



## SWITCHOVER DOCUMENT

### AC Series Air Combination Units

# Improved features and related benefits

## Feature

- ISO 8573-4:2010 certified air purity

## Customer Benefit

- Guarantee the correct air purity for each system

## Feature

- Improved flow rate

## Customer Benefit

- Smaller sizes applicable for the same purpose

## Feature

- Clean design and uniform style

## Customer Benefit

- Improved appearance and reduced foreign matter accumulation

Current product



New product



## Applicable product map

[Applicable product]

AC-A,AC-B,AF-A,AFM-A,AFD-A,AR-A,AR-B,AL-A,AW-A,AW-B,Y□00(T)-A,E□00-A,Y□10-A,Y□4-A,IS10M-A,IS10E-A,  
Y□0(L,T)-A,E□0-A,Y□1-A,IS10M-□Y-A,IS10E-□Y-A,AWM,AWD,VHS-A/B,VHS□510-A/B

\*FRL10-A series, made-to-order products based on external metal (X425/X430/X440/X470/X480/X2622 etc.) and their derivatives are exempted.

Map of applicable products

Product no.	Specifications	Model															
		AC	AF	AFM	AFD	AR	AL	AW	AWM	AWD	VHS	Y□00(T)	E□00	Y□10	Y□4	IS10M	IS10E
Name		Air Combination	Air Filter	Mist Separator	Micro Mist Separator	Regulator	Lubricator	Filter Regulator	Mist Separator Regulator	Micro Mist Separator Regulator	Pressure Relief 3-Port Valve	Spacer Spacer with bracket	Piping Adapter	T-Spacer	Cross Spacer	Pressure Switch	Pressure Switch with Piping Adapter
-	Standard	●*1	●*1	●	●	●*1	●*1	●*1	●	●	●	●	●	●	●	●	●
X64	Long bowl	●	●	●	●	-	●	●	●	●	-	-	-	-	-	-	-
X406	0.4MPa setting	-	-	-	-	●	-	●	●	●	-	-	-	-	-	-	-
X425	High pressure (P1=2.0MPa/P2=1.7MPa)	-	○	-	-	○	-	○	-	-	-	-	-	-	-	-	-
X430	Low temperature (-30℃~60℃)	-	○	-	-	○	○	○	-	-	-	-	-	-	-	-	-
X440	High temperature (-5℃~80℃)	-	○	-	-	○	○	○	-	-	-	-	-	-	-	-	-
X2141	With element service indicator*2	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-
X2400	Grease-free	-	-	-	-	●*3	-	●*4	-	-	-	-	-	-	-	-	-
X2622	Stainless Steel 316 + Special Temperature Environment (-40℃) Specifications	-	○	-	-	○	-	○	-	-	-	-	-	-	-	-	-
10-	Low particle generation	-	●	●	●	●	-	●	●	●	-	-	-	-	-	-	-
21-	Copper, Fluorine and Silicone-free + Low particle generation	-	●	●	●	●	-	●	●	●	-	-	-	-	-	-	-
25A-	Secondary batteries	-	●	●	●	●	-	●	●	●	●	-	-	-	-	-	-
X155	Fluorine rubber	-	Special order	Special order	Special order	Special order	Special order	Special order	Special order	Special order	-	-	-	-	-	-	-
X401	Without drain cock	-	●	●	●	-	-	-	Special order	Special order	-	-	-	-	-	-	-
X441	Bronze element (5µm)	Special order	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-
X470	External metal	-	-	-	-	○	-	○	-	-	-	-	-	-	-	-	-
X480	Epoxy resin coated	○	○	○	○	○	○	○	-	-	-	-	Special order	Special order	-	-	-
X490	Metal bonnet	-	-	-	-	Special order	-	Special order	-	-	-	-	-	-	-	-	-
-7	Non-standard rated filtration	Special order	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-
20-	Copper/Fluorine-free	Special order	Special order	Special order	Special order	Special order	-	Special order	Special order	Special order	-	-	-	-	-	-	-
56-	ATEX compliant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●
3C-	CCC compliant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●
80-	Low concentration ozone measures	-	-	-	-	●	-	●	Special order	Special order	-	-	-	-	-	Special order	Special order

● Consolidated target, ○ Continued to sell

\*1 The FRL10-A series will continue in its current form.


\*2 If you want to select "With element service indicator" for the new product, you can use the semi-standard to do so.

\*3 For details, please contact SMC

\*4 For details, please contact SMC


## Standard Specification

Model		AC-B	AC-D
Type		Filter + lubricator + regulator	Filter + lubricator + regulator
Max. flow rate [l/min] (P1=0.7 MPa, P2=0.5 MPa, ΔP=0.1)	Size 20	800	1500
	Size 30	1500	3000
	Size 40	5000	5000
	Size 50	10000	10000
	Size 60	10000	12000
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.39	0.38
	Size 30	0.70	0.75
	Size 40	0.78	1.42
	Size 50	3.43	3.34
	Size 60	3.76	3.60

 Difference in specifications


## Standard Specification

Model		ACA-B	ACA-D
Type		Filter-regulator + Lubricator	Filter-regulator + Lubricator
Max. flow rate [l/min] (P1=0.7 MPa, P2=0.5 MPa, ΔP=0.1)	Size 20	800	1500
	Size 30	1500	2500
	Size 40	4000	4000
	Size 50	10000	10000
	Size 60	10000	13800
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.33	0.31
	Size 30	0.63	0.58
	Size 40	1.15	1.12
	Size 50	3.21	2.90
	Size 60	3.36	2.97

 Difference in specifications


## Standard Specification

Model		ACB-B	ACB-D
Type		Filter + Regulator	Filter + Regulator
Max. flow rate [l/min] (P1=0.7 MPa, P2=0.5 MPa, ΔP=0.1)	Size 20	800	1500
	Size 30	1500	3000
	Size 40	5000	5000
	Size 50	10000	10000
	Size 60	10000	13800
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.27	0.25
	Size 30	0.53	0.51
	Size 40	0.91	0.95
	Size 50	2.27	2.2
	Size 60	2.45	2.39

 Difference in specifications


## Standard Specification

Model		ACC-B	ACC-D
Type		Filter + Mist separator + Regulator	Filter + Mist separator + Regulator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	200	200
	Size 30	450	450
	Size 40	1100	1100
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.38	0.38
	Size 30	0.69	0.75
	Size 40	1.39	1.42

 Difference in specifications

## Standard Specification


Model		ACD-B	ACD-D
Type		Filter-regulator + Mist separator	Filter-regulator + Mist separator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	150	200
	Size 30	330	450
	Size 40	800	1100
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.32	0.30
	Size 30	0.62	0.58
	Size 40	1.15	1.12

 Difference in specifications



## Standard Specification

Model		AF-A	AF-D
Type		Filter	Filter
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	1500	1500
	Size 30	3600	3600
	Size 40	5800	5100
	Size 50	11000	11000
	Size 60	12500	12500
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.08	0.09
	Size 30	0.18	0.17
	Size 40	0.36	0.35
	Size 50	0.87	0.85
	Size 60	1	0.92

 Difference in specifications


## Standard Specification

Model		AFM-B	AFM-D
Type		Mist separator	Mist separator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	200	200
	Size 30	450	450
	Size 40	1100	1100
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.09	0.1
	Size 30	0.19	0.18
	Size 40	0.38	0.37

 Difference in specifications

## Standard Specification

Model		AFD-B	AFD-D
Type		Micro mist separator	Micro mist separator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	120	120
	Size 30	240	240
	Size 40	600	600
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.09	0.1
	Size 30	0.19	0.18
	Size 40	0.38	0.37

 Difference in specifications


## Standard Specification

Model		AR-B	AR-D
Type		Regulator	Regulator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	800	1500
	Size 30	1500	3000
	Size 40	3000	5000
	Size 50	10000	17600
	Size 60	10000	20000
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
Weight [kg]	Size 20	0.16	0.14
	Size 30	0.29	0.27
	Size 40	0.44	0.48
	Size 50	1.17	1.12
	Size 60	1.22	1.25

 Difference in specifications


## Standard Specification

Model		AL-B	AL-D
Type		Lubricator	Lubricator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	3800	3800
	Size 30	6000	6000
	Size 40	8000	8000
	Size 50	12700	15000
	Size 60	15000	15000
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
Weight [kg]	Size 20	0.1	0.1
	Size 30	0.2	0.12
	Size 40	0.38	0.37
	Size 50	0.94	0.92
	Size 60	1.09	0.99

 Difference in specifications

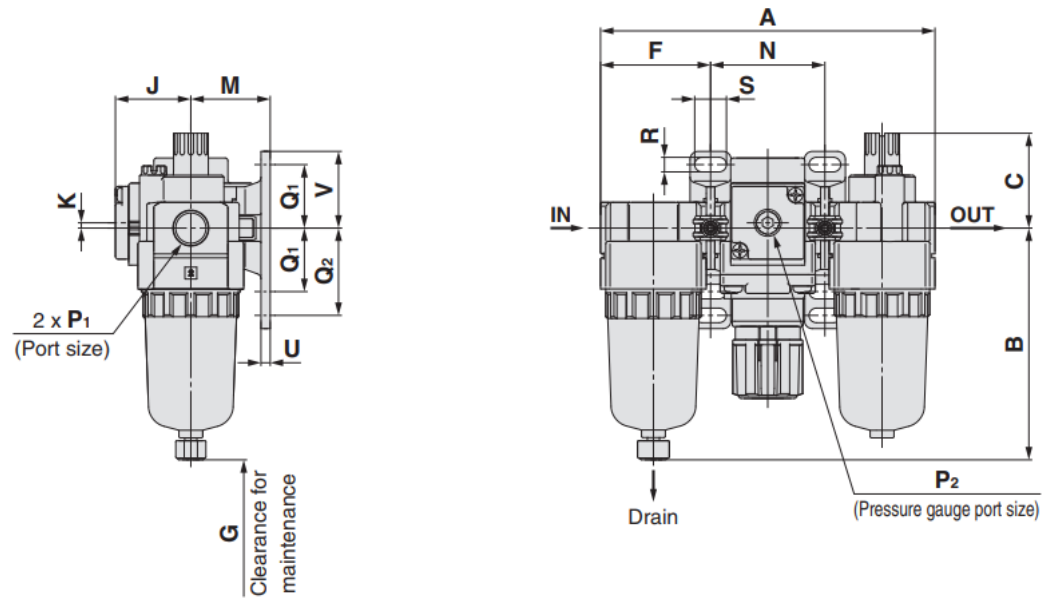
## Standard Specification

Model		AW-B	AW-D
Type		Filter-regulator	Filter-regulator
Rated flow rate [l/min] (P1=0.7 MPa)	Size 20	800	1500
	Size 30	1500	2500
	Size 40	3000	4000
	Size 60	10000	13700
Ambient and fluid temperature [°C]		-5 to 60	-5 to 60
Max. operating pressure [MPa]		1.0	1.0
ISO 8573-4:2010 compliance		No	Yes
Weight [kg]	Size 20	0.2	0.18
	Size 30	0.36	0.34
	Size 40	0.66	0.64
	Size 60	2.05	1.76

 Difference in specifications

## Dimensions

AC-B vs. AC-D

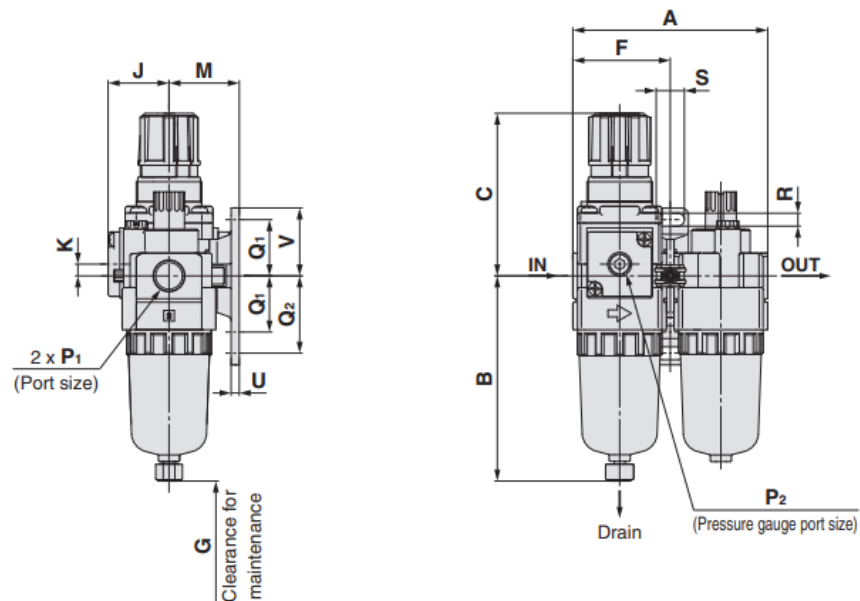


Model	P1	A	B	C		E	F	G	J		K	
Model	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D
AC20	1/8, 1/4	126.4	87.6	35.9	35.9	-	41.6	60	12.5	21	2	2
AC30	1/4, 3/8	167.4	115.1	38.1	38.1	30	55.1	80	29.4	26.5	3.5	3.5
AC40	1/4, 3/8, 1/2	220.4	147.1	39.8	44	38.4	72.6	110	33.8	35.5	3.5	-
AC40-06	3/8	235.4	149.1	37.8	44	38.4	77.6	110	35.5	35.5	3	-
AC50	3/4, 1	282.4	220.1	41.2	48	-	93.1	110	43.3	45	3.2	-
AC60	1	297.4	234.1	44.7	48	-	98.1	110	43.3	45	3.2	-

Difference in specifications

## Dimensions

ACA-B vs. ACA-D



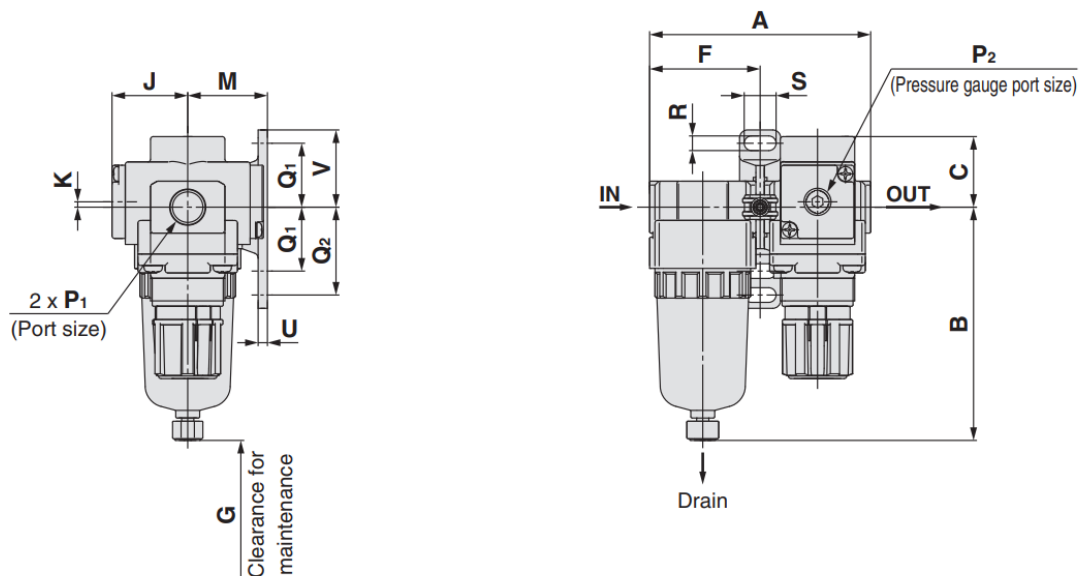
Model	P1	A	B	C		E	F	G	J		K	
Model	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D
AC20A	1/8, 1/4	83.2	87.6	72.4	71.8	-	41.6	60	28.5	21	5	5
AC30A	1/4, 3/8	110.2	115.3	85.6	86.5	30	55.1	80	29.4	26.5	3.5	3.5
AC40A	1/4, 3/8, 1/2	145.2	147.1	91.7	91.5	38.4	72.6	110	33.8	35.5	1.5	-
AC40A-06	3/8	155.2	149.1	93.2	93	38.4	41.6	110	33.8	35.5	1.2	-
AC50A	3/4, 1	191.2	234.1	175.5	155	-	98.1	110	43.3	45	3.2	-
AC60A	1	191.2	234.1	175.5	155	-	98.1	110	43.3	45	3.2	-

Difference in specifications



## Dimensions

ACB-B vs. ACB-D

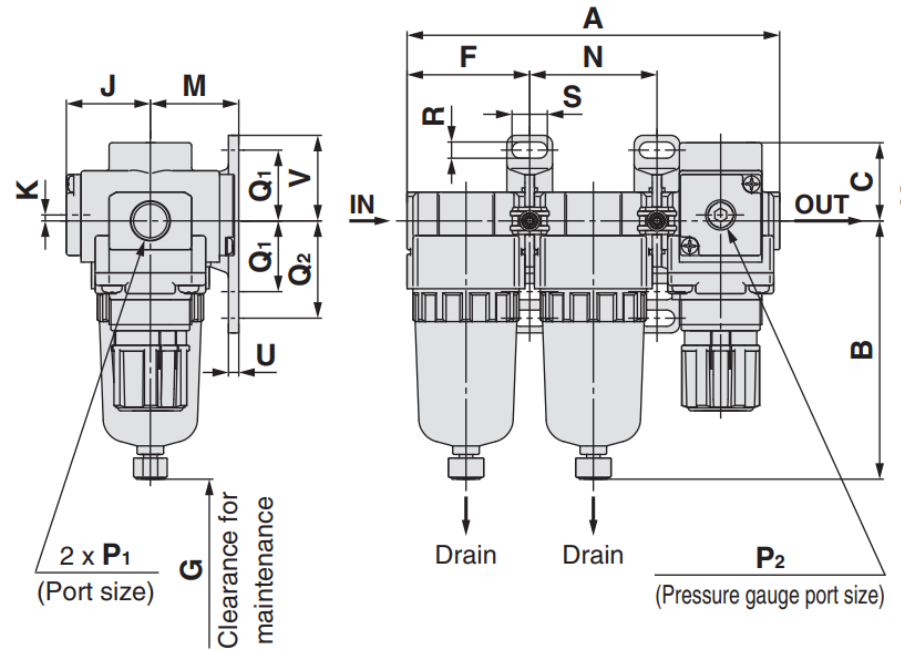


Dimension	P1	A	B		C		E	F	G	J		K	
Model	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D
AC20B	1/8, 1/4	83.2	87.6	87.6	26.5	26.5	-	41.6	25	28.5	21	2	2
AC30B	1/4, 3/8	110.2	115.1	115.4	30.7	30.5	30	55.1	35	29.4	26.5	3.5	3.5
AC40B	1/4, 3/8, 1/2	145.2	147.1	147.1	35.8	35.5	38.4	72.6	40	33.8	35.5	3.5	-
AC40B-06	3/8	155.2	149.1	149.1	35.58	35.5	38.4	77.6	40	33.8	35.5	3	-
AC50B	3/4, 1	186.2	220.1	220.1	43	43	-	93.1	30	43.3	45	3.2	-
AC60B	1	196.2	234.1	234.1	45	45	-	98.1	30	43.3	45	3.2	-

Difference in specifications

## Dimensions

ACC-B vs. ACC-D

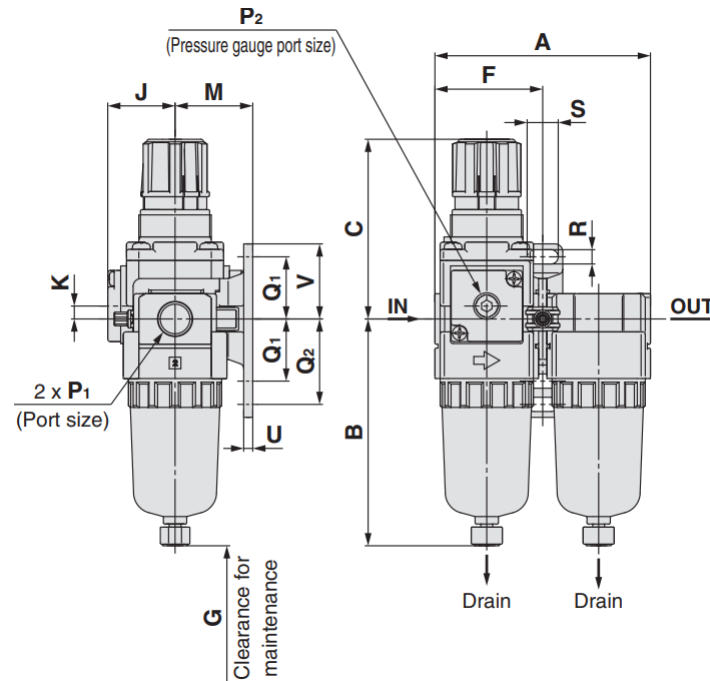


Dimension	P1	A	B	C		E	F	G	J		K	
Model	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D
AC20C	1/8, 1/4	126.4	87.6	26.5	26.5	-	41.6	45	28.5	21	2	2
AC30C	1/4, 3/8	167.4	115.4	30.7	30.5	30	55.1	70	29.4	26.5	3.5	3.5
AC40C	1/4, 3/8, 1/2	220.4	147.1	35.8	35.5	38.4	72.6	75	33.8	35.5	3.5	-
AC40C-06	3/8	235.4	149.1	35.8	35.5	38.4	77.6	75	33.8	35.5	3	-

Difference in specifications

## Dimensions

ACD-B vs. ACD-D



Dimension	P1	A	B	C		E	F	G	J		K	
	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B/AC-D	AC-B/AC-D	AC-B/AC-D	AC-B	AC-D	AC-B	AC-D
AC20D	1/8, 1/4	83.2	87.6	72.4	71.8	-	41.6	40	28.5	21	5	5
AC30D	1/4, 3/8	110.2	115.1	85.6	86.5	30	55.1	50	29.4	26.5	3.5	3.5
AC40D	1/4, 3/8, 1/2	145.2	147.1	91.7	91.5	38.4	72.6	75	33.8	35.5	1.5	-
AC40D-06	3/8	155.2	149.1	93.2	93	38.4	77.6	75	33.8	35.5	1.2	-

Difference in specifications