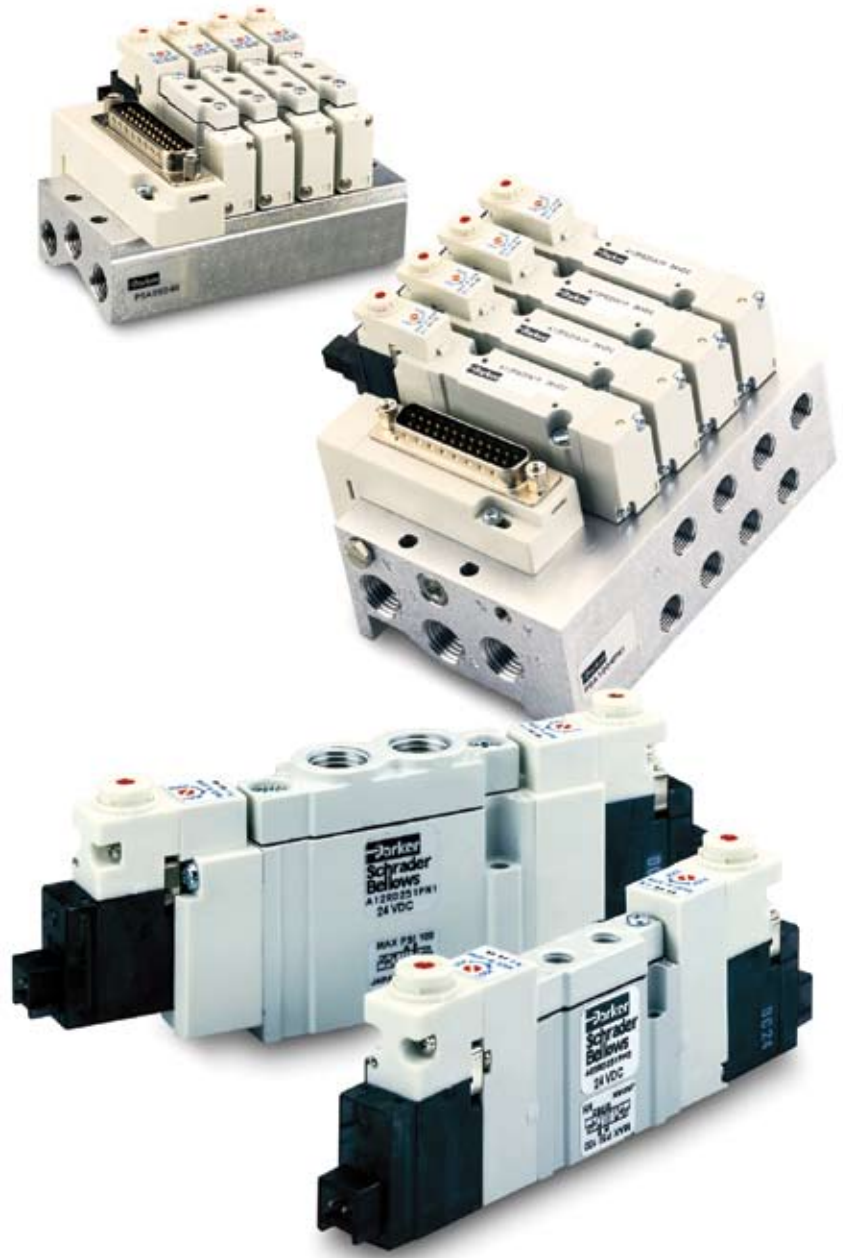




aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
**pneumatics**  
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# Adex

## Miniature Directional Control Valves

PDE2622TCUK June 2009




ENGINEERING YOUR SUCCESS.


# Summary

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**Important !**  
 Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



**NB !**  
 All technical data in this catalogue is typical only. The air quality is decisive for the valve life: see ISO 8573.



**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.  
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# A05 Series A12 Series

## Compact body with large flow

It allows flexibility on your applications saving space and reducing costs.

These series is most suitable for driving cylinders of Ø10 to Ø100 in diameter.

## Quick response time, faster than 10ms

(A05 series, Single solenoid)

Uniquely designed pilot valve with fast response time and low power consumption.

## Tested life time more than 50,000,000 times

(Based on Parker laboratory test conditions)

ADEX valves feature the well-reputed WCS (Wear Compensation System) in the main spool, resulting in low sliding friction and long service life.

## Low power consumption only 0,6W

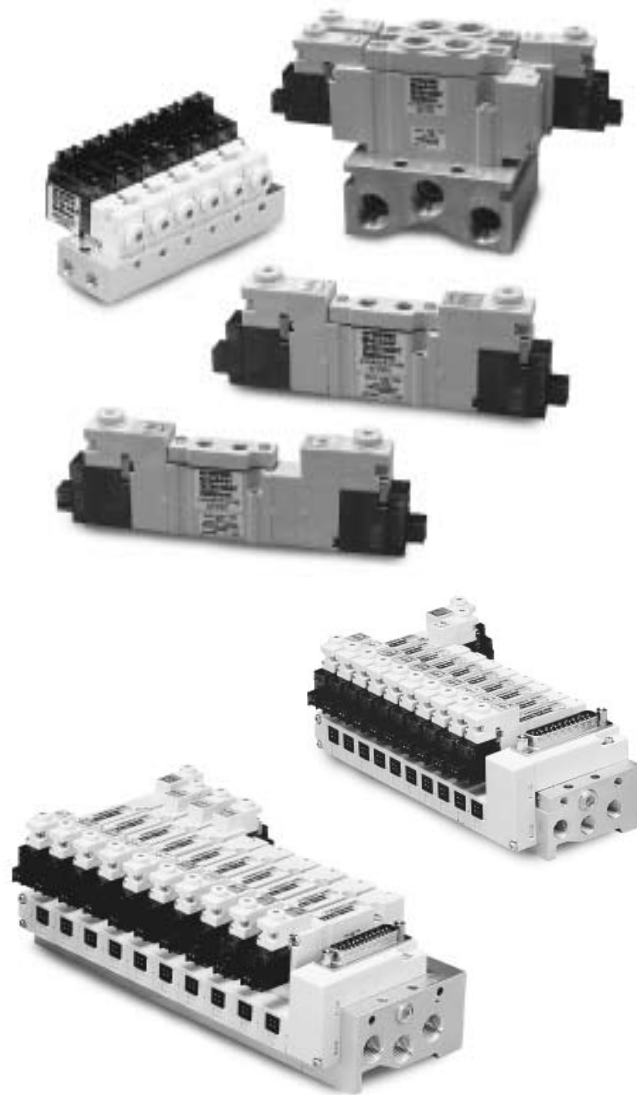
(With indicator light and surge suppressor)

Direct drive from PLC is possible, contributing to cost reduction as well as down sizing of the DC power supply.

## Multipin connector version

Connection by sub-D25 on sub-base.

## In-line or sub bases mounted (side ported) versions



### A05 5/2 and 5/3 versions

Body width **10 mm**

Output ports **M5**



### A12 5/2 and 5/3 versions

Body width **15 mm**

Output ports **G1/8**



## Captured exhaust from main valve and pilot valve

(Sub-base mounting type)

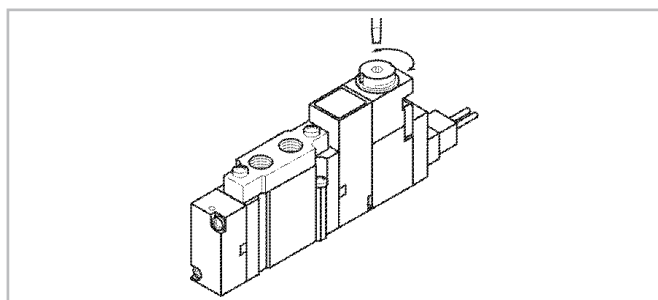
Exhaust air from pilot valve is captured together with exhaust air from main valve.

Unlike conventional exhaust systems, exhaust air from pilot valve is not directly discharged to outside.

This takes to prevent air contamination in the atmosphere.

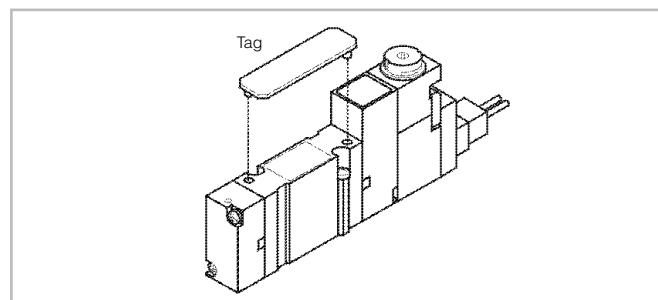
## Manual override

Screwdriver-operated manual override is standard.



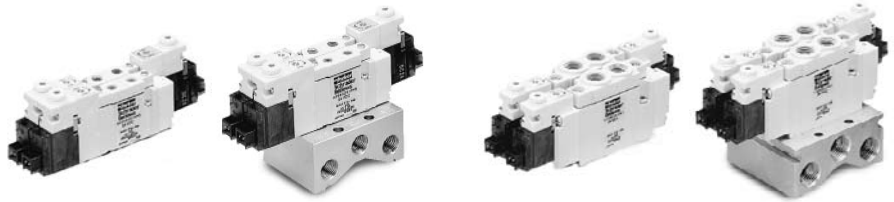
## Multipurpose tag available

For the convenience of installation, testing, maintenance tag can be mounted on the upside of solenoid valve body.



**Adex Miniature Directional Control Valves**

**In-line IEM Valves**



Series	A05R	A12R
Internal Pilot Supply	●	●
Single Solenoid 5/2	●	●
Double Solenoid 5/2	●	●
Closed Center 5/3	●	●
Vented Center 5/3	●	●
Pressurised Center 5/3	●	●
Indicator LED & Surge Suppressor	●	●
Manual Override	●	●
In-line Mounting	●	●
IEM Manifold Mounting	●	●
Sub-base Mounting		
Electrical Collective Wiring	●	●
Port Sizes	M5	G1/8

Diameter of controlled cylinder

Pressure : 5 bar

Load factor : 0.5

Cylinder speed m/s :                      0,15   0,30   0,45   0,60   0,75                      0,15   0,30   0,45   0,60   0,75

Tube length : 1 m

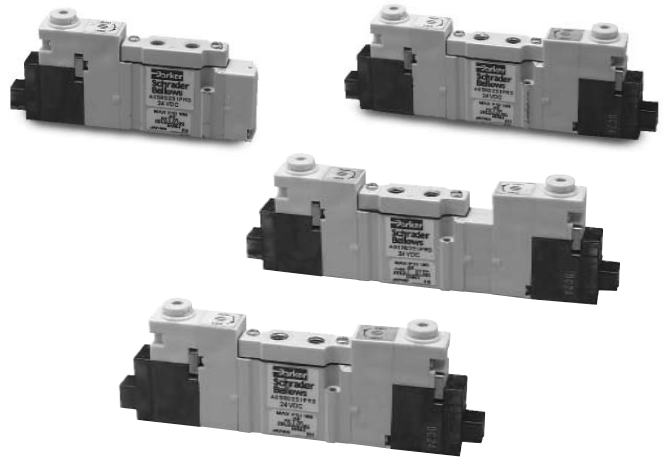
Tube diameter : A05 : 6 x 4 mm

A12 : 8 x 6 mm

Ø 6	■	■	■	■	■	■	■	■	■	■
Ø 10		■	■	■	■	■	■	■	■	■
Ø 16			■	■	■	■	■	■	■	■
Ø 20				■	■	■	■	■	■	■
Ø 25					■	■	■	■	■	■
Ø 32						■	■	■	■	■
Ø 40							■	■	■	■
Ø 50								■	■	■
Ø 63									■	■
Ø 80										■
Ø 100										



- 0,6 W low power solenoid
- Fast response time
- Vacuum version available on request
- Impulse and turn to lock manual override



**Operating information**

Working pressure : 5/2 monos. 1,5 to 7,1 bar  
 5/2 bistable 1 to 7,1 bar  
 5/3 CC, CV, CP 2 to 7,1 bar

Working temperature : -5°C to +50°C

Storage temperature : -40°C to +70°C

Fluid : air or gaz 50µm filtered  
 lubricated or not

Expected mechanical life  
 with dry air at 6 bar 20°C 1 Hz : 50 million cycles

Orientation : any plane

Maximum operating  
 frequency : cycles/min. : 5/2; 600 (10Hz) - 5/3; 500

Degree of protection : IP 40

Response time :

	(V DC)	Response time : ms		
		5/2 monos.	5/2 bi.	5/3
A05R	On	10	10	10
	Off	10	-	15
A12R	On	15	10	12
	Off	18	-	36
A05P	On	10	10	10
	Off	10	-	15
A12P	On	15	10	12
	Off	18	-	36

**Note** : Above mentioned datas apply for intermittent duty,  
 for continuous duty : please consult us.

Operating voltage : 12 and 24 VDC  
 -10% to +10% intermittent duty  
 and -10% to 0% continuous duty

Surge suppression : Diode for DC version

Consumption : 0,55 W (without LED)  
 0,6W (with LED indicator light)

Wiring : Connector 2,54mm pin spacing

\*Cv measurement : there are several ways to determine Cv valves,  
 resulting in some Cv been overstated by 20 to 40%. This can  
 adversely affect the user's application because the valve flows  
 less than the quoted Cv.

Parker's Cv valve is calculated using the ANSI (NFPA)  
 T3-21-3-1990 standard. The ANSI (NFPA) method is a structured  
 test using very specific tube sizes and lenght, inlet pressures,  
 pressures drop and volume chambers.

**Flow characteristics**

		5/2 monostable	5/2 bistable	5/3 close center
In-line IEM		<b>A05RS25</b>	<b>A05RD25</b>	<b>A05RD35</b>
A05	Cv*	0,17	0,17	0,16
In-line IEM		<b>A12RS25</b>	<b>A12RD25</b>	<b>A12RD35</b>
A12	Cv*	0,47	0,47	0,43
Sub-base		<b>A05PS25</b>	<b>A05PD25</b>	<b>A05PD35</b>
A05	Cv*	0,18	0,18	0,16
Sub-base		<b>A12PS25</b>	<b>A12PD25</b>	<b>A12PD35</b>
A12	Cv*	0,44	0,44	0,40



**Main data for directional control valves A05R and A12R series**

**Electrically actuated 5/2 single solenoid**



Symbol	Threaded connection	Voltage	Order code
	M5	24 VDC	<b>A05RS251PM5MF</b>
	G1/8	24 VDC	<b>A12RS251PG1MF</b>

**Electrically actuated 5/2 double solenoid**



Symbol	Threaded connection	Voltage	Order code
	M5	24 VDC	<b>A05RD251PM5MF</b>
	G1/8	24 VDC	<b>A12RD251PG1MF</b>

**Electrically actuated 5/3 closed center**



Symbol	Threaded connection	Voltage	Order code
	M5	24 VDC	<b>A05RD351PM5MF</b>
	G1/8	24 VDC	<b>A12RD351PG1MF</b>

**Electrically actuated 5/3 vented center**

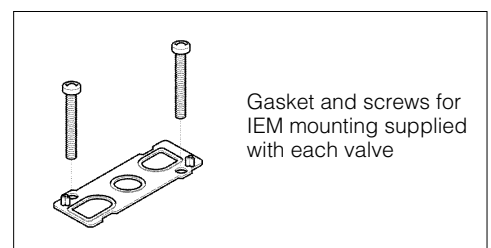


Symbol	Threaded connection	Voltage	Order code
	M5	24 VDC	<b>A05RE351PM5MF</b>
	G1/8	24 VDC	<b>A12RE351PG1MF</b>

**Electrically actuated 5/3 pressurised center**



Symbol	Threaded connection	Voltage	Order code
	M5	24 VDC	<b>A05R0351PM5MF</b>
	G1/8	24 VDC	<b>A12R0351PG1MF</b>



**Main data for manifolds for directional control valves A05R/A12R series**

**Manifold for in-line valve with individual electric connector**



No. of stations	Port size	Size	Order Code
4	M5	A05	<b>MMFU4A05G</b>
	G1/8	A12	<b>MMFU4A12G</b>
6	M5	A05	<b>MMFU6A05G</b>
	G1/8	A12	<b>MMFU6A12G</b>
8	M5	A05	<b>MMFU8A05G</b>
	G1/8	A12	<b>MMFU8A12G</b>
10	M5	A05	<b>MMFU10A05G</b>
	G1/8	A12	<b>MMFU10A12G</b>
12	M5	A05	<b>MMFU12A05G</b>
	G1/8	A12	<b>MMFU12A12G</b>

**Manifold for in-line valve with Sub-D collective wiring module**



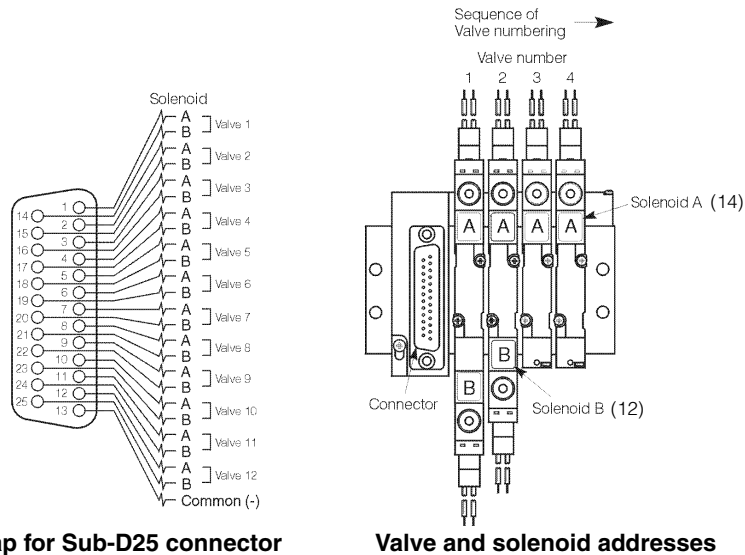
No. of stations	Port size	Size	Order Code
4	M5	A05	<b>MMCU4A05G</b>
	G1/8	A12	<b>MMCU4A12G</b>
6	M5	A05	<b>MMCU6A05G</b>
	G1/8	A12	<b>MMCU6A12G</b>
8	M5	A05	<b>MMCU8A05G</b>
	G1/8	A12	<b>MMCU8A12G</b>
10	M5	A05	<b>MMCU10A05G</b>
	G1/8	A12	<b>MMCU10A12G</b>
12	M5	A05	<b>MMCU12A05G</b>
	G1/8	A12	<b>MMCU12A12G</b>

**Collective wiring add-on module**



No. of stations	Size	Order Code
4	A05	<b>MCS4A05PDL</b>
	A12	<b>MCS4A12PDL</b>
6	A05	<b>MCS6A05PDL</b>
	A12	<b>MCS6A12PDL</b>
8	A05	<b>MCS8A05PDL</b>
	A12	<b>MCS8A12PDL</b>
10	A05	<b>MCS10A05PDL</b>
	A12	<b>MCS10A12PDL</b>
12	A05	<b>MCS12A05PDL</b>
	A12	<b>MCS12A12PDL</b>

**Collective wiring pin mapping**



**Pin map for Sub-D25 connector**

**Valve and solenoid addresses**



**Main data for directional control valves A05P/A12P series**

**Electrically actuated 5/2 single solenoid**



Symbol	Voltage	Size	Order code
	24 VDC	A05	<b>A05PS251P</b>
	24 VDC	A12	<b>A12PS251P</b>

**Electrically actuated 5/2 double solenoid**



Symbol	Voltage	Size	Order code
	24 VDC	A05	<b>A05PD251P</b>
	24 VDC	A12	<b>A12PD251P</b>

**Electrically actuated 5/3 closed center**



Symbol	Voltage	Size	Order code
	24 VDC	A05	<b>A05PD351P</b>
	24 VDC	A12	<b>A12PD351P</b>

**Electrically actuated 5/3 vented center**

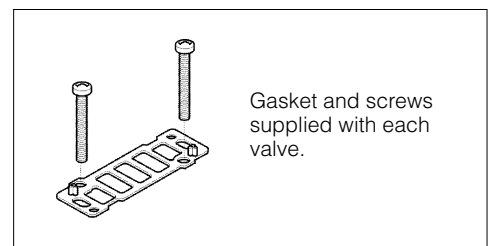


Symbol	Voltage	Size	Order code
	24 VDC	A05	<b>A05PE351P</b>
	24 VDC	A12	<b>A12PE351P</b>

**Electrically actuated 5/3 pressurised center**



Symbol	Voltage	Size	Order code
	24 VDC	A05	<b>A05P0351P</b>
	24 VDC	A12	<b>A12P0351P</b>



## Main data for manifolds for directional control valves A05P/A12P series

Manifold side ported BSPP thread, for valves with individual electrical wiring



No. of stations	Port size	Size	Order Code
4	M5	A05	<b>MMFS4A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMFS4A12GG1</b>
6	M5	A05	<b>MMFS6A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMFS6A12GG1</b>
8	M5	A05	<b>MMFS8A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMFS8A12GG1</b>
10	M5	A05	<b>MMFS10A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMFS10A12GG1</b>
12	M5	A05	<b>MMFS12A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMFS12A12GG1</b>

Manifold side ported BSPP thread, for Sub D-collective wiring module




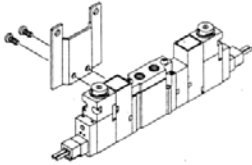
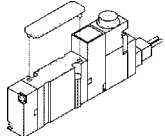
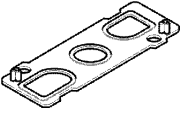
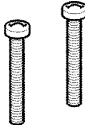

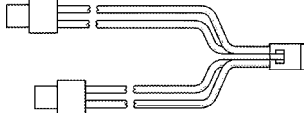
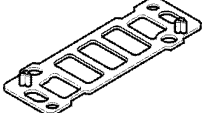
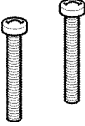
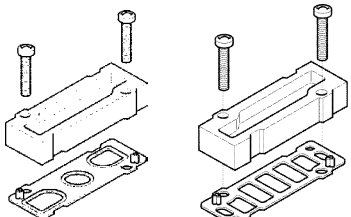
No. of stations	Port size	Size	Order Code
4	M5	A05	<b>MMCS4A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMCS4A12GG1</b>
6	M5	A05	<b>MMCS6A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMCS6A12GG1</b>
8	M5	A05	<b>MMCS8A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMCS8A12GG1</b>
10	M5	A05	<b>MMCS10A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMCS10A12GG1</b>
12	M5	A05	<b>MMCS12A05GM5</b>
	G <sup>1</sup> / <sub>8</sub>	A12	<b>MMCS12A12GG1</b>

Collective wiring add-on module (supplied with mounting screws) for MMCS... manifolds

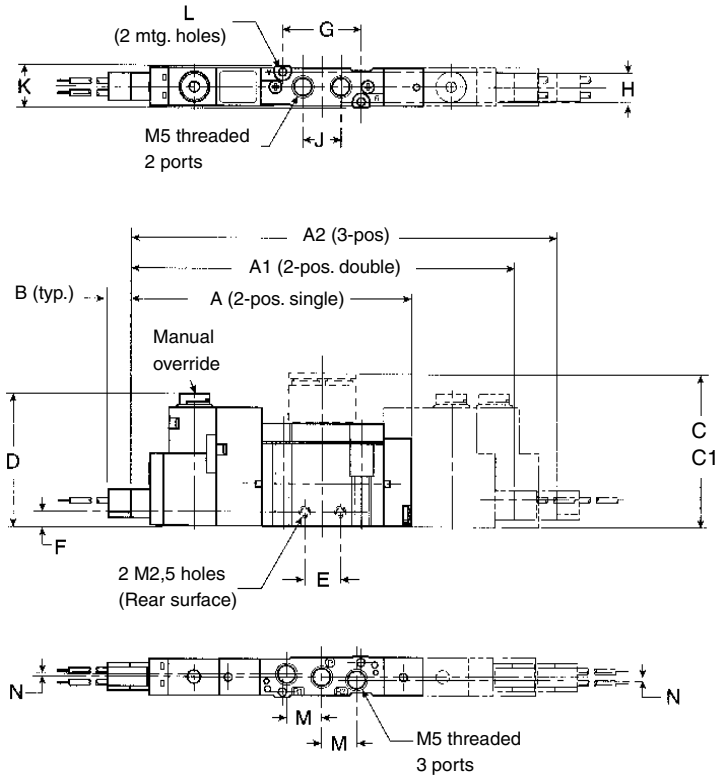


No. of stations	Size	Order Code
4	A05	<b>MCS4A05PDL</b>
	A12	<b>MCS4A12PDL</b>
6	A05	<b>MCS6A05PDL</b>
	A12	<b>MCS6A12PDL</b>
8	A05	<b>MCS8A05PDL</b>
	A12	<b>MCS8A12PDL</b>
10	A05	<b>MCS10A05PDL</b>
	A12	<b>MCS10A12PDL</b>
12	A05	<b>MCS12A05PDL</b>
	A12	<b>MCS12A12PDL</b>

For wiring pin mapping see page 8

	Description	Order code
	Connector with lead wire black (-), red (+), length 500mm	<b>A05PDCCL5</b>
	Connector with lead wire black (-), red (+), length 1000mm	<b>A05PDCCL10</b>
	Mounting bracket A05R (1 bracket with 2 screws)	<b>A05RBS</b>
	Mounting bracket A12R (1 bracket with 2 screws)	<b>A12RBS</b>
	Identification tag for sub-base valves (pack of 10)	<b>A05PN</b>
	IEM gasket (pack of 10) for A05R/A12R	<b>A05RG A12RG</b>
	IEM mounting screws (pack of 20) for A05R/A12R	<b>A05RS A12RS</b>
	Collective wiring connector Single solenoid PNP	<b>A05PSCCM A12PSCCM</b>
	Collective wiring connector Double solenoid PNP	<b>A05PDCCM A12PDCCM</b>
	Sub-base gasket (pack of 10) for A05P/A12P	<b>A05PG A12PG</b>
	Sub-base mounting screws (pack of 20) for A05P/A12P	<b>A05PS A12PS</b>
	IEM blanking plate kit (pack of 5)	<b>A05RGBP A12RGBP</b>
	Sub-base blanking plate kit (pack of 5)	<b>A05PGBP A12PGBP</b>

**A05R - Single and double operators - Body ported**

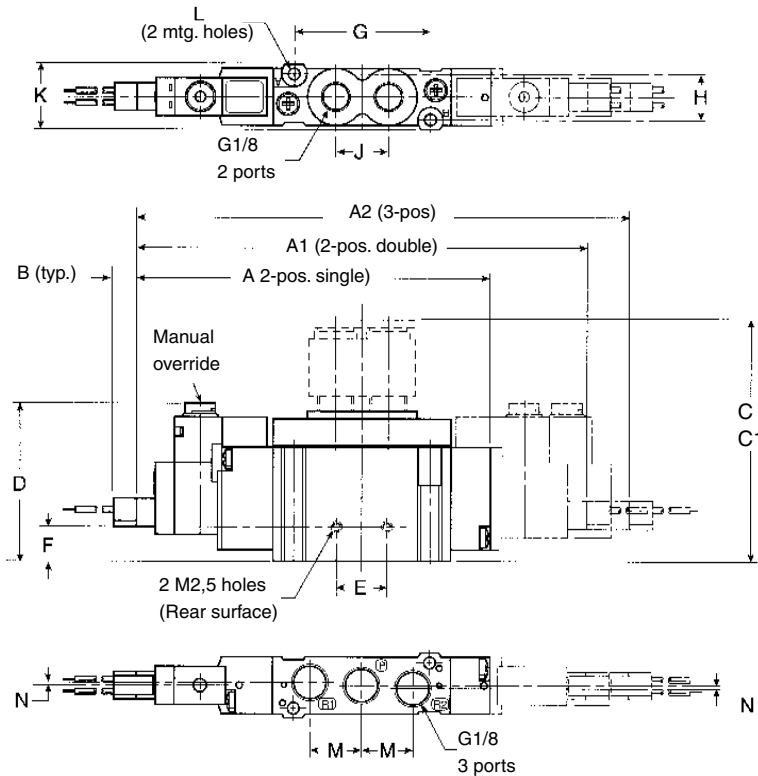


**A05R - Body ported**

<b>A</b> 74	<b>A1</b> 100	<b>A2</b> 108	<b>B</b> 6	<b>C</b> -
<b>C1</b> -	<b>D</b> 34,6	<b>E</b> 9,6	<b>F</b> 4	<b>G</b> 21
<b>H</b> 8,5	<b>J</b> 10,2	<b>K</b> 11,4	<b>L</b> Ø2,1	<b>M</b> 9,5
<b>N</b> 1				

Dimensions in mm

**A12R - Single and double operators - Body ported**

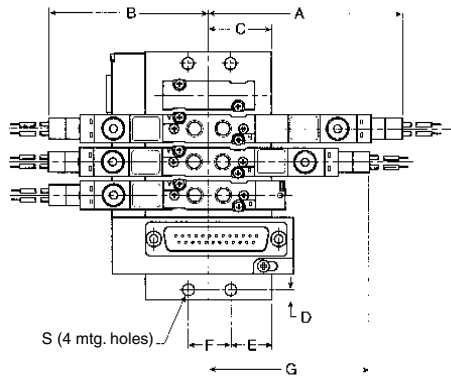


**A12R - Body ported**

<b>A</b> 93,5	<b>A1</b> 119	<b>A2</b> 130	<b>B</b> 6	<b>C</b> -
<b>C1</b> -	<b>D</b> 41,6	<b>E</b> 13,4	<b>F</b> 9	<b>G</b> 36
<b>H</b> 12	<b>J</b> 14	<b>K</b> 17,2	<b>L</b> Ø3,1	<b>M</b> 13,6
<b>N</b> 0,8				

Dimensions in mm

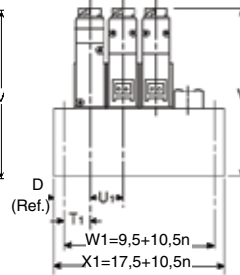
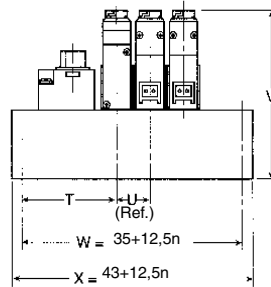
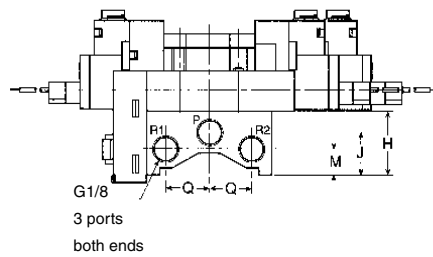
**A05R - Manifold - Valve body ports**



**A05R - Manifold - valve body port**

<b>A</b> 64	<b>B</b> 56	<b>C</b> 23,5	<b>D</b> 4	<b>E</b> 15,5
<b>F</b> 16	<b>G</b> 56	<b>H</b> 24	<b>J</b> 15,5	<b>M</b> 9,5
<b>Q</b> 16	<b>S</b> Ø4,5	<b>T</b> 34	<b>T1</b> 10	<b>U</b> 12,5
<b>U1</b> 10,5	<b>V</b> 63			

Dimensions in mm

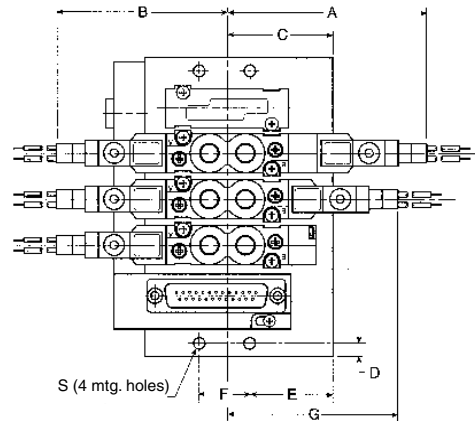


n = number of stations

**MMCU...**

**MMFU...**

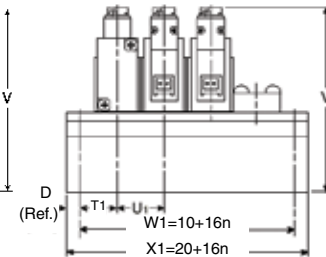
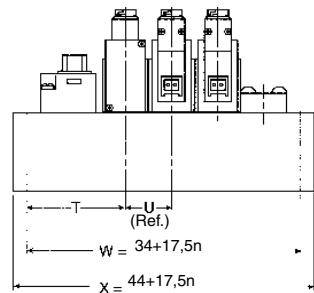
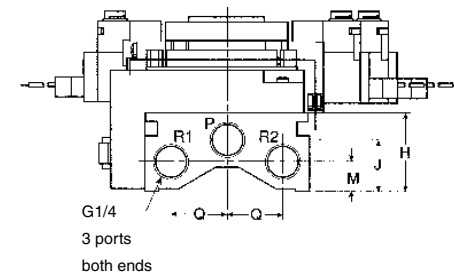
**A12R - Manifold - Valve body ports**



**A12R - Manifold - Valve body port**

<b>A</b> 77	<b>B</b> 66	<b>C</b> 29	<b>D</b> 5	<b>E</b> 19,2
<b>F</b> 19,6	<b>G</b> 66	<b>H</b> 27,5	<b>J</b> 18	<b>M</b> 10,5
<b>Q</b> 19,5	<b>S</b> Ø4,5	<b>T</b> 37,5	<b>T1</b> 12,2	<b>U</b> 17,5
<b>U1</b> 16	<b>V</b> 70			

Dimensions in mm

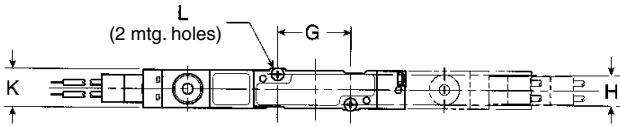


n = number of stations

**MMCU...**

**MMFU...**

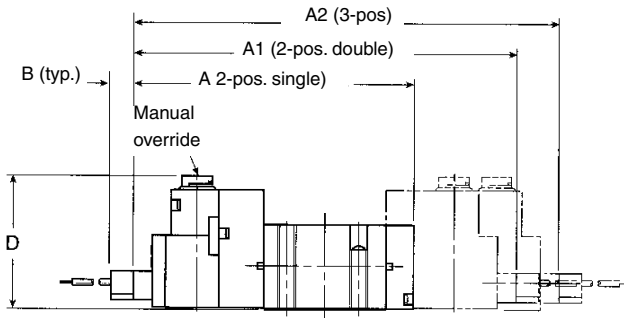
**A05P - Single and double operators - Sub-base**



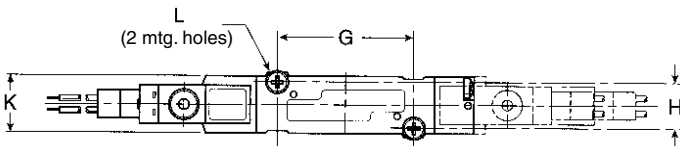
**A05P - Subbase**

<b>A</b> 74	<b>A1</b> 100	<b>A2</b> 108	<b>B</b> 6	<b>D</b> 35,1
<b>G</b> 19	<b>H</b> 8,5	<b>K</b> 10	<b>L</b> Ø2,1	

Dimensions in mm



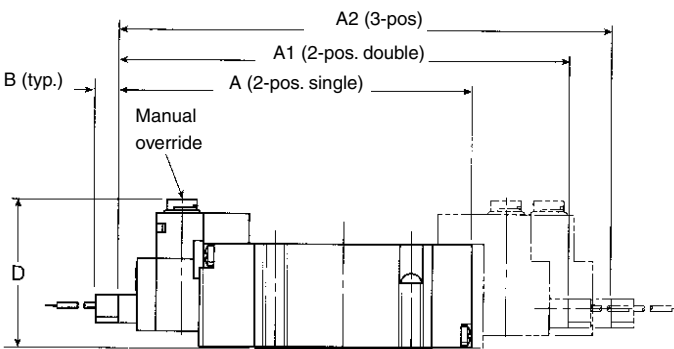
**A12P - Single and double operators - Sub-base**



**A12P - Subbase**

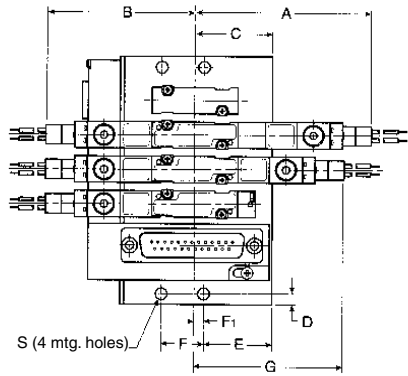
<b>A</b> 93,5	<b>A1</b> 119	<b>A2</b> 130	<b>B</b> 6	<b>D</b> 39,1
<b>G</b> 34	<b>H</b> 12	<b>K</b> 15	<b>L</b> Ø3,1	

Dimensions in mm





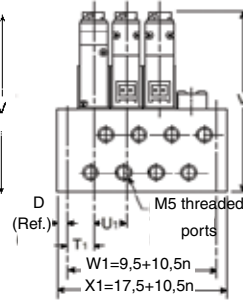
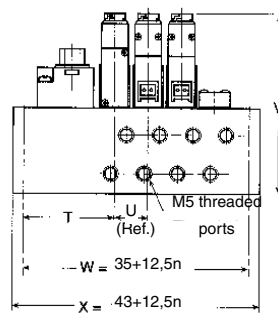
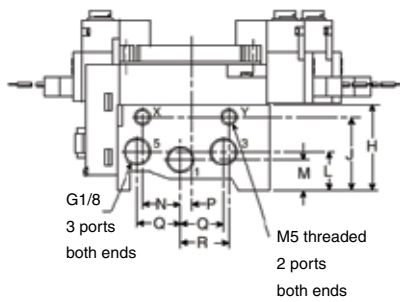
**A05P - Manifold - Side ports**



**A05P - Manifold - Side ports**

<b>A</b> 64	<b>B</b> 56	<b>C</b> 30,2	<b>D</b> 4	<b>E</b> 25,5
<b>F</b> 16	<b>F1</b> 4,7	<b>G</b> 56	<b>H</b> 32	<b>J</b> 28
<b>L</b> 14,5	<b>M</b> 11,5	<b>N</b> 14	<b>P</b> 3	<b>Q</b> 16
<b>R</b> 18	<b>S</b> Ø4,5	<b>T</b> 33,8	<b>T1</b> 10	<b>U</b> 12,5
<b>U1</b> 10,5	<b>V</b> 67			

Dimensions in mm

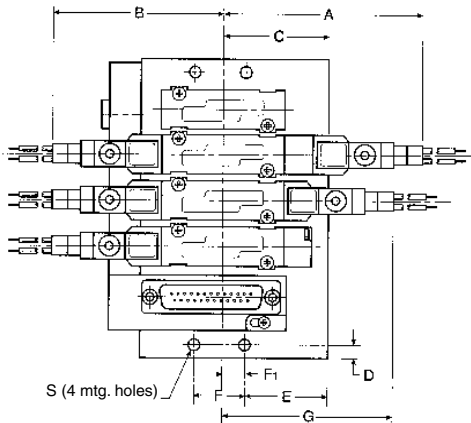


n = number of stations

**MMCS...**

**MMFS...**

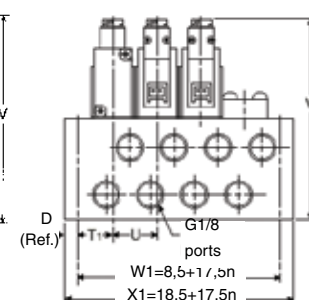
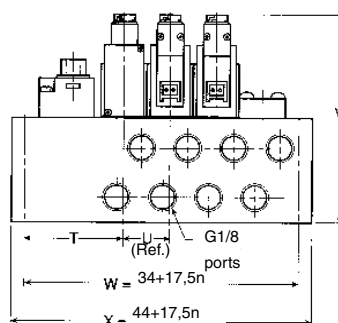
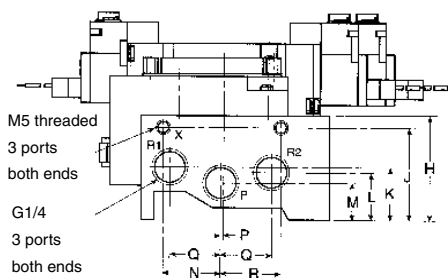
**A12P - Manifolds - Side ports**



**A12P - Manifold - Side ports**

<b>A</b> 77	<b>B</b> 66	<b>C</b> 40,4	<b>D</b> 5	<b>E</b> 31,7
<b>F</b> 19,6	<b>F1</b> 11	<b>G</b> 66	<b>H</b> 39,5	<b>J</b> 35
<b>K</b> 20,5	<b>L</b> 18	<b>M</b> 14	<b>N</b> 22	<b>P</b> 1
<b>Q</b> 19,5	<b>R</b> 23	<b>S</b> Ø4,5	<b>T</b> 37,2	<b>T1</b> 12,7
<b>U</b> 17,5	<b>V</b> 79			

Dimensions in mm



n = number of stations

**MMCS...**

**MMFS...**

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