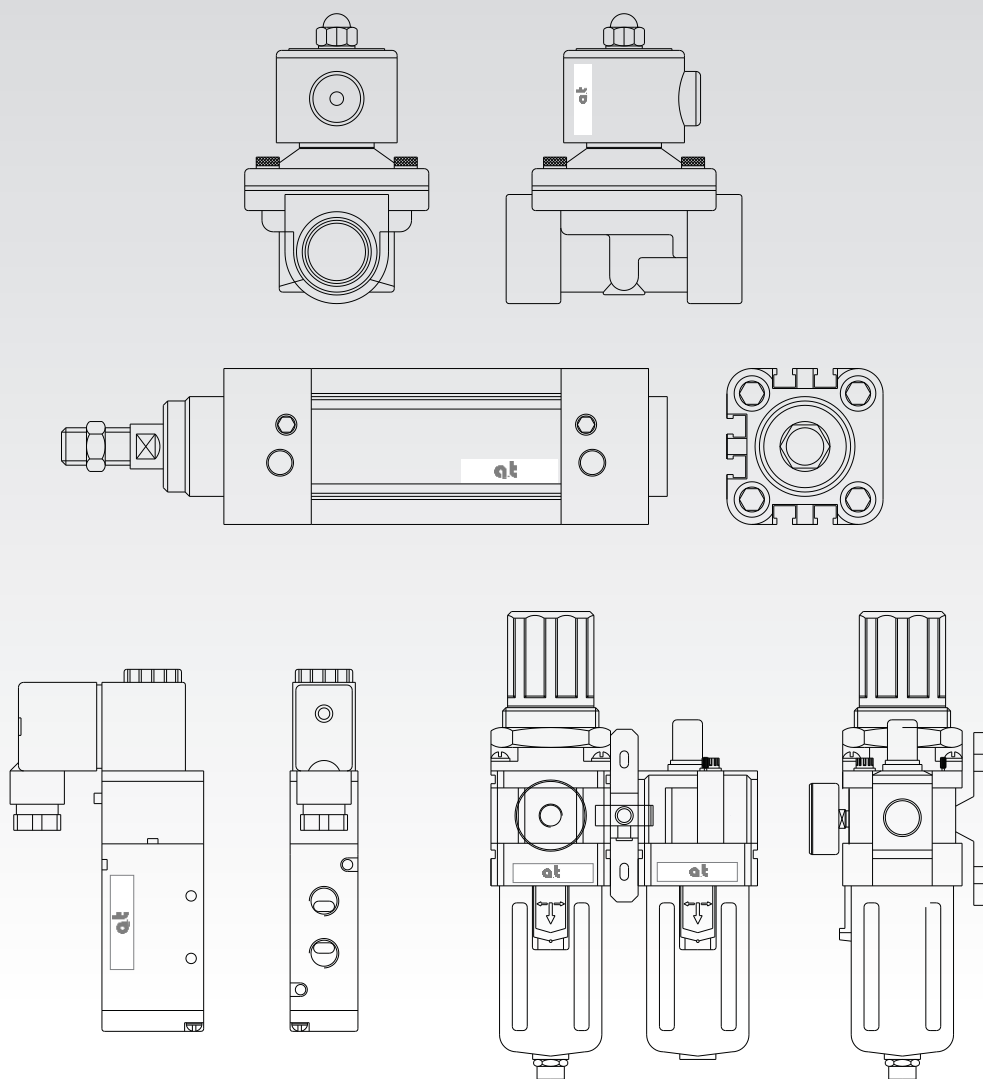


Pneumatic

pneumatic solution provider



Cylinders
Service Units
Solenoid Valves
Fittings & Tubings
General Purpose Valves



Atech Pneumatik Co. Ltd.

No. 01 Yonghe Road Industry Zone, Xikou Ningbo China 315502

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Email: sales@at-technical.com

COMPANY

Brief INTRODUCTION

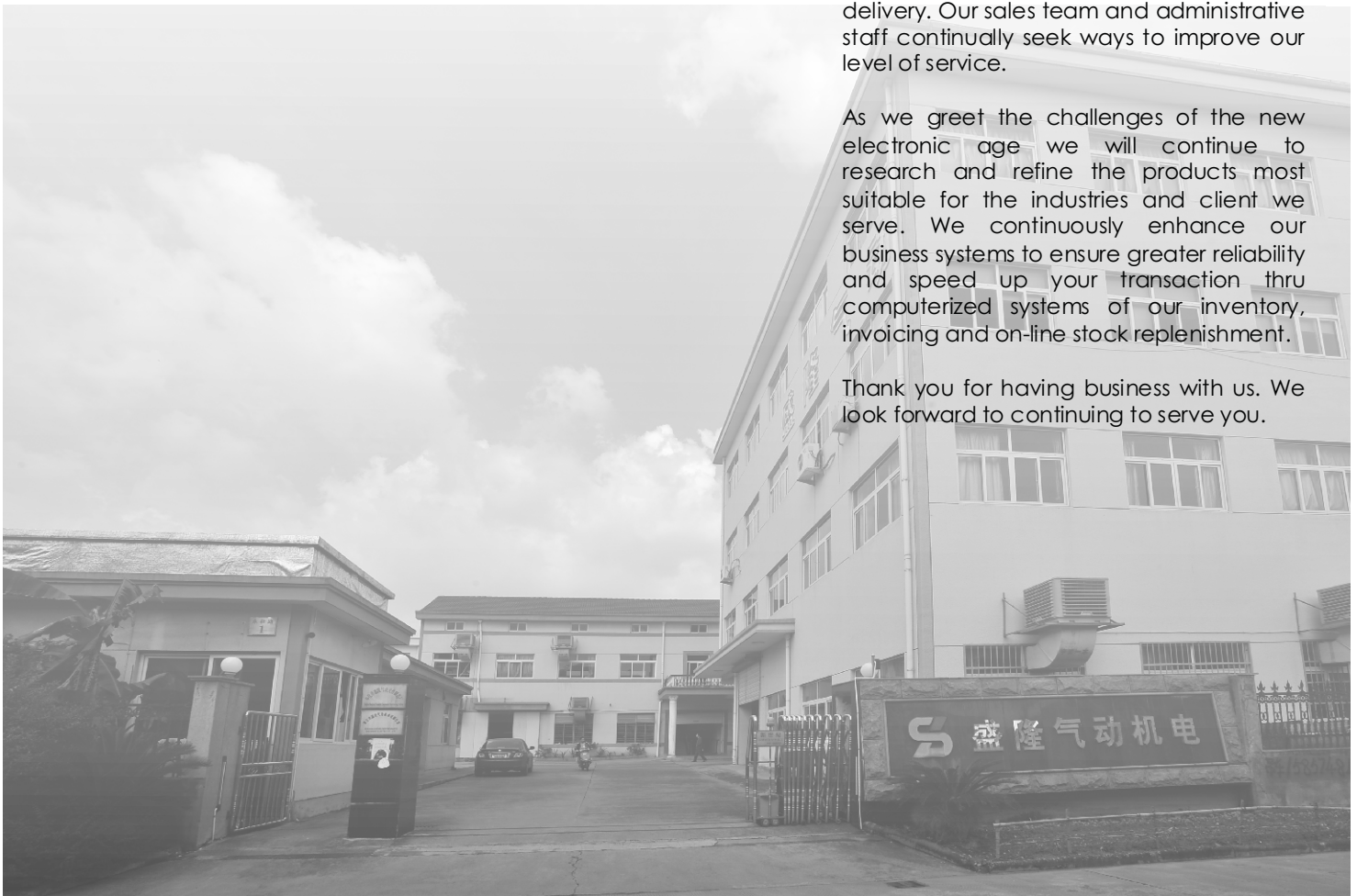


Atech Pneumatik Co. Ltd. was initially founded in 2003 and formerly known as Ningbo AT Technical Machinery Co. Ltd. And later converted as Atech Pneumatic Co. Ltd., this is to facilitate the better and bigger operation/finances/technical aspect with the cooperation of foreign companies. For us to have own identity in the field of pneumatic industry here and to be known internationally; the company registered/establish its own trade mark of **Atech Pneumatik**. While the company began its operation and manufacturing of pneumatics components to handle Industrial Automation and remains committed with this purpose, we have expanded our products line this to includes the general purpose valves.

At **Atech Pneumatik**, we are particularly proud of our employee's commitment to provide best after sales service, honest/competitive pricing and prompt delivery. Our sales team and administrative staff continually seek ways to improve our level of service.

As we greet the challenges of the new electronic age we will continue to research and refine the products most suitable for the industries and client we serve. We continuously enhance our business systems to ensure greater reliability and speed up your transaction thru computerized systems of our inventory, invoicing and on-line stock replenishment.

Thank you for having business with us. We look forward to continuing to serve you.



Pneumatic Components



Standard Cylinder
ISO Profile Cylinder
Aluminum Round Cylinder
Stainless Steel Round Cylinder
ISO/DIN Stainless Steel Round Cylinder
Piston Rod Adaptor & Cylinder Mountings
Filter Regulator and Lubricator
Directional Solenoid Valves
Directional Air Pilot Valves
Fittings & Tubings



Standard Double Acting Cylinder

SU Cylinder with Reed Switch



SU Cylinder



SC Cylinder with Reed Switch



SC Cylinder



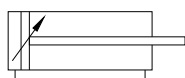
Ordering Code

SC - D - 32 X 50 - S - 25

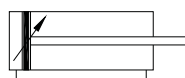
- SC** - Tie Rod Cylinder
- SU** - Profile Cylinder
- Blank** - Basic Cylinder
- D** - Thru Rod Cylinder
- J** - Thru Rod Cylinder with Adjustable Stroke
- 32** - Cylinder Bore Diameter
- 50** - Stroke Length
- Blank** - Non-magnetic Piston
- S** - Magnetic Piston
- 25** - Stroke Adjustment Length

SC/SU Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

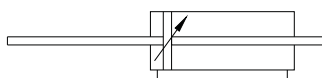
With Adjustable Cushioning



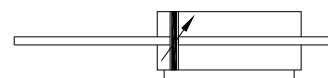
With Adjustable Cushioning & Magnet



Thru Rod with Adjustable Cushioning



Thru Rod with Adjustable Cushioning & Magnet



SC / SU Pneumatic Cylinder Specification

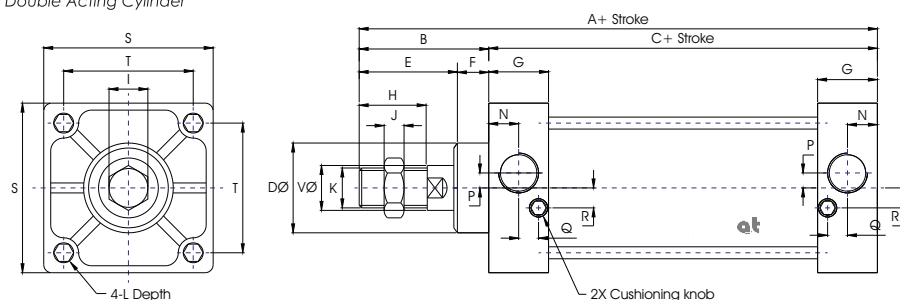
Bore Diameter	32	40	50	63	80	100	125	160	200
Action	Double Acting								
Working Medium	Air								
Working Pressure	10 kg/cm ²								
Test Pressure	13 Kg/cm ²								
Working Temperature	0 - 70 °C								
Working Speed Range	50~800 mm/sec								
Cushioning	Adjustable								
Cushioning Adjustment (mm)	20				26				45
Port Size	G1/8"	G1/4"		G3/8"		G1/2"		G3/4"	

Theoretical Force Table

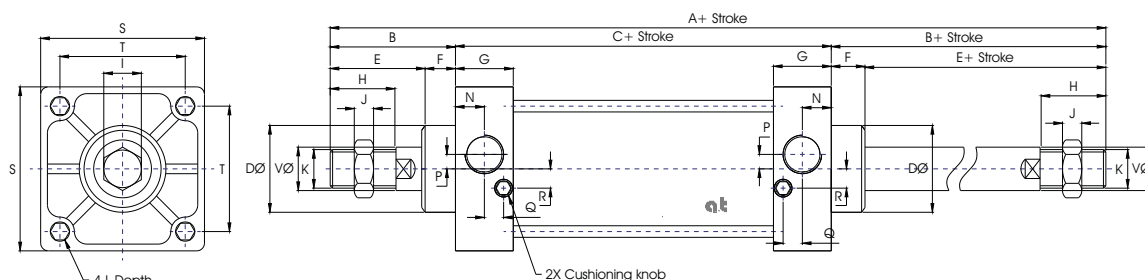
Bore Diameter		32		40		50		63		80		100		125		160		200	
Piston Rod Diameter		12		16		20		20		25		25		32		40		40	
Cylinder Type		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting	
		Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side
Air Pressure Kg/cm ²	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20	402.00	376.80	628.40	602.80
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80	603.00	565.20	942.60	904.20
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40	804.00	753.60	1,256.80	1,205.60
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00	1,005.00	942.00	1,571.00	1,507.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60	1,206.00	1,130.40	1,885.20	1,808.40
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20	1,407.00	1,318.80	2,199.40	2,109.80
	8	64.32	55.20	100.48	84.40	157.41	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80	1,608.00	1,507.20	2,513.60	2,411.20
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1,104.30	1,031.40	1,809.00	1,695.60	2,827.80	2,712.60

Standard Double Acting Cylinder

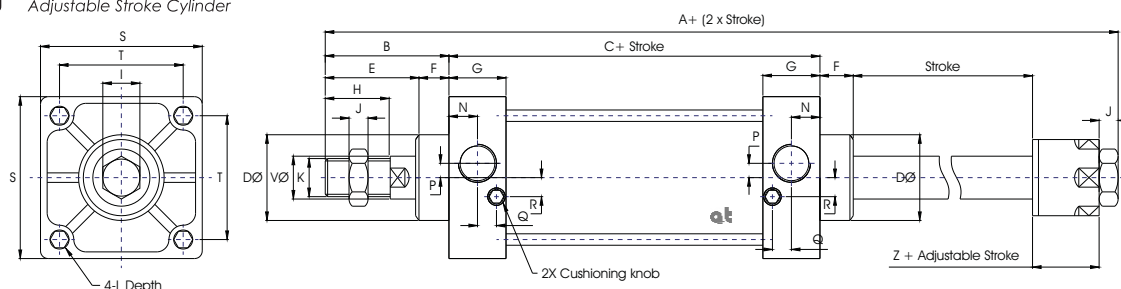
SC / SU Double Acting Cylinder



SCD / SUD Thru Rod Cylinder



SCJ / SUJ Adjustable Stroke Cylinder



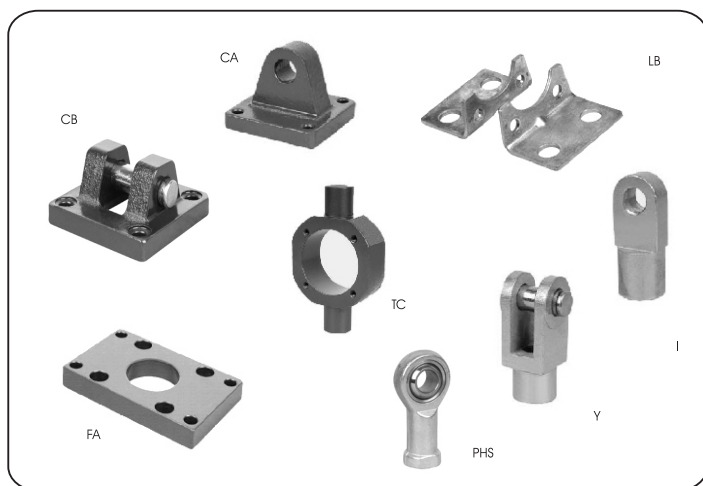
SC / SU Pneumatic Cylinder Dimension

Bore Diameter	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10 X 1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12 X 1.25
50	150	207	196	57	93	38	42	15	27.5	32	23	8	M16 X 1.5
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16 X 1.5
80	183	258	243	75	108	47	54	21	33	40	26	10	M20 X 1.5
100	189	264	249	75	114	47	54	21	33	40	26	10	M20 X 1.5
125	226	-	-	104	122	55	70	34	33	54	40	10	M27 X 2
160	291	-	-	123	168	62	91	32	50	72	55	18	M36 X 2
200	347	-	-	167	180	80	112	55	50	72	55	18	M36 X 2

SC / SU Pneumatic Cylinder Dimension

Bore Diameter	M	N	O	P	Q	R	S	T	V	W	Z	L
32	9.5	13.5	G1/8	3.5	7.5	7	45	33	12	12	21	M6 X 1
40	9.5	1.5	G1/4	6	8.2	9	50	37	16	14	21	M6 X 1
50	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17	23	M6 X 1
63	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17	23	M8 X 1.25
80	11.5	16.5	G6/8	10	9.5	14	94	70	25	22	29	M10 X 1.5
100	11.5	16.5	G1/2	11	9.5	14	112	84	25	22	29	M10 X 1.5
125	15.5	16.5	G1/2	-	-	-	14	110	32	27	-	M12 X 1.75
160	17.5	25	G1/2	-	-	-	180	140	40	36	-	M16 X 2
200	17.5	25	G3/4	-	-	-	220	175	40	36	-	M16 X 2

Cylinder Mountings and Piston Rod Adaptors



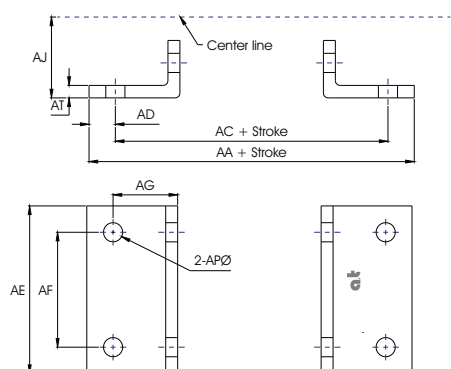
Ordering Code

SC - LB - 32

- SC - Tie Rod Type Pneumatic Cylinder
- SU - Profile Type Pneumatic Cylinder
- LB - Foot Mounting
- FA - Front / Rear Mounting
- CA - Male Clevis Mounting
- CB - Female Clevis Mounting
- TC - Trunnion Mounting
- Y - Y-Knuckle Piston Rod Adaptor
- I - I-Knuckle Piston Rod Adaptor
- 32 - Cylinder Bore Diameter

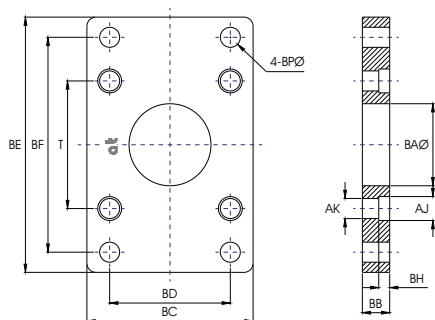
SC/SU Pneumatic Cylinder mountings and Piston rod adaptors are made of Low Carbon Steel materials.

SC/SU - LB Foot Mounting



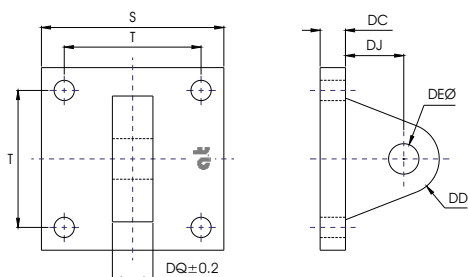
SC/SU - LB Dimension									
Bore Diameter	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	213	288	320
AD	9.5	14.5	12	12	16	18	18	20	30
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	22
AT	3.2	3.2	3.2	3.2	4	4	8	8	10

SC/SU - FA Flange Mounting



SC/SU - FA Dimension									
Bore Diameter	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81
BB	10	10	10	12	16	16	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20
AJ	10.5	10.5	10.5	13.5	16.6	16.6	19	25	25
AK	6.5	6.5	6.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175

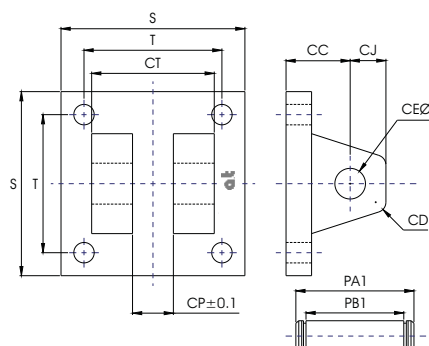
SC/SU - CA Male Clevis Mounting



SC/SU - CA Dimension								
Bore Diameter	32	40	50	63	80	100	125	200
S	48	50	62	75	94	112	140	220
T	33	37	47	56	70	84	110	175
DC	34	34	34	34	48	48	50	60
DD	14	14	15	15	20	20	25	30
DE	12	14	14	14	20	20	25	30
DJ	14	14	15	15	20	20	25	30
DQ	16	20	20	20	32	32	70	90

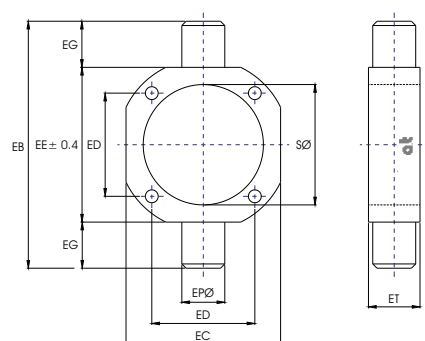
Cylinder Mountings and Piston Rod Adaptors

SC/SU - CB Female Clevis Mounting



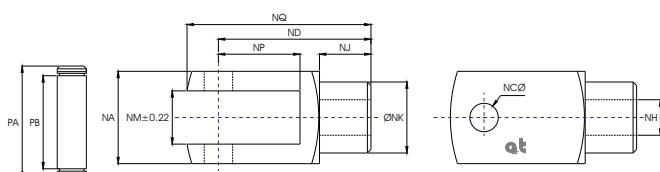
SC/SU - CB Dimension									
Bore Diameter	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	3	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
PAI	41	51.8	60.3	60.3	73.8	73.8	130	170	170
PBI	33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175

SC/SU - TC Trunnion Mounting

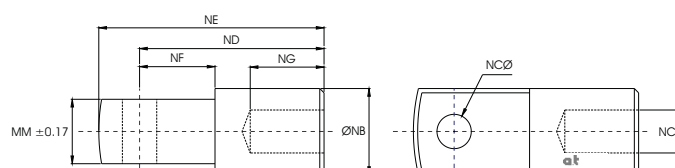


TC Dimension								
Bore Diameter	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	336
EC	63	76	88	114	132	160	200	245
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	245
EG	25	25	25	25	25	25	32	35
EP	25	25	25	25	25	30	32	32
ET	30	30	30	35	40	38	38	52
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

Y Piston Rod Adaptor

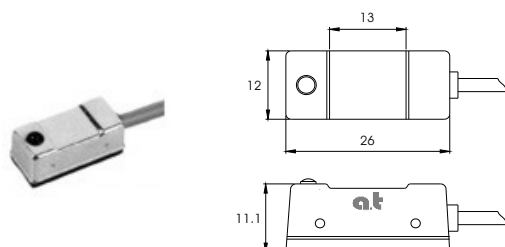


I Piston Rod Adaptor



Piston Rod Adaptor Dimension															
Bore Diameter	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10 X 1.25	12	18	10	20	52	26.2	20
40	25.4	24	12	48	67	24	20	M12 X 1.25	20	23	12	24	62	32.8	26.5
50	32	32	16	64	89	32	23	M16 X 1.5	22	30	16	32	83	39.3	33
63	32	32	16	64	89	32	23	M16 X 1.5	22	30	16	32	83	39.3	33
80	44.4	40	20	80	112	40	30	M20 X 1.5	30	39	20	40	105	53.3	45
100	44.4	40	20	80	112	40	30	M20 X 1.5	30	39	20	40	105	53.3	45

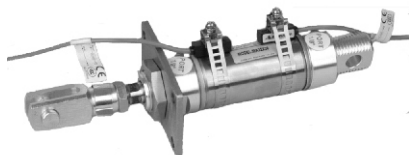
SC / SU Series Magnetic Switch and Holder



Reed Switch Specification						
Model	Contact Type	Voltage	Current	Response Time	Indicator	Wire
AT21-RS	Reed Switch	5 to 240Vac	5 to 60mA	1msec max.	LED	2M
		5 to 110Vdc				
AT21-NPN	NPN	5 to 30 Vdc				
AT21-PNP	PNP					

MA Series Stainless Steel Cylinder

MA Cylinder with Reed Switch



MA Stainless Steel Cylinder



MA Stainless Steel Cylinder

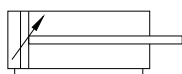


Ordering Code

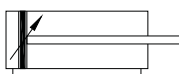
MA	-	U - 20 X 50 - S - 25
MA	-	Double Acting Cylinder
MAD	-	Double Acting Thru Rod Cylinder
MAJ	-	Double Acting with Adjustable Stroke Cylinder
MAS	-	Single Acting Cylinder Normally Retracted
MASE	-	Single Acting Cylinder Normally Extended
U	-	Flat End Mounting
CM	-	Round End Mounting
Blank	-	Standard Mounting
20	-	Bore Diameter
50	-	Stroke
S	-	Magnetic Piston
Blank	-	Non-Magnetic Piston
25	-	Stroke Adjustment for MAJ

MA Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

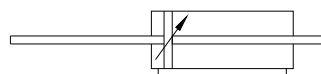
With Cushioning



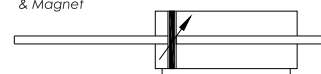
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



Thru Rod w/ Cushioning & Magnet



MA Pneumatic Cylinder Specification

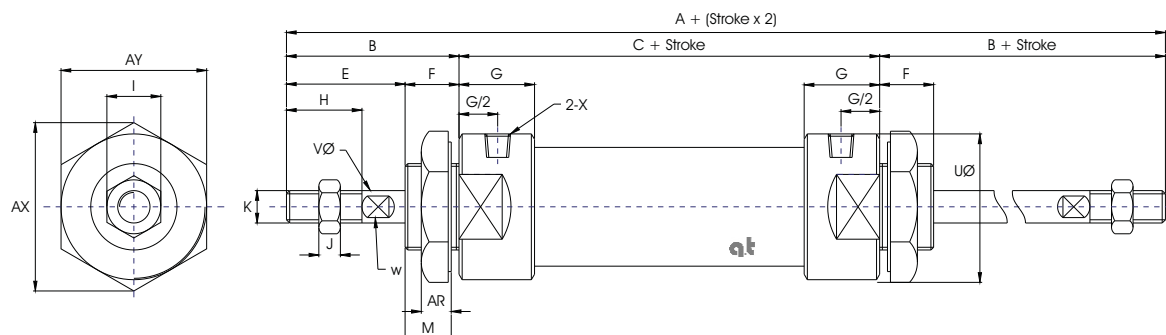
Bore Diameter	16	20	25	32	40
Action	Double Acting / Single Acting				
Working Medium	Air				
Working Pressure	10 kg/cm ²				
Test Pressure	13 Kg/cm ²				
Working Temperature	0 - 70 °C				
Working Speed Range	50~800 mm/sec				
Cushioning	Rubber Bumper				
Port Size	M5	G1/8"			G1/4"

Theoretical Force Table

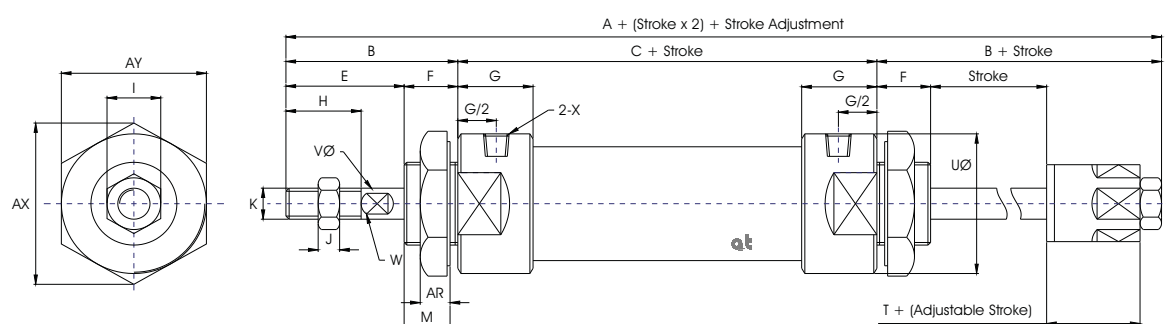
Bore Diameter		16			20			25			32			40		
Piston Rod Diameter		6			8			10			12			16		
Motion Pattern		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting	
			Push Side	Pull Side		Push Side	Pull Side		Push Side	Pull Side		Push Side	Pull Side			
Air Pressure (Kg/cm ²)	1	-	2.01	1.81	-	3.14	2.64	-	4.90	4.12	-	8.04	6.90	-	12.56	10.55
	2	-	4.02	3.62	1.57	6.28	5.28	2.45	9.80	8.24	4.02	16.08	13.80	6.28	25.12	21.10
	3	2.01	6.03	5.43	4.71	9.42	7.92	7.35	14.70	12.36	12.06	24.12	20.70	18.84	37.68	31.65
	4	4.02	8.04	7.24	7.85	12.56	10.56	12.25	19.60	16.48	20.10	32.16	27.60	31.40	50.24	42.20
	5	6.03	10.05	9.05	10.99	15.70	13.20	17.15	24.50	20.60	28.14	40.20	34.50	43.96	62.80	52.75
	6	8.01	12.06	10.86	14.13	18.84	15.84	22.05	29.40	24.72	36.18	48.24	41.40	56.52	75.36	63.30
	7	10.04	14.07	12.67	17.27	21.98	18.48	26.95	34.30	28.84	44.22	56.28	48.30	69.08	87.92	73.85
	8	-	-	-	20.41	25.12	21.12	31.85	39.20	32.96	52.26	64.32	55.20	81.64	100.48	84.40
	9	-	-	-	23.55	28.26	23.76	36.75	44.10	37.08	60.30	72.36	62.10	94.20	113.04	94.95

MA Series Stainless Steel Double Acting Cylinder

MAD Thru Rod Cylinder



MAJ Adjustable Stroke Cylinder



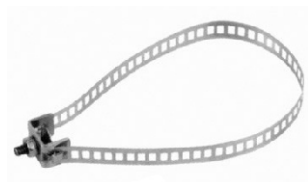
MA Pneumatic Cylinder Dimension

Bore Diameter	A	A1	B	C	E	F	G	H	I	J	K	L
20	156	153	40	70	28	12	16	20	12	6	M8 X 1.25	M22 X 1.5
25	164	161	44	70	30	14	16	22	17	6	M10 X 1.25	M22 X 1.5
32	164	161	44	70	30	14	16	22	17	6	M10 X 1.25	M24 X 1.5
40	168	164	46	92	32	14	22	24	17	7	M12 X 1.25	M30 X 2.0

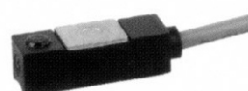
MA Pneumatic Cylinder Dimension

Bore Diameter	M	U	V	W	X	AR	AX	AY	T
20	10	29	8	6	G1/8	7	33	29	19
25	12	34	10	8	G1/8	7	33	29	21
32	12	39.5	12	10	G1/8	8	37	32	21
40	12	49.5	16	14	G1/4	9	47	41	21

MA/MAL Magnetic Switch and Holder

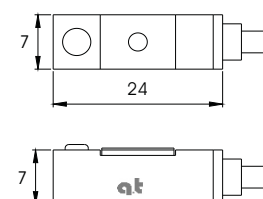


BK Magnetic Switch Holder
20 to 40mm bore diameter cylinder



AT-03 Magnetic Switch

Dimension

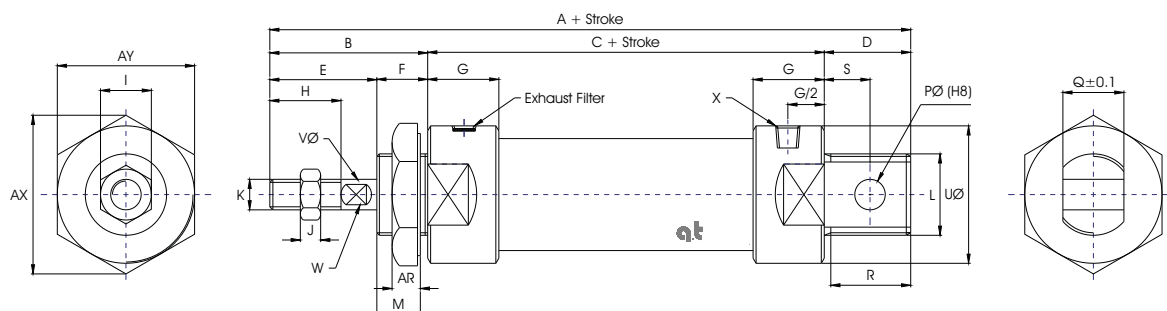


Reed Switch Specification

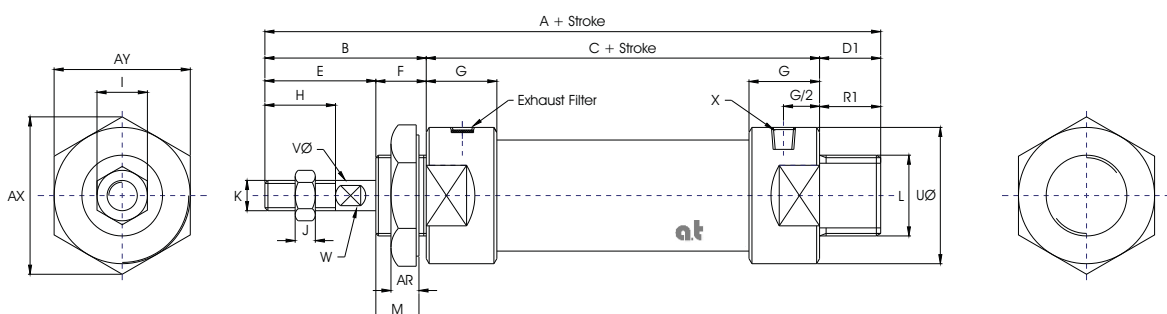
Model	Contact Type	Voltage	Current	Response Time	Indicator	Wire
AT03-RS	Reed Sw itch	5 to 240Vac	5 to 60mA	1msec max.	LED	2M
AT03-NPN	NPN	5 to 110Vdc				
AT03-PNP	PNP	5 to 30 Vdc				

MAS Series Stainless Steel Single Acting Cylinder

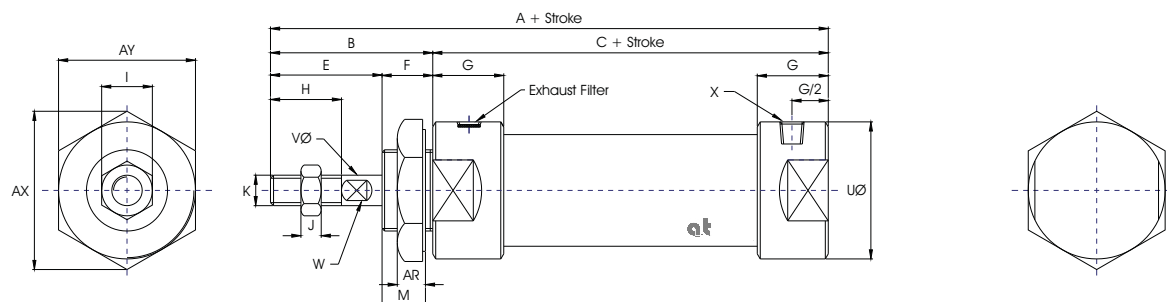
MAS - CA Single Acting Cylinder Normally Retracted



MAS - CM Single Acting Cylinder Normally Retracted



MAS - U Single Acting Cylinder Normally Retracted



MAS Pneumatic Cylinder Dimension

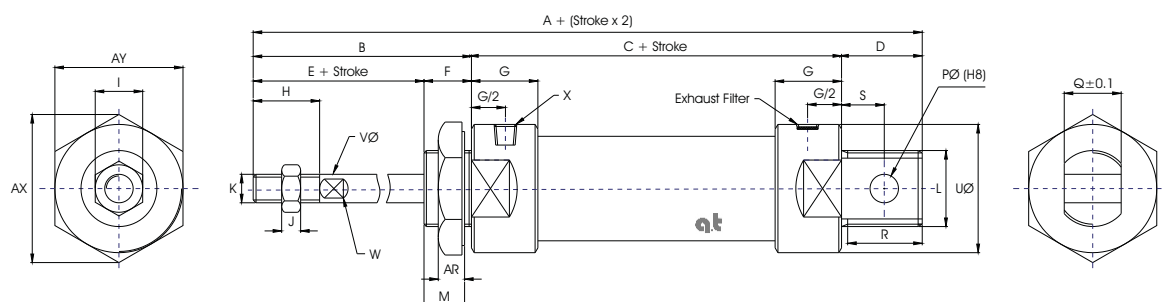
Bore Diameter	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	137	162	128	153	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	136	1611	122	147	46	76	101	27	14	32	14	22	24	17	7

MAS Pneumatic Cylinder Dimension

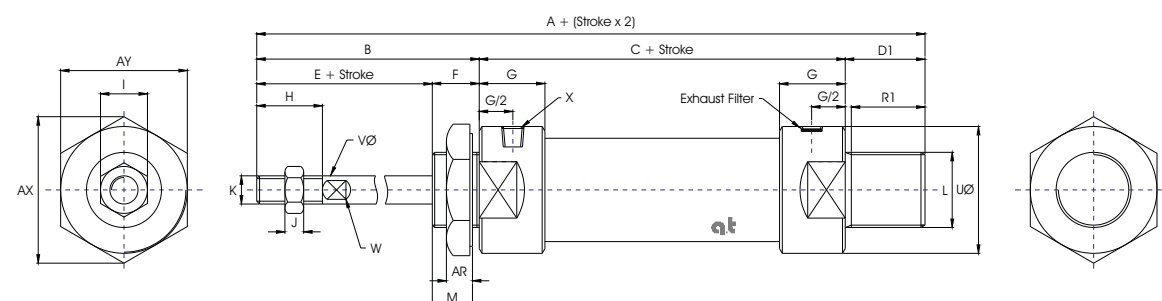
Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

MAS Series Stainless Steel Single Acting Cylinder

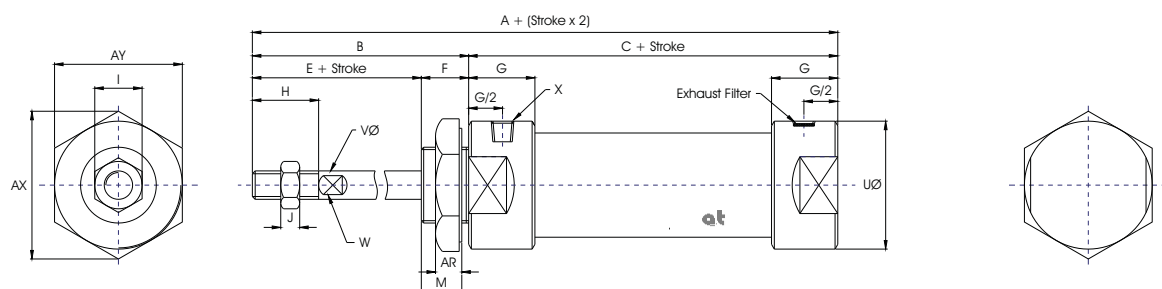
MASE - CA Single Acting Cylinder Normally Extended



MASE - CM Single Acting Cylinder Normally Extended



MASE - U Single Acting Cylinder Normally Extended



MASE Pneumatic Cylinder Dimension

Bore Diameter	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	137	162	128	153	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	136	1611	122	147	46	76	101	27	14	32	14	22	24	17	7

MASE Pneumatic Cylinder Dimension

Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

MAL Series Aluminum Cylinder

Ordering Code

MAL - U - 20 X 50 - S - 25

MAL - Double Acting Cylinder
MALD - Double Acting Thru Rod Cylinder
MALJ - Double Acting with Adjustable Stroke Cylinder
MALS - Single Acting Cylinder Normally Retracted
MALSE - Single Acting Cylinder Normally Extended

U - Flat End Mounting
CM - Round End Mounting
Blank - Standard Mounting

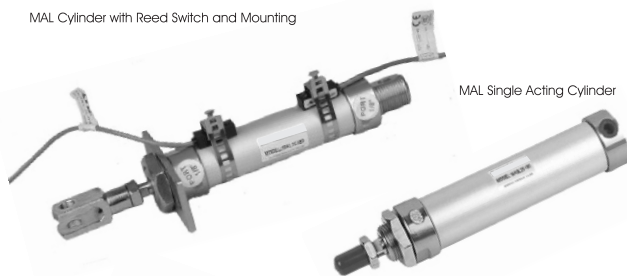
20 - Bore Diameter
50 - Stroke

S - Magnetic Piston
Blank - Non-Magnetic Piston

25 - Stroke Adjustment for MALJ

MAL Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

MAL Cylinder with Reed Switch and Mounting



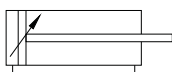
MAL Single Acting Cylinder

MAL Double Acting Cylinder

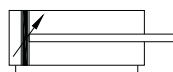


MAL Tandem Cylinder

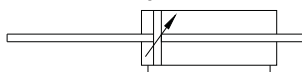
With Cushioning



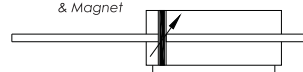
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



Thru Rod w/ Cushioning & Magnet



MAL Pneumatic Cylinder Specification

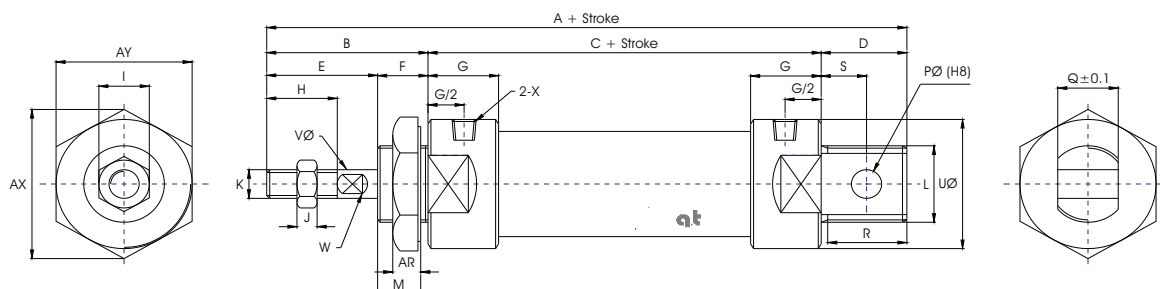
Bore Diameter	16	20	25	32	40
Action	Double Acting / Single Acting				
Working Medium	Air				
Working Pressure	10 kg/cm ²				
Test Pressure	13 Kg/cm ²				
Working Temperature	0 - 70 °C				
Working Speed Range	50~800 mm/sec				
Cushioning	Rubber Bumper				
Port Size	M5	G1/8"			G1/4"

Theoretical Force Table

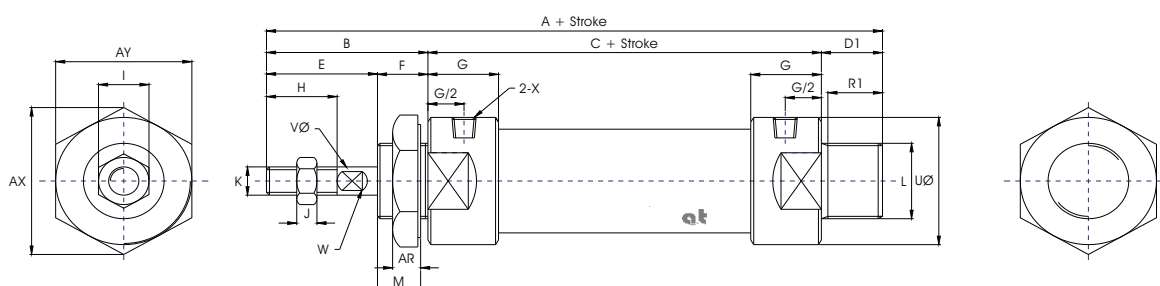
Bore Diameter		16			20			25			32			40		
Piston Rod Diameter		6			8			10			12			16		
Motion Pattern		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting		Single Acting	Double Acting	
			Push Side	Pull Side		Push Side	Pull Side		Push Side	Pull Side		Push Side	Pull Side			
Air Pressure (Kg/cm²)	1	-	2.01	1.81	-	3.14	2.64	-	4.90	4.12	-	8.04	6.90	-	12.56	10.55
	2	-	4.02	3.62	1.57	6.28	5.28	2.45	9.80	8.24	4.02	16.08	13.80	6.28	25.12	21.10
	3	2.01	6.03	5.43	4.71	9.42	7.92	7.35	14.70	12.36	12.06	24.12	20.70	18.84	37.68	31.65
	4	4.02	8.04	7.24	7.85	12.56	10.56	12.25	19.60	16.48	20.10	32.16	27.60	31.40	50.24	42.20
	5	6.03	10.05	9.05	10.99	15.70	13.20	17.15	24.50	20.60	28.14	40.20	34.50	43.96	62.80	52.75
	6	8.01	12.06	10.86	14.13	18.84	15.84	22.05	29.40	24.72	36.18	48.24	41.40	56.52	75.36	63.30
	7	10.04	14.07	12.67	17.27	21.98	18.48	26.95	34.30	28.84	44.22	56.28	48.30	69.08	87.92	73.85
	8	-	-	-	20.41	25.12	21.12	31.85	39.20	32.96	52.26	64.32	55.20	81.64	100.48	84.40
	9	-	-	-	23.55	28.26	23.76	36.75	44.10	37.08	60.30	72.36	62.10	94.20	113.04	94.95

MAL Series Aluminum Double Acting Cylinder

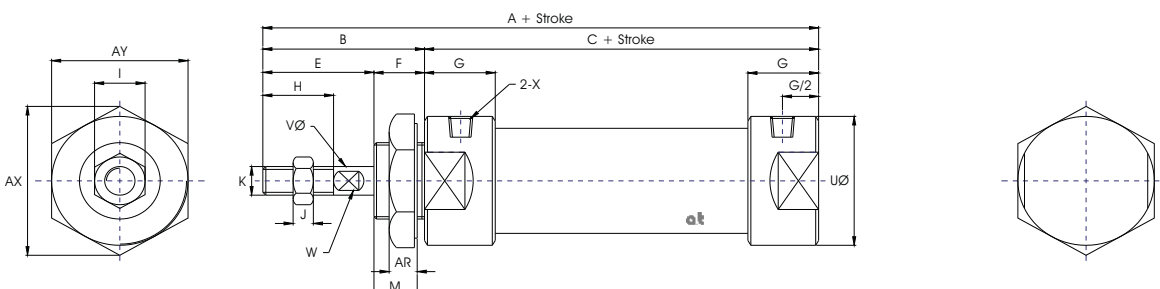
MAL - CA Double Acting Cylinder



MAL - CM Double Acting Cylinder



MAL - U Double Acting Cylinder



MAL Pneumatic Cylinder Dimension

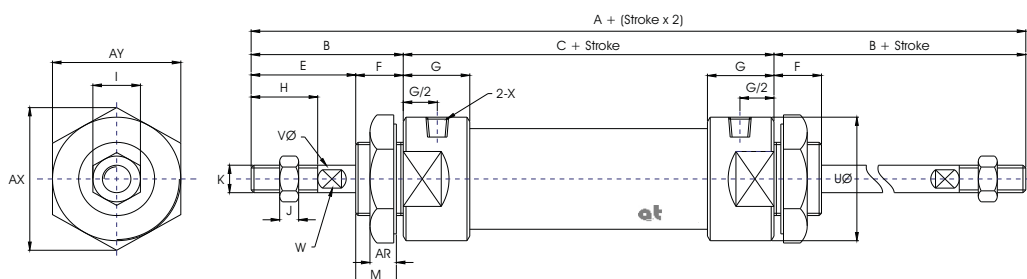
Bore Diameter	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K	L
16	104	104	90	38	52	15	15	24	14	11	16	10	5	M6 X 1	M16 X 1.5
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8 X 1.25	M22 X 1.5
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10 X 1.25	M22 X 1.5
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10 X 1.25	M24 X 2.0
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12 X 1.25	M30 X 2.0

MAL Pneumatic Cylinder Dimension

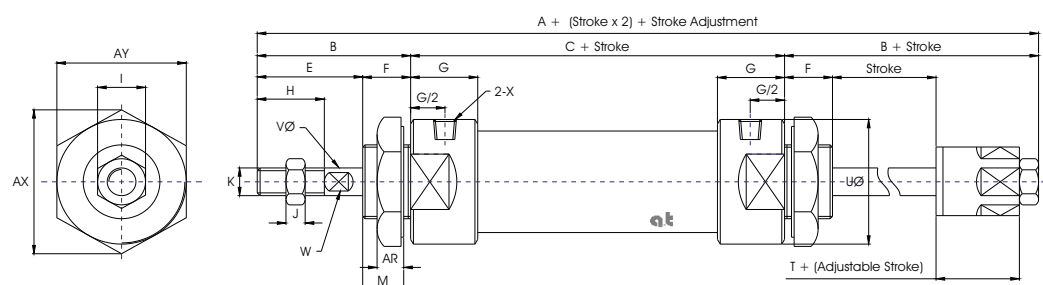
Bore Diameter	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	8	6	12	13	13	6	20	6	/	M5	7	24	27.5
20	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	12	23	20	25	14	15	39.5	16	14	G1/4	9	47	41

MAL Series Aluminum Double Acting Cylinder

MALD Thru Rod Cylinder



MALJ Adjustable Stroke Cylinder



MAL Pneumatic Cylinder Dimension

Bore Diameter	A	A1	B	C	E	F	G	H	I	J	K	L
20	131	122	40	70	28	12	16	20	12	6	M8 X 1.25	M22 X 1.5
25	135	128	44	70	30	14	16	22	17	6	M10 X 1.25	M22 X 1.5
32	141	128	44	70	30	14	16	22	17	6	M10 X 1.25	M24 X 2.0
40	165	152	46	92	32	14	22	24	17	7	M12 X 1.25	M30 X 2.0

MAL Pneumatic Cylinder Dimension

Bore Diameter	M	U	V	W	X	AR	AX	AY	T
20	10	29	8	6	G1/8	7	33	29	19
25	12	34	10	8	G1/8	7	33	29	21
32	12	39.5	12	10	G1/8	8	37	32	21
40	12	49.5	16	14	G1/4	9	47	41	21

MA/MAL Series Reed Switch and Holder

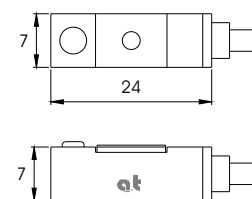


BK Magnetic Switch Holder
20 to 40mm bore diameter cylinder



AT-03 Magnetic Switch

Dimension

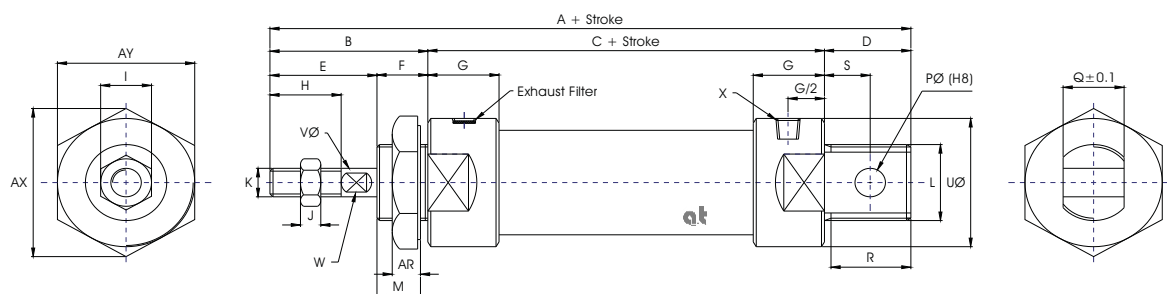


Reed Switch Specification

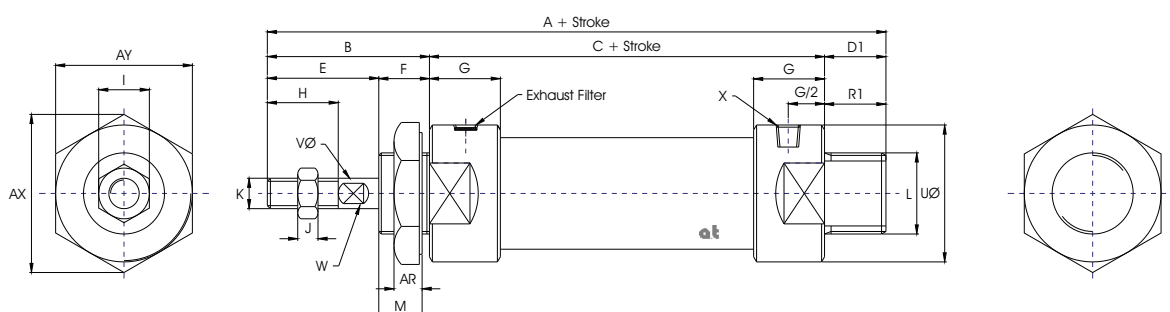
Reed Switch Specification						
Model	Contact Type	Voltage	Current	Response Time	Indicator	Wire
AT03-RS	Reed Sw itch	5 to 240Vac	5 to 60mA	1msec max.	LED	2M
		5 to 110Vdc				
AT03-NPN	NPN	5 to 30 V dc				
AT03-PNP	PNP					

MAL Series Aluminum Single Acting Cylinder

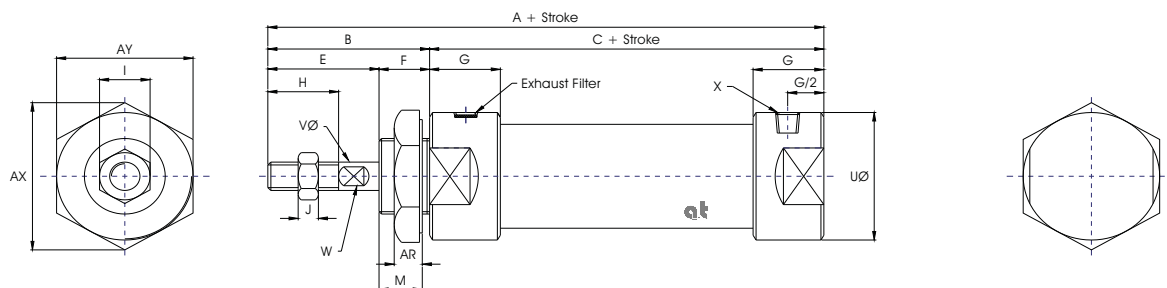
MALS - CA Single Acting Cylinder Normally Retracted



MALS - CM Single Acting Cylinder Normally Retracted



MALS - U Single Acting Cylinder Normally Retracted



MALS Pneumatic Cylinder Dimension

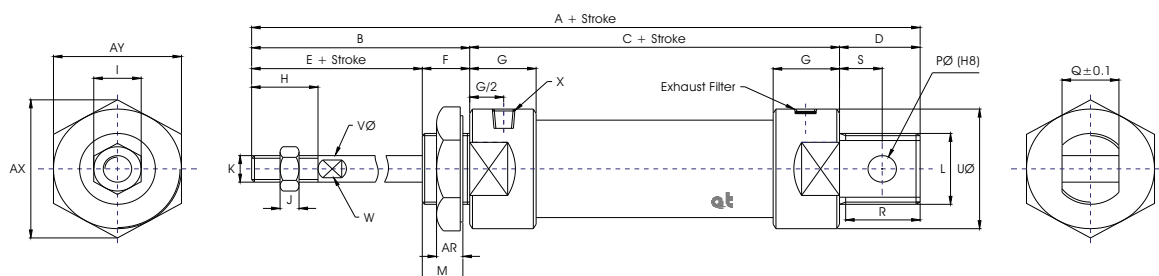
Stroke	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7

MALS Pneumatic cylinderDimension

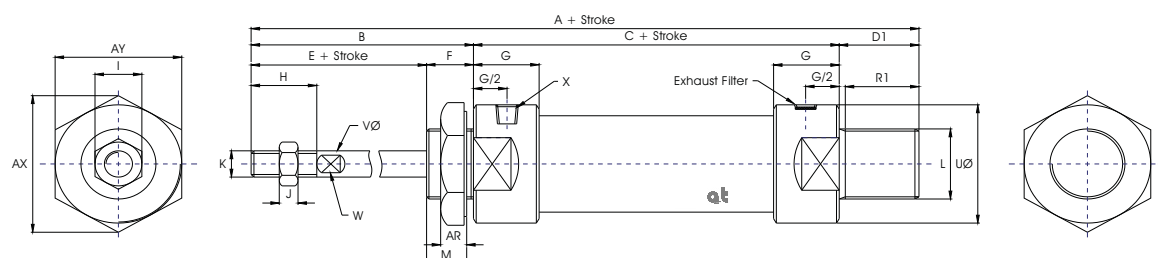
Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	49.5	16	14	G1/4	9	47	41

MAL Series Aluminum Single Acting Cylinder

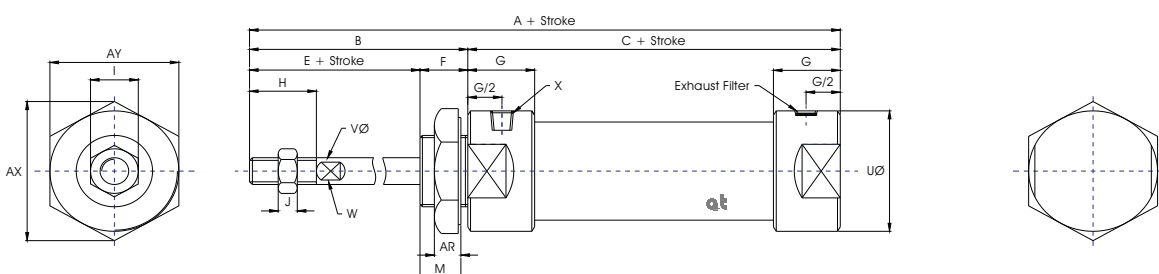
MALSE - CA Single Acting Cylinder Normally Extended



MALSE - CM Single Acting Cylinder Normally Extended



MALSE - U Single Acting Cylinder Normally Extended



MALSE Pneumatic Cylinder Dimension

Stroke	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7

MALSE Pneumatic Cylinder Dimension

Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	49.5	16	14	G1/4	9	47	41

MA / MAL Cylinder Mountings and Piston Rod Adaptors

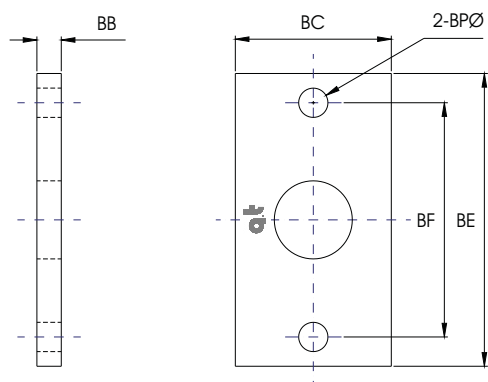


Ordering Code

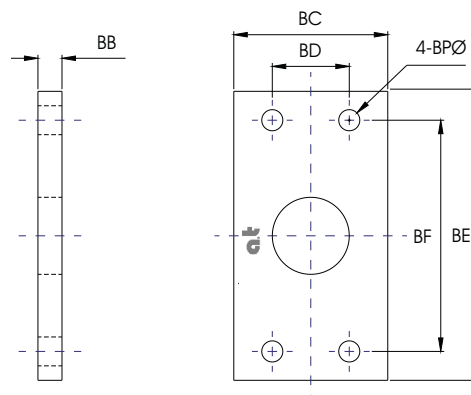
MA	-	LB	-	32
MA	-	Stainless Steel Cylinder		
MAL	-	Aluminum Cylinder		
LB	-	Foot Mounting		
FA	-	Front / Rear Mounting		
SDB	-	Clevis Mounting		
CB	-	Female Clevis Mounting		
Y	-	Y-Knuckle Piston Rod Adaptor		
I	-	I-Knuckle Piston Rod Adaptor		
F	-	Floating Joint Piston Rod Adaptor		
U	-	Universal Joint Piston Rod Adaptor		
32	-	Cylinder Bore Diameter		

MA/MAL Pneumatic Cylinder mountings and Piston rod adaptors are made of Low Carbon Steel materials.

MA / MAL - FA - 20 & 32 Flange Mounting



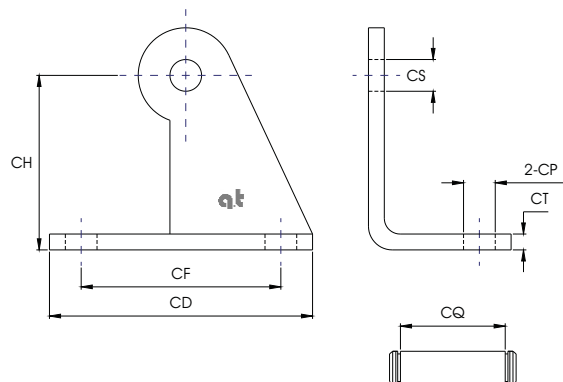
MA / MAL - FA - 32 & 40 Flange Mounting



MA / MAL - FA Dimension

Bore	BB	BC	BD	BE	BF	BP
20	4	38	-	64	50	6.5
25	4	38	-	64	50	6.5
32	4	47	33	72	58	6.5

MA / MAL - SDB Clevis Mounting

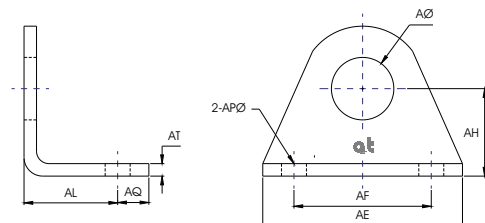


MA / MAL - SDB Dimension

Bore	D	CD	CE	CF	CH	CT	CP	CQ	CS
20	21	48	67	32	32	3	6.5	22	8
25	21	48	67	32	32	3	6.5	22	8
32	27	52	67	36	36	4	6.5	24	10

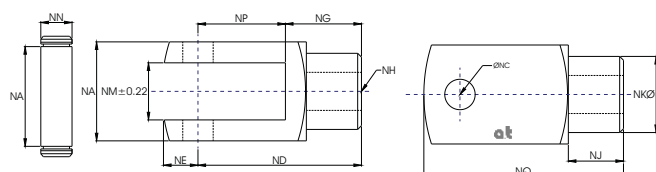
MA / MAL Cylinder Mountings and Piston Rod Adaptors

MA / MAL - LB Foot Mounting

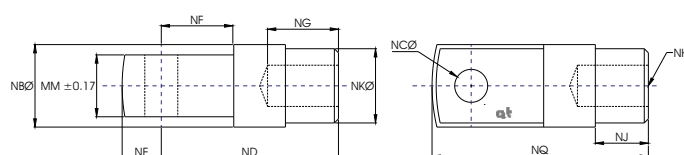


MA / MAL - LB Dimension								
Bore	AE	AF	AL	AQ	AP	AT	AH	A
20	54	40	15	8	6.5	3.2	325	22
25	54	40	15	8	6.5	3.2	25	22
32	59	45	25	8	6.5	4	32	24
40	64	50	25	8	6.5	4.5	36	30

Y-knuckle Piston Rod Adaptor



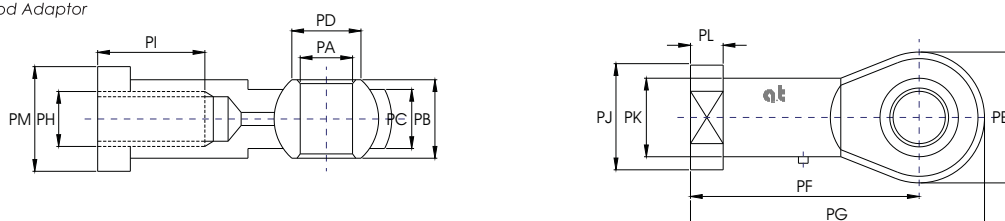
I-knuckle Piston Rod Adaptor



Y/I Knuckle Piston Rod Adaptor Dimension

Bore	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ
20	16	16	8	30	14	11	15	M8 X 1.25	10	16	21	8	8	15	40
25	19	20	10	40	18	13	20	M10 X 1.25	12	20	25	10	10	20	52
32	19	20	10	40	18	13	20	M10 X 1.25	12	20	25	10	10	20	52
40	25.4	25	10	4.5	23	15	25	M12 X 1.25	15	25	31	14	4	20	57

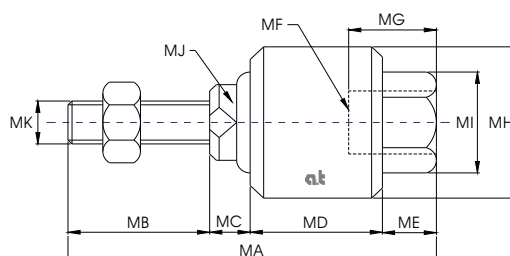
F Floating Joint Piston Rod Adaptor



Floating Joint Piston Rod Adaptor Dimension

Bore	PA	PB	PC	PD	PE	PF	PH	PI	PJ	PK	PL	PM
20	8	12	9	10.4	22	36	M8 X 1.25	17	16	12.5	5	14
25	10	14	11	12.9	26	43	M10 X 1.25	21	19	15	6.5	17
32	10	14	11	12.9	26	43	M10 X 1.25	21	19	15	6.5	17
40	12	16	12	15.4	30	50	M12 X 1.25	24	22	17.5	6.5	19

U Universal Joint Piston Rod Adaptor



Universal Joint Piston Rod Adaptor Dimension

Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20	51	20	6	17	8	M8 X 1.25	12	24	13	8	M8 X 1.25
25	58	22	7	21	8	M10 X 1.25	12	26	17	10	M10 X 1.25
32	58	22	7	21	8	M10 X 1.25	12	26	17	10	M10 X 1.25
40	58	22	8	21	7	M12 X 1.25	12	28	19	2	M12 X 1.25

Compact Cylinder

SDA Compact Cylinder with Reed Switch



SDA Compact Cylinder



SDA Compact Cylinder



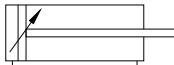
Ordering Code

SDA - 20 X 50 - S - 25

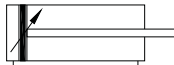
- SDA** - Double Acting Cylinder
- SSA** - Single Acting Cylinder Normally Retracted
- STA** - Single Acting Cylinder Normally Extended
- SDAD** - Double Acting Thru Rod Cylinder
- 20** - Bore Diameter
- 50** - Stroke
- S** - Magnetic Piston **Blank** - Non-Magnetic Piston
- B** - Female Thread **N** - Male Thread
- 25** - Adjustable Stroke Length

SDA/SSA Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

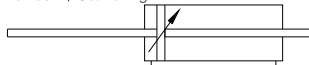
With Cushioning



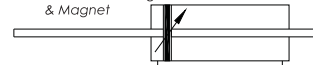
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



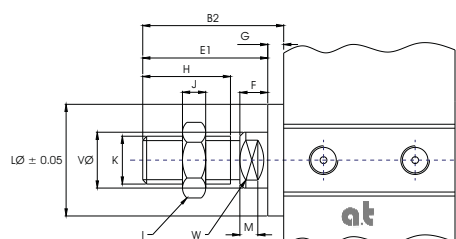
Thru Rod w/ Cushioning & Magnet



SDA Specification

SDA Specification											
Bore Diameter		12	16	20	25	32	40	50	63	80	100
Type of Cylinder		Double Acting									
		Single Acting						-			
Working Medium		Air									
Working Pressure	Double Acting	1~9.0 kg/cm ²									
	Single Acting	2~9 kg/cm ²						-			
Maximum Working Pressure		10.5 kg/cm ²									
Working Temperature		0~70 °C									
Operating Speed mm/s	Double Acting	30~500						30~350		30~250	
	Single Acting	100~500						-			
Port Size		M5 X 0.8				G1/8"		G1/4"		G3/8"	

SDA Male Piston Rod

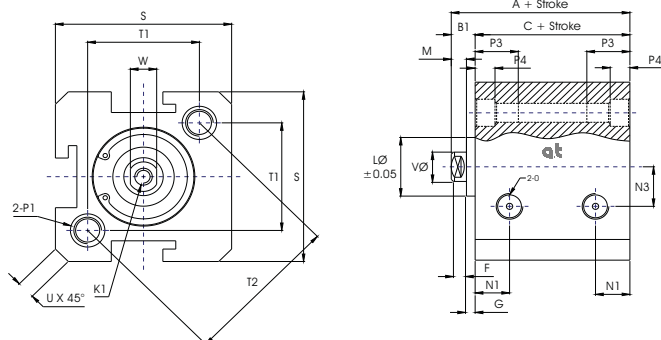


SDA Pneumatic Cylinder Dimension

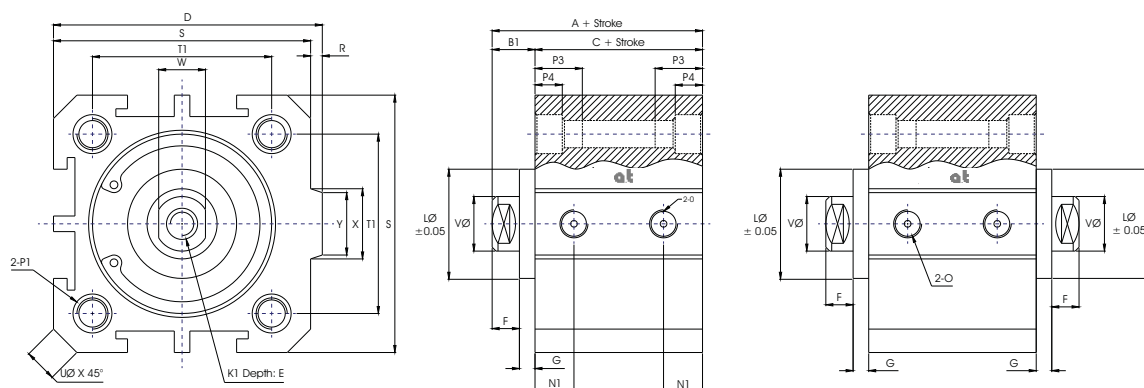
Bore Diameter	B2	E1	F	G	H	I	J	K2	L	M	W	V
12	17	16	4	1	10	8	4	M5 X 0.8	10.2	2.8	5	5
16	17.5	16	4	1.5	10	8	4	M5 X 0.8	11	2.8	5	5
20	20.5	19	4	1.5	13	10	5	M6 X 1.0	16	2.8	6	6
25	23	21	4	2	15	12	6	M10 X 1.25	17	2.8	8	8
32	25	22	4	3	15	17	6	M14 X 1.5	22	2.8	10	10
40	35	32	4	3	25	19	8	M18 X 1.5	28	2.8	14	14
50	37	33	5	4	25	24	11	M18 X 1.5	38	2.8	17	17
63	37	33	5	4	25	24	11	M22 X 1.5	40	2.8	17	17
80	44	39	6	5	30	32	13	M22 X 1.5	45	4	22	22
100	50	45	7	5	35	36	13	M26 X 1.5	55	4	27	27

Compact Double Acting Cylinder

SDA 12 ~ 16 Double Acting cylinder



SDA 20 ~ 100 Double Acting cylinder



SDA Pneumatic Cylinder Dimension

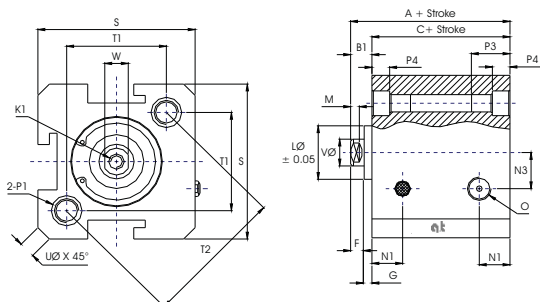
Bore Diameter	Without Magnet			With Magnet			D	E	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C										
12	22	5	17	32	5	27	-	6	4	1	M3 X 0.5	10.2	2.8	6.3	6	M5X0.8
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3 X 0.5	11	2.8	7.3	6.5	M5X0.8
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4 X 0.7	16	2.8	7.5	-	M5X0.8
25	27	6	21	37	6	31	42	10	4	2	M5 X 0.8	17	2.8	8	-	M5X0.8
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6 X 1	22	2.8	9	-	G1/8
40	33	7	26	43	7	36	58.5	12	4	3	M8 X 1.25	28	2.8	10	-	G1/8
50	37	9	28	47	9	38	71.5	15	5	4	M10 X 1.5	38	2.8	10.5	-	G1/4
63	41	9	32	51	9	42	84.5	15	5	4	M10 X 1.5	40	2.8	11.8	-	G1/4
80	52	11	41	62	11	51	104	15	6	5	M14 X 1.5	45	4	14.5	-	G3/8
100	63	12	51	73	12	61	124	18	7	5	M18 X 1.5	55	4	20.5	-	G3/8

SDA Pneumatic Cylinder Dimension

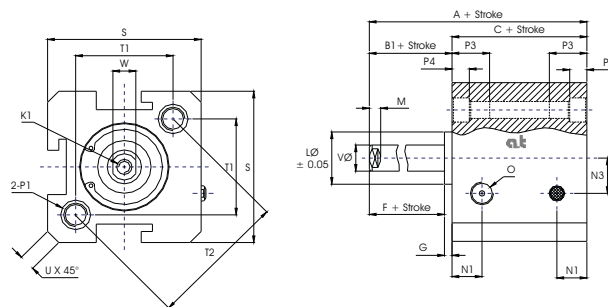
Bore Diameter	P1			P3	P4	R	S	T1	T2	U	V	W	X	Y
	Counter Bore	Thread	Center Hole											
12	6.5 Ø	M5 x 0.8	4.2 Ø	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5 Ø	M5 x 0.8	4.2 Ø	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	6.5 Ø	M5 x 0.8	4.2 Ø	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	8.2 Ø	M6 x 1.0	4.6 Ø	15	5.5	2	40	28	-	3.1	10	8	12	10
32	8.2 Ø	M6 x 1.0	4.6 Ø	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	10 Ø	M8 x 1.25	6.5 Ø	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	10 Ø	M8 x 1.25	6.5 Ø	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	11 Ø	M8 x 1.25	6.5 Ø	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	14 Ø	M12 x 1.75	9.2 Ø	25	10.5	10	94	74	-	3.65	25	22	36	26
100	17.5 Ø	M12 x 1.75	11.3 Ø	30	13	10	114	90	-	3.65	32	27	35	26

Compact Single Acting Cylinder

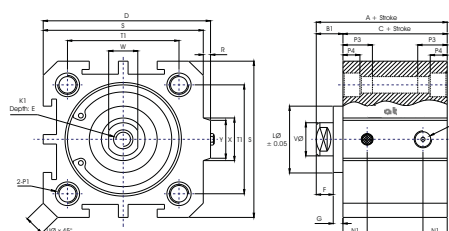
SSA 12~16 Single Acting Cylinder Normally Retracted



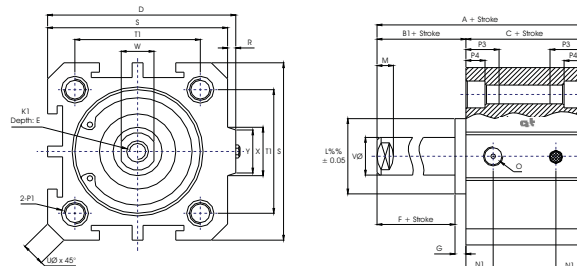
STA 12~16 Single Acting Cylinder Normally Extended



SSA 20~100 Single Acting Cylinder Normally Retracted



STA 20~100 Single Acting Cylinder Normally Extended



SSA / STA Pneumatic Cylinder Dimension

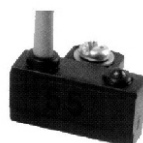
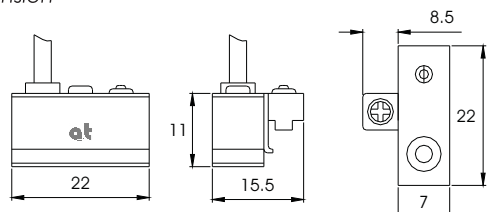
Stroke Bore	Without Magnet					With Magnet					D	E	F	G	K1	L	M	N1	N3
	A		B1	C		A		B1	C										
	=10	>10		=10	>10	=10	>10		=10	>10									
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3 X 0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3 X 0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4 X 0.7	16	2.8	7.5	-
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5 X 0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6 X 1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8 X 1.25	28	2.8	10	-

SSA / STA Pneumatic Cylinder Dimension

Bore	O	P1			P3	P4	R	S	T1	T2	U	V	W	X	Y
		Counter Bore	Thread	Center Hole											
12	M5 X 0.8	6.5 Ø	M5 x 0.8	4.2 Ø	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5 X 0.8	6.5 Ø	M5 x 0.8	4.2 Ø	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5 X 0.8	6.5 Ø	M5 x 0.8	4.2 Ø	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5 X 0.8	8.2 Ø	M6 x 1.0	4.6 Ø	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	8.2 Ø	M6 x 1.0	4.6 Ø	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	10 Ø	M8 x 1.25	6.5 Ø	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

SDA / SSA / STA Series Magnetic Switch

Dimension



AT11 Magnetic Switch

Reed Switch Specification

Model	Contact Type	Voltage	Current	Response Time	Indicator	Wire
AT11-RS	Reed Sw itch	5 to 240Vac 5 to 110Vdc	5 to 60mA	1msec max.	LED	2M
AT11-NPN	NPN	5 to 30 Vdc				
AT11-PNP	PNP					

ISO-15552 Standard Cylinder

DNC Cylinder with Reed Switch



DNC Cylinder



Ordering Code

DNC - D - S - 32 X 50 - 25

DNC - ISO-15552 Standard Cylinder

Blank - Basic Cylinder
D - Thru Rod Cylinder
J - Thru Rod Cylinder with Adjustable Stroke

Blank - Non-magnetic Piston
S - Magnetic Piston

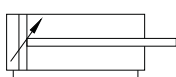
32 - Cylinder Bore Diameter

50 - Stroke Length

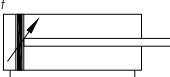
25 - Adjustable Stroke Length

DNC Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

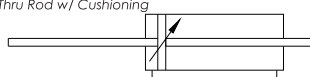
With Cushioning



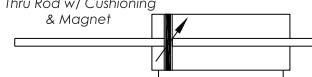
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



Thru Rod w/ Cushioning & Magnet



ISO-15552 Pneumatic Cylinder Specification

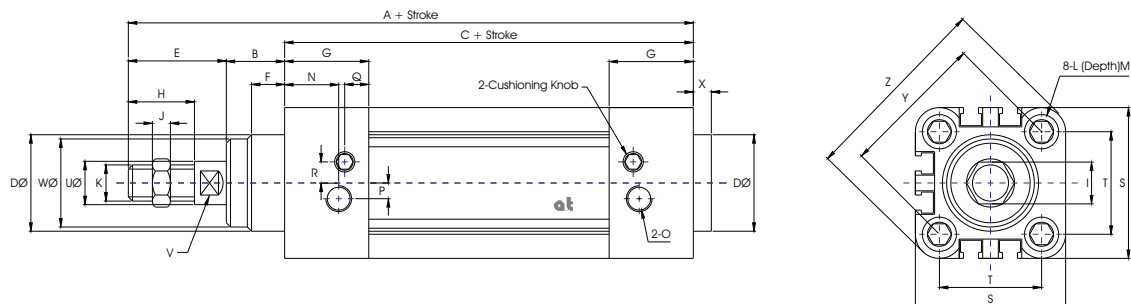
Bore Diameter	32	40	50	63	80	100	125
Action	Double Acting						
Working Medium	Air						
Working Pressure	10 kg/cm ²						
Test Pressure	13 Kg/cm ²						
Working Temperature	0 - 70 °C						
Working Speed Range	50~800 mm/sec						
Cushioning	Adjustable						
Cushioning Adjustment (mm)	20					26	
Port Size	G1/8"	G1/4"		G3/8"		G1/2"	

Theoretical Force Table

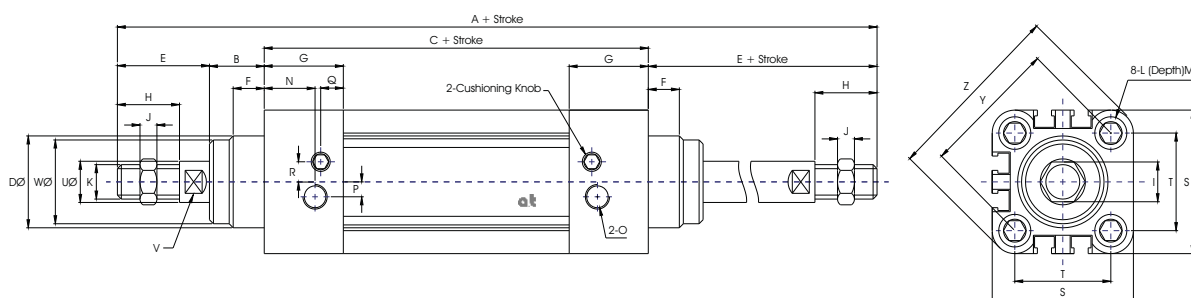
Theoretical Force Table															
Bore Diameter		32		40		50		63		80		100		125	
Piston Rod Diameter		12		16		20		20		25		25		32	
Motion Pattern		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting	
		Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side	Push Side	Pull Side
Air Pressure Kg/cm ²	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20
	8	64.32	55.20	100.48	84.40	157.41	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1,104.30	1,031.40

ISO-15552 Profile Double Acting Cylinder

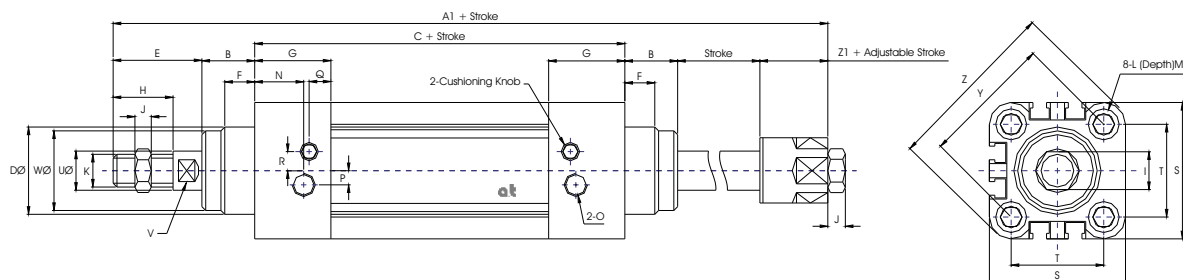
DNC 32~125 Double Acting Cylinder



DNC 32~125 Thru Rod Cylinder



DNC 32~125 Adjustable Thru Rod Cylinder



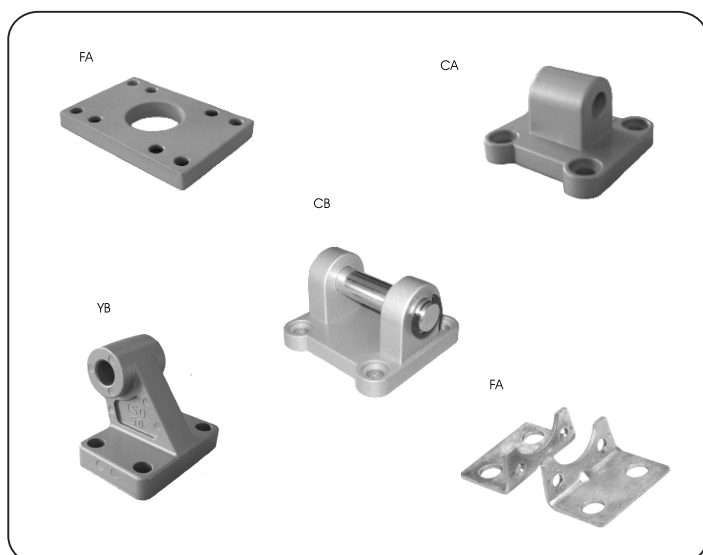
ISO-15552 Profile Cylinder Dimension

Bore Diameter	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	16	94	30	32	10	25	22	17	6	M10 X 1.25	M6
40	159	213	207	20	105	35	34	10	29.5	24	17	7	M12 X 1.25	M6
50	175	244	233	27	106	40	42	10	32	32	23	8	M16 X 1.5	M8
63	190	258	247	26	122	45	42	10	36	32	23	8	M16 X 1.5	M8
80	214	301	288	35	127	45	52	10	37	40	26	10	M20 X 1.5	M10
100	229	321	308	40	137	55	52	10	39	40	26	10	M20 X 1.5	M10
125	277	394	-	46	160	60	71	13	44	54	40	10	M27X2	M12

ISO-15552 Profile Cylinder Dimension

Bore Diameter	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	21	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	23	G3/8	8	5	9	76	56.5	20	17	40	4	79.9	99.6	23
80	15	24	G3/8	10	5	12	94	72	25	22	43	5	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	6	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	7	156.9	179.6	-

ISO-15552 Mounting & Piston Rod Accessories

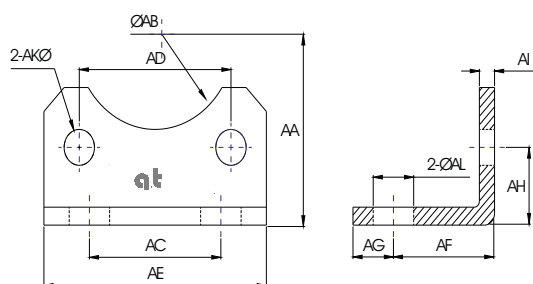


Ordering Code

DNC	-	LB - 32
DNC	-	ISO 15552 Profile Cylinder
LB	-	Foot Mounting
FA	-	Front / Rear Mounting
CA	-	Male Clevis Mounting
CB	-	Female Clevis Mounting
YB	-	Y-Male Clevis Mounting
32	-	Cylinder Bore Diameter

DNC Pneumatic Cylinder mountings and Piston rod adaptors are made of Low Carbon Steel materials.

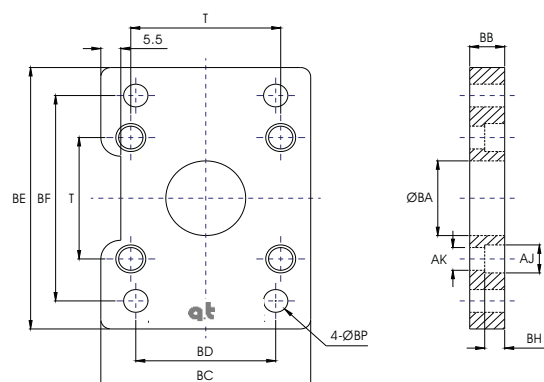
DNC-LB Foot Mounting



ADNC - LB Dimension

Bore Diameter	32	40	50	63	80	100	125
AA	32	36	45	50	63	71	90
AB (min)	30	35	40	45	45	55	60
AC	32	38	46	56	72	89	90
AD	32.5	38	46.5	56.5	72	89	110
AE	45	52	65	76	94	112	140
AF	24	28	32	31.5	41.5	41.5	45
AG	9	11	11	11	14	16	18
AH	15.8	17	21.8	21.8	27	26.5	35
AI	3.2	3.2	3.2	3.2	4	4	8
AJ	142	161	170	185	210	220	250
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5
AL	7	9	9	9	12	14	16

DNC-FA Flange Mounting

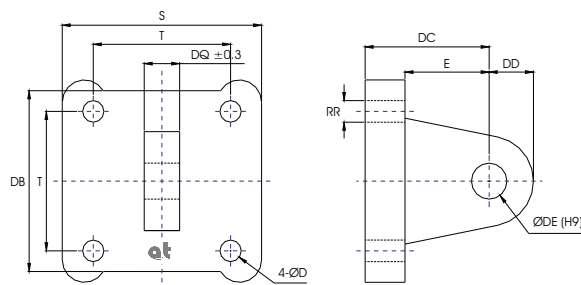


ADNC - FA Dimension

Bore Diameter	32	40	50	63	80	100	125
BA	30.3	35.3	40.3	45.3	45.3	55.3	60.3
BB	10	10	12	12	16	16	20
BC	45	52	65	76	94	112	140
BD	32	36	45	50	63	75	90
BE	80	90	110	120	150	175	224
BF	64	72	90	100	126	150	180
BH	6.5	6.5	8.5	8.5	10.5	10.5	15
AJ	10.5	10.5	13.5	13.5	16.5	16.5	19
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5
BP	7	9	9	9	12	14	16
T	32.5	38	46.5	56.5	72	89	110

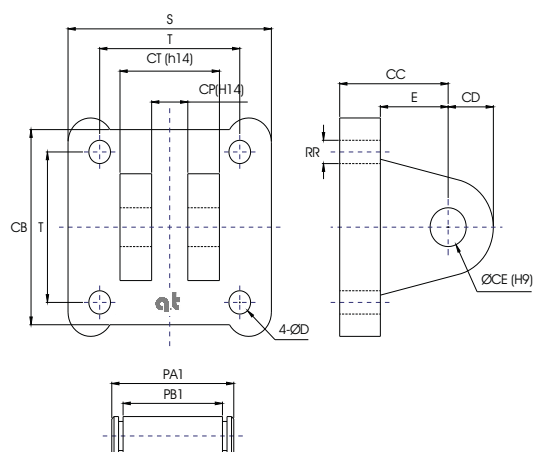
ISO-15552 Mounting & Piston Rod Accessories

DNC - CA Male Clevis Mounting



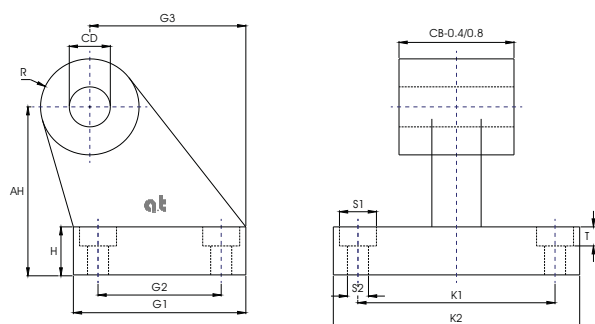
ADNC - CA Dimension							
Bore Diameter	32	40	50	63	80	100	125
S	45	52	65	76	94	112	140
T	32.5	38	46.2	56.5	72	89	110
RR	6.5	6.5	9	9.5	11	11.5	12
DB	34	41	54	65	83	101	123
DC	22	25	27	32	36	41	50
DD	10	11	13	16	16	20	25
DE	10	12	12	16	16	20	25
DQ	26	28	32	40	50	60	70
D	6.5	6.5	8.5	8.5	10.5	10.5	12.5
E	14	17	17	22	24	25	30

DNC - CB Female Clevis Mounting



ADNC - CB Dimension							
Bore Diameter	32	40	50	63	80	100	125
S	45	52	65	76	94	112	140
T	32.5	38	46.5	56.5	72	89	110
D	6.5	6.5	8.5	8.5	10.5	10.5	12.5
E	14	17	17	22	24	25	30
RR	6.5	6.5	9	9.5	11	11.5	12
CB	34	41	54	65	83	101	123
CC	22	25	27	32	36	41	50
CD	10	11	13	16	46	20	25
CE	10	12	12	16	46	20	25
CP	26	28	32	40	50	60	70
CT	45	52	60	70	90	110	120
PA1	53	60	68	78	100	120	130
PB1	46.5	53.5	61.5	71.5	91.5	111.5	121.5

DNC - YB Y-Male Clevis Mounting



ADNC - YB Dimension							
Bore Diameter	32	40	50	63	80	100	125
AH	32	36	45	50	63	71	90
H	8	10	12	12	14	15	20
CD	10	12	12	16	16	20	25
G1	31	35	45	50	60	70	90
G2	18	22	30	35	40	50	60
G3	21	24	33	37	47	55	70
CB	26	28	32	40	50	60	70
K1	38	41	50	52	66	76	94
K2	51	54	65	67	86	96	124
S1	11	11	14	14	17	17	20
S2	6.6	6.6	9	9	11	11	14
T	1.6	1.6	1.6	1.6	2.5	2.5	3.2
R	10	11	13	15	15	19	22.5

ISO-6432 DSN Standard Stainless Steel Cylinder

DSN Stainless Steel Cylinder with Reed Switch



DSN Cylinder



Ordering Code

DSN - **20** X **50** - **S**

DSN - Double Acting Cylinder
DSND - Double Acting Thru Rod Cylinder

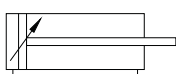
U - Flat End Mounting
Blank - Standard Mounting

20 - Bore Diameter
50 - Stroke

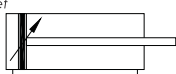
S - Magnetic Piston
Blank - Non-Magnetic Piston

DSN Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton and Teflon.

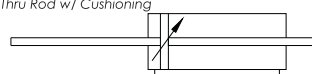
With Cushioning



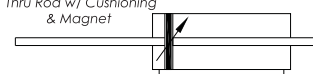
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



Thru Rod w/ Cushioning & Magnet



Bore	Standard Stroke																Max. Stroke
12	25	50	75	80	100	125	150	160	175	200	-	-					300
16	25	50	75	80	100	125	150	160	175	200	-	-					300
20	25	50	75	80	100	125	150	160	175	200	250	300					500
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500

Bore	12	16	20	25	32	40
Motion Pattern	Double Acting / Single Acting					
Working Medium	Air					
Working Pressure Kg/cm ²	1~9.0					
Maximum Pressure Kg/cm ²	13.5					
Working Pressrue °C	0~70					
Speed mm/s	50~800					
Cushioning	Without		With Cushion Adjustment			
Port Size	M5 x 0.8		G1/8"			

DSN Series Reed Switch and Holder

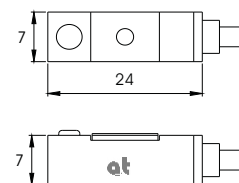


BK Magnetic Switch Holder
16 to 40mm bore diameter cylinder



AT-03 Magnetic Switch

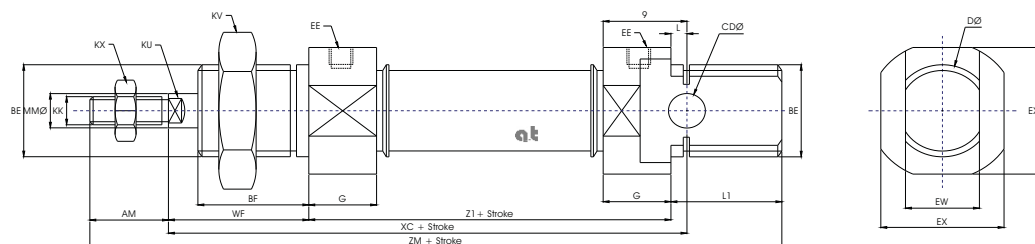
Dimension



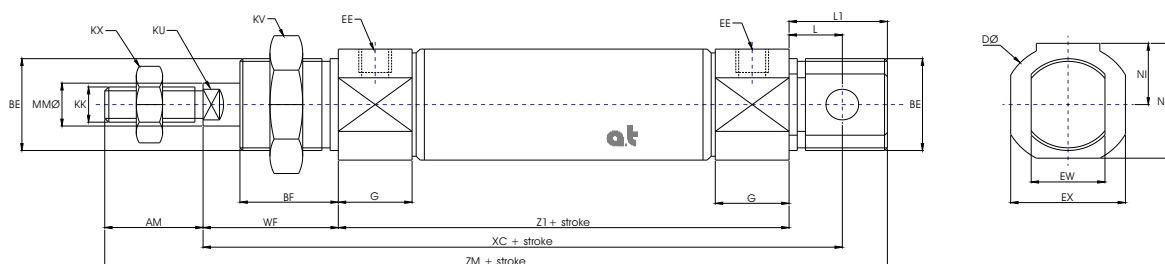
Reed Switch Specification						
Model	Contact Type	Voltage	Current	Response Time	Indicator	Wire
AT03-RS	Reed Sw itch	5 to 240V ac	5 to 60mA	1msec max.	LED	2M
AT03-NPN	NPN	5 to 110V dc				
AT03-PNP	PNP	5 to 30 V dc				

ISO-6432 Double Acting cylinder

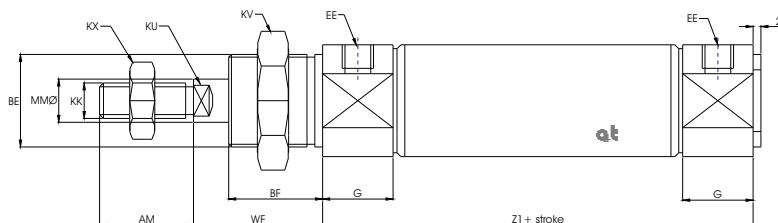
DSN 12~16 Double Acting Cylinder



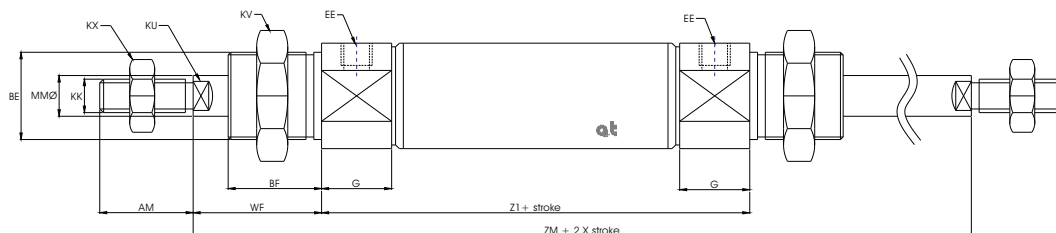
DSN 20~40 Double Acting Cylinder



DSNU 20~40 Double Acting Cylinder



DSND 20~40 Double Acting Cylinder



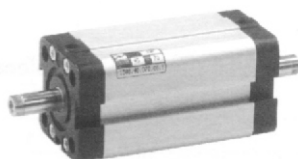
DSN Dimension

Bore Diameter	AM	BE	BF	CD	D	EE	EX	EW	G	KK	KU	KV	KX	L	L1	MM	NI	NJ	WF	XC	Z1	ZB	ZM
12	16	M16 X 1.5	16	6	21	M5	19	12	10	M6 X 1.0	5	24	12	4	16	6	-	-	22	77	51	105	95
16	16	M16 X 1.5	16	6	21	M5	19	12	10	M6 X 1.0	5	24	12	9	16	6	-	-	22	82	51	105	102
20	20	M22 X 1.5	18	8	30	G1/8	27	16	15	M8 X 1.25	7	27	14	12	22	8	15	28.5	24	95	59	125	107
25	22	M22 X 1.5	20	8	30	G1/8	27	16	16	M10 X 1.25	9	27	17	12	22	10	15	28.5	28	104	64	136	120
32	23	M27 X 2.0	20	10	38	G1/8	35	20	16	M10 X 1.25	10	35	17	15	27	12	19	36.5	28	115	72	150	128
40	23	M33 X 2.0	20	10	40	G1/8	42	20	16	M14 X 1.5	14	41	22	15	27	16	22.5	43.5	28	115	72	150	128

JDA Series Compact Cylinder ISO 21287



ISO Compact Cylinder



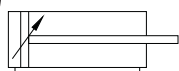
Ordering Code

JDA - 20 X 50 - S - B

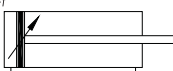
JDA	-	Double Acting Cylinder
JDAS	-	Single Acting cylinder
JDAD	-	Double Acting Thru Rod Cylinder
20	-	Bore Diameter
50	-	Stroke
S	-	Magnetic Piston
Blank	-	Non-Magnetic Piston
Blank	-	Female Thread
B	-	Male Thread

JDA Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of Viton or Teflon.

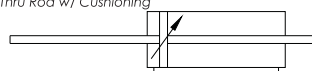
With Cushioning



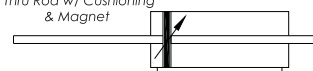
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



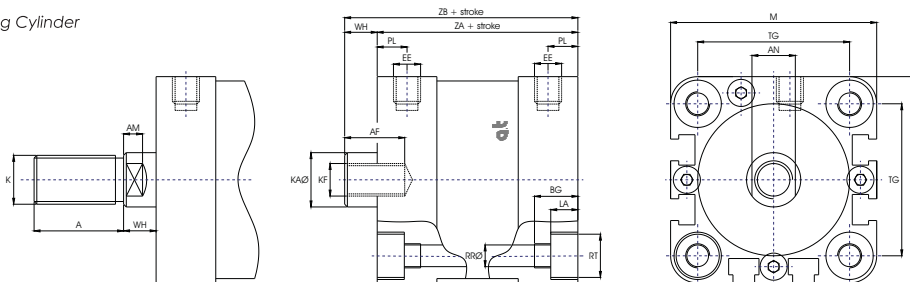
Thru Rod w/ Cushioning & Magnet



JDA ISO 21287 Cylinder Specification

Bore		20	25	32	40	50	63	80	100
Motion Pattern		Double Acting							
		Single Acting Normally Extended / Normally Retracted				Double Acting			
Working Medium		Air							
Working Pressure Kgf/cm²	Double Acting	1~9.0							
	Single Acting	2~9				-			
Maximum Working Pressure Kgf/cm²		10.5							
Working Temperature °C		0~70							
Operating Speed mm/s	Double Action	30~500				30~350		30~250	
	Single Action	100~500				-			
Port size		M5 X 0.8				G1/8"			

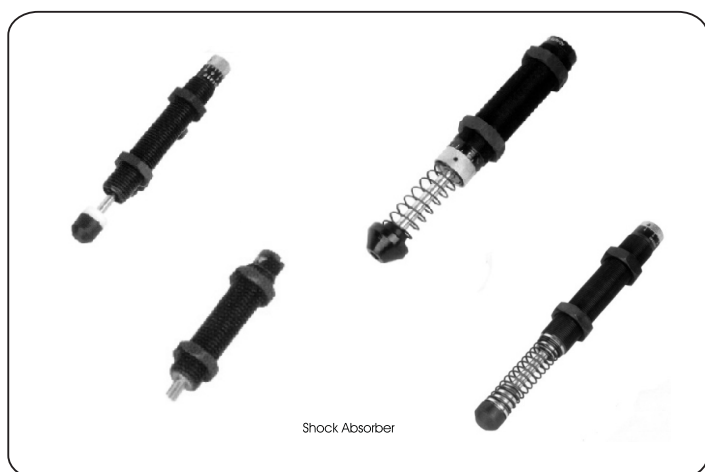
JDA - 20~100 Double Acting Cylinder



JDA Cylinder Dimension

Bore	AF	AM	AN	A	WH	ZA	ZB	KF	KK	KA	EE	BG	RR	TG	E	RT	LA	PL
20	10	4	6	16	6	37	43	M6	M8 X 1.25	8	M5	15	4.1	22	38	M5	5	5
25	10	4	8	16	6	39	45	M6	M8 X 1.25	10	M5	15	4.1	26	41	M5	5	5
32	12	4	10	19	7	44	51	M8	M10 X 1.25	12	G1/8	16	5.1	32.5	50	M6	5	7.5
40	12	4	14	19	7	45	52	M8	M10 X 1.25	16	G1/8	16	5.1	38	58	M6	5	7.5
50	16	5	17	22	8	45	53	M10	M12 X 1.25	20	G1/8	16	6.4	46.5	70	M8	5	7.5
63	16	5	17	22	8	49	57	M10	M12 X 1.25	20	G1/8	16	6.4	56.5	89	M8	5	7.5
80	20	6	22	28	10	54	64	M12	M16 X 1.5	25	G1/8	17	8.4	72	96	M10	5	7.5
100	20	6	27	28	10	67	77	M12	M16 X 1.5	25	G1/8	17	8.4	89	116	M10	5	7.5

Shock Absorber



Ordering Code

HAC - 25 X 50 - 1 - N

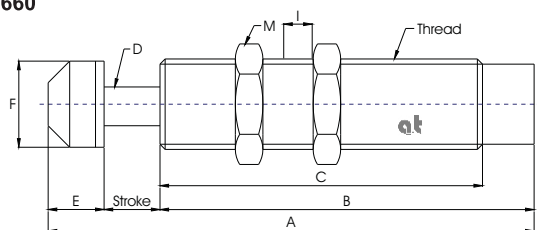
HAC - Non Adjustable Shock Absorber
HACD - Thru Rod Non Adjustable Shock Absorber

25 - Size
50 - Stroke

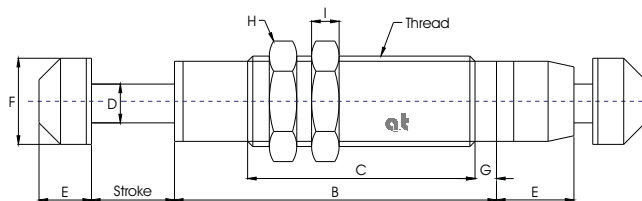
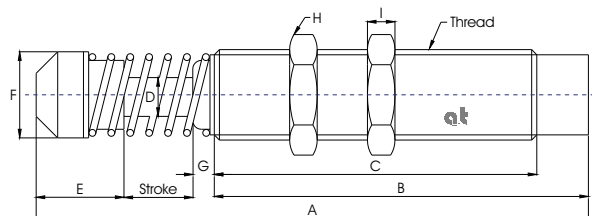
1 - High Impact Absorber
2 - Medium Impact Absorber
3 - Low Impact Absorber

Blank - With Cap
N - Without Cap

HAC-2540
HAC-3660



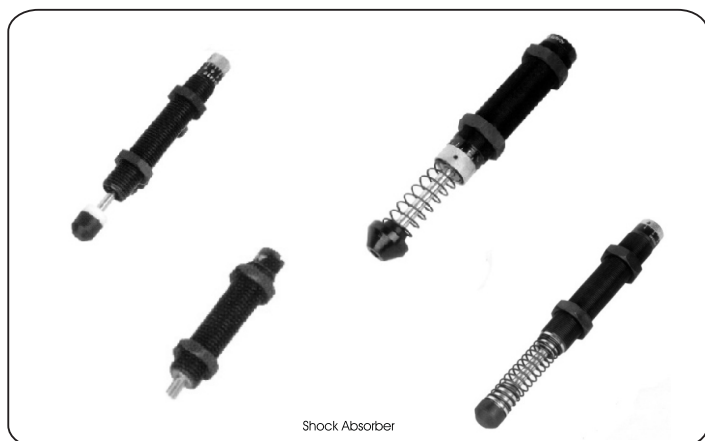
HACD-2030
HACD-2035



HAC / HACD Dimension

Part Number	Thread	A	B	C	D	E	F	G	H	I
HAC-0806	M8 X 1.0	50	38	33	2.8	6	6.6	-	11	3
HAC-1005	M10 X 1.0	38.7	28	22.9	3	6	8.6	-	12.7	3
HAC-1008	M10 X 1.0	57	43	38	3	6	8.6	-	12.7	3
HAC-1210	M12 X 1.0	69.5	50	45.5	3	9.5	10.3	-	14	4
HAC-1412	M14 X 1.5	102.3	76	67	4	14.3	12	-	19	6
HAC-1416	M14 X 1.5	125.3	95	86	4	14.3	12	-	19	6
HAC-1420	M14 X 1.5	129.3	95	86	4	14.3	12	-	19	6
HAC-2020	M20 X 1.5	148	110	101	6	18	18	-	26	8
HAC-2030	M20 X 1.5	158	110	101	6	18	18	-	26	8
HAC-2050	M20 X 1.5	235	167	158	6	18	18	-	26	8
HAC-2525	M25 X 1.5	155.5	111	101	8	19.5	22	-	32	10
HAC-2540	M25 X 1.5	213	137	117	8	36	22	10	32	10
HAC-2550	M25 X 1.5	240	171	100	8	19.5	22	-	32	10
HAC-2580	M25 X 1.5	337	237	100	8	19.5	22	-	32	10
HAC-3660	M36 X 1.5	248	162	34	10	26	35	17	46	15
HACD-2030	M20 X 1.5	189	123	44	6	18	18	5	26	8

Shock Absorber

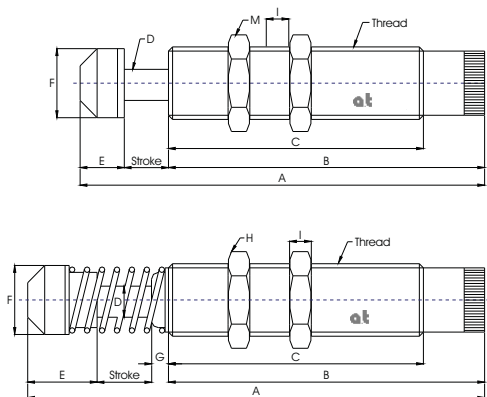


Ordering Code

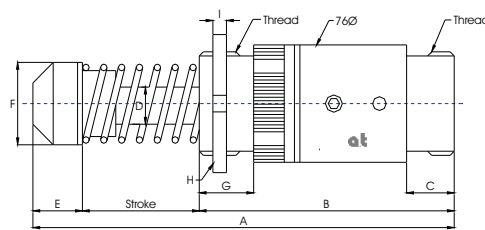
HAD - 25 X 50 - 1 - N

HAD	-	Adjustable Shock Absorber
HACD	-	Thru Rod Non Adjustable Shock Absorber
25	-	Size
50	-	Stroke
1	-	High Impact Absorber
2	-	Medium Impact Absorber
3	-	Low Impact Absorber
Blank	-	With Cap
N	-	Without Cap

HAD-2540
HAD-3625
HAD-3650



HAD-64050
HAD-64100
HAD-64150



HAD Shock Absorber Dimension

Part Number	Thread	A	B	C	D	E	F	G	H	I
HAD-1410-N	M14 X 1.5	-	88.5	72.5	4	-	-	-	19	6
HAD-1410	M14 X 1.5	112.8	88.5	72.5	4	14.3	12	-	19	6
HAD-1415-N	M14 X 1.5	-	88.5	72.5	4	-	-	-	19	6
HAD-1415-N	M14 X 1.5	117.8	88.5	72.5	4	14.3	12	-	19	6
HAD-2016-N	M20 X 1.5	-	117	101	6	-	-	-	26	8
HAD-2016-N	M20 X 1.5	151	117	101	6	18	18	-	26	8
HAD-2025-N	M20 X 1.5	-	117	101	6	-	-	-	26	8
HAD-2025	M20 X 1.5	160	117	101	6	18	18	-	26	8
HAD-2525-N	M25 X 1.5	-	118.5	101	8	-	-	-	32	10
HAD-2525	M25 X 1.5	163	118.5	101	8	19.5	22	-	32	10
HAD-2530-N	M25 X 1.5	-	118.5	101	8	-	-	-	32	10
HAD-2530	M25 X 1.5	168	118.5	101	8	19.5	22	-	32	10
HAD2540	M25 X 1.5	220	144.5	117	8	36	22	10	32	10
HAD-2550	M25 X 1.5	247.5	178	100	8	19.5	22	-	32	10
HAD-2580	M25 X 1.5	344	244.5	100	8	19.5	22	12.5	32	10
HAD3625	M36 X 1.5	184	133	103	10	25.8	35.5	10	46	10
HAD-3650	M36 X 1.5	247	171	134	10	25.8	35.5	7	46	15
HAD-4225	M24 X 1.5	186.4	127.5	88	12	33.9	44.5	28.5	50	15
HAD-4250	M24 X 1.5	240.9	157	117.5	12	33.9	44.5	28.5	50	15
HAD-4275	M24 X 1.5	301.4	187.5	148	12	33.9	44.5	28.5	50	15
HAD-64050	UNF21/2-12	248	157	26	20	51.8	59	23	76.2	9.4
HAD-64100	UNF21/2-12	348	133	26	20	51.8	59	23	76.2	9.4
HAD-64150	UNF21/2-12	468	256	26	20	51.8	59	23	76.2	9.4

Shock Absorber

HAC / HACD Specification

Part Number	Stroke (mm)	Maximum Absorb Energy (Nm)	Maximum Absorb Energy / Hour (Nm)	Maximum Effective Mass Kg			Maximum Impact Speed (m/s)		
				1	2	3	1	2	3
HAC-0806	6	2	7,200	0.5	2	6	2	1	0.5
HAC-1005	5	3	10,800	1	3	7	3	1.5	0.8
HAC-1008	8	4	14,400	2	4	9	3	1.5	0.8
HAC-1210	10	5	18,000	5	10	30	2	1.5	0.8
HAC-1412	12	15	36,000	8	50	100	3	1.5	0.8
HAC-1416	16	20	40,000	10	70	150	3	1.5	0.8
HAC-1420	20	25	48,000	12	80	160	3	1.5	0.8
HAC-2020	20	40	18,000	30	200	700	3.5	2	1
HAC-2030	30	50	54,000	30	200	700	3.5	2	1
HAC-2050	50	60	66,000	60	400	1200	3.5	2	1
HAC-2525	25	80	60,000	200	800	1500	4	2.5	1
HAC-2540	40	120	84,000	300	1200	2000	4	2.5	1
HAC-2550	50	98	98,000	15	40	160	4	2.5	1
HAC-2580	80	150	127,500	20	50	200	4	2.5	1
HAC-3660	60	250	125,000	400	1500	2400	4	2.5	1
HACD-2030	30	45	54,000	40	300	900	3.5	2	1

HAD Specification

Part Number	Stroke (mm)	Maximum Absorb Energy (Nm)	Maximum Absorb Energy / Hour (Nm)	Maximum Effective Mass Kg	Maximum Impact Speed (m/s)
HAD-1410	10	20	24,000	80	3.2
HAD-1415	15	22	26,400	120	3.2
HAD-2016	16	25	32,000	200	3.6
HAD-2025	25	39	39,000	312	3.6
HAD-2525	25	85	51,000	400	3.6
HAD-2530	30	95	57,000	480	3.6
HAD-2540	40	100	84,000	700	3.6
HAD-2550	50	98	98,000	720	4.2
HAD-2580	80	150	127,500	800	4.2
HAD-3625	25	150	90,000	1,400	3.2
HAD-3650	50	300	108,000	1,400	3.2
HAD-4225	25	260	130,000	3,000	3.6
HAD-4250	50	500	155,000	4,000	4.8
HAD-4275	75	750	187,000	6,000	4.8
HAD-64050	50	12,000	1,560,000	12,727	1.6
HAD-64100	100	24,000	1,920,000	18,181	1.6
HAD-64150	150	36,000	2,520,000	23,636	1.6

100 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

4V1 - 10 - M5 - AC220V - DIN

4V1 - 100 series, Directional Solenoid Valve

10 - 5/2 way Single Solenoid

20 - 5/2 way Double Solenoid

30C - 5/3 way Double Solenoid Close center

30E - 5/3 way Double Solenoid Exhaust center

30P - 5/3 way Double Solenoid Open Center

M5 - M5 X 0.8

06 - G 1/8"

DC12V - 12Vdc

AC24V - 24Vac / 60Hz

DC24V - 24Vdc

AC110V - 110Vac / 60Hz

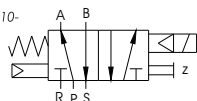
DC110V - 110Vdc

AC220V - 220Vac / 60Hz

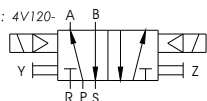
DIN-LED - Socket with LED

DIN - Socket without LED

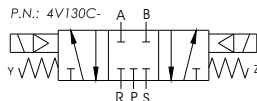
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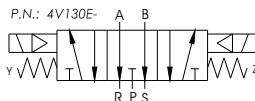
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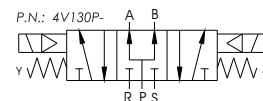
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P.N.: 4V130E-



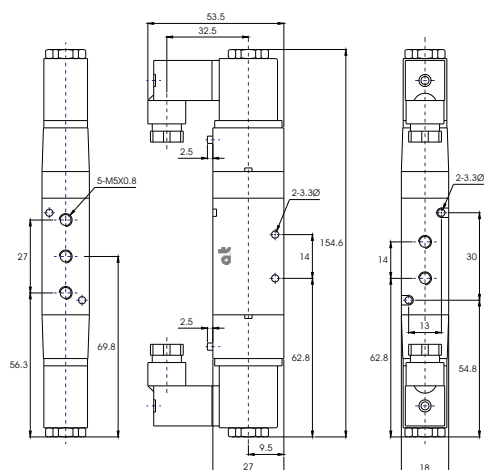
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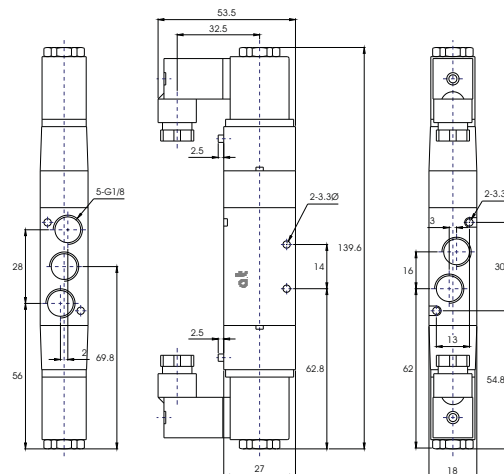
Solenoid Valve Specification

Solenoid Valve Specification										
Part Number	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
Orifice Size	10mm ² (CV=0.56)		7mm ² CV=0.4)			12mm ² (CV=0.67)		9mm ² (CV=0.5)		
Port Connection	Supply, Outlet, Exhaust M5 X 0.8					Supply, Outlet, Exhaust G 1/8"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI									
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									
Power Consumption	AC: 2.5VA DC: 2.5W ±10%									
Protection	F Class. IP65									
Connector	Lead Wire or Socket Type (DIN)									
Switching Cycle	5 Cycle / Sec									

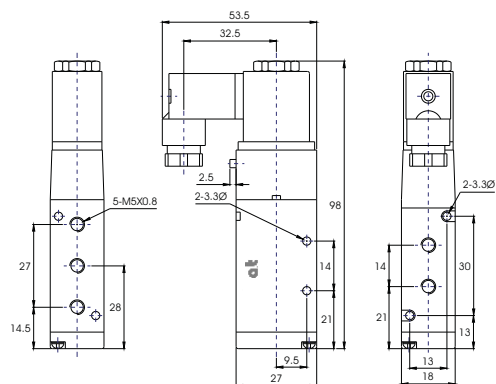
4V130-M5 5/3 way Double Solenoid Valve



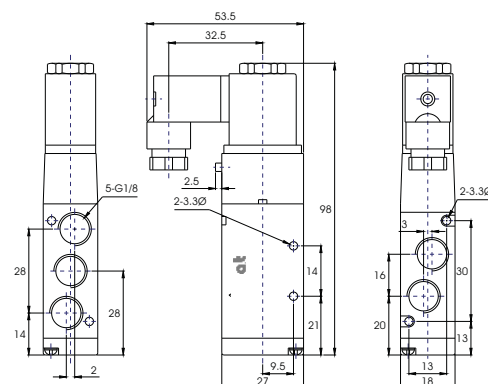
4V130-06 5/3 way Double Solenoid Valve



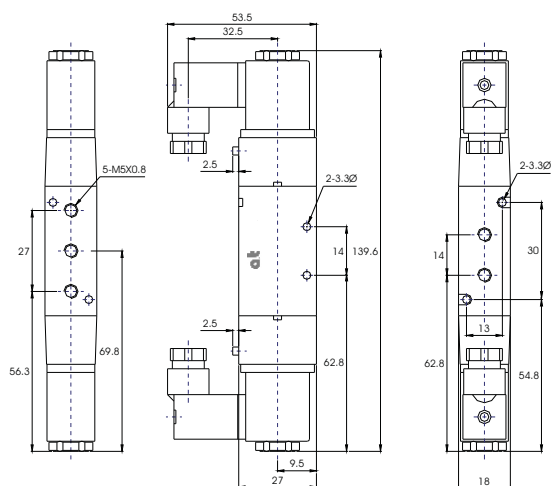
4V110-M5 5/2 way Single Solenoid Valve



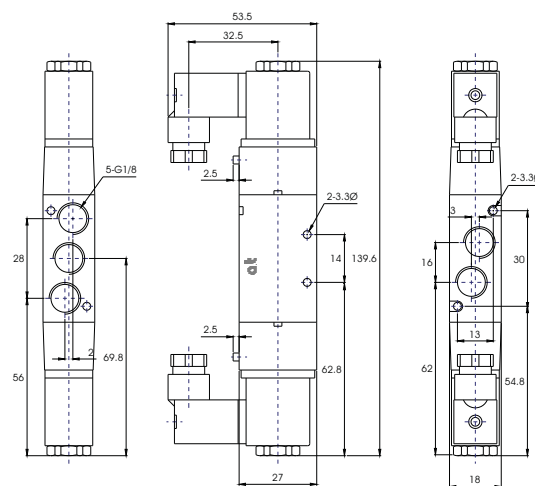
4V110-06 5/2 way Single Solenoid Valve



4V120-M5 5/2 way Double Solenoid Valve

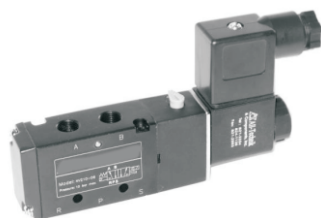


4V120-06 5/2 way Double Solenoid Valve

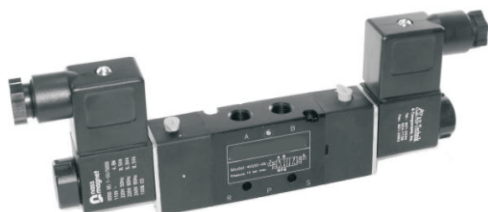


200 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

4V2 - 10 - 06 - B - AC220V - DIN

4V2 - 200 series Directional Solenoid Valve

10 - 5/2 way Single Solenoid

20 - 5/2 way Double Solenoid

30C - 5/3 way Double Solenoid Close Center

30E - 5/3 way Double Solenoid Exhaust Center

30P - 5/3 way Double Solenoid Open Center

06 - G 1/8"

08 - G 1/4"

Blank - Body Ported

B - Namur Mounting

DC12V - 12Vdc

AC24V - 24Vac / 60Hz

DC24V - 24Vdc

AC110V - 110Vac / 60Hz

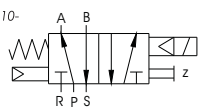
DC110V - 110Vdc

AC220V - 220Vac / 60Hz

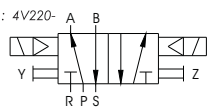
DIN-LED - Socket w/ LED

DIN - Socket w/o LED

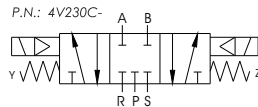
P.N.: 4V210-



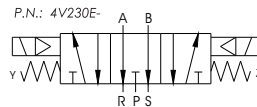
P.N.: 4V220-



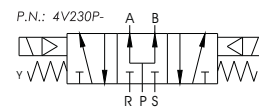
P.N.: 4V230C-



P.N.: 4V230E-



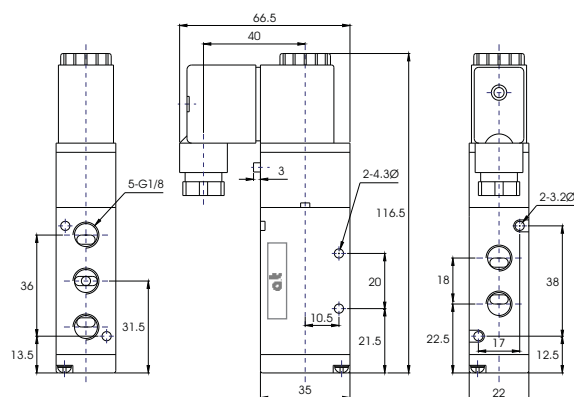
P.N.: 4V230P-



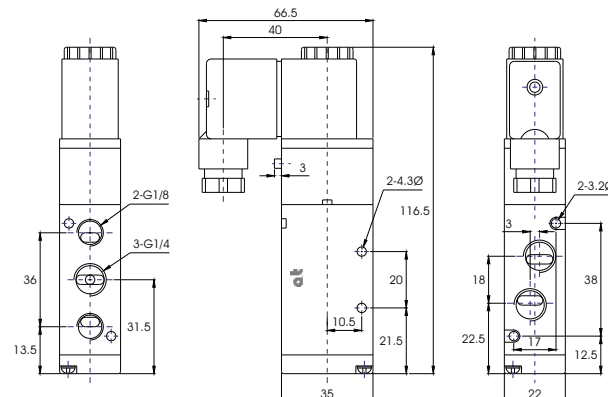
Solenoid Valve Specifications

Solenoid Valve Specifications										
Part Number	4V210-06	4V220-06	4V230C-06	4V230E-06	4V230P-06	4V210-08	4V220-08	4V230C-08	4V230E-08	4V230P-08
Orifice Size	14mm² (CV=0.78)		12mm² (CV=0.67)			16mm² (CV=0.89)		12mm² (CV=0.67)		
Port Connection	Supply, Outlet, Exhaust G 1/8"					Supply & Outlet G 1/4", Exhaust G 1/8"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm², 22 ~ 117.6 PSI									
MaximumTest Pressure	1 MPa, 10 Kg/cm², 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									
Power Consumption	AC: 5.5VA DC: 4.8W ±10%									
Protection	F Class. IP65									
Connector	Lead Wire or Socket Type (DIN)									
Sw itching Cycle	5 Cycle / Sec									

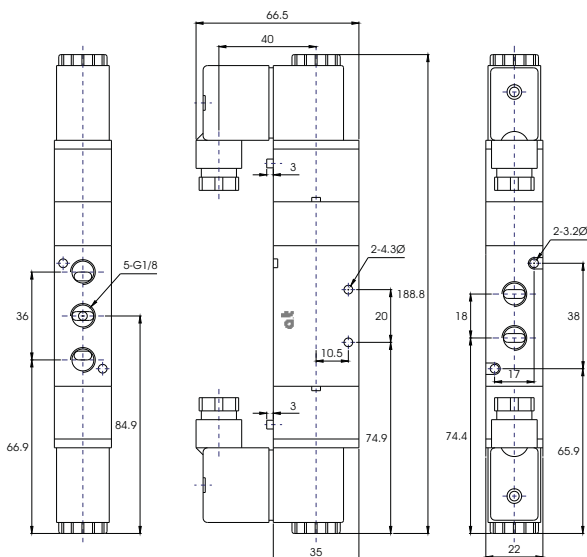
4V210-06 5/2 way Single Solenoid Valve



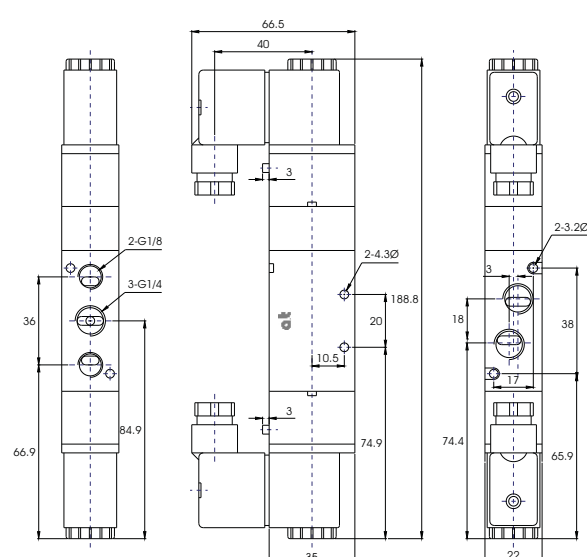
4V210-08 5/2 way Single Solenoid Valve



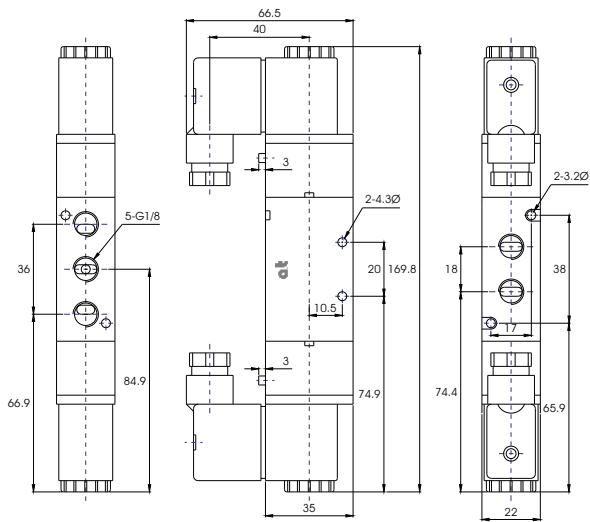
4V230 - 06 5/3 way Double Solenoid Valve



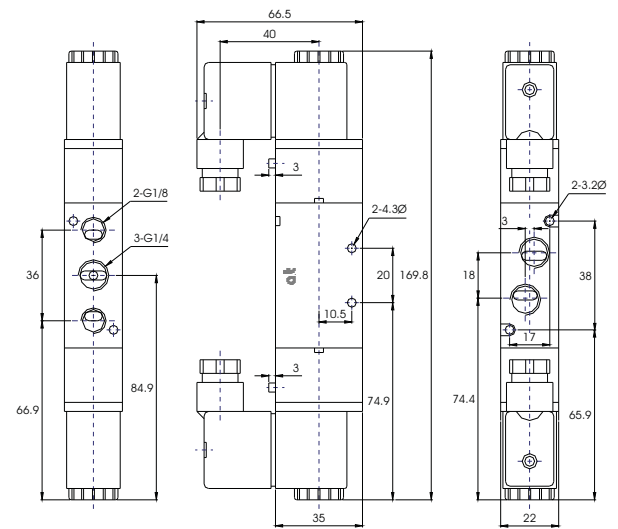
4V230 - 08 5/3 way Double Solenoid Valve



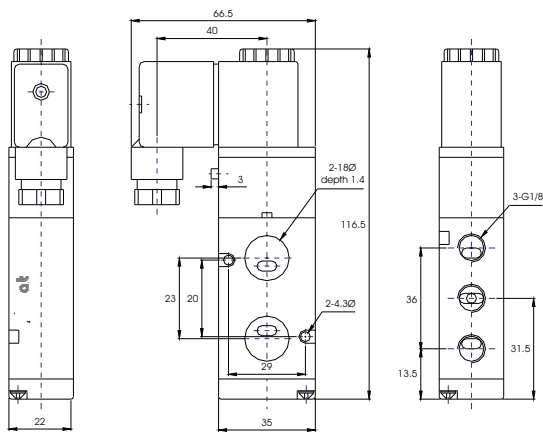
4V220-06 5/2 way Double Solenoid Valve



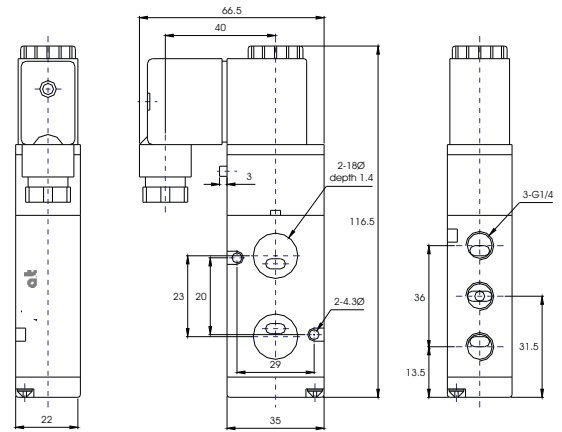
4V220-08 5/2 way Double Solenoid Valve



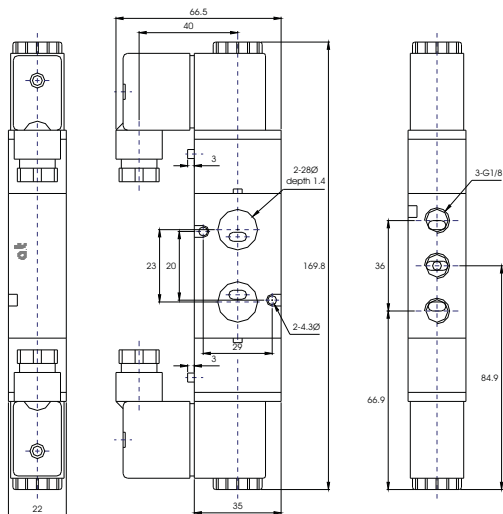
4V210-06-B 5/2 way Single Solenoid Valve NAMUR



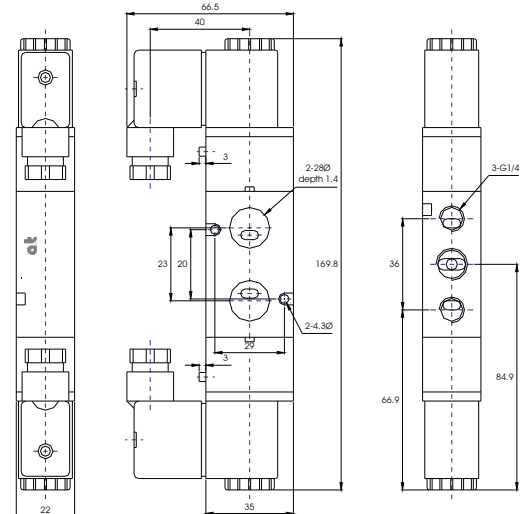
4V210-08-B 5/2 way Single Solenoid Valve NAMUR



4V220-06-B 5/2 way Double Solenoid Valve NAMUR



4V220-08-B 5/2 way Double Solenoid Valve NAMUR



300 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

4V3 - 10 - 08 - B - AC220V - DIN

4V3 - 300 series, Directional Solenoid Valve

10 - 5/2 way Single Solenoid
20 - 5/2 way Double Solenoid
30C - 5/3 way Double Solenoid Close Center
30E - 5/3 way Double Solenoid Exhaust Center
30P - 5/3 way Double Solenoid Open Center

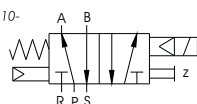
08 - G 1/4" **10** - G 3/8"

Blank - Body Ported **B** - Namur Mounting

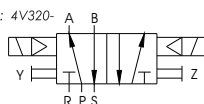
DC12V - 12Vdc **AC24V** - 24Vac / 60Hz
DC24V - 24Vdc **AC110V** - 110Vac / 60Hz
DC110V - 110Vdc **AC220V** - 220Vac / 60Hz

DIN-LED - Socket w/ LED **DIN** - Socket w/o LED

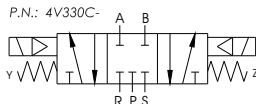
P.N.: 4V310-



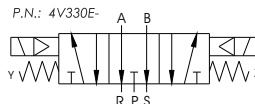
P.N.: 4V320-



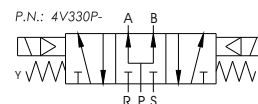
P.N.: 4V330C-



P.N.: 4V330E-



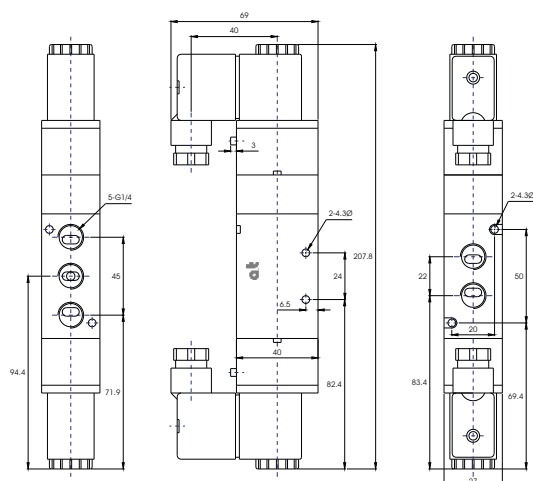
P.N.: 4V330P-



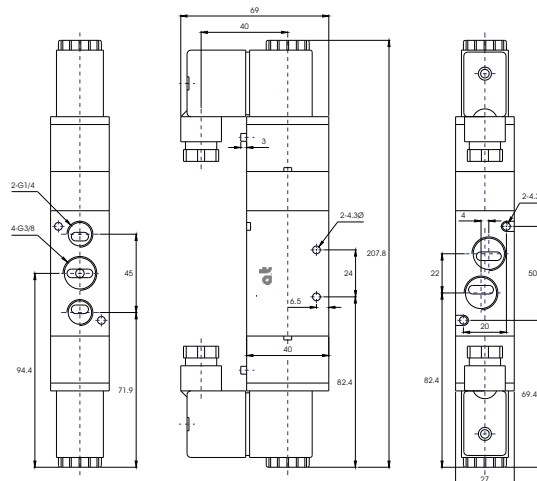
Solenoid Valve Specification

Solenoid Valve Specification										
Part Number	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
Orifice Size	25mm ² (CV=1.40)		18mm ² (CV=1.00)			30mm ² (CV=1.68)		18mm ² (CV=1.00)		
Port Connection	Supply, Outlet, Exhaust G 1/4"					Supply & Outlet G 3/8", Exhaust G 1/4"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI									
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									
Power Consumption	AC: 5.5VA DC: 4.8W ±10%									
Protection	F Class. IP65									
Connector	Lead Wire or Socket Type (DIN)									
Switching Cycle	5 Cycle / Sec									

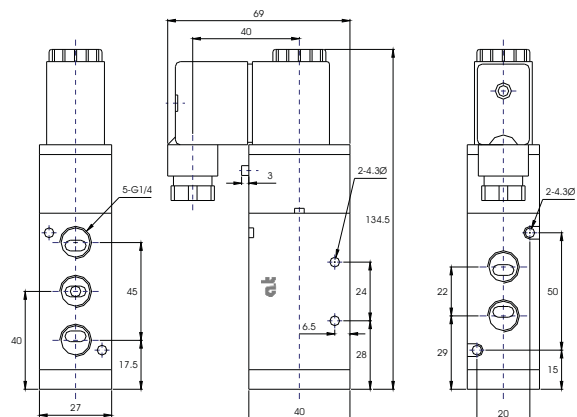
4V330 -08 5/3 way Double Solenoid Valve



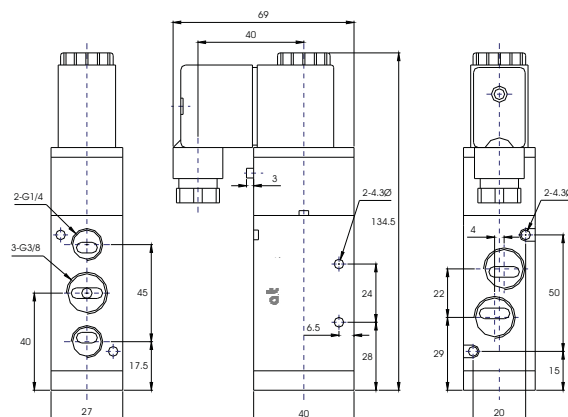
4V330 -10 5/3 way Double Solenoid Valve



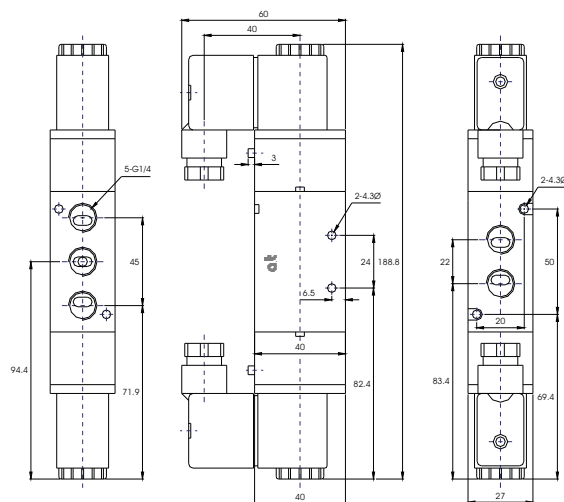
4V310-08 5/2 way Single Solenoid Valve



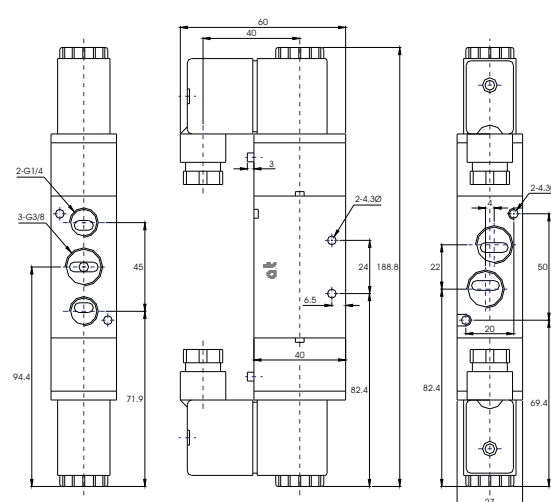
4V310-10 5/2 way Single Solenoid Valve



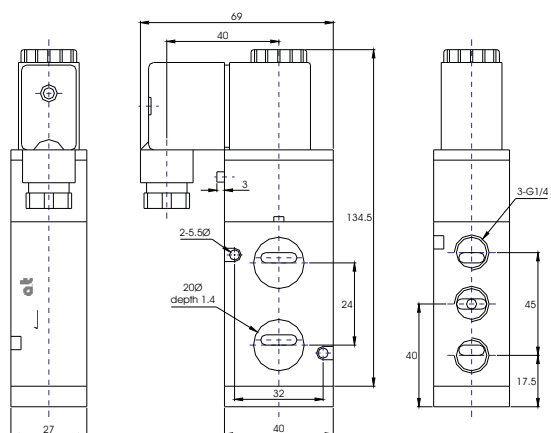
4V320-08 5/2 way Double Solenoid Valve



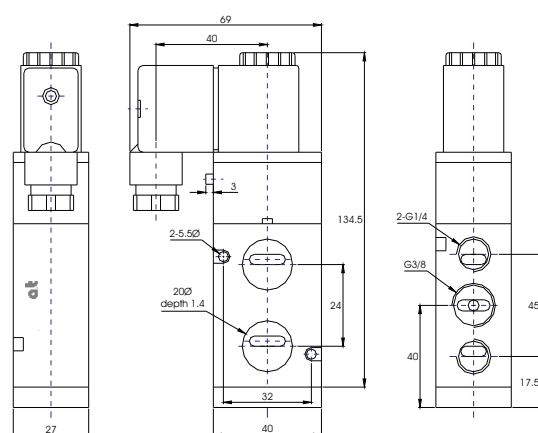
4V320-10 5/2 way Double Solenoid Valve



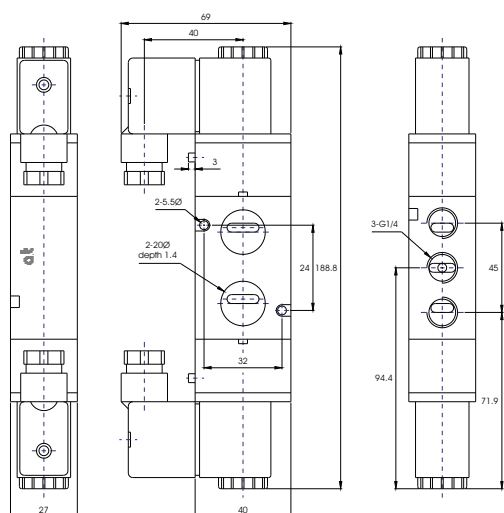
4V310-08-B 5/2 way Single Solenoid Valve NAMUR



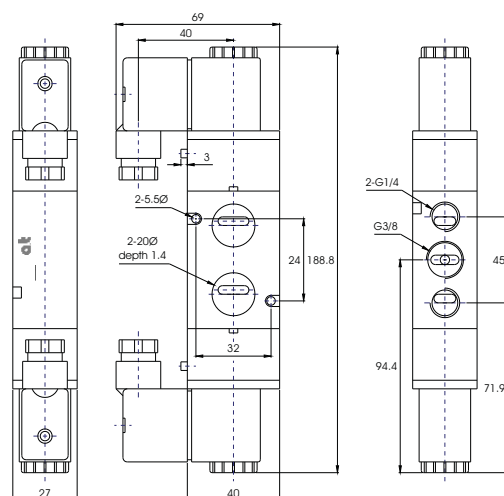
4V310-10-B 5/2 way Single Solenoid Valve NAMUR



4V320-08-B 5/2 way Single Solenoid Valve NAMUR



4V320-10-B 5/2 way Single Solenoid Valve NAMUR



400 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

4V4 - 10 - 15 - AC220V - DIN

4V4 - 400 series, Directional Solenoid Valve

10 - 5/2 way Single Solenoid

20 - 5/2 way Double Solenoid

30C - 5/3 way Double Solenoid close Center

30E - 5/3 way Double Solenoid Exhaust Center

30P - 5/3 way Double Solenoid Open Center

15 - G 1/2"

DC12V - 12Vdc

DC24V - 24Vdc

DC110V - 110Vdc

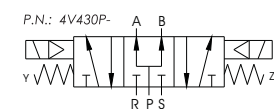
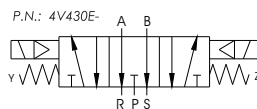
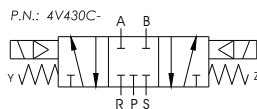
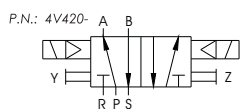
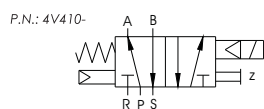
AC24V - 24Vac / 60Hz

AC110V - 110Vac / 60Hz

AC220V - 220Vac / 60Hz

DIN-LED - Socket w/ LED

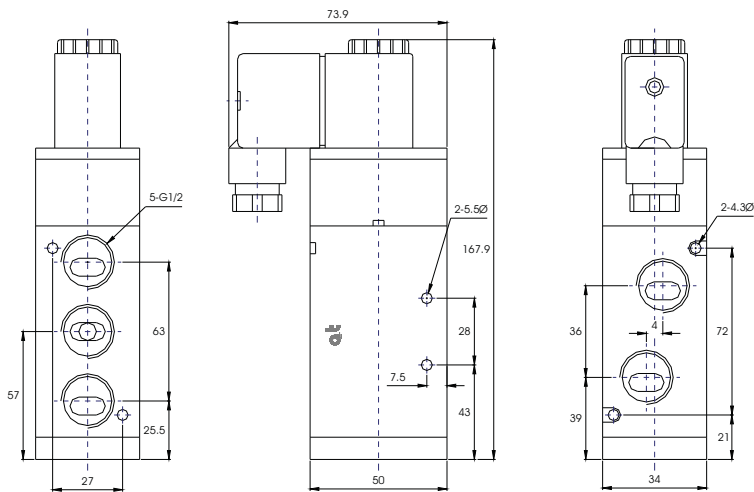
DIN - Socket w/o LED



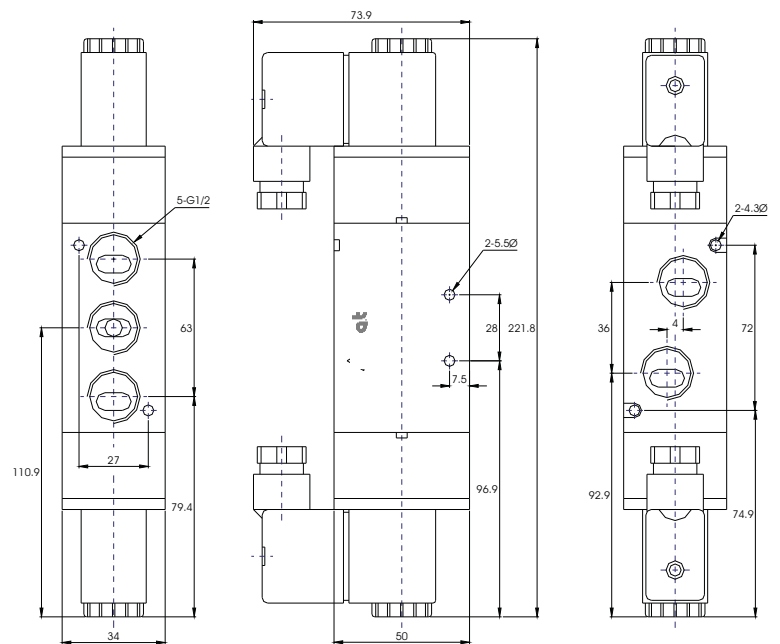
Solenoid Valve Specification

Solenoid Valve Specification					
Part Number	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Orifice Size	50mm ² (CV=2.79)		30mm ² (CV=1.68)		
Port Connection	Supply, Outlet, Exhaust G 1/2"				
Working Medium	40 Micron Filtered Air				
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI				
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI				
Working Temperature	5 ~ 60°C, 41 ~ 140°F				
Power Consumption	AC: 5.5VA DC: 4.8W ±10%				
Protection	F Class. IP65				
Connector	Lead Wire or Socket Type (DIN)				
Switching Cycle	5 Cycle / Sec				

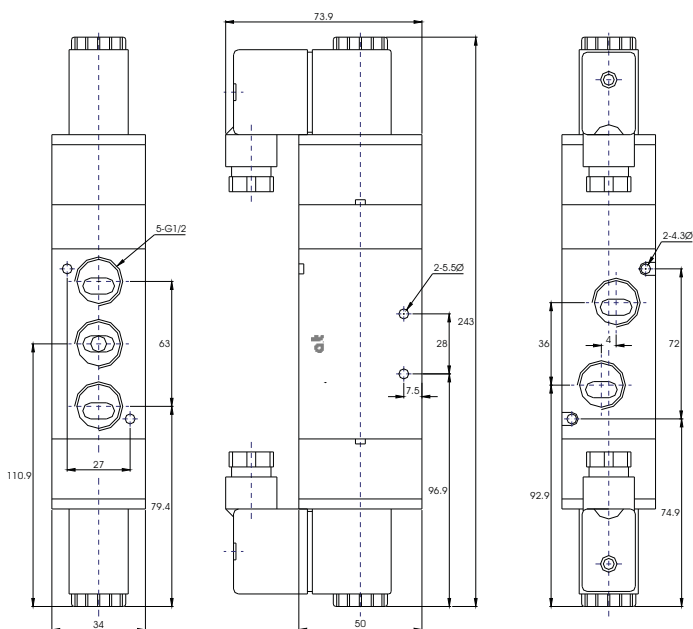
4V410-15 5/2 way Single Solenoid Valve



4V420-15 5/2 way Double Solenoid Valve



4V430-15 5/3 way Double Solenoid Valve

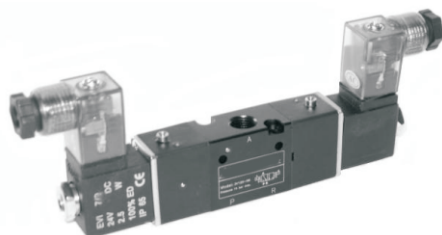


100 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

3V1 - 10 - M5 - NO - AC220V - DIN

3V1 - 100 series, Directional Solenoid Valve

10 - 3/2 way Single Solenoid

20 - 3/2 way Double Solenoid

M5 - M5 X 0.8

06 - G 1/8"

Blank - Normally Close

NO - Normally Open

DC12V - 12Vdc

DC24V - 24Vdc

DC110V - 110Vdc

AC24V - 24Vac / 60Hz

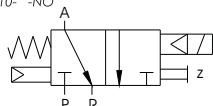
AC110V - 110Vac / 60Hz

AC220V - 220Vac / 60Hz

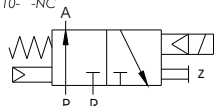
DIN-LED - Socket w/ LED

DIN - Socket w/o LED

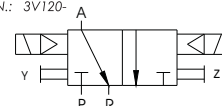
P.N.: 3V110- -NO



P.N.: 3V110- -NC



P.N.: 3V120-

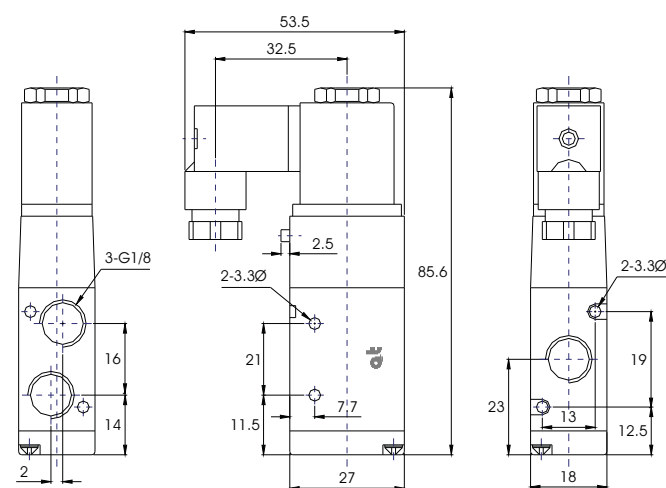
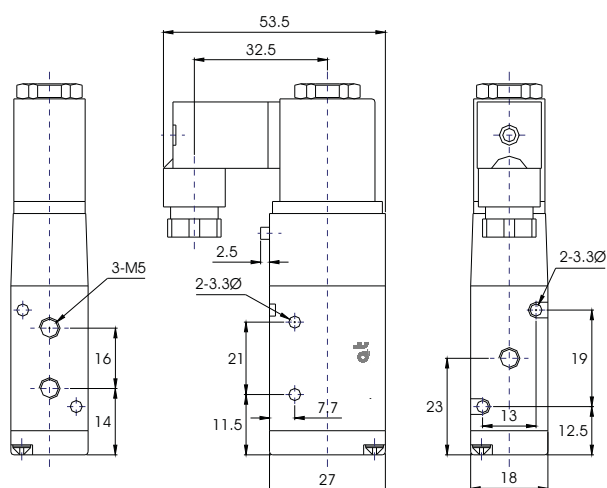


Solenoid Valve Specification

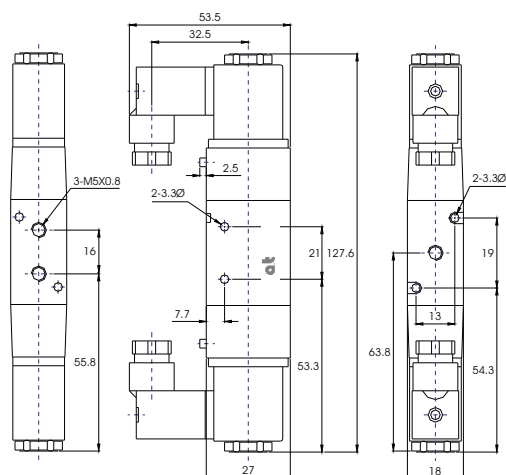
Solenoid Valve Specification				
Part Number	3V110-M5	3V120-M5	3V110-06	3V120-06
Orifice Size	10mm ² (CV=0.56)		12mm ² (CV=0.67)	
Port Connection	Supply, Outlet, Exhaust M5 X 0.8		Supply, Outlet, Exhaust G 1/8"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI			
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			
Power Consumption	AC: 2.5VA DC: 2.5W ±10%			
Protection	F Class. IP65			
Connector	Lead Wire or Socket Type (DIN)			
Switching Cycle	5 Cycle / Sec			

3V110-M5-NO/NC 3/2 way Single Solenoid Valve

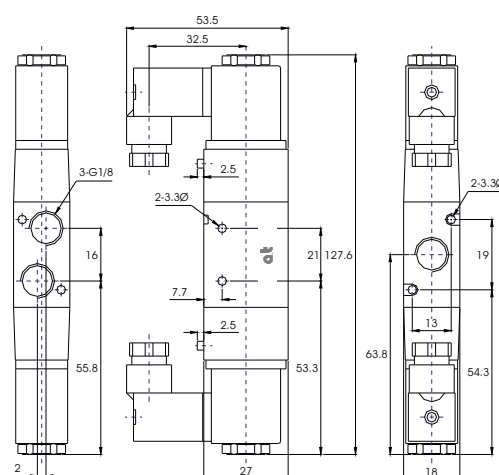
3V110-06-NO/NC 3/2 way Single Solenoid Valve



3V120-M5 5/2 way Double Solenoid Valve



3V120-06 5/2 way Double Solenoid Valve

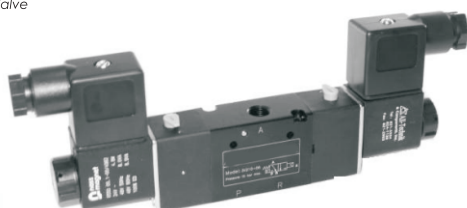


200 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

3V2 - 10 - 06 - NO - AC220V - DIN

3V2 - 200 series, Directional Solenoid Valve

10 - 3/2 way Single Solenoid

20 - 3/2 way Double Solenoid

06 - G 1/8"

08 - G 1/4"

Blank - Normally Close

NO - Normally Open

DC12V - 12Vdc

DC24V - 24Vdc

DC110V - 110Vdc

AC24V - 24Vac / 60hz

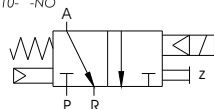
AC110V - 110Vac / 60Hz

AC220V - 220Vac / 60Hz

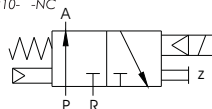
DIN-LED - Socket w/ LED

DIN - Socket w/o LED

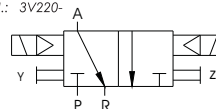
P.N.: 3V210- -NO



P.N.: 3V210- -NC



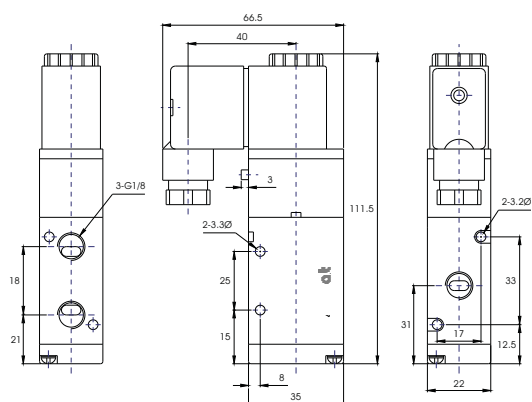
P.N.: 3V220-



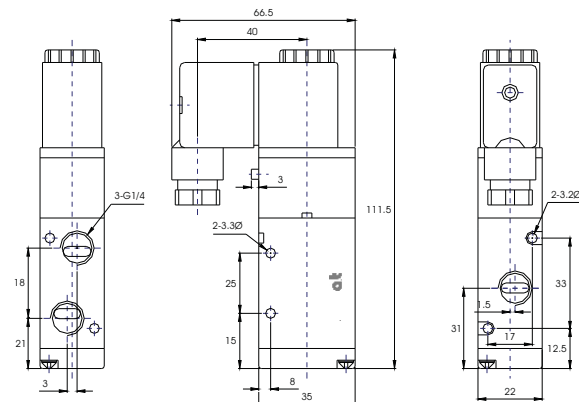
Solenoid Valve Specification

Solenoid Valve Specification				
Part Number	3V210-06	3V220-06	3V210-08	3V220-08
Orifice Size	14mm ² (CV=0.78)		16mm ² (CV=0.89)	
Port Connection	Supply, Outlet, Exhaust G 1/8"		Supply & Outlet G 1/4", Exhaust G 1/8"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI			
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			
Power Consumption	AC: 5.5VA DC: 4.8W ±10%			
Protection	F Class. IP65			
Connector	Lead Wire or Socket Type (DIN)			
Switching Cycle	5 Cycle / Sec			

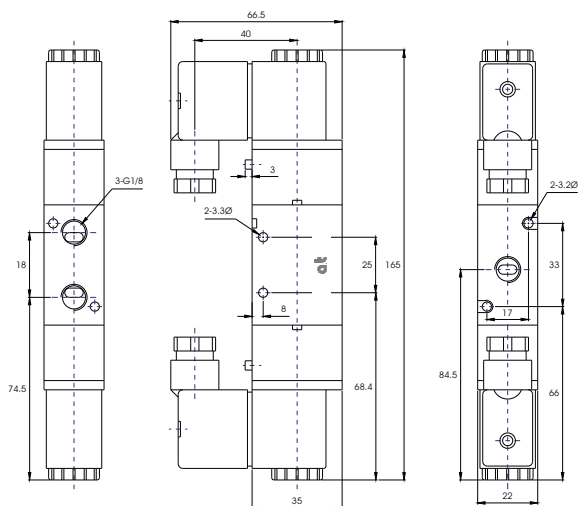
3V210-06-NO/NC 3/2 way Single Solenoid Valve



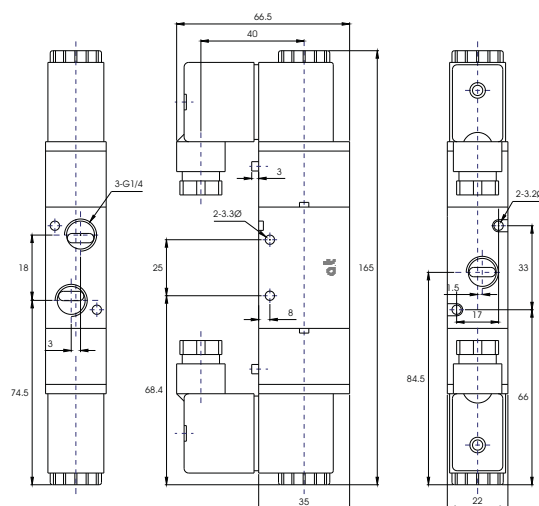
3V210-08-NO/NC 3/2 way Single Solenoid Valve



3V220-06 3/2 way Double Solenoid Valve

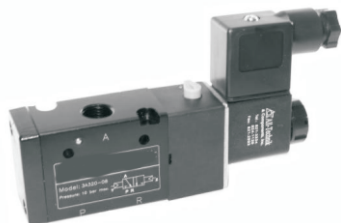


3V220-08 3/2 way Double Solenoid Valve

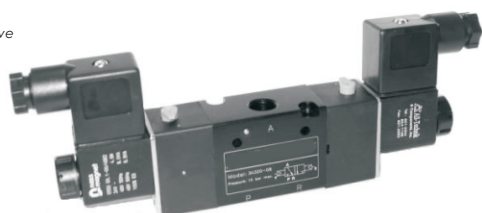


300 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

3V3 - **10** - **08** - **NO** - **AC220V** - **DIN**

3V3 - 300 series, Directional Solenoid Valve

10 - 3/2 way Single Solenoid

20 - 3/2 way Double Solenoid

08 - G 1/4"

10 - G 3/8"

Blank - Normally Close

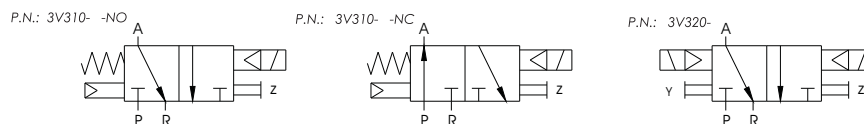
NO - Normally Open

DC12V - 12Vdc **AC24V** - 24Vac / 60Hz

DC24V - 24Vdc **AC110V** - 110Vac / 60Hz

DC110V - 110Vdc **AC220V** - 220Vac / 60Hz

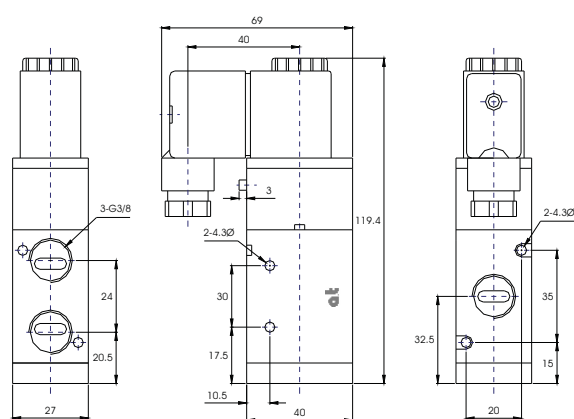
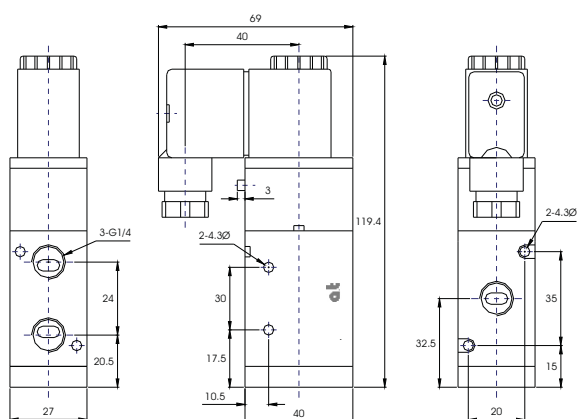
DIN-LED - Socket w/ LED **DIN** - Socket w/o LED



Solenoid Valve Specification				
Part Number	3V310-08	3V320-08	3V310-10	3V320-10
Orifice Size	25mm² (CV=1.40)		30mm² (CV=1.68)	
Port Connection	Supply, Outlet, Exhaust G 1/4"		Supply & Outlet G 3/8", Exhaust G 1/4"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kgf/cm², 22 ~ 117.6 PSI			
MaximumTest Pressure	1 MPa, 10 Kgf/cm², 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			
Pow er Consumption	AC: 5.5VA DC: 4.8W ±10%			
Protection	F Class. IP65			
Connector	Lead Wire or Socket Type (DIN)			
Sw itching Cycle	5 Cycle / Sec			

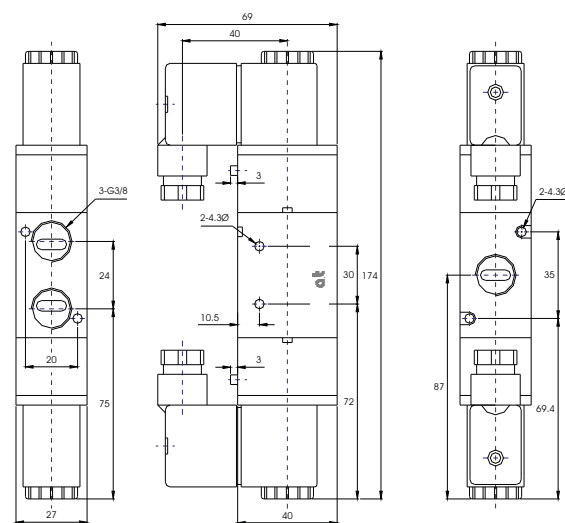
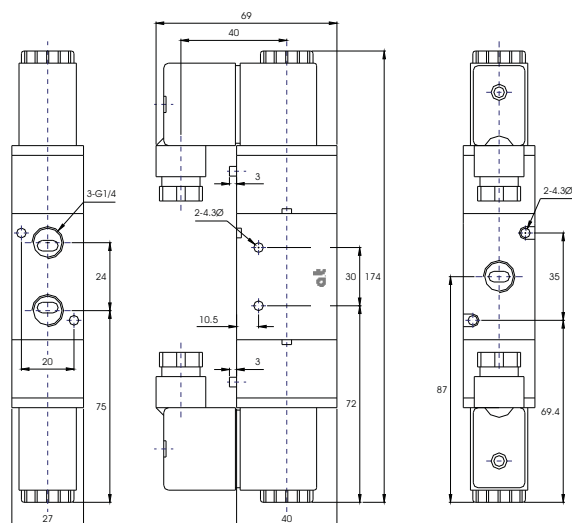
3V310-08-NO/NC 3/2 way Single Solenoid Valve

3V310-10-NO/NC 3/2 way Single Solenoid Valve



3V320-08 5/2 way Double Solenoid Valve

3V320-10 5/2 way Double Solenoid Valve

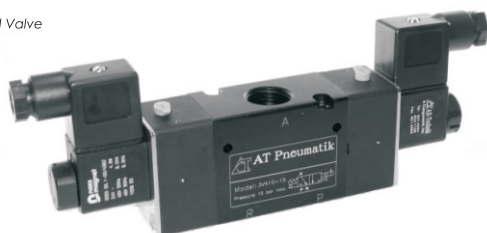


400 Series Directional Solenoid Valve

Single Solenoid Valve



Double Solenoid Valve



Ordering Code

3V4 - **10** - **15** - **NO** - **AC220V** - **DIN**

3V4 - 400 series, Directional Solenoid Valve

10 - 3/2 way Single Solenoid
20 - 3/2 way Double Solenoid

15 - G 1/2"

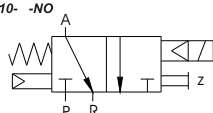
Blank - Normally Close
NO - Normally Open

DC12V - 12Vdc
DC24V - 24Vdc
DC110V - 110Vdc

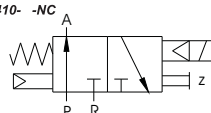
AC24V - 24Vac / 60Hz
AC110V - 110Vac / 60Hz
AC220V - 220Vac / 60Hz

DIN-LED - Socket w/ LED
DIN - Socket w/o LED

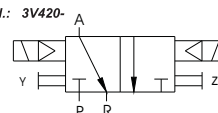
P.N.: 3V410- -NO



P.N.: 3V410- -NC



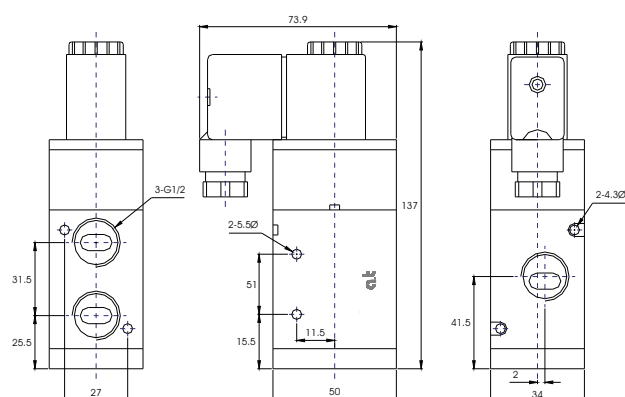
P.N.: 3V420-



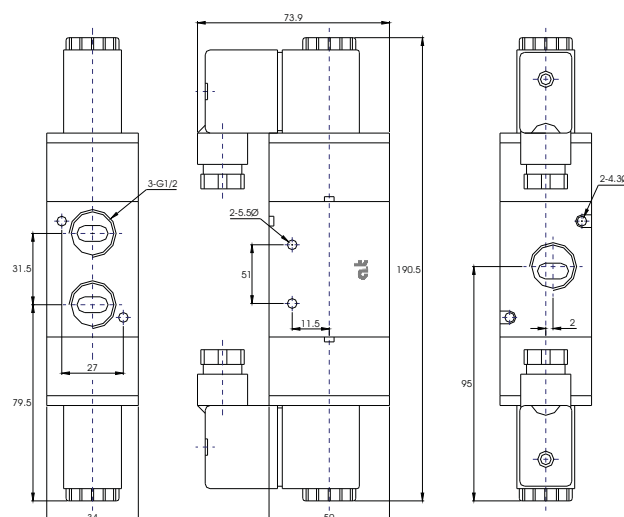
Solenoid Valve Specification

Part Number	3V410-15	3V420-15
Power Consumption	AC: 5.5VA DC: 4.8W ±10%	
Protection	F Class. IP65	
Connector	Lead Wire or Socket Type (DIN)	
Orifice Size	50mm ² (CV=2.79)	
Port Connection	Supply, Outlet, Exhaust G 1/2"	
Working Medium	40 Micron Filtered Air	
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI	
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI	
Working Temperature	5 ~ 60°C, 41 ~ 140°F	
Switching Cycle	5 Cycle / Sec	

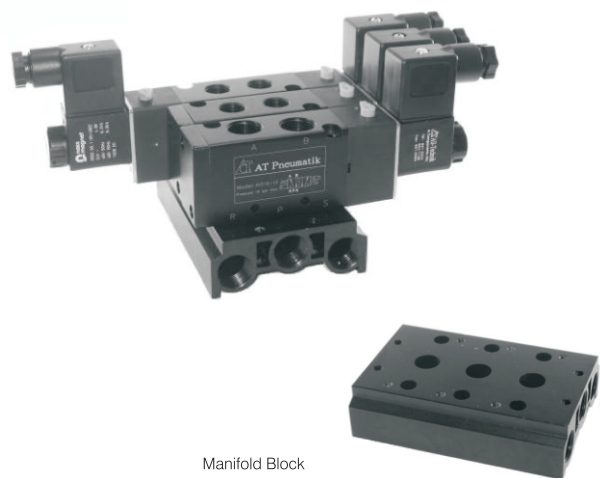
3V410-15-NO/NC 3/2 way Single Solenoid Valve



3V420-15 5/2 way Double Solenoid Valve



Manifold Block for Solenoid Valve



Manifold Block

Ordering Code

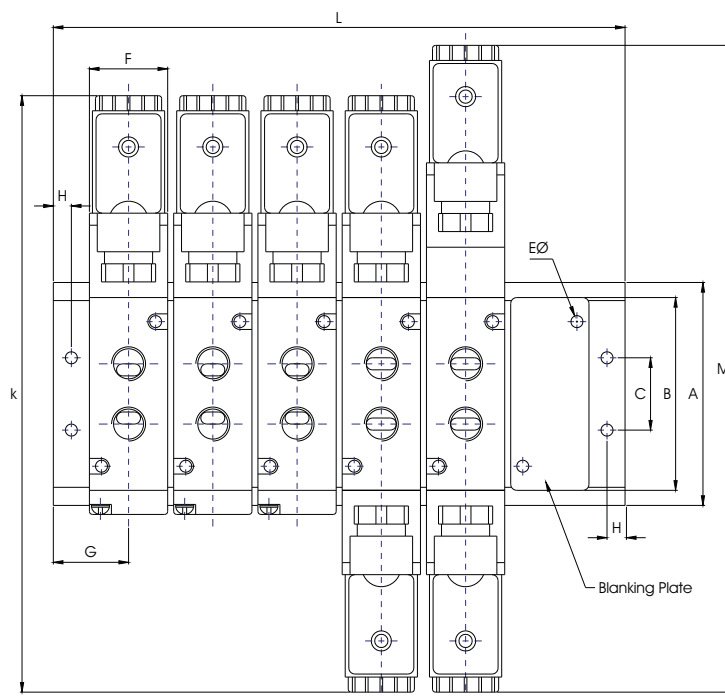
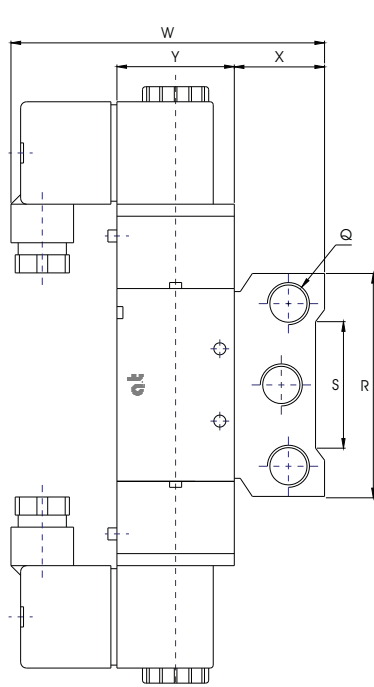
100M - N - F

100M - 100 series valve
200M - 200 series valve
300M - 300 series valve
400M - 400 series valve

N - Specify the required valves quantity

Note:

Manifold is available from minimum of 2 stations to maximum of 12 stations



Note: n = number of valve or station

Manifold Dimension

Manifold Series	A	B	C	E	F	G	H	K	L	M	Q	R	S	W	X	Y
100M - F	58	44	20	4.2	18.3	19	5	140	$\{(n-1) \times 19\} + 38$	155	G1/4	40	30	78.5	25	27
200M - F	61	51	21	4.3	22.4	23	6	170	$\{(n-1) \times 23\} + 46$	189	G1/4	43	32	92.5	26	35
300M - F	75	65	26	4.5	27.3	27	6	189	$\{(n-1) \times 28\} + 54$	208	G3/8	53	48	99	30	40
400M - F	10	95	32	5.5	34.3	31.5	7	222	$\{(n-1) \times 35\} + 63$	243	G1/2	68	67	112	38	50

Solenoid Coil

Solenoid Coil BSC



Solenoid Coil SSC

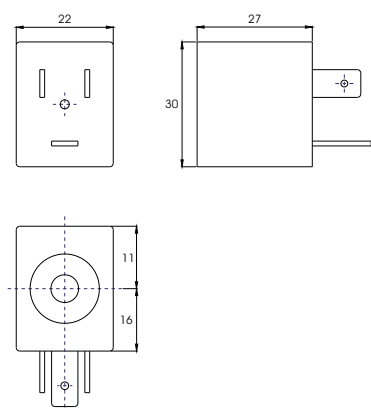


Ordering Code

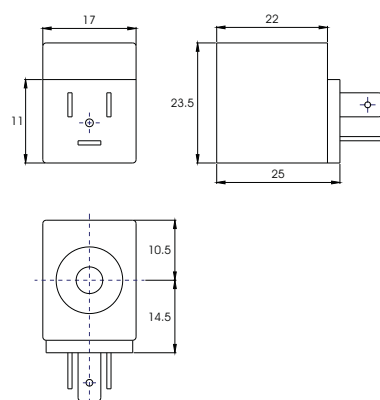
BSC - DC24V - NASS

BSC	-	Solenoid coil for 200 to 400 series valve
SSC	-	Solenoid coil for 100 series valve
DC12V	-	12Vdc
DC24V	-	24Vdc
DC110V	-	110Vdc
AC24V	-	24Vac / 60Hz
AC110V	-	110Vac / 60Hz
AC220V	-	220Vac / 60Hz
BLANK	-	Standard Solenoid Coil
NASS	-	Special Solenoid Coil Made in Germany

Solenoid Coil 200, 300 & 400 series Solenoid Valve



Solenoid Coil 100 series Solenoid Valve



DIN Plug

DIN Plug for BSC



Without Light Indicator



With Light Indicator

DIN Plug for SSC



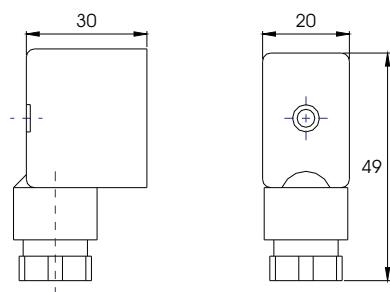
With Light Indicator

Ordering Code

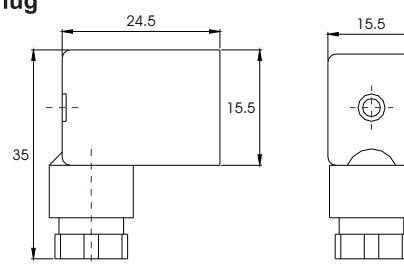
DIN	-	LED - DC
DIN	-	Socket Plug for BSC
DINS	-	Socket Plug for SSC
LED	-	with Light Indicator
Blank	-	without Light Indicator
DC	-	For DC Solenoid Coil
AC	-	For AC Solenoid Coil

DIN-LED-AC can work at any voltage ranges from 5 to 220Vac
DIN-LED-DC can work at any voltage ranges 10 to 110Vdc

DIN Plug



DINS Plug



100 Series Directional Air Pilot Valve

Single Air Pilot Valve

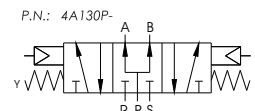
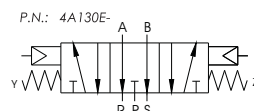
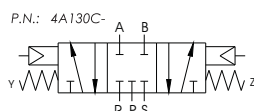
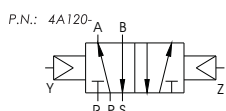
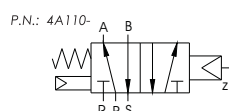


Double Air Pilot Valve



Ordering Code

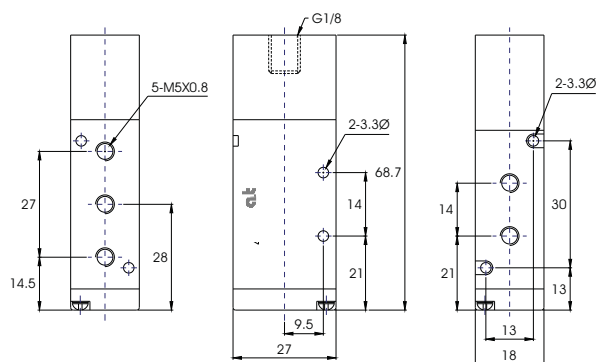
4A1	-	10	-	M5	
4A1	-				100 series Directional Air Pilot Valve
10	-				5/2 way Single Air Pilot
20	-				5/2 way Double Air Pilot
30C	-				5/3 way Double Air Pilot Close Center
30E	-				5/3 way Double Air Pilot Exhaust Center
30P	-				5/3 way Double Air Pilot Open Center
M5	-			M5 X 0.8	06 - G 1/8"



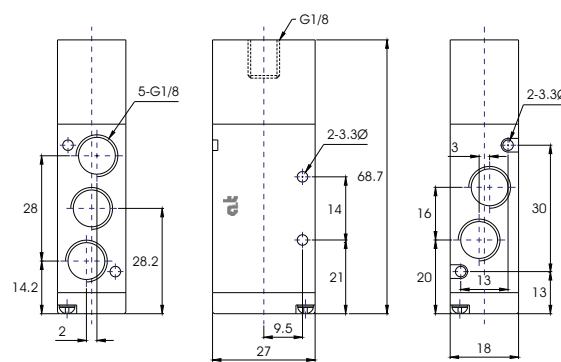
Air Pilot Valve Specification

Air Pilot Valve Specification										
Part Number	4A110-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06
Orifice Size	10mm ² (CV=0.56)					12mm ² (CV=0.67)				
Port Connection	Supply, Outlet, Exhaust M5 X 0.8					Supply, Outlet, Exhaust G 1/8"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI									
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									

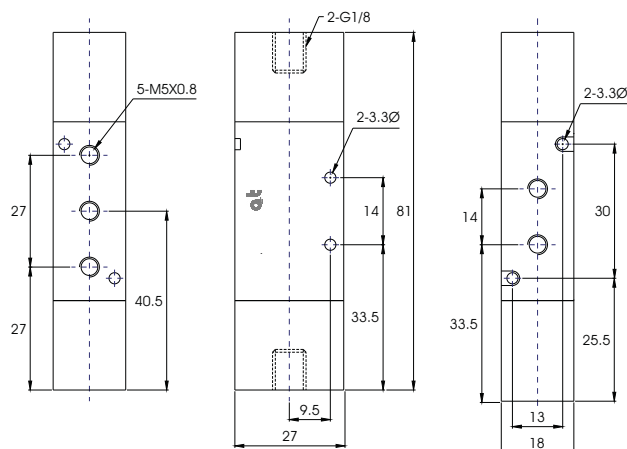
4A110-M5 5/2 way Single Air Pilot Valve



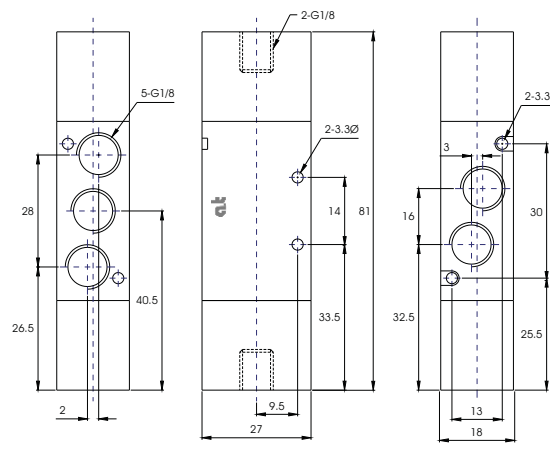
4A110-06 5/2 way Single Air Pilot Valve



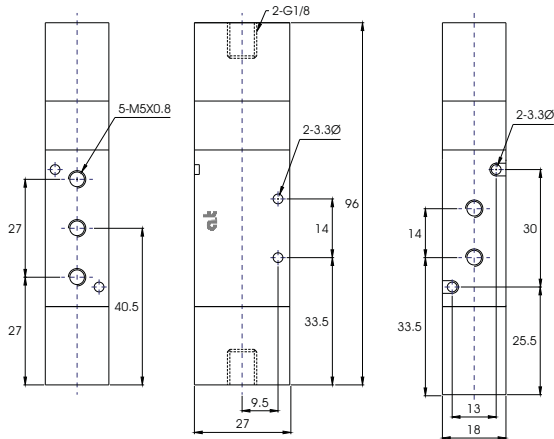
4A120-M5 5/2 way Double Air Pilot Valve



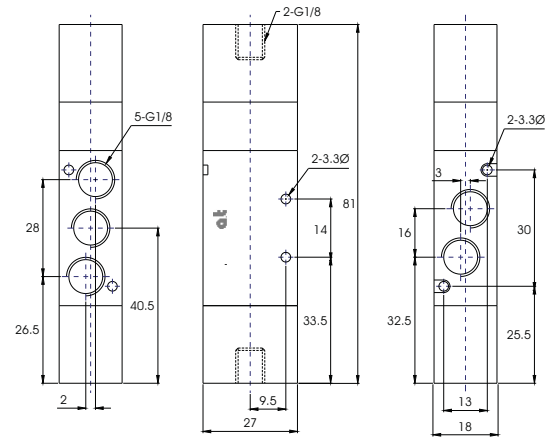
4A120-06 5/2 way Double Air Pilot Valve



4A130 -M5 5/3 way Double Air Pilot Valve



4A130 -06 5/3 way Double Air Pilot Valve



200 Series Directional Air Pilot Valve

Single Air Pilot Valve



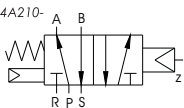
Double Air Pilot Valve



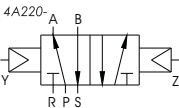
Ordering Code

4A2	-	10	-	06	-	B
4A2	-	200 series, Directional Air Pilot Valve				
10	-	5/2 way Single Air Pilot				
20	-	5/2 way Double Air Pilot				
30C	-	5/3 way Double Air Pilot Close Center				
30E	-	5/3 way Double Air Pilot Exhaust Center				
30P	-	5/3 way Double Air Pilot Open Center				
Blank	-	Body Ported	B	-	Namur Connection	
06	-	G 1/8"	08	-	G 1/4"	

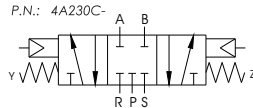
P.N.: 4A210-



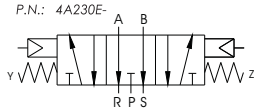
P.N.: 4A220-



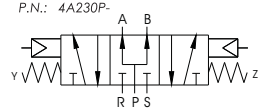
P.N.: 4A230C-



P.N.: 4A230E-



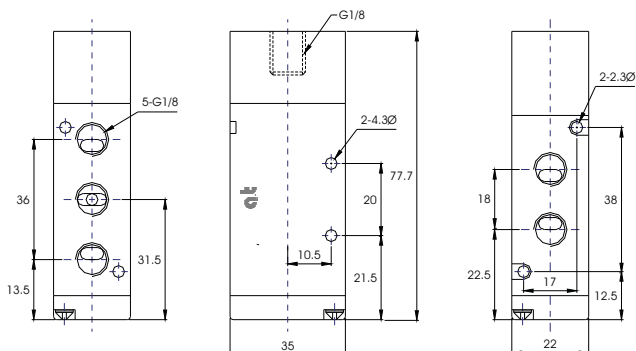
P.N.: 4A230P-



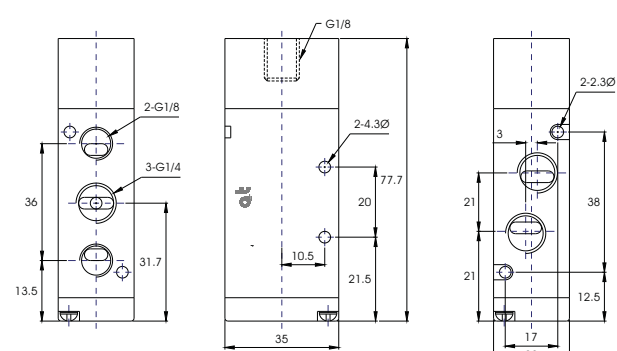
Air Pilot Valve Specification

Air Pilot Valve Specification										
Part Number	4A210-06	4A220-06	4A230C-06	4A230E-06	4A230P-06	4A210-08	4A220-08	4A230C-08	4A230E-08	4A230P-08
Orifice Size	14mm ² (CV=0.78)		12mm ² (CV=0.67)			16mm ² (CV=0.89)		12mm ² (CV=0.67)		
Port Connection	Supply, Outlet, Exhaust G 1/8"					Supply, Outlet G 1/4", Exhaust G 1/8"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kgf/cm ² , 22 ~ 117.6 PSI									
MaximumTest Pressure	1 MPa, 10 Kgf/cm ² , 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									

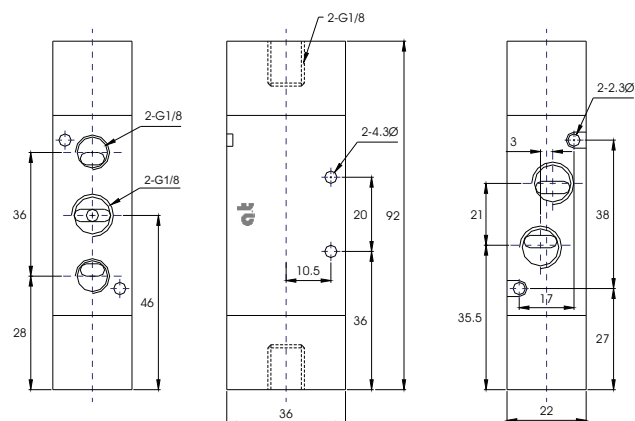
4A210-06 5/2 way Single Air Pilot Valve



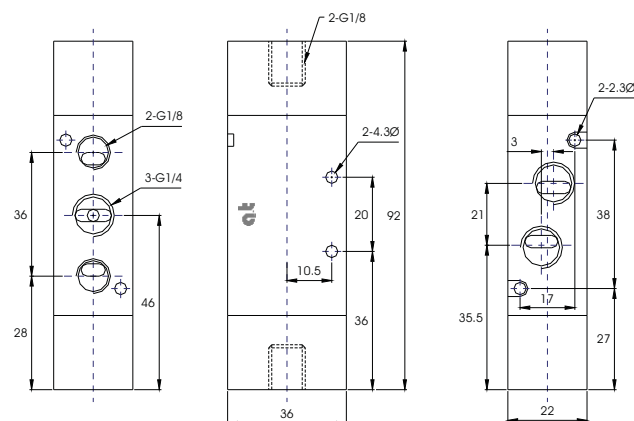
4A210-06 5/2 way Single Air Pilot Valve



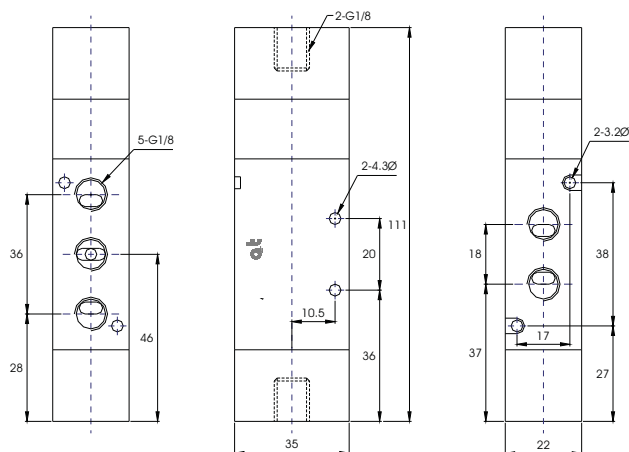
4A220-06 5/2 way Double Air Pilot Valve



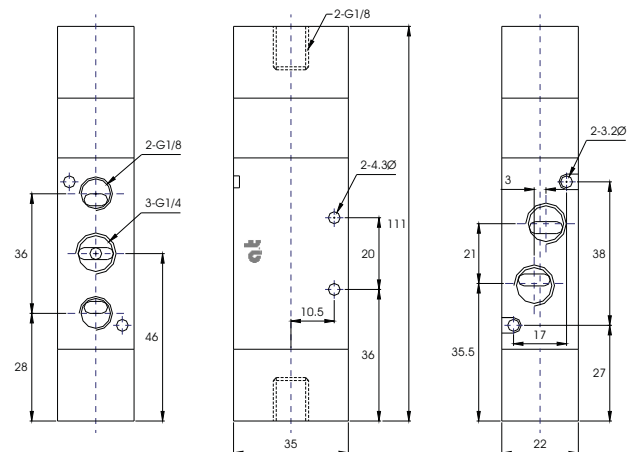
4A220-08 5/2 way Double Air Pilot Valve



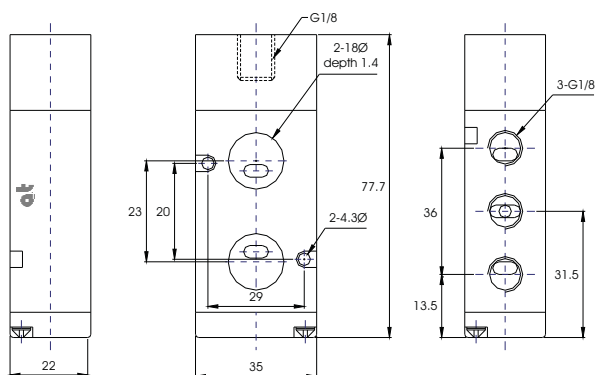
4A230 -06 5/3 way Double Air Pilot Valve



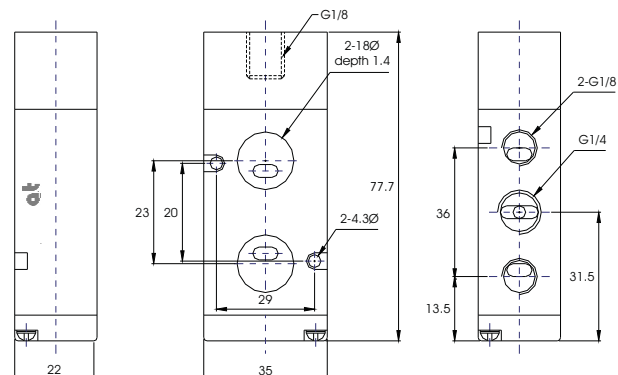
4A230 -08 5/3 way Double Air Pilot Valve



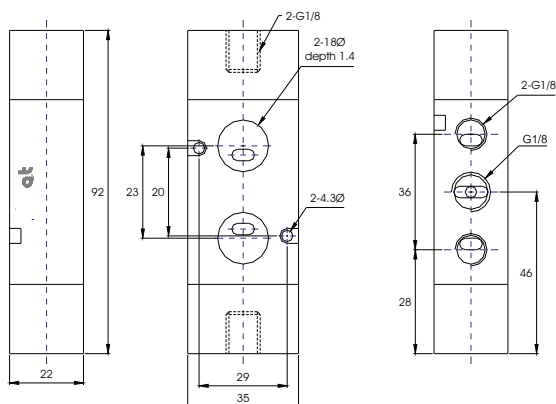
4A210-06B 5/2 way Single Air Pilot Valve NAMUR



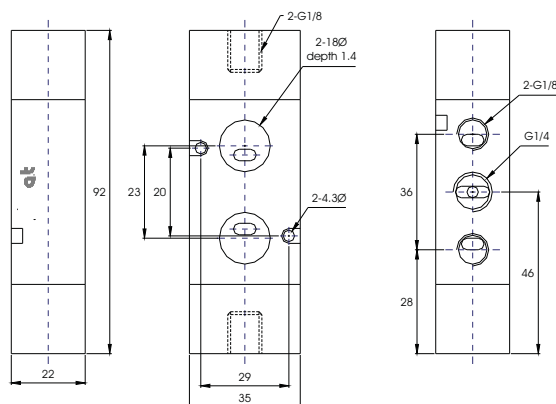
4A210-08B 5/2 way Single Air Pilot Valve NAMUR



4A220-06B 5/2 way Double Air Pilot Valve NAMUR



4A220-08B 5/2 way Double Air Pilot Valve NAMUR



300 Series Directional Air Pilot Valve

Single Air Pilot Valve



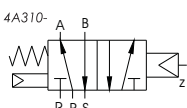
Double Air Pilot Valve



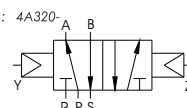
Ordering Code

4A3	-	10	-	08	-	B
4A3	-	300 series, Directional Air Pilot Valve				
10	-	5/2 way Single Air Pilot				
20	-	5/2 way Double Air Pilot				
30C	-	5/3 way Double Air Pilot Close Center				
30E	-	5/3 way Double Air Pilot Exhaust Center				
30P	-	5/3 way Double Air Pilot open Center				
Blank	-	Body Ported		B	-	Namur Connection
08	-	G 1/4"		10	-	G 3/8"

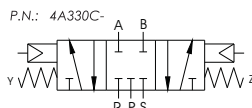
P.N.: 4A310-



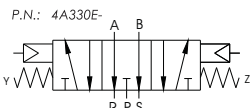
P.N.: 4A320-



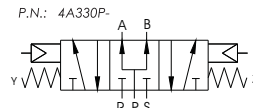
P.N.: 4A330C-



P.N.: 4A330E-



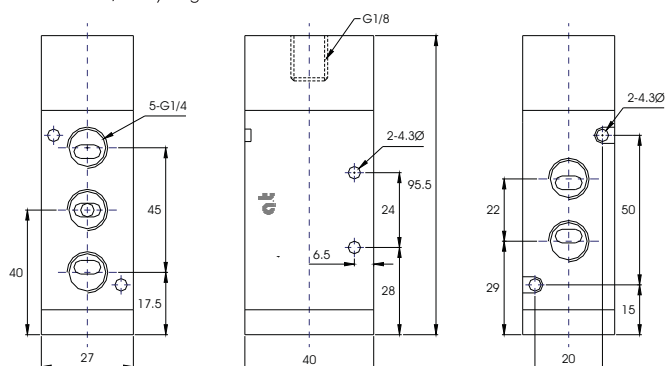
P.N.: 4A330P-



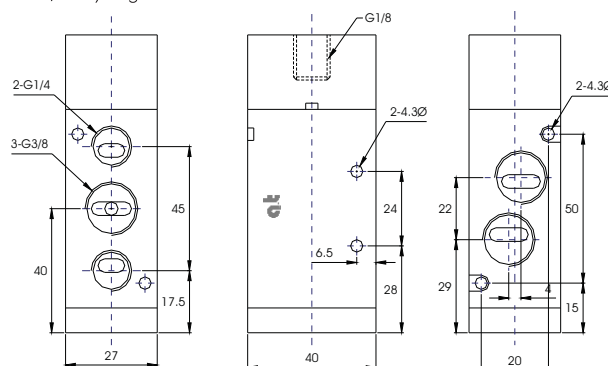
Air Pilot Valve Specification

Part Number	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Orifice Size	25mm ² (CV=1.40)		18mm ² (CV=1.00)			30mm ² (CV=1.68)		18mm ² (CV=1.00)		
Port Connection	Supply, Outlet, Exhaust G 1/4"					Supply, Outlet G 3/8", Exhaust G 1/4"				
Working Medium	40 Micron Filtered Air									
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI									
MaximumTest Pressure	1 MPa, 10 Kg/cm ² , 150 PSI									
Working Temperature	5 ~ 60°C, 41 ~ 140°F									

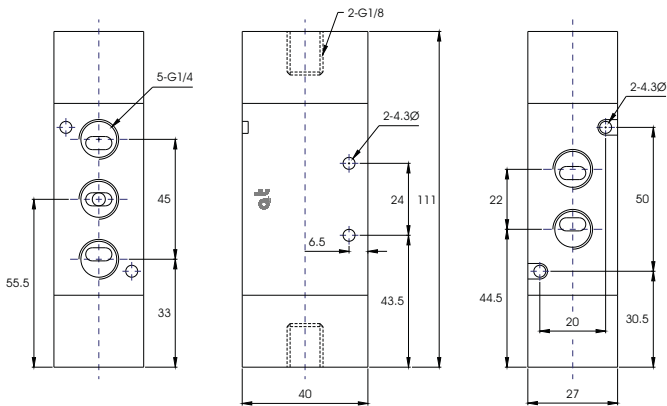
4A310-08 5/2 way Single Air Pilot Valve



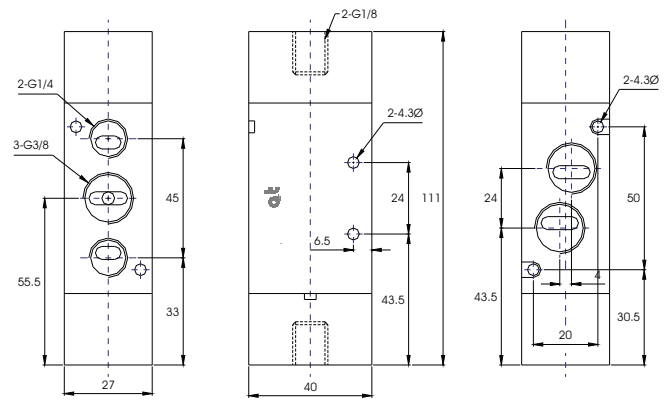
4A310-10 5/2 way Single Air Pilot Valve



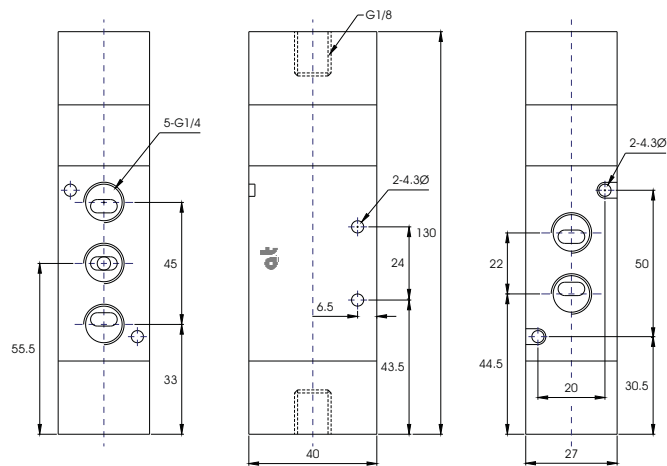
4A320-08 5/2 way Double Air Pilot Valve



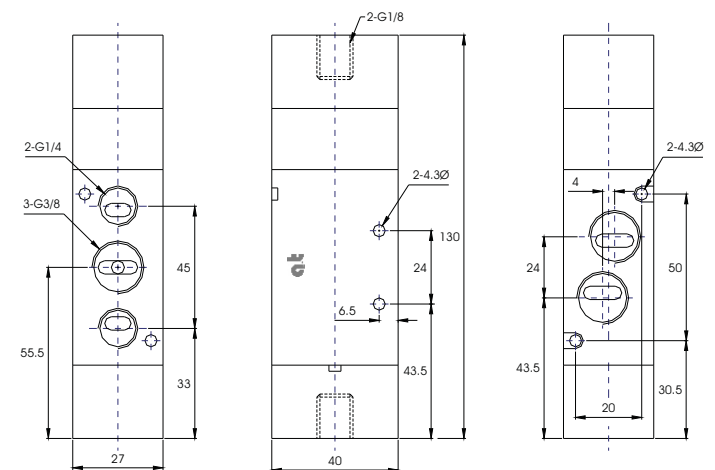
4A320-10 5/2 way Double Air Pilot Valve



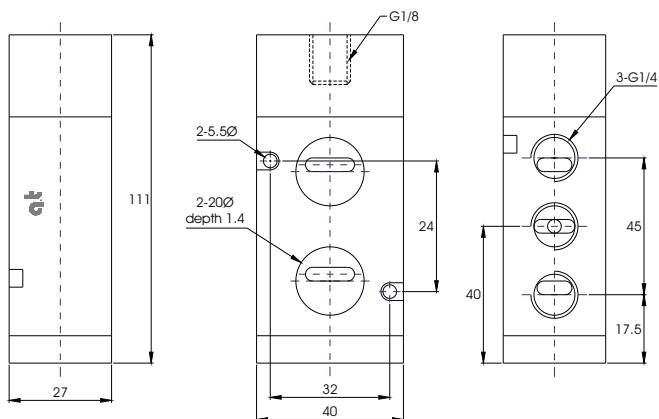
4A330 -08 5/3 way Double Air Pilot Valve



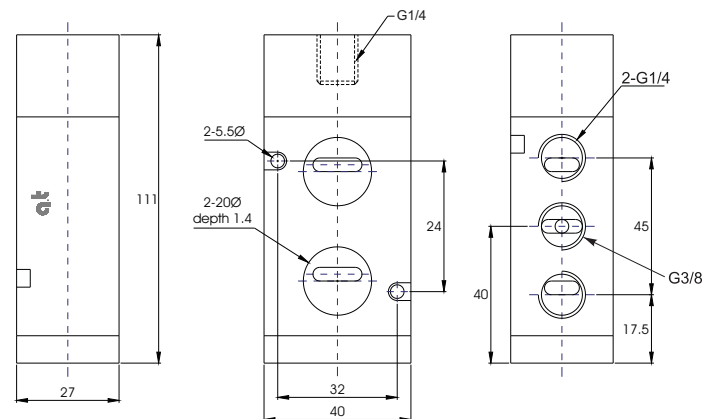
4A330 -10 5/3 way Double Air Pilot Valve



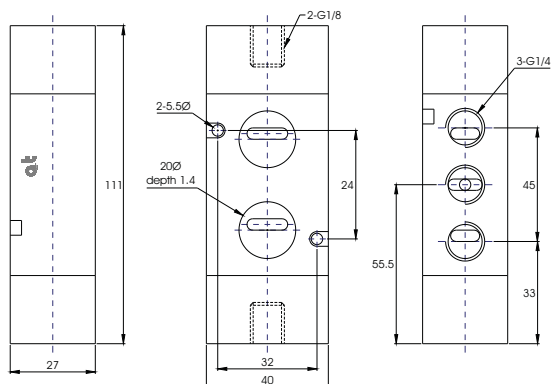
4A310-08B 5/2 way Single Air Pilot Valve NAMUR



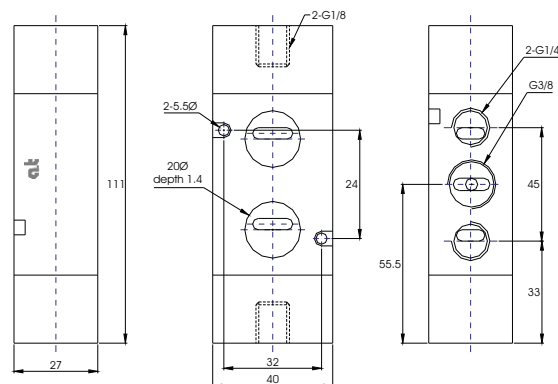
4A310-10B 5/2 way Single Air Pilot Valve NAMUR



4A320-08B 5/2 way Double Air Pilot Valve



4A320-10B 5/2 way Double Air Pilot Valve



400 Series Directional Air Pilot Valve

Single Air Pilot Valve

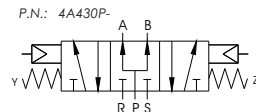
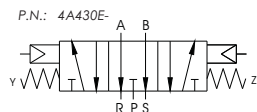
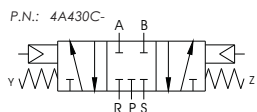
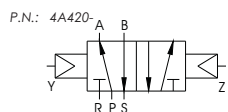
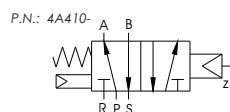


Double Air Pilot Valve



Ordering Code

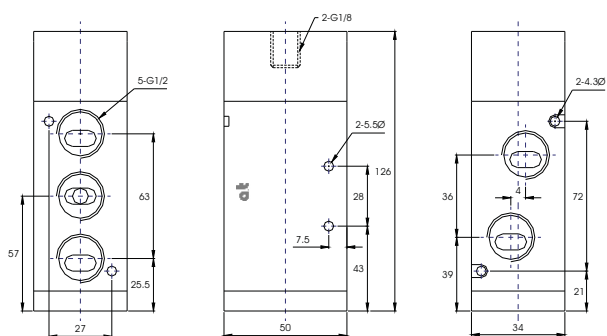
4A4	-	10 - 15
4A4	-	400 series, Directional Air Pilot Valve
10	-	5/2 way Single Air Pilot
20	-	5/2 way Double Air Pilot
30C	-	5/3 way Double Air Pilot Close Center
30E	-	5/3 way Double Air Pilot Exhaust Center
30P	-	5/3 way Double Air Pilot Open Center
15	-	G 1/2"



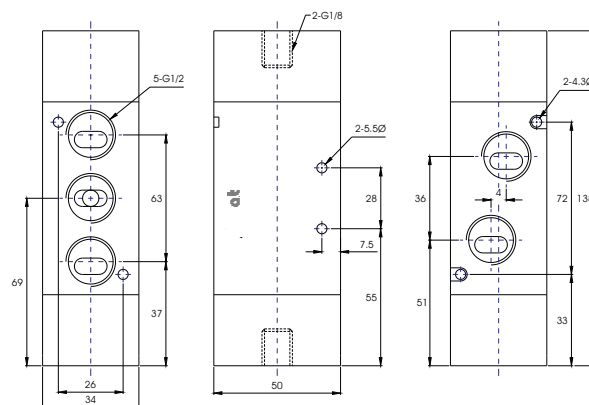
Air Pilot Valve Specification

Part Number	4A410-15	4A420-15	4A430C-15	4A430E-15	4A430P-15
Orifice Size	50mm ² (CV=2.79)		30mm ² (CV=1.68)		
Port Connection	Supply, Outlet, Exhaust G 1/2"				
Working Medium	40 Micron Filtered Air				
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kgf/cm ² , 22 ~ 117.6 PSI				
Maximum Test Pressure	1 MPa, 10 Kgf/cm ² , 150 PSI				
Working Temperature	5 ~ 60°C, 41 ~ 140°F				

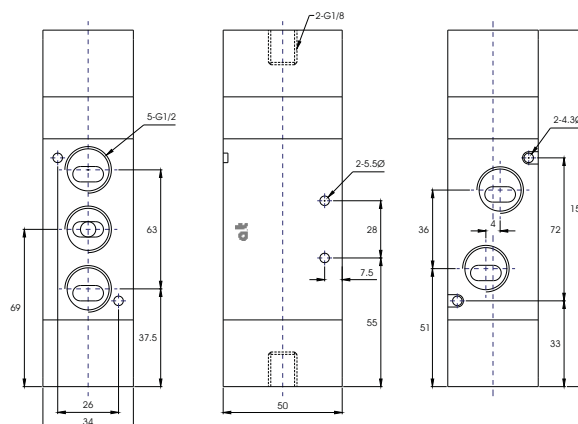
4A410 -15 5/2 way Single Air Pilot Valve



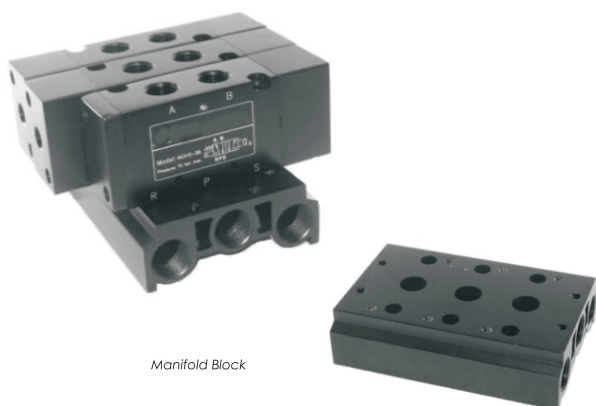
4A420 -15 5/2 way Double Air Pilot Valve



4A430 -15 5/3 way Double Air Pilot Valve

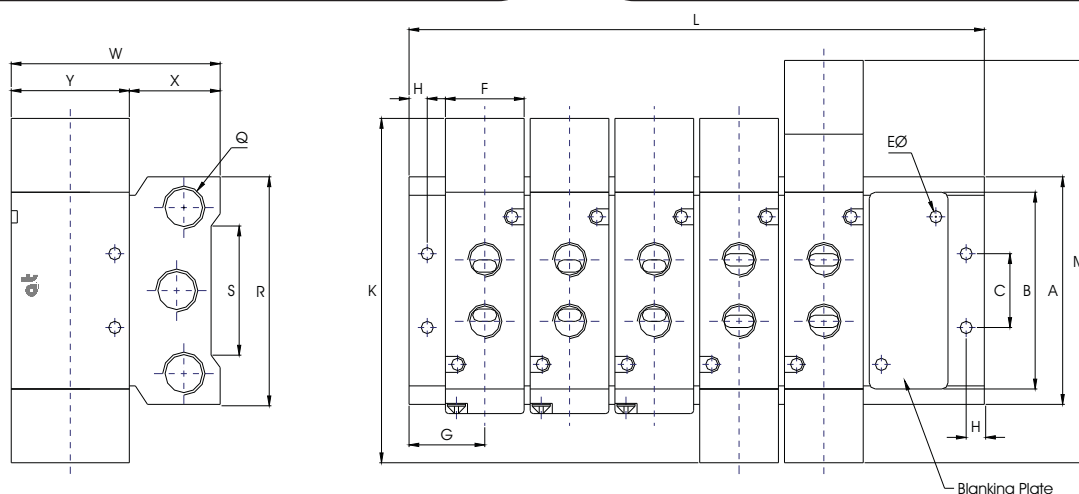


Manifold for Air Pilot Valve



Ordering Code

- 100M** - **N** - **F**
- 100M** - 100 series valve
 - 200M** - 200 series valve
 - 300M** - 300 series valve
 - 400M** - 400 series valve
- N** - Specify the required valves quantity when ordering
- Manifold is available from minimum of 2 stations to maximum of 12 stations



Note: n = number of valve or station

Manifold Dimension

Manifold Series	A	B	C	E	F	G	H	K	L	M	Q	R	S	W	X	Y
100M - F	58	44	20	4.2	18.3	19	5	69	$\{(n-1) \times 19\} + 38$	96	G1/4	40	30	78.5	25	27
200M - F	61	51	21	4.3	22.4	23	6	78	$\{(n-1) \times 23\} + 46$	111	G1/4	43	32	92.5	26	35
300M - F	75	65	26	4.5	27.3	27	6	96	$\{(n-1) \times 28\} + 54$	130	G3/8	53	48	99	30	40
400M - F	10	95	32	5.5	34.3	31.5	7	128	$\{(n-1) \times 35\} + 63$	163	G1/2	68	67	112	38	50

100 Series Directional Air Pilot Valve

Single Air Pilot Valve



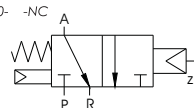
Double Air Pilot Valve



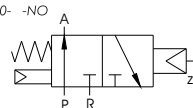
Ordering Code

3A1	-	10	-	M5	-	NO
3A1	-	100 series, Directional Air Pilot Valve				
10	-	3/2 way Single Air Pilot				
20	-	3/2 way Double Air Pilot				
M5	-	M5 X 0.8				
06	-	G 1/8"				
Blank	-	Normally Closed		NO	-	Normally Open

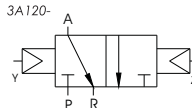
P.N.: 3A110- -NC



P.N.: 3A110- -NO



P.N.: 3A120-

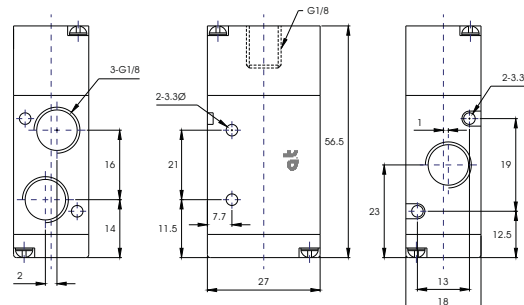
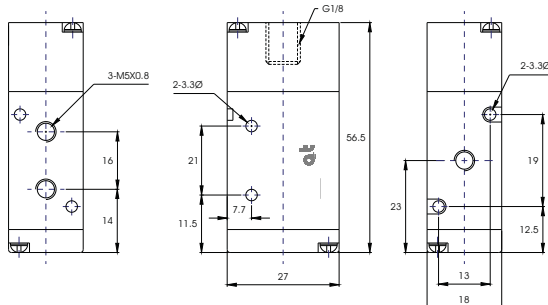


Air Pilot Valve Specification

Air Pilot Valve Specification				
Part Number	3A110-M5	3A120-M5	3A110-06	3A120-06
Orifice Size	10mm ² (CV=0.56)		12mm ² (CV=0.67)	
Port Connection	Supply, Outlet, Exhaust M5 X 0.8		Supply, Outlet, Exhaust G 1/8"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI			
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			

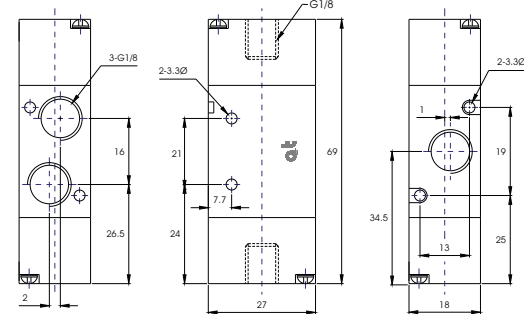
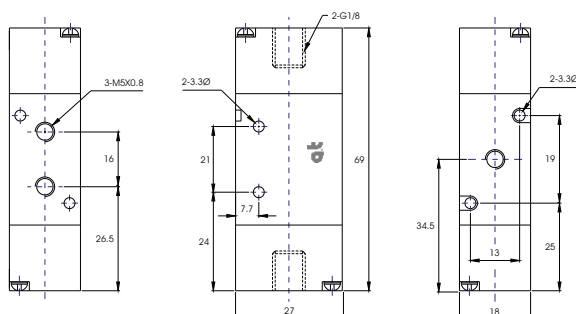
3A110-M5-NO/NC 3/2 way Single Air Pilot Valve

3A110-06-NO/NC 3/2 way Single Air Pilot Valve



3A120-M5 3/2 way Double Air Pilot Valve

3A120-06 3/2 way Double Air Pilot Valve



200 Series Directional Air Pilot Valve

Single Air Pilot Valve



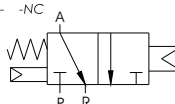
Double Air Pilot Valve



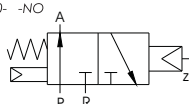
Ordering Code

3A2	-	10	-	06	-	NO
3A2	-	200 series, Directional Air Pilot valve				
10	-	3/2 way Single Air Pilot				
20	-	3/2 way Double Air Pilot				
06	-	G 1/8"				
08	-	G 1/4"				
Blank	-	Normally Closed	NO	-	Normally Open	

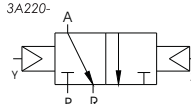
P.N.: 3A210- -NC



P.N.: 3A210- -NO



P.N.: 3A220-

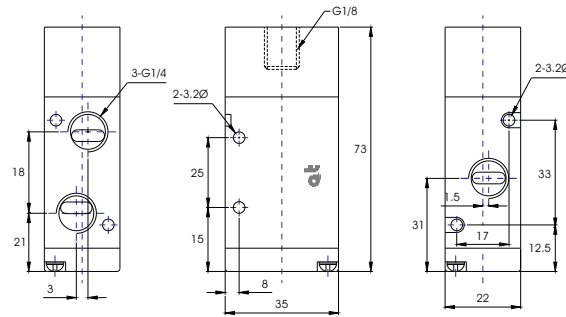
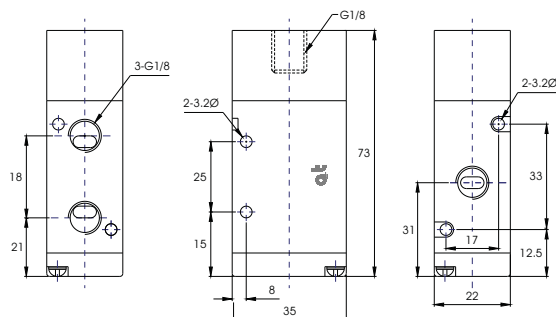


Air Pilot Valve Specification

Air Pilot Valve Specification				
Part Number	3A210-06	3A220-06	3A210-08	3A220-08
Orifice Size	14mm ² (CV=0.78)		16mm ² (CV=0.89)	
Port Connection	Supply, Outlet, Exhaust G 1/8"		Supply & Outlet G 1/4", Exhaust G 1/8"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI			
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			

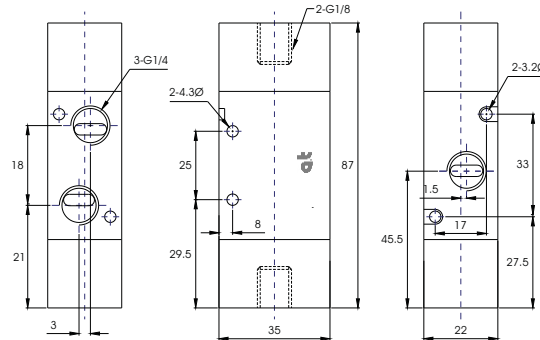
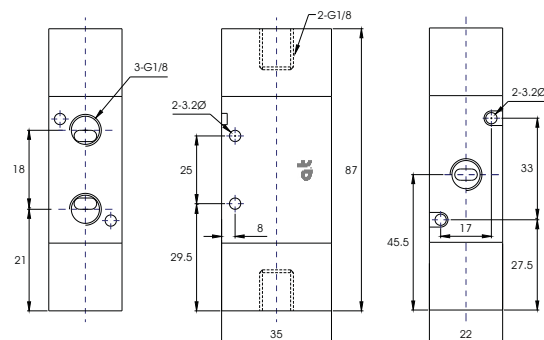
3A210-06-NO/NC 3/2 way Single Air Pilot Valve

3A210-08-NO/NC 3/2 way Single Air Pilot Valve



3A220-06 3/2 way Double Air Pilot Valve

3A220-08 3/2 way Double Air Pilot Valve



300 Series Directional Air Pilot Valve

Single Air Pilot Valve



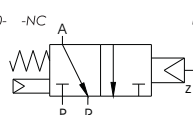
Double Air Pilot Valve



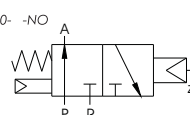
Ordering Code

3A3	-	10 - 08 - NO
3A3	-	300 series, Directional Air Pilot Valve
10	-	3/2 way Single Air Pilot
20	-	3/2 way Double Air Pilot
08	-	G 1/4"
10	-	G 3/8"
Blank	-	Normally Closed
NO	-	Normally Open

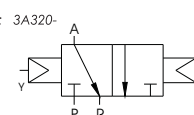
P.N.: 3A310- -NC



P.N.: 3A310- -NO



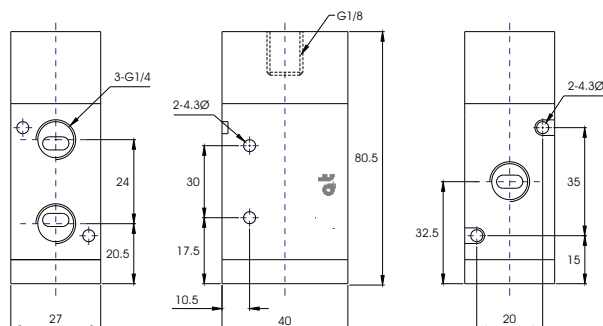
P.N.: 3A320-



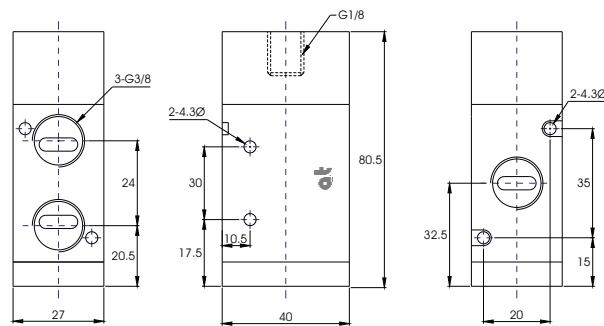
Air Pilot Valve Specification

Air Pilot Valve Specification				
Part Number	3A310-08	3A320-08	3A310-10	3A320-10
Orifice Size	25mm ² (CV=1.40)		30mm ² (CV=1.68)	
Port Connection	Supply, Outlet, Exhaust G 1/8"		Supply & Outlet G 1/4", Exhaust G 1/8"	
Working Medium	40 Micron Filtered Air			
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI			
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			

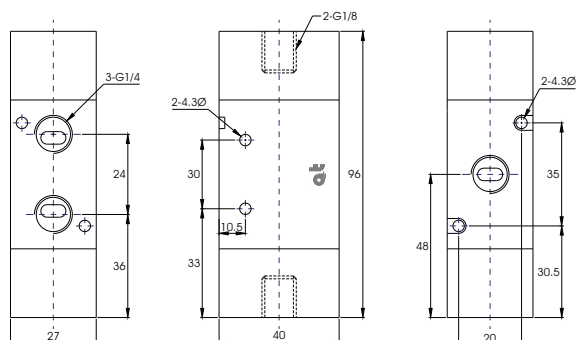
3A310-08-NO/NC 3/2 way Single Air Pilot Valve



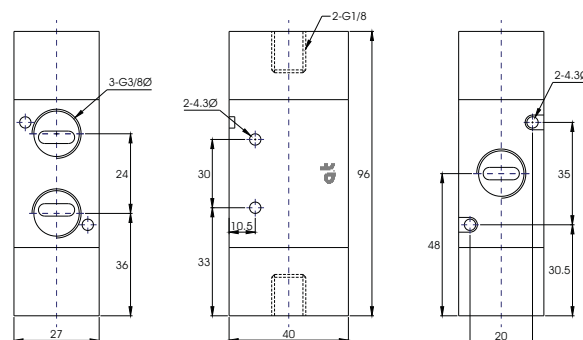
3A310-10-NO/NC 3/2 way Single Air Pilot Valve



3A320-08 3/2 way Single Air Pilot Valve



3A320-10 3/2 way Single Air Pilot Valve



400 Series Directional Air Pilot Valve

Single Air Pilot Valve



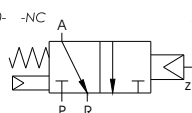
Double Air Pilot Valve



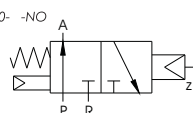
Ordering Code

3A4	-	10	-	15	-	NO
3A4	-	400 series, Directional Air Pilot Valve				
10	-	3/2 way Single Air Pilot				
20	-	3/2 way Double Air Pilot				
15	-	G 1/2"				
Blank	-	Normally Closed				
NO	-	Normally Open				

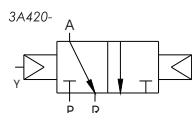
P.N.: 3A410- -NC



P.N.: 3A410- -NO



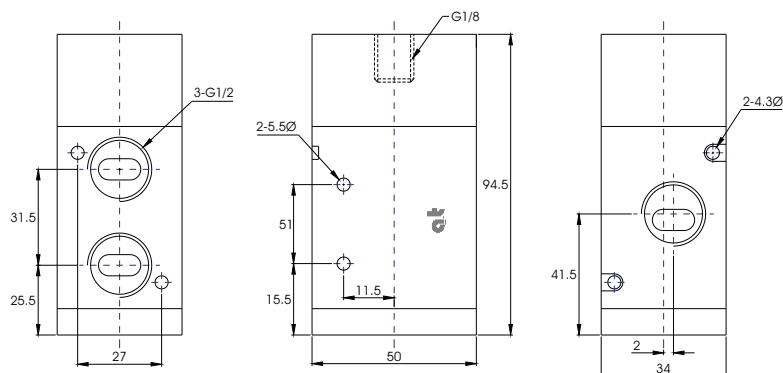
P.N.: 3A420-



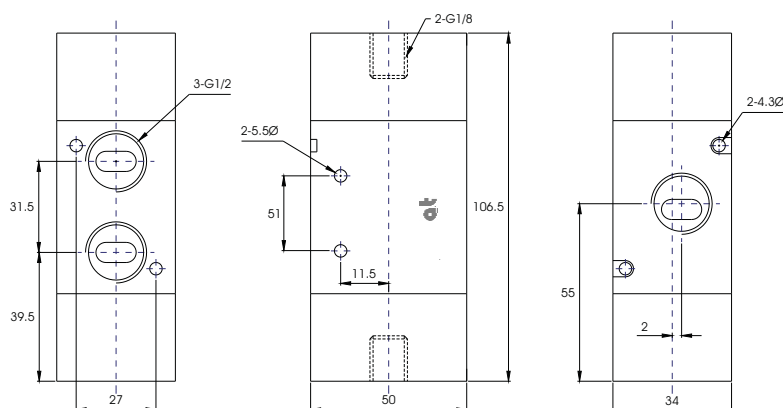
Air Pilot Valve Specification

Part Number	3A410-15	3A420-15
Orifice Size	50mm ² (CV=2.79)	
Port Connection	Supply, Outlet, Exhaust G 1/2"	
Working Medium	40 Micron Filtered Air	
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI	
Maximum Test Pressure	1 MPa, 10 Kg/cm ² , 150 PSI	
Working Temperature	5 ~ 60°C, 41 ~ 140°F	

3A410-15-NO/NC 3/2 way Single Air Pilot Valve



3A420-15 3/2 way Double Air Pilot Valve



Mechanical Hand Lever Valve

Hand Lever Valve

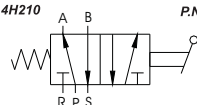


Ordering Code

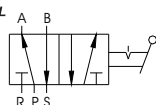
4H - 2 - 10 - 06 - L

4H	-	Hand Lever Valve
2	-	200 series
3	-	300 series
4	-	400 series
10	-	5/2 way Hand Lever Valve
30C	-	5/3 way Hand Lever Valve Center Close
30P	-	5/3 way Hand Lever Valve Exhaust Center
30E	-	5/3 way Hand lever Valve Open Center
06	-	G1/8
10	-	G3/8
08	-	G1/4
15	-	G1/2
Blank	-	Spring Return
L	-	With Lock

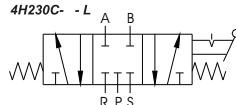
P.N.: 4H210



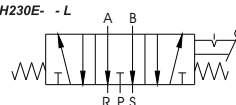
P.N.: 4H210- -L



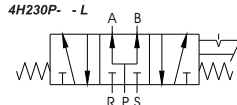
P.N.: 4H230C- -L



P.N.: 4H230E- -L



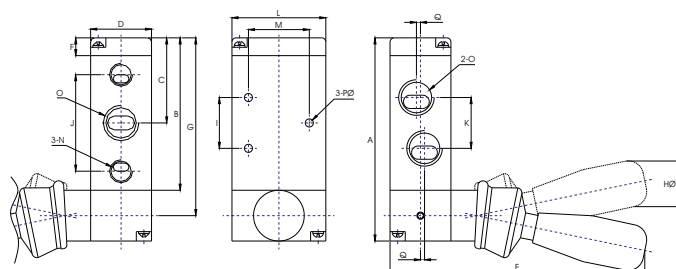
P.N.: 4H230P- -L



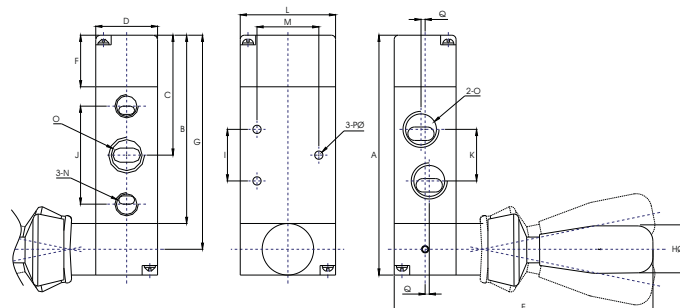
Hand Lever Valve Dimension

Part Number	4H210-06	4H210-08	4H230-06	4H230-08	4H310-08	4H310-10	4H330-08	4H330-10	4H410-15	4H430-15
	4H210-06-L	4H210-08-L	4H230-06-L	4H230-08-L	4H310-08-L	4H310-10-L	4H330-08-L	4H330-10-L		
Working Medium	40Micron Filtered Air									
Flow Rate	CV = 0.78	CV = 0.89	CV = 0.67		CV = 1.4	CV = 1.68	CV = 1.00		CV = 2.79	CV = 1.68
Effective Section Area	14mm ²	16mm ²	12mm ²		25mm ²	30mm ²	18mm ²		50mm ²	30mm ²
Connection	Supply . Output Port	G1/8	G1/4	G1/8	G1/4	G1/4	G3/8	G1/4	G3/8	G1/2
	Exhaust Port	G1/8	G1/4	G1/8	G1/4	G1/4	G3/8	G1/4	G3/8	G1/2
Working Pressure	0~1MPa 150 psi									
Working Temperature	0~60°C									

4H210 - 5/2-way hand lever valve



4H230 - 5/2-way hand lever valve

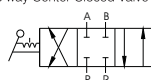


Hand Lever Valve Dimension

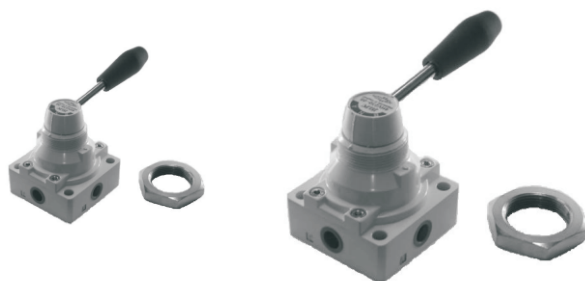
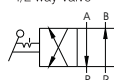
Part Number	4H210-06	4H210-08	4H230-06	4H230-08	4H310-08	4H310-10	4H330-08	4H330-10	4H410-15	4H430-15
	4H210-06-L	4H210-08-L	4H230-06-L	4H230-08-L	4H310-08-L	4H310-10-L	4H330-08-L	4H330-10-L	4H410-15-L	4H430-15-L
A	76		95		96		115		126	147
B	56.6		75.5		72		91		102	123
C	31.5		31.5		40		60		55.5	76.5
D	22		22		27		27		34	34
E	95		95		100		100		110	110
F	6.5		19		7.5		19		8.5	21
G	66.5		85.5		84		103		114	135
H	18		18		18		18		18	18
I	20		20		24		24		28	28
J	36		36		45		45		63	63
K	21		21		24		24		36	36
L	35		35		40		40		50	50
M	21		21		27		27		35	35
N	G1/8		G1/8		G1/4	G3/8	G1/4	G3/8	G1/2	G1/2
O	G1/8	G1/4	G1/8	G1/4	G1/4	G3/8	G1/4	G3/8	G1/2	G1/2
P	4.3		4.3		4.3		4.3		5.5	5.5
Q	1.5(-)		1.5(-)		2(-)		2(-)		-	-

Rotary Hand Lever Valve Panel Mounted

4/3 way Center Closed Valve



4/2 way Valve



Ordering Code

4HV - 2 - 10 - 06 - N

4H - Rotary Hand Lever Valve

2 - 200 series

3 - 300 series

4 - 400 series

10 - 4/2 way Rotary Hand Lever Valve

30C - 4/3 way Rotary Hand Lever Valve Center Close

06 - G1/8

10 - G3/8

08 - G1/4

15 - G1/2

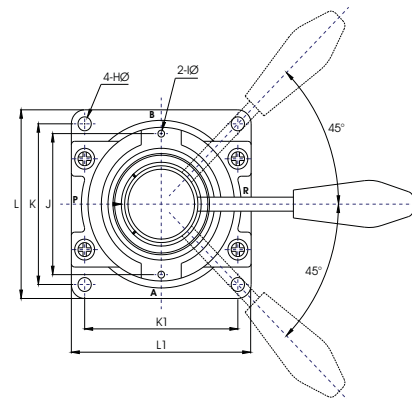
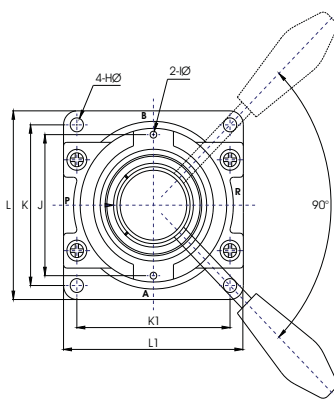
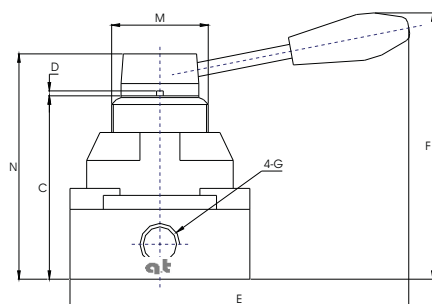
Blank - w/o Mounting Nut

N - w/ Mounting Nut

Hand Lever Valve Specification

Part Number	4HV210-06		4HV310-08		4HV310-15	4HV410-15	4HV230C-06		4HV330C-08		4HV330C-15	4HV430C-15
	4HV210-08		4HV310-10				4HV230C-08		4HV330C-10			
Working Medium	40 Micron Filtered Air											
Working Pressure	0.15 ~ 0.8 MPa, 1.5 ~ 8 Kg/cm ² , 22 ~ 117.6 PSI											
Working Temperature	5 ~ 60°C, 41 ~ 140°F											
Connection	G1/8	G1/4	G1/4	G3/8	G1/2	G1/2	G1/8	G1/4	G1/4	G3/8	G1/2	G1/2

HV210/310 - 4-way Hand Lever valve

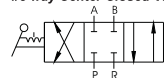


Hand Lever Valve Dimension

Part Number	4HV210-06		4HV310-08		4HV310-15	4HV410-15	4HV230C-06		4HV330C-08		4HV330C-15	4HV430C-15
	4HV210-08		4HV310-10				4HV230C-08		4HV330C-10			
M	M34X1.5		M40X1.5		M40X1.5	M52X1.5	M34X1.5		M40X1.5		M40X1.5	M52X1.5
N	73		93.5		93.5	110.3	73		93.5		93.5	110.3
C	45		56		56	72	45		56		56	72
D	1.5		1.5		1.5	2	1.5		1.5		1.5	2
G	G1/8	G1/4	G1/4	G3/8	G1/2	G1/2	G1/8	G1/4	G1/4	G3/8	G1/2	G1/2
F	92.5		109		109	128	92.5		109		109	128
L	62		74		74	102	62		74		74	102
L1	62		74		74	94	62		74		74	94
K	49		62		62	89	49		62		62	89
K1	49		62		62	81	49		62		62	81
J	40		51		51	64	40		51		51	64
H	5.3		6.6		6.6	6.6	5.3		6.6		6.6	6.6
I	3		3		3	3	3		3		3	3
E	120		140		140	113	120		140		140	113

Rotary Hand Lever Valve

4/3 way Center Closed Valve



4/3 way Hand Lever Valve

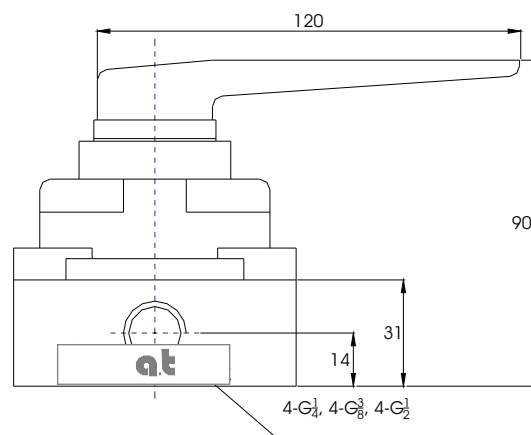
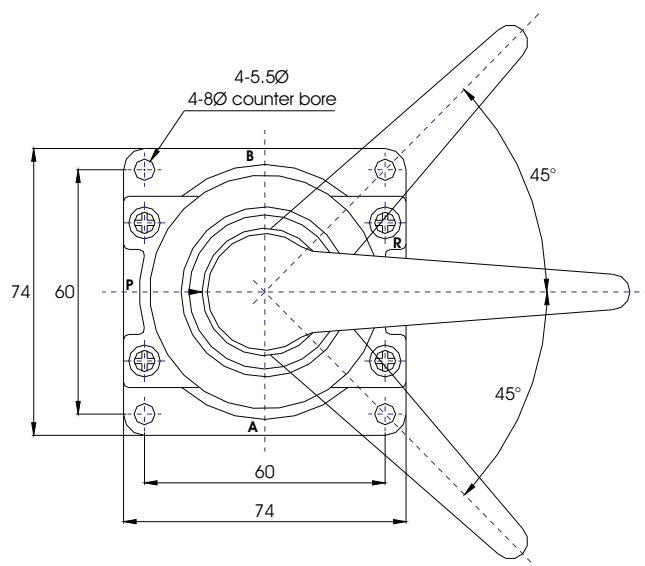
Ordering Code

HV	-	400	-	02
HV	-	Rotary Hand Lever Valve		
4	-	4/3 way Hand Lever Valve close Center		
02	-	G1/4		
03	-	G3/8		
04	-	G1/2		

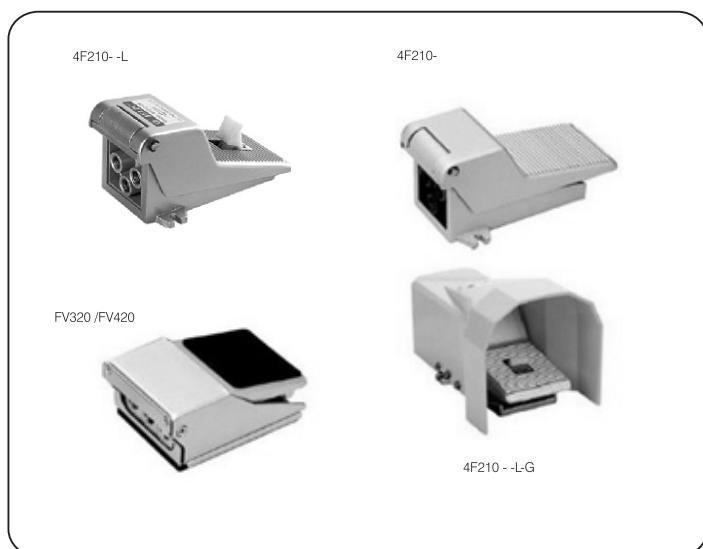
Hand Lever Valve Specification

Part Number	HV400-02	HV400-03	HV400-04
Working Medium	40 micron Filtered Air		
Mounting	Any position		
Type	4/3 way center closed		
Orifice Size	30 mm ² ; CV = 1.68		
Connection	G 1/4"	G 3/8"	G 1/2"
Working Pressure	0 ~ 1.0 Mpa, 150 psi		
Operating Temperature	0 ~ 60°C		
Voltage Range	±10%		
Body Material	Aluminum		
Seal Material	NBR		

HV400 - 4/3 way Hand Lever valve



3/2 & 4/2 way Mechanical Foot Valve



Ordering Code

4F210 - 08 - L - G

4F210 - 4-way Foot Valve

08 - G1/4

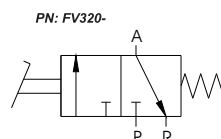
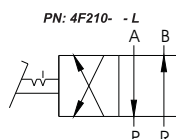
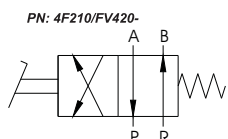
Blank - Without Lock **L** - With Lock

Blank - With Guard **G** - With Guard

FV - **320**

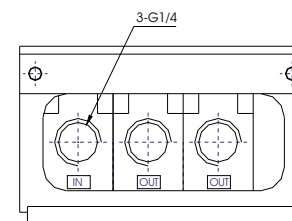
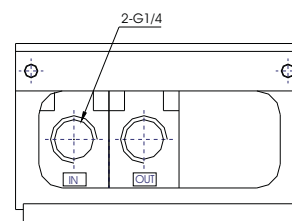
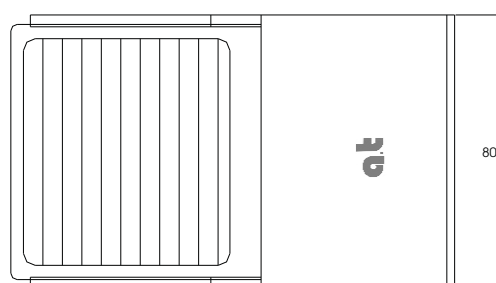
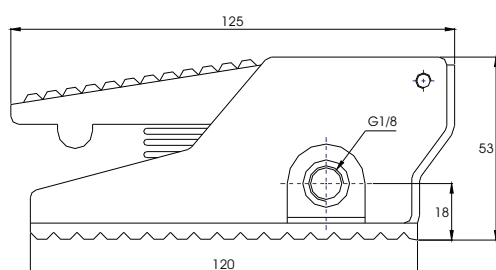
FV - Compact Foot Valve

320 - 3-way Foot Valve **420** - 4-way Foot Valve



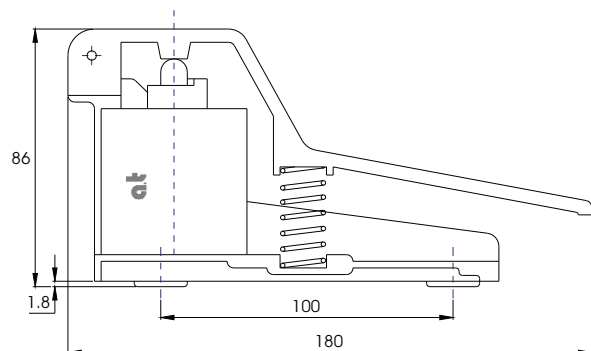
Foot Valve Specification						
Part Number	4F210-08	4F210-08L	4F210-08G	4F210-08LG	FV420	FV320
Working Medium	40 Micron Filtered Air					
Type	4/2 way				4/2 way	3/2 way
Port Connection	Air Supply, Output Port = G1/4" Exhaust = Built-in Silencer				Air Supply, Output Port = G1/4" Exhaust Port = G1/8"	
Motion Pattern	Direct Drive Type					
Working Pressure	0~1.0 Mpa, 150 psi					
Working Temperature	0~60℃					

Fv320 / FV420 - 4/3 way Hand Lever valve

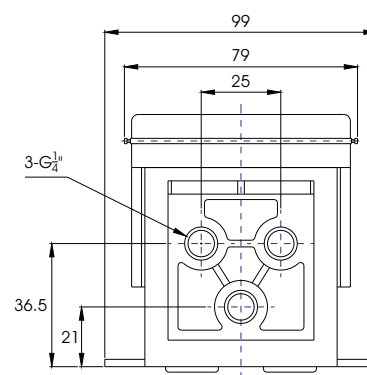
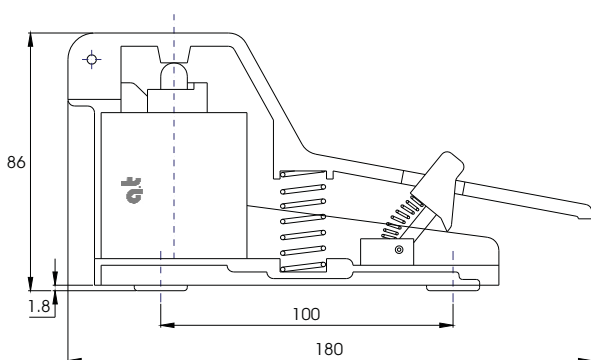


Mechanical Foot Valve

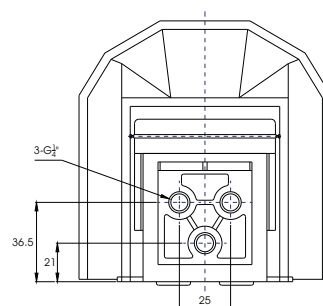
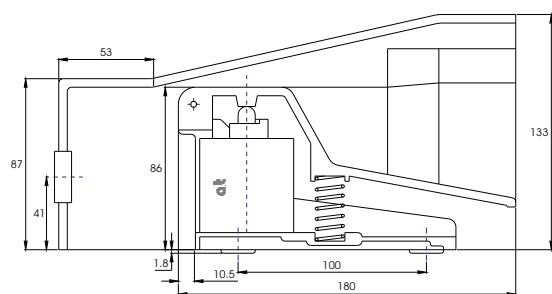
FV210 - 5/2 way Foot Valve



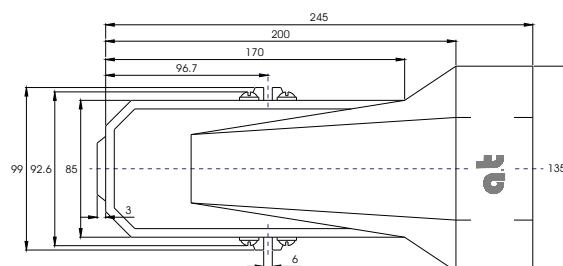
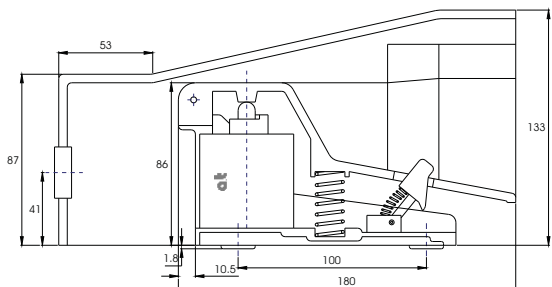
FV210 - -L 5/2 way Foot Valve



Fv210 - -G 5/2 way Foot Valve



Fv210 - -LG 5/2 way Foot Valve



Mechanical Valve



Selector Switch (Long)



Mushroom Head



Selector Switch (Short)



Push Button



Emergency Stop
(with or Without Lock)



Plunger

Ordering Code

MSV - 86 - 32 - 2 - R

MSV - Mechanical Valve

86 - 86 Series

32 - 3/2-way Valve

52 - 5/2-way Valve

1 - G 1/8"

2 - G 1/4"

R - Roller Valve

LB - Selector Knob (long)

PP - Flat Push Button

EB - Emergency Push Button w/ Lock

TB - Selector Knob (short)

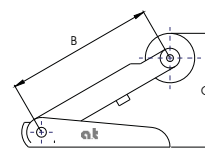
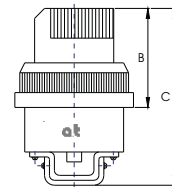
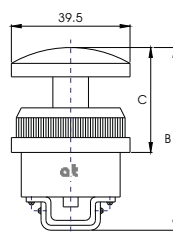
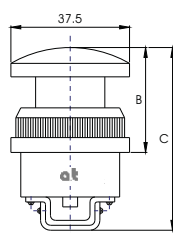
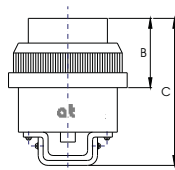
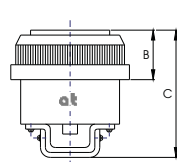
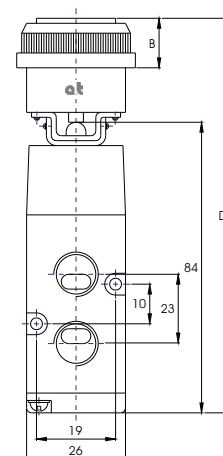
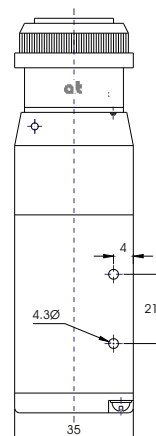
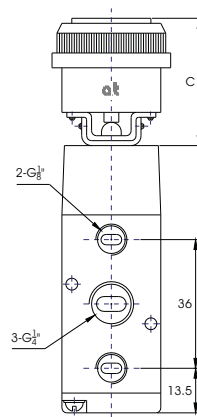
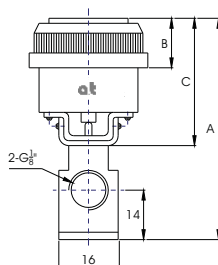
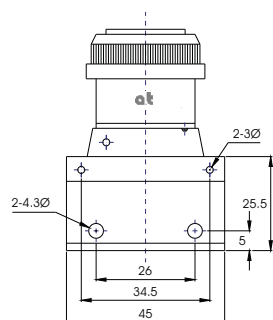
PB - Mushroom Head

PPL - Raised Push Button

Mechanical Valve Specification & Dimension

Model	MSV86321	MSV86521		PP	PPL	LB	TB	EB	PB	R
Port Connection	G 1/8"	G 1/8" / G 1/4"								
Working Medium	Air	Air	A	66.5	71.5	85.5	89.5	86.5	83.5	59.5
Working Pressure	1 MPa, 150 PSI	1 MPa, 150 PSI	B	17	22	33	34	37	34	42
Working Temperature	5 ~ 60°C, 41 ~ 140°F	5 ~ 60°C, 41 ~ 140°F	C	41	46	60	64	61	58	34.5
Orifice Size	12mm ² (CV = 0.67)	16mm ² (CV = 0.89)	D	125	130	144	148	145	142	118.5

MSV-86321- 3/2 Mechanical Valve



Flow Control and Quick Exhaust Valve



Ordering Code

ASC - 08

ASC - In-Line Flow Control Valve

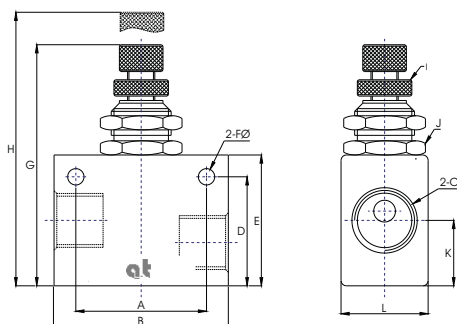
06 - G 1/8" **08** - G 1/4"
10 - G 3/8" **15** - G 1/2"

QEA - 08

QEA - Quick Exhaust Valve

06 - G 1/8" **08** - G 1/4"
10 - G 3/8" **15** - G 1/2"

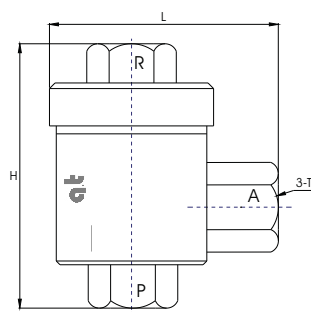
ASC - Flow Control Valve



Flow Control Specification				
Model	ASC-06	ASC-08	ASC-10	ASC-15
Port Connection	G 1/8"	G 1/4"	G 3/8"	G 1/2"
Working Medium	Air			
Working Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			

Flow Control Valve Dimension												
Part Number	A	B	C	D	E	F	G	H	I	J	A	L
ASC-06	22	32	G1/8	22	27	4.3	49.7	56.5	M6 X 0.5	M12 X 0.75	12	18
ASC-08	26	36	G1/4	22	27	4.3	49.7	56.5	M6 X 0.5	M12 X 0.75	12	18
ASC-10	28	40	G3/8	25	30	4.3	52.7	59.5	M6 X 0.5	M12 X 0.75	13	22
ASC-15	28	40	G1/2	30	35	4.3	58.7	65.5	M6 X 0.5	M12 X 0.75	13.5	26

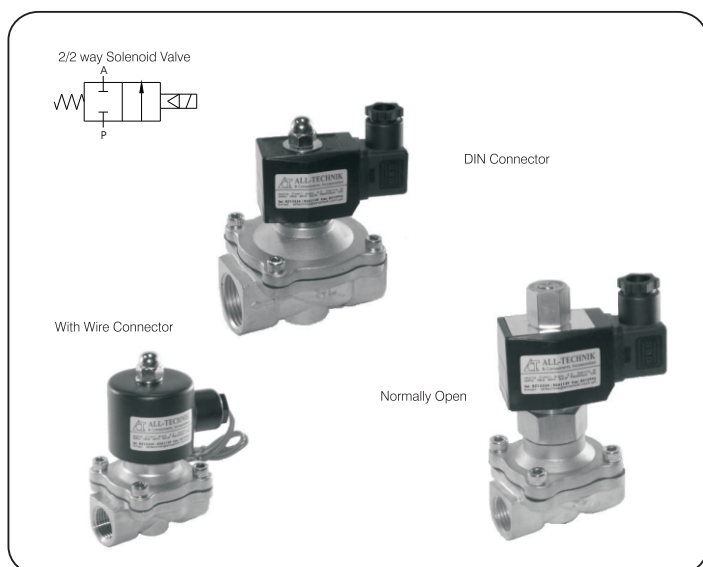
QEA - Quick Exhaust Valve



Flow Control Specification				
Part Number	QEA-06	QEA-08	QEA-10	QEA-15
Port Connection	G 1/8"	G 1/4"	G 3/8"	G 1/2"
Flow Rate	0.9 m ³ / min	0.9 m ³ / min	2.5 m ³ / min	4.5 m ³ / min
Working Medium	Air			
Working Pressure	1 MPa, 10 Kg/cm ² , 150 PSI			
Working Temperature	5 ~ 60°C, 41 ~ 140°F			

Flow Control Dimension				
Part Number	QEA-06	QEA-08	QEA-10	QEA-15
T	G 1/8"	G 1/4"	G 3/8"	G 1/2"
H	51	51	68	77
L	45	45	62	86

2/2 way Solenoid Valve for Water Oil Gas



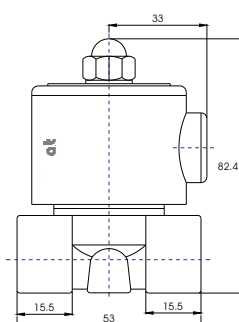
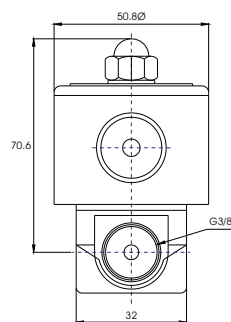
Ordering Code

2W	-	160 - 15 - V - AC110V - D - NO
2W	-	2/2 way Solenoid Valve Brass Body
2S	-	2/2 way Solenoid Valve Stainless Steel 304 body
160	-	16 mm orifice
200	-	20 mm orifice
250	-	25 mm orifice
350	-	35 mm orifice
400	-	40 mm orifice
500	-	50 mm orifice
10	-	3/8"
15	-	1/2"
20	-	3/4"
25	-	1"
35	-	1 1/4"
40	-	1 1/2"
50	-	2"
Blank	-	NBR
V	-	Viton
DC12V	-	12Vdc
DC24V	-	24Vdc
DC110V	-	110Vdc
AC24V	-	24Vac / 60Hz
AC110V	-	110Vac / 60Hz
AC220V	-	220Vac / 60Hz
Blank	-	with Wire
D	-	DIN
Blank	-	N. Close
NO	-	N. Open

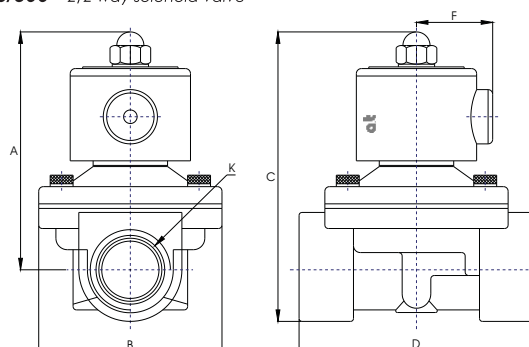
WOG Solenoid Valve Specification

Part Number	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
	2S160-10	2S160-15	2S200-20	2S250-25	2S350-35	2S400-40	2S500-50
Working Medium	Air, Water, Oil						
Type	Normally Closed						
Flow Rate	16		20	25	35	40	50
CV Value	4.5		7.6	12	24	29	48
Connection	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Fluid Viscosity	20 CST						
Working Pressure	Air: 0~0.7; Water: 0~0.5; Oil: 0~0.5						
Working Pressure	1Mpa 150 psi						
Operating Temperature	5 ~ 80°C						
Voltage Tolerance	±10%						
Body Material	2W: Brass 2S: Stainless Steel						
Seal Material	NBR / VITON						

2W/2S 040-10 2/2 way solenoid valve



2W/2S 160/500 - 2/2 way solenoid valve

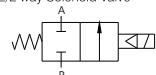


WOG Solenoid Valve Dimension

Part Number	A	B	C	D	E	F	K
2W / 2S-160-10	101.5	57	117	69	50	36	G3/8
2W / 2S-160-15	101.5	57	117	69	50	36	G1/2
2W / 2S-200-20	107	57	123.5	73	50	36	G3/4
2W / 2S-250-25	111.5	73.5	134.5	99	50	36	G1/2
2W / 2S-350-35	142	95	172	123	70.5	56	G1-1/4
2W / 2S-400-40	142	95	172	123	70.5	56	G1-1/2
2W / 2S-500-50	172	123	209	168	70.5	56	G2

2/2 way Steam Solenoid Valve

2/2 way Solenoid Valve



Steam Solenoid Valve

Ordering Code

2L - 170 - 15 - AC110V

2L - 2/2 way Steam Solenoid Valve Brass Body

170 - 17 mm orifice
200 - 20 mm orifice
300 - 30 mm orifice
400 - 40 mm orifice
500 - 50 mm orifice

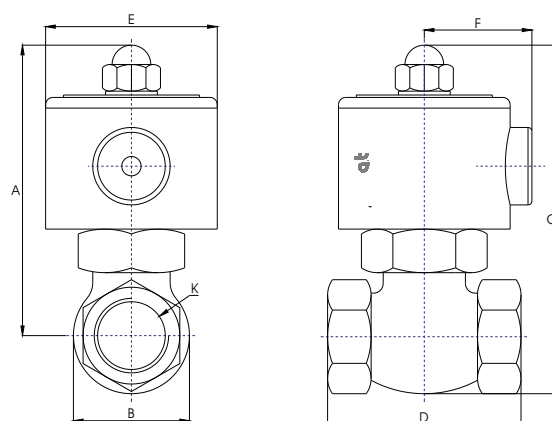
10 - 3/8" **35** - 1 1/4"
15 - 1/2" **40** - 1 1/2"
20 - 3/4" **50** - 2"
25 - 1"

DC12V - 12Vdc **AC24V** - 24Vac / 60Hz
DC24V - 24Vdc **AC110V** - 110Vac / 60Hz
DC110V - 110Vdc **AC220V** - 220Vac / 60Hz

Steam solenoid Valve Specification

Model	2L170-10	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
Working Medium	Air, Water, Steam						
Mounting	Horizontal						
Type	Normally Closed						
Flow Rate	17			22	30		50
CV Value	4.8			12	20		48
Connection	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Working Pressure	Air, Water, Steam: 0.1~1.0						
Working Temperature	5 ~ 180°C						
Voltage Range	±10%						
Body Material	Brass						
Seal Material	PTFE						

2L170/500 - 2/2 way steam solenoid valve

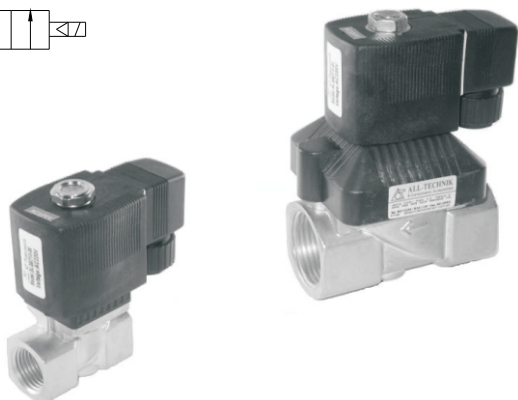
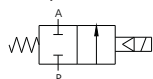


Steam Solenoid Valve Dimension

Part Number	A	B	C	D	K
2L170-10	125	42	146	82	G3/8
2L170-15	125	42	146	82	G1/2
2L170-20	125	42	146	82	G3/4
2L200-25	136	52	162	90.5	G1/2
2L300-35	148	74	185	111	G1 1/4
2L400-40	148	74	185	111	G1 1/2
2L500-50	176	86	223	163	G2

2/2 way WOG Solenoid Valve

2/2 way Solenoid Valve



Ordering Code

SLGC - 6132 - 02 - AC110V

SLGC - 2/2 way WOG Solenoid Valve Brass Body

6232 - Body Size 1

6332 - Body Size 2

6432 - Body Size 3

02 - 1/4"

03 - 3/8"

04 - 1/2"

06 - 3/4"

08 - 1"

DC12V - 12Vdc

DC24V - 24Vdc

DC110V - 110Vdc

AC24V - 24Vac / 60Hz

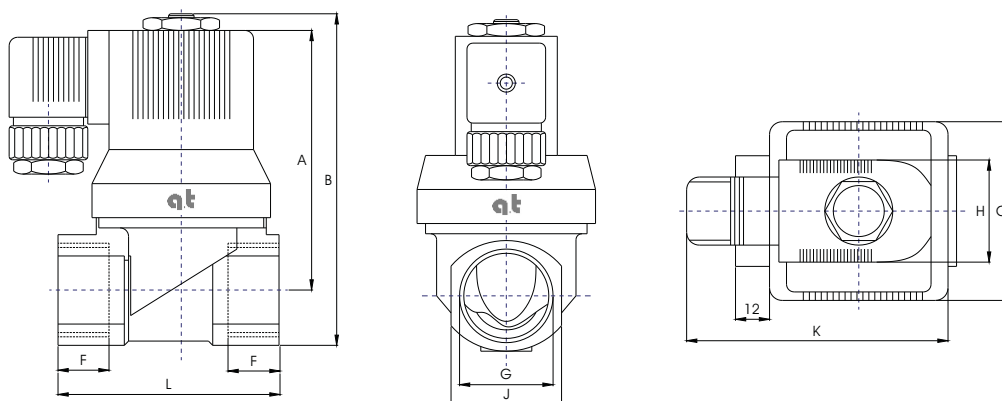
AC110V - 110Vac / 60Hz

AC220V - 220Vac / 60Hz

WOG Solenoid Valve Specification

WOG Solenoid Valve Specification					
Part Number	SLGC6213-02	SLGC6213-03	SLGC6313-04	SLGC6313-06	SLGC6413-08
Working Medium	Water, Oil, Gas				
Mounting	Any position				
Type	Normally Closed				
Flow Rate M³/h	2		8		11
Power Consumption	AC = 14VA DC = 8VA				
Connection	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Working Pressure	:0.1~1.0 Mpa, 150 psi				
Operating Temperature	5 ~ 80°C				
Voltage Range	±10%				
Body Material	Brass				
Seal Material	NBR, Viton				

SLGC6213 - 2/2 way WOG solenoid valve



WOG Solenoid Valve Dimension

Part Number	G	C	F	L	J	A	B	H	K
SLGC6213-02	G 1/4"	38	14	50	26	71	85	35	71
SLGC6213-03	G 3/8"	38	14	50	26	71	85	35	71
SLGC6313-04	G 1/2"	45	16	58	31	81	96	35	80
SLGC6313-06	G 3/4"	45	16	58	31	81	96	35	80
SLGC6413-08	G 1"	65	18	82	41	96	117	35	90

Air Filter & Regulator & Lubricator

AC1000



AC2000



Air Filter Regulator Lubricator Specification						
Part Number	AC1000-M5	AC2000-01	AC2000-02	AC1000-M5D	AC2000-01D	AC2000-02D
	Manual Drain			Automatic Drain		
Port Size	M5	1/8"	1/4"	M5	1/8"	1/4"
Pressure Gauge Connection	1/16"	1/8"	1/8"	1/16"	1/8"	1/8"
Flow Rate (l/min)	90	500	500	90	500	500
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Recommended Lubricant	SAE10					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Not Available					

AC3000



Air Filter Regulator & Lubricator Specification				
Part Number	AC3000-02	AC-3000-03	AC3000-02D	AC3000-03D
	Manual Drain		Automatic Drain	
Port Size	1/4"	3/8"	1/4"	3/8"
Pressure Gauge Connection	1/8"	1/8"	1/8"	1/8"
Flow Rate (l/min)	2000	2000	2000	2000
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Recommended Lubricant	SAE10			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			

AC4000

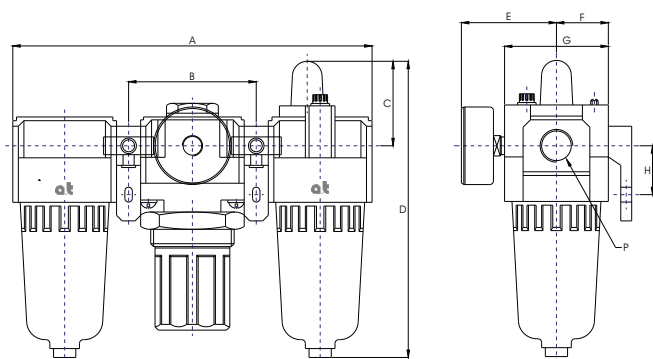


Air Filter Regulator Lubricator Specification						
Part Number	AC4000-03	AC4000-04	AC4000-06	AC4000-03D	AC4000-04D	AC4000-06D
	Manual Drain			Automatic Drain		
Port Size	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	4000	4000	4500	4000	4000	4500
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Recommended Lubricant	SAE10					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Standard					

AC5000

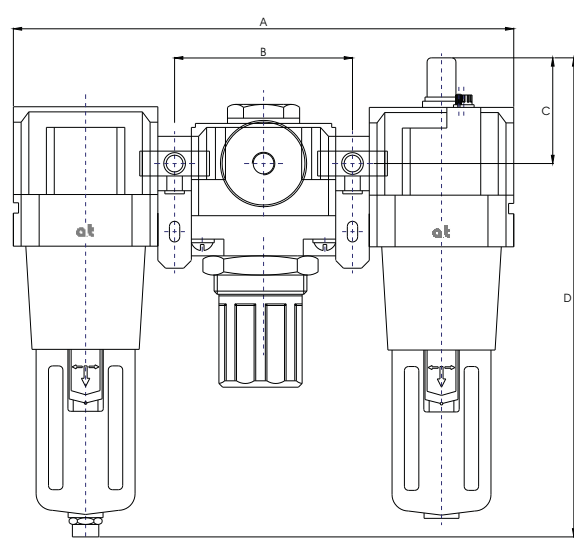
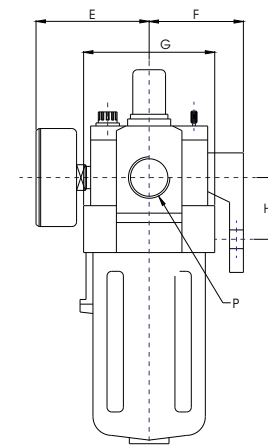
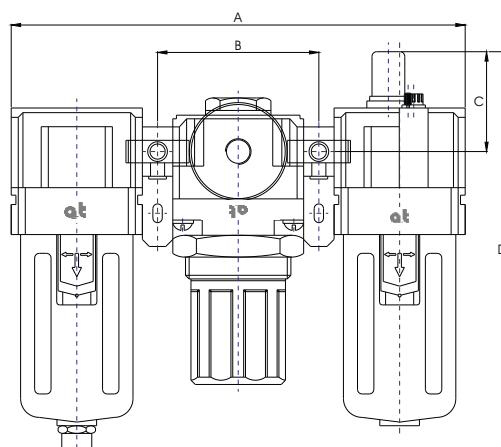


Air filter Regulator Lubricator Specification				
Part Number	AC5000-06	AC5000-10	AC5000-06D	AC5000-10D
	Manual Drain		Automatic Drain	
Port Size	3/4"	1"	3/4"	1"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	5000	5000	5000	5000
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Recommended Lubricant	SAE10			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			

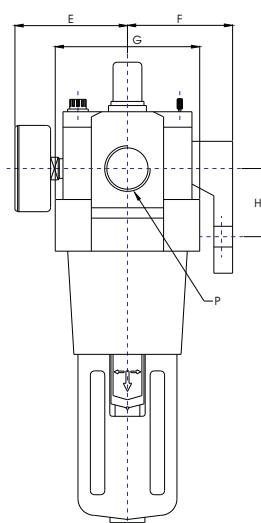


AC1000-
AC2000-

AC3000-
AC4000-



AC5000-



Air Filter Regulator Lubricator Dimensions

Model	P (Port Size)	A	B	C	D	E	F	G	H
AC1000-M5	M5	109.5	50.5	29.0	58	26.0	25	25	20
AC2000-01	1/8"	164.5	78.0	45.0	90	56.8	30	40	24
AC2000-02	1/4"	164.5	78.0	45.0	90	56.8	30	40	24
AC3000-02	1/4"	211.0	92.5	58.5	117	60.8	41	53	35
AC3000-03	3/8"	211.0	92.5	58.5	117	60.8	41	53	35
AC4000-03	3/8"	262.0	112.0	77.0	154	70.5	41	70	40
AC4000-04	1/2"	262.0	112.0	77.0	154	70.5	41	70	40
AC4000-06	3/4"	267.0	114.0	82.0	164	70.5	50	70	40
AC5000-06	3/4"	338.0	116.0	97.5	195	75.5	69.8	90	50
AC5000-10	1"	338.0	116.0	97.5	195	75.5	69.8	90	50

Air Filter Regulator & Lubricator

AC1010



AC2010



Air Filter Regulator & Lubricator Specification						
Part Number	AC1010-M5	AC2010-01	AC2010-02	AC1010-M5D	AC2010-01D	AC2010-02D
	Manual Drain			Automatic Drain		
Port Size	M5	1/8"	1/4"	M5	1/8"	1/4"
Pressure Gauge Connection	1/16"	1/8"	1/8"	1/16"	1/8"	1/8"
Flow Rate (l/min)	90	500	500	90	500	500
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Recommended Lubricant	SAE10					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Not Available					

AC3010



Air Filter Regulator & Lubricator Specification				
Part Number	AC3010-02	AC3010-03	AC3010-02D	AC3010-03D
	Manual Drain		Automatic Drain	
Port Size	1/4"	3/8"	1/4"	3/8"
Pressure Gauge Connection	1/8"	1/8"	1/8"	1/8"
Flow Rate (l/min)	1700	1700	1700	1700
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Recommended Lubricant	SAE10			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			

AC4010

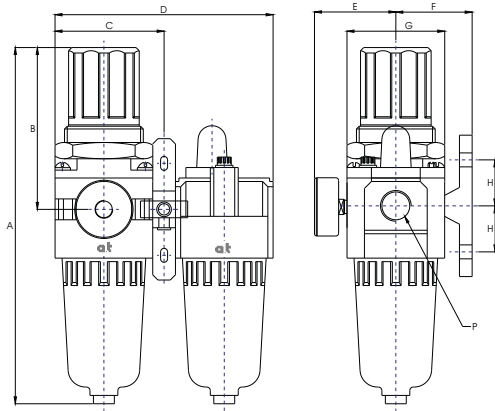


Air Filter Regulator & Lubricator Specification						
Part Number	AC4010-03	AC4010-04	AC4010-06	AC4010-03D	AC4010-04D	AC4010-06D
	Manual Drain			Automatic Drain		
Port Size	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	3000	3000	3000	3000	3000	3000
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Recommended Lubricant	SAE10					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Available					

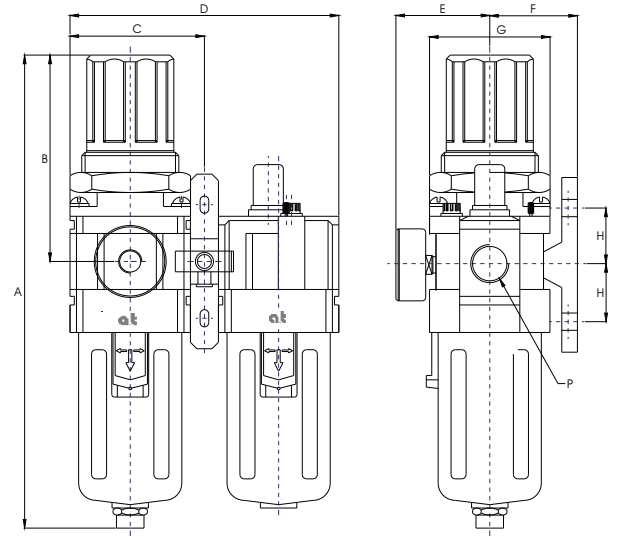
AC5010



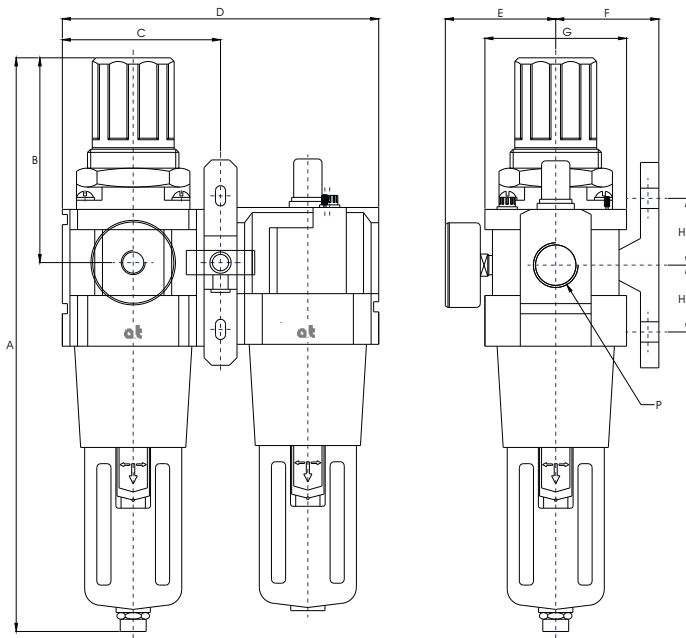
Air Filter Regulator & Lubricator Specification				
Part Number	AC5010-06	AC5010-10	AC5010-06D	AC5010-10D
	Manual Drain		Automatic Drain	
Port Size	3/4"	1"	3/4"	1"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	4000	4000	4000	4000
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Recommended Lubricant	SAE10			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			



AC1010-
AC2010-



AC3010-
AC4010-



AC5010-

Air Filter Regulator and Lubricator Dimensions

Model	P (Port Size)	A	B	C	D	E	F	G	H
AC1010-M5	M5	91	33	25.5	84.5	26.0	25	25	20
AC2010-01	1/8"	140	50	38.0	125.0	56.8	30	40	24
AC2010-02	1/4"	140	50	38.0	125.0	56.8	30	40	24
AC3010-02	1/4"	181	64	38.0	156.5	60.8	41	53	35
AC3010-03	3/8"	181	64	38.0	156.5	60.8	41	53	35
AC4010-03	3/8"	238	84	41.0	191.5	65.5	50	70	40
AC4010-04	1/2"	238	84	41.0	191.5	65.5	50	70	40
AC4010-06	3/4"	253	89	41.0	193.0	69.5	50	70	40
AC5010-06	3/4"	300	105	48.0	271.5	75.5	69.8	90	50
AC5010-10	1"	300	105	48.0	271.5	75.5	69.8	90	50

Air Filter & Pressure Regulator

AW1000



AW2000



Air Filter Regulator Specification						
Part Number	AW1000-M5	AW2000-01	AW2000-02	AW1000-M5D	AW2000-01D	AW2000-02D
	Manual Drain			Automatic Drain		
Port Size	M5	1/8"	1/4"	M5	1/8"	1/4"
Pressure Gauge Connection	1/16"	1/8"	1/8"	1/16"	1/8"	1/8"
Flow Rate (l/min)	100	550	550	100	550	550
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Not Available					

AW3000



Air Filter Regulator Specification				
Part Number	AW3000-02	AW-3000-03	AW3000-02D	AW3000-03D
	Manual Drain		Automatic Drain	
Port Size	1/4"	3/8"	1/4"	3/8"
Pressure Gauge Connection	1/8"	1/8"	1/8"	1/8"
Flow Rate (l/min)	2000	2000	2000	2000
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			

AW4000

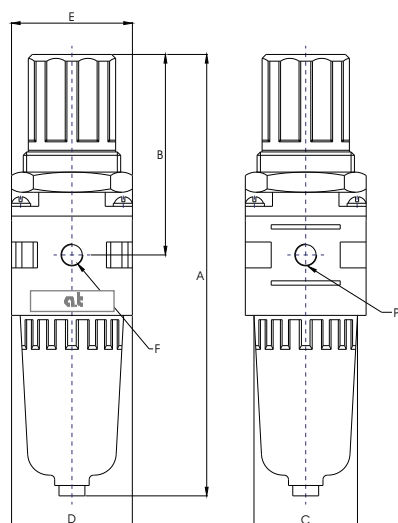


Air Filter Regulator Specification						
Part Number	AW4000-03	AW4000-04	AW4000-06	AW4000-03D	AW4000-04D	AW4000-06D
	Manual Drain			Automatic Drain		
Port Size	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	4000	4000	4500	4000	4000	4500
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi					
Regulating Pressure	0.05 to 0.85 Mpa					
Working Temperature	5 to 60°C					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Available					

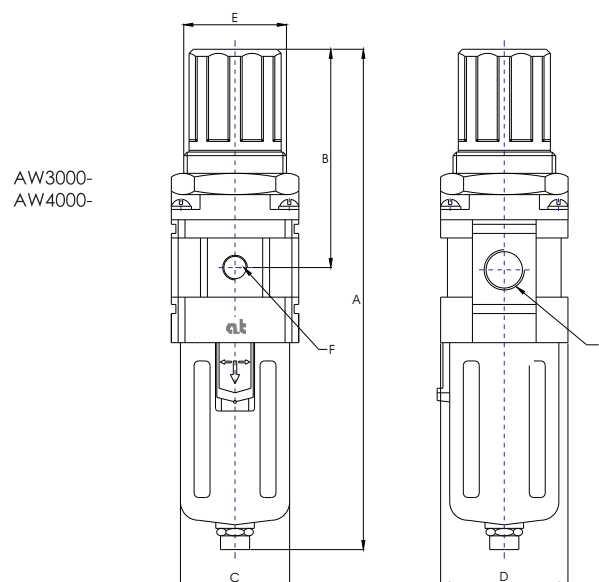
AW5000



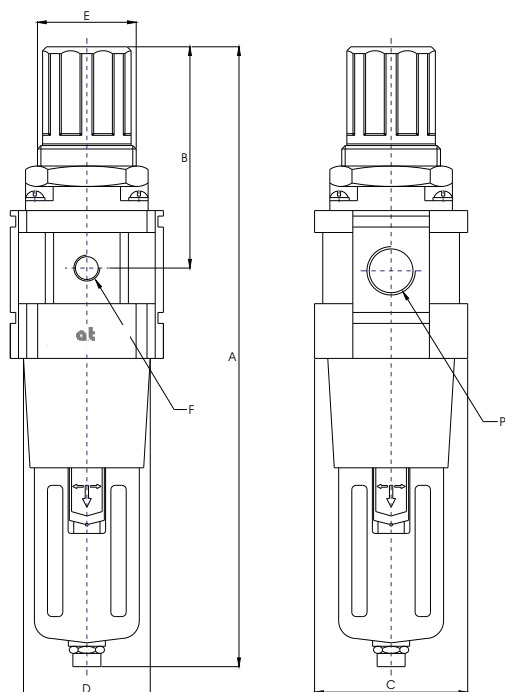
Air Filter Regulator Specification				
Part Number	AW5000-06	AW5000-10	AW5000-06D	AW5000-10D
	Manual Drain		Automatic Drain	
Port Size	3/4"	1"	3/4"	1"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	5500	5500	5500	5500
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi			
Regulating Pressure	0.05 to 0.85 Mpa			
Working Temperature	5 to 60°C			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			



AW1000-
AW2000-



AW3000-
AW4000-



AW5000-

Air Filter Regulator Dimensions

Model	P (Port Size)	A	B	C	D	E	F (Pressure Gauge)
AW1000-M5	M5	109.5	50.5	25	28	28	1/16"
AW2000-01	1/8"	164.5	78.0	40	40	34	1/8"
AW2000-02	1/4"	164.5	78.0	40	40	34	1/8"
AW3000-02	1/4"	211.0	92.5	53	53	40	1/8"
AW3000-03	3/8"	211.0	92.5	53	53	40	1/8"
AW4000-03	3/8"	262.0	112.0	70	70	54	1/4"
AW4000-04	1/2"	262.0	112.0	70	70	54	1/4"
AW4000-06	3/4"	267.0	114.0	70	70	54	1/4"
AW5000-06	3/4"	338.0	116.0	90	90	54	1/4"
AW5000-10	1"	338.0	116.0	90	90	54	1/4"

Air Filter Manual / Automatic Drain

AF1000



AF2000



Air Filter Specification						
Part Number	AF1000-M5	AF2000-01	AF2000-02	AF1000-M5D	AF2000-01D	AF2000-02D
	Manual Drain			Automatic Drain		
Port Size	M5	1/8"	1/4"	M5	1/8"	1/4"
Flow Rate (l/min)	110	750	750	110	750	750
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi					
Working Temperature	5 to 60°C					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Not Available					

AF3000



Air Filter Specification				
Part Number	AF3000-02	AF3000-03	AF3000-02D	AF3000-03D
	Manual Drain		Automatic Drain	
Port Size	1/4"	3/8"	1/4"	3/8"
Flow Rate (l/min)	1500	1500	1500	1500
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi			
Working Temperature	5 to 60°C			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			

AF4000

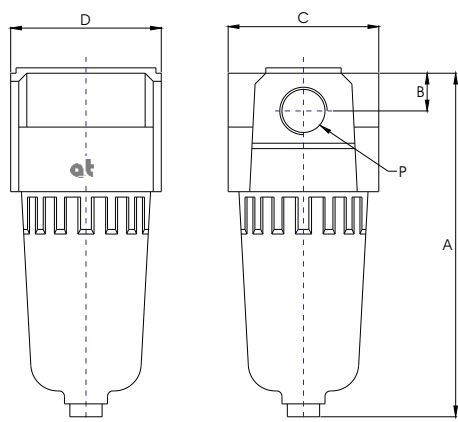


Air Filter Specification						
Part Number	AF4000-03	AF4000-04	AF4000-06	AF4000-03D	AF4000-04D	AF4000-06D
	Manual Drain			Automatic Drain		
Port Size	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"
Flow Rate (l/min)	4000	4000	6000	4000	4000	6000
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi					
Working Temperature	5 to 60°C					
Bowl Material	Polycarbonate					
Filter Element	Bronze 5, 20, 25 µ					
Metal Guard Bowl	Available					

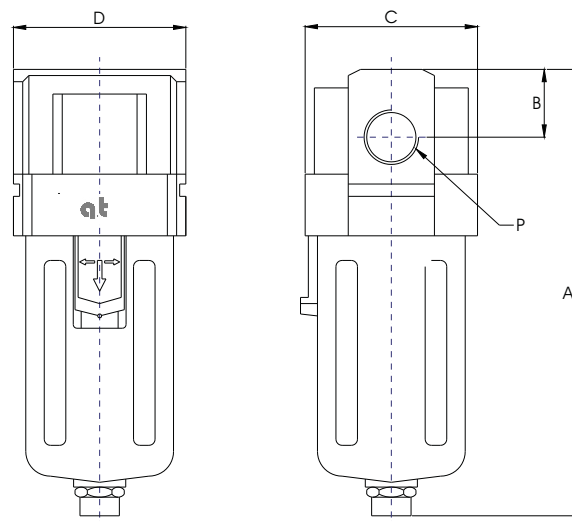
AF5000



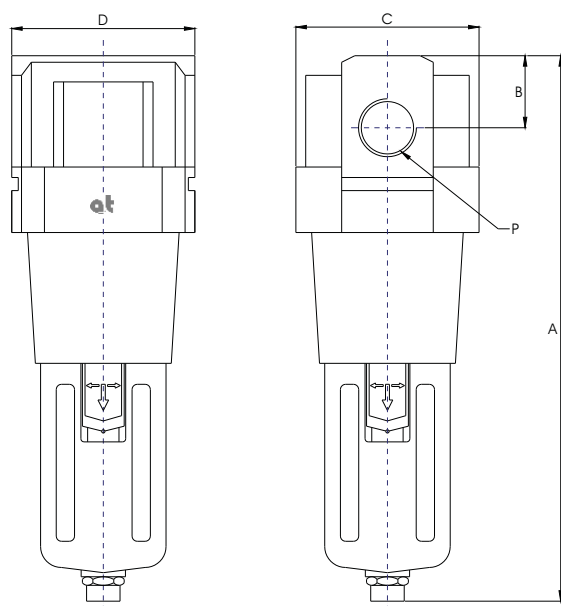
Air Filter Specification				
Part Number	AF5000-06	AF5000-10	AF5000-06D	AF5000-10D
	Manual Drain		Automatic Drain	
Port Size	3/4"	1"	3/4"	1"
Flow Rate (l/min)	7000	7000	7000	7000
Working Pressure	1 Mpa, 10 Kgf/cm ² , 150 psi			
Working Temperature	5 to 60°C			
Bowl Material	Polycarbonate			
Filter Element	Bronze 5, 20, 25 µ			
Metal Guard Bowl	Available			



AF1000-
AF2000-



AF3000-
AF4000-



AF5000-06
AF5000-10

Air Filter Dimensions

Model	P (Port Size)	A	B	C	D
AF1000-M5	M5	66.0	7	25	-
AF2000-01	1/8"	97.5	11	40	40
AF2000-02	1/4"	97.5	11	40	40
AF3000-02	1/4"	132.5	14	53	53
AF3000-03	3/8"	132.5	14	53	53
AF4000-03	3/8"	168.5	18	70	70
AF4000-04	1/2"	168.5	18	70	70
AF4000-06	3/4"	172.5	20	70	70
AF5000-06	3/4"	247.5	24	90	90
AF5000-10	1"	247.5	24	90	90

Air Pressure Regulator & Automatic Drain Trap

AIR PRESSURE REGULATOR

AR1000/2000



AR3000



Air Pressure Regulator Specification					
Part Number	AR1000-M5	AR2000-01	AR2000-02	AR3000-02	AR3000-03
Port Size	M5	1/8"	1/4"	1/4"	3/8"
Pressure Gauge Connection	1/16"	1/8"	1/8"	1/8"	1/8"
Flow Rate (l/min)	100	550	550	2500	2500
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi				
Regulating Pressure	0.05 to 0.85 Mpa				
Working Temperature	5 to 60°C				

AR4000 / AR5000



Air Pressure Regulator Specification					
Part Number	AR4000-03	AR4000-04	AR4000-06	AR5000-06	AR5000-10
Port Size	3/8"	1/2"	3/4"	3/4"	1"
Pressure Gauge Connection	1/4"	1/4"	1/4"	1/4"	1/4"
Flow Rate (l/min)	6000	6000	6000	8000	8000
Working Pressure	1 Mpa, 10 Kg/cm ² , 150 psi				
Regulating Pressure	0.05 to 0.85 Mpa				
Working Temperature	5 to 60°C				

AIR LUBRICATOR

AL1000/2000



AL3000



Air Lubricator Specification					
Part Number	AL1000-M5	AL2000-01	AL2000-02	AL3000-02	AL3000-03
Port Size	M5	1/8"	1/4"	1/4"	3/8"
Flow Rate (l/min)	95	800	800	1700	1700
Working Pressure	1 Mpa, 10 kg/cm ² , 150 psi				
Recommended Lubricant	SAE10				
Working Temperature	5 to 60°C				
Bowl Material	Polycarbonate				
Bowl Guard	Not Available			Available	

AL4000



AL5000



Air Lubricator Specification					
Part Number	AL4000-03	AL4000-04	AL4000-06	AL5000-06	AL5000-10
Port Size	3/8"	1/2"	3/4"	3/4"	1"
Flow Rate (l/min)	5000	5000	6300	7000	7000
Working Pressure	1 Mpa, 10 kg/cm ² , 150 psi				
Recommended Lubricant	SAE 10				
Working Temperature	5 to 60°C				
Bowl Material	Polycarbonate				
Bowl Guard	Available				

Automatic Drain Trap

HAD402



Automatic Drain Trap Specification			
Part Number	HAD4000-02	HAD4000-03	HAD4000-04
Port Size	1/4"	3/8"	1/2"
Discharge Rate	5 (l/min.)		
Working Pressure	1 Mpa, 10 kg/cm ² , 150 psi		
Working Temperature	5 to 60°C		
Drain	Automatic		
Drain Port	1/4" Female		
Bowl Material	Polycarbonate		
Bowl Guard	Available		



Filter Bracket

B140/B540

Y20T / Y50T



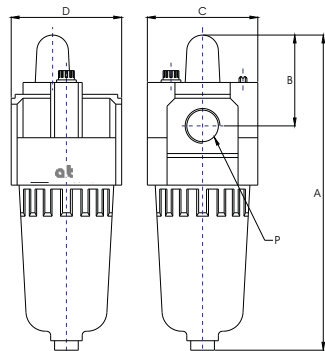
B120/B520



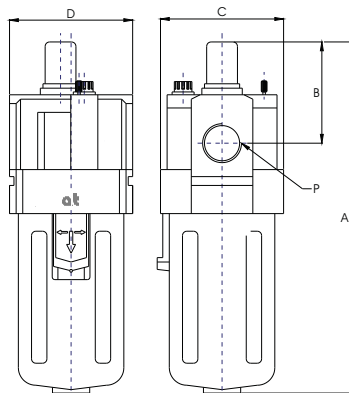
Pressure Regulator Bracket

Connector Bracket

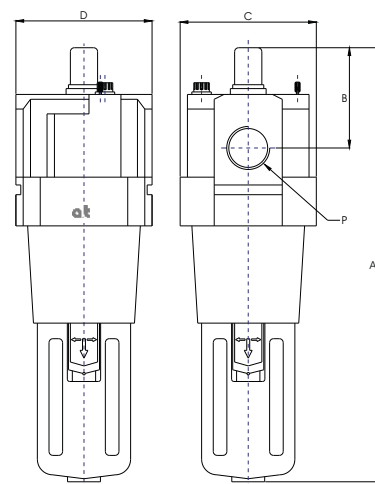
Mounting Bracket							
Part Number			Part Number			Part Number	
B120	AR1000	AW1000	Y10T	AC1000	AC1010	B140	AF1000
B220	AR2000	AW2000	Y20T	AC2000	AC2010	B240	AF2000
B320	AR3000	AW3000	Y30T	AC3000	AC3010	B340	AF3000
B420	AR4000	AW4000	Y40T	AC4000	AC4010	B440	AF4000
B520	AR5000	AW5000	Y50T	AC5000	AC5010	B540	AF5000



AL1000- AL2000-



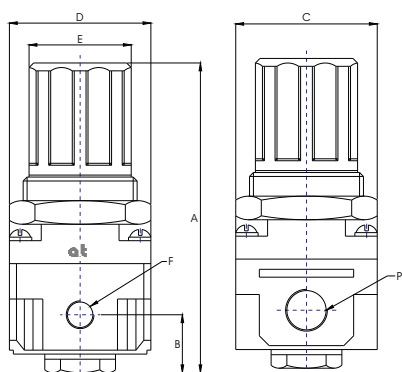
AL3000- AL4000-



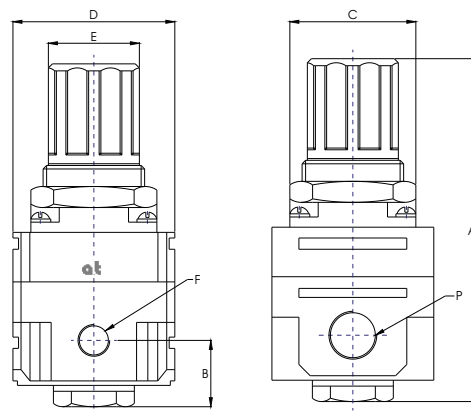
AL5000-

Air Lubricator Dimensions

Model	P (Port Size)	A	B	C	D
AL1000-M5	M5	81.5	25.5	25	-
AL2000-01	1/8"	122	38.0	40	40
AL2000-02	1/4"	122	38.0	40	40
AL3000-02	1/4"	142	38.0	53	53
AL3000-03	3/8"	142	38.0	53	53
AL4000-03	3/8"	177	41.0	70	70
AL4000-04	1/2"	177	41.0	70	70
AL4000-06	3/4"	177	41.0	70	70
AL5000-06	3/4"	254	45.0	90	90
AL5000-10	1"	254	45.0	90	90



AR1000- AR2000- AR3000- AR4000-



AR5000-

Air Pressure Regulator Dimensions

Model	P (Port Size)	A	B	C	D	E	F (Pressure Gauge)
AR1000-M5	M5	61.5	11.0	25	25	28	1/16"
AR2000-01	1/8"	95.0	17.0	40	40	34	1/8"
AR2000-02	1/4"	95.0	17.0	40	40	34	1/8"
AR3000-02	1/4"	127.5	35.0	53	53	40	1/8"
AR3000-03	3/8"	127.5	35.0	53	53	40	1/8"
AR4000-03	3/8"	149.5	37.5	70	70	54	1/4"
AR4000-04	1/2"	149.5	37.5	70	70	54	1/4"
AR4000-06	3/4"	154.0	40.5	70	75	54	1/4"
AR5000-06	3/4"	168.0	48.0	90	90	54	1/4"
AR5000-10	1"	168.0	48.0	90	90	54	1/4"

AC、BC Series F.R.L Combination



Model	Port Size Rc(PT)	Assembly			Max. Pressure MPa	Pressure Resistance MPa	Pressure Range MPa	
		Filter	Regulator	Lubricator				
AC1500 	1/8"	AF1500	AR1500	AL1500	0.95	1.5	0.05-0.85	
AC2000 	1/4"	AF2000	AR2000	AL2000				
BC2000 	1/4"	BF2000	BR2000	BL2000				
BC3000 	3/8"	BF3000	BR3000	BL3000				
BC4000 	1/2"	BF4000	BR4000	BL4000				

AFC、BFC Series FR.L Combination



Model	Port Size Rc(PT)	Assembly		Max. Pressure MPa	Pressure Resistance MPa	Pressure Range MPa	
		Filter& Regulator	Lubricator				
AFC1500 	1/8"	AFR1500	AL1500	0.95	1.5	0.05-0.85	
AFC2000 	1/4"	AFR2000	AL2000				
BFC2000 	1/4"	BFC2000	BL2000				
BFC3000 	3/8"	BFC3000	BL3000				
BFC4000 	1/2"	BFC4000	BL4000				

AF、BF Series Filter



Model	Port Size Rc(PT)	Working Fluid	Material			Pressure Resistance MPa	Working Temp. Range °C	
			Body	Container	Cover			
AF1500 	1/8"	Air	Al.	PE	-	1.5	5-60	
AF2000 	1/4"				-			
BF2000 	1/4"				Iron			
BF3000 	3/8"				Iron			
BF4000 	1/2"				Iron			

AFR、BFR Series Filter & Regulator



Model	Port Size Rc(PT)	Working Fluid	Material			Pressure Resistance MPa	Working Temp. Range °C	
			Body	Container	Cover			
AFR1500 	1/8"	Air	Al.	PE	-	1.5	5-60	
AFR2000 	1/4"				-			
BFR2000 	1/4"				Iron			
BFR3000 	3/8"				Iron			
BFR4000 	1/2"				Iron			

AL、BL Series Lubricator



Model	Port Size Rc(PT)	Working Fluid	Material			Pressure Resistance MPa	Working Temp. Range °C	
			Body	Container	Cover			
AL1500 	1/8"	空气	Al.	PE	-	1.5	5-60	
AL2000 	1/4"				-			
BL2000 	1/4"				Iron			
BL3000 	3/8"				Iron			
BL4000 	1/2"				Iron			

AR、BR Series Regulator



Model	Port Size Rc(PT)	Max. Pressure	Pressure Resistance	Working Temp. Range	Material	Adjustable Pressure Range	
AR1500 	1/8"	0.95	1.5	5-60	Al.	0.05-0.85	
AR2000 	1/4"						
BR2000 	1/4"						
BR3000 	3/8"						
BR4000 	1/2"						

OU Series F.R.L Combination



Model	Port Size	Rated Flow			Working Material	Working Pressure	
		OFR-...(-A)	OFR-...-7-(-A)	OFR-...-5M-(-A)			
OU-...-MINI	G1/8	700	800	600	Air	0.5-12 0.5-7	
	G1/4	1000	1300	850			
	G3/8	1200	1500	1050			
OU-...-MIDI	G3/8	2000	2500	1700			
	G1/2	2600	2800	1800			
	G3/4	2600	2800	2100			
OU-...-MAXI	G3/4	7000	8500	6500			
	G1	8000	8700	7200			

OFR Series Filter & Regulator



Model	Port Size	Rated Flow			Working Material	Working Pressure	
		OFR-...(-A)	OFR-...-7-(-A)	OFR-...-5M-(-A)			
OFR-...-MINI	G1/8	750	900	650	Air	0.5-12 0.5-7	
	G1/4	1400	1500	1200			
	G3/8	1600	1700	1350			
OFR-...-MIDI	G3/8	3100	3400	2400			
	G1/2	3400	3900	2500			
	G3/4	3400	4000	2600			
OFR-...-MAXI	G3/4	9000	9500	7300			
	G1	10000	1600	7600			

OR Series Regulator



Model	Port Size	Rated Flow		Working Material	Working Pressure	
		OR-...	OFR-...-7-			
OR-...-MINI	G1/8	800	1000	Air	0.5-12 , 0.5-7	
	G1/4	1500	1600			
	G3/8	1700	1800			
OR-...-MIDI	G3/8	3200	3300			
	G1/2	3500	4000			
	G3/4	3500	4500			
OR-...-MAXI	G3/4	11000	12000			
	G1	11500	12500			

OF Series Filter



Model	Port Size	Rated Flow		Working Material	Working Temp. °C	
		OR-...(-A)	OFR-...-5M-(-A)			
OF-...-MINI	G1/8	1000	600	Air	0-50	
	G1/4	1200	950			
	G3/8	1400	1100			
OF-...-MIDI	G3/8	2700	1800			
	G1/2	3000	1900			
	G3/4	3000	1900			
OF-...-MAXI	G3/4	5000	3200			
	G1	5300	3300			

OL Series Lubricator



Model	Port Size	Rated Flow	Working Material	Max.Working Pressure bar	Working Temp. °C	
OL-...-MINI	G1/8	1300	Air	16	0-60	
	G1/4	2300				
	G3/8	2700				
OL-...-MIDI	G3/8	5500				
	G1/2	6100				
	G3/4	6300				
OL-...-MAXI	G3/4	8400				
	G1	9000				

Air Conditioning Combination



Model	MACP300	
Components	MAFR300 , MAL300	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Set pressure range	0.5~8.5kgf/cm ² (0.05~0.85Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Filtering Accuracy	standard : 5μm choice : 40μm	
Oil Storage Capacity of Cup	55c.c	
The Smallest Drop of Air Traffic	50L/min	60L/min
Suggested Lube	Round of oil : ISO-VG32	
Subsidiary Accessories	Pressure guage,T type manometer	
Weight	720g	

Air Conditioning Combination



Model	MACP401		
Components	MAFR401 , MAL401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Set pressure range	standard type : 1~8.5kgf/cm ² (0.1~0.85Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Filtering Accuracy	standard : 40μm choice : 5μm		
Oil Storage Capacity of Cup	200c.c		
The Smallest Drop of Air Traffic	30L/min	65L/min	80L/min
Suggested Lube	Round of oil : ISO-VG32		
Subsidiary Accessories	Pressure guage,L type manometer		
Weight	1518g		

Air Conditioning Combination



Model	MACT300	
Components	MAF300 , MAR300 , MAL300	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	空气/Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Effective Basal Area	32mm ²	34mm ²
Set pressure range	0.5~8.5kgf/cm ² (0.05~0.85Mpa)	
Ambient Temperature	-5~+60℃(不冻结/Not frozen)	
Filtering Accuracy	标准/standard : 5μm 选用/choice : 40μm	
Oil Storage Capacity of Cup	55c.c	
The Smallest Drop of Air Traffic	50L/min	60L/min
Suggested Lube	轮机油/Round of oil : ISO-VG32	
Subsidiary Accessories	压力表 , T型支架/Pressure guage,T type manometer	
Weight	1000g	

Air Conditioning Combination



Model	MACT401		
Components	MAF401 , MAR401 , MAL401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	空气/Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Set pressure range	标准型/standard type : 1~8.5kgf/cm ² (0.1~0.85Mpa)		
Ambient Temperature	-5~+60℃(不冻结/Not frozen)		
Filtering Accuracy	标准/standard : 40μm 选用/choice : 5μm		
Oil Storage Capacity of Cup	200c.c		
The Smallest Drop of Air Traffic	30L/min	65L/min	80L/min
Suggested Lube	轮机油/Round of oil : ISO-VG32		
Subsidiary Accessories	压力表 , L型支架/Pressure guage,L type manometer		
Weight	1821g		

Air Conditioning Combination (Filter Regulator)



Model	MAFR300	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Effective Basal Area	32mm ²	34mm ²
Set pressure range	0.5~8.5kgf/cm ² (0.05~0.85Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Filtering Accuracy	standard : 5μm choice : 40μm	
Subsidiary Accessories	Pressure gauge,T type manometer	
Weight	500g	

Air Conditioning Combination (Filter Regulator)



Model	MAFR401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Set pressure range	standard type : 1~8.5kgf/cm ² (0.1~0.85Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Filtering Accuracy	standard : 40μm choice : 5μm		
Subsidiary Accessories	Pressure gauge,L type manometer		
Weight	800g		

Air Conditioning (Filter)



Model	MAF300	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Filtering Accuracy	standard : 5μm choice : 40μm	
Weight	300g	

Air Conditioning (Filter)



Model	MAF401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Filtering Accuracy	standard : 40μm choice : 5μm		
Weight	480g		

Air Conditioning (Adjustable Pressure)



Model	MAR200	
Pipe-caliber Code	6A	8A
Pipe-caliber Size	PT1/8	PT1/4
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Set pressure range	0.5~8.5kgf/cm ² (0.05~0.85Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Subsidiary Accessories	Manometer	
Optional Accessories	Pressure guage	
Weight	190g	

Air Conditioning (Adjustable Pressure)



Model	MAR300		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Set pressure range	standard type : 1~8.5kgf/cm ² (0.1~0.85Mpa)		
	High Pressure type : 1~15kgf/cm ² (0.1~1.5Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Subsidiary Accessories	Pressure guage,L type manometer		
Weight	250g		

Air Conditioning (Adjustable Pressure)



Model	MAR301	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Effective Basal Area	32mm ²	34mm ²
Set pressure range	0.5~8.5kgf/cm ² (0.05~0.85Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Subsidiary Accessories	Manometer	
Optional Accessories	Pressure guage	
Weight	250g	



Model	MAR401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Set pressure range	standard type : 1~8.5kgf/cm ² (0.1~0.85Mpa)		
	High Pressure type : 1~15kgf/cm ² (0.1~1.5Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Subsidiary Accessories	Pressure guage, L type manometer		
Weight	450g		

Air Conditioning Combination (Lubrication)



Model	MAL300	
Pipe-caliber Code	8A	10A
Pipe-caliber Size	PT1/4	PT3/8
Using Fluid	Air	
Operating Pressure Range	0~9.9kgf/cm ² (0~0.99Mpa)	
Pressure Resistance	15kgf/cm ² (1.5Mpa)	
Ambient Temperature	-5~+60°C(Not frozen)	
Oil Storage Capacity of Cup	55c.c	
The Smallest Drop of Air Traffic	50L/min	60L/min
Suggested Lube	Round of oil : ISO-VG32	
Weight	300g	



Model	MAL401		
Pipe-caliber Code	8A	10A	15A
Pipe-caliber Size	PT1/4	PT3/8	PT1/2
Using Fluid	Air		
Operating Pressure Range	0~15kgf/cm ² (0~1.5Mpa)		
Pressure Resistance	20kgf/cm ² (2.0Mpa)		
Ambient Temperature	-5~+60°C(Not frozen)		
Oil Storage Capacity of Cup	200c.c		
The Smallest Drop of Air Traffic	30L/min	65L/min	80L/min
Suggested Lube	Round of oil : ISO-VG32		
Weight	300g		

Push-In Metric Fittings

PC



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PC-04M5	PC-06M5	PC-08M5	PC-1001		
1/8"	PC-0401	PC-0601	PC-0801	PC-1001		
1/4"	PC-0402	PC-0602	PC-0802	PC-1002	PC-1202	
3/8"		PC-0603	PC-0803	PC-1003	PC-1203	PC-1603
1/2"		PC-0604	PC-0804	PC-1004	PC-1204	PC-1604

PHF



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PHF-04M5	PHF-06M5				
1/8"	PHF-0401	PHF-0601	PHF-0801	PHF-1001		
1/4"	PHF-0402	PHF-0602	PHF-0802	PHF-1002	PHF-1202	
3/8"		PHF-0603	PHF-0803	PHF-1003	PHF-1203	PHF-1603
1/2"		PHF-0604	PHF-0804	PHF-1004	PHF-1204	PHF-1604

PCF



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PCF-04M5	PCF-06M5				
1/8"	PCF-0401	PCF-0601	PCF-0801	PCF-1001		
1/4"	PCF-0402	PCF-0602	PCF-0802	PCF-1002	PCF-1202	PCF-1602
3/8"		PCF-0603	PCF-0803	PCF-1003	PCF-1203	PCF-1603
1/2"		PCF-0604	PCF-0804	PCF-1004	PCF-1204	PCF-1604

PST



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PST-04M5	PST-06M5				
1/8"	PST-0401	PST-0601	PST-0801	PST-1001		
1/4"	PST-0402	PST-0602	PST-0802	PST-1002	PST-1202	
3/8"		PST-0603	PST-0803	PST-1003	PST-1203	PST-1603
1/2"		PST-0604	PST-0804	PST-1004	PST-1204	PST-1604

PL



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PL-04M5	PL-06M5				
1/8"	PL-0401	PL-0601	PL-0801	PL-1001	PL-1201	
1/4"	PL-0402	PL-0602	PL-0802	PL-1002	PL-1202	PL-1602
3/8"		PL-0603	PL-0803	PL-1003	PL-1203	PL-1603
1/2"		PL-0604	PL-0804	PL-1004	PL-1204	PL-1604

PT



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PT-04M5	PT-06M5				
1/8"	PT-0401	PT-0601	PT-0801	PT-1001		
1/4"	PT-0402	PT-0602	PT-0802	PT-1002	PT-1202	PT-1602
3/8"		PT-0603	PT-0803	PT-1003	PT-1203	PT-1603
1/2"		PT-0604	PT-0804	PT-1004	PT-1204	PT-1604

PLL



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PLL-04M5	PLL-06M5				
1/8"	PLL-0401	PLL-0601	PLL-0801	PLL-1001		
1/4"	PLL-0402	PLL-0602	PLL-0802	PLL-1002	PLL-1202	PLL-1602
3/8"		PLL-0603	PLL-0803	PLL-1003	PLL-1203	PLL-1603
1/2"		PLL-0604	PLL-0804	PLL-1004	PLL-1204	PLL-1604

PWT



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PWT-04M5	PWT-06M5	PWT-08M5			
1/8"	PWT-0401	PWT-0601	PWT-0801	PWT-1001		
1/4"	PWT-0402	PWT-0602	PWT-0802	PWT-1002	PWT-1202	
3/8"		PWT-0603	PWT-0803	PWT-1003	PWT-1203	PWT-1603
1/2"		PWT-0604	PWT-0804	PWT-1004	PWT-1204	PWT-1604

PLF



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PLF-04M5	PLF-06M5				
1/8"	PLF-0401	PLF-0601	PLF-0801	PLF-1001		
1/4"	PLF-0402	PLF-0602	PLF-0802	PLF-1002	PLF-1202	
3/8"		PLF-0603	PLF-0803	PLF-1003	PLF-1203	PLF-1603
1/2"		PLF-0604	PLF-0804	PLF-1004	PLF-1204	PLF-1604

PH



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	PH-04M5	PH-06M5				
1/8"	PH-0401	PH-0601	PH-0801	PH-1001		
1/4"	PH-0402	PH-0602	PH-0802	PH-1002	PH-1202	
3/8"		PH-0603	PH-0803	PH-1003	PH-1203	
1/2"		PH-0604	PH-0804	PH-1004	PH-1204	

SL



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	SL-04M5	SL-06M5				
1/8"	SL-0401	SL-0601	SL-0801	SL-1001		
1/4"	SL-0402	SL-0602	SL-0802	SL-1002	SL-1202	
3/8"		SL-0603	SL-0803	SL-1003	SL-1203	
1/2"		SL-0604	SL-0804	SL-1004	SL-1204	

SS



Part Number						
Thread Size	Tube Outside Diameter DØ (mm)					
TØ	4	6	8	10	12	16
M5	SS-04M5	SS-06M5				
1/8"	SS-0401	SS-0601	SS-0801	SS-1001		
1/4"	SS-0402	SS-0602	SS-0802	SS-1002	SS-1202	
3/8"		SS-0603	SS-0803	SS-1003	SS-1203	
1/2"		SS-0604	SS-0804	SS-1004	SS-1204	

HVFS



Part Number					
Thread Size	Tube Outside Diameter DØ (mm)				
TØ	6	8	10	12	16
M5					
1/8"	HVFS-0601	HVFS-0801	HVFS-1001		
1/4"	HVFS-0602	HVFS-0802	HVFS-1002	HVFS-1202	
3/8"	HVFS-0603	HVFS-0803	HVFS-1003	HVFS-1203	HVFS-1603
1/2"	HVFS-0604	HVFS-0804	HVFS-1004	HVFS-1204	HVFS-1604

SA



Part Number					
Tube Outside Diameter DØ (mm)					
4	6	8	10	12	16
SA-0400	SA-0600	SA-0800	SA-1000	SA-1200	SA-1600

BSL



Part Number					
Thread TØ					
M5	1/8"	1/4"	3/8"	1/2"	3/4"
BESL-M5	BESL-01	BESL-02	BESL-03	BESL-04	BESL-06

PMM



Part Number					
Tube Outside Diameter DØ (mm)					
4	6	8	10	12	16
PMM-0400	PMM-0600	PMM-0800	PMM-1000	PMM-1200	PMM-1600

Push-In Metric Fittings & Tubing

PG



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4			PG-0406			
6				PG-0608		
8					PG-0810	
10						PG-1012
12						PG-1216

PEG



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4			PEG-0406			
6				PEG-0608		
8					PEG-0810	
10						PEG-1012
12						PEG-1216

PUC



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4		PUC-0400				
6			PUC-0600			
8				PUC-0800		
10					PUC-1000	
12						PUC-1200
16						PUC-1600

PUT



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4		PUT-0400				
6			PUT-0600			
8				PUT-0800		
10					PUT-1000	
12						PUT-1200
16						PUT-1600

PY



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4		PY-0400				
6			PY-0600			
8				PY-0800		
10					PY-1000	
12						PY-1200
16						PY-1600

PWY



Part Number						
Tube Outside Diameter (mm)						
D0 \ D0	D0	4	6	8	10	12
4			PWY-0406			
6				PWY-0608		
8					PWY-0810	
10						PWY-1012
12						PWY-1216

PUL



Part Number						
Tube Outside Diameter (mm)						
D0 \ D0	D0	4	6	8	10	12
4		PUL-0400				
6			PUL-0600			
8				PUL-0800		
10					PUL-1000	
12						PUL-1200
16						PUL-1600

PZA



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4		PZA-0400				
6			PZA-0600			
8				PZA-0800		
10					PZA-1000	
12						PZA-1200
16						PZA-1600

PKD



Part Number						
Thread Size						
T0	Tube Outside Diameter D0 (mm)					
M5	4	6	8	10	12	16
1/8"	PKD-0401	PKD-0601	PKD-0801			
1/4"	PKD-0402	PKD-0602	PKD-0802	PKD-1002		
3/8"		PKD-0603	PKD-0803	PKD-1003	PKD-1203	
1/2"				PKD-1004	PKD-1204	

PKG



Part Number						
Tube Outside Diameter (mm)						
D0 \ D0	D0	4	6	8	10	12
4			PKG-0406	PKG-0408		
6				PKG-0608	PKG-0610	
8					PKG-0810	
10						PKG-1012
12						

PP



Part Number						
Tube Outside Diameter D0 (mm)						
	4	6	8	10	12	16
PP-0400		PP-0600	PP-0800	PP-1000	PP-1200	

PGJ



Part Number						
Tube Outside Diameter (mm)						
D10 \ D0	D0	4	6	8	10	12
4			PGJ-0406			
6				PGJ-0608		
8					PGJ-0810	
10						PGJ-1012
12						PGJ-1216

PSL



Part Number				
Thread T0				
1/8"	1/4"	3/8"	1/2"	
PSL-01	PSL-02	PSL-03	PSL-04	

BSL



Part Number				
Thread T0				
M5	1/8"	1/4"	3/8"	1/2"
BSL-M5	BSL-01	BSL-02	BSL-03	BSL-04

PU



Part Number						
Tube Outside Diameter X Inside Diameter (mm)						
COLOR	4 X 2	6 x 4	8 x 6	10 x 6.5	12 x 9	16 x 14
Clear	PU-0402-CL	PU-0604-CL	PU-0806-CL	PU-1065-CL	PU-1209-CL	PU-1614-CL
Black	PU-0402-BK	PU-0604-BK	PU-0806-BK	PU-1065-BK	PU-1209-BK	PU-1614-BK
Blue	PU-0402-BU	PU-0604-BU	PU-0806-BU	PU-1065-BU	PU-1209-BU	PU-1614-BU
Yellow	PU-0402-YW	PU-0604-YW	PU-0806-YW	PU-1065-GN	PU-1209-YW	PU-1614-YW
Green	PU-0402-GN	PU-0604-GN	PU-0806-GN	PU-1065-GN	PU-1209-GN	PU-1614-GN
Red	PU-0402-RD	PU-0604-RD	PU-0806-RD	PU-1065-RD	PU-1209-RD	PU-1614-RD

UC



Part Number				
Tube Outside Diameter X Inside Diameter (mm) x Length (mtr)				
COLOR	6 x 4 -5	8 X 5.5 -5	8 X 5.5 -10	10 X 6.5 -10
Blue	UC-0604-5-BU	UC-0855-5-BU	UC-0855-10-BU	UC-1065-10-BU
Orange	UC-0604-5-OR	UC-0855-5-OR	UC-0855-10-OR	UC-1065-10-OR



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