2x3/2	1.17	1150

## Ambient Temperature

- 5°F\* to +122°F (-15°C\* to +50°C) V44/V45 sol. and V45 air pilot models
- 5°F\* to +176°F (-15°C\* to +80°C) V44 air pilot models

\*Consult our Application Engineering for use below 36° F (+2°C)

## Materials

Die cast aluminum body and sub-base. Hard anodized spool, Teflon coated, matched aluminum spool and sleeve(V44) or aluminum alloy spool with HNBR Seals (V45). POM plastic parts and NBR static seals. End cover and screws zinc plated, stainless steel springs.



## Electrical Details for Solenoid Pilot

Voltage Tolerances	-10% / +15%
Rating	100% Continuous Duty
Inlet orifice	0.8 mm
Electrical Connection	DIN 43 650 table 'C'
Manual Override	Push-turn locking and non-locking
Protection Class	IP 65 NEMA 4
Materials	PPS (body), Viton and NBR (seals)

# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

## 2x3/2 Solenoid Pilot Actuated Valves (Softseal Spool only)

Model	Function 2x3/2	Pilot Supply	Pilot Exhaust	Actuation 3/2 Function	Flow Cv	Operating Pres. psig	Pilot Pres. (psig)	Weight lb.	Repair Kit
V45AA11D-C3**†	NC	Internal	Collected x	Sol/Spring	1.1	43.5 - 145	-	0.53	V70546-KAO
V45AA22D-C3**†	NC	External	Not Collected	Sol/Spring	1.1	0 - 145	21.7+(0.5xop.press.)	0.53	V70546-KAO
V45AB11D-C3**†	NO	Internal	Collected x	Sol/Spring	1.0	43.5 - 145	-	0.53	V70547-KAO
V45AB22D-C3**†	NO	External	Not Collected	Sol/Spring	1.0	0 - 145	21.7+(0.5xop.press.)	0.53	V70547-KAO
V45AC11D-C3**†	NO/NC	Internal	Collected x	Sol/Spring	1.0/	43.5 - 145	-	0.53	V70548-KAO
V45AC22D-C3**†	NO/NC	External	Not collected	Sol/Spring	1.0/	0 - 145	21.7+(0.5xop.press.)	0.53	V70548-KA

## 5/2 Solenoid Pilot Actuated Valves

Model	Spool Techn.	Pilot Supply	Pilot Exhaust	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight lb.	Repair Kit
V44A513D-C3**†	GI	Internal	Collected x	Solenoid	Air Spring	0.9	14.5 - 145	-	0.53	V70540-KAO
V44A523D-C3**†	GI	External	Not collected	Solenoid	Air Spring	0.9	26" Hg - 232	14.5 - 145	0.53	V70540-KAO
V44A517D-C3**†	GI	Internal	Collected x	Solenoid	Spring	0.9	23.2 - 145	-	0.44	V70540-KAO
V45A517D-C3**†	Ss	Internal	Collected x	Solenoid	Spring	1.2	29 - 145	-	0.46	V70541-KAO
V44A527D-C3**†	GI	External	Not collected	Solenoid	Spring	0.9	26" Hg - 232	23.2 - 145	0.44	V70540-KAO
V45A527D-C3**†	Ss	External	Not collected	Solenoid	Spring	1.2	26" Hg - 145	29 - 145	0.46	V70541-KAO
V44A511D-C3**†	GI	Internal	Collected x	Solenoid	Solenoid	0.9	29 - 145	-	0.60	V70540-KAO
V45A511D-C3**†	Ss	Internal	Collected x	Solenoid	Solenoid	1.2	29 - 145	-	0.60	V70542-KAO
V44A522D-C3**†	GI	External	Not collected	Solenoid	Solenoid	0.9	26" Hg - 232	29 - 145	0.60	V70540-KAO
V45A522D-C3**†	Ss	External	Not collected	Solenoid	Solenoid	1.2	26" Hg - 145	29 - 145	0.60	V70542-KAO

\*\* Insert voltage code from Table 1 "Voltage Codes and Spare Pilot Valves".  
† Add connector code from Table 2, "Connector Codes and Part Number".

**Table 1**  
**\*\*Voltage Codes and Spare Pilot Valves**

Voltage	Code	Power Inrush / Hold	Pilot Valve Part.-no.
12 V d.c.	12	1.2 W	VZC7L2C1-C312A
24 V d.c.	13	1.2 W	VZC7L2C1-C313A
24 V 50/60 Hz.	14	2.1 / 1.5 VA	VZC7L2C1-C314A
48 V 50/60 Hz	16	2.1 / 1.5 VA	VZC7L2C1-C316A
110 V d.c.	17	1 W	VZC7L2C1-C317A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C318A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C319A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C213A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C218A

Other voltages available on request.  
Spare pilot valves are delivered with mounting screws.

**Table 2**  
**†Connector Codes and Part Number**

Code	Part Number
A	Solenoid without connector
B	Cable grip
C	10 ft. molded cable, 0-240 VAC/VDC
H	Cable grip w/indicator light, 24 VAC/VDC
J	Cable grip w/indicator light, 120 VAC/VDC
5	10 ft. molded cable with indicator light, surge suppression, 24 VAC/VDC
6	10 ft. molded cable with indicator light, 110V/50 Hz-120V.60Hz

# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

## 5/3 Solenoid Pilot Actuated Valves

	Model	Spool Techn.	Valve Function	Pilot Supply	Pilot Exhaust	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight lb.	Repair Kit
	V44A611D-C3**†	GI	APB	Internal	Collected x	Solenoid	Solenoid	0.9	29 - 145	-	0.62	V70540-KA0
	V45A611D-C3**†	Ss	APB	Internal	Collected x	Solenoid	Solenoid	1.15	36.3 - 145	-	0.59	V70543-KA0
	V44A622D-C3**†	GI	APB	External	Not collected	Solenoid	Solenoid	0.9	26" Hg - 232	29 - 145	0.62	V70540-KA0
	V45A622D-C3**†	Ss	APB	External	Not collected	Solenoid	Solenoid	1.15	26" Hg - 145	36.3 - 145	0.59	V70543-KA0
	V44A711D-C3**†	GI	COE	Internal	Collected x	Solenoid	Solenoid	0.9	29 - 145	-	0.62	V70540-KA0
	V45A711D-C3**†	Ss	COE	Internal	Collected x	Solenoid	Solenoid	1.15	36.3 - 145	-	0.59	V70544-KA0
	V44A722D-C3**†	GI	COE	External	Not collected	Solenoid	Solenoid	0.9	26" Hg - 232	29 - 145	0.62	V70540-KA0
	V45A722D-C3**†	Ss	COE	External	Not collected	Solenoid	Solenoid	1.15	26" Hg - 145	36.3 - 145	0.59	V70544-KA0
	V44A811D-C3**†	GI	COP	Internal	Collected x	Solenoid	Solenoid	0.9	29 - 145	-	0.62	V70540-KA0
	V45A811D-C3**†	Ss	COP	Internal	Collected x	Solenoid	Solenoid	1.15	36.3 - 145	-	0.59	V70545-KA0
	V44A822D-C3**†	GI	COP	External	Not collected	Solenoid	Solenoid	0.9	26" Hg - 232	29 - 145	0.62	V70540-KA0
	V45A822D-C3**†	Ss	COP	External	Not collected	Solenoid	Solenoid	1.15	26" Hg - 145	36.3 - 145	0.59	V70545-KA0

**Table 1**  
\*\*Voltage Codes and Spare Pilot Valves

Voltage	Code	Power Inrush / Hold	Pilot Valve Part.-no.
12 V d.c.	12	1.2 W	VZC7L2C1-C312A
24 V d.c.	13	1.2 W	VZC7L2C1-C313A
24 V 50/60 Hz.	14	2.1 / 1.5 VA	VZC7L2C1-C314A
48 V 50/60 Hz	16	2.1 / 1.5 VA	VZC7L2C1-C316A
110 V d.c.	17	1 W	VZC7L2C1-C317A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C318A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C319A
115 V 50/60 Hz	18	2.1 / 1.5 VA	VZC7L2C1-C213A
230 V 50/60 Hz	19	2.1 / 1.5 VA	VZC7L2C1-C218A

Other voltages available on request.  
Spare pilot valves are delivered with mounting screws.

**Table 2**  
†Connector Codes and Part Number

Code	Part Number
A	Solenoid without connector
B	Cable grip
C	10 ft. molded cable, 0-240 VAC/VDC
H	Cable grip w/indicator light, 24 VAC/VDC
J	Cable grip w/indicator light, 120 VAC/VDC
5	10 ft. molded cable with indicator light, surge suppression, 24 VAC/VDC
6	10 ft. molded cable with indicator light, 110V/50 Hz-120V.60Hz

## 2x3/2 Air Pilot Actuated Valves (Softseal Spool)

	Model	Function 2x3/2	Actuation 3/2 Function	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Spares Kit
	V45AA33A-X0020	NC	Air/Spring	1.1	0 - 145	1.5 + (0.5xop. pressure)	0.20	V70546-KA0
	V45AB33A-X0020	NO	Air/Spring	1.0	0 - 145	1.5 + (0.5xop. pressure)	0.20	V70547-KA0
	V45AC33A-X0020	NO/NC	Air/Spring	1.0/1.1	0 - 145	1.5 + (0.5xop. pressure)	0.20	V70548-KA0

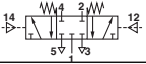
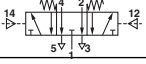
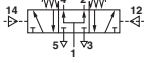
## 5/2 Air Pilot Actuated Valves

	Model Techn.	Spool	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Repair Kit
	V44A537A-X0090	GI	Air	Spring	0.9	26" Hg - 232	23 - 232	0.40	V70540-KA0
	V45A537A-X0090	Ss	Air	Spring	1.2	26" Hg - 145	29 - 145	0.40	V70541-KA0
	V44A533A-X0020	GI	Air	Air	0.9	26" Hg - 232	29 - 232	0.44	V70540-KA0
	V45A533A-X0020	Ss	Air	Air	1.2	26" Hg - 145	29 - 145	0.44	V70542-KA0


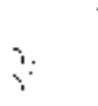

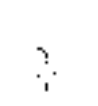
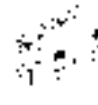
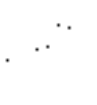

# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

## 5/3 Air Pilot Actuated Valves

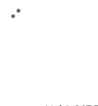

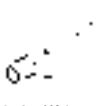
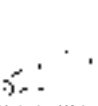
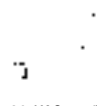








Model	Spool	Valve Function	Operator 14	Return 12	Flow Cv	Operating Pres. (psig)	Pilot Pres. (psig)	Weight (lb.)	Spares Kit
 V44A633A-X0020	GI	APB	Air	Air	0.9	26" Hg - 232	29 - 232	0.48	V70540-KA0
V45A633A-X0020	Ss	APB	Air	Air	1.15	26" Hg - 145	36 - 145	0.46	V70543-KA0
 V44A733A-X0020	GI	COE	Air	Air	0.9	26" Hg - 232	29 - 232	0.48	V70540-KA0
V45A733A-X0020	Ss	COE	Air	Air	1.15	26" Hg - 145	36 - 145	0.46	V70544-KA0
 V44A833A-X0020	GI	COP	Air	Air	0.9	26" Hg - 232	29 - 232	0.48	V70540-KA0
V45A833A-X0020	Ss	COP	Air	Air	1.15	26" Hg - 145	36 - 145	0.46	V70545-KA0

## Bases

Modular Sub-base Side Ported without Pilot Ports	Modular Sub-base* Ported with Pilot Ports	Modular Sub-base Side Ported (PIF) without Pilot Ports	Modular Sub-base* Side Ported (PIF) with Pilot Ports
			
V70525-PAF (1/8 NPTF)	V70526-PAF (1/8 NPTF)	V70525-2AF (3/8 PIF)	V70526-2AF (3/8 PIF)
V70525-RAF (1/4 NPTF)	V70526-RAF (1/4 NPTF)	V70525-8AF (ø8 mm)	V70526-8AF (ø8 mm)
V70525-BAF (G1/4)	V70526-BAF (G1/4)	V70525-YAF (ø10 mm)	V70526-YAF (ø10 mm)
<b>End Plate Kit End Ported</b>	<b>Single Station Sub-base Side ported with Pilot Ports</b>	<b>Fixed Length Sub-base Bottom ported</b>	
			
V70524-SAC (3/8 NPTF)	V70501-RAB (1/4 NPTF)	V705**-RA0	
V70524-CAC (G3/8)	V70501-BAB (G1/4)	**=02, 04, 06, 08, 10, 12 stations	

\*Use with air pilot valves.

## Accessories

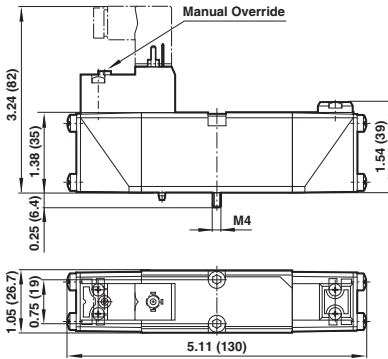
Intermediate Supply/Exhaust Module	Single Valve Shut-Off Plate	Single Pressure Regulator Plate	Double Pressure Regulator Plate	Flow Control Plate
				
V70529-RA0 (1/4 NPTF)	V70530-KA0 (Port 1 blocked)	V70527-KA1 (Port 1 reg.)	V70527-KA4 (Ports 2+4 reg.)	V70528-KA0 (Ports 3+5)
V70529-BA0 (G1/4)		V70527-KA2 (Port 2 reg.)		
		V70527-KA3 (Port 4 reg.)		
DIN EN 50 022 rail (3.28 feet)	DIN-rail Mounting Kit	Blanking Plate for unused station	Blanking Disk to Modular Sub-base	Manual Override Set-Up Kit
				
V10009-C00 (35x7.5mm)	V70531-KA0	V70500-KA0	V70522-K00 (Ports 1,3,5)	V70532-K00
V10592-C01 (35x15mm)			V70523-K00 (Ports 12+14)	
<b>Sandwich Plate with additional</b>				
				
Pressure Port 1	Transition Plate #18 Æ#26 mm	Transition Plate #18 Æ #26 mm (with supply and exhaust ports)		
V70535-RA0 1/4 NPTF	V70436-K00	V70436-R00 1/4 NPTF		
V70535-BA0 G1/4		V70436-B00 G1/4		

# V44/V45 Mini ISO Star Valves

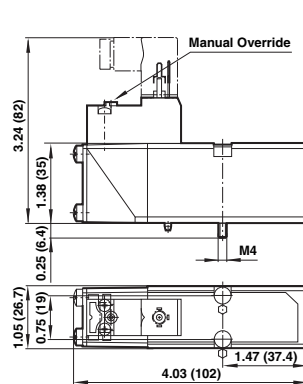
2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

Dimensions in inches (mm)

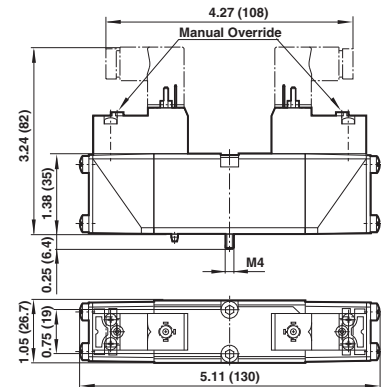
V44A5\*3D-C3\*\*\*  
5/2 Single Solenoid Pilot Valve  
Air Spring Return



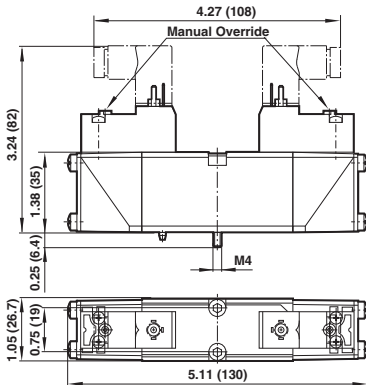
V44A5\*7D-C3\*\*\* and V45A5\*7D-C3\*\*\*  
5/2 Single Solenoid Pilot Valve  
Mechanical Spring Return



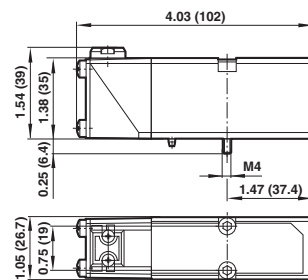
V44A5\*\*D-C3\*\*\* and V45A5\*\*D-C3\*\*\*  
5/2 Double Solenoid Pilot Valve



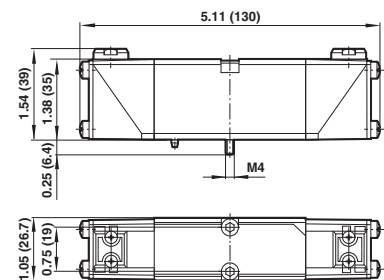
V44A\*\*\*D-C3\*\*\* and V45A\*\*\*D-C3\*\*\*  
2x3/2 + 5/3 Double Solenoid Pilot Valve



V44A537A-X00\*0 and V45A537A-X00\*0  
5/2 Single Air Pilot Valves



V44A\*33A-X00\*0 and V45A\*33A-X00\*0  
2x3/2 + 5/2 + 5/3 Double Air Pilot Valve



## Conversion from internal to external pilot supply / collected pilot exhaust

The lowered and captive gasket between valve body and pilot valve defines and indicates pilot air supply as well as pilot exhaust function of the valve.

Solenoid pilot actuated valves



blue gasket

Drawing shows no pilot valve.



blue gasket

## Internal pilot supply, pilot exhaust air collected and exhausted via port 14.

All solenoid pilot valves with code 1 at position 6 in the part number (e.g V45A51...) have the gasket mounted in this position on delivery.

Note: Dismounting pilot valve gives access to gasket. Conversion from internal to external pilot supply (or vice versa) by turning the gasket.

Caution: In this case part number and symbol on label shows different function. Therefore check gasket position when mounting valve.

## External pilot supply from port 14 only, pilot exhaust air not collected but bleed through valve body.

All solenoid pilot valves with code 2 at position 6 in the part number (e.g V45A52...) have the gasket mounted in this position on delivery.

Air pilot actuated valves



blue gasket

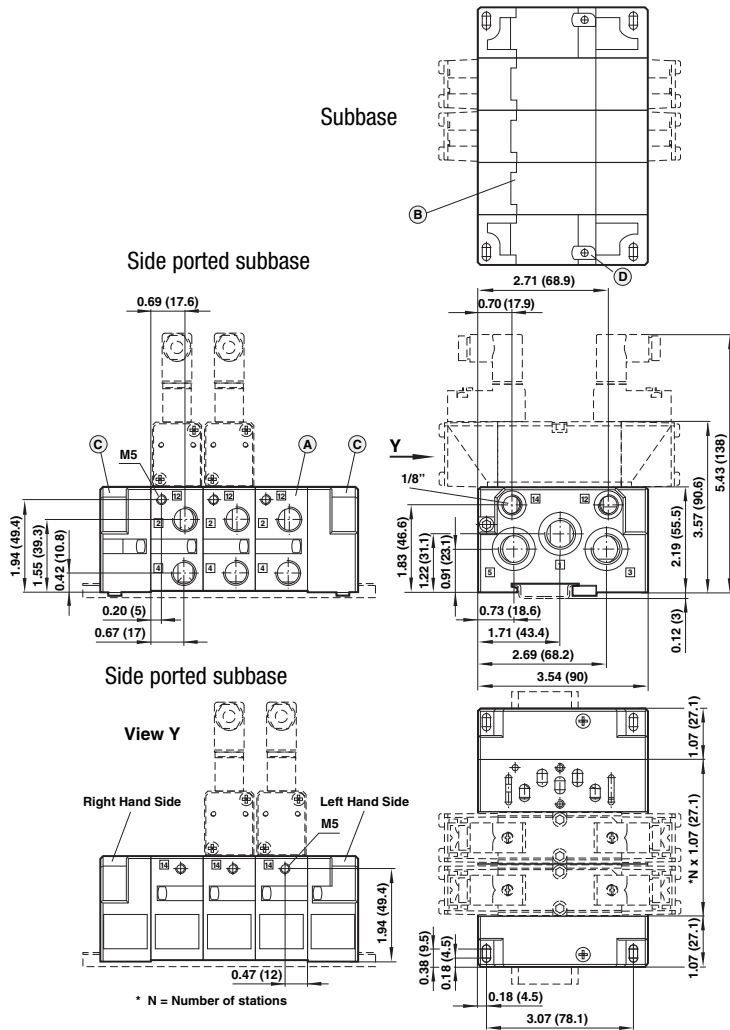
Drawing includes cover plate.

Air pilot actuated valves  
External pilot supply.

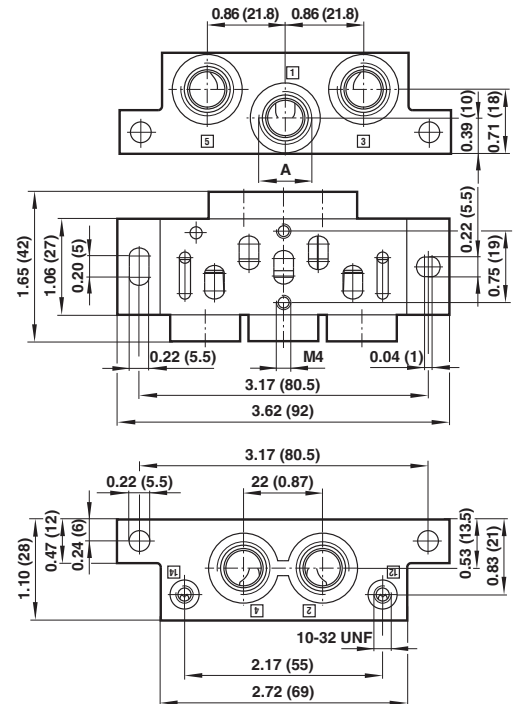
# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

Dimensions in inches (mm)



Single Station Subbase - Side Ported with Pilot Ports



Model	Port Size A	Weight lb (kg)
V70501-RAB	NPTF1/4 side ported with pilot ports	0.24
V70501-BAB	G1/4 side ported with pilot ports	(0.11)

**Note:** Port 14 used for external pilot air supply or for collected pilot air exhaust. **Never plug port 14 when using valves with internal pilot air supply. Port 12 is not used, plugging not necessary.**

## Accessories

<b>DIN EN 50022 rail</b> 35 x 7.5 mm, 3.3' (1m) V10009-C00	0.68 lb (0.31 kg)
<b>DIN EN 50022 rail</b> 35 x 15 mm, 3.3' (1m) V10592-C01	2.25 lb (1.02 kg)
<b>DIN rail</b> Mounting Kit V70531-KA0	<b>D</b> 0.02 lb (0.01 kg)
<b>Blanking Disk to Modular Sub-base</b> Ports 1, 3, 5 V70522-K00	0.02 lb (0.01 kg)
<b>Blanking Disk to Modular Sub-base</b> Ports 12+14 V70523-K00	0.02 lb (0.01 kg)

x = Insert port type from table below

Code	Ports 2+4	Ports 12+14
P	1/8NPTF	10-32 UNF
R	1/4NPTF	10-32 UNF
2	3/8 PIF	10-32 UNF
B	G1/4	M5
8	ø 8 mm PIF	M5
Y	ø 10 mm PIF	M5

## Individual components

<b>Modular Sub-base</b> Ports 2+4 on side <b>V70525-xAF</b>	<b>A</b> 0.40 lb (0.18 kg)
<b>Modular Sub-base</b> Ports 2+4 on side Pilot Ports 12+14 on side <b>V70526-xAF</b>	<b>A</b> 0.40 lb (0.18 kg)
<b>Modular Sub-base</b> Ports 2+4 on bottom <b>V70525-BAE</b>	<b>B</b> 0.40 lb (0.18 kg)
<b>Modular Sub-base</b> Ports 2+4 on bottom Pilot Ports 12+14 on side <b>V70526-BAE</b>	<b>B</b> 0.40 lb (0.18 kg)
<b>End Plate Kit</b> Side Ported <b>V70524-CAC</b> (G3/8) <b>V70524-SAC</b> (3/8NPTF) End ported end caps 1 left hand and 1 right hand	<b>C</b> 0.80 lb (0.36 kg)

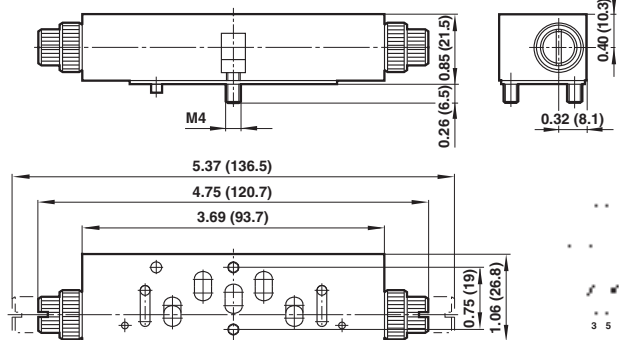


# V44/V45 Mini ISO Star Valves

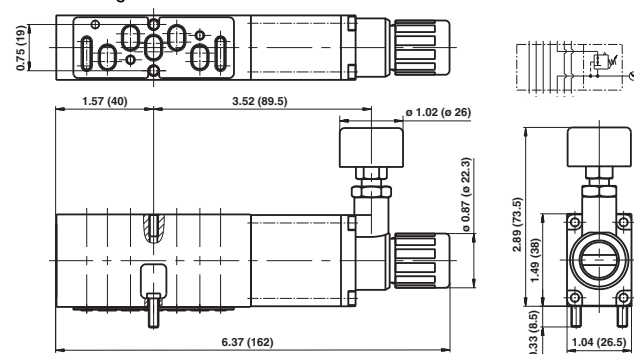
2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

Dimensions in inches (mm)

## Flow Control Plate



## Pressure Regulator Plate

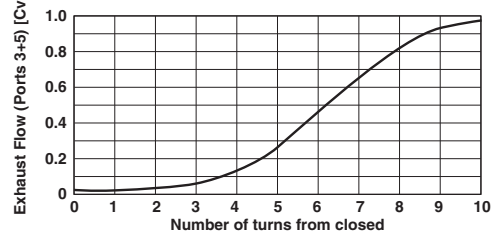


Model	Description	Weight lb (kg)
V70528-KA0	Flow control supplied with gasket	0.37 (0.17)

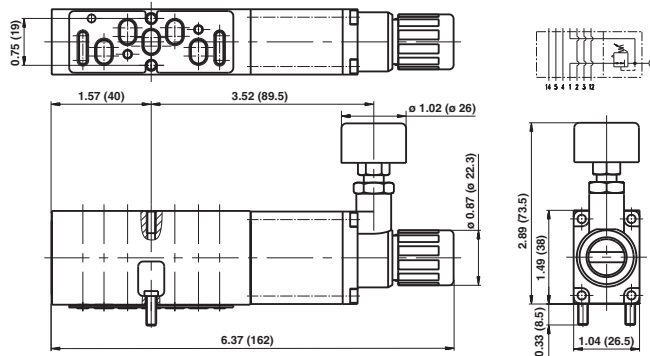
Model	Description	Weight lb (kg)
V70527-KA2	Regulation of Port 2	0.79 (0.36)

Maximum inlet pressure	232 psig (16 bar)
Regulated pressure	7.25–145 psig (0.5–10 bar)

## Dual Regulation of Exhaust Ports 3 and 5



Flow: Port 1 → 2 and 1 → 4 remain unchanged  
Flow measured at 87 psig inlet, Pressure drop 15 psi



Model	Description	Weight lb (kg)
V70527-KA1	Regulation of Port 1	0.36 (0.79)

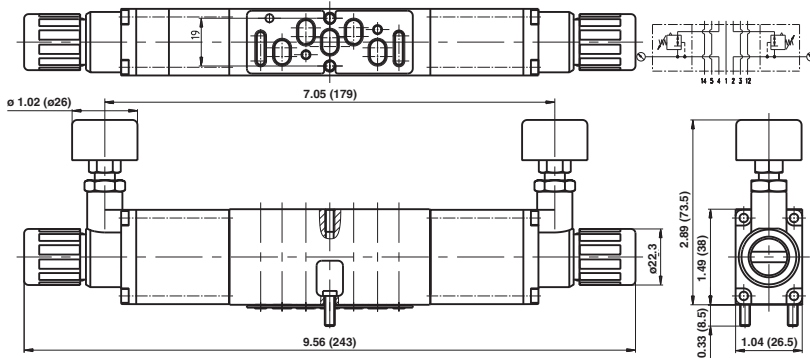
Maximum inlet pressure	232 psig (16 bar)
Regulated pressure	14.5–145 psig (1–10 bar)

# V44/V45 Mini ISO Star Valves

2x3/2, 5/2 and 5/3, Solenoid and Pilot Actuated ISO 15407-1 / VDMA 24 563 Size 26 mm

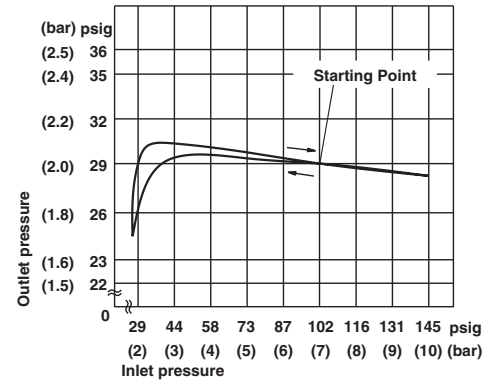
Dimensions in inches (mm)

## Pressure Regulator Plate

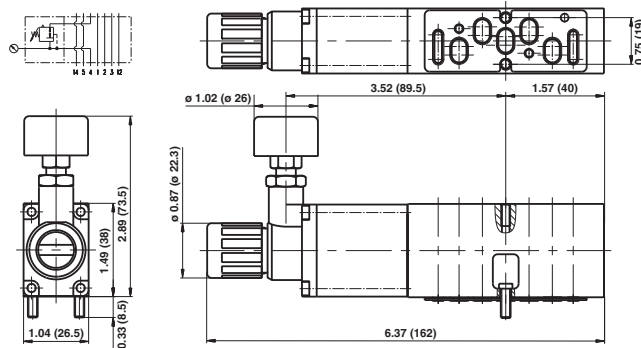
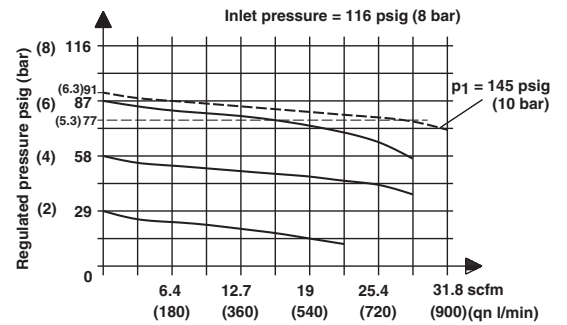


Model	Description	Weight lb (kg)
V70527-KA4	Regulation of Ports 2+4	1.23 (0.56)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)

## Hysteresis

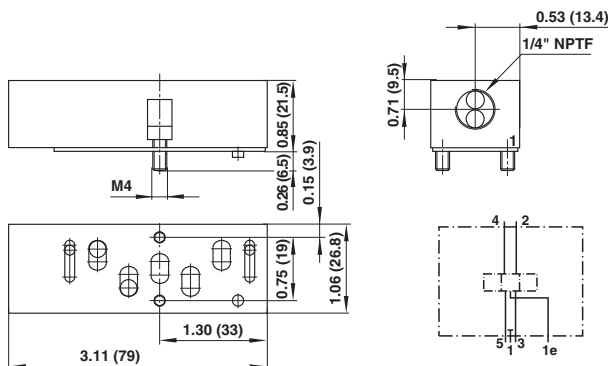


## Flow Characteristics for Pressure Regulator Plates



Model	Description	Weight lb (kg)
V70527-KA3	Regulation of Port 4	0.79 (0.36)
Maximum inlet pressure		232 psig (16 bar)
Regulated pressure		14.5–145 psig (1–10 bar)

## Sandwich Plate with additional Pressure Port 1



Model	Description	Weight lb (kg)
V70535-RA0	Sandwich Plate with additional Port 1, supplied with gasket	0.26 (0.12)