

SERIES-534



Features

- Mounting Interface Dimensions Conform To ISO - 5599/1
- Soft Seals Spool Type Arrangement
- Available in Variety of Options
- Permits Long Period Intermediate Stops
- Inbilt Flow Control
- Easy on Servicing
- Available in Multiple Stacking Units

ORDERING CODE

534

1

04

0

5

1

Model

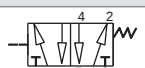
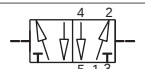
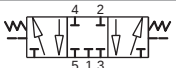
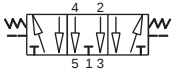
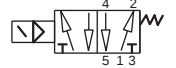
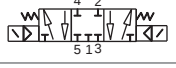
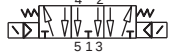
534

ISO Size

ISO - 1	1
ISO - 2	2

ISO Size	Port Size	Sub plate Code
ISO - 1	1/4" BSP	1
	3/8" BSP	2
ISO - 2	3/8" BSP	3
	1/2" BSP	4

Flow control	
0	No Flow control
1	At exhaust No:3
2	At exhaust No:5
3	At both exhausts

Function Symbol	Function Code
	04
	01
	06
	08
	52
	55
	56
	57

0	No solenoids
1	230 VAC, 50 Hz
2	110 VAC , 50Hz
3	110 VDC
4	24 VDC
9	Other Voltages (Mention Voltage)

Example: 534 / 1 / 04 / 0 / 5 / 1

TECHNICAL INFORMATION

Application:

These valves are primarily used to control Double Acting Cylinders. 5/2-Valves can also be used for controlling single-acting cylinders by plugging one of the outlet port connections. 5/3-Valves with a closed central position are used for step by step movement of the piston rod. Valves with a vented central position are used when the piston force is to be discontinued on completion of the movement. They can also be used to control two single-acting cylinders or pressure controlled valves.

Function:

These valves are of the balanced spool type with soft seals together with Split Sleeve rings and Piston design for differential load.

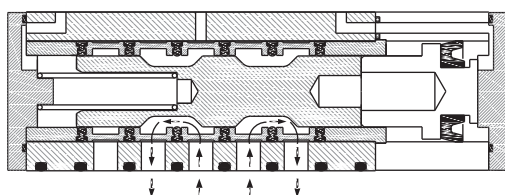
Design, General:

These valves can be supplied with or without a Throttle unit consists of two adjustable throttle screws and two Nuts. This Nuts are used to prevent tampering with the Throttle unit. The valve series is built up as a modular system with two ISO sizes

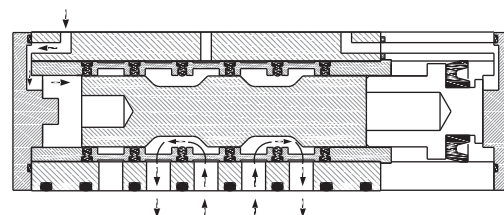
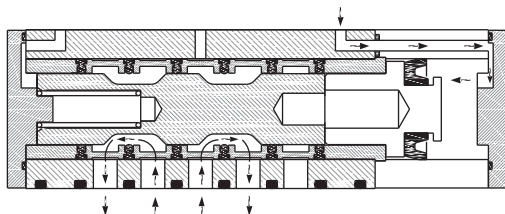
Design, Solenoid:

The Solenoid unit is encapsulated in plastic and is fitted with three Lug pins. The lug pins are compatible with a Plug In Connector-Type The solenoid coil can be rotated around the armature post to any position relative to the valve body. The Solenoid pilot the valve is also fitted with a lever for Manual override during maintenance or in the event of a power failure.

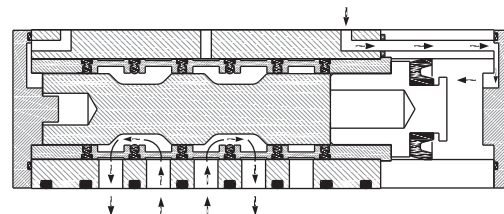
Flow Paths 5/2 Valves:



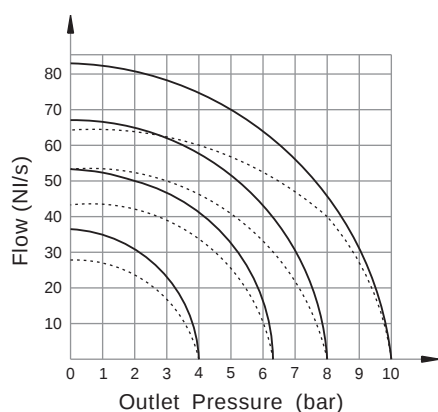
Unistable Function



Bistable Function

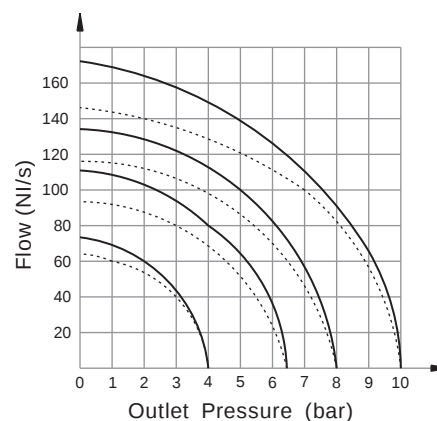


Flow Diagram: ISO - 1



C-Value For Port 1/4" = 5.9
C-Value For Port 3/8" = 7.4

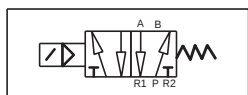
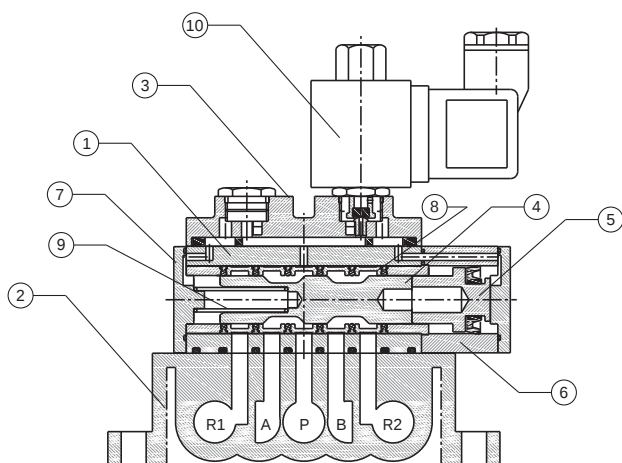
Flow Diagram: ISO - 2



C-Value For Port 3/8" = 13.0
C-Value For Port 1/2" = 15.5

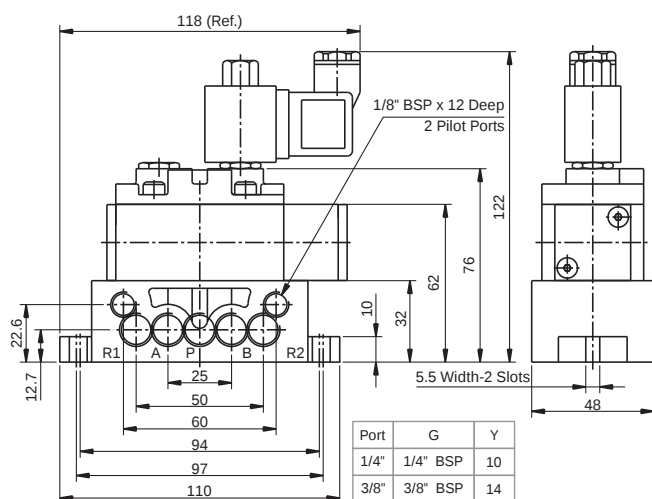
ISO - 1 :

5 PORT, 2 POSITION SINGLE SOLENOID VALVE : 1/4" & 3/8" BSP



SPECIFICATIONS :

Series	534
Operation	Spool Type, Solenoid Internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure	3.5 bar
Response Time	2.4 ms
Effective Sectional Area	67 mm ²
Applicable Cylinder Bore Size	32 To 63 Bore
Max. Working Pressure	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Coil Insulation	Class-F
Voltage	230V AV, 110V AV & 24V DC
Power Consumption	6 Watt
Permissible Voltage Variation	± 10% of Rated Voltage
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

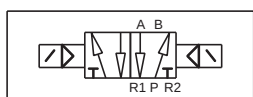
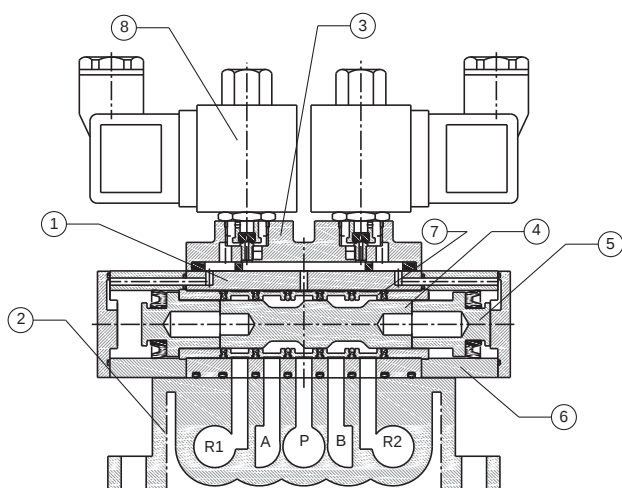


MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston housing	Aluminum
7	End cover	Aluminum
8	Sleeve	Plastic
9	Spring	Spring Steel
10	Solenoid coil	Std.

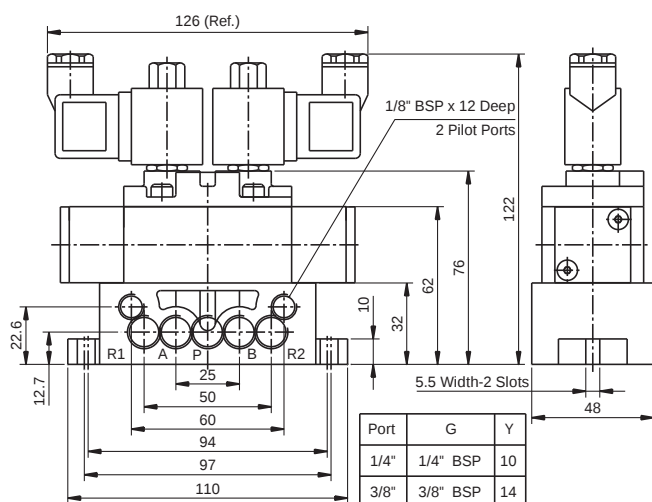
ISO - 1 :

5 PORT, 2 POSITION DOUBLE SOLENOID VALVE : 1/4" & 3/8" BSP



SPECIFICATIONS :

Series	534
Operation	Spool Type, Solenoid Internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure	3.5 bar
Response Time	2.4 ms
Effective Sectional Area	67 mm ²
Applicable Cylinder Bore Size	32 To 63 Bore
Max. Working Pressure	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Coil Insulation	Class-F
Voltage	230V AV, 110V AV & 24V DC
Power Consumption	6 Watt
Permissible Voltage Variation	± 10% of Rated Voltage
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

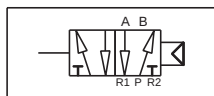
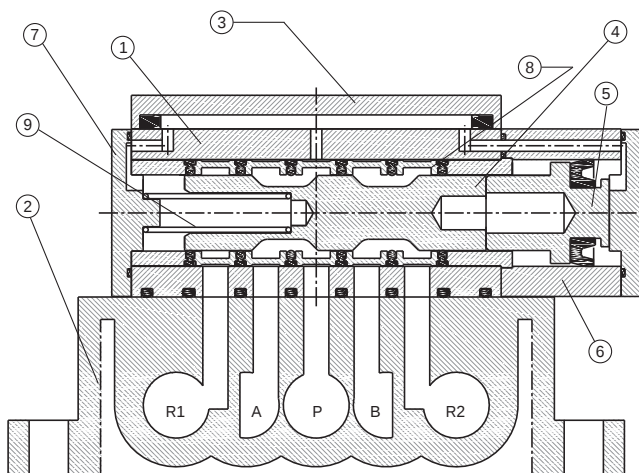


MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston housing	Aluminum
7	Sleeve	Plastic
8	Solenoid coil	Std.

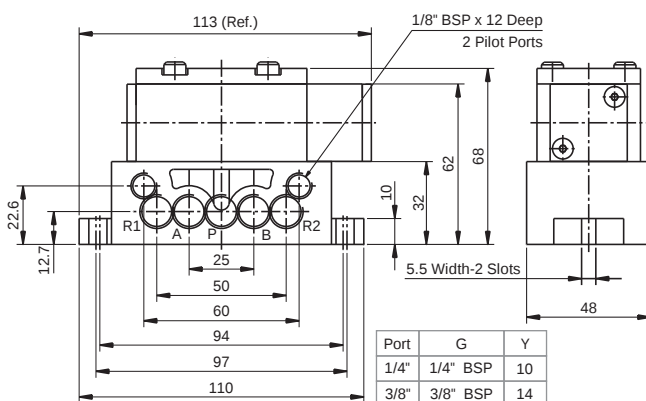
ISO - 1 :

5 PORT, 2 POSITION SINGLE AIR PILOT VALVE : 1/4" & 3/8" BSP



SPECIFICATIONS :

Series	534
Operation	Spool Type, External Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure (bar)	3.5
Response Time (ms)	2.4
Effective Sectional Area (mm ²)	67
Applicable Cylinder Bore Size	32 To 63 Bore
Max. Working Pressure (bar)	10
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

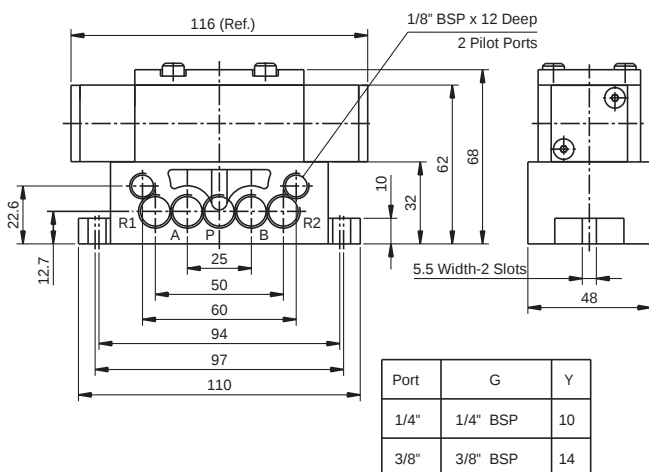
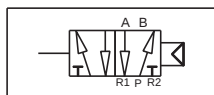
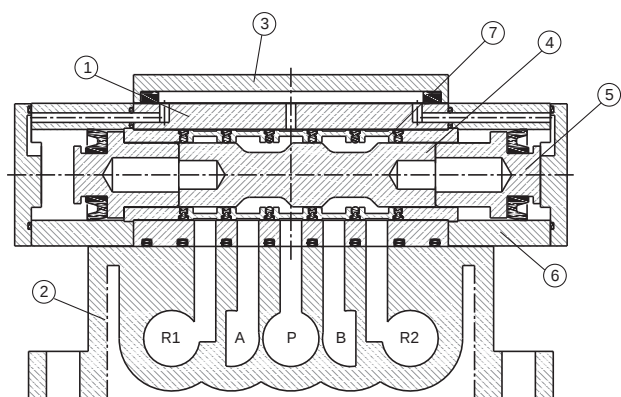


MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston housing	Aluminum
7	End Cover	Aluminum
8	Sleeve	Plastic
9	Spring	Spring Steel

ISO - 1 :

5 PORT, 2 POSITION DOUBLE AIR PILOT VALVE: 1/4" & 3/8" BSP



SPECIFICATIONS :

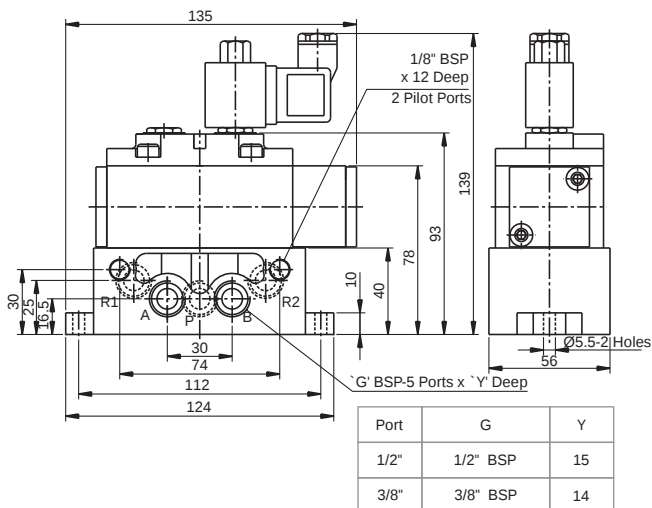
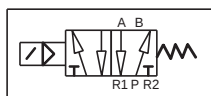
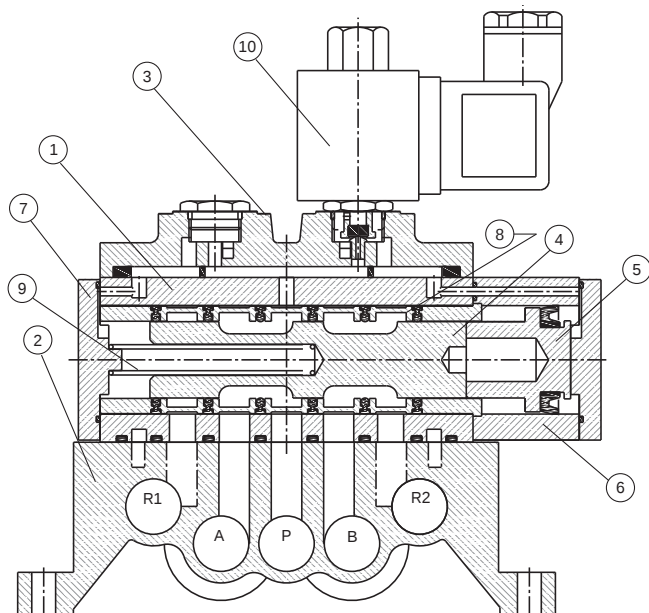
Series	534
Operation	Spool Type, External Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure (bar)	3.5
Response Time (ms)	2.4
Effective Sectional Area (mm ²)	67
Applicable Cylinder Bore Size	32 To 63 Bore
Max. Working Pressure (bar)	10
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston Housing	Aluminum
7	End Cover	Aluminum
8	Sleeve	Plastic
9	Spring	Spring Steel

ISO - 2 :

5 PORT, 2 POSITION SINGLE SOLENOID VALVE: 3/8" & 1/2" BSP



SPECIFICATIONS :

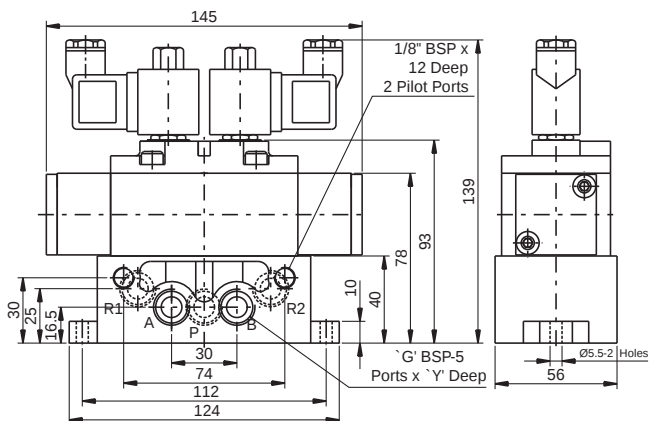
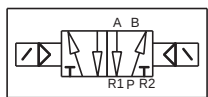
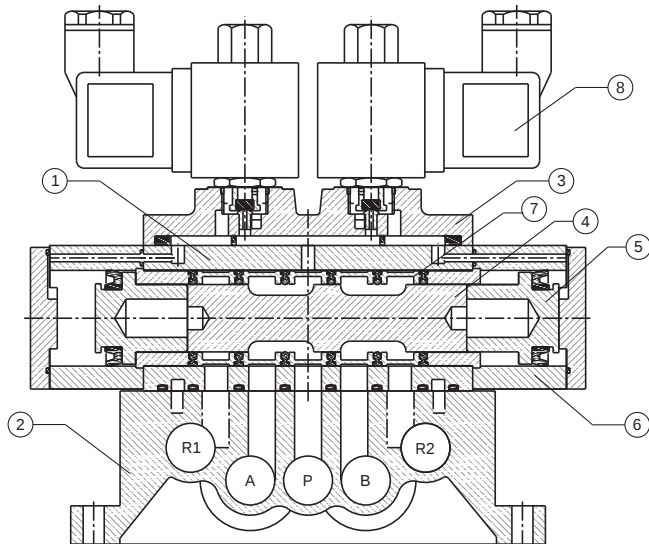
Series	534
Operation	Spool Type, Solenoid internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure	3.5 bar
Response Time	2.4 ms
Effective Sectional Area	67 mm ²
Applicable Cylinder Bore Size	32 To 63 Bore
Max. Working Pressure	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Coil Insulation	Class - F
Voltage	230V AV, 110V AV & 24V DC
Power Consumption	6 Watt
Permissible Voltage Variation	± 10% of Rated Voltage
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston Housing	Aluminum
7	End Cover	Aluminum
8	Sleeve	Plastic
9	Spring	Spring Steel
10	Solenoid Coil	Std.

ISO - 2 :

5 PORT, 2 POSITION DOUBLE SOLENOID VALVE: 3/8" & 1/2" BSP



Port	G	Y
1/2"	1/2" BSP	15
3/8"	3/8" BSP	14

SPECIFICATIONS :

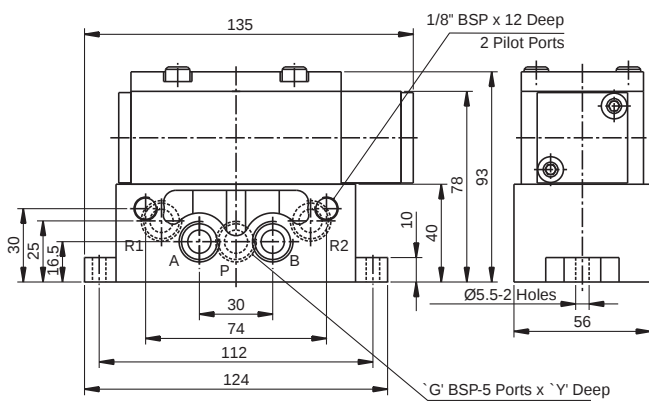
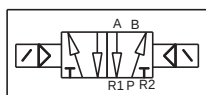
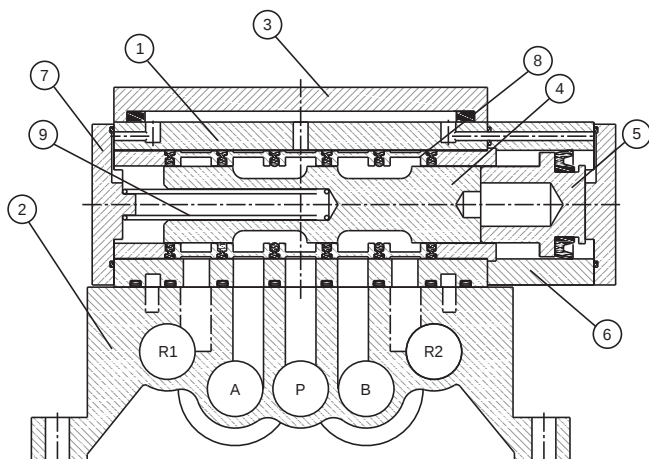
Series	534
Operation	Spool Type, Solenoid internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure ()	3.5 bar
Response Time ()	3 ms
Effective Sectional Area ()	126 mm ²
Applicable Cylinder Bore Size	Ø63 to Ø125
Max. Working Pressure ()	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Manual Override	Push and Turn
Coil Insulation	Class - F
Voltage	230V AV, 110V AV & 24V DC
Power Consumption	6 Watt
Permissible Voltage Variation	± 10% of Rated Voltage
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston Housing	Aluminum
7	Sleeve	Plastic
8	Solenoid Coil	Std.

ISO - 2 :

5 PORT, 2 POSITION SINGLE AIR PILOT VALVE: 3/8" & 1/2" BSP



Port	G	Y
1/2"	1/2" BSP	15
3/8"	3/8" BSP	14

SPECIFICATIONS :

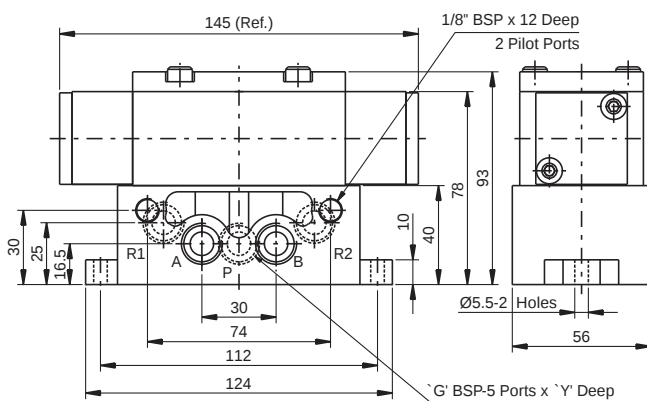
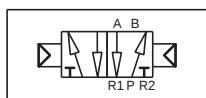
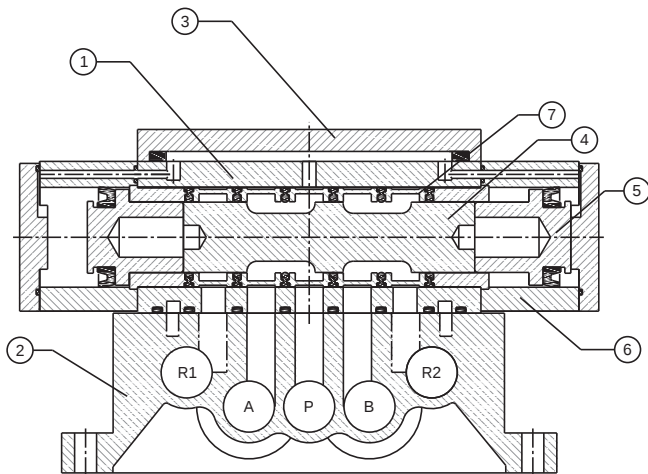
Series	534
Operation	Spool Type, Solenoid internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure	3.5 bar
Response Time	3 ms
Effective Sectional Area	126 mm ²
Applicable Cylinder Bore Size	Ø63 to Ø125
Max. Working Pressure	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston Housing	Aluminum
7	End Cover	Aluminum
8	Sleeve	Plastic
9	Solenoid Coil	Std.

ISO - 2 :

5 PORT, 2 POSITION DOUBLE AIR PILOT VALVE: 3/8" & 1/2" BSP



Port	G	Y
1/2"	1/2" BSP	15
3/8"	3/8" BSP	14

SPECIFICATIONS :

Series	534
Operation	Spool Type, Solenoid internal Pilot Operated
Function	5/2 (5 Port, 2 Position)
Medium	Compressed, Filtered Air
Min. Working Pressure	3.5 bar
Response Time	3 ms
Effective Sectional Area	126 mm ²
Applicable Cylinder Bore Size	63 To 125 Bore
Max. Working Pressure	10 bar
Operating Temp.	5 To 60° C
Lubrication	Not Required
Protection Structure	Dust Proof
Mounting	Top
Vibration/Impact (m/s ²)	
Weight	

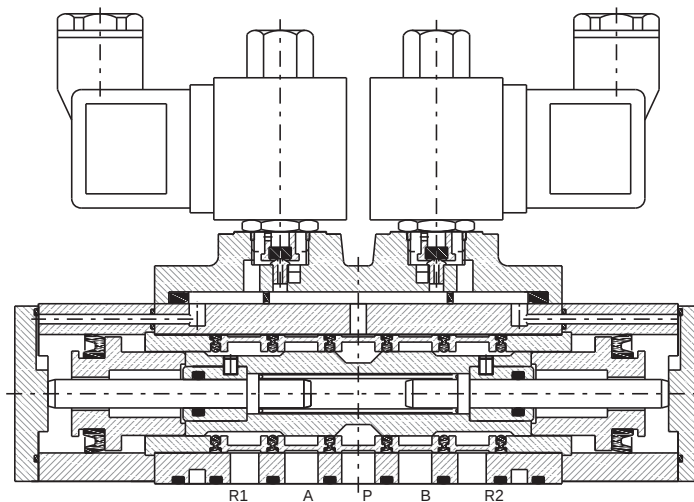
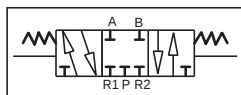
MATERIAL IDENTIFICATION:

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1	Valve body	Aluminum
2	Valve sub plate	Aluminum
3	Valve top plate	Aluminum
4	Spool	Aluminum
5	Piston	Aluminum
6	Piston Housing	Aluminum
7	Sleeve	Plastic

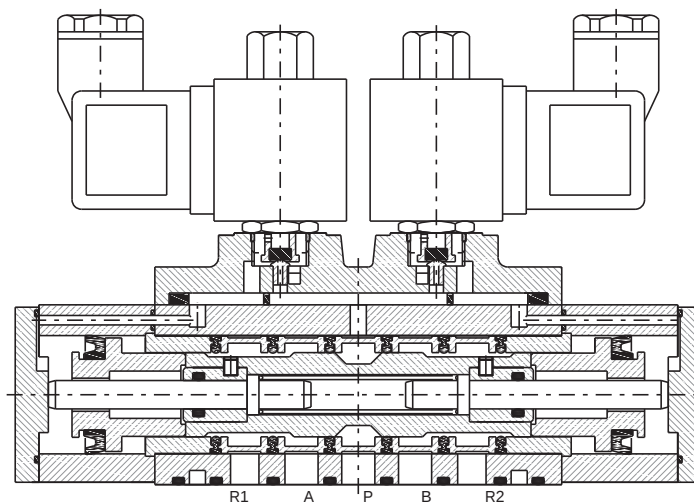
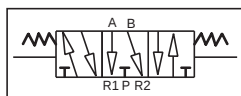
ISO 1 & 2 :

3 POSITION SOLENOID TYPE :

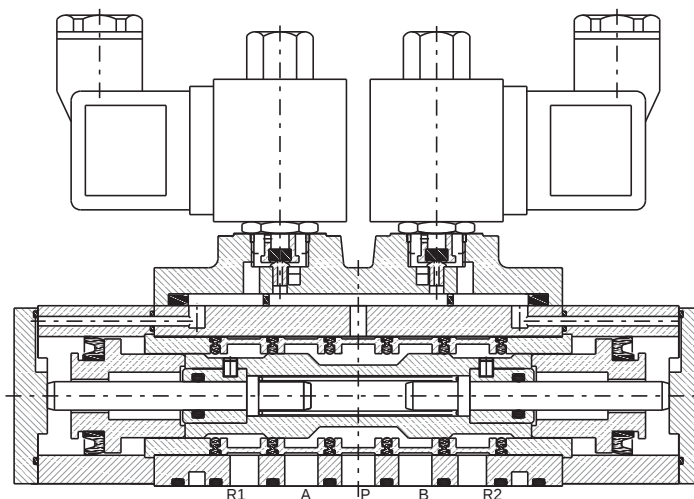
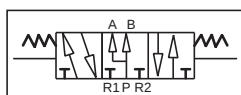
1. Closed Center



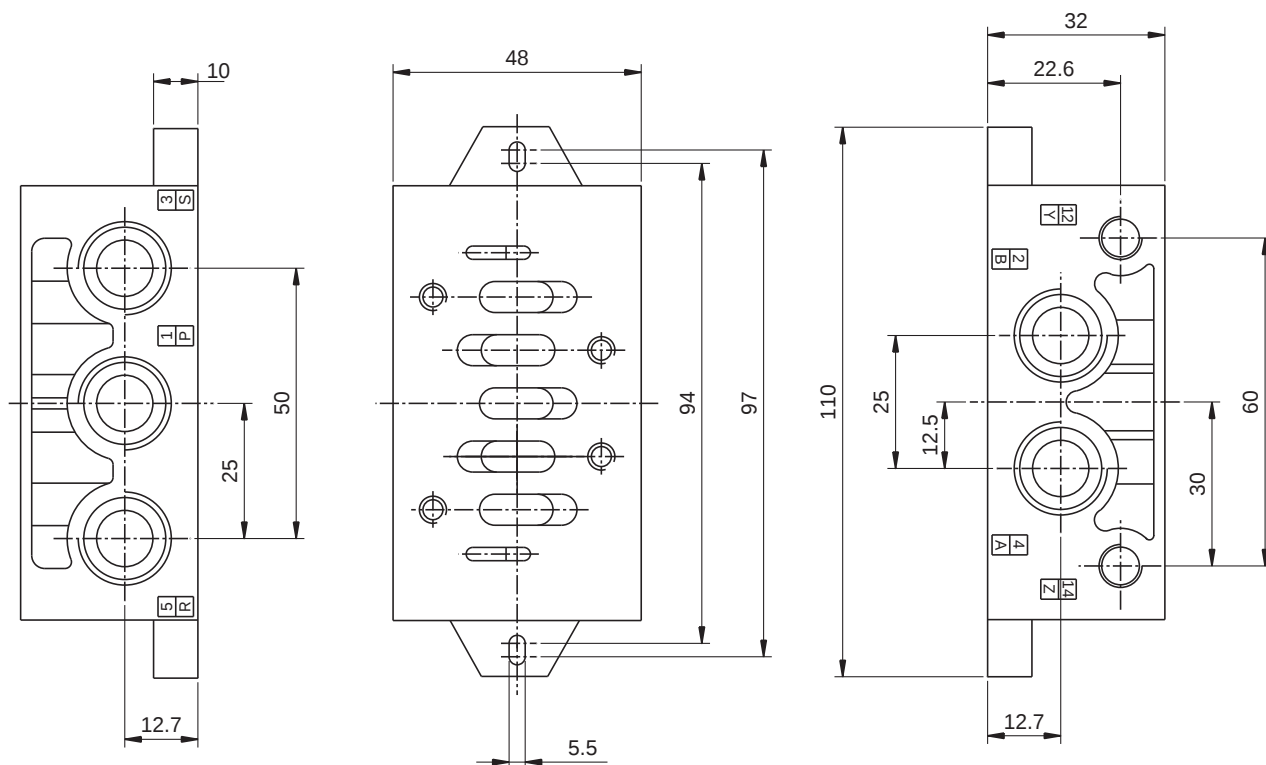
2. Exhaust Center



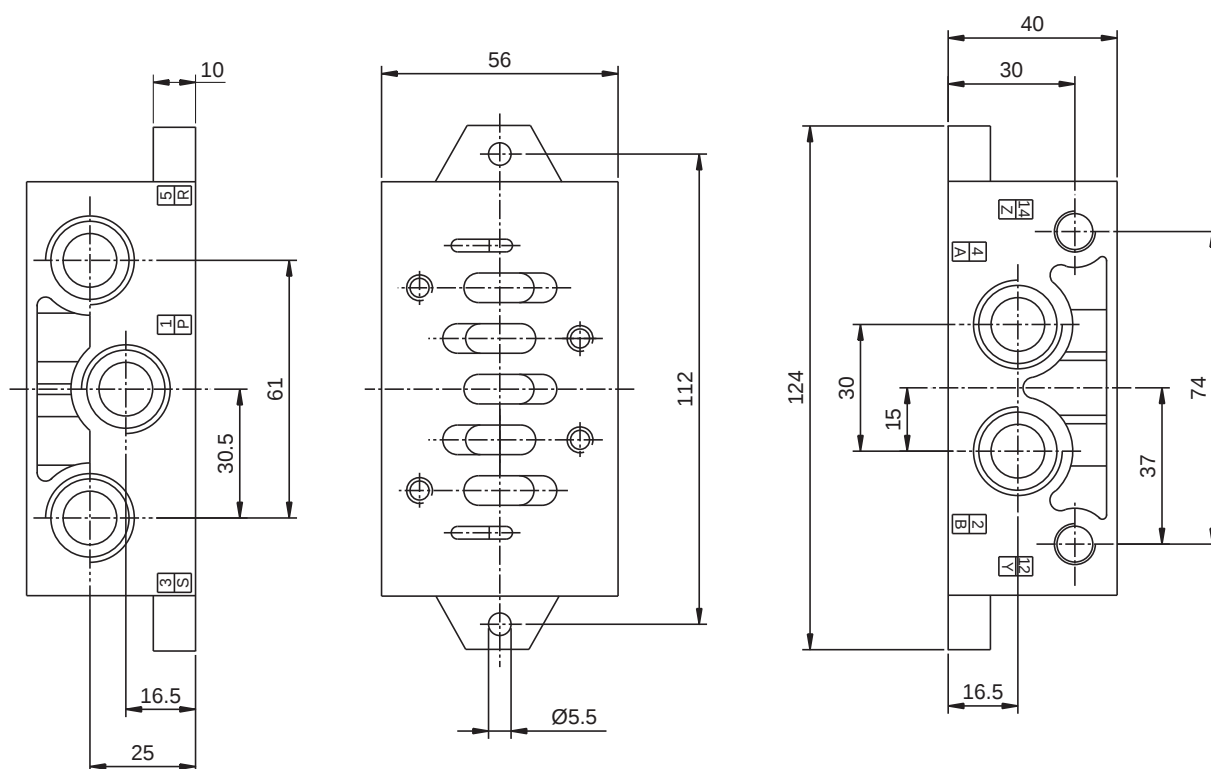
3. Pressure Center



ISO-1 SUB PLATE DIMENSIONS

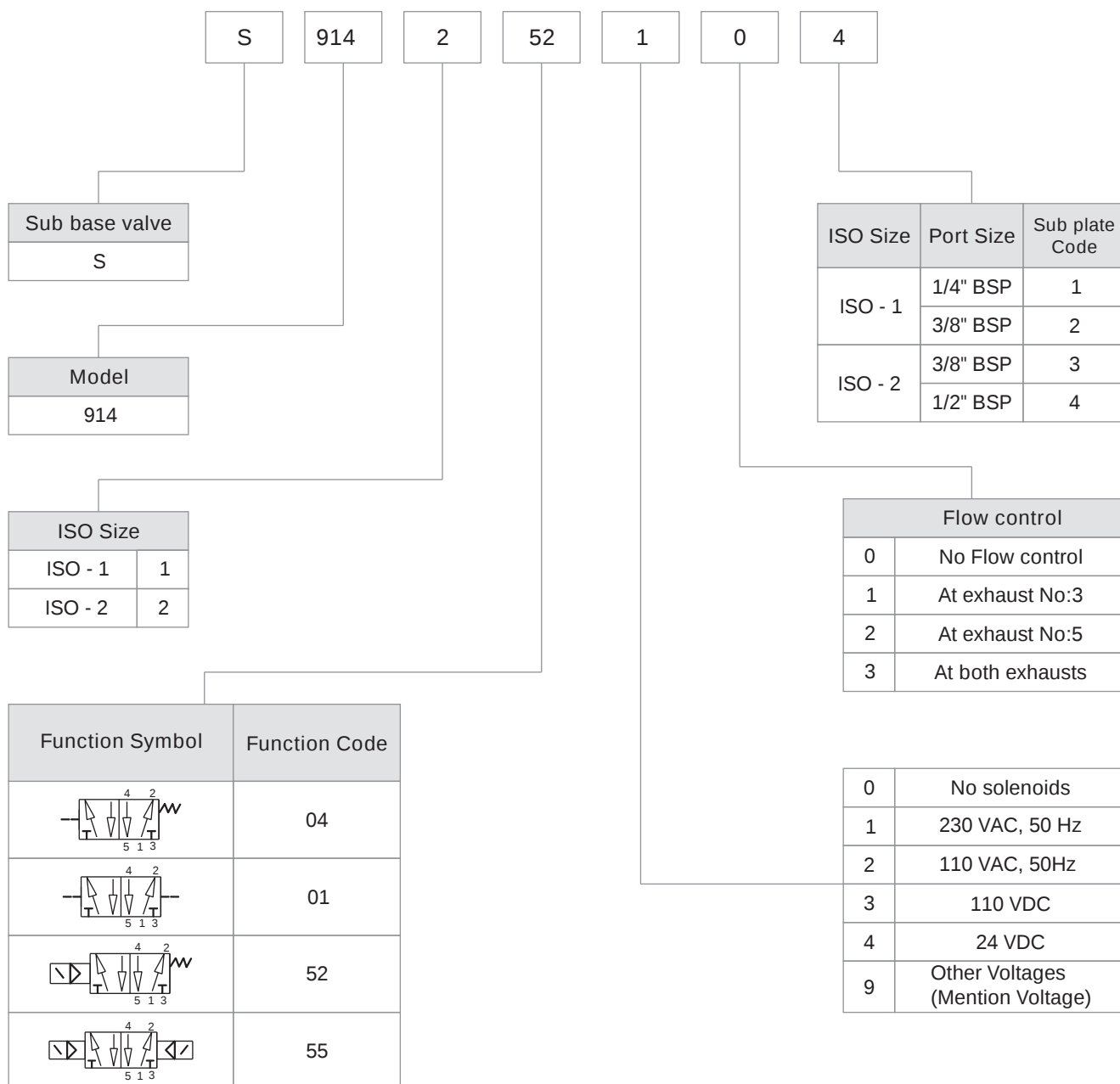


ISO-2 SUB PLATE DIMENSIONS



SERIES - S914

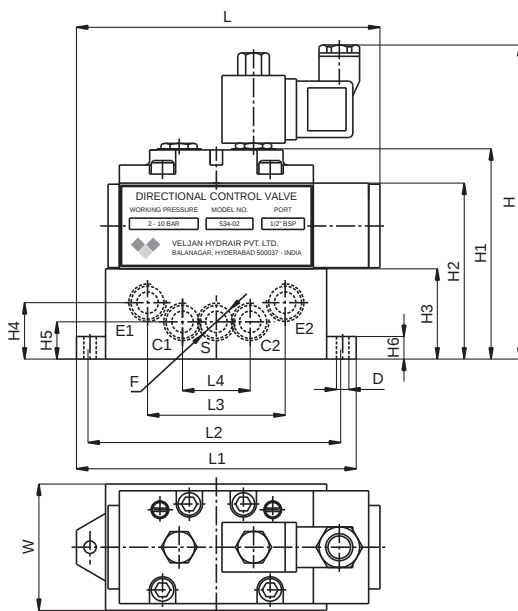
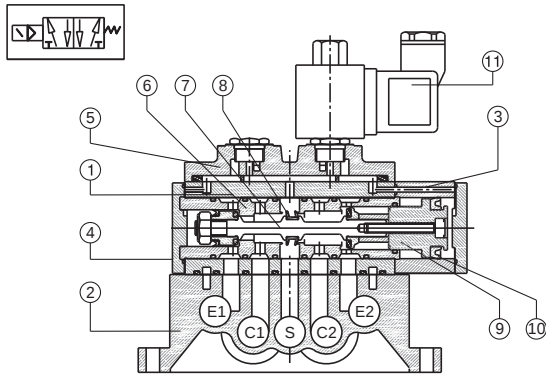
ORDERING CODE



Example: S 914 / 2 / 52 / 1 / 0 / 4

ISO - 1 & 2 :

5 PORT 2 POSITION SUB BASE SINGLE SOLENOID VALVE : 1/4" TO 1/2" BSP



SPECIFICATIONS :

Series	534 P
Operation	Poppet type, Solenoid operated
Function	5/2 (5 port 2position)
Medium	Compressed, Filtered air
Min working pressure	2.5 bar
Max working pressure	10 bar
Operating Temp.	5 to 60°c
Type of pilot	Internal pilot
Manual override	Rotary type
Coil insulation	Class - F
Voltage	Ac : 220v or 110v Dc: 24v
Power consumption	Ac : 7.5VA Dc : 6w
Permissible voltage variation	± 10 % of rated voltage
Protection structure	Dust proof
Type of Mounting	Sub base mounting

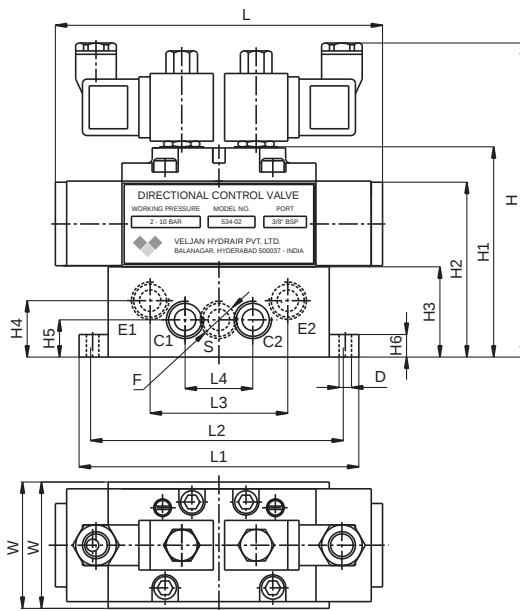
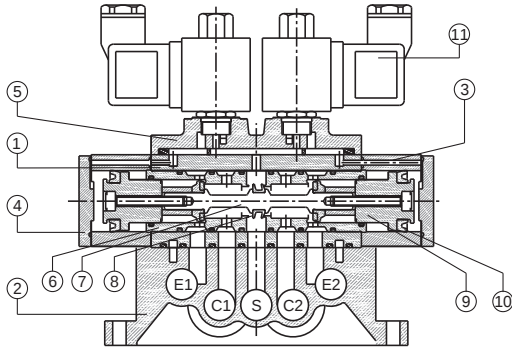
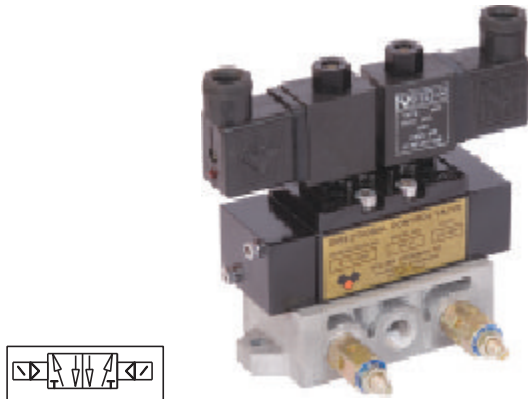
MATERIAL IDENTIFICATION:

S.NO.	DESCRIPTION	MATERIAL
1	Valve body	Aluminum
2	Sub base	Aluminum
3	Piston housing	Plastic
4	End cover	Aluminum
5	Top cover	Aluminum
6	Housing	Plastic
7	Guide Rod	Aluminum
8	Intel Seal	Plastic
9	Piston	Acetar resin
10	Piston Seal	Nitrile rubber
11	Solenoid Coil	Std.

ISO Size	Port Size	Ø D	F	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	W	Sub Base Code
ISO - 1	1/4" BSP	Ø5.5 - 2 Nos	1/4 BSP - 5 Nos	122	76	62	32	—	12.7	10	118	110	95	50	25	48	1
	3/8" BSP	Ø6.6 - 2 Nos	3/8 BSP - 5 Nos														2
ISO - 2	3/8" BSP	Ø6.6 - 2 Nos	3/8 BSP - 5 Nos	139	93	78	40	25	16.5	10	135	124	112	61	30	56	3
	1/2" BSP	Ø6.6 - 2 Nos	1/2" BSP - 5 Nos														4

ISO - 1 & 2 :

5 PORT 2 POSITION SUB BASE DOUBLE SOLENOID VALVE : 1/4" TO 1/2" BSP



SPECIFICATIONS :

Series	534 P
Operation	Poppet type, Solenoid operated
Function	5/2 (5 port 2position)
Medium	Compressed, Filtered air
Min working pressure	2.5 bar
Max working pressure	10 bar
Operating Temp.	5 to 60°c
Type of pilot	Internal pilot
Manual override	Rotary type
Coil insulation	Class - F
Voltage	Ac : 220v or 110v Dc: 24v
Power consumption	Ac : 7.5VA Dc : 6w
Permissible voltage variation	± 10 % of rated voltage
Protection structure	Dust proof
Type of Mounting	Sub base mounting

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ISO Size	Port Size	Ø D	F	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	W	Sub Base Code
ISO - 1	1/4" BSP	Ø5.5 - 2 Nos	1/4 BSP - 5 Nos	122	76	62	32	—	12.7	10	126	110	95	50	25	48	1
	3/8" BSP		3/8 BSP - 5 Nos														2
ISO - 2	3/8" BSP	Ø6.6 - 2 Nos	3/8 BSP - 5 Nos	139	93	78	40	25	16.5	10	145	124	112	61	30	56	3
	1/2" BSP		1/2" BSP - 5 Nos														4