CY3L Series Rodless Cylinder



CY3L 15×200

Ordering Code

CY3L	20	—	H	×	50	BS

Series code
CY3L: Sliding Type Ball Gruide Bearing Type

Bore Size
15mm~40mm

Manget Holding Foece Type
H: High
L: Lower(Φ6-Φ10.No.L)

Stroke
See Stroke List

Stopper Form
No mark:With adjusting screw
B: 2 hydraulic shock absorbers
BS: 1 pcs hydraulic shock absorber

Specifcation

Bore(mm)	6	10	15	20	25	32	40
Working Medium	Air(to be filtered by 40μm filter element)						
Action Type	Double-acting						
Max.operating Pressure	0.7MPa						
Min.operating Pressure	0.18MPa						
Environment and Fluid Temperature	-10~60°C (No freezing)						
Piston Speed	50~1000mm/s						
Cushion Type	Rubber cushion on both ends Shock absorber(Optional)						
Stroke Tolerance(mm)	$0\sim250^{+1.0}_{0}$, $251\sim1000^{+1.4}_{0}$, $1001\sim1500^{+1.8}_{0}$						
Lubrication	Not required (Non-lube)						
Port Size	M5×0.8			Rc1/8			Rc1/4
Mounting Method	Unlimited						

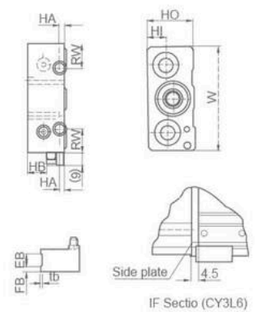
Such as the need for oil,please use turbine No.1 oil ISO VG32.

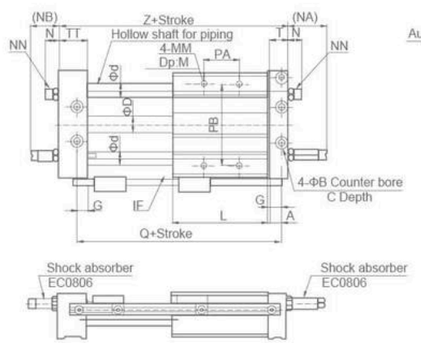
Stroke

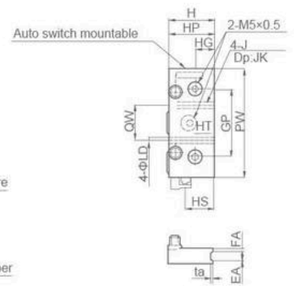
Bore(mm)	Standard storke(mm)	Longeststroke(mm)
6	50,100,150,200	300
10	50,100,150,200,250,300	500
15	50,100,150,200,250,300,350,400,450,500	750
20	50,100,150,200,250,300,350,400,450,500,600,700,800	1000
25		
32		1500
40	50,100,150,200,250,300,350,400,450,500,600,700,800,900,1000	

Overall Dimensions

CY3L 6~10







CY3L Series Rodless Cylinder

Dimension Sheet

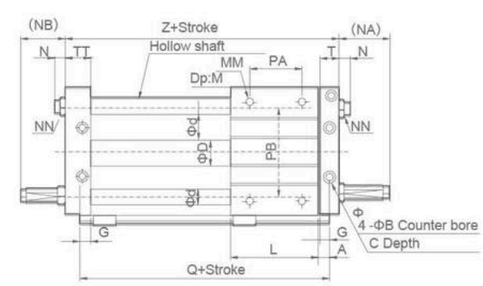
Bore(mm)	Travel range	A	B	C	D	d	EA	EB	FA	FB	G	GP	H	HA	HB	HG	HI	HO	HP	HS	HT
6	~300	7	6.5	3	7.6	8	-	-	-	-	6	36	27	6	10	11	9	25	26	14	16
10	~300	8.5	8	4	12	10	6	12	3	5	7.5	50	34	6	17.5	14.5	13.5	33	33	21.5	18

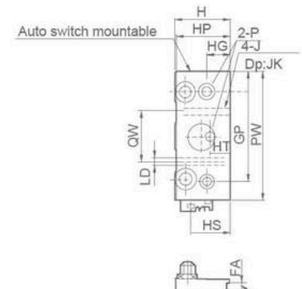
Bore(mm)	J	JK	L	D	M	MM	N	(NA)	(NB)	NN	*PA	PB	PW	Q	QW	RW	T	TT	ta	tb	W	Z
6	M4×0.7	6.5	40	3.5	6	M4×0.7	10	30	24	M8×1.0	24	40	60	54	20	12	10	16	-	-	56	68
10	M5×0.8	9.5	68	4.3	8	M4×0.7	9.5	27	19	M8×1.0	30	60	80	85	26	17.5	12.5	20.5	0.5	1.0	77	103

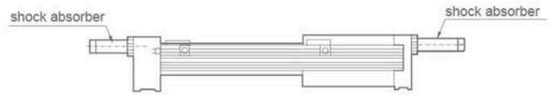
Note: Equle about center for PA and L.

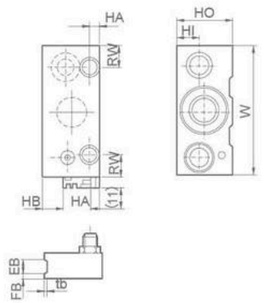
Overall Dimensions

CY3L15~40









Dimension Sheet

Bore(mm)	Travel range	A	B	C	D	d	EA	EB	FA	FB	G	GP	H	HA	HB	HG	HI	HO	HP	HS	HT	J	JK	L	LD
15	~750	7.5	9.5	5	16.6	12	6	13	3	6	6.5	65	40	6.5	4	16	14	38	39	25	16	M6×1.0	9.5	75	5.6
20	~1500	9.5	9.5	5.2	21.6	16	-	-	-	-	8.5	80	46	9	10	18	16	44	45	31	20	M6×1.0	10	86	5.6
25	~1500	9.5	11	6.5	26.4	16	8	14	4	7	8.5	90	54	9	18	23	21	52	53	39	20	M8×1.25	10	86	7
32	~1500	10.5	14	8	33.6	20	8	16	5	7	9.5	110	66	12	26.5	26.5	24.5	64	64	47.5	25	M10×1.5	15	100	9.2
40	~1500	11.5	14	8/	41.6	25	10	20	5	10	10.5	130	78	12	35	30.5	28.5	76	74	56	30	M10×1.5	15	136	9.2

Bore(mm)	M	MM	(N)	(NA)	(NB)	NN	P	*PA	PB	PW	Q	QW	RW	T	ta	tb	TT	W	Z	Shock absorber
15	8	M5×0.8	7.5	27	17	M8×1.0	M5×0.8	45	70	95	90	30	15	12.5	0.5	1.0	22.5	92	112	HAC0806
20	10	M6×1.0	10	29	20	M10×1.0	1/8	50	90	120	105	40	28	16.5	-	-	25.5	117	130	HAC1005
25	10	M6×1.0	11	49	40	M14×1.5	1/8	60	100	130	105	50	22	16.5	0.5	1.0	25.5	127	130	HAC1412
32	12	M8×1.25	11.5	52	42	M20×1.5	1/8	70	120	160	121	60	33	18.5	0.5	1.0	28.5	157	149	HAC2020
40	12	M8×1.25	10.5	51	36	M20×1.5	1/4	90	140	190	159	84	35	20.5	1.0	1.0	35.5	187	194	HAC2020

Note: Equle about center for PA and L.

A

XHSH Series Air Gripper(Through-hole type)



XHSH3-20D

Ordering Code

XHSH	□	—	3	—	32	—	D	—	□	—	□
Series Code	Dust Cover		Finger Quantity		Cylinder Bore		Action		Center Pusher		Dust Cover Material
XHSH: Through-hole Type	Blank: None J: With Dust Cover (Φ16,Φ20,Φ25 are not available with Dust cover)		3: 3PCS		16mm~80mm		D: Double-acting		Blank: None A: Cylinder Type B: Spring Type (Φ16,Φ20,Φ25 are not available with Dust cover)		Blank: CR F: FKM S: Si(with dust cover only)

Specifcation

Bore(mm)		16	20	25	32	40	50	63	80
Working Medium		Air(No Lubrication)							
Operating Pressure Range		0.2~0.6			0.1~0.6				
Ambient And Fluid		-10~+60°C (Not frezzing)							
Repeatability Precision		±0.01							
Max.motion Frequency		120			60				30
Lubrication		Not required							
Motion Pattern		Double acting							
Note:grip Power Pressure 0.5Mpa	Outer Diametter Grip	9	21	36	62	97	155	280	400
	Inner Diametter Grip	15	26	45	77	118	187	329	490
Centeral Hole Diameter		Φ3H10 $^{+0.040}_{0}$	Φ3H10 $^{+0.040}_{0}$	Φ4H10 $^{+0.040}_{0}$	Φ6H10 $^{+0.048}_{0}$	Φ10H10 $^{+0.058}_{0}$	Φ12H10 $^{+0.070}_{0}$	Φ16H10 $^{+0.070}_{0}$	Φ20H10 $^{+0.084}_{0}$
Open Close Stroke		4	4	6	8	8	12	16	20

Note: Grip distance,Φ16-Φ25,is 20mm,at Φ32-Φ63,is 30mm,at Φ80,is 50mm

SRC Series Twist Clamp Cylinder



SRC40-90L

Ordering Code

SRC	R	32	×	13	—	□
Series Code	Rotary Direction	Cylinder Bore		Stroke(push)		Plate Type
SRC: Twist clamp Cylinder	R: Right L: Left	25mm-63mm		25: 11mm 32: 13mm 40: 13mm 50: 15mm 63: 15mm		Blank: Single Plate D: Double Plate (not availble for Φ25)

Specifcation

Bore(mm)	25	32	40	50	63
Motion Pattern	Double Action				
Working Medium	Air				
Operating	1.5~9.5(150-950) kg/cm^2(kpa)				
Operating Temperture	0~60				
Operating Stroke	30~500 mm/sec				
Rotating Stroke	11	13		15	
Pushing Stroke	11	13		15	
Rotating Angle	90°can be customized(0°, 45°, 90°)				
Rotating Direction	Left-harded rotation [from right to left]-L,Right-handed rotation[from left to right]				
Cushion Direction	Rubber Gacket Buffer				
Lubricating	Self Motion Funish Pattern				
Port Size	M5×0.8				

A

ACK Series Twist Clamp Cylinder



ACKL25-90

Ordering Code

ACK	L	25	—	90	□
Series Code	Rotary Direction	Cylinder Bore		Rotary Angle	Thread Type
ACK:Twist Clamp Cylinder (Double Acting Type) ACKD: Twist Clmp Cylinder (Double Push Plate Type, only for 90°)	L: Push and turn left When the piston of cylinder moves downward.the swivel arms moves anticlockwise, this is called levorotatory R: Push and turn right When the piston of cylinder moves downward.the swivel arms moves clockwise, this is called destrorotary	25mm~63mm		90: 90° 180:180°	Blank: PT N: NPT G: G

Specifcation

Bore(mm)	25	32	40	50	63
Metion Pattern	Double Action				
Working Medium	Air				
Operating Pressure Range	0.15~1.0(23~148) kg/cm^2(kpa)				
Compression Resistance	1.5(215) kg/cm^2(kpa)				
Working Temperature ℃	-20~80℃				
Operating Speed Range	30~300 mm/s				
Stroke Tolerance Range	+1.0 0				
Rotating Angle Tolerance Range	±1.5				
*Cushion Model	crash pad				
*Port Size	M5×0.8	PT1/8			

MXH Series Slide Cylinder



MXH 16-10

Ordering Code

MXH	10	×	30
Series Code	Cylinder Bore		Stroke
MXH: Air Slide Table	6mm-20mm		5mm-60mm

Specifcation

Bore(mm)	6	10	16	20
Guide Bearing Width	5	7	9	12
Working Medium	Air(to be filtered by 40μm filter element)			
Action	Double acting			
Min.operating Pressure	0.15MPa	0.06MPa		0.05MPa
Max.operating Pressure	0.7MPa			
Ambient And Fluid Temperature	Without auto switch:-10~+70°C With auto switch:-10~+60°C (No freezing)			
Piston Speed	50~500mm/s			
Allowable Kinetic Energy	0.0125	0.025	0.05	0.1
Lubrication	Non-lube			
Cushion	Rubber bumper on both ends			
Stroke Length Tolerance	+1.0 0			
Piping Port Size	M5×0.8			

Such as the need Lubrication,please use turbine No.1 oil ISO VG32.

A

MXS Series Slide Cylinder



MXS 12×50

Ordering Code

MXS □ 12 × 50 □ — □

Series Code	Cylinder Bore	Stroke	Adjuster Option	Function Option
MXS: Air Slide Table	6mm~20mm	10mm~150mm	Blank: Standard AS: Adjuster on extension end AT: Adjuster on retraction end A: Adjuster on both ends BS: Absorber on extension end (not available forΦ6) BT: Absorber on retraction end (not available forΦ6) B: Absorber on both ends (not available forΦ6)	Blank: Standard F: With buffer R: With end lock (not available forΦ6) P: Axial Piping Type FR: With buffer and end lock(not available forΦ6) FP: With Buffer and axial Piping Type

Specifcation

Bore(mm)	6×2 (Equivalent Φ8)	8×2 (Equivalent Φ11)	12×2 (Equivalent Φ17)	16×2 (Equivalent Φ22)	20×2 (Equivalent Φ28)	25×2 (Equivalent Φ35)
Working Medium	Air(to be filtered by 40μm filter element)					
Action Way	Double-acting					
Maximun Operating Pressure	0.7MPa					
Minimum Operating Pressure	0.15MPa					
Environment And Fluid Temperature	-10~+60℃					
Piston Speed	50~500mm/s					
Buffering	Rubber buffer(standard)					
Lubrication	Non-lube					
Port Size	M3×0.5	M5×0.8			Rc1/8	

MXQ Series Slide Cylinder



MXQ 16x20

Ordering Code

MXQ 12 □ × 50 □ — FR

Series Code	Cylinder Bore	Body Option	Stroke	Adjuster Type(optional)	Function Option
MXQ: Air Slide Table	6mm~25mm	Blank: Standard L: Symmetric Type	10mm~150mm	Blank: Standard AS: Buffer on extension end AT: Buffer on retraction end A: Buffer on Both ends BS: Absorber on extension end(not available forΦ6) BT: Absorber on retraction end(not available forΦ6) B: Absorber on both ends(not available forΦ6) CS: Metal stopper on extension end CT: Metal stopper on retraction end C: Metal stopper on both ends	Blank: Standard F: With Buffer R: With end lock(not available forΦ6) P:Axial piping type FR: With buffer and end lock(not available forΦ6) FP: With buffer and axial piping type

Specifcation

Bore(mm)	6×2 (Equivalent Φ8)	8×2 (Equivalent Φ11)	12×2 (Equivalent Φ17)	16×2 (Equivalent Φ22)	20×2 (Equivalent Φ28)	25×2 (Equivalent Φ35)
Working medium	Air(to be filtered by 40μm filter element)					
Action way	Double-acting					
Maximun operating pressure	0.7MPa					
Minimum operating pressure	0.15MPa					
Environment and fluid temperature	-10~+60℃ (But not frozen)					
Specifications	50~500mm/s(Adjuster option/Metal stoppe:50~200mm/s)					
Cushion	Rubber buffer(standard,Adjuster option/Rubber stopper) Shock absorber(Adjuster option/Shock absorber) None(Adjuster option/Metal stopper)					
Stroke length tolerance	No need					
Lubricatin	Non-Lub					
Port Size	M3x0.5	M3x0.8			Rc1/8	

CRB2 Series Vane Rotary Actuators



CRB2BW30-270S

Ordering Code

CRB2 B W U 10 — 180 S

Series Code	Mounting Type	Shaft Type	Angle Adjuster	Cylinder Bore	Rotation Angle	Vane Type
CRB2: Rotary Vane CDRB2: With Magnet	B: Basic Type F: Flange Type(Not available for Φ40)	S: Single Shaft W: Double shaft	Blank: Without U: With	10mm-40mm	90: 90° 100: 100°(Double Vane) 180: 180° (Single Vane) 270: 270° (Single Vane)	S: Single Vane D: Double Vane

Specifcation

Bore(mm)			10	15	20	30	40
Working medium			Air(to be filtered by 40μm filter element)				
Max.operating pressure			0.7MPa			1.0MPa	
Min.operating pressure			0.2MPa		0.15MPa		
Ambient and fluid temperature			5~60℃				
Rotation time adjustment range				0.03~0.3mm/s		0.04~0.3mm/s	0.07~0.5mm/s
Allowable kinetic energy	Single vane	With cushion	0.00015	0.00025	0.0001	0.015	0.03
		Without cushion		0.001	0.003	0.02	0.04
	Double vane			0.0003	0.0012	0.0033	0.02	0.04
Shaft load	Radial		15	15	25	30	60
	Thrust		10	10	20	25	40
Connection size	Side ported		M3×0.5 (Single-blade cylinder side swing angle 90°、180°-M5×0.8)		M5×0.8		
	Axial ported						
Angle adjustable range of angle adjustment unit	Single vane		0~230°		0~240°		0~230°
	Double vane		0~90°				

MRHQ Series Rotary Gripper(Angular Type)



MRHQ16-180S

Ordering Code

MRHQ 10 D — 90 S

Series Code	Cylinder Bore	Action	Rotation Angle	Single Vane
MRHQ: Rotary 2 Fingers Gripper	10mm-25mm	D: Double-acting S: Single-acting (Normally Open) C: Single-acting (Normally Closed)	90: 90° 180: 180°	Single Vane

Specifcation

Bore(mm)			10	16	20	25
Working Medium			Air(to be filtered by 40μm filter element)			
Claw Motion Pattern			0.7			1.0
Operating Pressure Range (Mpa)	Rotating		0.25~0.7		0.25~1.0	
	Claw	Double Action	0.25~0.7	0.1~0.7		
		Single Action	0.35~0.7	0.25~0.7		
Pendulum Angle			90°±10°，180°±10°			
Claw Gripe Open Close Repeatability Precision			±0.01mm			
Claw Highest Motion Frequency			180c.p.m			
Ambient And Fluid Temperature			5~60℃ (Not freezing)			
Pendulum Adjustable Time			0.07~0.3s/90° (0.5MPa)			
Perrnission Kinetic Energy (J)			0.0046	0.014	0.034	0.074
Gripper Open Close Stroke (mm)			4	61	0	14

MSUB Series Rotary Table (Vane Type)



MSUB7-180S

Ordering Code

MSUB	20	—	90	S
Series Code	Nominal Size		Rotation Angle	Vane Type
MSUB: Normal Type MDSUB: Attach Magnet Type	1: MSUB 1 3: MSUB 3 7: MSUB 7 20: MSUB 20		90: 90° 180: 180°	S: Single Vane D: Double Vane

Specifcation

Model		MSUB1		MSUB3		MSUB7		MSUB20	
Vane Pattern		Single Vane							
Rotating angle		90°±10°	180°±10°	90°±10°	180°±10°	90°±10°	180°±10°	90°±10°	180°±10°
Working Medium		Air(No Lubrication)							
Ambient snd fluid temperature		5~60℃							
Operating Pressure range (MPa)		0.2~0.7		0.15~0.7				0.15~1.0	
Rotation time adjustable range (0.5MPa)		0.07~0.3s/90°							
Bearing		Bearing							
Port size	Body side	M3×0.5		M5×0.8					
Rotation Precision		Within 0.03mm							
Permission axle Lead	Radial direction	20		40		50		60	
	Axual direction	15		30		60		80	
	Moment (N·m)	0.3		0.7		0.9		2.9	

MU Series Plate Air Cylinder



MDUD 25×40

Ordering Code

MU	□	B	25 × 50	— D	□
Series Code	Rod Type	Mounting Type	Cylinder Bore	Stoke	Action	Rod End Thread
MU: Normal Type MDU: Attach Magnet Type	Blank: Single rod W: Double rod	B: Basic Type	25mm~63mm		D: Double-acting S: Single-acting Extrusion Type T: Single-acting Drawing-in Type	Blank: Rod end Female Thread M: Rod end Male Thread

Specifcation

Bore(mm)	25	32	40	50	63
Working Medium	Air				
Action way	Double-acting Single-acting Drawing-in Type,Single-acting Extrusion Type				
Maximun operating pressure	0.7MPa				
Minimum operating pressure	Double-acting: 0.05MPa Single-acting: 0.18MPa				
Environment and fluid temperature	-10~60℃				
Piston Speed	50~500mm/s				
Cushion	Two side rubber cushion				
Stroke adjustable Range	+1.4 0				
*Lubricatin	No need				
Precision of Pistion rod Non-rotating	±1°			±0.5°	
Port Size Rc	M5×0.8	1/8		1/4	

Such as the need Lubrication,please use turbine No.1 oil ISO VG32.

XHTG Series Rotary Indexing Table



XHTG63-12-A

Ordering Code

XHTG	90	—	2	—	A	—	P4
Series Code	Cylinder Size		Indexing		Position Sensing		Energy through-feed
Rotary indexing table	65mm~220mm		2:2 indexing stations 3:3 indexing stations 4:4 indexing stations 6:6 indexing stations 8:8 indexing stations 12:12 indexing stations 24:24 indexing stations		A:For proximity sensor		Blank:None P4:Pneumatic,4 ducts P4L12:Pneumatic,4 ducts and electric,12 cables P4E4:Pneumatic,4 ducts and electric,4 cables

Specifcation

Size(mm)	65	90	140	220
Operating Medium	Compressed air			
Mode Of Operation	Double-acting			
Operating Pressure	0.4~0.8MPa			
Ambient Temperature	5~60°C			
Storage Temperature	-20~80°C			
Cushioning	Adjustable shock absorber stroke,hard characteristic curve			
Indexing	2,3,4,6,8,12,24		3,4,6,8,12,24	
Theoretical Torque At 0.6MPa	2.1Nm	4.4Nm	18.1Nm	58.9Nm
Parallelism Of Plate	≤0.04mm			
Axial Eccentricity Of Plate	≤0.02mm			
Concentricity Of Plate	≤0.02mm			
Repetition Accuracy Of Swivel Angle	≤0.03°			
Max. Mass Moment Of Inertia With Out Flow Control	0.016kgm^2	0.03kgm^2	0.3kgm^2	2.5kgm^2
Port Size	M5		G1/8"	

XFM Series Guide Rod Cylinder



XFM16X30-P-A-GF

Ordering Code

XFM	20 × 25	— B	— P	— A	GF
Series	Piston Diameter	Stroke range	Generation	Cushioning	Position Sensing	Guide
Guided Cylinder Double-acting	6mm~100mm	10mm~400mm	Blank:Standard B:Function-optimised	P:Elastic cushioning rings/plates on both sides PPV: Pneumatic cushioning, adjustable at both ends YSRW: Shock absorber, self adjusting, progressive	A:For proximity sensor	GF: Plain bearing KF: Recirculating ball bearing guide

Specifcation

Piston Diameter(mm)		6	10	12	16	20	25	32	40	50	63	80	100
Operating Medium		Compressed air											
Operating Pressure(Mpa)		0.2~0.8	0.15~0.8	0.2~1			0.15~1			0.1~1		0.05~1	
Ambient Temperature	XFM-...-GF	-10~60℃						-20~80℃					
	XFM-...-KF	-						-5~60℃					
Cleanroom Class	XFM-...-GF	-					8				6	-	
	XFM-...-KF	-					5					-	
Port Size		M3		M5			G1/8"			G1/4"		G3/8"	

A

XRRD Series Twin Pistons Semi-rotary Cylinder



XRRD16-180-P

Ordering Code

XRRD	10	—	180	FH	—	P2	—	P	—	A	PS1	E1

Series
Twin Pistons Semi-rotary Cylinder

Size
8mm
10mm
12mm

Nominal Swivel Angle
180:180°

Output Shaft
FH:Flanged shaft,hollow

Energy through-Feed
Blank:None
P2
P2E2P4
P4E6
P8
P8E8

Cushioning
P
Y9
Y10
Y12
Y14

Position Sensing
A:For proximity sensor

Intermediate Position
Blank:None
PSI:1 intermediate position

End-Position Locking
Blank:None
E1:Both sides

Note:
P2:Pneumatic,2 ducts
P2E2:Pneumatic,2 ducts and electric,2 signals
P4:Pneumatic,4 ducts
P4E6:Pneumatic,4 ducts and electric,6 signals
P8:Pneumatic,8 ducts
P8E8:Pneumatic,8 ducts and electrical,8 signals

Note:
P:Elastic cushioning rings/plates on both sides
Y9：Shock absorber,self-adjusting,linear,at both ends
Y10：Shock absorber,self-adjusting,linear at both ends,hard
Y12: Shock absorber,self-adjusting,linear at both ends,external
Y14:Shock absorber,self-adjusting,linear on both sides,soft

Specifcation

Size(mm)		8	10	12
Operating Medium		Compressed air		
Mode of Operation		Double-acting		
Operating Pressure	XRRD-...-P	0.3~0.8MPa		
	XRRD-...-Y9/-Y12	0.2~1MPa		
Ambient Temperature		–10~60℃		
Storage Temperature		–20~60℃		
Swivel Angle		180°		
Repetition Accuracy		≤ 0.03°		
Axial Run-out		≤ 0.02mm		
Max. axial load (static)	Pulling	260N	260N	330N
	Pushing	700N	1100N	1400N
Port Size		M3		M5

XSM Series Semi-Rotary Cylinder



XSM25-270-P-V

Ordering Code

XSM	T	8	—	90	—	P	—	A	—	□	□

Series
Semi-rotary Cylinder

Design Type
Blank:Standrad
T: Tandem, vane

Size
6mm
8mm
10mm

Nominal Swivel Angle
90:90°
180:180°
200:200°
240:240°

Cushioning
P:Elastic cushioning rings /Plater on Both Sides

Position Sensing
Blank:None
A:For proximity sensor

Adjustable Swivel Angle
Blank:Fixed swivel angle
FF:Adjustable swivel angle

Shaft
Blank:Spigot shaft
FW:Flanged shaft

Specifcation

Size(mm)		6	8	10
Operating Medium		Compressed air		
Operating Pressure	XSM	0.35~0.8MPa	0.35~0.8MPa	0.25~0.8MPa
	XSM-T	0.4~0.8MPa	0.4~0.8MPa	0.35~0.8MPa
Ambient Temperature		0~60℃		
Storage Temperature		20℃		
Cushioning		Elastic cushioning rings/plates at both ends		
Swivel Angle	XSM	90° or 180°	90° or 180°	90°, 180° or 240°
	XSM-...-FF	0~180°		0~200°
Max. Swivel Frequency At 0.6 Mpa		3Hz		3Hz (at 240°: 2 Hz)
Cushioning Angle		0.5°		
Air Consumption At Swivel Angle Of 90° And 0.6 Mpa	XSM	0.6cm³	0.7cm³	5.5cm³
	XSM-T	1.2cm³	1.4cm³	11cm³
Port Size		M3		

XRVS Series Semi-Rotary Cylinder



XRVS25-270-P

Ordering Code

XRVS	12	—	180	—	P

Series
Semi-rotary Cylinder,double-acting

Bore Size
6mm~40mm

Nominal Swivel Sngle
90:90°
180:180°
270:270°

Cushioning
P:Elastic cushioning rings/plates on both sides

Specifcation

Size(mm)		6	8	12	16	25	32	40
Operating Medium		Compressed Air						
Operating Pressure		0.35~0.8mpa		0.25~0.8mpa		0.2~0.8mpa		
Ambient Temperature		0~60℃						
Storage Temperature		20℃						
Cushioning		Elastic Cushioning At Both Ends						
Swivel Angle		90°or180°		90°or 180°or 270°				
Cushioning Angle		0.5°						
Repetition Accuracy		1°						
Max. Swivel Frequency At 0.6 Mpa	Swivel Angle 90°, 180°	3Hz						
	Swivel Angle 270°	-		2Hz				
Port Size		M3		M5			G1/8"	

XSR Series Semi-Rotary Cylinder



XSRL16-180-P-FW

Ordering Code

XSR	16	—	180	—	P	—	FW

Series
XSR:Semi-rotary Cylinder
XSRL:Semi-rotary Cylinder

Bore Size
10~40mm

Nominal Swivel Angle
180:180°

Cushioning
P:Elastic cushioning ringds/plates on both sides

Shaft
Blank:Spigot shaft
FW:Flanged shaft

Specifcation

Size(mm)	10	12	16	25	32	40
Operating Medium	Compressed air					
Operating Pressure	0.25~0.8MPa	0.2~0.8MPa		0.15~0.8MPa		
Temperature Range	–10~60℃					
Type Of Mounting	With through-hole					
	Via accessories					
Mounting Position	Optional					
Max. Swivel Angle	0 ~181 °		0~184 °			
Port Size	M3		M5		G1/8"	

A

XHPS Series Parallel Air Gripper



XHPS2-16-A

Ordering Code

XHPS	2	—	10	A	—	□
Series	**Fingle Quantity**		**Bore Size**	**Position Sensing**		**Gripping Force Backup**
Parallel Gripper	2 PCS		6mm~35mm	A:For Proximity Sensor		Blank:None NC:N/O Contact NO:Opening

Specifcation

Size(mm)		6	10	16	20	25	35
Operating Medium		Compressed Air					
Mode Of Operation		Double-Acting					
Max. Operating Pressure		0.8MPa					
Min. Operating Pressure	XHPS-...-A	0.2MPa					
	XHPS-...-A-N	-	0.4MPa				
Ambient Temperature		5~60℃					
Gripper Function		Parallel					
Guide		Plain-Bearing Guide					
Gripping Force Backup		-	NO, NC	NO, NC	NO, NC	NO, NC	NO, NC
Stroke Per Gripper Jaw		2	3	5	6.5	7.5	12.5
Repetition Accuracy		≤0.02mm					
Max. Interchangeability		≤ ±0.2mm					
Max. Operating Frequency		4Hz		3Hz		2Hz	
Rotational Symmetry		< Φ0.2mm					
Port Size		M3		M5		G1/8"	

XHRS Series Radial Gripper



XHRS2-25-A

Ordering Code

XHRS	2	—	16	A	—	□
Series	**Fingle Quantity**		**Bore Size**	**Position Sensing**		**Gripping Force Backup**
Radial Gripper	2 PCS		10mm~40mm	A:For Proximity Sensor		Blank:None NC:N/O Contact

Specifcation

Size(mm)		10	16	25	32	40
Operating Medium		Compressed Air				
Mode Of Operation		Double-Acting				
Max. Operating Pressure		0.8MPa				
Min. Operating Pressure	XHRS-...-A	0.2MPa				
	XHRS-...-A-NC	-	0.4mpa			
Ambient Temperature		5~60℃				
Max. Opening Angle		180°				
Repetition Accuracy		≤ 0.1mm				
Max. Interchangeability		≤±0.2mm				
Max. Operating Frequency		4Hz		3Hz		2Hz
Rotational Symmetry		< Φ0.2mm				
Port Size		M3		M5		G1/8"

A

XGPD Series Sealed Parallel Gripper



XGPD2-25-A

Ordering Code

XGPD	2	—	20	A	—	□
Series	**Fingle Quantity**		**Bore Size**	**Position Sensing**		**Gripping Force Backup**
Sealed Parallel gripper	2 PCS		16mm~80mm	A:For Proximity Sensor		Blank:None NC:N/O Contact NO:Opening

Specifcation

Size(mm)		10	20	25	35	40	50	63	80
Operating Medium		Compressed Air							
Mode Of Operation		Double-Acting							
Max. Operating Pressure		0.8MPa							
Min. Operating Pressure	XGPD-...-A	0.3MPa							
	XGPD-...-A-G	0.4MPa							
Operating Pressure For Sealing Air		0~0.5MPa							
Ambient Temperature		5-60℃							
Repetition Accuracy		≤0.03mm	≤0.04mm				≤0.05mm		
Max. Interchangeability		≤±0.2mm							
Max. Operating Frequency		≤3Hz					≤2Hz		
Rotational Symmetry		<Φ0.2mm							
Port Size		M5					G1/8"		G1/4"
Port Size, Sealing Air		M3			M5				
Port Size, Lubrication Nipple		M3			M5				

XGPT-B Series Heavy-Duty Parallel Gripper



XGPT35-A-B

Ordering Code

XGPT	20	×	A	—	B	—	F	□
Series	**Bore Size**		**Position Sensing**		**Generation**		**Gripping Force**	**Gripping Force Backup**
Heavy-Duty Parallel Gripper	16mm~80mm		A:For Proximity Sensor		B:B Series		Blank:Standard F:High	NC:N/O Contact NO:Opening

Specifcation

Size(mm)		16	20	25	35	40	50	63	80
Operating Medium		Compressed Air							
Mode Of Operation		Double-Acting							
Max. Operating Pressure		0.8MPa							
Min. Operating Pressure	XGPT-...-A-B	0.3MPa							
	XGPT-...-A-B-G	0.4MPa							
Operating Pressure For Sealing Air		0~0.05MPa							
Ambient Temperature		5~60℃							
Repetition Accuracy		±0.01mm	±0.02mm				±0.025mm		
Max. Interchangeability		0.2mm							
Max. Operating Frequency		3Hz					2Hz		
Rotational Symmetry		<Φ0.2mm							
Port Size		M5					G1/8"		G1/4"
Port Size, Sealing Air		M3			M5				

A

XRB Series Servo Electric Cylinder





Ordering Code

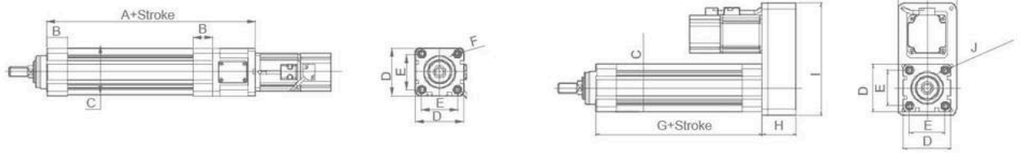
XRB — 50 — L10 — S100 — □ — XRW — XRZX — P100W — B

Series Code	Bore	Lead	Stroke	Installation	Front Connector	Input	Servo Motor Type	Brake
	32mm 50mm 63mm 80mm 100mm 120mm		50~500mm	XRQD:Front Flange	XRW: External Thread XRN: Internal Thread XRCX: Fork Pin End XRQT: Hinged Ball Head	XRZX:Linear Mounting Flange P10：Parallel Mounting 1:1 P20: Parallel Mounting 2:1	M: Mitsubishi YF: Yaskawa P: Panaspnic F: Fuji T: Delta	

Specifcation

Model	XRB32		XRB50			XRB63			XRB80			XRB100			XRB120		
Screw Diameter (mm)	Φ8		Φ16			Φ20			Φ25			Φ32			Φ40		
Screw Lead (mm)	1	2	5	10	20	5	10	20	5	10	25	5	10	20	5	10	20
Rated Dynamic Load (Kgf)	160	85	1112	839	554	1484	1516	764	1650	1638	1232	2730	4680	1901	2990	5170	3959
Maximun Input Speed (r/min)	3000											2000					
Maximun Operating Speed (r/min)	50	100	250	500	1000	250	500	1000	250	500	1000	167	333	666	166	333	666
Adapted Motor power (W)	100		400			400/750			750/1000			1000/1500			1000/1500		
Maximun Output (Kgf)	20		100			300			800			3000			5000		
Repeated Precision (mm)	±0.02																
Stroke Range (mm)	50~300 (Special stroke can be customized)		50~600 (Special stroke can be customized)									50~500 (Special stroke can be customized)					

Overall Dimensions



Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K
32	153.5	-	47	47	32.5	4-M6	100.5	38	109.5	4-M6	-
50	218	30	63	64	46.5	4-M8 Dep18	158	40	143.5	4-M8 Dep18	82
63	231	32	74	76	56.57	4-M8 Dep18	163	54	178	4-M8 Dep18	92
80	284	33	92	93	72	4-M8 Dep18	197	93	213.4	4-M8 Dep18	112
100	332	37	109	110	89	4-M10 Dep18	214	85	326.5	4-M10 Dep18	-
120	381	-	140	140	110	4-M14	237	75	330	4-M14	-

A

X Series Ball-Screw Type Electric Cylinder





Ordering Code

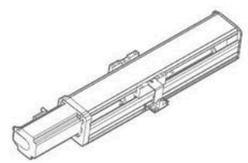
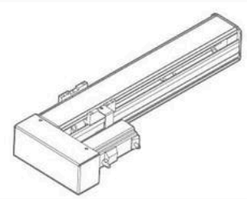
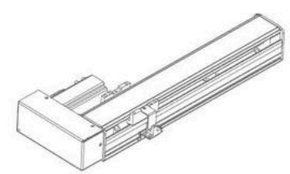
X50D — L10 — S800 — M2 — M — 100W — B

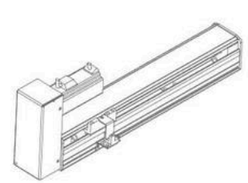
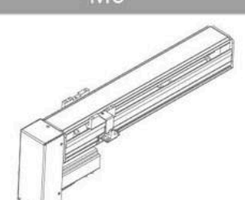
Model	Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
X50D X80D X100S X100D X136D X168D X202D		100~1450mm	M1: Motor inside position (Available for 100,168,202) M2: Motor outside position M3: Motor outside,righward position M4: Motor outside,leftward position M5: Motor outside,upper position M6: Motor ousided,lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji B: Belta	100~750W	

Specifcation

Model		X50D	X80D			X100S/X100D			X136D			X168D			X202D				
AC Servo motor output (W)		100W				400W			200W			400W			750W				
Repeatability (mm)		±0.02																	
B.S (Φ)		12	12	16	16	16	16	16	16	16	16	16	16	25	25	25	32	32	32	32
Lead (mm)		5	10	5	10	16	20	5	10	16	20	5	10	16	20	5	10	20	25	32
Maximun speed (mm/sex)		250	500	250	500	800	1000	250	500	800	1000	250	500	800	1000	250	500	1000	1250	1600
Maximun payload (kg)	Level use (H)	9	5.5	35	25	15	10	50	35	25	20	85	70	65	35	110	80	75	65	120	100	85	75	65
	Vertical use (V)	2.5	1.2	13	9	5	4	15	10	8	5	25	20	15	8	40	35	15	11	55	45	25	23	20
Rated thrust (N)		70	35	300	150	85	75	300	150	85	75	640	320	225	160	945	480	240	200	2050	1025	560	420	350
Stroke (mm)		100~800: 50(Interval)		100~1050: 50(Interval)												100~1450: 50(Interval)				

Motor Direction

M2	M3	M4
		

M5	M6
	

A

XC Series Ball-Screw Type Electric Cylinder(Clean Room)





Ordering Code

XC50D — L10 — S800 — M2 — M — 100W — B

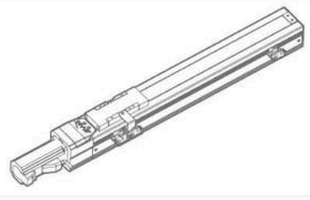
Model	Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
XC50D XC60D XC100D XC136D XC168D		100~1250mm	M1: Motor inside position (Available for 136) M2: Motor outside position M3: Motor outside,righward position M4: Motor outside,leftward position M5: Motor outside,upper position M6: Motor ousided,lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji D: Delta	100W~400W	

Specifcation

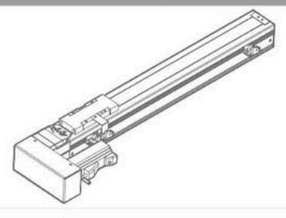
Model		XC50D	XC60D		XC100D				XC136D				XC168D			
AC Servo motor output (W)		100W							200W				400W			
Repeatability (mm)		±0.02														
B.S (Φ)		12	12	12	12	16	16	16	16	16	16	16	16	25	20	20	25
Lead (mm)		5	10	5	10	5	10	16	20	5	10	16	20	5	10	20	25
Maximun speed (mm/sex)		250	500	250	500	250	500	800	1000	250	500	800	1000	250	500	800	1250
Maximun payload (kg)	Level use (H)	9	5.5	30	15	50	35	25	20	80	70	65	35	110	80	75	65
	Vertical use (V)	2.5	1.2	9	5	12	10	8	5	25	20	15	8	40	35	15	11
Rated thrust (N)		70	35	250	130	300	150	85	75	640	320	225	160	945	480	240	200
Stroke (mm)		100~800: 50(Interval)			100~1050: 50(Interval)								100~1250: 50(Interval)			

Motor Direction

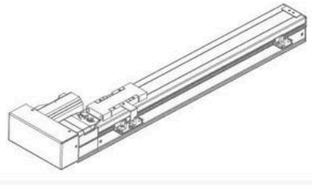
M2



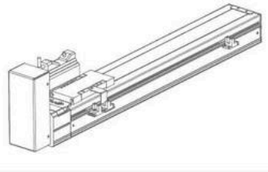
M3



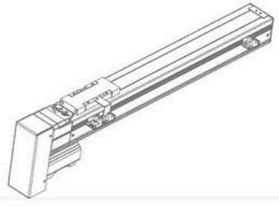
M4



M5



M6



XB Series Belt Type Electric Cylinder(General)



Ordering Code

XB50D — L35 — S500 — B1 — M — 100W — B

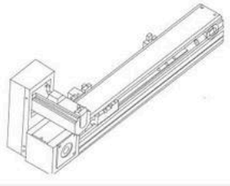
Model	Equivalent to Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
XB50D XB80D XB100S XB100D XB136D XB168D XB202D		100~3050mm	B1: Motor leftward,upper position B2: Motor rightward,upper position B3: Motor leftward,horizontal position B4: Motor rightward,horizontal position B5: Motor leftward,lower position B6: Motor rightward,lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji B: Belta	100~400W	

Specifcation

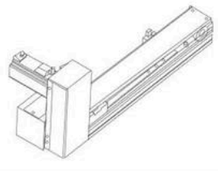
Model	XB50D	XB80D		XB100S		XB100D		XB136D		XB168D		XB202D
AC Servo motor output (W)	100W	100W	200W	100W	200W	100W	200W	200W		400W		
Repeatability (mm)	±0.04											
Equivalent to lead	35	28		35		28		40		76		
Maximun speed (mm/sec)	1718	1400		1600		1400		32		45		
Maximun payload (kg)	8	20	28	10	15	20	25	2000				
Stroke (mm)	100~800: 50(Interval)	100~1500: 50(Interval)		150~1850: 50(Interval)				150~3050: 100(Interval)				

Motor Direction

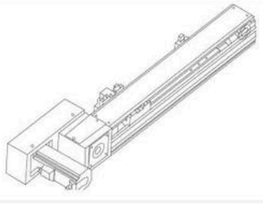
B1



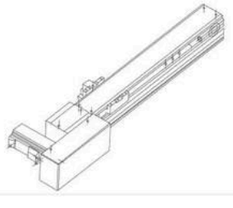
B2



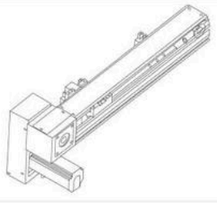
B3



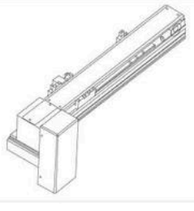
B4



B5



B6

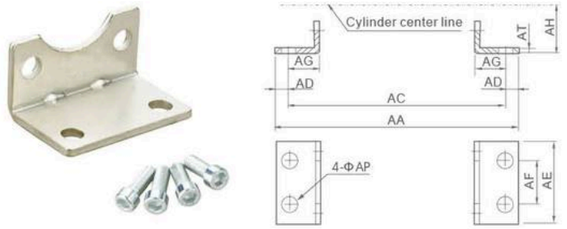




Cylinder Accessories

Cylinder accessories include the mounting parts to fix the air cylinder, made by aluminum or steel. They are available for Standard Cylinders and Mini Cylinders. Magnetism Switch are used as sensor which connected with PLC, to recognize the position of piston inside of air cylinder.

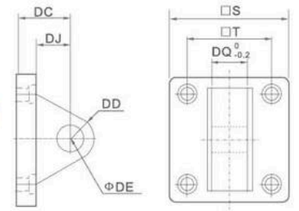
ISO Standard Cylinder Accessories



ISO-LB Type Foot Bracket

Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	266	290	340	380
AC	142	161	170	185	210	228	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	47	53	65	75	95	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	45	45	60	70
AH	32	36	45	50	63	71	90	115	135
AP	7	9	9	9	12	14.5	16.5	18.5	24
AT	3	3	3	3	4	4	6	6	9

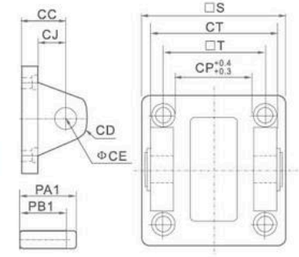




ISO-CA Type Single Earring

Symbol/Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
DE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	36
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7



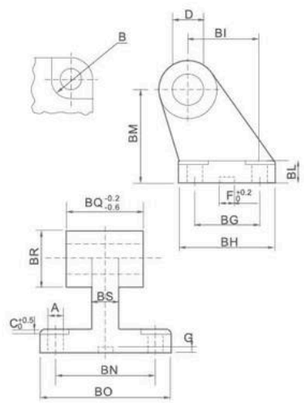


ISO-CB+Pin Type Double Earring

Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	170.5
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175

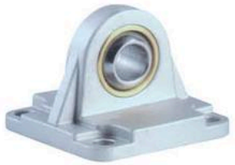


ISO-SDB Type

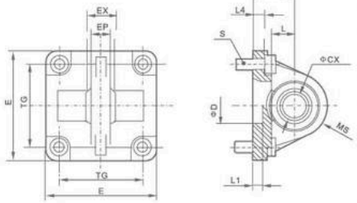


Symbol/Bore	32	40	50	63	80	100	125
A	6.6	6.6	9	9	11	11	14
B	11	11	15	15	18	18	20
BG	18	22	30	35	40	50	60
BH	31	35	45	50	60	70	90
BI	21	24	33	37	47	55	70
BL	8	10	12	14	14	17	20
BM	32	36	45	50	63	71	90
BN	38	41	50	52	66	76	94
BO	51	54	65	67	86	96	124
BS	10	15	16	16	20	20	30
BR	20	22	26	30	30	38	45
C	1.6	1.6	1.6	1.6	2.5	2.5	3.2
D	10	12	12	16	16	20	25
F	10.5	10.5	10.5	10.5	10.5	10.5	10.5
G	3	3	3	3	3	3	3
BQ	26	28	32	40	50	60	70

ISO Standard Cylinder Accessories



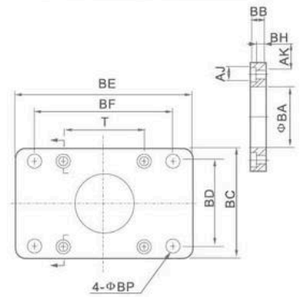
ISO-RB Type



Symbol/Bore	32	40	50	63	80	100
TG	32.5	38	46.5	56.5	72	89
ΦCX	10	12	16	16	20	20
DL	22	25	27	32	36	41
L	12	15	15	20	20	25
EX	14	16	21	21	25	25
EP	10.5	12	15	15	18	18
S	M6×20	M6×20	M8×20	M8×20	M10×25	M10×25
L4	5.5	5.5	6.5	6.5	10	10
D	30	35	40	45	45	55
L1	7	7	7	7	9	9
E	45	52	65	75	95	115
MS	16	18	21	23	28	30



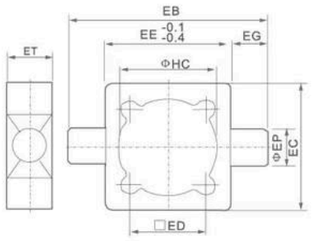
ISO-FA/FB Type Flange



Symbol/Bore	32	40	50	63	80	100	125	160	200
AJ	11	11	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5	65.5	75.5
BB	10	10	12	12	16	16	20	20	25
BC	47	53	65	75	95	115	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	4	4	4	6	6	6	8	8	12
BP	7	9	9	9	12.5	14.5	16.5	18.5	24
T	32.5	38	46.5	56.5	72	89	110	140	175



ISO-SI-TC Type

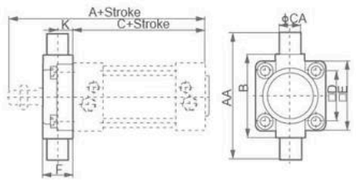


Symbol/Bore	32	40	50	63	80	100
EB	100	113	125	140	160	182
EC	53	63	75	90	105	128
ED	32.5	38	46.5	56.5	72	89
EE	52	63	75	90	110	128
EG	25	25	25	25	25	25
EP	12	16	16	20	20	25
ET	20	22	22	28	28	34
HC	37	45	55	68	87	107.5

NEW!



ISO-F-TC Type



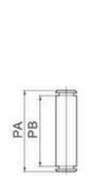
Symbol/Bore	32	40	50	63	80	100	125	160	200
A	142	94	74	50	12	32.5	46	19	10
C	159	105	95	63	16	38	52	21	10
AA	175	106	107	75	16	46.5	64	26	12
B	190	121	130	90	20	56.5	74	28	12
CA	214	128	150	110	20	72	94	31	16
D	229	138	182	132	25	89	114	35	16
E	279	160	210	160	25	110	139	43	20
F	332	180	264	200	32	140	179	56	20
K	347	180	314	250	32	175	218	64	20

ISO Standard Cylinder Accessories

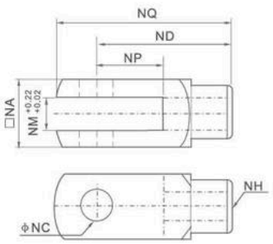
ISO-Y Joint

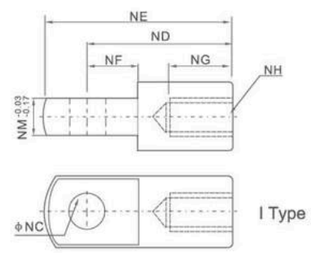


ISO-Y+Pin ISO-Y+Clip



Y Type





I Type

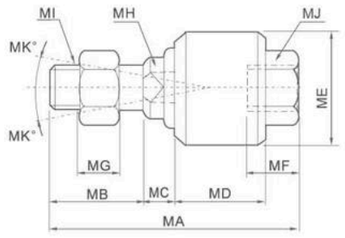


ISO-I Joint

Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	55	70	70
NC	10	12	16	16	20	20	30	35	35
ND	40	48	64	64	80	80	110	144	144
NE	52	67	89	89	112	112	155	201	201
NF	15	24	32	32	40	40	50	50	55
NG	20	20	23	23	30	30	56	72	72
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2.0	M36×2.0	M36×2.0
NM	10	12	16	16	20	20	30	35	35
NP	20	24	32	32	40	40	54	72	72
NQ	52	62	83	83	105	105	148	191	191
PA	26.2	32.8	39.3	39.3	53.3	53.3	64	80	80
PB	20	26.5	33	33	45	45	55.6	70.6	70.6



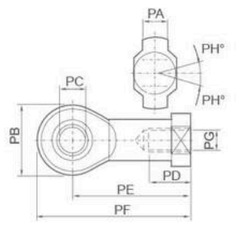
ISO-UJ Type Float Joint



Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MK
32	58	22	7	21	26	11.5	7	10	M10×1.25	12
40	58	22	8	21	28	11.5	8	12	M12×1.25	12
50	90	27	10	41	44.5	20	10	17	M16×1.5	7
63	90	27	10	41	44.5	20	10	17	M16×1.5	7
80	102	29	13	46	53	24	13	22	M20×1.5	10
100	102	29	13	46	53	24	13	22	M20×1.5	10
125	147	54	13	64	62	39	14	30	M27×2.0	9
160	147	43	23	58	88	35	13.5	36	M36×2.0	15
200	147	43	23	58	88	35	13.5	36	M36×2.0	15



ISO-PHS Type Fish Eye Joint



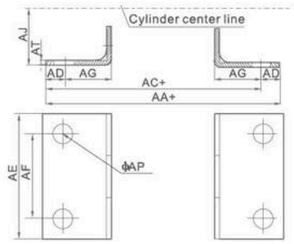
Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	11	26	10	21	43	56	M10×1.25	13
40	12	30	12	24	50	65	M12×1.25	13
50	15	38	16	33	64	83	M16×1.5	15
63	15	38	16	33	64	83	M16×1.5	15
80	18	46	20	40	77	100	M20×1.5	15
100	18	46	20	40	77	100	M20×1.5	15
125	37	70	30	51	110	145	M27×2.0	15
160	43	80	35	56	125	165	M36×2.0	16
200	43	80	35	56	125	165	M36×2.0	16

A

Standard Cylinder Accessories



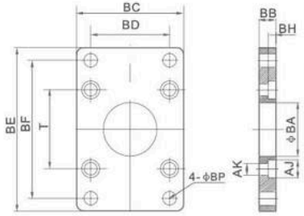
LB Type Foot Bracket



Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	199	210	249	328	380
AC	134	140	149	158	167	174	213	288	320
AD	9.5	14.5	12	13	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	24
AT	3	3	3	3	4	4	8	8	10



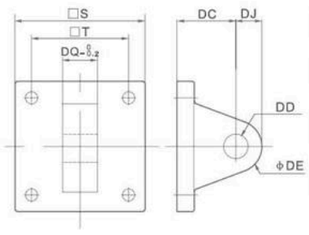
FA/FB Type Flange



Symbol/Bore	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	16	20	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	10.5	12.5	16.5
AJ	10.5	10.5	13.5	13.5	5	5	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	11	11	16	18	22
T	33	37	47	56	70	84	110	140	175



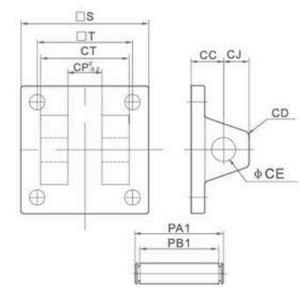
CA Type Single Earring



Symbol/Bore	32	40	50	63	80	100	125	160	200
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175
DC	34	34	34	34	48	48	50	55	60
DD	14	14	14	14	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90



CB +Pin Type Double Earring



Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	2	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	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	94	140	180	220
T	33	37	47	56	70	70	110	140	175

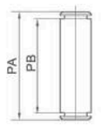
■ Note:CA and CB From 32-100,we can supply two kinds of materials products:1.Iron 2. Aluminum. When placing order, please indicate product material. From 125-200 are all iron.

A

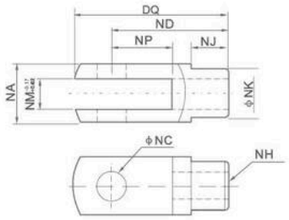
Standard Cylinder Accessories

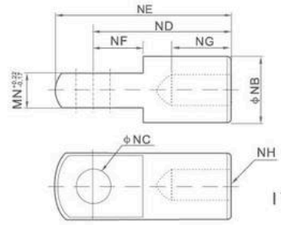


Y+Pin Type Joint



Y Type





I Type

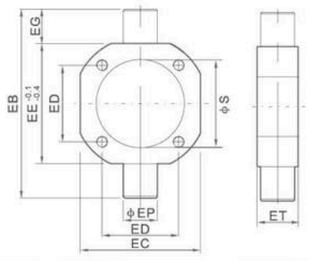


I Type Joint

Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	64	80	80
NB	20	24	32	32	40	40	45	54	54
NC	10	12	16	16	20	20	20	30	30
ND	40	48	64	64	80	80	102	120	120
NE	52	67	89	89	112	112	121	130	130
NF	15	24	32	32	40	40	52	35	35
NG	20	20	23	23	30	30	56	50	50
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2	M36×2	M36×2
NJ	12	20	22	22	30	30	27	40	40
NK	18	23	30	30	39	39	38	54	54
NM	10	12	16	16	20	20	32	40	40
MP	20	24	32	32	40	40	35	35	35
NQ	52	62	83	83	105	105	122	150	150
PA	25	32.8	39.3	39.3	53.3	53.3	74	91	91
PB	19.5	26.5	33	33	45	45	63.5	81	81



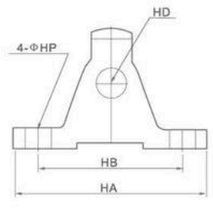
TC Type

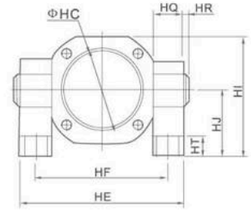


Symbol/Bore	32	40	50	63	80	100	125	160	200
EB	88.5	113	126	138	164	182	210	264	320
EC	52	63	76	88	114	132	160	200	248
ED	33	37	47	56	70	84	110	140	175
EE	55	63	76	88	114	132	160	200	248
EG	16.75	25	25	25	25	25	25	32	36
EP	16	25	25	25	25	25	25	32	32
ET	30	30	30	30	30	35	35	41	49
S	37.5	45.5	56.5	68.5	87.5	107.5	134.5	172.5	219.5



TC-M Type



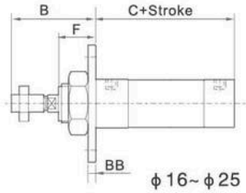


Symbol/Bore	HA	HB	HC	HD	HE	HF	HI	HJ	HQ	HR	HT	HP
40	110	80	45.5	22	109	86	81.5	50	23	2	12	12
50	110	80	55.5	22	122	99	88	50	23	2	12	12
63	110	80	68.5	22	134	111	94	50	23	2	12	12
80	120	85	87.5	22	160	137	127	70	23	2	14	14
100	120	85	107.5	22	178	155	136	70	23	2	14	14

Mini Cylinder Accessories

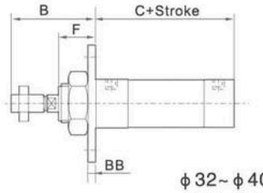


M-FA Type Flange

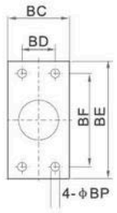


ϕ16~ϕ25





ϕ32~ϕ40





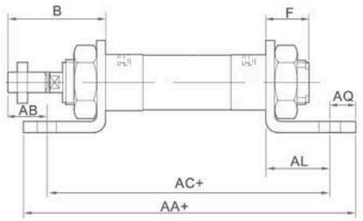
M-FA-A Type

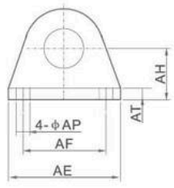
Symbol / Bore	B	C		C(MSA Series)		C(MSAL Series)		BB	BC	BD	BE	BF	BP	F
		MA Series	MAL Series	0-50	51-100	0-50	51-100							
16	38	60	-	60	85	-	-	3	26	-	52	40	5.5	16
20	40	76	70	76	101	70	95	4	33	-	64	50	6.5	12
25	44	76	70	76	101	70	95	4	33	-	64	50	6.5	14
32	44	76	70	76	101	70	95	4	47	33	72	58	6.5	14
40	46	76	92	76	101	92	117	4	50	36	84	70	6.5	14

■ Our company can also provide this used for mini cylinder flange from 16~25, if you need, pls add A after all ordering code, like M-FA-20-A



M-LB Type Foot Bracket

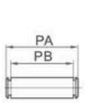


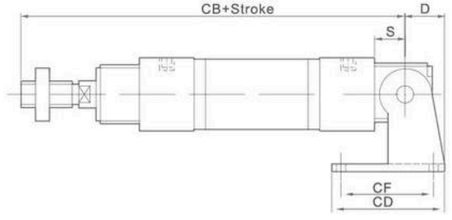


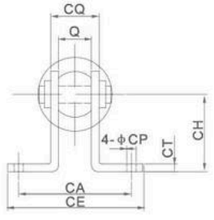
Symbol / Bore	B	F	AA (MA Series)	AA (MAL Series)	AA(MSA Series)		AA(MSAL Series)		AB	AC (MA Series)	AC (MAL Series)	AC(MSA Series)		AC(MSAL Series)		AE	AF	AL	AQ	AP	AT	AH
					0-50	51-100	0-50	51-100				0-50	51-100	0-50	51-100							
16	38	16	98	-	98	123	-	-	25	86	-	86	111	-	-	44	32	13	6	5.5	3	20
20	40	12	122	116	122	147	116	141	25	106	100	106	131	100	125	54	40	15	8	6.5	3	25
25	44	14	122	116	122	147	116	141	29	106	100	106	131	100	125	54	40	15	8	6.5	3	25
32	44	14	142	136	142	167	136	161	19	126	120	126	151	120	145	59	45	25	8	6.5	4	32
40	46	14	142	158	142	167	158	183	21	126	142	126	151	142	167	64	50	25	8	6.5	4.5	36



M-SDB Type Bracket







Symbol / Bore	D	S	Q	CA	AA(MSA Series)	CB(MAL Series)	CB (MSA Series)		CB (MSAL Series)		CD	CE	CF	CH	CT	CP	CQ	PA	PB
							0-50	51-100	0-50	51-100									
16	16	9	12	-	107	-	107	132	-	-	23	-	12	20	3	5.5	16.5	21	17
20	21	12	16	51	128	122	128	153	122	147	48	67	32	32	3	6.5	22	27	22.5
25	21	12	16	51	132	126	132	157	126	151	48	67	32	32	3	6.5	22	27	22.5
32	27	15	16	51	135	129	135	160	129	154	52	67	36	36	3	6.5	24	30	24.5
40	27	15	20	55	137	153	137	162	153	178	56	71	40	40	3	6.5	28	34	28.5

Mini Cylinder Accessories

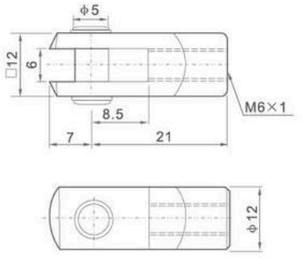
M-Y Joint

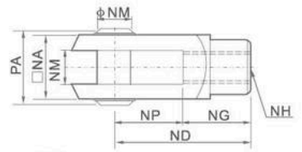


M-Y+Pin M-Y+Clip



M-I Joint



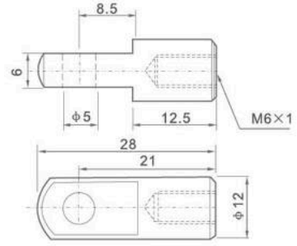


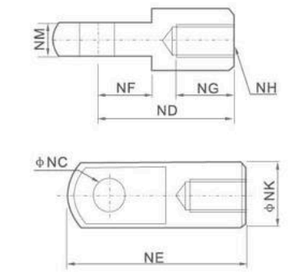


ϕ16



ϕ20~ϕ40

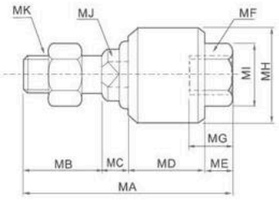




Symbol/Bore	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
20	16	8	30	40	11	15	M8×1.25	10	16	14	8	8	15	40	21	16.5
25	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
32	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
40	25.4	10	45	57	15	25	M12×1.25	15	24	23	14	10	20	57	31	26



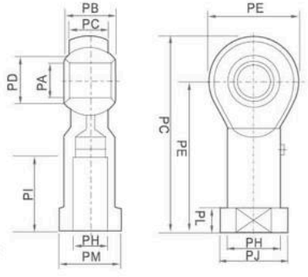
M-UJ Type Float Joint



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



M-PHS Type Fish Eye Joint

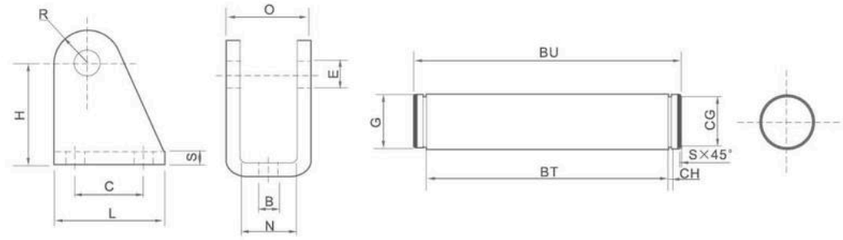


Symbol/ Bore	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM
20	8	12	9	10.4	22	36	47	M8×1.25	17	16	12.5	5	14
25	10	14	11	12.9	26	43	56	M10×1.25	21	19	15	6.5	17
32	10	14	11	12.9	26	43	56	M10×1.25	21	19	15	6.5	17
40	12	16	12	15.4	30	50	65	M12×1.25	24	22	17.5	6.5	19

Mini Cylinder Accessories



M-U+Pin



Symbol/Bore	B	E	C	H	L	N	O	R	S	G	BT	CG	CH	BU	S
8/10	4.5	4	12.5	24	20	8.1	13	5	2.5	4	14	2.5	0.5	17	0.2
12/16	5.5	6	15	27	25	13	18	7	2.5	6	19	4	0.8	24	0.4
20/25	6.6	8	20	29.5	32	16.1	24	10	4	8	25.2	5	0.9	29.5	0.5

Special cylinder accessories



- Our company can customize all kinds of non-standard cylinder accessories according to your drawing or sample.

Seal Kits for Pneumatic Cylinder

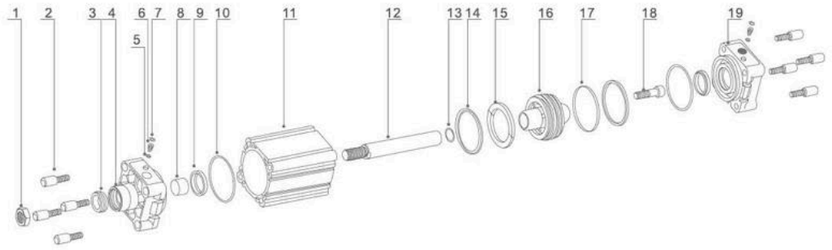
Product	Model	Cylinder bore size	Temperature
 Seal kits-DNC	Seal kits-DNC	Φ32~125	-5~75℃
	Seal kits-DNG	Φ160~320	
	Seal kits-SI	Φ32~200	
	Seal kits-SC	Φ32~200	
	Seal kits-MA	Φ10~40	
	Seal kits-MAL	Φ16~40	
	Seal kits-SDA	Φ12~100	
	Seal kits-ADVU	Φ16~80	
	Seal kits-ADN	Φ12~63	

Product	Model	Cylinder bore size	Temperature
 Seal kits-DNC-Viton	Seal kits-DNC-Viton	Φ32~125	-10~150℃
	Seal kits-DNG-Viton	Φ160~320	
	Seal kits-SI-Viton	Φ32~200	
	Seal kits-SC-Viton	Φ32~200	
	Seal kits-MA-Viton	Φ10~40	
	Seal kits-MAL-Viton	Φ16~40	
	Seal kits-SDA-Viton	Φ12~100	
	Seal kits-ADVU-Viton	Φ16~80	

Assembly Kits for Pneumatic Cylinder

DNC Series Cylinder Kits

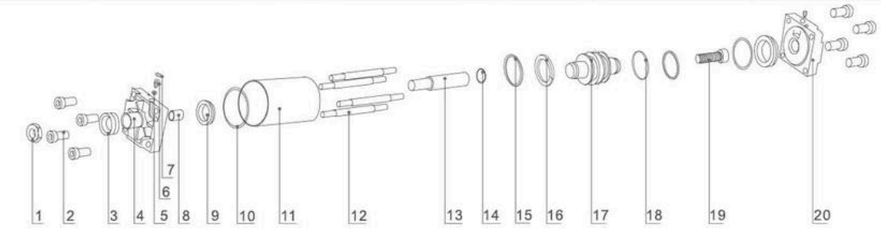
Product	Model/ Specification	Part name	Material	Part name	Material
	**DNC Kits** (ISO15552) Bore size: Φ32,40, 50,63,80, 100,125	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

DNG Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	**DNG Kits** (ISO15552) Bore size: Φ160,200, 250,320	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		

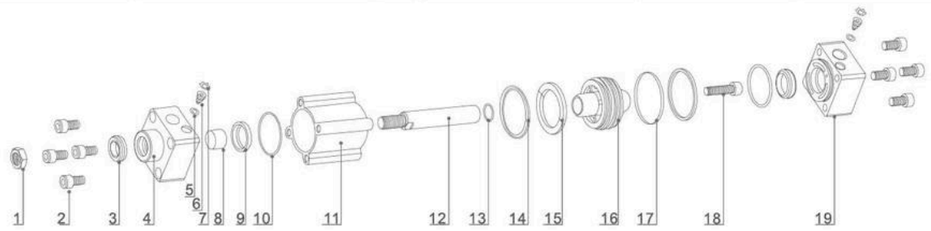


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Tierod(Without)	17	Piston
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Wear ring
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Hex Socket Screw
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Magnet(optional)	20	Back cover

Assembly Kits for Pneumatic Cylinder

SI Series Cylinder Kits

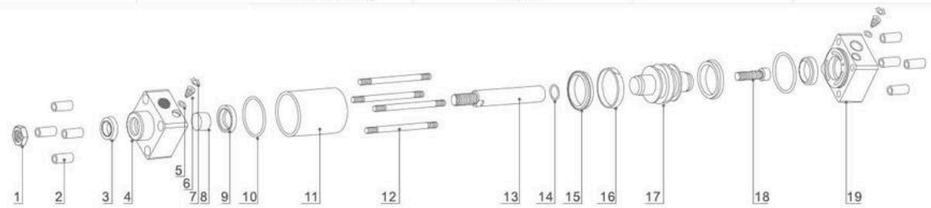
Product	Model/ Specification	Part name	Material	Part name	Material
	**SI Kits** (ISO6431) Bore size: Φ32,40,50, 63,80,100,125, 160,200	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

SC Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	**SC Kits** Bore size: Φ32,40,50, 63,80,100,125, 160,200,	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Tie-rod nut	Carbon steel
		Cover O-ring	NBR		

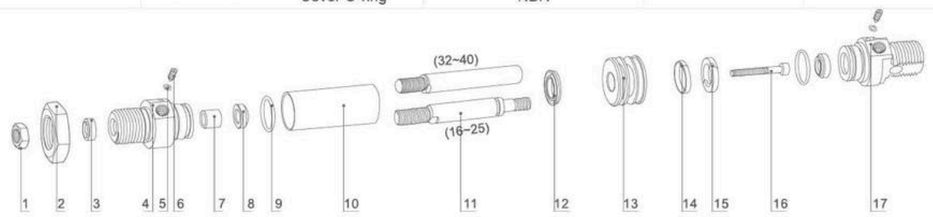


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Piston rod(Without)	17	Piston
2	Tie-rod nut	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Tie rod(Without)	16	Wear ring		

Assembly Kits for Pneumatic Cylinder

MA/MA6432 Series Cylinder Kits

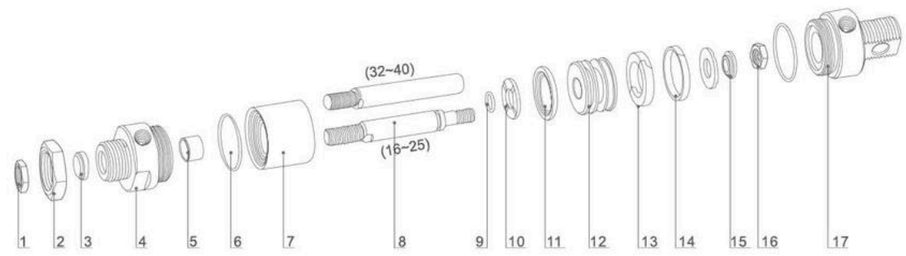
Product	Model/ Specification	Part name	Material	Part name	Material
	**MA Kits** Bore size: Φ16,20,25,32,40 **MA6432 Kits** (ISO6432) Bore size: Φ8,10,12, 16,20,25, 32,40,50,63	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Stainless Steel	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR		
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	O-ring	9	Cover O-ring	13	Piston	17	Back cover
2	Cover Nut	6	Adjustable screw	10	Barrel(Without)	14	Wear ring		
3	Front Cover seal	7	Self Lubricating bearing	11	Piston rod(Without)	15	Magnet(optional)		
4	Front cover	8	Cushion ring	12	Piston seal	16	Hexagon Screw		

MAL Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	**MAL Kits** Bore size: Φ16,20, 25,32,40	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Anti-bump cushion	NBR	Hexagon screw	Carbon steel
		Front Cover seal	NBR	Nut	Carbon steel
		Cover O-ring	NBR	Muffler	Cu



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	Self Lubricating bearing	9	Rod O-ring	13	Magnet(optional)	17	Back cover
2	Cover Nut	6	Cover O-ring	10	Anti-bump cushion	14	Wear ring		
3	Front Cover seal	7	Barrel(Without)	11	Pistion seal	15	Impact gasket		
4	Front cover	8	Piston rod(Without)	12	Pistion	16	Nut		

Assembly Kits for Pneumatic Cylinder

SDA Series Cylinder Kits

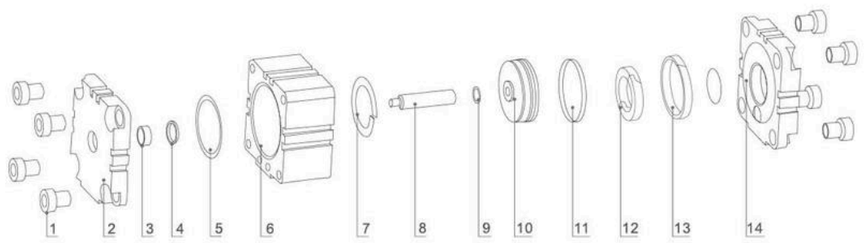
Product	Model/ Specification	Part name	Material	Part name	Material
	**SDA Kits** Bore size: Φ12,16,20, 25,32,40, 50,63,80,100	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston	Aluminum alloy	Magnet(optional)	RbFeb
		Piston rod(Without)	S45C hard chrome carbon steel	C type buckle	Steel
		Barrel(Without)	Hard anodized aluminum	Nut	Carbon steel
		Anti-bump cushion	NBR	Muffler	Cu
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	C type buckle	4	Front cover	7	Piston rod(Without)	10	Anti-bump cushion	13	Cover O-ring
2	Front cover seal	5	Self Lubricating bearing	8	Piston	11	Barrel(Without)	14	C type buckle
3	Cover O-ring	6	Anti-bump cushion	9	Piston Seal	12	Back cover		

ADVU Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	**ADVU Kits** (ISO6431) Bore size: Φ16,20, 25,32,40,50, 63,80	Front cover	Aluminum alloy	Cover O-ring	NBR
		Back cover	Aluminum alloy	Piston seal	NBR
		Piston	Aluminum alloy	Wear ring	PA66
		Piston rod(Without)	S45C hard chrome carbon steel	Self lubricating bearing	PTFE+Brass
		Barrel(Without)	Hard anodized aluminum	Magnet(optional)	RbFeb
		Front Cover seal	NBR	Nut	Carbon steel
		Cushion seal	NBR	Profile bolt	Carbon steel
		Piston rod O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Profile bolt	5	Front Cover seal	9	Rod O-ring	13	Wear ring
2	Front cover	6	Barrel(Without)	10	Piston	14	Back cover
3	Self Lubricating bearing	7	Backup ring	11	Piston seal		
4	Cushion seal	8	Piston rod(Without)	12	Magnet(optional)		

Assembly Kits for Pneumatic Cylinder

Product	Model/Specification	Product
	**MB Kits** (Japan Standard) Bore size: Φ32,40,50, 63,80,100	**ADN Kits** (ISO 21287)  Bore size: Φ12,16,20,25,32,40,50,63
	**CQ2 Kits** (Japan Standard) Bore size: Φ12,16,20,25,32,40,50, 63,80,100	
	**XENG Kits** (ISO 15552) Bore size:Φ32,40,50, 63,80,100	 **XEN Kits** (ISO 6432) Bore size:Φ8,10,12,16,20,25



Inch Cylinder Kits

Bore size:4",6",8",10"

- Our company have R&D departement, can research develop and produce all kinds of cylinders with advanced technology and sufficient professional experience.

- Apart from the regular pneumatic cylinder assembly kits,our company also can supply other type cylinder assembly kits. We have develop some inch size assembly kits,for example 4", 6",8",10" etc and other size.
  If you have new requirement and new products need to design and develop,please don't hesistate to contact us,we will try our best to help you.

A

Tube and Piston Rod for Pneumatic Cylinder

Product	Model/Specification	Product
	**DNC** Square Aluminum Tube Bore size:Φ32,40,50, 63,80,100,125	**DNT** Mickey Mouse With Groove Aluminum Tube  Bore size:Φ32,40,50,63,80,100
	**SI** Mickey Mouse Aluminum Tube Bore size:Φ32,40,50, 63,80,100, 125,160,200	
	**DNG,SC,MAL** Round Aluminum Tube Bore size:Φ16,20, 25,32,40,50,63, 80,100,125,160, 200,250,320	**ADN** Aluminum Tube  Bore size:Φ12,16,20,25,32,40,50,63
	**ADVU** Aluminum Tube Bore size:Φ,20, 25,32,40,50,63,80	
	**SDA** Aluminum Tube Bore size:Φ12,16,20,25, 32,40,50,63,80,100 Note:Normally we provide SDA un-oxided aluminum tube, if you need that with oxide, pls be specified, because price is different.	 **CQ2** Aluminum Tube Bore size:Φ12,16,20,25, 32,40,50,63,80,100 Note:Normally we provide CQ2 un-oxided aluminum tube, if you need that with oxide, pls be specified, because price is different.
	**MA,MA6432** Stainless Steel Tube (High precision) Bore size:Φ8,10,12, 16,20,25,32,40,50,63	 **Piston rod** (45# Steel Chrome-plated) Bore size:Φ6,8,10,12,16,20, 25,32,40,45,50,60,70,etc. Note: XCPC can provide different material and diameters piston rodes including stainless steel.

- In addition to the above general sales of pneumatic cylinder aluminum tubes, our company also have some other types of aluminum tubes.
  If you find the complete cylinder on the catalogue, and only need aluminum tubes, please do not hesitate to contact us,we will try our best to help you.

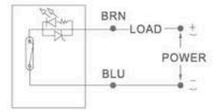
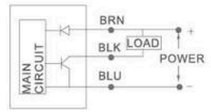
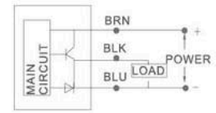
XC-03 Series Magnetism Switch



Features and Applications

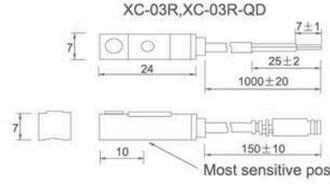
1.Compact design
2.LSU type LED light
3.Anti-vibration application
4.Simple installation
5.BK series metal band together
6.Suitable for many kinds of air cylinder.

Specifcation

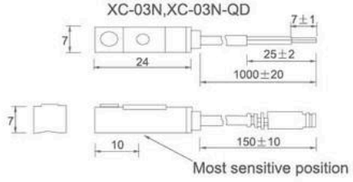
Model	XC-03R	XC-03N	XC-03P
Connect Diagram / Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max @ 24V(Switch Active)	
Voltage drop	3.0V max.	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range		-10~70℃	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	Φ2.8,2C PVC Gray color,oil resistance PVC	Φ2.8,2C PVC Black color,oil resistance PVC	

Overall Dimensions

XC-03R,XC-03R-QD



XC-03P,XC-03P-QD
XC-03N,XC-03N-QD



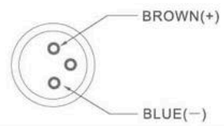
Joint Pipe Bore

PBK metal band for XC-03 series
For round cylinder ϕ6-ϕ63

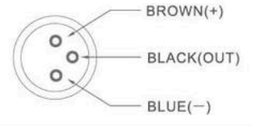


QD Pinout

2 wire QD wiring



3 wire QD wiring



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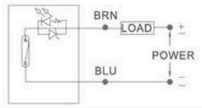
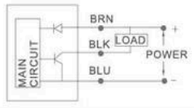
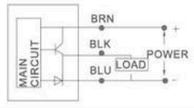
XC-21R Series Magnetism Switch



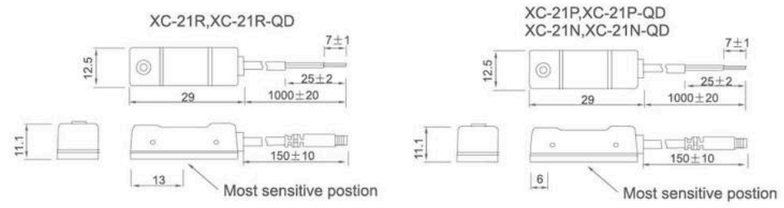
Features and Applications

1.Compact design
2.LED light
3.Anti-vibration application
4.PI,PM series clamp together
5.Simple installation
6.Suitable for all kinds of standard tie-rod and mickey-mouse barrel cylinder.

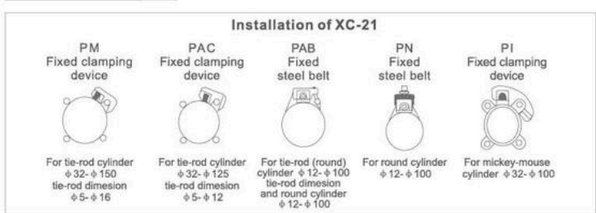
Specifcation

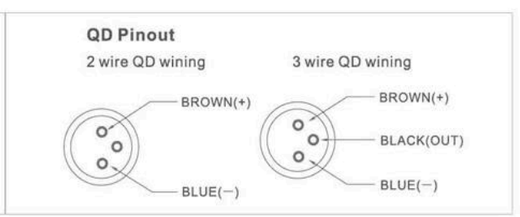
Model	XC-21R	XC-21N	XC-21P
Connect Diagram / Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max@ 24V(Switch Active)	
Voltage drop	3.5V max.	0.5V max	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range		-10~70℃	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	Φ4.0,2C PVC Gray color,oil resistance PVC	Φ4.0,2C PVC Black color,oil resistance PVC	

Overall Dimensions



Joint Pipe Bore





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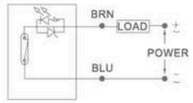
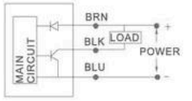
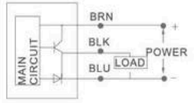
XC-31R Series Magnetism Switch



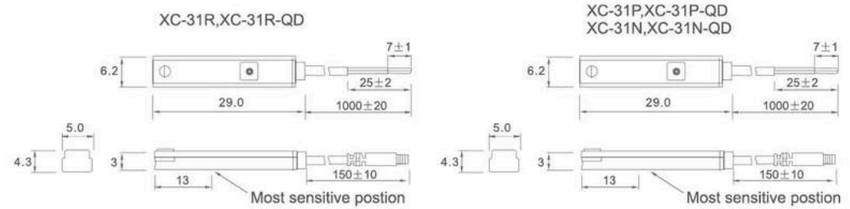
Features and Applications

1.Compact design
2.LED light
3.Anti-vibration application
4.For groove and bandage fixing type
5.Simple installation
6.Suitable for all kinds of groove type and mini type cylinder.

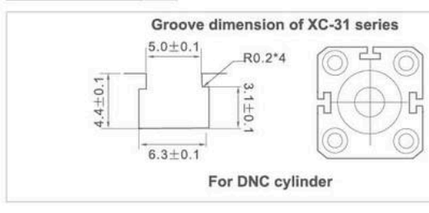
Specifcation

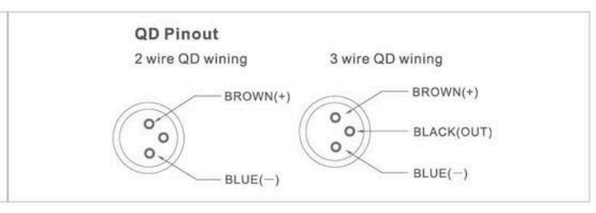
Model	XC-31R	XC-31N	XC-31P
Connect Diagram / Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	100mA max.	
Contact rating	10W max.	3W max.	
Current consumption	None	17mA max @ 24V(Switch Active)	14mA max@24V(Switch Active)
Voltage drop	2.5V max.@ 100mA	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range		-10~70℃	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	Φ3.0,2C PVC Gray color,oil resistance PVC	Φ3.0,2C PVC Black color,oil resistance PVC	

Overall Dimensions



Joint Pipe Bore





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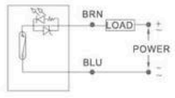
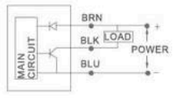
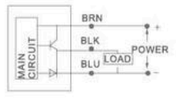
XC-11R Series Magnetism Switch



Features and Applications

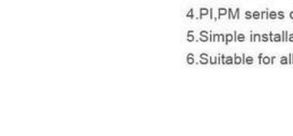
1.Compact design
2.LED light
3.Anti-vibration application
4.PI,PM series clamp together
5.Simple installation
6.Suitable for all kinds of standard tie-rod and mickey-mouse barrel cylinder.

Specifcation

Model	XC-11R	XC-11RB	XC-11N	XC-11P
250 320 Connect Diagram / Parameter				
Switching logic	SPST Normally Open	SPST Normally Closed	Solid State Output,Normally Open	
Sensor type	Reed switch		NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.		200mA max.	
Contact rating	10W max.		6W max.	
Current consumption	None		20mA max@ 24V(Switch Active)	
Voltage drop	2.5V max.@100mA		0.5V max @ 200mA	
Leakage current	None		0.01mA max.	
Indicator	Red LED		Red LED	Green LED
Cabel	Φ3.2,2C PVC Gray color,oil resistance PVC		Φ3.2,3C PVC Black color,oil resistance PVC	
Sensitivity	40Gauss			
Max.switch frequency	200Hz		1000Hz	
Temperature range	-10~70°C			
Shock	30G		50G	
Vibration	9G			
Enclosure classification	IEC 529 IP67(NEMA 6)			
Protection circuit	None		With protection	

Overall Dimensions

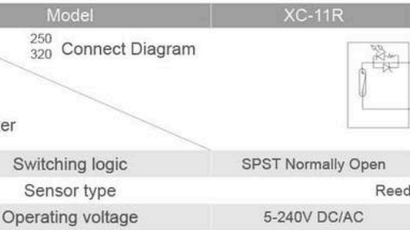
XC-11R
XC-11R-QR



XC-11N
XC-11N-QD

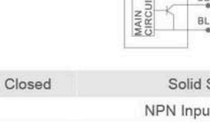


Joint Pipe Bore

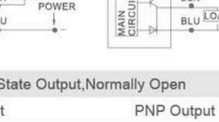


QD Pinout

2 wire QD wining



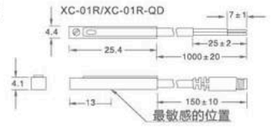
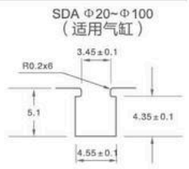
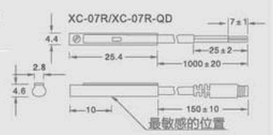
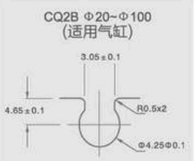
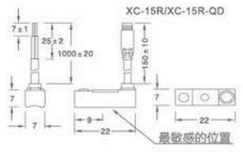
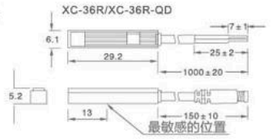
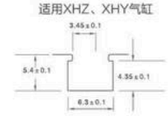
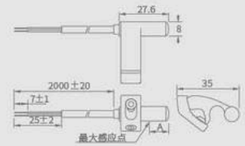
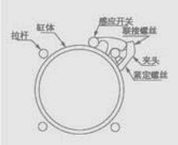
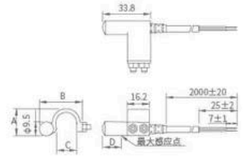
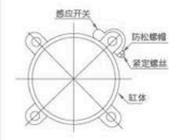
3 wire QD wining



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Magnetism Switch

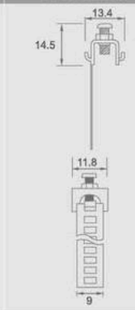
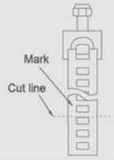
Specifcation

Model	Product	Contact Type	Working Voltage	Diameter	Joint Pipe Bore
XC-01R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	5~240V DC/AC 5~30V DC		
XC-07R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	5~240V DC/AC 5~30V DC		
XC-15R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	5~240V DC/AC 5~30V DC		
XC-20R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	5~240V DC/AC 5~30V DC		
XC-36R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	5~240V DC/AC 5~30V DC		
XC-17R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	10~28V DC 5~30V DC		
XC-27R Series		Amagnetic reed Switch contact Contactless NPN transistors Contactless PNP transistors	10~28V DC 5~30V DC		

BK / PBN / PN Series Clamp

BK Series Clamp

Clamp is designed for mounting XC-03 series sensor on Φ6 bore and above round cylinder

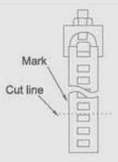
Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					

BK-81:For round cylind cylinder and tie-rod cylinder Φ6-Φ63.

BK-82:For round cylind cylinder and tie-rod cylinder Φ6-Φ125.(Speed design for≥Φ125)

PBN Series Clamp

Clamp is designed for mounting XC-21 series sensor on Φ12 bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					

PBN Series Clamp

Clamp is designed for mounting XC-21 series sensor on Φ12 bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					

PN — S — 20

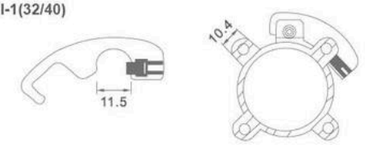
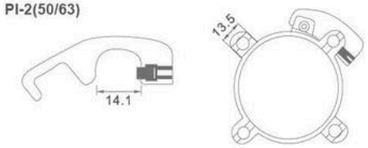
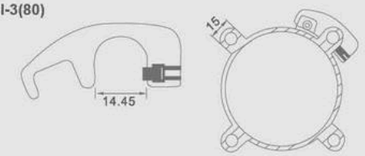
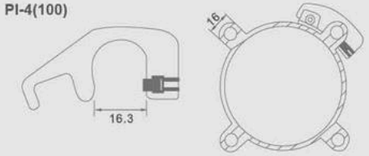
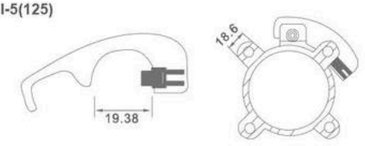
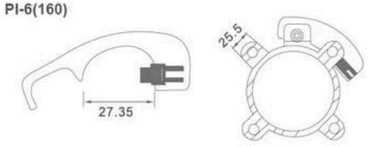
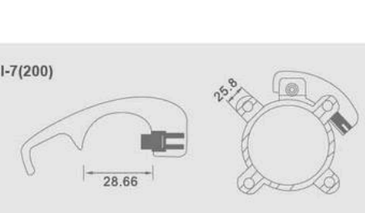
20: 12:Round cylinder Φ12; 16:Round cylinder Φ16; 150:Round cylinder Φ150

S: S:Stainless steel round cylinder; A:Aluminum round cylinder

PI / PAC Series Bracket

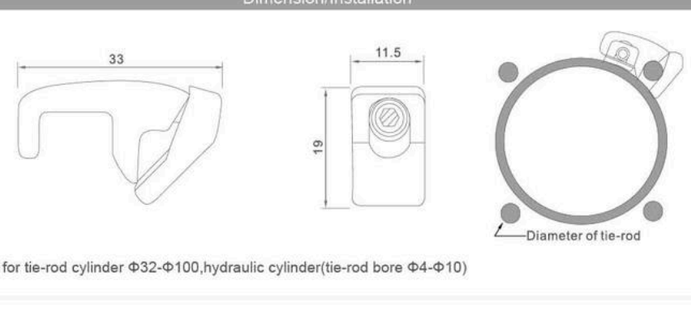
PI Series Bracket

Bracket is designed for mounting XC-21 series sensor on ISO profile cylinder.(mickey mouse Type)

Product	Dimension/Installation	
	PI-1(32/40) 	PI-2(50/63) 
	PI-3(80) 	PI-4(100) 
	PI-5(125) 	PI-6(160) 
	PI-7(200) 	

PAC Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation
	

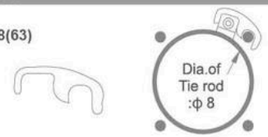
Using for tie-rod cylinder Φ32-Φ100,hydraulic cylinder(tie-rod bore Φ4-Φ10)

A

PM / SU Series Bracket

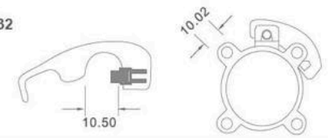
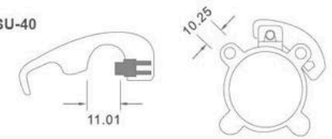
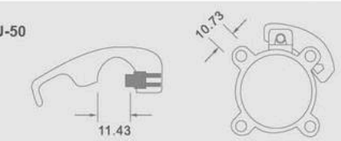
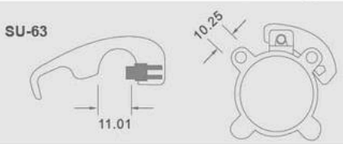
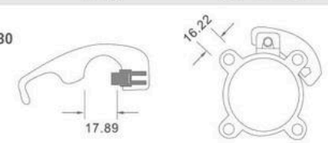
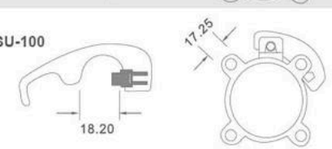
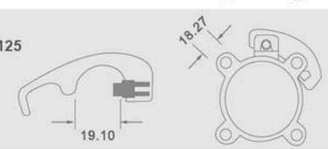
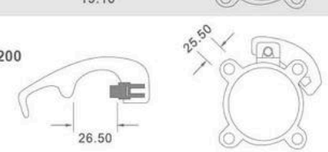
PM Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation	
	PM-6(32/40/50) 	PM-8(63) 
	PM-10(80/100) 	PM-12(125) 
	PM-16(160/200) 	

SU Series Bracket

Bracket is designed for mounting XC-21R sensor on mickey mouse Type cylinder (SUType).

Product	Dimension/Installation	
	SU-32 	SU-40 
	SU-50 	SU-63 
	SU-80 	SU-100 
	SU-125 	SU-160 
	SU-200 	

HAC Series Shock Absorbers



HAC2020-2



HAC2525-2



HACD2035

Ordering Code

HAC — 25 50 — 2 N

Series Code
HAC:Multi Non-Adjustable Type
HACD: Double Direction Cushion Type

Outside Diameter

Stroke

Impact speed
1. High Impact Speed
2. Medium Impact Speed
3. Low Impact Speed

Buffer cap
Blank:with buffer cap
N:Without buffer cap

Specifcation

Model	Stroke	Max.Absorbing Energy (NM)	Max.Absorb. Energy/Hour (NM)	Max.Effective Mass(kg)			Max.Impact Speed (m/s)		
				1	2	3	1	2	3
HAC-0806	6	2	7200	0.5	2	6	2	1	0.5
HAC-1005	5	3	10800	1	3	7	3	1.5	0.8
HAC-1008	8	4	14400	2	4	9	3	1.5	0.8
HAC-1210	10	5	18000	5	10	30	2	1.5	0.8
HAC-1412	12	15	36000	8	50	100	3	1.5	0.8
HAC-1416	16	20	40000	10	70	150	3	1.5	0.8
HAC-1425	25	25	48000	12	80	160	3	1.5	0.8
HAC-2020	20	40	48000	30	200	700	3.5	2	1
HAC-2030	30	50	54000	30	200	700	3.5	2	1
HAC-2050	50	60	66000	60	400	1200	3.5	2	1
HAC-2525	25	80	60000	200	600	1200	4	2.5	1
HAC-2540	40	120	84000	300	800	2000	4	2.5	1
HAC-2550	50	98	98000	15	40	160	4	2.5	1
HAC-2580	80	150	127500	20	50	200	4	2.5	1
HAC-3660	60	250	125000	400	1500	2400	4	2.5	1
HACD-2030	30	45	54000	40	300	900	3.5	2	1
HACD-2050	35	52	64400	40	200	650	3.5	2	1

■ Working Temperature: -10~85°C

A

HAD Series Shock Absorber



HAD2025



HAD2540

Ordering Code

HAD	—	25	25	1	□
Series Code		Outside Diameter	Stroke	Impact speed	Buffer cap
HAD:Adjustable Series				1:High impact speed 2:Medium impact speed 3:Low impact speed	Blank:with buffer cap N:Without buffer cap

Specifcation

Model	Stroke	Max.Absorbing Energy (NM)	Max.Absorb. Energy/Hour (NM)	Max Effective Mass(kg)	Max Impact speed(m/s)
HAD-1410	10	20	24000	80	3.2
HAD-2016N/2016	16	25	32000	200	3.6
HAD2050-N/2050	25	39	39000	312	3.6
HAD2525-N/2525	25	85	51000	400	3.6
HAD2540	40	100	84000	700	3.6
HAD2550	50	98	98000	720	4.2
HAD3625	25	150	9000	1400	3.2
HAD3650	50	300	108000	1400	4.8
HAD4225	25	260	130000	3000	3.6
HAD4250	50	500	155000	4000	4.8
HAD4275	75	750	187500	6000	4.8
HAD64050	50	12000	1560000	12727	1.6
HAD64100	100	24000	1920000	18181	1.6
HAD64150	150	36000	2520000	23636	1.6

■ Working Temperature: -10~+85°C

HR Series Speed Regalator



HR30

Ordering Code

HR	30
Series Code	Max.Stroke
HR:Adjustable oil speed regulator	15:15mm 30:30mm 60:60mm 80:80mm 100:100mm

Model	A	B	Max.stroke(mm)	Maximum load(kgf)
HR15	157	142	15	350
HR30	208	178	30	350
HR60	286	225	60	350
HR80	342	262	80	350
HR100	396	296	100	350

■ Working Temperature: -10~+85°C

XCPC®

Pneumatic Actuator

According to ISO5211, VD/VDE3845 and NAMUR international standard, XCPC provide the qualified pneumatic actuator which is compact, modernized design for your selection. Single acting and double acting as optional, size from 32mm to 270mm, and meet the different requirement of application to satisfy our customers.



XAT Series Pneumatic Actuator



XAT-52DA



XAT-63DA



XAT-75DA

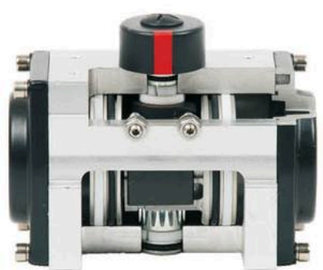
Ordering Code

X	AT	75	—	DA	—	□
XCPC Product	Actuator Type	Size 32-270mm		Return Type DA:Air Return Type SR:Spring Return Type		Qty of Spring 5~12pcs

Designing Features

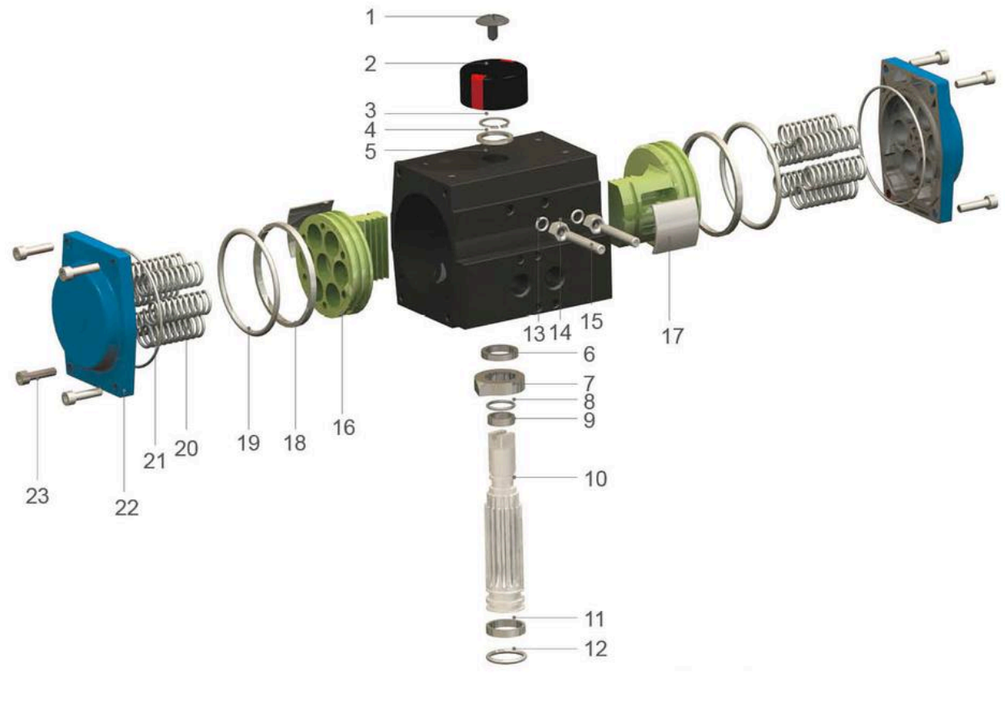
Designing Features (of XCPC 10 Series Pneumatic Actuator)

- Extruded aluminum ASTM6005 body with both internal and external corrosion protection having honed cylinder surface for longer life and low coefficient of friction.
- Dual piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation, reverse rotation can be accomplished in the field by simply inverting the pistons.
- Multiple bearings and guides on racks and pistons, low friction, high cycle life and prevent shaft blowout.
- Modular preloaded spring cartridge design, with coated spring for simple versatile range,greater safely and corrosion resistance, longer cycle life.
- Fully machined teeth on piston and pinion for accurate low backlash rack and pinion engagement, maximum efficiency.
- Carbon steel with nickel plated or stainless steel fasteners for long term corrosion resistance.
- Full conformance to the latest specifications: ISO5211, DIN 3337 and Namur or product interchangeability and easy mounting of solenoids, limit switches and other accessories.



XAT Series Pneumatic Actuator

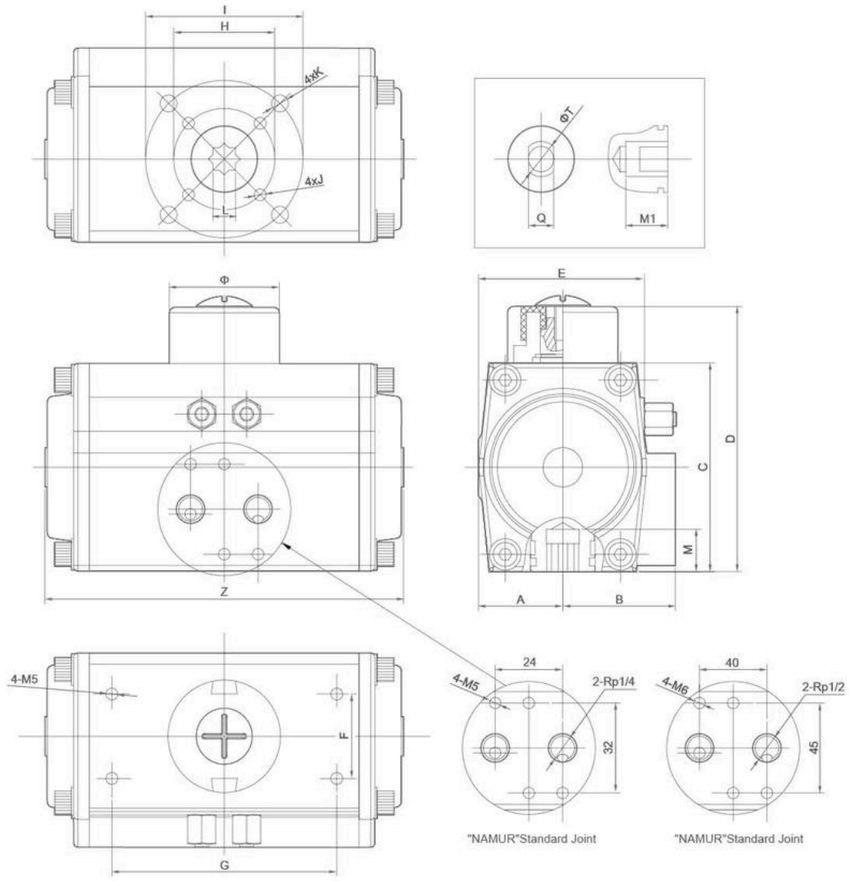
Part List &Material



No	Designation	Qty	Standard Material	Protection	Optional Material
1	Indicator Screw	1	Plastics		
2	Indicator	1	Plastics		
3	Circlip	1	Carbon Steel	Nickel Plated	Stainless Steel
4	Gasket	1	Engineering Plastics		
5	Body	1	Cast Aluminum	Hard Anodize, Etc	
6	Retainer Ring	1	Engineering Plastics		
7	Cam	1	Steel Alloy		
8	O Ring (Upper Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
9	Upper Bearing	1	Engineering Plastics		
10	Pinion	1	Carbon Steel/Stainless Steel	Nickel Plated	
11	Lower Bearing	1	Engineering Plastics		Stainless Steel
12	O Ring (Lower Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
13	O Ring (Adjust Screw)	2	NBR		Fluorine Rubber/Silicone Rubber
14	Nut (Adjust Screw)	2	Carbon Steel	Nickel Plated	Stainless Steel
15	Adjust Screw	2	Carbon Steel	Nickel Plated	Stainless Steel
16	Piston	2	Cast Aluminum/Casting	Anodized/Zinc Galvanized	Stainless Steel
17	Guide (Piston)	2	Engineering Plastics		
18	O Ring (Piston)	2	NBR		Fluorine Rubber/Silicone Rubber
19	Washer (Piston)	2	Engineering Plastics		
20	Spring (Single Acting)	0~12	Spring Steel	Dipping Paint	
21	O Ring (End Cap)	2	NBR		Fluorine Rubber/Silicone Rubber
22	End Cap	2	Cast Aluminum	Powder Coating, Etc	
23	Cap Screw	8	Carbon Steel	Nickel Plated	Stainless Steel

XAT Series Pneumatic Actuator

Overall Dimensions

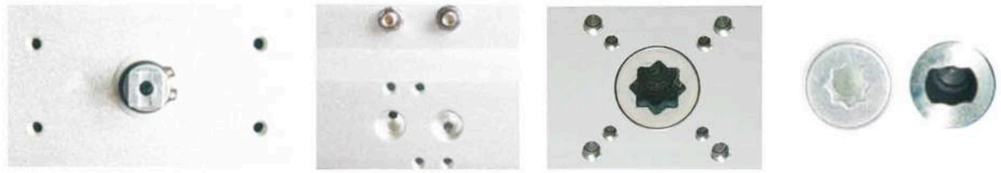


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Z	Φ	Air joint
32DA	20	25	45	65	-	25	50	Φ36	-	M5x8	-	9x9	12	100	40	NAMUR Rp 1/8"
40DA	25	32	60	80	50	25	50	Φ36	Φ50	M5x8	M6x8	9x9	12	108	40	NAMUR Rp 1/8"
52DA/SR	30	40	74.3	95	59	30	80	Φ36	Φ50	M5x8	M6x8	11x11	15	135	40	NAMUR Rp 1/4"
63DA/SR	36	44	88	107.5	74	30	80	Φ50	Φ70	M6x10	M8x13	14x14	16	142	40	NAMUR Rp 1/4"
75DA/SR	42	50	100.5	121	80.5	30	80	Φ50	Φ70	M6x10	M8x13	14x14	16	168	40	NAMUR Rp 1/4"
83DA/SR	46	57	108.5	128.7	88	30	80	Φ50	Φ70	M6x10	M8x13	17x17	19	188	40	NAMUR Rp 1/4"
92DA/SR	50	57	117	137	96.5	30	80	Φ50	Φ70	M6x10	M8x13	17x17	22	192	40	NAMUR Rp 1/4"
105DA/SR	57.5	64	133	153	109.5	30	80	Φ70	Φ102	M8x13	M10x16	22x22	26	258	40	NAMUR Rp 1/4"
127DA/SR	68.5	69	161	181	132	30	80/130	Φ70	Φ102	M8x13	M10x16	22x22	26	310	55	NAMUR Rp 1/4"
140DA/SR	75	77	180	200	137.5	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	370	55	NAMUR Rp 1/4"
160DA/SR	86	78	198	218	158	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	397	55	NAMUR Rp 1/4"
190DA/SR	103	103	230	260	189	30	130	-	Φ140	-	M16x25	36x36	40	525	80	NAMUR Rp 1/4"
210DA/SR	113	113	255	285	210	30	130	-	Φ140	-	M16x25	36x36	40	532	80	NAMUR Rp 1/4"
240DA/SR	129	129	290	320	245	30	130	-	Φ165	-	M20x25	46x46	50	602	80	NAMUR Rp 1/4"
270DA/SR	146	146	326	356	273	30	130	-	Φ165	-	M20x25	46x46	50	722	80	NAMUR Rp 1/2"

XAT Series Pneumatic Actuator

Connection Type and Weight



Connection Type

1. Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.
2. The NAMUR drive pinion and the NAMUR top mounting connection permit direct installation of accessories such as limit switch box and positioner.
3. Bottom mounting connection is designed in accordance with ISO5211 and DIN3337 standards for direct mounting with valve gear boxes or mounting brackets.

New Type

New connection types are continued researching and developing.

Customer Need

We can design and produce all kinds of connection types according to customer'needs.

Air Volume (cm^3)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
CW	40	65	135	220	350	540	760	1100	2150	2950	4260	5900	7500	11000	17000
CCW	30	43	110	160	270	410	570	860	1590	2100	3080	5900	7500	9000	14000

Weight (kgs)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
DA	0.5	0.75	1.1	1.96	2.4	2.9	3.95	5.8	9.3	14.5	17.5	31.3	46.8	67.3	97
SR			1.6	2.1	3	3.9	5.4	8.1	12.9	18.7	23.5	35.3	58.8	80.2	118

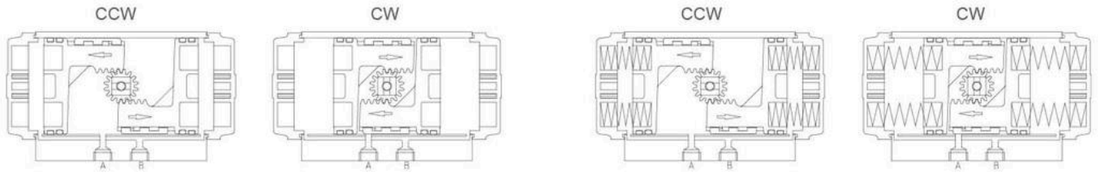
Note: Spring Return unit weights are with full 6 sets of springs per piston.

XAT Series Pneumatic Actuator

Double Acting Operating Principle

Single Acting Operating Principle

Operating Principle and Condition



CCW

Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

CCW

Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

CW

Input the compressed air from the B, the left and right plungers move to the center, the output pinion rotates clockwise, and the air between the two plungers exhausts from A.

CW

When it is out of air or power, the two plungers move to the center under the spring action, the output pinion rotates clockw

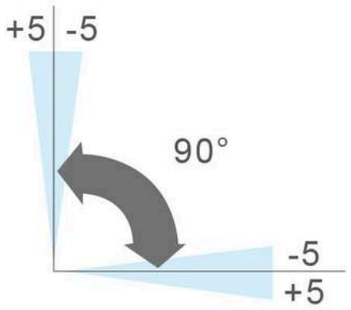
Operating Condition

1. Operating Media
   Dry and clear air, or the non-corrosive gases
   The maximum particle diameter must less than 40um

2. Air Supply Pressure
   The minimum supply pressure is 2.5Bar
   The maximum supply pressure is 10Bar

3. Operating Temperature
   Standard: -20℃ ~+80℃
   Low temperature: -35℃ ~+80℃ (can be customized)
   High temperature: -15℃ ~+150℃ (can be customized)

4. Travel Adjustment
   Have adjustment range of +-5 degree for the rotation at 0 and 90 degree



5. Application
   Either indoor or outdoor

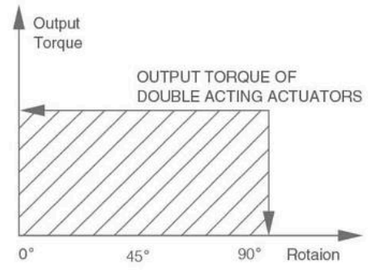
XAT Series Pneumatic Actuator

Double Acting Torque List

Torque List and Reference Selection

Model \ Torque	Air Pressure(Bar)									
	2.5	3	3.5	4	4.5	5	5.5	6	7	8
XAT-32DA	3.2	3.8	4.4	5.0	5.7	6.31	6.9	7.6	8.8	10.1
XAT-40DA	4.9	6.0	6.9	7.9	8.9	9.85	10.8	11.8	13.8	15.8
XAT-52DA	9.9	12.0	13.8	15.8	17.7	19.7	21.7	23.6	27.6	31.5
XAT-63DA	14.5	17.7	20.3	23.2	26.1	29.0	31.9	34.8	40.6	46.4
XAT-75DA	24.8	30.2	34.7	39.6	44.6	49.5	54.5	59.4	69.3	79.2
XAT-83DA	35.3	43.0	49.4	56.4	63.5	70.5	77.6	84.6	98.7	112.8
XAT-92DA	49.5	60.4	69.3	79.2	89.1	99.0	108.9	118.8	138.6	158.4
XAT-105DA	80.5	98.2	112.7	128.8	144.9	161.0	177.1	193.2	225.4	257.6
XAT-127DA	141.5	172.6	198.1	226.4	254.7	283.0	311.3	339.6	396.2	452.8
XAT-140DA	215.0	262.3	301.0	344.0	387.0	430.0	473.0	516.0	602.0	688.0
XAT-160DA	281.0	342.8	393.4	449.6	505.8	562.0	618.2	674.4	786.8	899.2
XAT-190DA	532.0	638.4	744.8	851.2	957.6	1064.0	1170.4	1276.8	1489.6	1702.4
XAT-210DA	665.0	798.0	931.0	1064.0	1197.0	1330.0	1463.0	1596.0	1862.0	2128.0
XAT-240DA	962.0	1154.4	1346.8	1539.2	1731.6	1924.0	2116.4	2308.8	2693.6	3078.4
XAT-270DA	1462.0	1754.4	2046.8	2339.2	2631.6	2924.0	3216.4	3508.8	4093.6	4678.4

TYPE: Double acting pneumatic actuator
The suggested safe factor for double acting actuators under normal working conditions is 20%~30%.
Example:
The torque needed by valve=100 Nm
The torque considered safe factor=100 (1+30%)=130 Nm
Air supply pressure=5Bar
According to the above table, we can choose the minimum model is XAT-105DA.



Reference Selection

Model	If air pressure	Reference	Reference	Valve	Double	ISO5211
XAT-32DA	6.3	-	-	-	9	F03
XAT-40DA	9.85	-	-	-	9	F03/05
XAT-52DA	19.7	40	2"	9	9	F03/05
XAT-63DA	29	65	2.5"	11	11	F05/07
XAT-75DA	49.5	80	3"	20	14	F05/07
XAT-83DA	70.5	100	4"	29	17	F05/07
XAT-92DA	99	100	4"	47	17	F05/07
XAT-105DA	161	125	5"	82	22	F07/10
XAT-127DA	283	150	6"	130	22	F07/10
XAT-140DA	430	250	10"	360	27	F10/12
XAT-160DA	562	250	10"	360	27	F10/12
XAT-190DA	1064	300	12"	475	36	F14
XAT-210DA	1330	350	14"	760	36	F14
XAT-240DA	1924	400	16"	1300	46	F16
XAT-270DA	2924	500	20"	2340	46	F16

XAT Series Pneumatic Actuator

Single Acting Torque List and Reference Selection

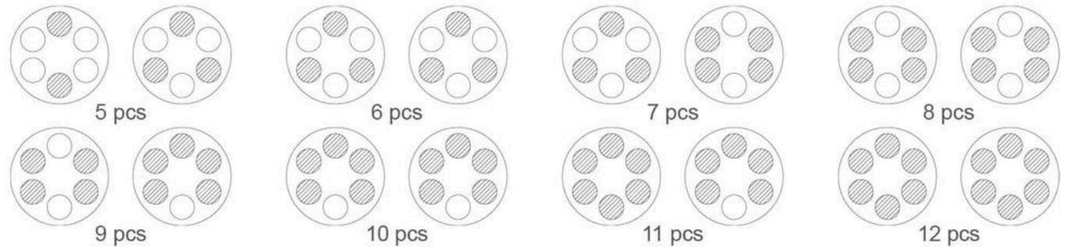
Model	Spring Sets	Spring Torque		Air Pressure(Bar)																			
				2.5		3		3.5		4		4.5		5		5.5		6		7		8	
		90°	0°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
52	4	6.6	3.8	6.1	3.3	8.1	5.2	10	7.2	12	9.2	13.9	11.1	15.9	13.1	17.9	15.1	19.8	17	23.8	21	27.7	24.9
	5	8.3	4.8			5.1	3.6	9	5.5	11	7.5	13	9.5	15	11.5	16.9	13.4	18.9	15.4	22.8	19.3	26.8	23.3
	6	9.9	5.7					8.1	3.9	10.1	5.9	12	7.8	14	9.8	16	11.8	17.9	13.7	21.9	17.7	25.8	21.6
	7	11.6	6.7							9.1	4.2	11.1	6.2	13.1	8.2	15	10.1	17	12.1	20.9	16	24.9	20
	8	13.2	7.6									10.1	4.5	12.1	6.5	14.1	8.5	16	10.4	20	14.4	23.9	18.3
	9	14.9	8.6									9.2	2.9	11.2	4.9	13.1	6.8	15.1	8.8	19	12.7	23	16.7
	10	16.5	9.5											10.2	3.2	12.2	5.2	14.1	7.1	18.1	11.1	22	15
	11	18.2	10.5													11.2	3.5	13.2	5.5	17.1	9.4	21.1	13.4
	12	19.8	11.4															12.2	3.8	16.2	7.8	20.1	11.7
63	4	10.6	5.3	9.2	3.9	12.1	6.8	15	9.7	17.9	12.6	20.8	15.5	23.7	18.4	26.6	21.3	29.5	24.2	35.3	30	41.1	35.8
	5	13.3	6.7			10.8	4.1	13.7	7	16.6	9.9	19.5	12.8	22.4	15.7	25.3	18.6	28.2	21.5	34	27.3	39.8	33.1
	6	16	8					12.3	4.3	15.2	7.2	18.1	10.1	21	13	23.9	15.9	26.8	18.8	32.6	24.6	38.4	30.4
	7	18.6	9.3							13.9	4.6	16.8	7.5	19.7	10.4	22.6	13.3	25.5	16.2	31.3	22	37.1	27.8
	8	21.3	10.6									15.5	4.8	18.4	7.7	21.3	10.6	24.2	13.5	30	19.3	35.8	25.1
	9	23.9	12											17	5.1	19.9	8	22.8	10.9	28.6	16.7	34.4	22.5
	10	26.6	13.3													18.6	5.3	21.5	8.2	27.3	14	33.1	19.8
	11	29.3	14.6															20.2	5.5	26	11.3	31.8	17.1
	12	31.9	16																	24.6	8.7	30.4	14.5
75	4	18.7	10.9	13.9	6	18.8	11	23.8	15.9	28.7	20.9	33.7	25.8	38.6	30.8	43.6	35.7	48.5	40.7	58.4	50.6	68.3	60.5
	5	23.4	13.6			16.1	6.3	21	11.3	26	16.2	30.9	21.2	35.9	26.1	40.8	31.1	45.8	36	55.7	45.9	65.6	55.8
	6	28.1	16.3					18.3	6.6	23.3	11.5	28.2	16.5	33.2	21.4	38.1	26.4	43.1	31.3	53	41.2	62.9	51.1
	7	32.8	19.1							20.5	6.8	25.5	11.8	30.4	16.7	35.4	21.7	40.3	26.6	50.2	36.5	60.1	46.4
	8	37.4	21.8									22.8	7.1	27.7	12.1	32.7	17	37.6	22	47.5	31.9	57.4	41.8
	9	42.1	24.5											25	7.4	29.9	12.3	34.9	17.3	44.8	27.2	54.7	37.1
	10	46.8	27.2													27.2	7.7	32.2	12.6	42.1	22.5	52	32.4
	11	51.5	30															29.4	7.9	39.3	17.8	49.2	27.7
	12	56.2	32.7																	36.6	13.1	46.5	23
83	4	28.8	17.1	18.1	6.4	25.2	13.5	32.2	20.5	39.3	27.6	46.3	34.6	53.4	41.7	60.4	48.7	67.5	55.8	81.6	69.9	95.7	84
	5	36.1	21.4			20.9	6.3	27.9	13.3	35	20.4	42	27.4	49.1	34.5	56.1	41.5	63.2	48.6	77.3	62.7	91.4	76.8
	6	43.3	25.7					23.6	6.1	30.7	13.1	37.7	20.2	44.8	27.2	51.8	34.3	58.9	41.3	73	55.4	87.1	69.5
	7	50.5	30							26.4	5.9	33.5	13	40.5	20	47.6	27.1	54.6	34.1	68.7	48.2	82.8	62.3
	8	57.7	34.3									29.2	5.8	36.2	12.8	43.3	19.9	50.3	26.9	64.4	41	78.5	55.1
	9	64.9	38.6											31.9	5.6	39	12.7	46	19.7	60.1	33.8	74.2	47.9
	10	72.1	42.8													34.7	5.5	41.8	12.5	55.9	26.6	70	40.7
	11	79.3	47.1															37.5	5.3	51.6	19.4	65.7	33.5
	12	86.5	51.4																	47.3	12.2	61.4	26.3
92	4	36.7	23.7	25.8	12.8	35.7	22.7	45.6	32.6	55.5	42.5	65.4	52.4	75.3	62.3	85.2	72.2	95.1	82.1	115	102	135	122
	5	45.9	29.6	19.9	3.6	29.8	13.5	39.7	23.4	49.6	33.3	59.5	43.2	69.4	53.1	79.3	63	89.2	72.9	109	92.7	129	112
	6	55.1	35.5			23.9	4.3	33.8	14.2	43.7	24.1	53.6	34	63.5	43.9	73.4	53.8	83.3	63.7	103	83.5	123	103
	7	64.3	41.4					27.9	5	37.8	14.9	47.7	24.8	57.6	34.7	67.5	44.6	77.4	54.5	97.2	74.3	117	94.1
	8	73.5	47.4							31.8	5.7	41.7	15.6	51.6	25.5	61.5	35.4	71.4	45.3	91.2	65.1	111	84.9
	9	82.7	53.3									35.8	6.4	45.7	16.3	55.6	26.2	65.5	36.1	85.3	55.9	105	75.7
	10	91.8	59.2											39.8	7.2	49.7	17.1	59.6	27	79.4	46.8	99.2	66.6
	11	101	65.1													43.8	7.9	53.7	17.8	73.5	37.6	93.3	57.4
	12	110	71															47.8	8.6	67.6	28.4	87.4	48.2
105	4	63.2	34.4	46.1	17.3	62.2	33.4	78.3	49.5	94.4	65.6	111	81.7	127	97.8	143	114	159	130	191	162	223	194
	5	79	43			53.6	17.6	69.7	33.7	85.8	49.8	102	65.9	118	82	134	98.1	150	114	182	146	215	179
	6	94.8	51.6					61.1	17.9	77.2	34	93.3	50.1	109	66.2	126	82.3	142	98.4	174	131	206	163
	7	111	60.2							68.6	18.2	84.7	34.3	101	50.4	117	66.5	133	82.6	165	115	197	147
	8	126	68.8									76.1	18.5	92.2	34.6	108	50.7	124	66.8	157	99	189	131
	9	142	77.4											83.6	18.8	100	34.9	116	51	148	83.2	180	115
	10	158	86													91.1	19.1	107	35.2	139	67.4	172	100
	11	174	94.6															98.6	19.4	131	51.6	163	83.8
	12	190	103																	122	35.8	154	68
127	4	128	77.1	64.4	13.8	92.7	42.1	121	70.4	149	98.7	178	127	206	155	234	184	263	212	319	269	376	325
	5	160	96.4			73.4	10.2	102	38.5	130	66.8	158	95.1	187	123	215	152	243	180	300	237	356	293
	6	192	116							111	34.9	139	63.2	167	91.5	196	120	224	148	281	205	337	261
	7	223	135									120	31.3	148	59.6	176	87.9	205	116	261	173	318	229
	8	255	154											129	27.6	157	55.9	185	84.2	242	141	299	197
	9	287	173													138	24	166	52.3	223	109	279	166
	10	319	193															147	20.4	203	77	260	134
	11	351	212																	184	45.1	241	102
	12	383	231																	165	13.2	222	69.8

XAT Series Pneumatic Actuator

Single Acting Torque List and Reference Selection

Model	Spring Sets	Spring Torque		Air Pressure(Bar)																			
				2.5		3		3.5		4		4.5		5		5.5		6		7		8	
		90°	0°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
140	4	181	102	113	34.3	156	77.3	199	120	242	163	285	206	328	249	371	292	414	335	500	421	586	507
	5	226	128			131	32.1	174	75.1	219	118	260	161	303	204	346	247	389	290	475	376	561	462
	6	271	153					148	29.9	191	72.9	234	116	277	159	320	202	363	245	449	331	535	417
	7	316	179							166	27.7	209	70.7	252	114	295	157	338	200	424	286	510	372
	8	361	204									183	25.6	226	68.6	269	112	312	155	398	241	484	327
	9	407	230											201	23.4	244	66.4	287	109	373	195	459	281
	10	452	255													218	21.2	261	64.2	347	150	433	236
	11	497	281															236	19	322	105	408	191
	12	542	306																	296	60	382	146
160	4	234	143	138	47	194	103	251	159	307	216	363	272	419	328	475	384	532	440	644	553	756	665
	5	293	179			159	44.7	215	101	271	157	327	213	384	270	440	326	496	382	608	494	721	607
	6	351	214					179	42.4	235	98.6	292	155	348	211	404	267	460	323	573	436	685	548
	7	410	250							200	40.1	256	96.3	312	153	368	209	425	265	537	377	649	490
	8	468	286									220	37.8	276	94	333	150	389	206	501	319	614	431
	9	527	321											241	35.5	297	91.7	353	148	466	260	578	373
	10	585	357													261	33.2	317	89.4	430	202	542	314
	11	644	393															282	30.9	394	143	507	256
	12	702	428																	358	84.8	471	197
190	4	242	160	372	290	478	396	585	503	691	609	798	716	904	822	1010	928	1117	1035	1330	1248	1542	1460
	5	309	200	332	223	438	329	545	436	651	542	758	649	864	755	970	861	1077	968	1290	1181	1502	1393
	6	371	240	292	161	398	267	505	374	611	480	718	587	824	693	930	799	1037	906	1250	1119	1462	1331
	7	433	280	252	99	358	205	465	312	571	418	678	525	784	631	890	737	997	844	1210	1057	1422	1269
	8	495	320			318	143	425	250	531	356	638	463	744	569	850	675	957	782	1170	995	1382	1207
	9	557	360					385	188	491	294	598	401	704	507	810	613	917	720	1130	933	1342	1145
	10	618	400							451	233	558	340	664	446	770	552	877	659	1090	872	1302	1084
	11	680	440									518	278	624	384	730	490	837	597	1050	810	1262	1022
	12	742	480											584	322	690	428	797	535	1010	748	1222	960
210	4	304	220	445	361	578	494	711	627	844	760	977	893	1110	1026	1243	1159	1376	1292	1642	1558	1908	1824
	5	380	275	390	285	523	418	656	551	789	684	922	817	1055	950	1188	1083	1321	1216	1587	1482	1853	1748
	6	456	330	335	209	468	342	601	475	734	608	867	741	1000	874	1133	1007	1266	1140	1532	1406	1798	1672
	7	532	385	280	133	413	266	546	399	679	532	812	665	945	798	1078	931	1211	1064	1477	1330	1743	1596
	8	608	440			358	190	491	323	624	456	757	589	890	722	1023	855	1156	988	1422	1254	1688	1520
	9	684	495					436	247	569	380	702	513	835	646	968	779	1101	912	1367	1178	1633	1444
	10	760	550							514	304	647	437	780	570	913	703	1046	836	1312	1102	1578	1368
	11	836	605									592	361	725	494	858	627	991	760	1257	1026	1523	1292
	12	912	660											670	418	803	551	936	684	1202	950	1468	1216
240	4	443	328	634	519	826	711	1019	904	1211	1096	1404	1289	1596	1481	1788	1673	1981	1866	2366	2251	2750	2635
	5	554	410	552	408	744	600	937	793	1129	985	1322	1178	1514	1370	1706	1562	1899	1755	2284	2140	2668	2524
	6	665	492	470	297	662	489	855	682	1047	874	1240	1067	1432	1259	1624	1451	1817	1644	2202	2029	2586	2413
	7	776	575	387	186	579	378	772	571	964	763	1157	956	1349	1148	1541	1340	1734	1533	2119	1918	2503	2302
	8	887	656			498	267	691	460	883	652	1076	845	1268	1037	1460	1229	1653	1422	2038	1807	2422	2191
	9	998	739					608	349	800	541	993	734	1185	926	1377	1118	1570	1311	1955	1696	2339	2080
	10	1108	821							718	431	911	624	1103	816	1295	1008	1488	1201	1873	1586	2257	1970
	11	1219	903									829	513	1021	705	1213	897	1406	1090	1791	1475	2175	1859
	12	1330	985											939	594	1131	786	1324	979	1709	1364	2093	1748
270	4	631	448	1014	831	1306	1123	1599	1416	1891	1708	2184	2001	2476	2293	2768	2585	3061	2878	3646	3463	4230	4047
	5	787	560	902	675	1194	967	1487	1260	1779	1552	2072	1845	2364	2137	2656	2429	2946	2722	3534	3307	4118	3891
	6	943	672	790	519	1082	811	1375	1104	1667	1396	1960	1689	2252	1981	2544	2273	2837	2566	3422	3151	4006	3735
	7	1101	783	679	361	971	653	1264	946	1556	1238	1849	1531	2141	1823	2433	2115	2726	2408	3311	2993	3895	3577
	8	1258	895			859	496	1152	789	1444	1081	1737	1374	2029	1666	2321	1958	2614	2251	3199	2836	3783	3420
	9	1416	1007					1040	631	1332	923	1625	1216	1917	1508	2209	1800	2502	2093	3087	2678	3671	3262
	10	1572	1119							1220	767	1513	1060	1805	1352	2097	1644	2390	1937	2975	2522	3559	3106
	11	1730	1231									1401	902	1693	1194	1985	1486	2278	1779	2863	2364	3447	2948
	12	1887	1342											1582	1037	1874	1329	2167	1622	2752	2207	3336	2791

Springs mounting form for spring return actuators:



XAT Series Pneumatic Actuator

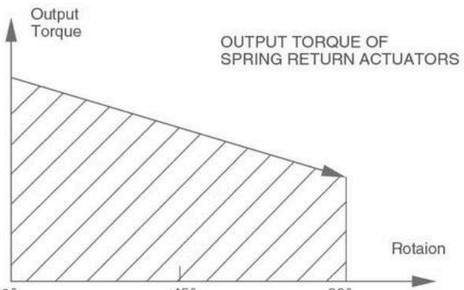
Reference Selection

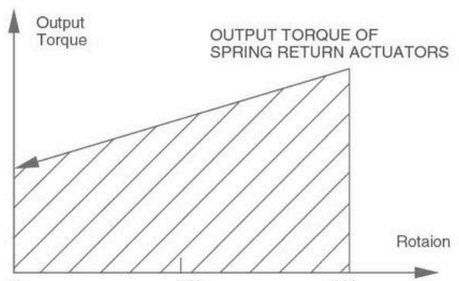
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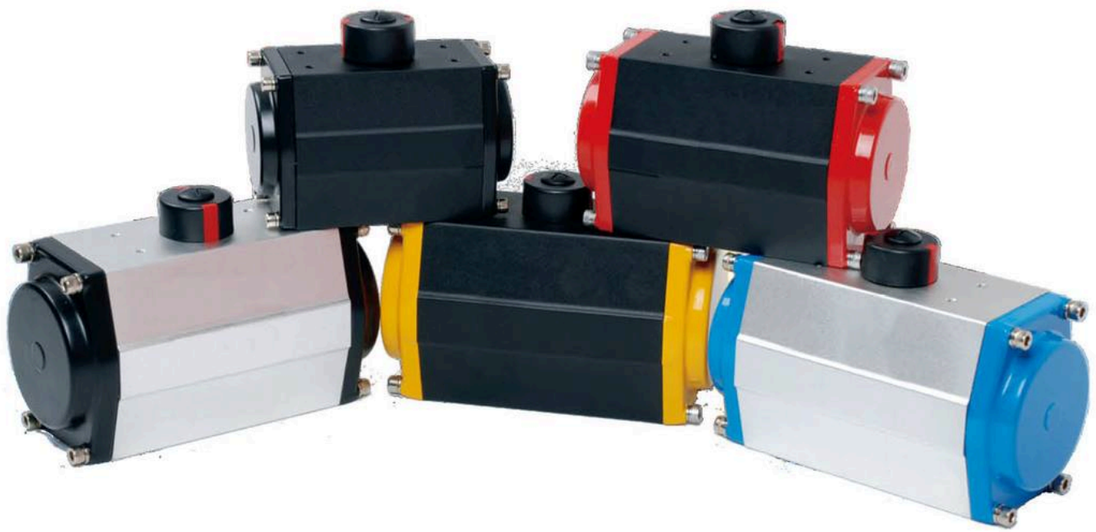
Single acting pneumatic actuator
The suggested safe factor for single acting actuators under normal working conditions is 20%~30%.

Example:

The torque needed by valve=100 Nm
The torque considered safe factor=100 (1+30%)=130 Nm
Air supply pressure=5Bar
According to the above table, we can choose the minimum model is XAT-40SR with full 6pcs spring.







XSP Series Pneumatic Disc Ball Valve





A variety of valve body styles are availableValve type: 2-way, 3-way L,3-way T and 4-ways is optional!Sealing is available in a variety of materials;Port cpmmection DNO8-DN100.

Ordering Code

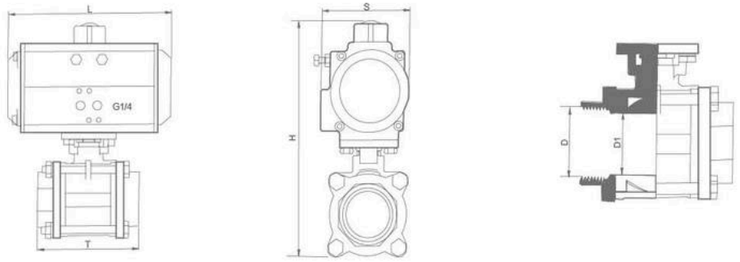
XSP	□	2	2	025	—	F	1	P	16
Series Code	**Valve Model**	**Valve Body Form**	**Valve Type**	**Port Code**		**Sealing Material**	**Connecting Type**	**Body Material**	**Pressure**
Pneumatic Ball Valve	Blank:Ball Valve H:Handle Ball Valve M:Multi-pass Distribution Ball Valve	2:2-Piece body 3:3-piece body	2:2-way 2H:high platform type 3T:3-way T type 3TH:high platform type 3L:3-way L type 3LH:high platform type 4X: 3-way X type 4XH:high platform type	15:G1/2" 20:G3/4" 25:G1" 32:G1-1/4" 40:G1-1/2" 50:G2"		F:PTFE(-29~180°C) R:RTFE(-29~200°C) T:Ceramic(-40~350°C) N:NBR(-20~90°C) D:EPDM(-20~120°C) K:PEEK(-29~285°C) W:Metal (500°C)	1:Female Thread 2:Male Thread 3:Butt Weld Ends 4:Flange Ends 5:Tri-Clamp Type 6:Wafer type Flange 7:Socket Weld 8:Union style	P:304/CF8 R:316/CF8M PL:304L/CF3 RL:316L/CF3M C:WCB Q:Ductile iron	16:PN1.6MPa 25:PN2.5MPa 40:PN4.0MPa 64:PN6.4MPa

Specifcation

Nominal Diameter DN (mm)		DN10-100				
Nominal pressure	PN(MPa)	1.0	1.6	2.5	4.0	6.4
Test Pressure	Strengh Test	1.5	2.4	3.75	6.0	9.60
	Seal Test	1.1	1.76	2.75	4.4	7.04
	Low Pressure Seal Test	0.5-0.7				
Working Media		Water,Oil,Steam,Nitric acid（Temperate≤200℃）、Acetic acid（Temperate≤200℃）				
Connection Form		Thread Type,Wedded Type				
Spool Form		O-shaped ball spool				
Sealing Packing		PTFE、Flexible graphite				
Flow Characteristics		Approximate Quick-opening Type				
Action Range		0-90°				
Q Leakage Q		According Gb/T4213-92、<rated Kv0.01%(Soft seal:Zero leakage)				
Basic Error		With Positioner：<Total Stroke ±2%				
Dead Zone		With Positioner：<Total Stroke 2%				
Adjustable Range		250:1				
Configure Actuator		XAT Series Single Action(SR)、Double Action(DA)、Pneumatic Actuator				
Control Mode		Switch Two Position Control、4-20ma Modulating Control				

XSP Series Pneumatic Disc Ball Valve

Overall Dimensions



Dimension Sheet

Nominal DiameterDN(mm)	PN:1.6MPa						Actuator Specification
	L	T	H	S	D1	D	
8	147	70	152	71.5	8	11.5	XATD-52
10	147	70	152	71.5	10	15	XATD-52
15	147	70	152	71.5	15	19	XATD-52
20	147	77	160	71.5	20	24	XATD-52
25	147/168	84	170/185	71.5/83.5	25	30	XATD-52/63
32	168	100	197	83.5	32	39	XATD-63
40	168/184	108	211/224	83.5/96	40	44	XATD-63/75
50	184/204	125	228/357	96/104	50	56.5	XATD-75/83
65	204/260	162	302/310	104/109	65	72.5	XATD-83/92
80	260/268	191	328/344	109/125	80	84.5	XATD-92/105
100	268/310	241	371/403	125/147	100	110	XATD-105/125

XDF Series Pneumatic Wafer Butterfly Valve



Pneumatic soft sealing butterfly valve is composed of pneumatic actuator and midline sealing butterfly valve. The soft sealing butterfly valve is divided into two structureswafer type and flange type. The products are widely used in water supply and drainageand gas pipelines such as food, medicine, chemical industry, petroleum, electric powerlight textile and papermaking.

Ordering Code

XDF — 1 — Z — T — DN50 — XAT63

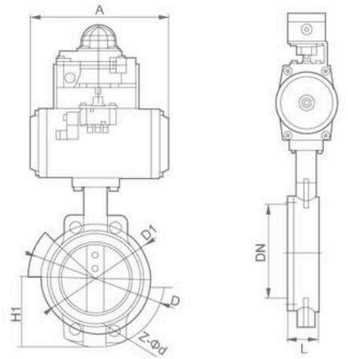
Series Code	Structure Type	Body Material	Disc Material	Port Size	Actuator Code
Pneumatic Wafer Butterfly Valve	1:Middle	Z:Puctile C:Cast Steel P:SS304	T:Ductile Iron B:Cast Steel S:SS304	DN50~DN500	XAT

XDF Series Pneumatic Wafer Butterfly Valve

Specifcation

Nominal Diameter DN (mm)		DN50-800		
Nominal pressure	PN(MPa)	0.6	1.0	1.6
Test Pressure	Strengh Test	0.9	1.5	2.4
	Seal Test	0.66	1.1	1.76
	Low Pressure Seal Test	0.5-0.7		
Working Media		Air,Water,Steam,Gas,Oil		
Actuator model		XAT Series Single Double Action Pneumatic Actuator		
Air supply pressure		0.4-0.7MPa		
Air connection		G1/4"、G1/8"、G3/8"、G1/2"		
Ambient temperature		-30-70℃		
Action form		Single Action, Double Action		

Overall Dimensions



Dimension Sheet

DN(mm) Nominal Diameter	L	D1	D	Z-Φd	H1	A
50	43	125	165	4-18	80	150
65	46	145	185	4-18	89	175
80	46	160	200	8-18	95	185
100	52	180	220	8-18	114	210
125	56	210	250	8-18	127	265
150	56	240	285	8-22	139	270
200	60	295	340	8-22	175	310
250	68	350	395	12-22	203	390
300	78	400	445	12-23	242	460
350	78	460	505	16-23	267	525
400	88	515	565	16-28	309	532
450	108	565	615	20-28	328	532
500	127	620	670	20-28	361	602

APL Series Limit Switch Box



■ **Summary:**

APL-210N position Limit switch is a signal device for the remote control of valve, show the working condition of valve by the switch, it contains mechanical switch and proximity switch, and widely applies to petroleum, chemical industry, pharmacy, food, electricity, coal gas,pro-environment, metallurgy and paper making etc.

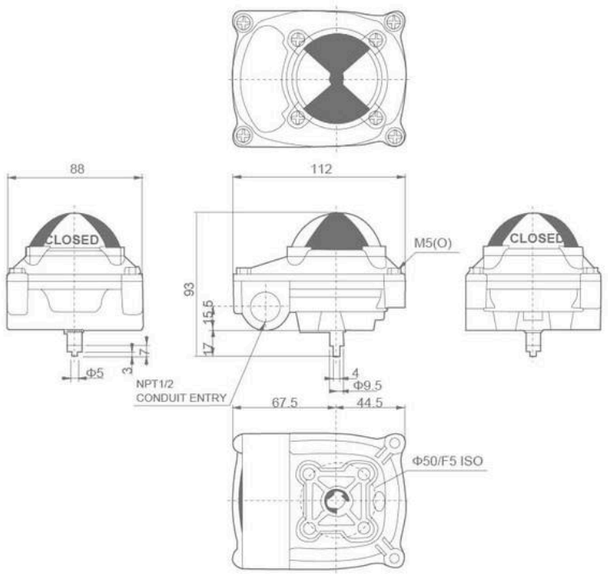
■ **Performance Features**

The switch is installed separately, convenient maintenance and replacement
1.Firm and compact design;2.Die-casting aluminum;
3.Quick cam machine,4.Fix springs on the cam without tools;5.Convenient installation.
NAMUR standard stainless steel and frame-Reaspnable design for frame connecting hole.
convenient installtion

Specifcation

Panameter	Standard	Option	Meterial	
Protection	IP67/NEMA4&4X	IP68	Shell	Die-casting aluminum
Ambient	-20℃ ~80℃			
Wiring	2xNPT1/2	PF1/2",P1/2" M20,PG13.5	Indicate cover Indicator	IPolyester coating ABC/polyester coating
Terminal	8 Points(0.08~2.6mm^2)		cam	Polyester coating
Position Indicator	Close:red Open:yellow	Close:red Open:green	Spring Screw	Stainless Steel Stainless Steel
Switch	Mechanical Switch:X2 Proximity Switch:X2		O-ring Washer	NBR Bronze
External Painting	Polyester Coating	Red,Green,Blue,Yellow Nylon Paonting	E-ring Earth Line	Stainless Steel Stainless Steel
Axis	Standard Axis(17mm)	Lengthen Axis	Frame	Stainless Steel

Overall Dimensions



Air source treatment units

XCPC produce different standards of air source treatment unit(short as FRL), which include air filter, regulator, lubricator. They are offered as separation or combination, auto drain is available for some models. XCPC is one of the leading factory in this area for 17 years, with high reputation in domestic and international market.

XOC Series Air Source Treatment Unit



XOC-MINI

The XOC consisted of XOF,XOR and XOL,each unit can be ordered separately.
The XOF with water separator cleans the compressed air of fluid oil,condensation and dirt.
Particles.For special application,the standard 40μm filter element may easily be replaced by a 5μm filter element.
The XOR maintain imputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.The proportional lubricator adds a regulated quantity of oil to the filtered air.The oil-mist content proportional to the flow and oil can be added during operation.
The oil drop rate is controlled by the adjustable bolt.Normally,1to 12 drops/1000L of the air is sufficient

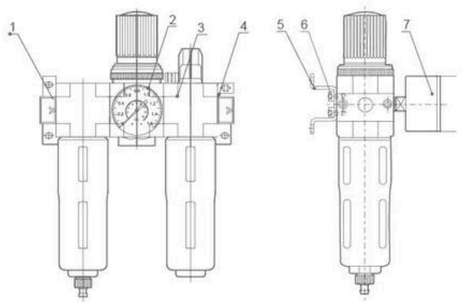
Ordering Code

XO	C	—	MINI	—	1/4	—	□	—	□	—	□	—	□
Series	Function code		Body		Port Size		Grade of Filtration		Manometer		Drain Type		Color
XO Series	F.R.L Combination		MINI MIDI MAXI		G1/8" G1/2" G1/4" G3/4" G3/8" G1"		Blank:40μm 5M:5μm		Blank:12bar 7:7bar		Blank: Turnd Manually S:Half-Auto Drain Type A:Auto Drain Type		Blank:Orange BU:Bule

Specifcation

Model		MINI			MIDI			MAXI	
Manual Drain	Working pressure:12bar,40μm	XOC-1/8-MINI	XOC-1/4-MINI	XOC-3/8-MINI	XOC-3/8-MIDI	XOC-1/2-MIDI	XOC-3/4-MIDI	XOC-3/4-MAXI	XOC-1-MAXI
	Working pressure:7bar,40μm	XOC-1/8-7-MINI	XOC-1/4-D-7-MINI	XOC-3/8-7-MINI	XOC-3/8-7-MIDI	XOC-1/2-7-MIDI	XOC-3/4-7-MIDI	XOC-3/4-7-MAXI	XOC-1-7-MAXI
	Working pressure:12bar,5μm	XOC-1/8-5M-MINI	XOC-1/4-5M-MINI	XOC-3/8-5M-MINI	XOC-3/8-5M-MIDI	XOC-1/2-5M-MIDI	XOC-3/4-5M-MIDI	XOC-3/4-5M-MAXI	XOC-1-5M-MAXI
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4				
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4				
Medium		Compressed air							
Features of structure		Sintered filter with water separator;MINI/MIDI:MAXI:Piston regulator;Diaphragm type regulator;Direct constant-density lubricator							
Mounting type		Pipe mounting or foot mounting							
Assembly position		Vertical ±5°							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	XOC-...(-A)	700	1000	1200	2000	2600	2600	7000	8000
	XOC-...-7-(-A)	800	1300	1500	2500	2800	2800	8500	8700
	XOC-....-5M-(-A)	600	850	1050	1700	1800	2100	6500	7200
Primary pressure	Manualcondensate drain	1~16bar							
	Automatic condensate drain	1.5~12bar							
Working pressure		0.5~12bar/0.5~7bar							
Min.Standard nominal flow rate		3 L/min			6 L/min			10 L/min	
Grade of filtration		40μm/5μm							
Capacity of condensate fluid		22ml			43ml			80ml	
Temperature range		0~60℃							
Materials information		Housing:Zinc die-casting;Filter bowl and oil bowl:PC;Metal bowl guard:Aluminum alloy;Sealing:NBR;Adjusting knob:POM							

Internal structure

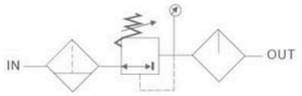


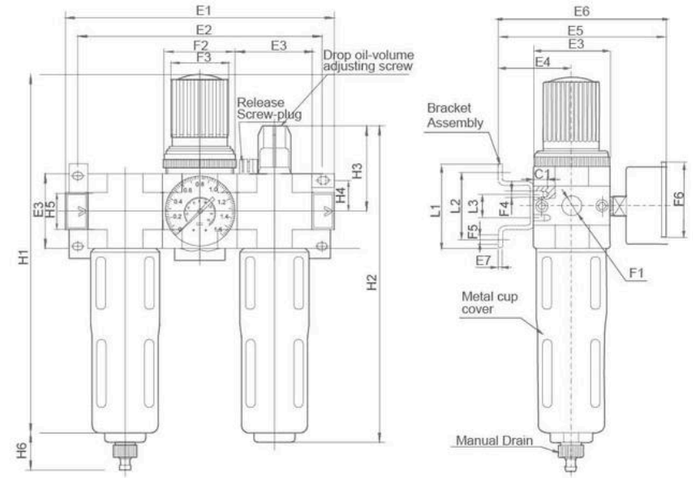
No	Name	Material
1	Flange-IN	Zinc alloy
2	Filter + Regulator	
3	Lubricator	
4	Flange - OUT	Zinc alloy
5	Bracket	SPCC
6	Allen screw	S35C
7	Pressure gauge	

XOC Series Air Source Treatment Unit

Overall Dimensions

Graphic Symbol





Dimension Sheet

Model	E1	E2	E3	E4	E5	E6	E7	F1	F2
XOC-MINI	143	132	40	39	76	95	2	G1/8",G1/4",G3/8"	M36×1.5
XOC-MIDI	193	180	55	47	93	112	3	G3/8",G1/2",G3/4"	M52×1.5
XOC-MAXI	247	220	66	53	104	124	3	G3/4",G1"	M52×1.5

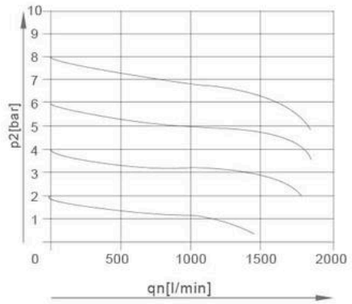
Model	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	H1	H2	H3	H4	H5	H6
XOC-MINI	31	M4	4.5	41	44	35	11	194	169	69	17.5	20	15
XOC-MIDI	50	M5	5.5	352	71	60	22	250	206	97	24.5	32	15
XOC-MAXI	50	M5	5.5	53	71	60	22	272	226	80	24.5	32,40	15

Note: The Color Can Be Customized According to Your Requirement.

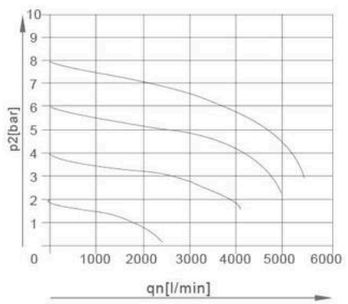
Flow diagram

Standard flow rate qn as a function of the output pressure p2

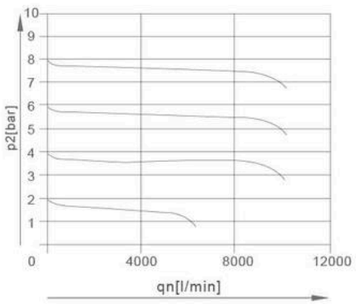
XOC-1/4-MINI



XOC-1/2-MIDI



XOC-1-MAXI



Primary pressure: p1=10 bar

XOU Series Air Source Treatment Unit



The XOU consisted of XOFR and XOL,each unit can be ordered separately.
The XOF with water separator cleans the compressed air of fluid oil,condensation and dirt.
Particles.For special application,the standard 40μm filter element may easily be replaced by a 5μm filter element.
The XOR maintain imputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.The proportional lubricator adds a regulated quantity of oil to the filtered air.The oil-mist content proportional to the flow and oil can be added during operation.
The oil drop rate is controlled by the adjustable bolt.Normally,1to 12 drops/1000L of the air is sufficient

Ordering Code

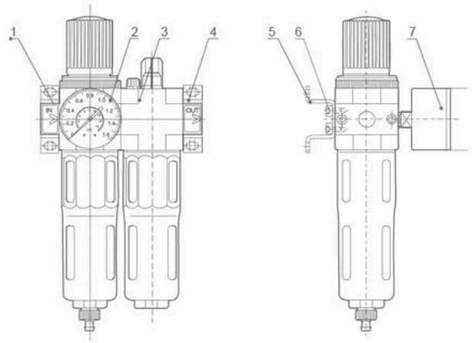
XOU-MINI

XO	U	—	MINI	—	1/4	—	□	—	□	—	□	—	□
Series	Function code		Body		Port Size		Grade of Filtration		Manometer		Drain Type		Color
XO Series	FR.L Combination		MINI MIDI MAXI		G1/8" G1/2" G1/4" G3/4" G3/8" G1"		Blank:40μm 5M:5μm		Blank:12bar 7:7bar		Blank: Turnd Manually S:Half-Auto Drain Type A:Auto Drain Type		Blank:Orange BU:Bule

Specifcation

Model		MINI			MIDI			MAXI	
Manual Drain	Working pressure:12bar,40μm	XOU-1/8-MINI	XOU-1/4-MINI	XOU-3/8-MINI	XOU-3/8-MIDI	XOU-1/2-MIDI	XOU-3/4-MIDI	XOU-3/4-MAXI	XOU-1-MAXI
	Working pressure:7bar,40μm	XOU-1/8-7-MINI	XOU-1/4-D-7-MINI	XOU-3/8-7-MINI	XOU-3/8-7-MIDI	XOU-1/2-7-MIDI	XOU-3/4-7-MIDI	XOU-3/4-7-MAXI	XOU-1-7-MAXI
	Working pressure:12bar,5μm	XOU-1/8-5M-MINI	XOU-1/4-5M-MINI	XOU-3/8-5M-MINI	XOU-3/8-5M-MIDI	XOU-1/2-5M-MIDI	XOU-3/4-5M-MIDI	XOU-3/4-5M-MAXI	XOU-1-5M-MAXI
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4				
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4				
Medium		Compressed air							
Features of structure		Sintered filter with water separator;MINI/MIDI:MAXI:Piston regulator;Diaphragm type regulator;Direct constant-density lubricator							
Mounting type		Pipe mounting or foot mounting							
Assembly position		Vertical ±5°							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	XOU-...(-A)	700	1000	1200	2000	2600	2600	7000	8000
	XOU-...-7-(-A)	800	1300	1500	2500	2800	2800	8500	8700
	XOU-...-5M-(-A)	600	850	1050	1700	1800	2100	6500	7200
Primary pressure	Manualcondensate drain	1~16bar							
	Automatic condensate drain	1.5~12bar							
Working pressure		0.5~12bar/0.5~7bar							
Min.Standard nominal flow rate		3 L/min			6 L/min			10 L/min	
Grade of filtration		40μm/5μm							
Capacity of condensate fluid		22ml			43ml			80ml	
Temperature range		0~60℃							
Materials information		Housing:Zinc die-casting;Filter bowl and oil bowl:PC;Metal bowl guard:Aluminum alloy;Sealing:NBR;Adjusting knob:POM							

Internal structure

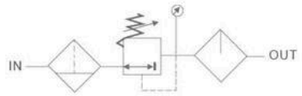


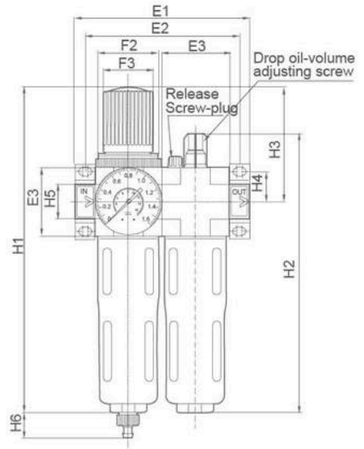
No	Name	Material
1	Flange-IN	Zinc alloy
2	Filter + Regulator	
3	Lubricator	
4	Flange - OUT	Zinc alloy
5	Bracket	SPCC
6	Allen screw	S35C
7	Pressure gauge	

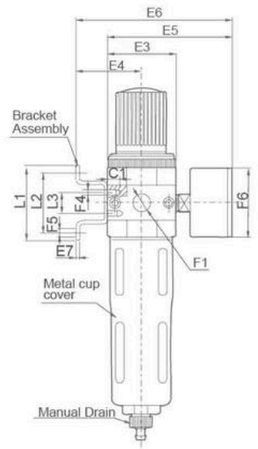
XOU Series Air Source Treatment Unit

Overall Dimensions

Graphic Symbol







Dimension Sheet

Model	E1	E2	E3	E4	E5	E6	E7	F1	F2
XOU-...-MINI	104	92	40	39	76	95	2	G1/8",G1/4",G3/8"	M36×1.5
XOU-...-MIDI	140	125	55	47	93	112	3	G3/8",G1/2",G3/4"	M52×1.5
XOU-...-MAXI	162,182	146,157	66	53	104	124	3	G3/4",G1"	M52×1.5

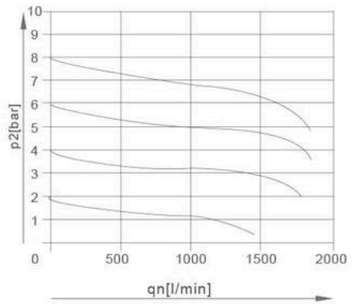
Model	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	H1	H2	H3	H4	H5	H6
XOU-...-MINI	31	M4	4.5	41	44	35	11	194	169	69	17.5	20	15
XOU-...-MIDI	50	M5	5.5	352	71	60	22	250	206	97	24.5	32	15
XOU-...-MAXI	50	M5	5.5	53	71	60	22	272	226	80	24.5	32,40	15

Note: The Color Can Be Customized According to Your Requirement.

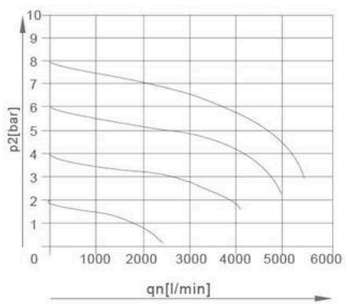
Flow diagram

Standard flow rate qn as a function of the output pressure p2

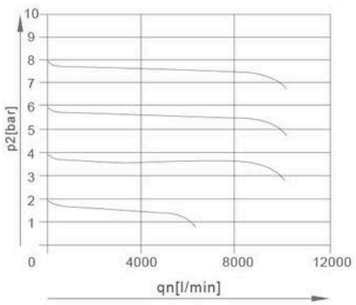
XOU-1/4-MINI



XOU-1/2-MIDI



XOU-1-MAXI



Primary pressure: p1=10 bar

XOFR Series Filter & Regulator



XOFR-MINI

Filter and pressure regulator combine a single unit,and cleans the compressed air of fluid oil,condensation and dirt particles.For special application,the standard 40μm filter element may easily be replaced by a 5μm filter element.
The XOR maintain im putting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.

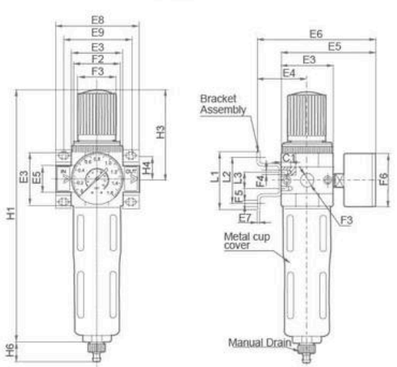
Ordering Code

XO	FR	–	MINI	–	1/4	–	□	–	□	–	□	–	□
Series	**Function code**		**Body**		**Port Size**		**Grade of Filtration**		**Manometer**		**Drain Type**		**Color**
XO Series	Filter&Regulator		MINI MIDI MAXI		G1/8" G1/2" G1/4" G3/4" G3/8" G1"		Blank:40μm 5M:5μm		Blank:12bar 7:7bar		Blank: Turnd Manually S:Half-Auto Drain Type A:Auto Drain Type		Blank:Orange BU:Bule

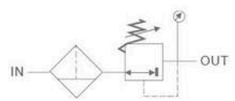
Specifcation

Model		MINI			MIDI			MAXI	
Manual Drain	Working pressure:12bar,40μm	XOFR-1/8-MINI	XOFR-1/4-MINI	XOFR-3/8-MINI	XOFR-3/8-MIDI	XOFR-1/2-MIDI	XOFR-3/4-MIDI	XOFR-3/4-MAXI	XOFR-1-MAXI
	Working pressure:7bar,40μm	XOFR-1/8-7-MINI	XOFR-1/4-D-7-MINI	XOFR-3/8-7-MINI	XOFR-3/8-7-MIDI	XOFR-1/2-7-MIDI	XOFR-3/4-7-MIDI	XOFR-3/4-7-MAXI	XOFR-1-7-MAXI
	Working pressure:12bar,5μm	XOFR-1/8-5M-MINI	XOFR-1/4-5M-MINI	XOFR-3/8-5M-MINI	XOFR-3/8-5M-MIDI	XOFR-1/2-5M-MIDI	XOFR-3/4-5M-MIDI	XOFR-3/4-5M-MAXI	XOFR-1-5M-MAXI
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4				
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4				
Medium		Compressed air							
Features of structure		Sintered filter with water separator;MINI/MIDI:MAXI:Piston regulator;							
Mounting type		Pipe mounting or foot mounting							
Assembly position		Vertical ±5°							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	XOFR-...(-A)	750	1400	1600	3100	3400	3400	9000	10000
	XOFR-...-7-(-A)	900	1500	1700	3400	3900	3900	9500	16000
	XOFR-...-5M-(-A)	650	1200	1350	2400	2500	2500	7300	7600
Primary pressure	Manualcondensate drain	1~16bar							
	Automatic condensate drain	1.5~12bar							
Working pressure		0.5~12bar/0.5~7bar							
Grade of filtration		40μm/5μm							
Max.Condensate Capacity		22ml			43ml			80ml	
Temperature range		0~60℃							
Materials information		Housing:Zinc die-casting;Filter bowl: PC;Metal bowl guard:Aluminum alloy;Sealing:NBR;Adjusting knob:POM							

Overall Dimensions



Graphic Symbol



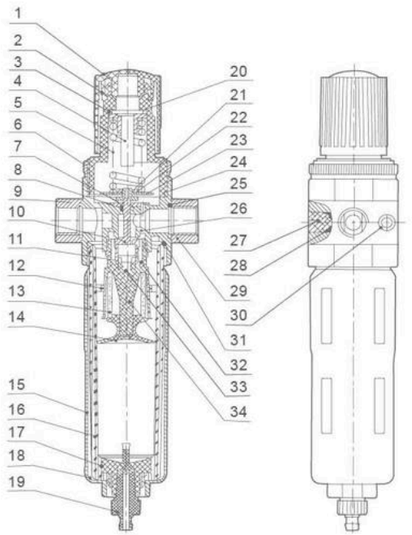
Dimension Sheet

Model	E3	E4	E5	E6	E8	E9	F1	F2
XOFR-...-MINI	40	39	76	95	64	52	G1/8",G1/4",G3/8"	M36×1.5
XOFR-...-MIDI	55	47	93	112	85	70	G3/8",G1/2",G3/4"	M52×1.5
XOFR-...-MAXI	66	53	104	124	116	91	G3/4",G1"	M52×1.5

Model	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	H1	H3	H4	H5	H6
XOFR-...-MINI	31	M4	4.5	41	44	35	11	194	69	17.5	20	15
XOFR-...-MIDI	50	M5	5.5	52	73	60	22	250	98	24.5	32	15
XOFR-...-MAXI	50	M5	5.5	53	73	60	22	272	80	24.5	32,40	15

XOFR Series Filter & Regulator

Internal structure

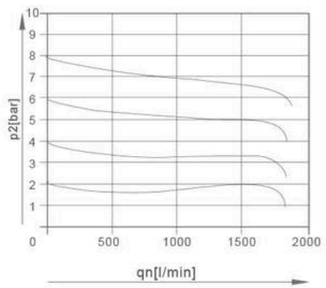


No	Name	Material	No	Name	Material
1	Pressure knob	POM	18	Inner joint	POM
2	Regulator cap	POM	19	Condensate drain	POM
3	Regulator nut	S35C	20	Wearing sheet	Insulation sheet
4	Adjusting spindle	S35C	21	OR Sheet	NBR
5	Pressure spring	SWC	22	Overflow base	6061-T6
6	Fixed ring	6061-T6	23	One part of diaphragm	SPCC
7	One part of membrane	PA6+G15	24	Diaphragm	NBR+Nylon Mesh
8	O-ring	NBR	25	O-ring	NBR
9	Flange-IN	Zinc alloy	26	OR Body	Zinc alloy
10	Spool	Brass	27	Plug	POM
11	O-ring	NBR	28	O-ring	NBR
12	Whirl wind impeller	POM	29	Flange-OUT	Zinc alloy
13	Filter element	PE	30	Allen screw	S35C
14	Manger	POM	31	O-ring	NBR
15	Metal bowl guard	Aluminum alloy	32	Spring	SWPB
16	Filter bowl	PC	33	Fasteners	Brass
17	O-ring	NBR	34	Filter element base	POM

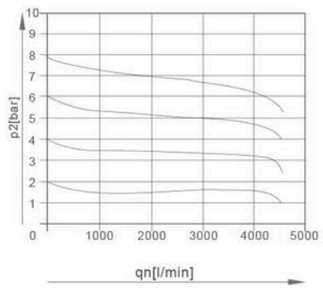
Flow diagram

Standard flow rate qn as a function of the output pressure p2

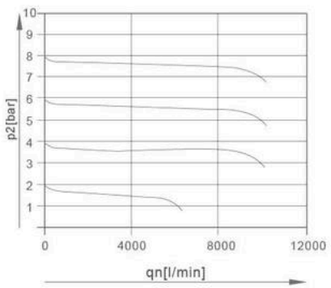
XOFR1/4-MINI



XOFR-1/2-MIDI



XOFR-1-MAXI



Primary pressure: p1=10 bar

XOR Series Regulator



XOR-MINI

The XOR maintain imputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.

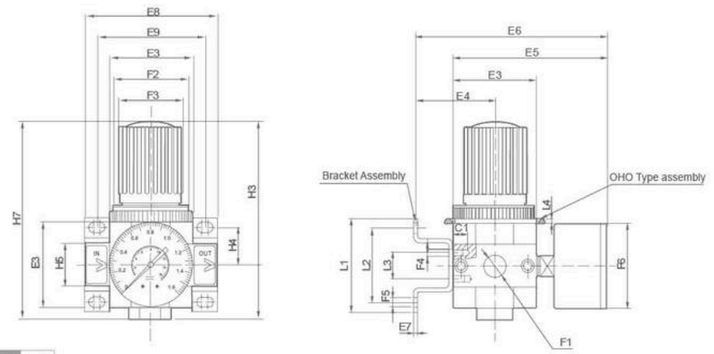
Ordering Code

XO	R	—	MINI	—	1/4	—	□	—	□
Series	**Function code**		**Body**		**Port Size**		**Manometer**		**Color**
XO Series	Regulator		MINI MIDI MAXI		G1/8" G1/4" G3/8" G1/2" G3/4" G1"		Blank:12bar 7:7bar		Blank:Orange BU:Bule

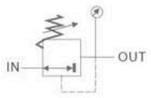
Specifcation

Model		MINI			MIDI			MAXI	
Working pressure 12bar		XOR-1/8-MINI	XOR-1/4-MINI	XOR-3/8-MINI	XOR-3/8-MIDI	XOR-1/2-MIDI	XOR-3/4-MIDI	XOR-3/4-MAXI	XOR-1-MAXI
Working pressure 7bar		XOR-1/8-7-MINI	XOR-1/4-7-MINI	XOR-3/8-7-MINI	XOR-3/8-7-MIDI	OXR-1/2-7-MIDI	XOR-3/4-7-MIDI	XOR-3/4-7-MAXI	XOR-1-7-MAXI
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4				
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4				
Medium		Filttered,compressed air(lubricated or unlubricated)							
Features of structure		MINI/MIDI:Diaphragm type regulator;MAXI: Piston regulator							
Mounting type		Pipe/foot/Plate mounting							
Assembly position		Any							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	XOR-...	800	1500	1700	3200	3500	3500	11000	11500
	XOR-...-7-	1000	1600	1800	3300	4000	4500	12000	12500
Primary pressure		1~16bar							
Working pressure		0.5~12bar/0.5~7bar							
Temperature range		0~60℃							
Materials information		Housing:Zinc die-casting; Sealing:NBR; Adjusting knob:POM							

Overall Dimensions



Graphic Symbol

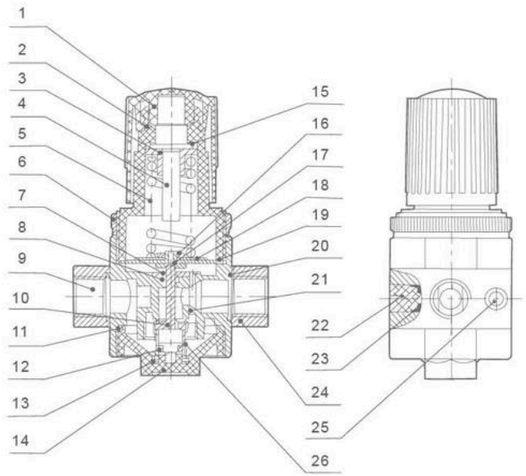


Dimension Sheet

Model	E3	E4	E5	E6	E8	E9	F1	F2	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	L4	H3	H4	H7
XOR-...-MINI	40	39	76	95	64	52	G1/8",G1/4",G3/8"	M36×1.5	31	M4	4.5	41	44	35	11	Max.3	69	17.5	96
XOR-...-MIDI	55	47	93	112	85	70	G3/8",G1/2",G3/4"	M52×1.5	50	M5	5.5	52	73	60	22	Max.5	98	24.5	96
XOR-...-MAXI	66	53	104	124	96,116	80,91	G3/4",G1"	M52×1.5	31	M5	5.5	53	73	60	22	Max.4	80	24.5	96

XOR Series Regulator

Internal structure

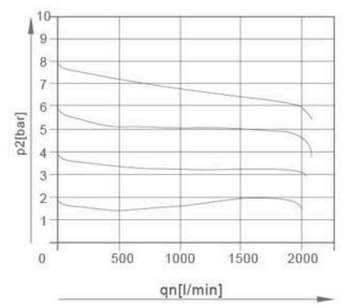


No	Name	Material
1	Pressure knob	POM
2	Regulator cap	POM
3	Regulator nut	S35C
4	Adjusting spindle	S35C
5	Pressure spring	SWC
6	Fixed ring	6061-T6
7	One part of membrane	NBR
8	O-ring	NBR
9	Flange-IN	Zinc alloy
10	Spool	Brass
11	O-ring	NBR
12	O-ring	NBR
13	Fasteners	Brass
14	Locker cover	Zinc alloy
15	Wearing sheet	Insulation sheet
16	OR Sheet	NBR
17	Overflow base	6061-T6
18	One part of diaphragm	SPCC
19	Diaphragm	NBR+Nylon Mesh
20	O-ring	NBR
21	OR Body	Zinc alloy
22	Plug	POM
23	O-ring	NBR
24	Flange-OUT	Zinc alloy
25	Allen screw	S35C
26	Spring	SWPB

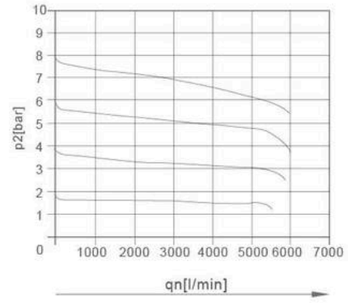
Flow diagram

Standard flow rate qn as a function of the output pressure p2

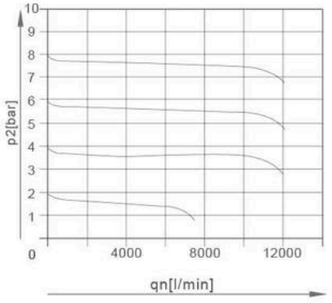
XOR-1/4-MINI



XOR-1/2-MIDI



XOR-1-MAXI



Primary pressure: p1=10 bar

XOF Series Air Filter



The OF with water separator cleans the compressed air of fluid oil,condensation and dirt particles,for special application,the standard 40μm filter element may easily be replaced by a 5μm filter relement.

XOF-MINI

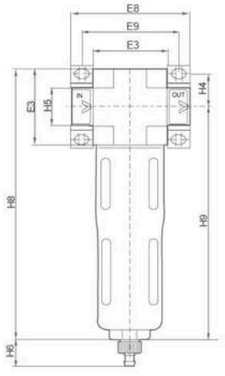
Ordering Code

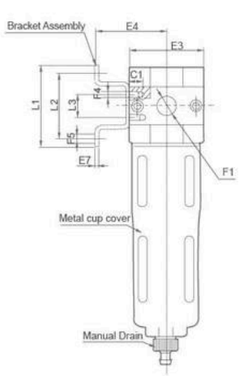
XO	F	—	MINI	—	1/4	—	□	—	□	—	□
Series	**Function code**		**Body**		**Port Size**		**Grade of Filtration**		**Drain Type**		**Color**
XO Series	Filter		MINI MIDI MAXI		G1/8" G1/4" G3/8" G1/2" G3/4" G1"		Blank:40μm 5M:5μm		Blank: Turnd Manually S:Half-Auto Drain Type A:Auto Drain Type		Blank:Orange BU:Bule

Specifcation

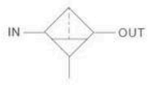
Model		MINI			MIDI			MAXI	
40μm	Manual Drain	XOF-1/8-MINI	XOF-1/4-MINI	XOF-3/8-MINI	XOF-3/8-MIDI	XOF-1/2-MIDI	XOF-3/4-MIDI	XOF-3/4-MAXI	XOF-1-MAXI
5μm		XOF-1/8-5M-MINI	XOF-1/4-5M-MINI	XOF-3/8-5M-MINI	XOF-3/8-5M-MIDI	XOF-1/2-5M-MIDI	XOF-3/4-5M-MIDI	XOF-3/4-5M-MAXI	XOF-1-5M-MAXI
Medium		Compressed air							
Features of structure		Sintered filter with water spartor							
Mounting type		Pipe mounting or foot mounting							
Assembly position		Vertical ±5°							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard flow rate nominal	XOF-...	1000	1200	1400	2700	3000	3000	5000	5300
	XOF-...-5M	600	950	1100	1800	1900	1900	3200	3300
Primary pressure	Manual drain	1~16bar							
Grade of filtration		40μm/5μm							
Max.condensate capacity		22ml			43ml			80ml	
Max.condensate capacity		0~60℃							
Materials information		Housing:Zinc die-casting;Filter bowl :PC;Metal bowl guard: Aluminum alloy;Sealing:NBR							

Overall Dimensions





Graphic Symbol

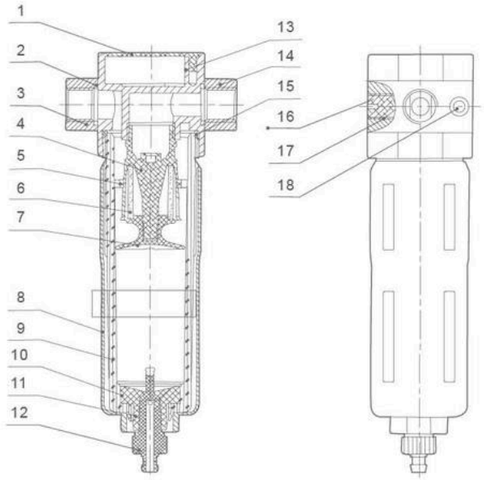


Dimension Sheet

Model	E3	E4	E7	E8	E9	F1	F4	F5Φ	L1	L2	L3	H4	H5	H6	H8	H9
XOF-...-MINI	40	39	2	64	52	G1/8",G1/4",G3/8"	M4	4.5	44	35	11	17.5	20	15	144	124
XOF-...-MIDI	55	47	3	85	70	G3/8",G1/2",G3/4"	M5	5.5	71	60	22	30	32	15	180	153
XOF-...-MAXI	66	53	3	96,116	80,91	G3/4",G1"	M5	5.5	71	60	22	30	32,40	15	203	170

XOF Series Air Filter

Internal structure

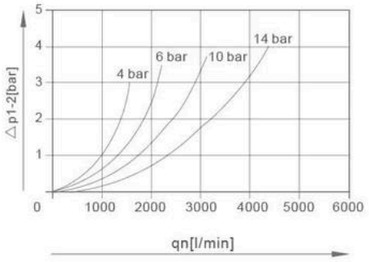


No	Name	Material
1	Ornament cover(round)	POM
2	O-ring	NBR
3	Flange-IN	Zinc alloy
4	Filter element base	POM
5	Whirl wind impeller	POM
6	Filter element	PE
7	Manger	POM
8	Metal bowl guard	Aluminum alloy
9	Filter bowl	PC
10	O-ring	NBR
11	Inner joint	POM
12	Condensate drain	POM
13	OF Body	Zinc alloy
14	Flange-OUT	Zinc alloy
15	O-ring	NBR
16	Plug	POM
17	O-ring	NBR
18	Allen screw	S35C

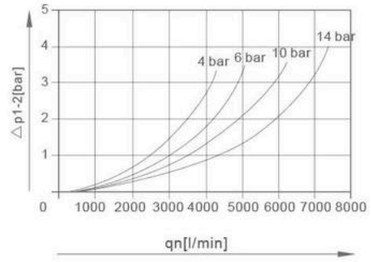
Flow diagram

Standard flow rate qn as a function of the output pressure p2

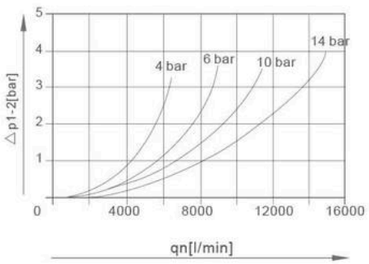
XOF-1/4-MINI



XOF-1/2-MIDI



XOF-1-MAXI



Primary pressure: p1=10 bar

XOL Series Lubricator



XOL-MINI

The direct constant-density lubricator add regulatd quantity oil to the compressed air.A valve maintains oil mist content proportional to the compressed oil flow.
The pressure drop that occurs when the air flow through a sight feed oil cup delives oil from the bowl to the sight oil indicator.The drop of the oil flows into the air channel when it is atomized.
The oil drop rate is controlled by means of the regulating screw.Normally,1 to 12 drops/1000L of the air is sufficient.

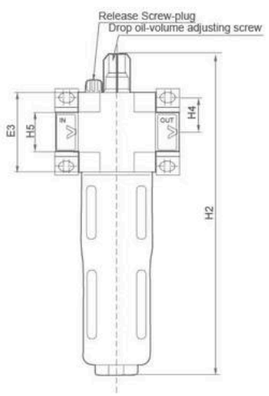
Ordering Code

XO	L	—	MINI	—	1/4	—	□
Series	**Function code**		**Body**		**Port Size**		**Color**
XO Series	Lubricator		MINI MIDI MAXI		G1/8" G1/2" G1/4" G3/4" G3/8" G1"		Blank:Orange BU:Bule

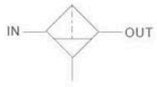
Specifcation

Model	MINI			MIDI			MAXI	
	XOL-1/8-MINI	XOL-1/4-MINI	XOL-3/8-MINI	XOL-3/8-MIDI	XOL-1/2-MIDI	XOL-3/4-MIDI	XOL-3/4-MAXI	XOL-1-MAXI
Medium	Compressed air							
Features of structure	Sintered filter with water spartor The direct Constant-density Lubricator							
Mounting type	Pipe mounting or foot mounting							
Assembly position	Vertical ±5°							
Connection	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	1300	2300	2700	5500	6100	6300	8400	9000
Max.Working pressure	16bar							
Min.Standard nominal flow rate	3 L/min			6 L/min			10 L/min	
Max.condensate capacity	22ml			43ml			80ml	
Temperature range	0~60℃							
Materials information	Housing:Zinc die-casting;Oil bowl and Drop cap :PC;Metal bowl guard:Aluminum alloy;Sealing:NBR							
Recommended oil	ISO VG 32 or the same grade							

Overall Dimensions



Graphic Symbol

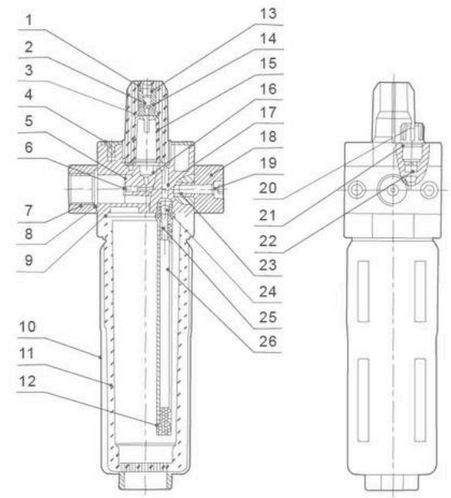


Dimension Sheet

Model	E3	E4	E7	F1	F4	F5φ	L1	L2	L3	H2	H4	H5
XOL-...-MINI	40	39	2	G1/8",G1/4",G3/8"	M4	4.5	44	35	11	169	17.5	20
XOL-...-MIDI	55	47	3	G3/8",G1/2",G3/4"	M5	5.5	73	60	22	206	30	32
XOL-...-MAXI	66	53	3	G3/4",G1"	M5	5.5	73	60	22	226	30	32,40

XOL Series Lubricator

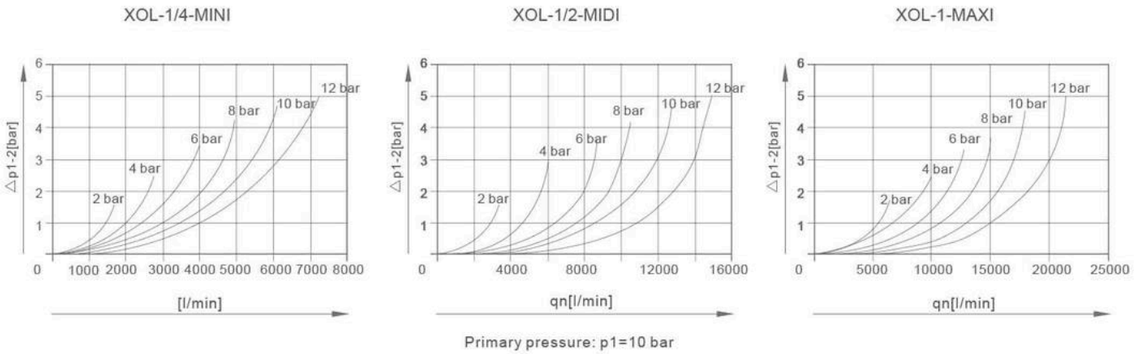
Internal structure



No	Name	Material
1	Upper glass	PC
2	Adjust screw	Brass
3	O-ring	NBR
4	Ornament cover(circular)	PO
5	Windshield chip	NBR
6	Windshield base	Brass
7	Flange-IN	Zinc alloy
8	O-ring	NBR
9	O-ring	NBR
10	Metal bowl guard	Aluminum alloy
11	Lubricator bowl	PC
12	Oil-filter plup	Brass powder sintered
13	O-ring	NBR
14	Screw base	Brass
15	Oil dropping	PC
16	Seal piece	NBR
17	OL Body	Zinc alloy
18	Flange-OUT	Zinc alloy
19	Allen screw	S35C
20	Bleeder screw	POM
21	O-ring	NBR
22	Valve pin	Brass
23	Double-end bolt	SUS
24	Steel ball	SUS304
25	Oil tube connection	POM
26	Oil tube	PU

Flow diagram

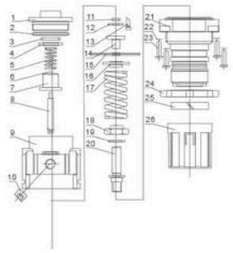
Standard flow rate qn as a function of the output pressure p2

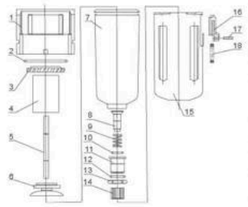


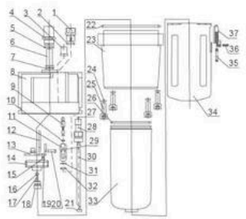
Primary pressure: p1=10 bar

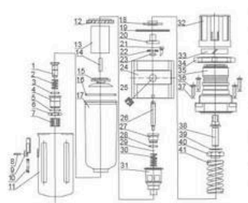
XA Series Air Source Treatment Unit

F.R.L Part list

XAR3000	No	Name	Qty	Material
	1	Regulator seat	1	ZZnA14-1
	2	O-ring	1	NBR
	3	O-ring	1	NBR
	4	Washer	1	Carbon steel
	5	Spring	1	Stainless steel
	6	Retainer ring	1	Carbon steel
	7	Valve core	1	Brass
	8	Spool	1	Brass+NBR
	9	Regulator Body	1	Aluminum
	10	Plug	1	Carbon steel
	11	O-ring	1	NBR
	12	Retainer ring	1	Carbon steel
	13	Pipe	1	POM
	14	Diaphragm seat	1	Brass
	15	Diaphragm	1	NBR
	16	Spring seat	1	Carbon steel
	17	Spring	1	Carbon steel
	18	Regulate Nut	1	Carbon steel
	19	Washer	1	POM
	20	Regulate bolt	1	Carbon steel
	21	Valve cover	1	Reinforce nylon
	22	Spring washer	4	Carbon steel
	23	Cross screw	4	Carbon steel
	24	Nut	1	Reinforce nylon
	25	Symbol ring	1	Reinforce nylon
	26	Regulate handle	1	Reinforce nylon

XAF3000	No	Name	Qty	Material
	1	Regulator Body	1	Aluminum
	2	O-ring	1	NBR
	3	Whirlwing blade	1	ABS
	4	Filter Element	1	Brass
	5	Bolt blard	1	Carbon Steel
	6	Drain blard	1	ABS
	7	Water cup	1	Poly Carbonate
	8	Valve Core	1	Brass
	9	Spring	1	Stainless steel
	10	O-ring	1	NBR
	11	Drain valve	1	Brass
	12	O-ring	1	NBR
	13	Hex Nut	1	Brass
	14	Nut	1	Brass
	15	Bowl guard	1	Carbon steel
	16	Spring	1	Carbon steel
	17	Pin	1	ABS
	18	Lock	1	ABS

XAL3000	No	Name	Qty	Material
	1	Plug	1	ABS
	2	O-ring	1	NBR
	3	Oil regulate Screw	1	ABS
	4	Oil drop tube	1	Polycarbonate
	5	O-ring	1	NBR
	6	Oil drop tube	1	Polycarbonate
	7	O-ring	1	NBR
	8	Lubricator Body	1	Aluminum
	9	Regulate needle	1	Brass
	10	O-ring	1	NBR
	11	Oil regulate valve seat	1	Brass
	12	Reed	1	Poly ure thane
	13	Reed seat	1	ZZnA14-1
	14	Bracket	1	ZZnA14-1
	15	Small hole seat	1	Brass
	16	Steel Ball	1	Carbon steel
	17	Spring	1	Stainless steel
	18	One way valve seat	1	Brass
	19	Reed seat board	1	ZZnA14-1
	20	Screw	2	Carbon steel
	21	Filter Element	1	NBR
	22	O-ring	1	NBR
	23	Middle Part	1	Aluminum
	24	Spring washer	4	Carbon steel
	25	Hex Screw	4	Carbon steel
	26	O-ring	1	NBR
	27	Steel Ball	1	Carbon steel
	28	Fitting	1	POM
	29	Pin	1	Carbon steel
	30	Oil tube	1	PU
	31	O-ring	1	NBR
	32	O-ring	1	NBR
	33	Oil cup	1	Polycarbonate
	34	Bowl guard	1	Carbon steel
	35	Spring	1	Stainless steel
	36	Pin	1	ABS
	37	Lock	1	ABS

XAW3000	No	Name	Qty	Material
	1	Valve core	1	Brass
	2	Spring	1	Stainless steel
	3	O-ring	1	NBR
	4	Drain valve	1	Brass
	5	O-ring	1	NBR
	6	Hex Nut	1	Brass
	7	Nut	1	Brass
	8	Pin	1	ABS
	9	Lock	1	ABS
	10	Spring	1	Stain Steel
	11	Bowl guard	1	Carbon steel
	12	Whirlwing blade	1	ABS
	13	Filter element	1	Brass
	14	Bolt	1	Carbon Steel
	15	Drain board	1	ABS
	16	O-ring	1	Brass
	17	Water cup	1	Polycarbonate
	18	Diaphragm Pollet	1	Carbon steel
	19	Diaphragm	1	NBR
	20	Diaphragm seat	1	Brass
	21	Pipe	1	POM
	22	Retainer ring	1	Carbon steel
	23	O-ring	1	NBR
	24	Regulator Body	1	Aluminum
	25	Plug	1	Carbon steel
	26	Spool	1	Brass+NBR
	27	Valve core	1	Brass
	28	O-ring	1	NBR
	29	Retainer ring	1	Carbon steel
	30	Spring	1	Stain steel
	31	Overflow valve seat	1	ZZnA14-1
	32	Regulate handle	1	Reinforce nylon
	33	Symbol ring	1	Reinforce nylon
	34	Nut	1	Reinforce nylon
	35	Valve cover	1	Reinforce nylon
	36	Cross screw	4	Carbon steel
	37	Spring washer	4	Carbon steel
	38	Regulate Bolt	1	Carbon steel
	39	Washer	1	POM
	40	Regulate Nut	1	Carbon steel
	41	Spring	1	Carbon steel

XAC1000~5000 Series Air Source Treatment Unit(F.R.L Combination)



XAC5000-10



XAC4000-04

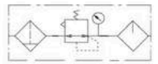


XAC2000-02



XAC1000-M5

Graphic Symbol



Ordering Code

XA — C — 4000 — 04 — □ — □ — □

Series
XA series

Function code
F.R.L Comblnation

Body Size
1000
2000
3000
4000
5000

Port Size
M5:M5×0.8
01:G1/8"
02:G1/4"
03:G3/8"
04:G1/2"
06:G3/4"
10:G1"

Drain Type
Blank:Manual Drain Type
D:Auto Drain Type

Metal Cup
U: With Iron Cup
L: With Aluminum Cup (Available for 2000 or above)

Color
Blank:Standard
W:White

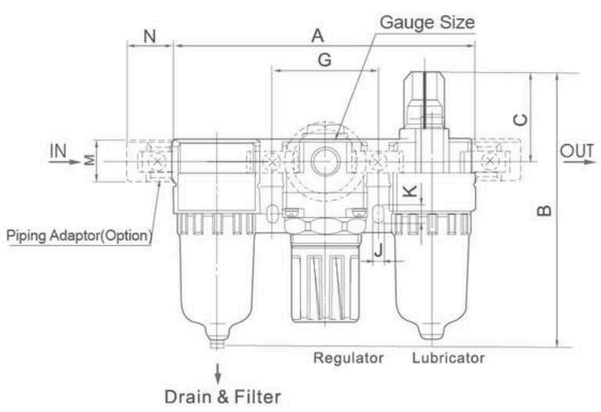
Specifcation

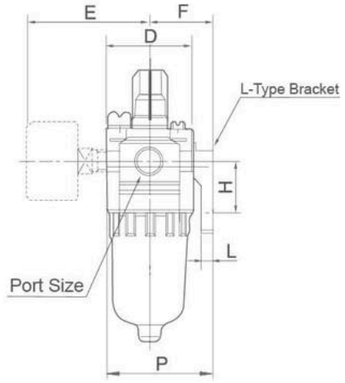
Model		XAC1000-M5	XAC2000-01	XAC2000-02	XAC3000-02	XAC3000-03	XAC4000-03	XAC4000-04	XAC4000-06	XAC5000-06	XAC5000-10
Rated Flow(L/min)		90	500	500	2000	2000	4000	4000	4500	5000	5000
Port Size		M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision		25μ									
Highest Working Pressure		1.0MPa									
Ensured pressure Resistance		1.5MPa									
Operating Temperature Range		5~60℃									
Range of Adjustable Pressure		0.05~0.7MPa				0.05~0.85MPa					
Recommended Oil Use		ISO VG 32									
Container Material		Polycarbonate									
Protective Cover		Not Available				Available					
Drain Function		Differential Drain				Differential Drain/Automatic Drain					
Valve Type		With Over flow									
Composing Elements	Filter	XAF1000-M5	XAF2000-01	XAF2000-02	XAF3000-02	XAF3000-03	XAF4000-03	XAF4000-04	XAF4000-06	XAF5000-06	XAF5000-10
	Regulator	XAR1000-M5	XAR2000-01	XAR2000-02	XAR3000-02	XAR3000-03	XAR4000-03	XAR4000-04	XAR4000-06	XAR5000-06	XAR5000-10
	Lubricator	XAL1000-M5	XAL2000-01	XAL2000-02	XAL3000-02	XAL3000-03	XAL4000-03	XAL4000-04	XAL4000-06	XAL5000-06	XAR5000-10

■ Note:We have upgraded Oil Drop Accessories on Lubricator of XA series 2000-5000 same to the XO series.

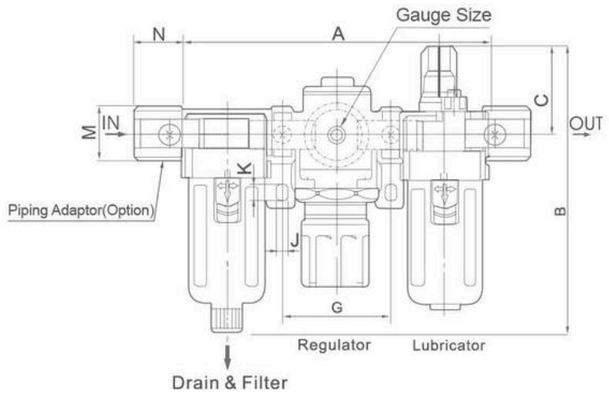
XAC1000~5000 Series Air Source Treatment Unit(F.R.L Combination)

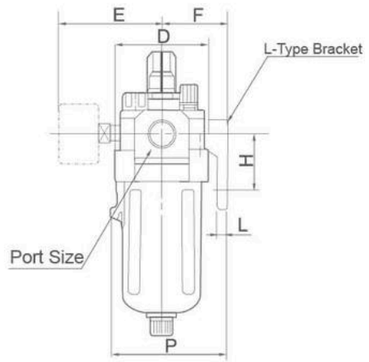
Overall Dimensions





XAC1010~2010





XAC3000~5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAC1000	M5	91	84.5	25.5	25	26	25	33	20	4.5	7.5	5	17.5	16	38.5
XAC2000	G1/8" ~G1/4"	140	128.5	38	40	56.8	30	50	24	5.5	8.5	5	22	23	50
XAC3000	G1/4" ~G3/8"	181	166	38	53	60.8	41	64	35	7	11	7	34.2	26	70.5
XAC4000	G3/8" ~1/2"	238	201	41	70	65.5	50	84	40	9	13	7	42.2	33	88
XAC4000-06	G3/4"	253	201	40.5	70	69.5	50	89	40	9	13	7	46.2	36	88
XAC5000	G3/4" ~G1"	300	276	48	90	75.5	70	105	50	12	16	10.5	55.5	40	115

XAC1010~5010 Series Air Source Treatment Unit(FR.L Combination)



XAC5010-10



XAC4010-04

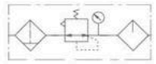


XAC2010-02



XAC2000-02L

Graphic Symbol



Ordering Code

XA — C — 4000 — 04 — □ — □ — □

Series
XA series

Function code
F.R.L Combination

Body Size
1010
2010
3010
4010
5010

Port Size
M5:M5×0.8
01:G1/8"
02:G1/4"
03:G3/8"
04:G1/2"
06:G3/4"
10:G1"

Drain Type
Blank:Manual Drain Type
D:Auto Drain Type (Available for 2000 or above)

Metal Cup
U: With Iron Cup
L: With Aluminum Cup (Available for 2000)

Color
Blank:Standard
W:White

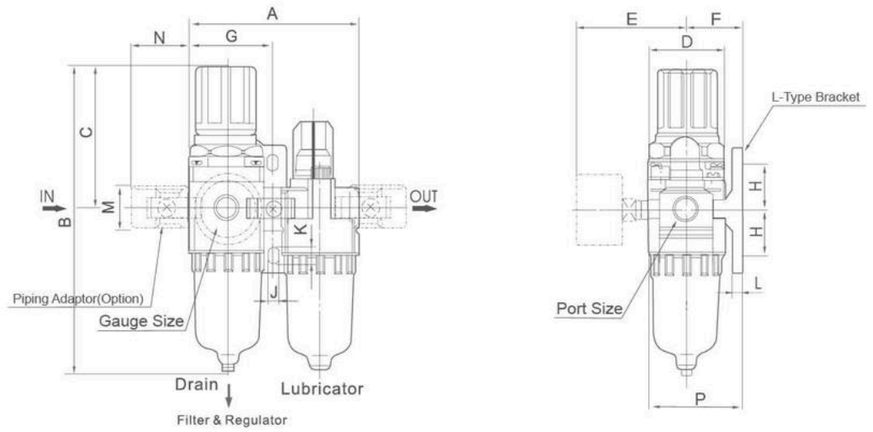
Specifcation

Model		XAC1010 -M5	XAC2010 -01	XAC2010 -02	XAC3010 -02	XAC3010 -03	XAC4010 -03	XAC4010 -04	XAC4010 -06	XAC5010 -06	XAC5010 -10
Rated Flow(L/min)		90	500	500	1700	1700	3000	3000	3000	4000	4000
Port Size		M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision		25μ									
Highest Working Pressure		1.0MPa									
Ensured pressure Resistance		1.5MPa									
Operating Temperature Range		5~60℃									
Range of Adjustable Pressure		0.05~0.7MPa	0.05~0.85MPa								
Recommended Oil Use		ISO VG 32									
Container Material		Polycarbonate									
Protective Cover		Not Available	Available								
Drain Function		Differential Drain	Differential Drain/Automatic Drain								
Valve Type		With Over flow									
Composing Elements	Filter&Regulator	XAW1000-M5	XAW2000-01	XAW2000-02	XAW3000-02	XAW3000-03	XAW4000-03	XAW4000-04	XAW4000-06	XAW5000-06	XAW5000-10
	Lubricator	XAL1000-M5	XAL2000-01	XAL2000-02	XAL3000-02	XAL3000-03	XAL4000-03	XAL4000-04	XAL4000-06	XAL5000-06	XAL5000-10

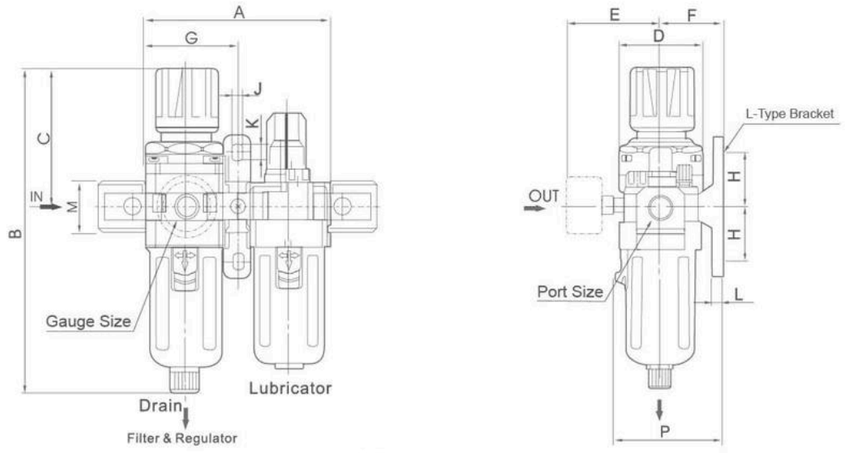
■ Note:We have upgraded Oil Drop Accessories on Lubricator of XA series 2000-5000 same to the XO series.

XAC1010~5010 Series Air Source Treatment Unit(FR.L Combination)

Overall Dimensions



XAC1010~2010



XAC3010~5010

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAC1010	M5	58	109.5	50.5	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5
XAC2010	G1/8" ~G1/4"	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50
XAC3010	G1/4" ~G3/8"	117	211	92.5	53	60.8	41	58.5	35	7	11	7	34.2	26	70.5
XAC4010	G3/8" ~1/2"	154	262	112	70	70.5	50	77	40	9	13	7	42.2	33	88
XAC4010-06	G3/4"	164	267	114	70	70.5	50	82	40	9	13	7	46.2	36	88
XAC5010	G3/4" ~G1"	195	338	116	90	75.5	69.8	97.5	50	12	16	10.5	55.5	40	115

XAF1000~5000 Series Air Filter



XAF5000-10



XAF4000-04



XAF2000-02

Ordering Code

XA	F	4000	—	04	□	—	□	—	□

Series
XA Series

Function code
Filter

Body Size
1000
2000
3000
4000
5000

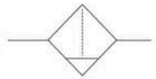
Port Size
M5:M5×0.8
01:G1/8"
02:G1/4"
03:G3/8"
04:G1/2"
06:G3/4"
10:G1"

Drain Type
Blank:Manual Drain Type
D:Auto Drain Type (Available for 2000 or above)

Metal Cup
U: With Iron Cup
L: With Aluminum Cup (Available for 2000)

Color
Blank:Standard
W:White

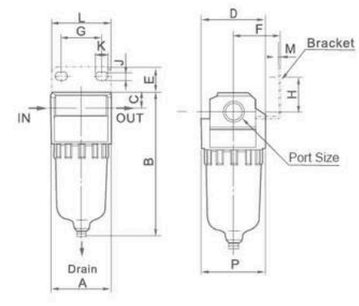
Graphic Symbol



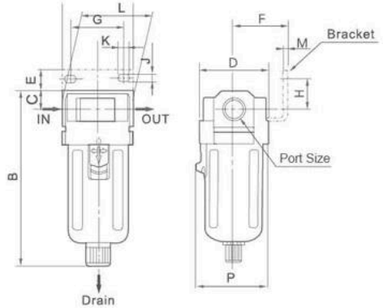
Specifcation

Model	XAF1000 -M5	XAF2000 -01	XAF2000 -02	XAF3000 -02	XAF3000 -03	XAF4000 -03	XAF4000 -04	XAF4000 -06	XAF5000 -06	XAF5000 -10
Rated Flow(L/min)	110	750	750	1500	1500	4000	4000	6000	7000	7000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision	25μ									
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60℃									
Container Material	Polycarbonate									
Protective Cover	Not Available	Available								
Drain Function	Differential Drain	Differential Drain,Automatic Drain								

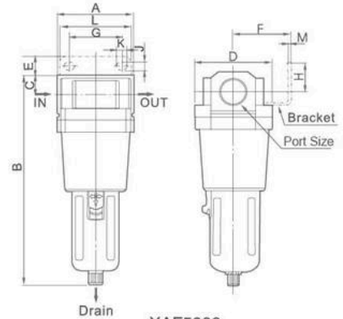
Overall Dimensions



XAF1000~2000



XAF3000~4000



XAF5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
XAF1000	M5	25	66	7	25	-	-	-	-	-	-	-	-	26.5
XAF2000	G1/8" ~G1/4"	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40
XAF3000	G1/4" ~G3/8"	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56
XAF4000	G3/8" ~1/2"	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73
XAF4000-06	G3/4"	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73
XAF5000	G3/4" ~G1"	90	247.5	24	90	23	66.5	66	35	11	13	90	3.2	90

XAR 1000~5000 Series Regulator

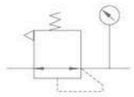


XAR5000-10 XAR4000-04 XAR2000-02

Ordering Code

XA	R	4000	—	04	—	□
Series	Function code	Body Size		Port Size		Color
XA Series	Regulator	1000 2000 3000 4000 5000		M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"		Blank:Standard W:White

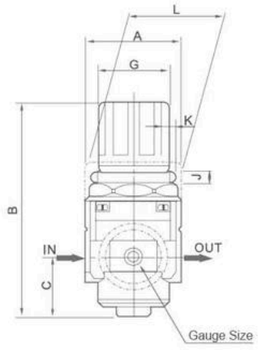
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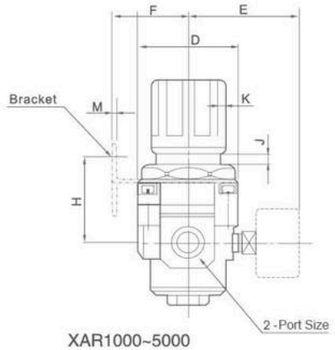


Specifcation

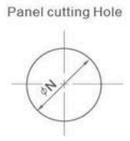
Model	XAR1000 -M5	XAR2000 -01	XAR2000 -02	XAR3000 -02	XAR3000 -03	XAR4000 -03	XAR4000 -04	XAR4000 -06	XAR5000 -06	XAR5000 -10
Rated Flow	100	550	550	2500	2500	6000	6000	6000	8000	8000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Highest Working Pressure	0.7MPa	1.0MPa								
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60℃									
Range of Adjustable Pressure	0.05~0.7MPa	0.05~0.85MPa								
Valve Type	With Overflow									

Overall Dimensions





XAR1000~5000



AR1000~3000:Max3.5
AR4000~5000:Max5

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N
XAR1000	M5	25	61.5	11	25	26	25	28	30	4.5	6.5	40	2	20.5
XAR2000	G1/8" ~G1/4"	40	95	17	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5
XAR3000	G1/4" ~G3/8"	53	127.5	35	53	60.8	41	40	46	6.5	8	53	2.3	42.5
XAR4000	G3/8" ~1/2"	70	149.5	37.5	70	65.5	50	54	54	8.5	10.5	70	2.3	52.5
XAR4000-06	G3/4"	75	154	40.5	70	69.5	50	54	56	8.5	10.5	70	2.3	52.5
XAR5000	G3/4" ~G1"	90	168	48	90	75.5	70	66	65.8	11	13	90	3.2	52.5

XAW 1000~5000 Series Filter & Regulator

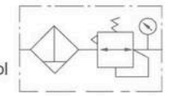


XAW5000-10 XAW4000-04 XAW2000-02

Ordering Code

XA	W	4000	—	04	□	□	—	□
Series	Function code	Body Size		Port Size	Drain Type	Metal Cup		Color
XA Series	Filter & Regulator	1000 2000 3000 4000 5000		M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Blank:Manual Drain Type D:Auto Drain Type (Available for 2000 or above)	U: With Iron Cup L: With Aluminum Cup (Available for 2000)		Blank:Standard W:White

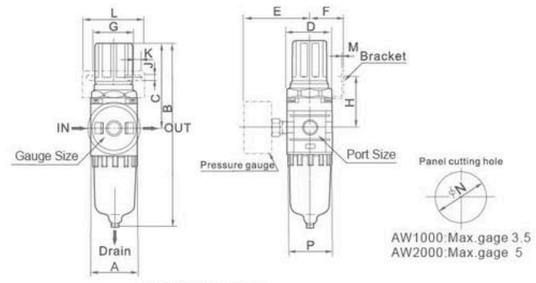
Graphic Symbol



Specifcation

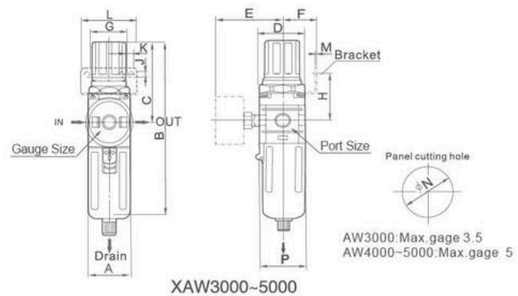
Model	XAW1000 -M5	XAW2000 -01	XAW2000 -02	XAW3000 -02	XAW3000 -03	XAW4000 -03	XAW4000 -04	XAW4000 -06	XAW5000 -06	XAW5000 -10
Rated Flow(L/min)	100	550	550	2000	2000	4000	4000	4500	5500	5500
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision	25μ									
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60℃									
Range of Adjustable Pressure	0.05~0.7MPa	0.05~0.85MPa								
Container Material	Polycarbonate									
Protective Cover	Not Available	Available								
Drain Function	Differential Drain	Differential Drain,Automatic Drain								
Valve Type	With Overflow									

Overall Dimensions



AW1000:Max.gage 3.5
AW2000:Max.gage 5

XAW1000~2000



AW3000:Max.gage 3.5
AW4000~5000:Max.gage 5

XAW3000~5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAW1000	M5	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2	20.5	28
XAW2000	G1/8" ~G1/4"	40	164.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	33.5	40
XAW3000	G1/4" ~G3/8"	53	211	92.5	53	60.8	41	40	46	6.5	8	53	2.3	42.5	56
XAW4000	G3/8" ~1/2"	70	262	112	70	70.5	50	54	53.5	8.5	10.5	70	2.3	52.2	73
XAW4000-06	G3/4"	75	267	114	70	70.5	50	54	55.5	8.5	10.5	70	2.3	52.5	73
XAW5000	G3/4" ~G1"	90	338	116	90	75.5	69.8	54	62	8.5	10.5	70	3.2	52.5	90

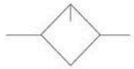
XAL 1000~5000 Series Lubricator



XAL5000−10 XAL4000−04 XAL2000−02

Ordering Code

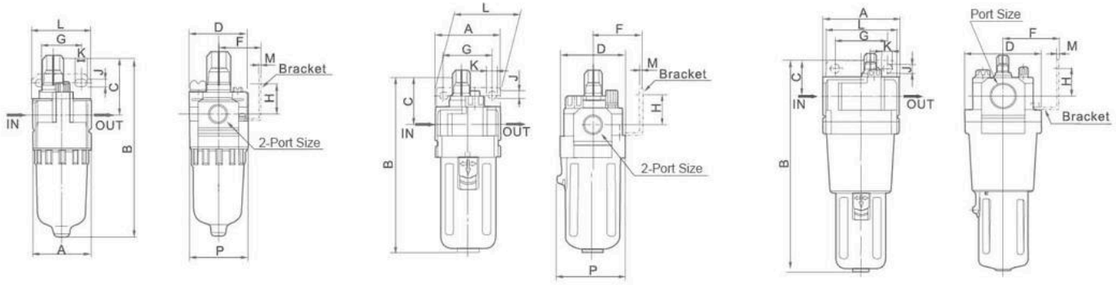
XA	L	4000	04	□	—	□
Series XA Series	**Function code** Lubricator	**Body Size** 1000 2000 3000 4000 5000	**Port Size** M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	**Metal Cup** U: With Iron Cup L: With Aluminum Cup (Available for 2000)		**Color** Blank:Standard W:White

Graphic Symbol 

Specifcation

Model	XAL1000 -M5	XAL2000 -01	XAL2000 -02	XAL3000 -02	XAR3000 -03	XAL4000 -03	XAL4000 -04	XAL4000 -06	XAL5000 -06	XAL5000 -10
Rated Flow	95	800	800	1700	1700	5000	5000	6300	7000	9000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60℃									
Recommended Oil Use	ISO VG 32									
Container Material	Polycarbonate									
Protective Cover	Not Available			Available						

Overall Dimensions



XAL1000~2000 XAL3000~4000 XAL5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
XAL1000	M5	25	81.5	25.5	25	-	-	-	-	-	-	-	27
XAL2000	G1/8" ~G1/4"	40	125.5	38	40	30	27	22	5.4	8.4	40	2.3	40
XAL3000	G1/4" ~G3/8"	53	150	38	53	41	40	23	6.5	8	53	2.3	56
XAL4000	G3/8" ~1/2"	70	185	41	70	50	54	26	8.5	10.5	70	2.3	73
XAL4000-06	G3/4"	75	185	39	70	50	54	25	8.5	10.5	70	2.3	73
XAL5000	G3/4" ~G1"	90	260	45	90	66.5	66	35	11	13	90	3.2	90

■ Note:We have upgraded Oil Drop Accessories on Lubricator of XA series 2000-5000 same to the XO series.

XAF 8000~9000 Series Air Filter



XAF9000−20

Ordering Code

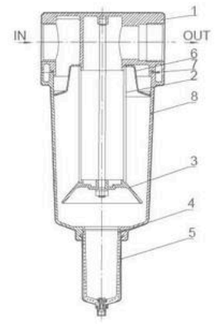
XA	F	8000	—	14	□
Series XA Series	**Function code** Filter	**Body Size** 8000 9000		**Port Size** 12: G1¼" 14: G1½" 20: G2"	**Drain Type** Blank:Manual Drain Type D:Auto Drain Type

Specifcation

Model	XAF8000-12	XAF8000-14	XAF9000-20
Rated Flow(L/min)	11500	11500	18500
Port Size	G1¼"	G1½"	G2"
Bowl Capacity(cm^3)	180		
Filter Precision	25μ		
Highest Working Pressure	1.0MPa		
Ensured pressure Resistance	1.5MPa		
Operating Temperature Range	5~60℃		
Container Material	Polycarbonate		
Protective Cover	Available		
Drain Function	Differential Drain		

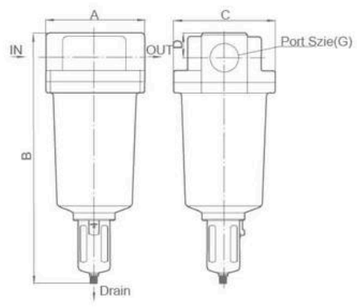
■ Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm^2)and step down is 0.5MPa(0.5kgf/cm^2)

Internal structure



No.	Name	Material
1	Valve Body	Aluminum Die Casting
2	Filter	Brass
3	Drain Board	ADC12
4	O-ring	Rubber
5	Water Storage Cup(Shield)	Polycarbonate(Cold Rolled Sheet)
6	Whirlwind Blade	LY11
7	O-ring	Rubber
8	Middle Part	Alumnum Die Casting

Overall Dimensions



Dimension Sheet

Model	Port Size(G)	A	B	C	D
XAF8000	1¼ 1½	150	390	140	33
XAF9000	2	190	470	190	46

XAR 8000~9000 Series Regulator



XAR9000-20

Ordering Code

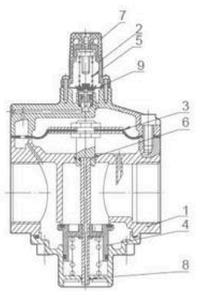
XA	R	8000	—	14
Series	**Function code**	**Body Size**		**Port Size**
XA Series	Regulator	8000 9000		14: G1½" 20: G2"

Specifcation

Model	XAR8000-14	XAR9000-20
Rated Flow(L/min)	18000	22000
Port Size	G1½"	G2"
Highest Working Pressure	1.0MPa	
Ensured pressure Resistance	1.5MPa	
Operating Temperature Range	5~60℃	
Range of Adjustable Pressure	0.05~0.85MPa	
Valve Type	With Overflow	
Pressure Gauge size	1/4	

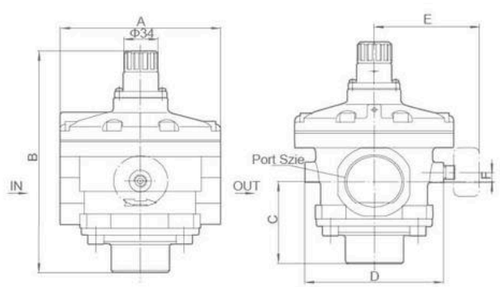
■ Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm^2)and step down is 0.5MPa(0.5kgf/cm^2)

Internal structure



No.	Name	Material
1	Valve Body	Aluminum Die Casting
2	Bonnet	Aluminum Die Casting
3	Film	Rubber
4	Valve Core	Brass,Rubber
5	Spring	Stainless steel
6	O-ring	Rubber
7	Hand Wheel	Enhance nylon
8	O-ring	Rubber
9	Film	Rubber

Overall Dimensions



Dimension Sheet

Model	Port Size(G)	A	B
XAR8000	1½	Φ126	216
XAR9000	2	Φ160	242

Model	C	D	E	F
XAR8000	75	110	90.5	5
XAR9000	90	140	105.5	10

XGC Serie Air Source Treatment Unit(F.R.L Combination)

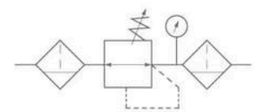


XGC3-03

Ordering Code

XGC2	—	01	□	L
Series Code		**Port Size**	**Drain Type**	**Pressure Range**
Filter+Regulator+ Lubricator		01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2"	Blank:Differential Drain D:Automatic Drain	Blank:Standard L:Low-Pressure Type

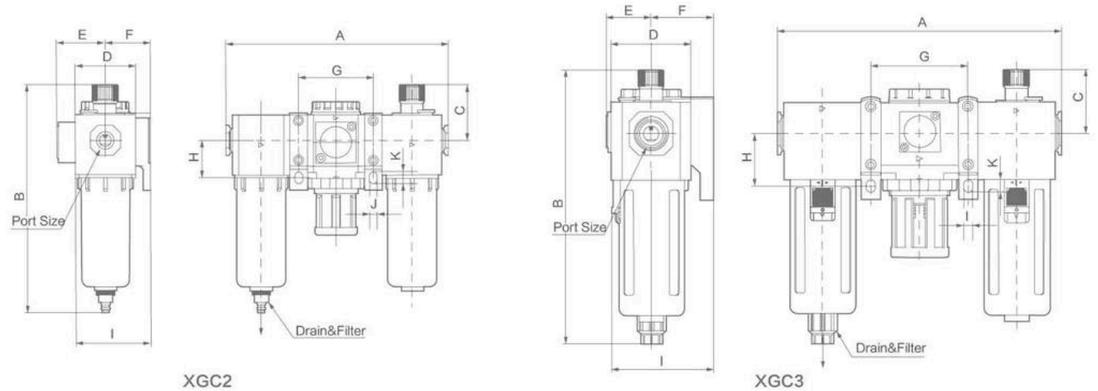
Graphic Symbol



Specifcation

Model		XGC2-01	XGC2-02	XGC3-02	XGC3-03	XGC3-04
Working Medium		Compressed Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision		40μm or 5μm				
Pressure Range		Manual And Differential Pressure Drainage Type: 0.15~0.19MPa Manual Drain: 0.05~0.9MPa				
Ensured pressure Resistance		1.5MPa				
Operating Temperature Range		5~60℃				
Water Cup Capacity		15CC			40CC	
Oil Cup Capacity		25CC			75CC	
Constitute	Filter	XGF2-01	XGF2-02	XGF3-02	XGF3-03	XGF3-04
	Regulator	XGR2-01	XGR2-02	XGR3-02	XGR3-03	XGR3-04
	Lubricator	XGL2-01	XGL2-02	XGL3-02	XGL3-03	XGL3-04

Overall Dimensions



Dimension Sheet

Model	Port Size	A	B	C	D	E	F	G	H	I	J	K
XGC2	G1/8~1/4"	146.5	152	37	40	31.5	30	50	25	50	5	8
XGC3	G1/4~1/2"	188.5	182.5	42.5	53	29	41.5	64	35	68	6	8.5

XGWL Serie Air Source Treatment Unit(FR.L Combination)



XGWL3-03

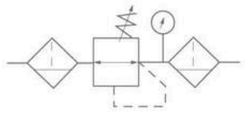


XGWL2-02

Ordering Code

XGWL2	—	01	□	L
Series Code		Port Size	Drain Type	Pressure Range
Filter&Regulator+ Lubricator		G1/8" G1/4" G1/4" G3/8" G1/2"	Blank:Differential Drain D:Automatic Drain	Blank:Standard L:Low-Pressure Type

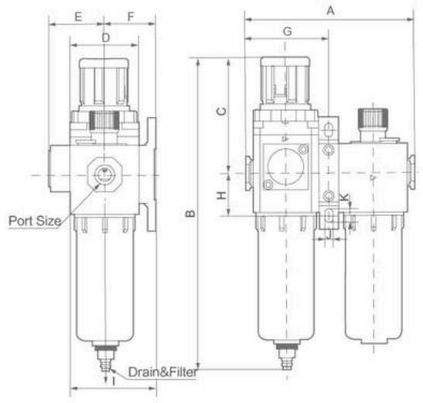
Graphic Symbol



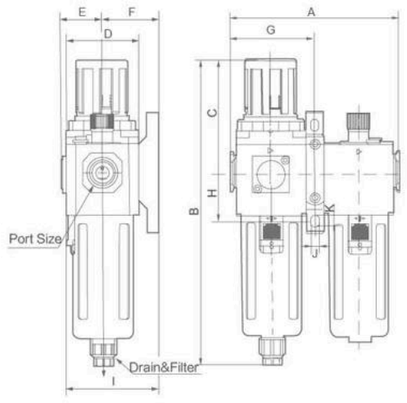
Specifcation

Model		XGWL2-01	XGWL2-02	XGWL2-02	XGWL3-03	XGWL3-04
Working Medium		Compressed Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision		40μm or 5μm				
Pressure Range		Manual And Differential Pressure Drainage Type: 0.15~0.19MPa Manual Drain: 0.05~0.9MPa				
Ensured pressure Resistance		1.5MPa				
Operating Temperature Range		5~60℃				
Water Cup Capacity		15CC		40CC		
Oil Cup Capacity		25CC		75CC		
Constitute	Filter&Regulator	XGFR2-01	XGFR2-02	XGFR3-02	XGFR3-03	XGFR3-04
	Lubricator	XGL2-01	XGL2-02	XGL3-02	XGL3-03	XGL3-04

Overall Dimensions



XGWL2



XGWL3

Dimension Sheet

Model	Port Size	A	B	C	D	E	F	G	H	I	J	K
XGWL2	G1/8~1/4"	97	183	68	40	31.5	30	48.5	25	50	5	8
XGWL3	G1/4~1/2"	124	224	82.5	53	29	41.5	62	35	68	6	8.5

XGF Series Air Filter



XGF3-03

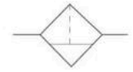


XGF2-02

Ordering Code

XGF2	—	01	D	W
Series Code		Port Size	Drain Type	Filter Precision
Filter		G1/8" G1/4" G1/4" G3/8" G1/2"	Blank:Differential Drain D:Automatic Drain	Blank：40μm W:5μm

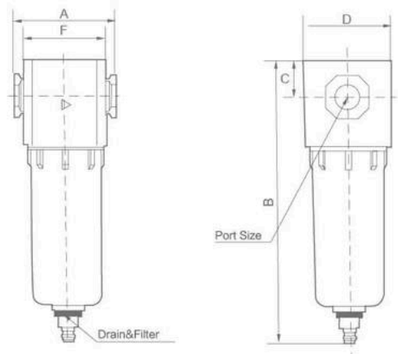
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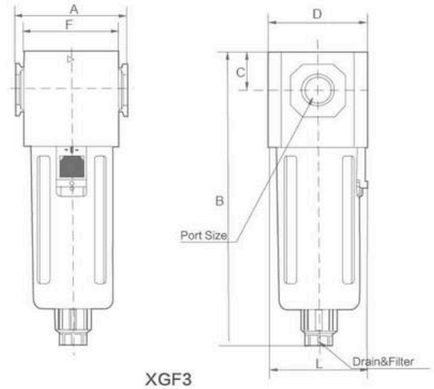
Specifcation

Model	XGF2-01	XGF2-02	XGF3-02	XGF3-03	XGF3-04
Working Medium	Compressed Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision	40μm or 5μm				
Pressure Range	Manual And Differential Pressure Drainage Type: 0.15~0.19MPa Manual Drain: 0.05~0.9MPa				
Ensured pressure Resistance	1.5MPa				
Operating Temperature Range	5~60℃				
Water Cup Capacity	20CC			40CC	

Overall Dimensions



XGF2



XGF3

Dimension Sheet

Model	Port Size	A	B	C	D	F	L
XGF2	G1/8~1/4"	47	132	17	40	38	--
XGF3	G1/4~1/2"	60	161	21	53	51	53

XGFR Series Filter&Regulator



XGFR3-03



XGFR2-02

Ordering Code

XGFR2	—	01	L	□

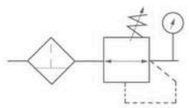
Series Code
Filter+Regulator

Port Size
G1/8"
G1/4"
G1/4"
G3/8"
G1/2"

Pressure Range
Blank:Standard
L:Low-Pressure Type

Bracket
Blank:Without bracket
J:With bracket

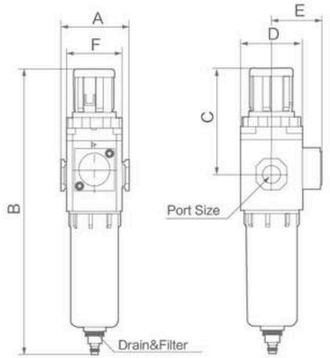
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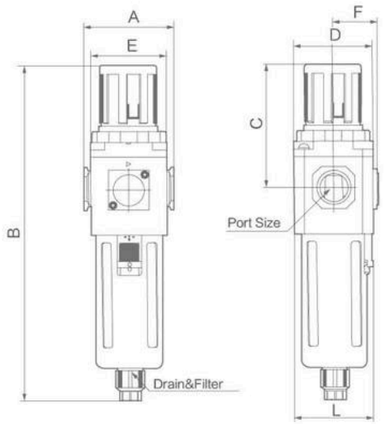
Specifcation

Model	XGFR2-01	XGFR2-02	XGFR3-02	XGFR3-03	XGFR3-04
Working Medium	Compressed Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision	40μm or 5μm				
Pressure Range	Manual And Differential Pressure Drainage Type: 0.15~0.19MPa Manual Drain: 0.05~0.9MPa				
Ensured pressure Resistance	1.5MPa				
Operating Temperature Range	5~60℃				
Water Cup Capacity	15CC		40CC		

Overall Dimensions



XGFR 2



XGFR 3

Dimension Sheet

Model	Port Size	A	B	C	D	F	L
XGFR2	G1/8~1/4"	47	183	68	40	32.5	--
XGFR3	G1/4~1/2"	60	224	82.5	53	51	53

XGL Series Lubricator



XGL3-03



XGL2-02

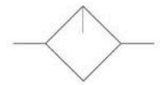
Ordering Code

XGL2	—	01

Series Code
Lubricator

Port Size
G1/8"
G1/4"
G1/4"
G3/8"
G1/2"

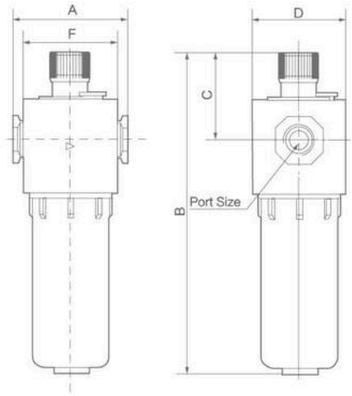
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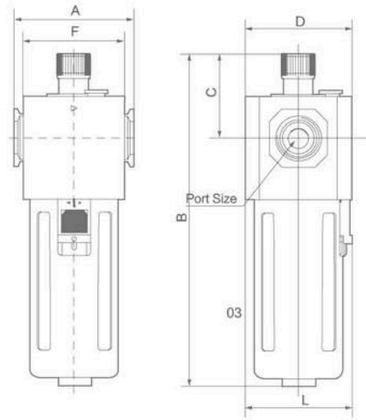
Specifcation

Model	XGL2-01	XGL2-02	XGL3-02	XGL3-03	XGL3-04
Working Medium	Compressed Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Pressure Range	0.05~0.9MPa				
Ensured pressure Resistance	1.5MPa				
Recommended Oil Use	ISO VG32				
Oil Cup Capacity	25CC		75CC		

Overall Dimensions



XGL2



XGL3

Dimension Sheet

Model	Port Size	A	B	C	D	F	L
XGL2	G1/8~1/4"	47	137	37	40	38	--
XGL3	G1/4~1/2"	60	168	42.5	53	51	53

XGR Series Regulator


XGR3-03


XGR2-02

Ordering Code

XGR2 — 01 L □

Series Code
Regulator

Port Size
G1/8"
G1/4"
G1/4"
G3/8"
G1/2"

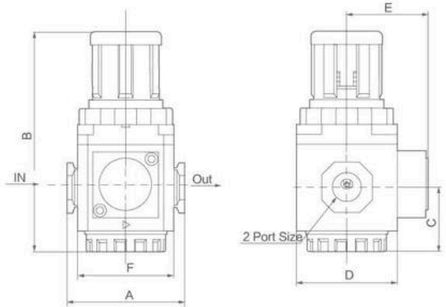
Pressure Range
Blank:Standard
L:Low-Pressure Type

Bracket
Blanke:Without bracket
J:With bracket

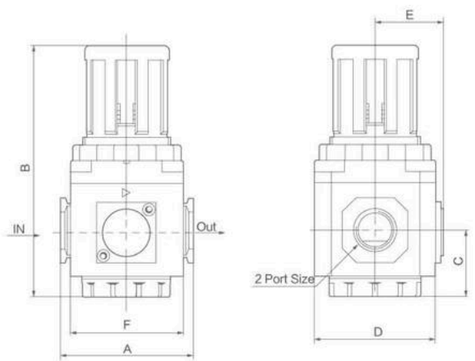
Specifcation

Model	XGR2-01	XGR2-02	XGR3-02	XGR3-03	XGR3-04
Working Medium			Compressed Air		
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Pressure Range			0.05~0.9MPa		
Ensured pressure Resistance			1.5MPa		
Operating Temperature Range			5~60℃		

Overall Dimensions



XGR2



XGR3

Dimension Sheet

Model	Port Size	A	B	C	D	F	I
XGR2	G1/8~1/4"	47	89	26	40	32.5	38
XGR3	G1/4~1/2"	60	112	29.5	53	30	51

XMAC 2000~5000 Series Air Source Treatment Unit(F.R.L Combination)


XMAC4000-04


XMAC2000-02

Ordering Code

XMA C 3000 — 04 □

Series
XMA Series

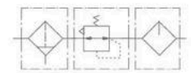
Function code
Filter+Regulator+ Lubricator

Specification Code
2000
3000
4000
5000

Port Size
01:G1/8"
02:G1/4"
03:G3/8"
04:G1/2"
06:G3/4"
10:G1"

Drain Type
Blank:Manual Drain Type
D:Auto Drain Type (Available for 3000 or above)

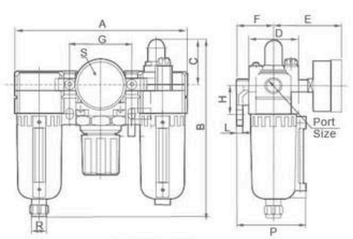
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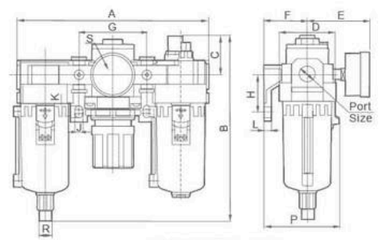
Specifcation

Model	XMAC2000 -01	XMAC2000 -02	XMAC3000 -02	XMAC3000 -03	XMAC4000 -03	XMAC4000 -04	XMAC4000 -06	XMAC5000 -06	XMAC5000 -10
Ensured Pressure Resistance	1.5MPa(15kgf/cm²)								
Highest Working Pressure	1.0MPa(10kgf/cm²)								
Operating Temperature Range	5~60℃								
Filter Precision	25μ & 5μ & 50μ								
Recommended Oil Use	Turbine NO.1 Oil ISOVG32								
Container Material	Aluminum Die Casting								
Pressure Regulating Range	0.05~0.85MPa(0.05~0.85kgf/cm²)								
Valve Type	With Overflow								
Assembly Filter	XMAF2000		XMAF3000		XMAF4000		XMAF4000-06	XMAF5000	
Assembly Regulator	XMAR2000		XMAR3000		XMAR4000		XMAR4000-06	XMAR5000	
Assembly Lubricator	XMAL2000		XMAL3000		XMAL4000		XMAL4000-06	XMAL5000	
Rated Flow(L/min)	500		2000		4000		4500	5000	
Port Size(G)	1/8'	1/4'	1/4'	3/8'	3/8'	1/2'	3/4'	3/4'	1'

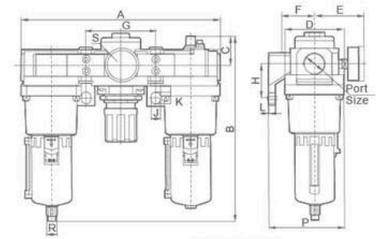
Overall Dimensions



XMAC2000



XMAC3000~4000



XMAC5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	R	S
XMAC2000	G1/8"-G1/4"	140	147	38	40	56.8	30	50	24	5.5	8.5	5	56	Φ6	G1/8
XMAC3000	G1/4"-G3/8"	181	178	38	53	60.8	41	64	35	7	11	7	70.5	Φ8	G1/8
XMAC4000	G1/2"	238	207	41	70	65.5	50	84	40	9	13	7	87.5	Φ8	G1/4
XMAC4000-06	G3/4"	253	208.5	40.5	70	69.5	50	89	40	9	13	7	87.5	Φ8	G1/4
XMAC5000	G3/4"-G1"	300	287	48	90	75.5	69.8	105	50	12	16	10.5	115	Φ8	G1/4

XMAC 2010~5010 Series Air Source Treatment Unit(FR.L Combination)



XMAC4010-04

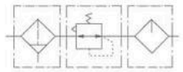


XMAC2010-02

Ordering Code

XMA	C	3010	—	04	□
Series	Function code	Specification Code		Port Size	Drain Type
XMA Series	FR.L Combination	2010 3010 4010 5010		01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Blank:Manual Drain Type D:Auto Drain Type (Available for 3000 or above)

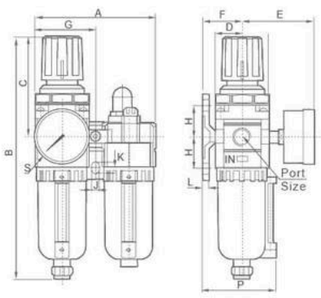
Graphic Symbol



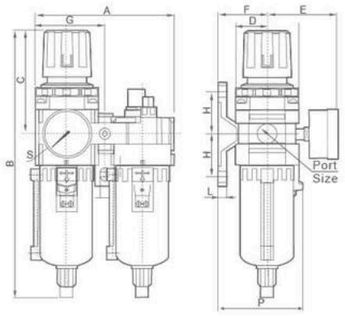
Specifcation

Model		XMAC2010 -01	XMAC2010 -02	XMAC3010 -02	XMAC3010 -03	XMAC4010 -03	XMAC4010 -04	XMAC4010 -06	XMAC5010 -06	XMAC5010 -06
Ensured Pressure Resistance		1.5MPa(15kgf/cm²)								
Highest Working Pressure		1.0MPa(10kgf/cm²)								
Operating Temperature Range		5~60℃								
Filter Precision		25μ & 5μ & 50μ								
Recommended Oil Use		Turbine NO.1 Oil ISOVG32								
Container Material		Aluminum Die Casting								
Pressure Regulating Range		0.05~0.85MPa(0.05~0.85kgf/cm²)								
Valve Type		With Overflow								
Assembly	Filter with pressure reducer	XMAW2000		XMAW3000		XMAW4000		XMAW4000-06	XMAW5000	
	Lubricator	XMAR2000		XMAR3000		XMAR4000		XMAR4000-06	XMAR5000	
Rated Flow(L/min)		500		1700		3000		3000	4000	
Port Size(G)		1/8'	1/4'	1/4'	3/8'	3/8'	1/2'	3/4'	3/4'	1'

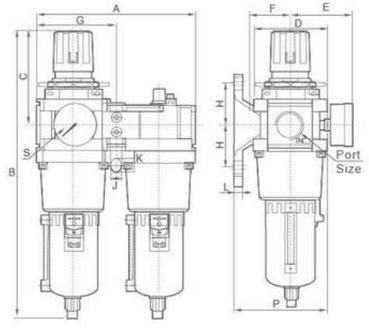
Overall Dimensions



XMAC2010



XMAC3010~4010



XMAC5010

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	S
XMAC2010	G1/8"-G1/4"	90	186.5	78	40	56.8	30	45	24	5.5	8.5	5	56	G1/8
XMAC3010	G1/4"-G3/8"	117	232.5	92.5	53	60.8	41	58.5	35	7	11	7	69.5	G1/8
XMAC4010	G1/2"	154	277	112	70	65.5	50	77	40	9	13	7	87.5	G1/4
XMAC4010-06	G3/4"	164	282.5	114	70	69.5	50	82	40	9	13	7	87.5	G1/4
XMAC5010	G3/4"-G1"	195	353.5	116	90	75.5	69.8	97.5	50	12	16	10.5	115	G1/4

XMAW 2000~5000 Series Filter & Regulator



XMAW4000-04

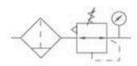


XMAW2000-02

Ordering Code

XMA	W	3000	—	04	□
Series	Function code	Specification Code		Port Size	Drain Type
XMA Series	Filter&Regulator	2000 3000 4000 5000		01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Blank:Manual Drain Type D:Auto Drain Type (Available for 3000 or above)

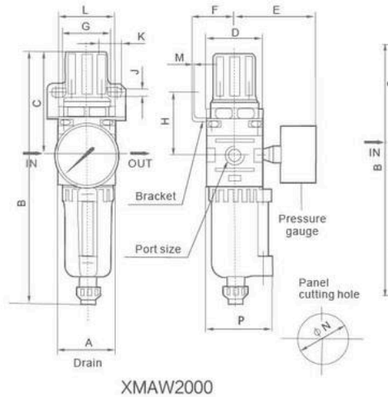
Graphic Symbol



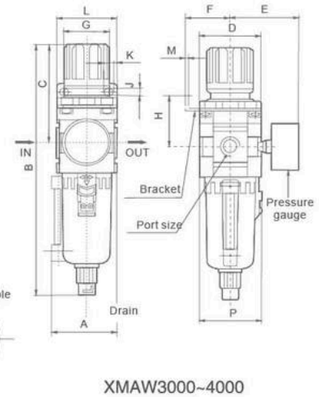
Specifcation

Model	XMAW2000 -01	XMAW2000 -02	XMAW3000 -02	XMAW3000 -03	XMAW4000 -03	XMAW4000 -04	XMAW4000 -06	XMAW5000 -06	XMAW5000 -10
Ensured Pressure Resistance	1.5MPa(15kgf/cm²)								
Highest Working Pressure	1.0MPa(10kgf/cm²)								
Operating Temperature Range	5~60℃								
Filter Precision	25μ & 5μ & 50μ								
Container Material	Aluminum Die Casting								
Pressure Regulating Range	0.05~0.85MPa(0.5~0.85kgf/cm²)								
Valve Type	With Overflow								
Rated Flow(L/min)	550		2000		4000		4500	5500	
Port Size(G)	1/8'	1/4'	1/4'	3/8'	3/8'	1/2'	3/4'	3/4'	1'
Pressure Gauge Size	1/8		1/8		1/4		1/4	1/4	

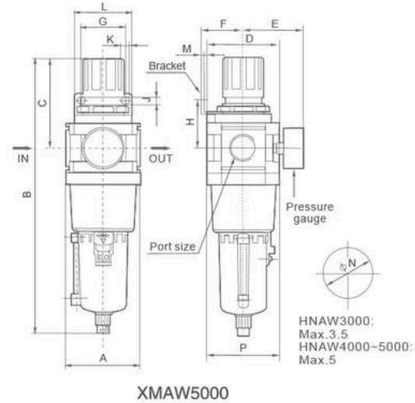
Overall Dimensions



XMAW2000



XMAW3000~4000



XMAW5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
XMAW2000	G1/8"-G1/4"	40	186.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	46
XMAW3000	G1/4"-G3/8"	57.5	232.5	92.5	53	60.8	39	40	46	6.5	8	53	2.3	55
XMAW4000	G1/2"	74	278	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	72.5
XMAW4000-06	G3/4"	76.5	282	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	72.5
XMAW5000	G3/4"-G1"	90	355	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	90

XMAF 2000~5000 Series Air Filter



XMAF4000-04

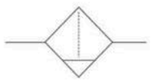


XMAF2000-02

Ordering Code

XMA	F	3000	—	04	□
Series	Function code	Specification Code		Port Size	Drain Type
XMA Series	Filter	2000 3000 4000 5000		01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Blank:Manual Drain Type D:Auto Drain Type (Available for 3000 or above)

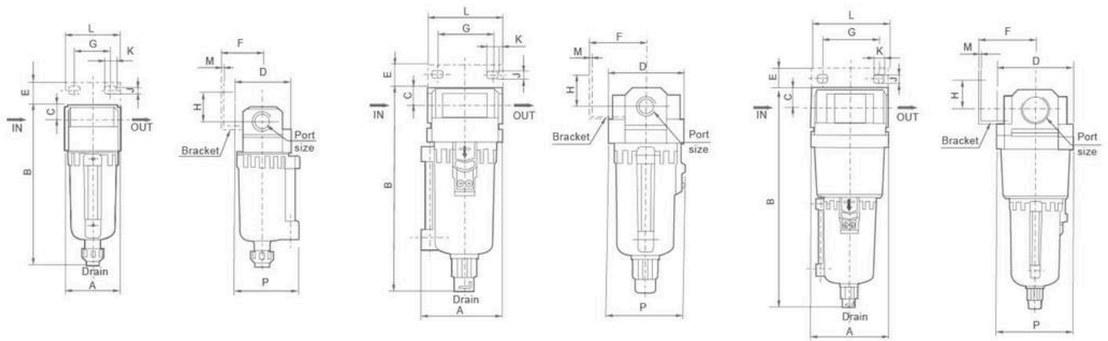
Graphic Symbol



Specifcation

Model	XMAF2000 -01	XMAF2000 -02	XMAF3000 -02	XMAF3000 -03	XMAF4000 -03	XMAF4000 -04	XMAF4000 -06	XMAF5000 -06	XMAF5000 -10
Ensured Pressure Resistance	1.5MPa(15kgf/cm²)								
Highest Working Pressure	1.0MPa(10kgf/cm²)								
Operating Temperature Range	5~60℃								
Filter Precision	25μ & 5μ & 50μ								
Container Material	Aluminum Die Casting								
Rated Flow(L/min)	750		1500		4000		6000	7000	
Port Size(G)	1/8'	1/4'	1/4'	3/8'	3/8'	1/2'	3/4'	3/4'	1'
Bowl Capacity	15		20		45		45	130	

Overall Dimensions



XMAF2000 XMAF3000~4000 XMAF5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
XMAF2000	G1/8"-G1/4"	40	119.5	11	40	17	27	22	5.4	8.4	40	2.3	46
XMAF3000	G1/4"-G3/8"	57.4	154	14	53	16	40	23	6.5	8	53	2.3	55
XMAF4000	G1/2"	74	184	18	70	17	54	26	8.5	10.5	70	2.3	72.5
XMAF4000-06	G3/4"	76.5	188	20	70	14	54	25	8.5	10.5	70	2.3	72.5
XMAF5000	G3/4"-G1"	90	263	24	90	23	66	35	11	13	90	3.2	90

XMAL 2000~5000 Series Lubricator



XMAL4000-04

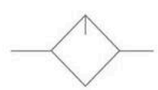


XMAL2000-02

Ordering Code

XMA	L	3000	—	04
Series	Function code	Specification Code		Port Size
XMA Series	Lubricator	2000 3000 4000 5000		01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"

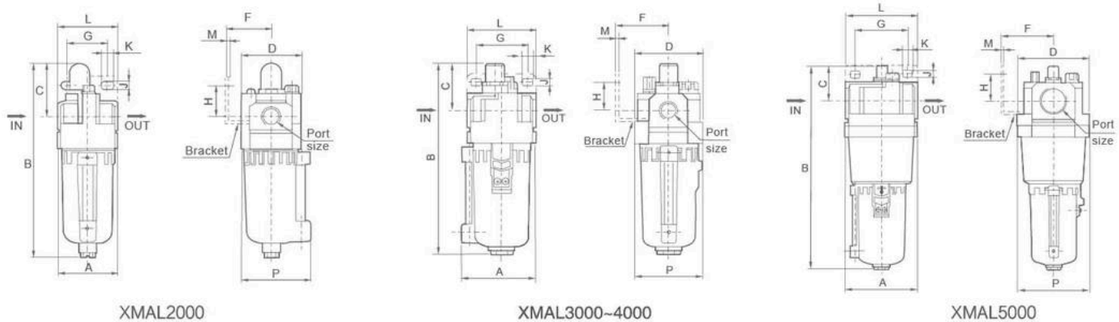
Graphic Symbol



Specifcation

Model	XMAL2000 -01	XMAL2000 -02	XMAL3000 -02	XMAL3000 -03	XMAL4000 -03	XMAL4000 -04	XMAL4000 -06	XMAL5000 -06	XMAL5000 -10
Ensured Pressure Resistance	1.5MPa(15kgf/cm²)								
Highest Working Pressure	1.0MPa(10kgf/cm²)								
Operating Temperature Range	5~60℃								
Recommended Oil Use	Turbine NO.1 Oil ISOVG32								
Container Material	Aluminum Die Casting								
Minimal Flow of Oil Drop(L/min)	15		30	40	40	50	50	190	
Rated Flow(L/min)	800		1700		5000		6300	7000	
Port Size(G)	1/8'	1/4'	1/4'	3/8'	3/8'	1/2'	3/4'	3/4'	1'
Bowl Capacity	25		50		130		130	130	

Overall Dimensions



XMAL2000 XMAL3000~4000 XMAL5000

Dimension Sheet

Model	Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
XMAL2000	G1/8"-G1/4"	40	137	39	50	30	27	22	5.4	8.4	40	2.3	40
XMAL3000	G1/4"-G3/8"	57.5	154.5	39	53	41	40	23	6.5	8	53	2.3	55
XMAL4000	G1/2"	74	185.5	41	70	50	54	26	8.5	10.5	70	2.3	72.5
XMAL4000-06	G3/4"	76.5	185.5	39	70	50	54	25	8.5	10.5	70	2.3	72.5
XMAL5000	G3/4"-G1"	90	262..5	45	90	66.5	66	35	11	13	90	3.2	90

AC,BC Series Air Source Treatment Unit(F.R.L Combination)



BC4000

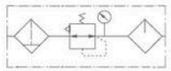


AC2000

Ordering Code

BC	3000	—	□	—	□
Series	**Port Size**		**Drain Type**		**Color**
AC:Small Size BC:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"		Blank:Manual Drain Type D:Auto Drain Type		Blank:Standard W:White

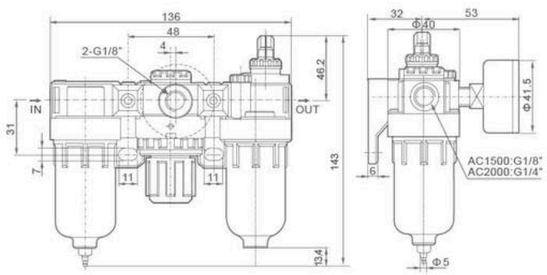
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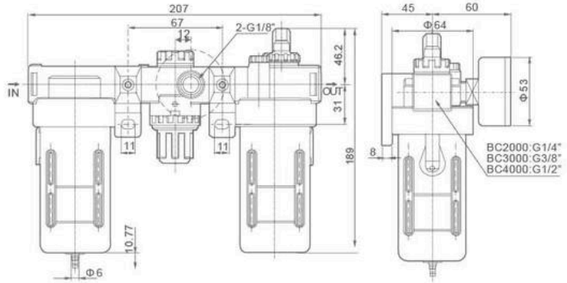
Specifcation

Model		AC1500	AC2000	BC2000	BC3000	BC4000
Operating Fluid				Air		
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filtering Element Reughness				40μ		
Range of Adjustable Pressure				0.05~0.85MPa		
Max Adjustable Pressure				0.95MPa		
Ensu red Pressure Resistance				1.5MPa		
Operating Temperature Range				5~60℃		
Capacity of Filter Cup		15 cc		60 cc		
Capacity of Oil Feed Cup		25 cc		90 cc		
Suggested Lube		ISO VG 32 or Same Grade Oil				
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	-		Iron		
Composing Elements	Fitier	AF1500	AF2000	BF2000	BF3000	BF4000
	Regulator	AR1500	AR2000	BR2000	BR3000	BR4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

Overall Dimensions



AC Series



BC Series

AFC,BFC Series Air Source Treatment Unit(FR.L Combination)



BFC4000

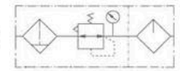


AFC2000

Ordering Code

BFC	3000	—	□	—	□
Series	**Port Size**		**Drain Type**		**Color**
AFC:Small Size BFC:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"		Blank:Manual Drain Type D:Auto Drain Type		Blank:Standard W:White

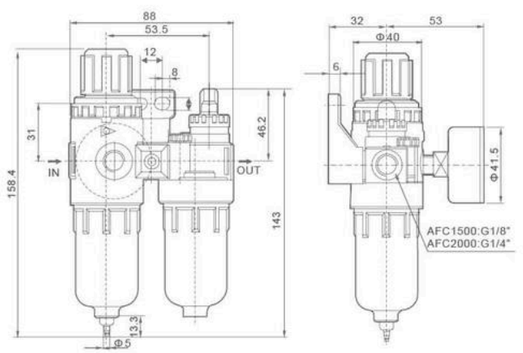
Graphic Symbol



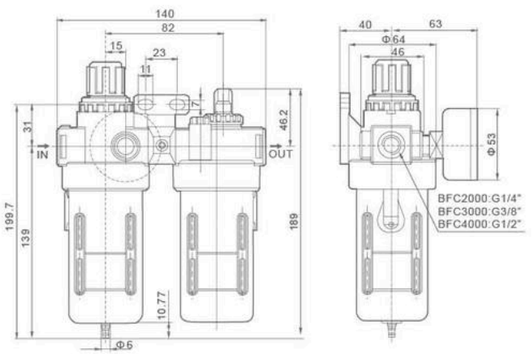
Specifcation

Model		AFC1500	AFC2000	BFC2000	BFC3000	BFC4000
Operating Fluid				Air		
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filtering Element Reughness				40μ		
Range of Adjustable Pressure				0.05~0.85MPa		
Max Adjustable Pressure				0.95MPa		
Ensu red Pressure Resistance				1.5MPa		
Operating Temperature Range				5~60℃		
Capacity of Filter Cup		15 cc		60 cc		
Capacity of Oil Feed Cup		25 cc		90 cc		
Suggested Lube		ISO VG 32 or Same Grade Oil				
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	-		Iron		
Composing Elements	Fitier & Regulator	AFR1500	AFR2000	BFR2000	BFR3000	BFF4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

Overall Dimensions



AFC Series



BFC Series

AFR,BFR Series Filter&Regulator



BFR4000

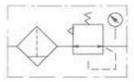


AFR2000

Ordering Code

BFR	3000	— □	— □
Series	**Port Size**	**Drain Type**	**Color**
AC:Small Size BC:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"	Blank:Manual Drain Type D:Auto Drain Type	Blank:Standard W:White

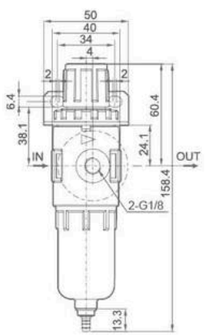
Graphic Symbol

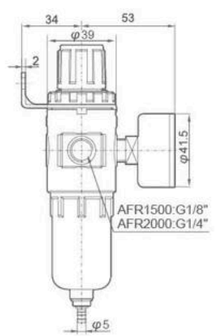


Specifcation

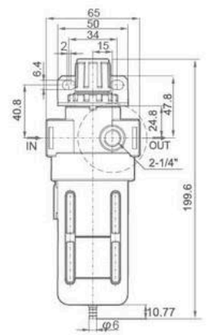
Model		AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure		0.05~0.85MPa				
Max Adjustable Pressure		0.95MPa				
Ensured Pressure Resistance		1.5MPa				
Operating Temperature Range		5~60℃				
Capacity of Filter Cup		15 cc		60 cc		
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	-		Iron		

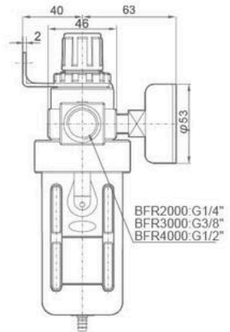
Overall Dimensions





AFR Series





BFR Series

AF,BF Series Air Filter



BF4000

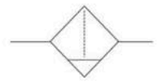


AF2000

Ordering Code

BF	3000	— □	— □
Series	**Port Size**	**Drain Type**	**Color**
AF:Small Size BF:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"	Blank:Manual Drain Type D:Auto Drain Type	Blank:Standard W:White

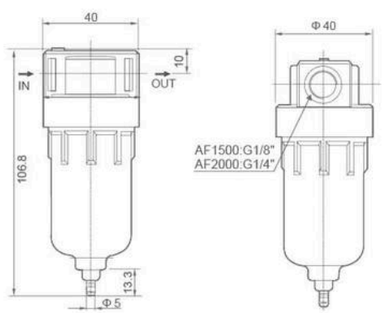
Graphic Symbol



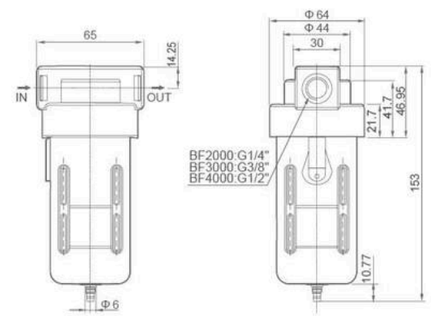
Specifcation

Model		AF1500	AF2000	BF2000	BF3000	BF4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filtering Element Reughness		40μ				
Ensured Pressure Resistance		1.5MPa				
Operating Temperature Range		5~60℃				
Capacity of Filter Cup		15cc		60 cc		
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	-		Iron		

Overall Dimensions



AF Series



BF Series

AR,BR Series Regulator



BR4000

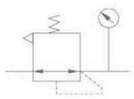


AR2000

Ordering Code

BR	2000	—	□
Series	Port Size		Color
AR:Small Size BR:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2		Blank:Standard W:White

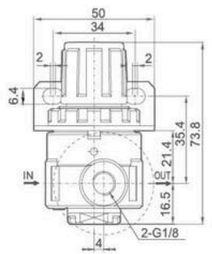
Graphic Symbol

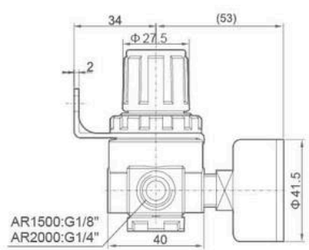


Specifcation

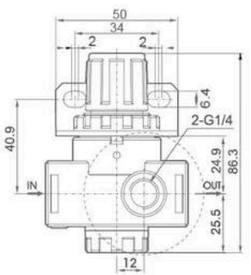
Model	AR1500	AR2000	BR2000	BR3000	BR4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure	0.05~0.85MPa				
Max Adjustable Pressure	0.95MPa				
Ensured Pressure Resistance	1.5MPa				
Operating Temperature Range	5~60℃				
Material of Body	Aluminum Die-casting Forming				

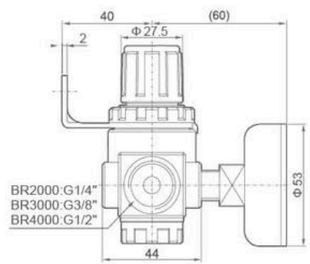
Overall Dimensions





AR Series





BR Series

AL,BL Series Lubricator



BL4000

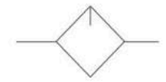


AL2000

Ordering Code

BL	2000	—	□
Series	Port Size		Color
AL:Small Size BL:Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"		Blank:Standard W:White

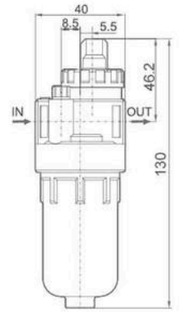
Graphic Symbol

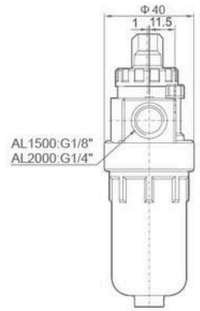


Specifcation

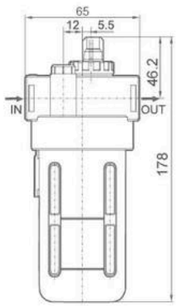
Model		AL1500	AL2000	BL2000	BL3000	BL4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Ensured Pressure Resistance		1.5MPa				
Operating Temperature Range		5~60℃				
Suggested Lube		ISO VG 32 or Same Grade Oil				
Capacity of Oil Feed Cup		25cc		90 cc		
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	-		Iron		

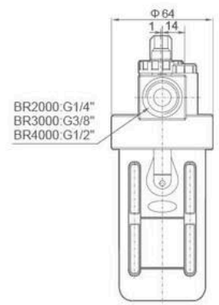
Overall Dimensions





AL Series





BL Series

H Series High Pressure Filter & Regulator



QFRH-25

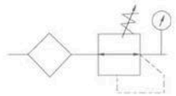
Ordering Code

QFRH — 15

High pressure Filter & Regulator

Connection
8:G1/4" 10:G3/8"
15:G1/2" 20:G3/4"
25:G1"

Graphic Symbol



Specifcation

Model	QFRH-8,10,15,20,25
Operating Fluid	Air
Filtering Eliment Roughness	20μm or 40μm
Range of Adjustable Pressure	0.15~3.5MPa
Max. Input pressure	4MPa
Operating Temperature Range	5~80℃

H Series High Pressure Regulator



QTYH-25

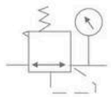
Ordering Code

QTYH — 15

High pressure Regulator

Connection
8:G1/4" 10:G3/8"
15:G1/2" 20:G3/4"
25:G1"

Graphic Symbol



Specifcation

Model	QTYH-8,10,15,20,25
Operating Fluid	Air
Range of Adjustable Pressure	0.05~3.5MPa
Max. Input pressure	4MPa
Operating Temperature Range	-25~80℃

H Series High Pressure Filter



QSLH-15

Ordering Code

QSLH — 15

High Pressure Filter

Pors Size
8:G1/4"
10:G3/8"
15:G1/2"
20:G3/4"
25:G1"

Graphic Symbol



Specifcation

Model	QSLH-8,10,15,20,25
Operating Fluid	Air
Filtering Eliment Roughness	20μm or 40μm
Working of Adjustable Pressure	0.15~3.5MPa
Max. Input pressure	4MPa
Operating Temperature Range	-25~80℃

PIR Series Precision Regulator



PIR2010-02

Port Size G1/8",G1/4",G3/8"
Standard Type, Auto Drain Type and Metal Cup as Optional.

Designed to be compact and light weight with high output flow and precise setting pressure, Can be mounted easily with bracket or assemble with XA series F.R.L.

Graphic Symbol



Ordering Code

PIR 20 00 — 02

Series
PIR series

Body Size
10
20
30

Pressure Range
00(0.005~0.2Mpa)
10(0.05~0.4Mpa)
20(0.01~0.8Mpa)

Port Size
01:G1/8"
02:G1/4"
03:G3/8"
04:G1/2"

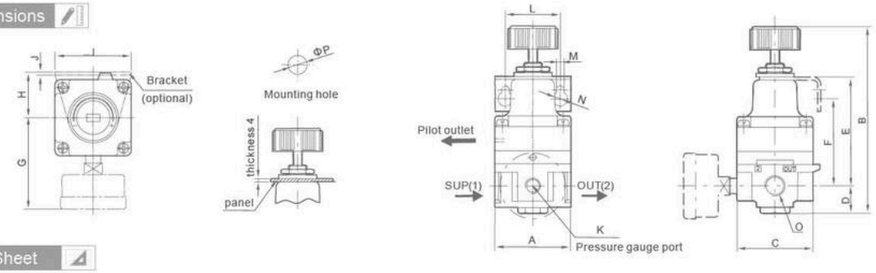
Order Example

1):PIR Series, Valve Body: 20;Port Size:G1/4, Pressure Range:10,Model:PIR-2010-02
1):PIR Series,Valve Body:30,Port Size:G1/2, Pressure Range:20,Model:PIR-3010-04

Specifcation

Model	PIR1000-01	PIR1010-01	PIR1020-01	PIR2000-02	PIR2010-02	PIR2020-02	PIR3000-03/04	PIR3010-03/04	PIR3020~03/04
Pressure Range	0.005~0.2	0.01~0.4	0.01~0.8	0.005~0.2	0.01~0.2	0.01~0.8	0.01~0.2	0.01~0.4	0.01~0.8
Port Size	G1/8"			G1/4"			G3/8"、G1/2"		
Air consumption	Max 3.5L/min			Max 3.1L/min			Max 9.5L/min Outlet: Max 2L/min		
Minimum pressure	Setting pressure+0.05			Setting pressure+0.05			Setting pressure+0.05		
Maximum pressure	1.0MPa								
Sensitivity	Within 0.2% of full span								
Repeatability	Within ±0.5% of full span								
Ambient and Fluid Temperature	-5~+60℃ (with no freezing)								
Pressure Gauge Port	G1/8"								

Overall Dimensions



Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PIR1000-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	Φ8.5	G1/8	Φ10.5
PIR1010-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	Φ8.5	G1/8	Φ10.5
PIR1020-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	Φ8.5	G1/8	Φ10.5
PIR2000-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	Φ9.5	G1/8	Φ12.5
PIR2010-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	Φ9.5	G1/8	Φ12.5
PIR2020-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	Φ9.5	G1/8	Φ12.5
PIR3000-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	Φ15.5	G3/8	Φ12.5
PIR3010-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	Φ15.5	G3/8	Φ12.5
PIR3020-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	Φ15.5	G3/8	Φ12.5

XITV Series Electro Pneumatic Regulator



XITV2050-31F2CL

Product Features

Electrical proportional valves have the features of high control accuracy, rapid response, sensitive response, and simple structure etc.
It can be achieved the accurate control of fluid flow rate, temperature, pressure and other parameters, improving production efficiency and quality.
At the same time, electrical proportional valves can also be connected to control systems such as computers or PLCs through digital interfaces, achieving intelligent control and remote operation, providing strong support for the automation process of modern industry.
Application areas include industrial automation control, fluid transportation, airport pavement oil emulsion removal, vehicle braking, concrete pump transportation, etc

1) Electrical proportional way,realize infinite control of outlet pressure.
2)Can realize remote control and program control.
3) Compared with intermittent control, the system is simplified and the components are decreased more
4) Compared with hydraulic proportional valves, it has small dimensions, light weight, compact structure, lightweight, and lower cost
5)Low power consumption: below 4W(communication way)
6) No occuring fire, no pollution to the environment, and less affected by temperature changes

Ordering Code

XITV — 3 0 — 1 0 0 — 1 □ 2 □ S □

Series
Electrical Proportional Valve

Model
1:1000Type
2:2000Type
3:3000Type

Pressure Range
1:0.1MPa
3:0.5MPa
5:0.9MPa

Nominal Voltage
0: DC24V
1:DC12-15V

Input Signal/Communication Model

0	Current type 4 to 20 mADC(Sink type)
1	Current type 0 to 20 mADC(Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
40	4 points preset input
52	16 points preset input(Switch output/NPN output)
53	16 points preset input(Switch output/PNP output)
60	10-bit digital input
CC	CC-Link
DE	DeviceNet
PR	PROFIBUS DP
RC	RS-232C comminication
IL	IO-Link

Thread Type
Blank:Rc
N:NPT
T:NPTF
F:G

Port Size
1:1/8 (1000Type)
2:1/4 (1000、2000、3000Type)
3:3/8 (2000、3000Type)
4:1/2 (3000Type)

Monitor Output

1	Analog output 1 to 5 VDC
2	Switch out/NPN output
3	Switch out/PNP output
4	Analog Output 4 to 20 mADC(Sink Type)
Blank	None

Bracket[1)]
Blank:Without Bracket
B:Flat Bracket
C:L-bracket

Cable Connector Type
S:Straight Type 3 m
L:Right Angle Type 3 m
N:Without Cable Connector

Pressure Display Unit
Blank:MPa
2[2)]:kgt/cm²
3:bar
4[2)]:psi
5:kPa

1) The Bracket is Included.
2) This Product is for Overseas use only according to the new measurement Act.(The SI unit type is provided for use in Japan.) For the Communication Models CC.DE.PR.and RC,Only "Blank" is available as it does not have a pressure display.

XITV Series Electro Pneumatic Regulator

Specifcation

Model		ITV101□ / ITV201□ / ITV301□	ITV103□ / ITV203□ / ITV303□	ITV105□ / ITV205□ / ITV305□
Min.Supply Pressure		Set pressure+0.1MPa		
Max.Supply Pressure		0.2MPa	1.0MPa	
Set Pressure Range		0.005 to 0.1 MPa	0.005 to 0.5 MPa	0.005 to 0.9 MPa
Power Supply	Voltage	24 VDC ±10%，12 to 15 VDC		
	Current Consumption	Power Supply Voltage 24 VDC type:0.12 A or less Power Supply Voltage 12 TO 15VDC Type:0.18 A or less		
Input Signal	Current Type	4 to 20 mADC,0 TO 20 mADC(Sink Type)		
	Voltage Type	0 to 5 VDC,0 TO 10 VDC		
	Preset Input	4 Points(Negative Common),16 points(No Common Polarity)		
	Digital Input	10 bits(Parallel)		
Input Impedance	Current Type	250 Ω or less		
	Voltage Type	Approx.6.5kΩ		
	Preset Input	Power Supply Voltage 24 VDC Type:Approx.4.7kΩ Power Supply Voltage 12 VDC Type:Approx.2.0kΩ		
	Digital Input	Approx.4.7kΩ		
Output Signal(Monitor Output)	Analog Output	1 to 5 VDC (Out put impedance: Approx. 1 kΩ) 4 to 20 mADC (Sink type) (Output impedance: 250 Ω or less) outout accuracy ±6% F.S. or less		
	Switch Output	NPN open collector output: Max. 30 V, 80 mA PNP open collector output Max. 80 mA		
Linearity		±1%6 F.S. or less		
Hysteresis		0.5% F.S. or less		
Repeatability		±0.5% F.S. or less		
Sensitivity		0.2% F.S. or less		
Temperature characteristics		±0.12% F.S./℃ or less		
Output pressure display	Accuracy	±2% F.S.+1 digit or less		
	Min. unit	MPa: 0.001,kgf/cm²:0.01,bar: 0.01. psi: 0.1,kPa: 1		
Ambient and fluid temperatures		0 to 50°C (No condensation)		
Enclosure		IP65		

HMR35 Series Micro Precision Regulator



HMR35

- 1.The valve body is made of engineering plastic,the product is light weight and compact,making it idea for use on portable systems,such as ventilators,dental equipment,etc.
- 2.Special overflow structure consisting of spring,seal and valve core,sensitive movement,hight regulating accuracy and good flow characteristics.Flange installation,simple and convenient.

Specifcation

Model	HMR35
Rated Flow	260L/min
Highest Working Pressure	1.0Mpa
Working Medium	Compressed air
Ambient and Fuid Temperature	0~60℃
Pressure Regulating Range	0.05~0.35Mpa
Installation	Bottom flange installation
Installation position	Any where

XS Series Air Source Treatment Unit



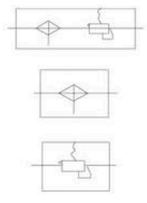
XSFC-200

Ordering Code

XS — FC — 200

Series	Function code	Port Size
XS series	FC:Filter&Regulater+Lubricator FR:Regulater&Filter L:Lubricator	200:G1/4" 300:G3/8" 400:G1/2"

Graphic Symbol



The product have the function of filter,regulator and lubricator.It's stucture tightly,flow rate largely,output steadily and installation simply.The element has pressure gauge,installation bracket and lubricator. The lubricator can non-stop gas.All have the cup shape protect cover.Use safe and appearance elegant.

Specifcation

Model	XSFC/FR/L-200	XSFC/FR/L-300	XSFC/FR/L-400
Port Size	G1/4"	G3/8"	G1/2"
Pressuer Gauge Bore	G1/8"	G1/8"	G1/8"
Ensured Pressure Resistance	1.5MPa		
Highest Working Pressure	1.0MPa		
Environment and Fluid Temperature	5~60℃		
Protective Cover	Available		

XN Series Air Source Treatment Unit



XNFC07-200 | XNFR07-200 | XNF07-200 | XNL07-200 | XNR07-200

Specifcation

Model	XNFC07-200	XNFR07-200	XNF07-200	XNL07-200	XNR07-200
Operating Fluid	Compressed Air				
Range of Adlustable Pressure	0-0.8Mpa				
Operating Temperature Range	-20~50℃				
Joint pipe bore	G1/4"				

XU Series Air Source Treatment Unit



XUC-04 | XUWL-04 | XUW-04

Ordering Code

XU — C — 02 — □

Series	Function code	Port Size	Drain Type
XU Series	C:Filter+Regulator+Lubricator WL:Filter&Regulator+Lubricator W:Filter&Regulator R:Regulator F:Filter L:Lubricator	02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 08:G1"	Blank:Manual Drain Type D:Auto Drain Type

Specifcation

Model	XUC/WL/W-02 XUF/R/L-02	XUC/WL/W-03 XUF/R/L-03	XUC/WL/W-04 XUF/R/L-04	XUC/WL/W-06 XUF/R/L-06	XUC/WL/W-08 XUF/R/L-08
Port Size	G1/4"	G3/8"	G1/2"	G3/4"	G1"
Gauge	1/4'				
Operating Fluid	Air				
Pressure Range	0.05~0.85MPa				
Max.Flow rate(NI/min)	2050		2500	7900	8100
Ambient Temperature	-10~60℃				
Filter Precision	Standard:20μm				
Oil Recommended	Turbine oil(ISO VG32)				
Cup Material	Polycarbonate				
Structure	Diston tpye				

XVHS Series Venting Safety Lock-out Valve



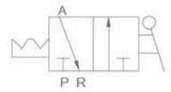
XVHS2000-02



XVHS3000-03



Graphic Symbol



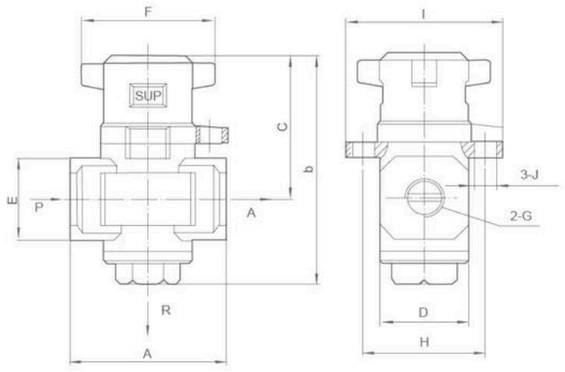
Ordering Code

X	VHS	3000	—	03
XCPC Product	Venting Softing Lock-out Valve Code	Body Size		Port Size
		2000		01:G1/8"
		3000		02:G1/4"
		4000		03:G3/8"
		5000		04:G1/2"
				06:G3/4"
				10:G1"

Features

It is easy to be maintained because it can realse the pressure of the hypo-pressure side when it is working.It can ensure the safty of the maintenance man bceasue of the lockup functinon.

Overall Dimensions



Dimension Sheet

Model	G	Vent size	A	B	C	D	E	F	H	I	J
XVHS2000-01	G1/8	G1/8	40	59	39	28	22	40	32	41	Φ6
XVHS2000-02	G1/4	G1/8	40	59	39	28	22	40	32	41	Φ6
XVHS3000-02	G1/4	G1/4	53	78	49	30	28	45	41.5	53	Φ7.5
XVHS3000-03	G3/8	G1/4	53	78	49	30	28	45	41.5	53	Φ7.5
XVHS4000-03	G3/8	G3/8	70	84	52	36	36	45	41.5	53	Φ7.5
XVHS4000-04	G1/2	G3/8	70	84	52	36	36	45	41.5	53	Φ7.5
XVHS5000-06	G3/4	G1/2	90	136	72	54	48	68	77	90	Φ8.5
XVHS5000-10	G1	G1/2	90	136	72	54	48	68	77	90	Φ8.5

XAV 2000~5000 Series Slow Start Valve



XAV3000-03

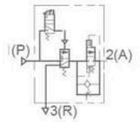
Ordering Code

X	AV	□	2000	□	—	02	—	G	AC220V	G
XCPC Product	Solw Start Valove Code	Type of Control	Body Size	Thread Type		Port Size		Optional	Standard Voltage	Plug Mode
		Blank: Solenoid	2000	Blank:G		02:G1/4"		Blank:Without Gauge	AC110V	G:Grommet type
		A: Pneumatic	3000	R:RC		03:G3/8"		G:With Gauge	AC220V	D:DIN Type
			4000	N:NPT		04:G1/2"			DC12V	
			5000			06:G3/4"			DC24V	
						10:G1"			Other	

Features

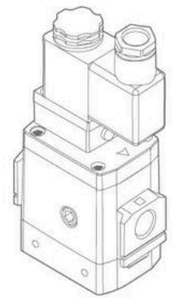
This is a differential balanced valve automatically opens the air port fully when the downstream pressure iss anout 50% of the upstream pressure.Without a pilot,the upstream air flows downstream through the regulation needle.When an external or pneumatic solenoid signal is generated,the valve opens the main port create full flow.It doesn't relieve the downstream circuit.

Graphic Symbol



Specifcation

Model		XAV2000-02	XAV3000-03	XAV4000-04	XAV5000-06	XAV5000-10
Port Size		G1/4"	G3/8"	G1/2"	G3/4"	G1"
Effective sectional area (mm^2)	1(P)-2(A)	20	37	61	113	122
	2(A)-3(R)	24	49	76	132	141
Applicable Pressure Range		0.3~1.0MPa				
Ambientand Fluid Temperature		0~60℃				
Coil voltage rating		DC24V、12V、AC220、110V				
Allow voltage fluctuation		Rated voltage-15%~+10%				
Coil insulation class		B level or the same level				
DC/Consumed power DC		3W				
AC/Apparent power AC		Start:5.6VA Keep: 3.4VA				
Port size of cap for pnuematic version		G1/8				
Lowest pressure for pneumatic version		0.2MPa				



XAMC Serise Exhaust Cleaner



Specifcation

Model	XAMC220-02	HAMC320-02	HAMC320-03	HAMC520-04	HAMC520-06
Port Size	G1/4	G1/4	G3/8	G1/2	G3/4
Effective sectional area(mm2)	12	16	16	55	55
Maximum flow processing(L/min)	200	300	300	1000	1000

Model	XAMC220-02	HAMC320-02	HAMC320-03	HAMC520-04	HAMC520-06
Ambientand Fluid Temperature	5~60℃				
Mufling Effect	More than 35 decibel				
Oil mist recovery effect	More Than 99.9%				
Recycling of oil mist walk way	Female thread hole				
Element one time test pressure	＜ 0.1MPa				

Instructions

1. Must be installed in a vertical position.
2. The filter element should be changed,When the Inlet pressure is 0.1 MPa or used more than 1 year.
3. No exposure to organic solvents.

Features

1. XAMC exhaust cleaning machine is the new generation of energy conservation and environmental protection products.
2. Used to absorb exhaust noise,recover the waste oil and water, to keep clean.
3. Mainly used to collect the noise and oil mist from the whole system.

HAD402 Series Auto Drain

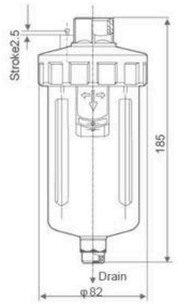


HAD402-04

Specifcation

Model	HAD402-02	HAD402-03	HAD402-04
Ensured Pressure Resistance		1.5MPa	
Operating Pressure		0.15MPa~1.00MPa	
Ambient and Fluid Temperature		5~60℃	
Port Size	G1/4'	G3/8'	G1/2'
Drain Bore		G1/8'	
Drain Status		Normal Open type	
Working Medium		Compressed Air	

Overall Dimensions



Graphic Symbol



Range of Application:

This product often applies to auto remove the see per at the lower places of piping,frozen type air drying machine.Oil separator, air storage tanks and the bottom of various air filters. It can be installed in the places inconvenient for manual discharge of sewage,such as higher,lower and narrow places,especially there slarge consumption of air or frequent water drains.It can prevent the compressed air being re-polluted by con-dense water resulting from neglect of manual drain.

Features:

Auto Drain/Air Shutoff Drain/Manual Drain
The water cup is provided with metal protective cover

Points for Attention:

When using,the drainer should be installed vertically the drain port facing down

SAH402 Series High Pressure Auto Drain



SAH402-04

Specifcation

Model	SAH402-02	SAH402-03	SAH402-04
Ensured Pressure Resistance		2.5MPa	
Operating Pressure		0.15MPa~2.00MPa	
Ambient and Fluid Temperature		5~60℃	
Port Size	G1/4"	G3/8"	G1/2"
Drain Bore	G1/8"	G1/4"	G3/8"
Drain Status		Normal Open type	
Working Medium		Compressed Air	

Overall Dimensions



Graphic Symbol



Range of Application:

This product serves as a drainer for high-pressure air source system and functions to divert water for the whole pipeline system. It is generally used for the equipment inconvenient for manual discharge of water or comparatively high frequency of water discharge such as the low spots of pipeline,freezing type air drier and the water deposit place of air chamber etc.

Features:

Auto Drain
Metal protective cover with view window

Points for Attention:

When using,the drainer should be installed vertically the drain port facing down.

XADV Series Auto Drain



XADV 300-FN



XADV 300-FW



XADV 400-FW(BC-FW)



XADV 400-FN(BC-FN)



XADV 200-G10(AC-G10)



XADV-MA-G14

Ordering Code

XADV	—	200	—	FN/W
Series		**Machine Type**		**Drain Principle**
XADV Series		200 Series 300 Series 400 Series BC Series		F:Floating ball Type N:Female Thread W:Male Thread

Ordering Code

XADV	—	200	—	G10
Series		**Machine Type**		**Drain Principle**
XADV Series		200 Series 300 Series 400 Series BC Series MA Series AC Series		G:Level Type(10,12,14,16 Number Stands for inner diameter of equipped water cup)

Range of Application:

This product is installed at the bottom of water cups for auto dischargers,air filters and air filter regulators and can auto discharge the condense water gathered in the water cup.

Technical Requirements:

Working medium:Compressed air
Ambient and media temperature:5~60℃
Operating pressure range:0.15~1.00Mpa

Features:

Auto drainer/Air Shut off Drain/Manual Drain

Points for Attention:

When using,the drainer should be installed vertically the drain port facing down.

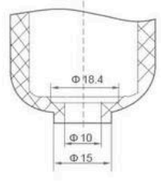
Dimensional Drawing of Water Cup Connecting Part



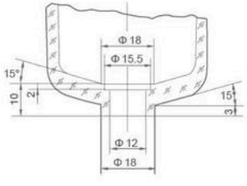
XADV 400-G12
(XADV BC-GN16)



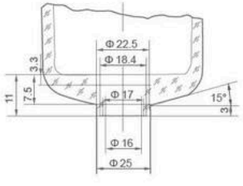
XADV 300-G12
(XADV 300-G14)



XADV-200(AC)



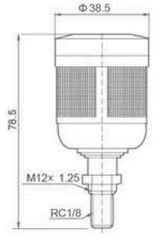
ADV-300



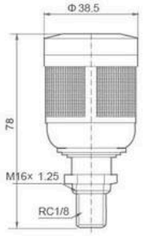
XADV-(BC)

XADV Series Auto Drain

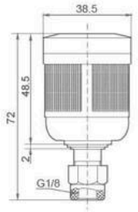
Ordering Code



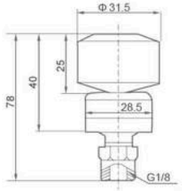
XADV-400-FW



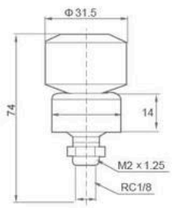
XADV-BC-FW



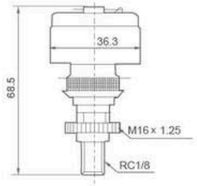
XADV-400-FN(BC-FN)



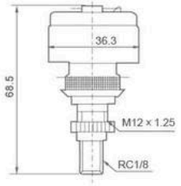
ADV-300-FN



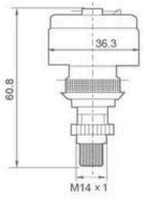
ADV-300-FW



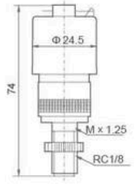
XADV-400-G12



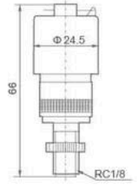
XADV-BC-G16



XADV-MA-G14



XADV-300-G12
(XADV-300-G14)



XADV-200-G10
(XADV-AC-G10)

XO Series Air Unit Accessories

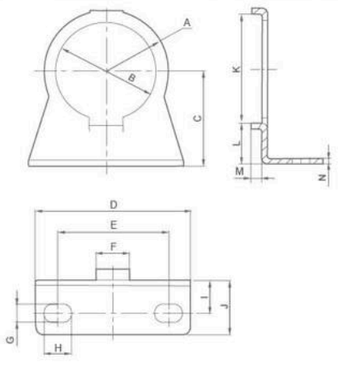
Mounting Bracket OHC

Dimension Sheet

Model	B1	B2	B3	D1	D2
OHC-MINI	2	19	7.3	4.3	43
OHC-MIDI/MAXI	3	19	8.3	5.3	70

Model	H2	H3	H4	L1
OHC-MINI	35	5.5	11	12
OHC-MIDI/MAXI	60	16.5	22	14


Mounting Bracket OHO

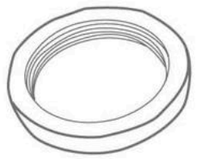


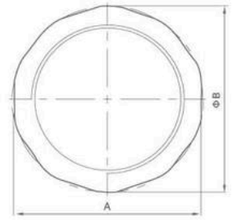
Dimension Sheet

Model	A	B	C	D	E	F	G
OHO-MINI/MAXI	22.5	36.5	35	56	40	12	6.5
OHO-MIDI/MAXI	30	52.5	48	70	53	12	8.5

Model	H	I	J	K	L	M	N
OHO-MINI/MAXI	10	12	20	40.4	15	4	2
OHO-MIDI/MAXI	10.5	17.5	27	55.5	20	4	2

XO Series Air Unit Accessories


Nut HMR



Dimension Sheet

Model	A	B
HMR-MINI/MAXI	44	45
HMR-MIDI	60	62

Model	C	D
HMR-MINI/MAXI	M36x1.5	7
HMR-MIDI	M52x1.5	8


Pressure Gauge OMA

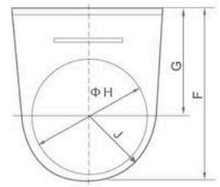
Specifcation

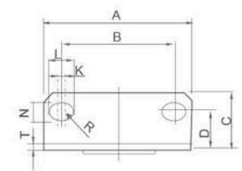
Model	Nominal Size	Pneumatic Connection	Indicating Range
OMA-10-1/8	40	G1/8	0-10 bar
OMA-16-1/8			0-16 bar
OMA-10-1/4	50	G1/4	0-10 bar
OMA-16-1/4			0-16 bar

The Pressure gauge is used to measure and display the pressure of the control system.

XA Series Air Unit Accessories


Bracket for AR/AW

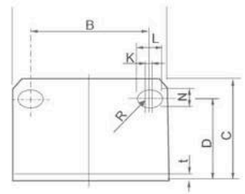


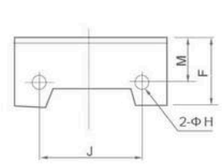


Dimension Sheet

Model	A	B	C	D	F	G	ΦH	J	K	L	N	R	T	Applicable Model
B120	40	28	17	11	37.8	25	20.5	12.3	2	6.5	4.5	2.25	2	AR/AW1000
B220	55	34	25	19	50	30	33.5	20	10	15.4	5.4	2.7	2.3	AR/AW2000/AR2500
B320	53	40	21.5	14	64	39	42.5	25	1.5	8	6.5	3.25	2.3	AR/AW3000
B420	70	54	27	18	79.2	49.2	52.5	30	2	10.5	8.5	4.26	2.3	AR/AW4000-5000


Bracket for AL/AF





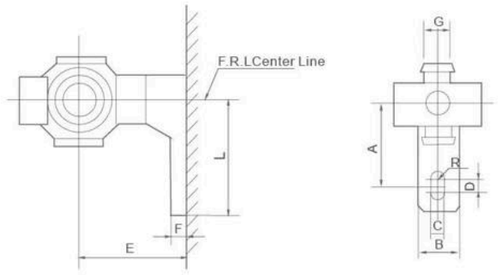
Dimension Sheet

Model	A	B	C	D	F	G	ΦH	J	K	L	N	R	T	Assembly Screw	Applicable Model
B240	40	27	33	27	18	4.5	26	3	8.4	14	5.4	2.7	2.3	M4×8	AF/AL2000
B340	53	40	39	32	22.5	4.5	35	1.5	8	19	6.5	3.25	2.3	M4×8	AF/AL3000
B440	70	54	47	38	31.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5×10	AF/AL4000
B540	70	54	47	38	27.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5×10	AF/AL4000-06
B640	90	66	64	52	43	6.5	60	2	13	29	11	5.5	3.2	M6×10	AF/AL5000

XA Series Air Unit Accessories



Spacer With L-Type Bracket

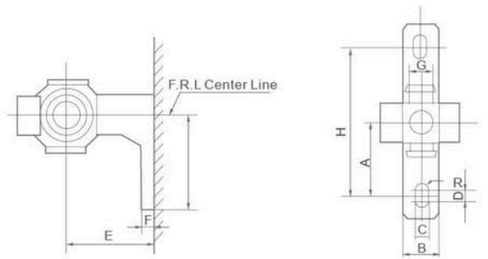


Dimension Sheet

Model	A	B	C	D	E	F	G	R	L	Applicable Model
B110L	20	12	4.5	3	25	5	8	2.25	27	AC1000
B210L	24	15	5.5	3	30	5	10	2.75	33	AC2000
B310L	35	16	7	4	41	7	11	3.5	45	AC2500~3000
B410L	40	22	9	4	50	7	14	4.5	50	AC4000
B510L	40	22	9	4	50	7	14	4.5	50	AC4000-06
B610L	50	23	12	4	69.8	10.5	15	6	63	AC5000



Spacer With T-Type Bracket

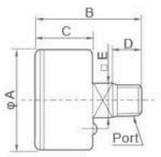


Dimension Sheet

Model	A	B	C	D	E	F	G	H	R	L	Applicable Model
B110T	20	12	4.5	3	25	5	8	40	2.25	27	AC1010
B210T	24	15	5.5	3	30	5	10	48	2.75	33	AC2010
B310T	35	16	7	4	40	7	11	70	3.5	45	AC3010
B410T	40	22	9	4	50	7	14	80	4.5	50	AC4000
B510T	40	22	9	4	50	7	14	80	4.5	50	AC4010-06
B610T	50	23	12	4	69	10.5	15	100	6	63	AC5010

Pressure Gauge

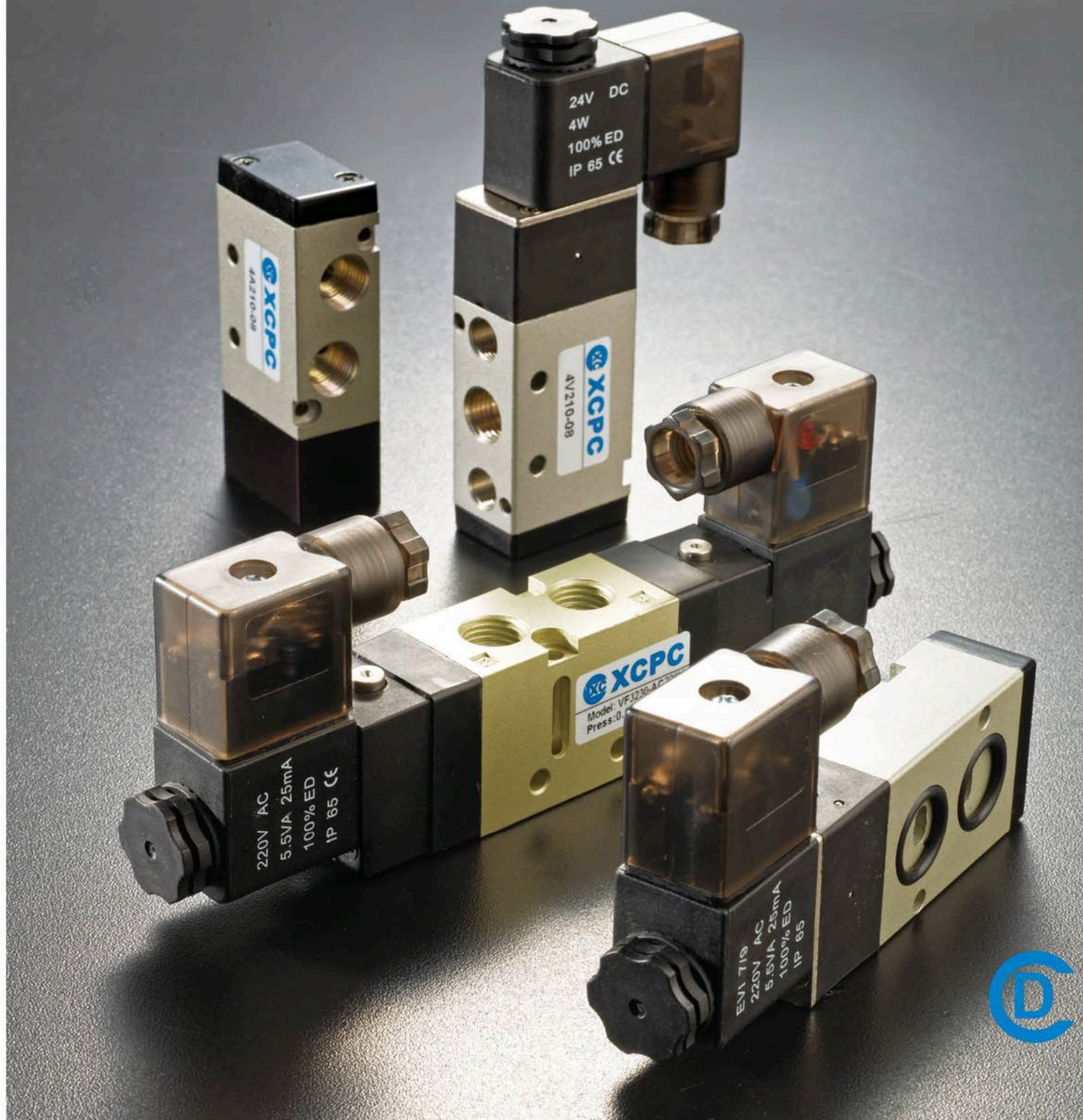




Model	Pressure Range	Port	A	B	C	D	E	Applicable Model
G27-10-R1	0~1MPa(Red) 0~150PSI(Blue)	G1/16"	26	17.5	11	6.5	11	AR1000 AW1000
G36-10-01		G1/8"	42	38.5	24	10	11	AR2000~3000 AW2000~3000
G46-10-02		G1/4"	52.5	43.5	25	10	14	AR4000~5000 AW4000~5000

Solenoid valves

Solenoid valves are used for change directional of air flow, control by electricity. There are 3/2, 5/2 and 5/3 way/position as optional, and the port size from M5 to 1/2".XCPC never stop its step to improve the quality, 2 times life time, less friction inside the valve body and high dust prevention, the new type of solenoid valve is available now.



4V、3V Series Solenoid Valve,4A、3A Series Pneumatic Control Valve



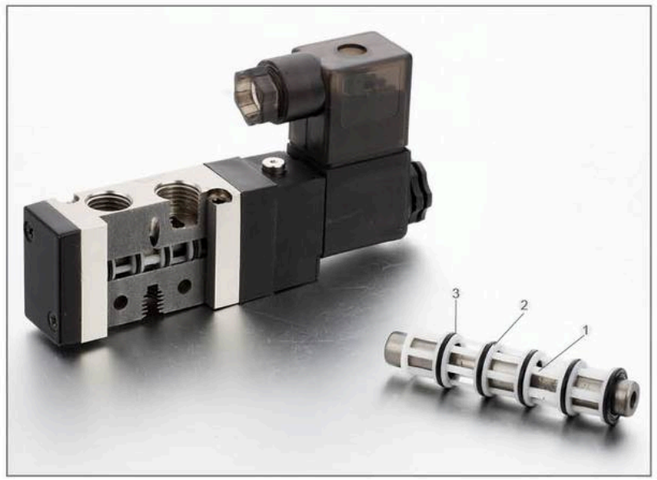
- Except the existing colours, now we have launched black valve body with laser printing model number.
- Other colours of body can be produced if orderd quantity meets our requresed.

Product instruction

This solenoid valve is our new developed product. All the installation dimension is the same as 3V, 4V series, and the valve spindle material is still aluminum, but we changed the material outside valve spindle into POM (polyformaldehyde). Then it will be not only the seal-ring that operate separately, which will bring the new product two advantages:

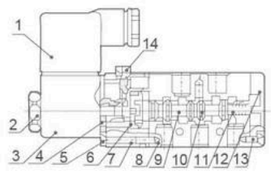
If you need this new product, please add the word "new" (abbreviation "N") after the ordering code, for example: 4V210-08-N.

1. High dust prevention, air-proof
2. One or twice lifetime than normals'
   1. Spool:materal aluminum 6061
   2. O-ring:material NBR
   3. White case:Material POM

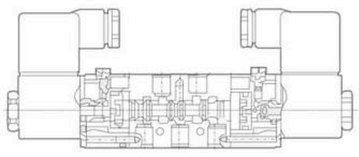


4V Series Internal structure

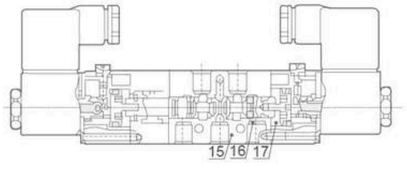
4V110~410



4V120~420



4V130~430

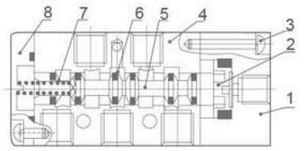


No	Designation	No	Designation
1	Connector	12	Seal ring
2	Nut	13	O-Ring
3	Coil	14	Spool
4	Active Amature	15	O-Ring
5	Steel Part	16	Spring
6	Piston	17	Pin
7	Body	18	Spring Seat
8	Wearing	19	Spring
9	End Cap	20	Side Cover
10	Screw	21	Spring Seat
11	Spring		

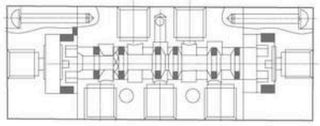
4V、3V Series Solenoid Valve,4A、3A Series Pneumatic Control Valve

4A Series Internal structure

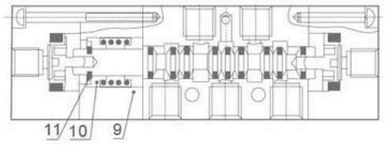
4A110~410



4A120~420



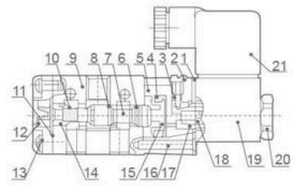
4A130~430



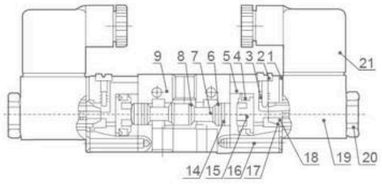
No	Designation
1	Air control cover
2	Piston
3	Screw
4	Valve body
5	Spool
6	O-Ring
7	Spring
8	Rear cover
9	Back seat
10	Spring seat
11	C-type buckle

3V Series Internal structure

3V110~410



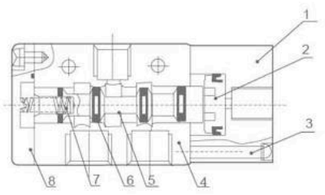
3V120~420



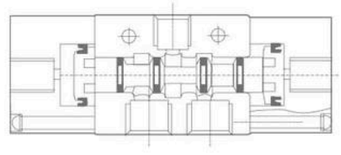
No	Designation	No	Designation
1	Washer	12	End Cap
2	Pin	13	Screw
3	Spring	14	Wearing
4	O-Ring	15	Piston
5	Body	16	Screw
6	O-Ring	17	O-Ring
7	Spool	18	Active Amature
8	O-Ring	19	Coil
9	Body	20	Nut
10	Spring	21	Connector
11	Seal		

3A Series Internal structure

3A110~410



3A120~420



No	Designation
1	Air control cover
2	Piston
3	Screw
4	Valve body
5	Spool
6	O-Ring
7	Spring
8	Rear cover

4V、3V100 Series Solenoid Valve,4A、3A 100 Series Pneumatic Control Valve



4A110-06



4V110-06



3A120-06



3V120-06

Ordering Code

4V		1		10	—	06	□	—	AC220V	—	□

Specification Code
4V:Two(Three)-position Five-way Solenoid ValVe
4A:Two(Three)-position Five-way pneumatic control valve
3V:Two-position Three-way Solenoid valve
3A:Two-position Three-way pneumatic control valve

Series Code
100 Series

Coil and Places
10:Single-head Double-position
20:Double-head Double-position
30C:Double-head Three-position Close Type
30E:Double-head Three-position Exhaust Type
30P:Double-head Three-position Pressure Type

Port Size
M5:M5×0.8
06:G1/8"

Port connection and Initial State
NC:Two-position Three-way Normal Close Type
NO:Two-positiOn Three-way Normal Open Type

Standard Voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

Wiring Form
Blank:Standard Connector
LD:Brown With Lighting Connector
LD1:White With Lighting Connector
W:Lead Wire Type

Specifcation

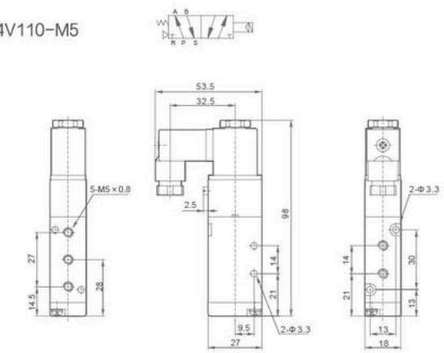
Model	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
	4A110-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	10mm²(CV=0.56)		7mm²(CV=0.40)			12mm²(CV=0.67)		9mm²(CV=0.5)		

Model	3V110-M5	3V120-M5	3A110-M5	3A120-M5	3V110-06	3V120-06	3A110-06	3A120-06
Position and Way NO.	Two-position Three-way				Two-position Three-way			
Effective Section Area	10mm²(CV=0.56)				12mm²(CV=0.67)			
Joint Pipe Bore	Air Inlet=Air Outlet=Exhaust=M5x0.8				Air Inlet=Air Outlet=Exhaust=Gl/8"			
Working Medium	40 Micron Filtered Air							
Motion Pattern	Inner Guide Type							
Working-pressure	0.15~0.8 M Pa							
Max. Pressure Resistance	1.2MPa							
Operating Temperature	5~50℃							
Voltage Range	±10%							
Power Consumption	AC: 2.5VA DC: 2.5W							
Insulation & Protection Class	F Class. IP65							
Wiring Form	Lead Wire or Connector type							
Highest Action Frequency	5 Cycle / Second							
Shortest Excitation Time	0.05 Second							

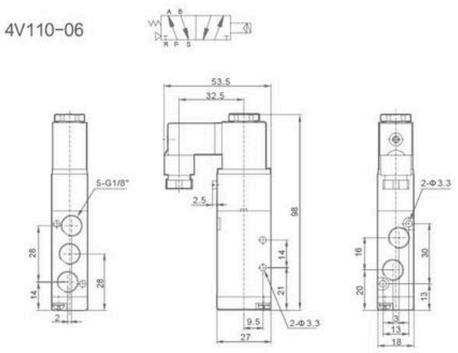
4V、3V100 Series Solenoid Valve,4A、3A100 Series Pneumatic Control Valve

Overall Dimensions

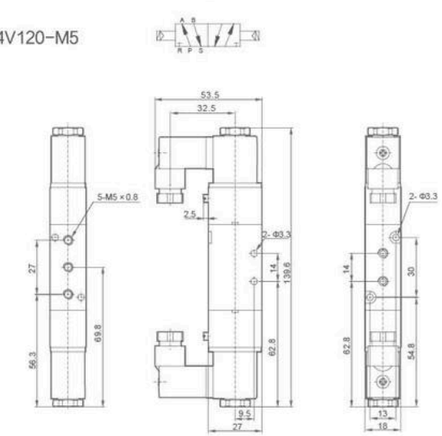
4V110-M5



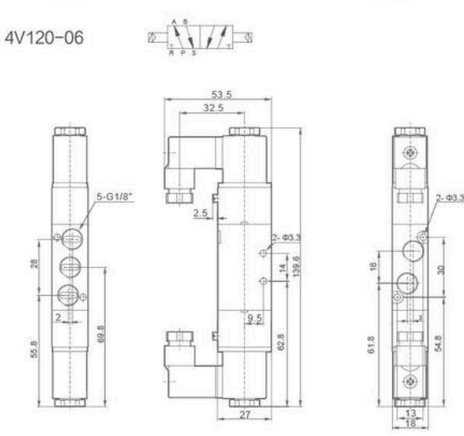
4V110-06



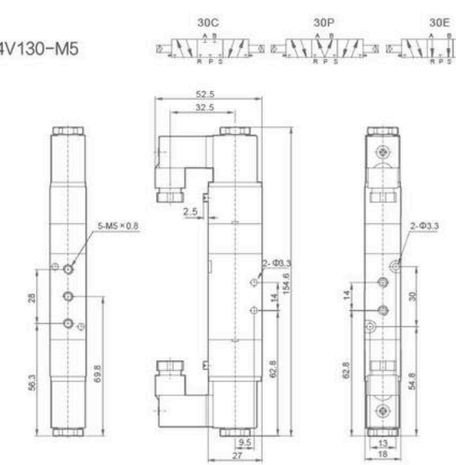
4V120-M5



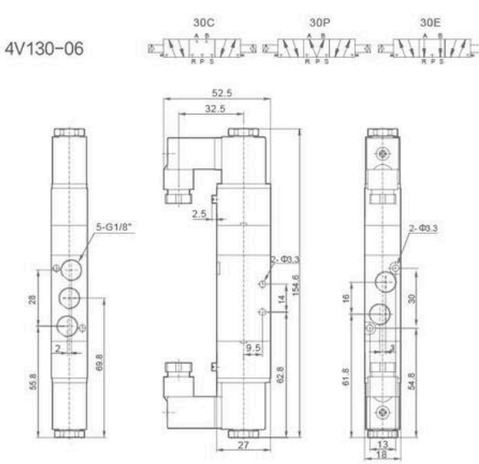
4V120-06



4V130-M5



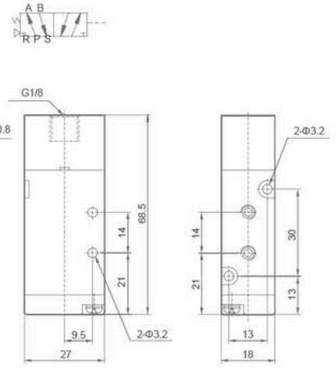
4V130-06



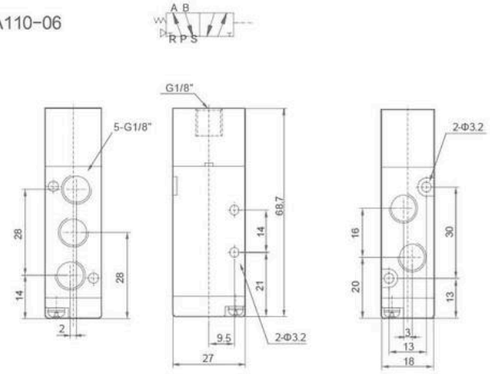
4V、3V100 Series Solenoid Valve,4A、3A 100 Series Pneumatic Control Valve

Overall Dimensions

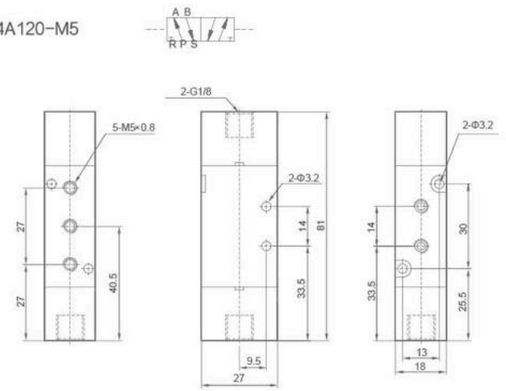
4A110-M5



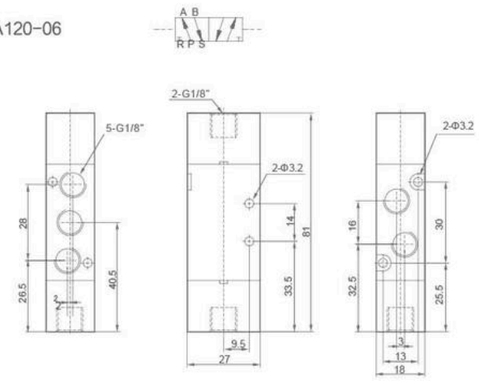
4A110-06



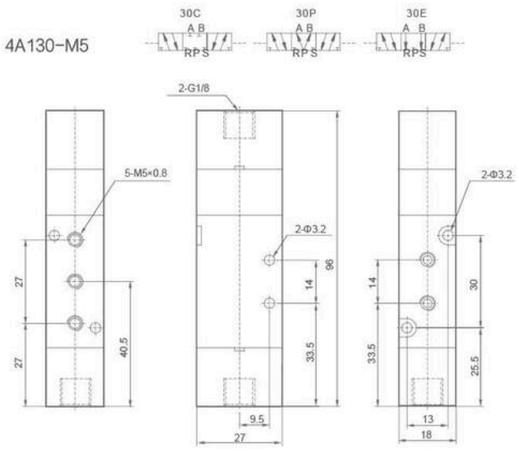
4A120-M5



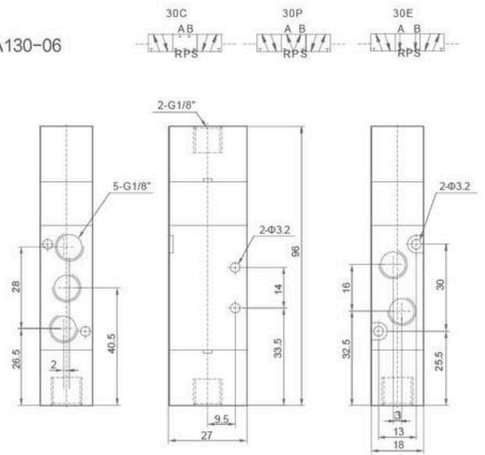
4A120-06



4A130-M5



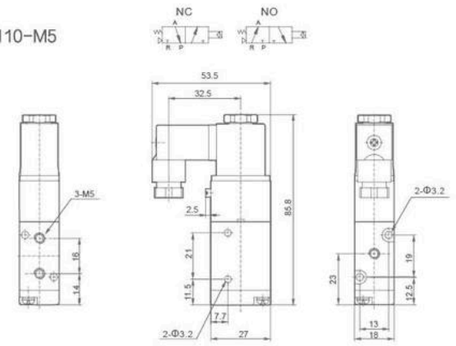
4A130-06



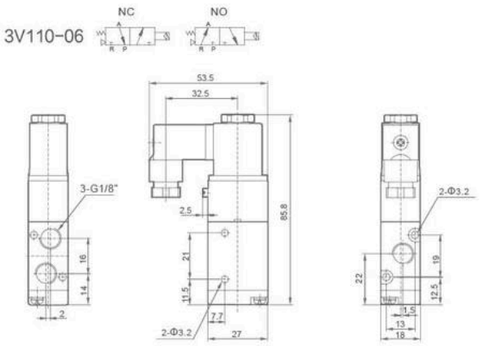
4V、3V100 Series Solenoid Valve,4A、3A100 Series Pneumatic Control Valve

Overall Dimensions

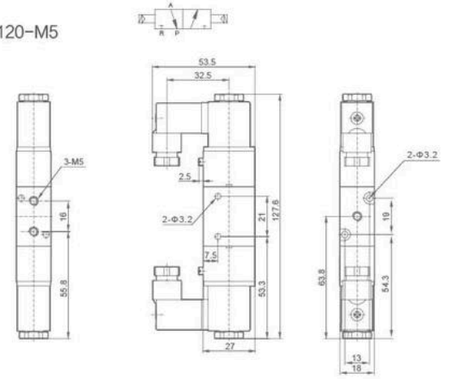
3V110-M5



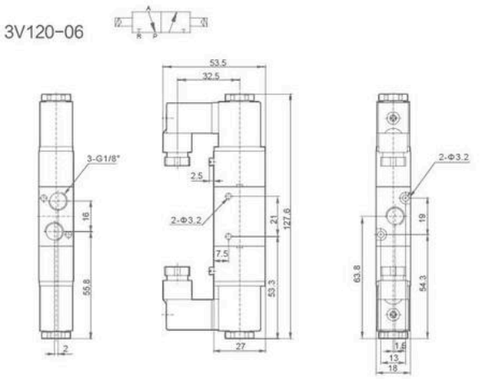
3V110-06



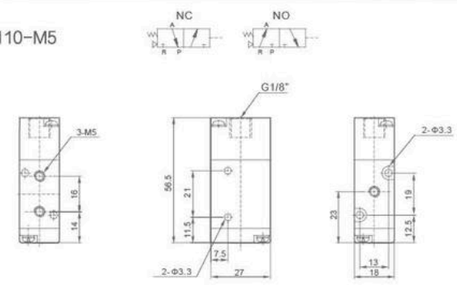
3V120-M5



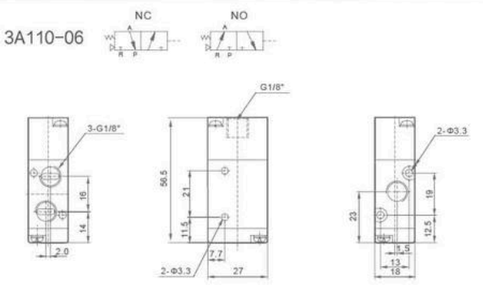
3V120-06



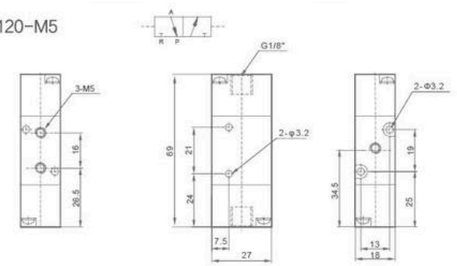
3A110-M5



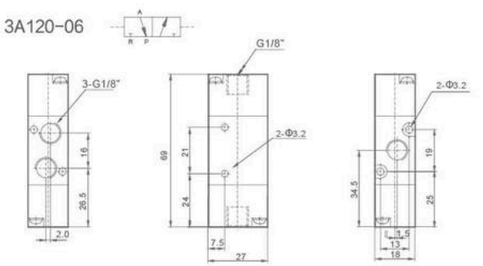
3A110-06



3A120-M5



3A120-06



4V、3V200 Series Solenoid Valve,4A、3A 200 Series Pneumatic Control Valve



4A210-08



4V210-08



3A220-08



3V220-08

Ordering Code

4V	2	10	—	08	□	—	AC220V	—	□

Specification Code
4V:Two(Three)-position Five-way Solenoid Valve
4A:Two(Three)-position Five-way pneumatic control valve
3V:Two-position Three-way Solenoid Valve
3A:Two-position Three-way Pneumatic Control Valve

Series Code
200 Series

Coil and Places
10:Single-head double-position
20:Double-head double-position
30C:Double-head Three-position Close Type
30E:Double-head Three-position Exhaust Type
30P:Double-head Three-position Pressure Type

Port Size
06:G1/8"
08:G1/4"

Port connection and Initial State
NC:Two-position Three-way Normal Close Type
NO:Two-positiOn Three-way Normal Open Type

Standard Voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

Wiring Form
Blank:Standard Connector
LD:Brown With Lighting Connector
LD1:White With Lighting Connector
W:Lead Wire Type

Specifcation

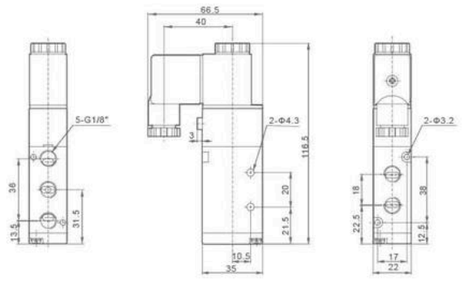
Model	4V210-06 / 4A210-06	4V220-06 / 4A220-06	4V230C-06 / 4A230C-06	4V230E-06 / 4A230E-06	4V230P-06 / 4A230P-06	4V210-08 / 4A210-08	4V220-08 / 4A220-08	4V230C-08 / 4A230C-08	4V230E-08 / 4A230E-08	4V230P-08 / 4A230P-08
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	14mm²(CV=0.78)		12mm²(CV=0.67)			16mm²(CV=0.89)		12mm²(CV=0.67)		

Model	3V210-06	3V220-06	3A210-06	3A220-06	3V210-08	3V220-08	3A210-08	3A220-08
Position and Way NO.	Two-position Three-way				Two-position Three-way			
Effective Section Area	14mm²(CV=0.78)				16mm²(CV=0.89)			
Joint Pipe Bore	Air Inlet=Air Outlet=Exhaust=G1/8"				Air Inlet=Air Outlet 1/4" Exhaust=GI/"1/8"			
Working Medium	40 Micron Filtered Air							
Motion Pattern	Inner Guide Type							
Working-pressure	0.15~0.8 M Pa							
Max. Pressure Resistance	1.2MPa							
Operating Temperature	5~50℃							
Voltage Range	±10%							
Power Consumption	AC: 2.5VA DC: 2.5W							
Insulation & Protection Class	F Class. IP65							
Wiring Form	Lead Wire or Connector type							
Highest Action Frequency	5 Cycle / Sec							
Shortest Excitation Time	0.05 Second							

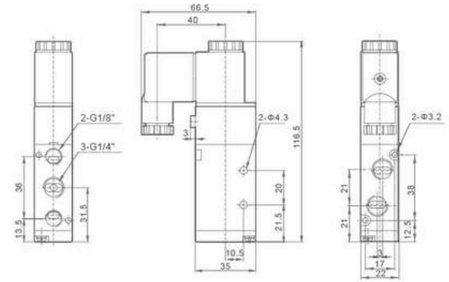
4V、3V200 Series Solenoid Valve,4A、3A200 Series Pneumatic Control Valve

Overall Dimensions

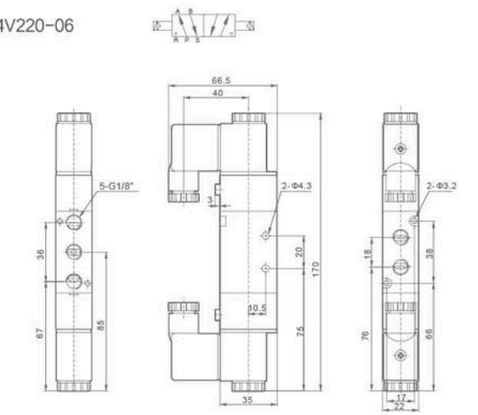
4V210-06



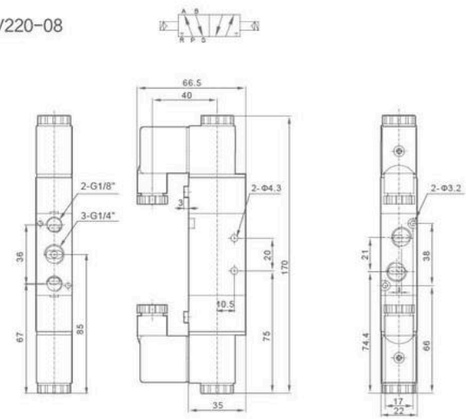
4V210-08



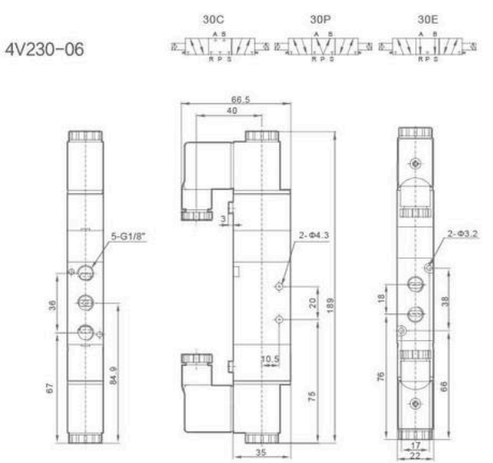
4V220-06



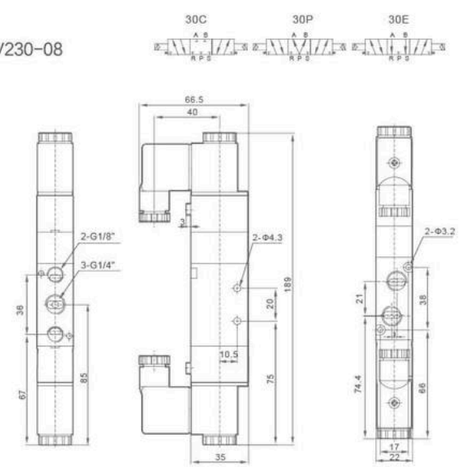
4V220-08



4V230-06



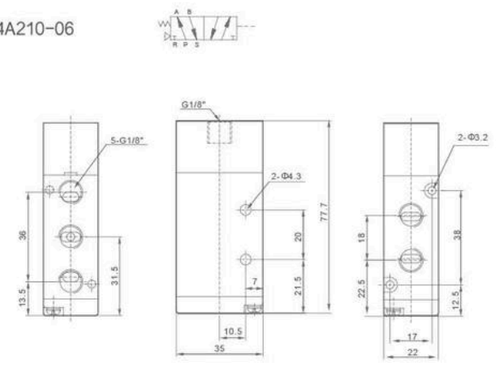
4V230-08



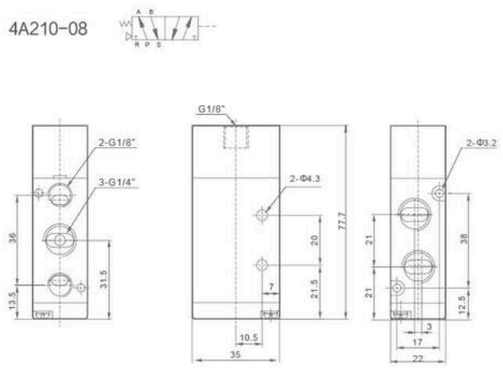
4V、3V200 Series Solenoid Valve,4A、3A 200 Series Pneumatic Control Valve

Overall Dimensions

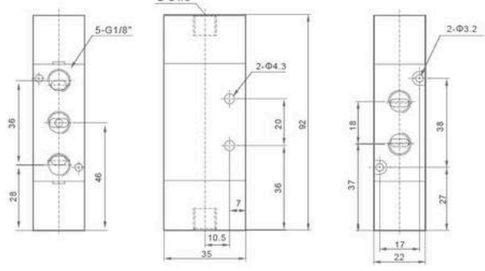
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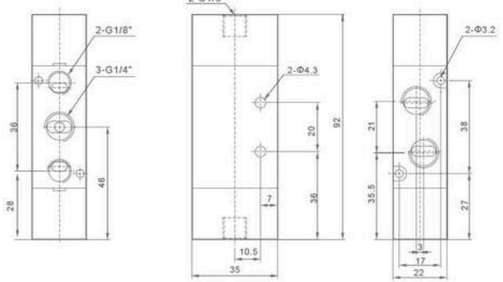
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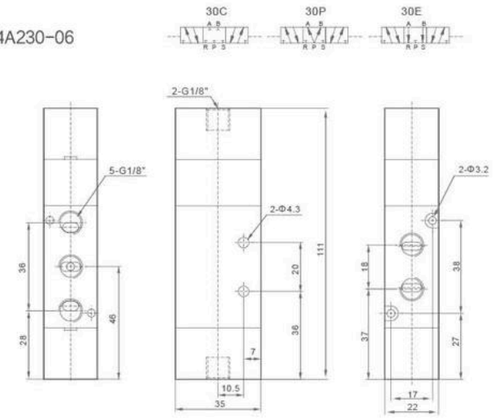
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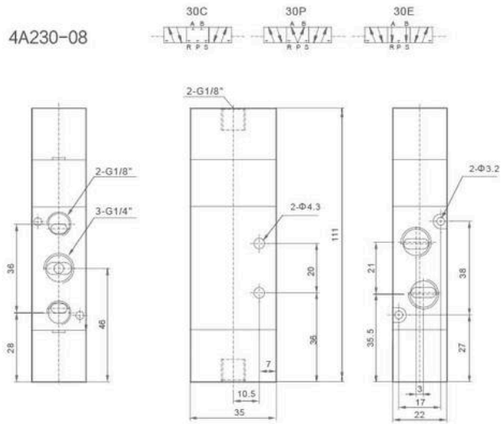
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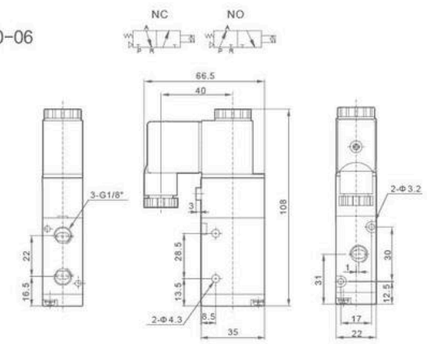
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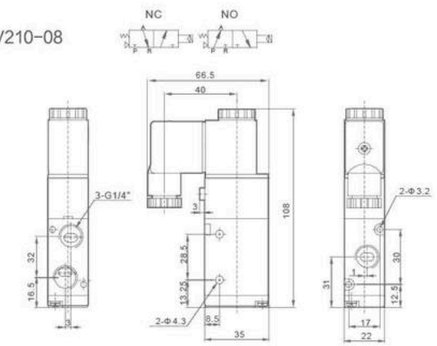
4V、3V200 Series Solenoid Valve,4A、3A200 Series Pneumatic Control Valve

Overall Dimensions

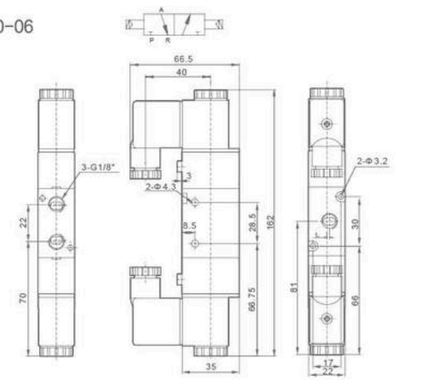
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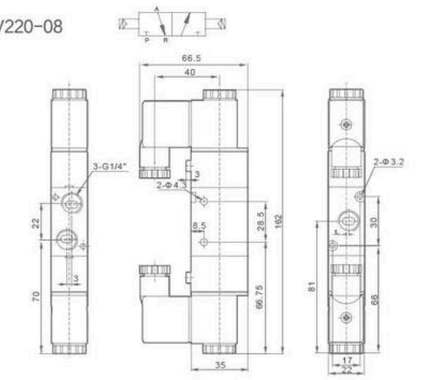
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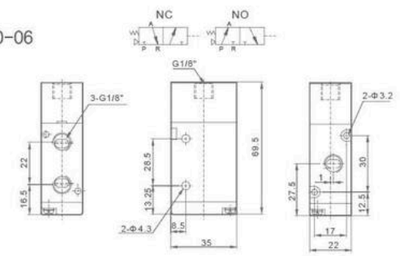
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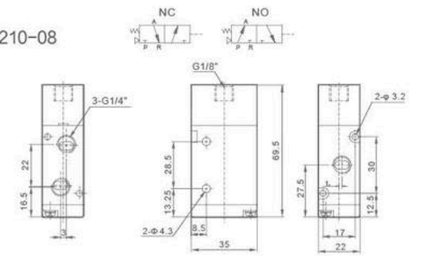
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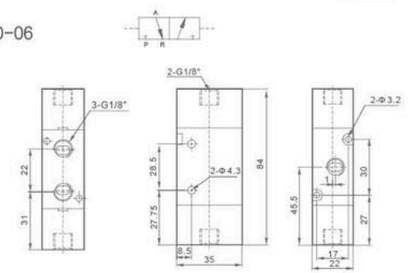
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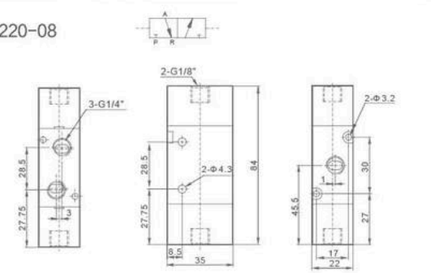
3A210-08



3A220-06



3A220-08



4V、3V300 Series Solenoid Valve,4A、3A 300 Series Pneumatic Control Valve



4A310-10



4V320-10



3A310-10



3V310-10

Ordering Code

4V	3	10	—	10	□	—	AC220V	—	□
Specification Code	Series Code	Coil and Places		Port Size	Port connection and Initial State		Standard Voltage		Wiring Form

Specification Code
4V:Two(Three)-position Five-way Solenoid Valve
4A:Two(Three)-position Five-way pneumatic control Valve
3V:Two-position Three-way Solenoid Valve
3A:Two-position Three-way Pneumatic Control Valve

Series Code
300 Series

Coil and Places
10:Single-head Double-position
20:Double-head Double-position
30C:Double-head Three-position Close Type
30E:Double-head Three-position Exhaust Type
30P:Double-head Three-position Pressure Type

Port Size
08:G1/4"
10:G3/8"

Port connection and Initial State
NC:Two-position Three-way Normal Close Type
NO:Two-position Three-way Normal Open Type

Standard Voltage

DC12V		
DC24V		
AC24V	50Hz/60Hz	
AC110V	50Hz/60Hz	
AC220V	50Hz/60Hz	
AC380V	50Hz/60Hz	

Wiring Form
Blank:Standard Connector
LD:Brown With Lighting Connector
LD1:White With Lighting Connector
W:Lead Wire Type

Specifcation

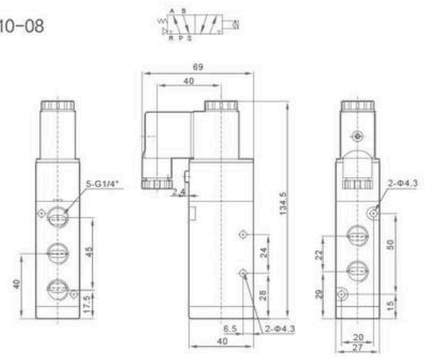
Model	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	25mm²(CV=1.40)		18mm²(CV=1.00)			30mm²(CV=1.68)		18mm²(CV=1.00)		

Model	3V210-08	3V220-08	3A310-08	3A320-08	3V310-10	3V2320-10	3A310-10	3A220-10
Position and Way NO.	Two-position Three-way				Two-position Three-way			
Effective Section Area	25mm²(CV=1.40)				30mm²(CV=1.68)			
Joint Pipe Bore	Air Inlet=Air Outlet=Exhaust=G1/4"				Air Inlet=Air Outlet=3/8" Exhaust=G1/4"			
Working Medium	40 Micron Filtered Air							
Motion Pattern	Inner Guide Type							
Working-pressure	0.15~0.8 M Pa							
Max. Pressure Resistance	1.2MPa							
Operating Temperature	5~50℃							
Voltage Range	±10%							
Power Consumption	AC: 4.5VA DC: 3W							
Insulation & Protection Class	F Class. IP65							
Wiring Form	Lead Wire or Connector type							
Highest Action Frequency	5 Cycle / Sec							
Shortest Excitation Time	0.05 Second							

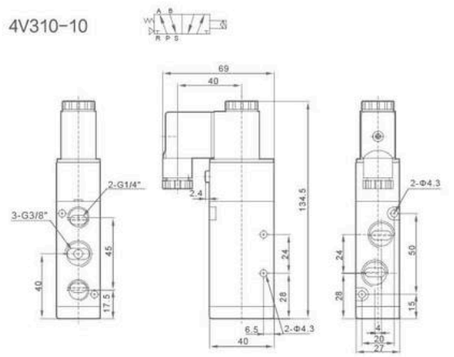
4V、3V300 Series Solenoid Valve,4A、3A300 Series Pneumatic Control Valve

Overall Dimensions

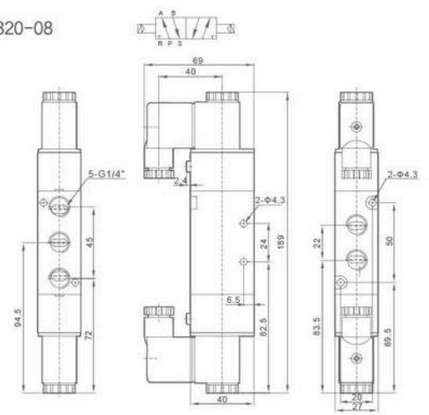
4V310-08



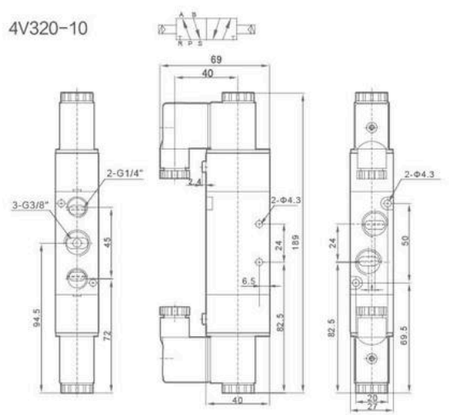
4V310-10



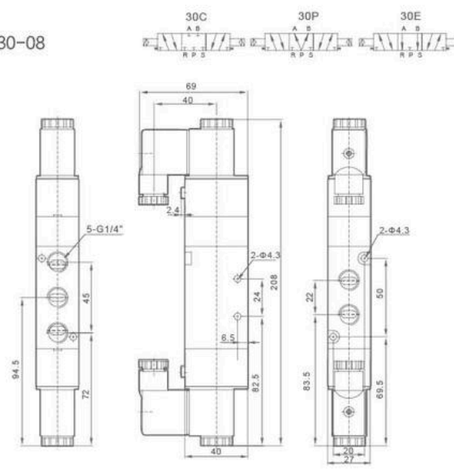
4V320-08



4V320-10



4V330-08



4V330-10

