

# OIL-X Die-cast Aluminium Compressed Air Filters

## Engineering Data Sheet



## FILTRATION PERFORMANCE

FILTRATION GRADE	FILTER TYPE	PARTICLE REDUCTION	MAX REMAINING OIL CONTENT AT 21°C (70°F)	INITIAL DRY DIFFERENTIAL PRESSURE	INITIAL SATURATED DIFFERENTIAL PRESSURE	FILTRATION EFFICIENCY	CHANGE ELEMENT EVERY	ELEMENT SHELF LIFE	
WS	Liquid Separator	Not Applicable	Not Applicable	<125 mbar (1.8 psi) Refer to dP v Flow curve for specific model	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
AO with float drain	Coalescing Filter	Down to 1 micron, including water and oil aerosols	0.5 mg/m <sup>3</sup> 0.5 ppm(w)	<70 mbar (1 psi)	<125 mbar (1.8 psi) Refer to dP v Flow curve	99.925%	12 Months	2 years (extendable to 5 years if elements are stored in original packaging, kept out of direct sunlight in a dry environment with a stable ambient temperature)	
AO with manual drain	Dry Particulate Filter		Not Applicable						
AA with float drain	Coalescing Filter	Down to 0.01 micron, including water and oil aerosols	0.01 mg/m <sup>3</sup> 0.01 ppm(w)	<70 mbar (1 psi)	<125 mbar (1.8 psi) Refer to dP v Flow curve	99.9999%			
AA with manual drain	Dry Particulate Filter		Not Applicable						
ACS	In-line, Point of Use Oil Vapour Reduction Filter	Not Applicable	0.003 mg/m <sup>3</sup> 0.003 ppm(w)	<80 mbar (1.2 psi)	Not Applicable	Not Applicable			When odour is detected

## TECHNICAL DATA

FILTRATION GRADE	FILTER MODELS	MIN OPERATING PRESSURE		MAX OPERATING PRESSURE		MIN RECOMMENDED OPERATING TEMP		MAX RECOMMENDED OPERATING TEMP	
		BAR G	PSI G	BAR G	PSI G	°C	°F	°C	°F
WS with float drain	PX010 to 055	1.5	22	16	232	2	35	65	149
AO with float drain	PX010 to 055	1.5	22	16	232	2	35	65	149
AO with manual drain	PX010 to 055	1	15	20	290	2	35	80	176
AA with float drain	PX010 to 055	1.5	22	16	232	2	35	65	149
AA with manual drain	PX010 to 055	1	15	20	290	2	35	80	176
ACS with manual drain	PX010 to 055	1	15	20	290	2	35	50	122

**Note:** AO / AA / WS grade filters for use up to 16 bar g (232 psi g) are supplied with a float drain [F] as standard. For pressures between 16 and 20 bar g (232 and 290 psi g) a manual drain [M] must be used. ACS grade filters are supplied with a manual drain [M] as standard.

# WATER SEPARATOR FLOW RATES

MODEL		PORT SIZE	L/S	M <sup>3</sup> /MIN	M <sup>3</sup> /HR	CFM
WS	PX010A	¼	10	0.6	36	21
WS	PX010B	¾	10	0.6	36	21
WS	PX010C	½	10	0.6	36	21
WS	PX015B	¾	40	2.4	144	85
WS	PX015C	½	40	2.4	144	85
WS	PX020D	¾	40	2.4	144	85
WS	PX025D	¾	110	6.6	396	233
WS	PX025E	1	110	6.6	396	233
WS	PX030G	1 ½	110	6.6	396	233
WS	PX035G	1 ½	350	21.0	1260	742
WS	PX040H	2	350	21.0	1260	742
WS	PX045I	2 ½	350	21.0	1260	742
WS	PX050I	2 ½	800	48.0	2880	1695
WS	PX055J	3	800	48.0	2880	1695

## Product Selection & Correction Factors

To correctly select a separator model, the flow rate of the separator must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the separator.
2. Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

### CFMIP – Correction Factor Minimum Inlet Pressure (Water Separators)

Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		4.00	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68

# FILTER FLOW RATES

MODEL		PORT SIZE	L/S	M <sup>3</sup> /MIN	M <sup>3</sup> /HR	CFM	REPLACEMENT ELEMENT KIT		NO.
[GRADE]	PX010A	¼	10	0.6	36	21	P010	[Grade]	1
[GRADE]	PX010B	¾	10	0.6	36	21	P010	[Grade]	1
[GRADE]	PX010C	½	10	0.6	36	21	P010	[Grade]	1
[GRADE]	PX015B	¾	20	1.2	72	42	P015	[Grade]	1
[GRADE]	PX015C	½	20	1.2	72	42	P015	[Grade]	1
[GRADE]	PX020C	½	30	1.8	108	64	P020	[Grade]	1
[GRADE]	PX020D	¾	30	1.8	108	64	P020	[Grade]	1
[GRADE]	PX025D	¾	60	3.6	216	127	P025	[Grade]	1
[GRADE]	PX025E	1	60	3.6	216	127	P025	[Grade]	1
[GRADE]	PX030E	1	110	6.6	396	233	P030	[Grade]	1
[GRADE]	PX030G	1 ½	110	6.6	396	233	P030	[Grade]	1
[GRADE]	PX035G	1 ½	160	9.6	576	339	P035	[Grade]	1
[GRADE]	PX040H	2	220	13.2	792	466	P040	[Grade]	1
[GRADE]	PX045H	2	330	19.8	1188	699	P045	[Grade]	1
[GRADE]	PX045I	2 ½	330	19.8	1188	699	P045	[Grade]	1
[GRADE]	PX050I	2 ½	430	25.8	1548	911	P050	[Grade]	1
[GRADE]	PX055I	2 ½	620	37.3	2232	1314	P055	[Grade]	1
[GRADE]	PX055J	3	620	37.3	2232	1314	P055	[Grade]	1

## Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFMIP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

## CFMIP – Correction Factor Minimum Inlet Pressure (Coalescing and Dry Particulate Filters)

Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
Correction Factor		4.00	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68	0.64	0.62	0.61	0.59

MODEL	INITIAL SATURATED DIFFERENTIAL PRESSURE							
	GRADE WS BULK LIQUID SEPARATOR							
	100% FLOW		75% FLOW		50% FLOW		25% FLOW	
	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI
PX010A	53	0.8	29	0.4	14	0.2	4	0.1
PX010B	51	0.7	27	0.4	12	0.2	2	0.0
PX010C	48	0.7	25	0.4	10	0.1	0	0.0
PX015B	64	0.9	25	0.4	12	0.2	6	0.1
PX015C	55	0.8	22	0.3	10	0.1	4	0.1
PX020D	42	0.6	22	0.3	7	0.1	2	0.0
PX025D	98	1.4	55	0.8	23	0.3	4	0.1
PX025E	95	1.4	52	0.8	20	0.3	1	0.0
PX030G	82	1.2	30	0.4	13	0.2	4	0.1
PX035G	57	0.8	24	0.3	5	0.1	5	0.1
PX040H	52	0.8	19	0.3	0	0.0	0	0.0
PX045I	55	0.8	22	0.3	3	0.0	1	0.0
PX050I	116	1.7	57	0.8	16	0.2	5	0.1
PX055J	111	1.6	52	0.8	11	0.2	0	0.0

MODEL	INITIAL SATURATED DIFFERENTIAL PRESSURE															
	GRADE AO COALESCING FILTER								GRADE AA COALESCING FILTER							
	100% FLOW		75% FLOW		50% FLOW		25% FLOW		100% FLOW		75% FLOW		50% FLOW		25% FLOW	
	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI
PX010A	123	1.8	84	1.2	53	0.8	27	0.4	117	1.7	83	1.2	50	0.7	25	0.4
PX010B	124	1.8	85	1.2	55	0.8	30	0.4	121	1.8	85	1.2	52	0.8	27	0.4
PX010C	121	1.8	82	1.2	44	0.6	15	0.2	111	1.6	75	1.1	41	0.6	20	0.3
PX015B	122	1.8	84	1.2	46	0.7	20	0.3	115	1.7	79	1.1	44	0.6	24	0.3
PX015C	91	1.3	53	0.8	31	0.4	13	0.2	80	1.2	51	0.7	27	0.4	12	0.2
PX020C	124	1.8	82	1.2	45	0.7	20	0.3	122	1.8	80	1.2	41	0.6	18	0.3
PX020D	113	1.6	72	1.0	34	0.5	10	0.1	100	1.5	60	0.9	37	0.5	24	0.3
PX025D	125	1.8	80	1.2	43	0.6	21	0.3	86	1.2	57	0.8	33	0.5	10	0.1
PX025E	80	1.2	50	0.7	27	0.4	11	0.2	66	1.0	45	0.7	25	0.4	10	0.1
PX030E	125	1.8	80	1.2	42	0.6	30	0.4	122	1.8	82	1.2	42	0.6	11	0.2
PX030G	90	1.3	49	0.7	27	0.4	9	0.1	104	1.5	55	0.8	30	0.4	10	0.1
PX035G	81	1.2	44	0.6	18	0.3	5	0.1	75	1.1	45	0.7	20	0.3	5	0.1
PX040H	113	1.6	69	1.0	40	0.6	20	0.3	90	1.3	60	0.9	40	0.6	20	0.3
PX045H	123	1.8	81	1.2	44	0.6	21	0.3	108	1.6	71	1.0	35	0.5	12	0.2
PX045I	95	1.4	64	0.9	35	0.5	15	0.2	108	1.6	70	1.0	32	0.5	15	0.2
PX050I	116	1.7	75	1.1	42	0.6	17	0.2	90	1.3	66	1.0	43	0.6	18	0.3
PX055I	123	1.8	81	1.2	45	0.7	24	0.3	119	1.7	78	1.1	44	0.6	21	0.3
PX055J	112	1.6	55	0.8	32	0.5	17	0.2	104	1.5	52	0.8	25	0.4	17	0.2

MODEL	INITIAL DRY DIFFERENTIAL PRESSURE															
	GRADE AO DRY PARTICULATE FILTER								GRADE AA DRY PARTICULATE FILTER							
	100% FLOW		75% FLOW		50% FLOW		25% FLOW		100% FLOW		75% FLOW		50% FLOW		25% FLOW	
	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI	MBAR	PSI
PX010A	61	0.9	40	0.6	20	0.3	9	0.1	64	0.9	36	0.5	21	0.3	10	0.1
PX010B	63	0.9	43	0.6	22	0.3	11	0.2	65	0.9	38	0.6	22	0.3	11	0.2
PX010C	58	0.8	35	0.5	20	0.3	11	0.2	63	0.9	39	0.6	20	0.3	10	0.1
PX015B	60	0.9	38	0.6	23	0.3	12	0.2	66	1.0	41	0.6	21	0.3	12	0.2
PX015C	27	0.4	15	0.2	10	0.1	5	0.1	22	0.3	51	0.7	27	0.4	11	0.2
PX020C	58	0.8	35	0.5	15	0.2	8	0.1	64	0.9	41	0.6	18	0.3	8	0.1
PX020D	38	0.6	20	0.3	10	0.1	5	0.1	42	0.6	22	0.3	10	0.1	5	0.1
PX025D	54	0.8	39	0.6	21	0.3	8	0.1	27	0.4	19	0.3	10	0.1	4	0.1
PX025E	22	0.3	15	0.2	9	0.1	5	0.1	29	0.4	19	0.3	10	0.1	5	0.1
PX030E	56	0.8	38	0.6	20	0.3	7	0.1	62	0.9	49	0.7	25	0.4	8	0.1
PX030G	42	0.6	26	0.4	12	0.2	6	0.1	45	0.7	27	0.4	13	0.2	5	0.1
PX035G	19	0.3	9	0.1	5	0.1	2	0.0	22	0.3	10	0.1	5	0.1	2	0.0
PX040H	31	0.4	19	0.3	16	0.2	7	0.1	36	0.5	24	0.3	15	0.2	8	0.1
PX045H	51	0.7	36	0.5	18	0.3	8	0.1	47	0.7	25	0.4	18	0.3	15	0.2
PX045I	40	0.6	27	0.4	12	0.2	6	0.1	47	0.7	30	0.4	17	0.2	8	0.1
PX050I	36	0.5	23	0.3	16	0.2	7	0.1	40	0.6	27	0.4	16	0.2	8	0.1
PX055I	38	0.6	25	0.4	17	0.2	10	0.1	45	0.7	27	0.4	17	0.2	10	0.1
PX055J	51	0.7	32	0.5	17	0.2	8	0.1	54	0.8	35	0.5	17	0.2	9	0.1

# OIL-X WS AND FILTERS - VESSEL INTERNAL VOLUMES

MODEL	PORT SIZE	INTERNAL VOLUME (LITRES)	MODEL	PORT SIZE	INTERNAL VOLUME (LITRES)	
WS	PX010A	¼	[GRADE]	PX010A	¼	2.65
WS	PX010B	¾	[GRADE]	PX010B	¾	2.65
WS	PX010C	½	[GRADE]	PX010C	½	2.65
WS	PX015B	¾	[GRADE]	PX015B	¾	-
WS	PX015C	½	[GRADE]	PX015C	½	0.620
			[GRADE]	PX020C	½	0.620
WS	PX020D	¾	[GRADE]	PX020D	¾	0.620
WS	PX025D	¾	[GRADE]	PX025D	¾	1.548
WS	PX025E	1	[GRADE]	PX025E	1	1.548
			[GRADE]	PX030E	1	-
WS	PX030G	1 ½	[GRADE]	PX030G	1 ½	1.857
WS	PX035G	1 ½	[GRADE]	PX035G	1 ½	4.4
WS	PX040H	2	[GRADE]	PX040H	2	5.35
			[GRADE]	PX045H	2	-
WS	PX045I	2 ½	[GRADE]	PX045I	2 ½	5.35
WS	PX050I	2 ½	[GRADE]	PX050I	2 ½	11.0
			[GRADE]	PX055I	2 ½	14.0
WS	PX055J	3	[GRADE]	PX055J	3	14.0

## MATERIALS OF CONSTRUCTION

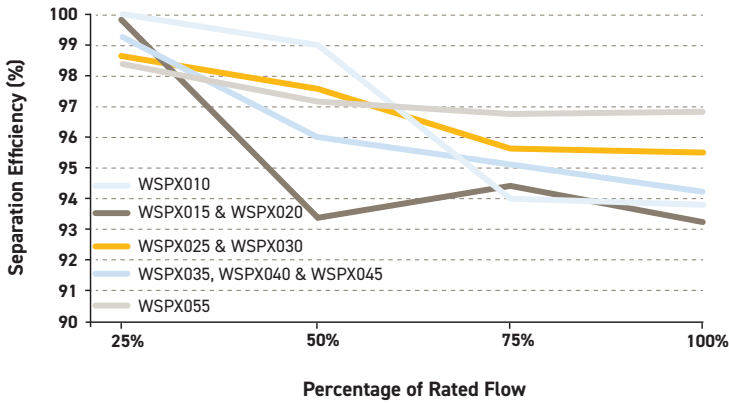
FILTRATION GRADE	HOUSING	ELEMENT / INTERNALS	CORROSION PROTECTION
WS	Pressure Housing - Diecast Aluminium Sealing - High Nitrile	Separator Module - Glass Filled Nylon	Alochrom Treatment & Dry Powder Epoxy Paint (Internal and External)
AO	Pressure Housing - Diecast Aluminium Sealing - High Nitrile	Glass Filled Nylon Stainless Steel Borosilicate Nonafibre Polyester Epoxy High Nitrile	Alochrom Treatment & Dry Powder Epoxy Paint (Internal and External)
AA	Pressure Housing - Diecast Aluminium Sealing - High Nitrile	Glass Filled Nylon Stainless Steel Borosilicate Nonafibre Polyester Epoxy High Nitrile	Alochrom Treatment & Dry Powder Epoxy Paint (Internal and External)
ACS	Pressure Housing - Diecast Aluminium Sealing - High Nitrile	Glass Filled Nylon Stainless Steel Activated Carbon Cloth Polyester Epoxy High Nitrile	Alochrom Treatment & Dry Powder Epoxy Paint (Internal and External)

## QUALITY ASSURANCE / IP RATING / PRESSURE VESSEL APPROVALS

Development / Manufacture	ISO 9001 / ISO 14001
Ingress Protection Rating	Not Applicable
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	Approval to ASME VIII Div. 1 not required
AUS	Approval to AS1210 not required
RUSSIA	TR (formerly GOST-R)
For use with Compressed Air, N <sub>2</sub> & CO <sub>2</sub>	

# OIL-X Grades WS Liquid Separation Efficiency

**OIL-X Grade WS Water Separator**  
Liquid Separation Efficiency (25% - 100% Rated Flow)

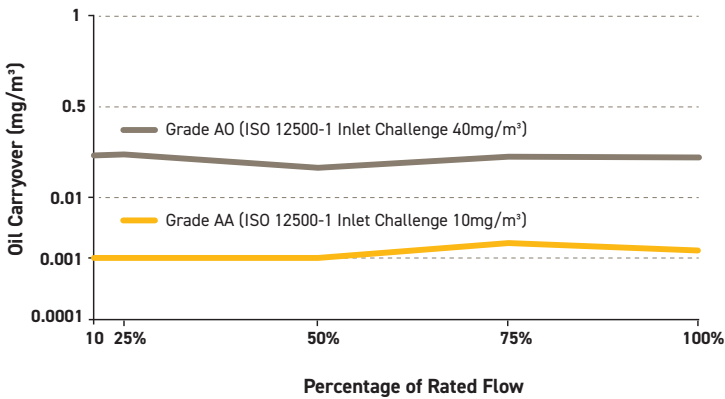


## Liquid Separators Tested in Accordance with:

FILTRATION GRADE	WS with float drain
Filter Type	Liquid Separator
Test Methods Used	ISO 8573-9:2004 ISO 12500-4:2009
ISO12500-4 Inlet Challenge Concentration	40 mg of oil aerosol per cubic metre of compressed air

# OIL-X Grades AO & AA Oil Carryover

**OIL-X Grade AO & AA Coalescing Filters**  
Oil Aerosol Carryover (10% - 100% Rated Flow)

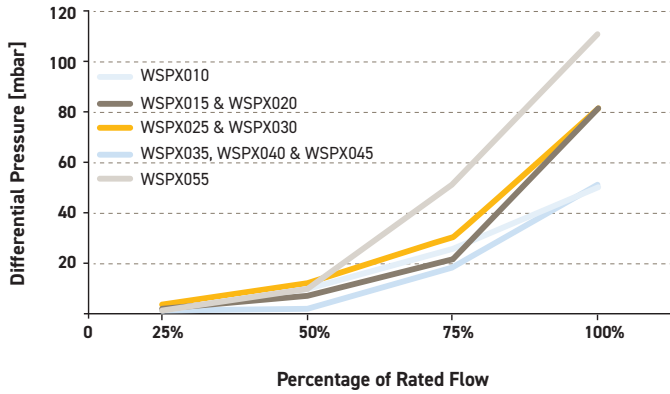


## Filtration Tested in Accordance with:

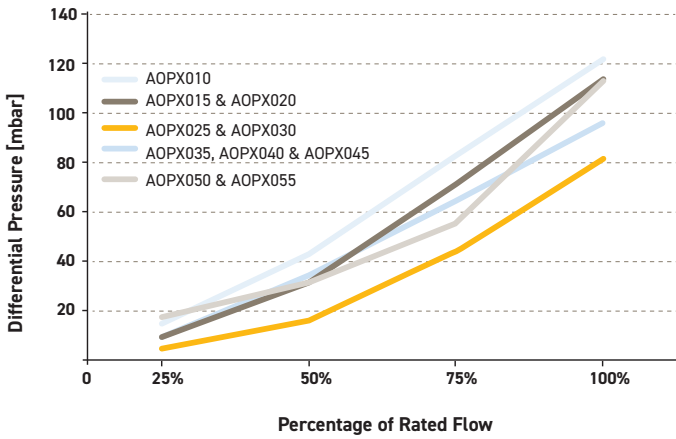
FILTRATION GRADE	AO with float drain	AA with float drain
Filter Type	Coalescing	Coalescing
Test Methods Used	ISO 8573-2:2018 ISO 8573-4:2019 ISO 12500-1:2007	ISO 8573-2:2018 ISO 8573-4:2019 ISO 12500-1:2007
ISO12500-1 Inlet Challenge Concentration	40 mg of oil aerosol per cubic metre of compressed air	10 mg of oil aerosol per cubic metre of compressed air

# OIL-X Grades WS, AO & AA - Differential Pressure Curves

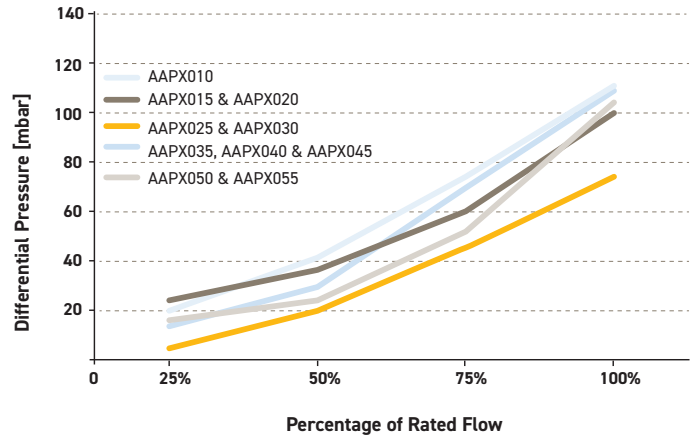
**OIL-X Grade WS Water Separator**  
Differential Pressure (25% - 100% Rated Flow)



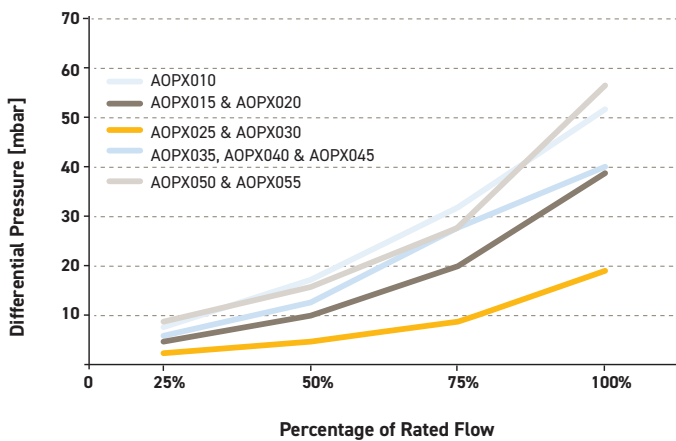
**OIL-X Grade AO Coalescing Filter**  
Initial Saturated Differential Pressure (25% - 100% Rated Flow)  
ISO12500-1 Challenge - 40mg/m<sup>3</sup>



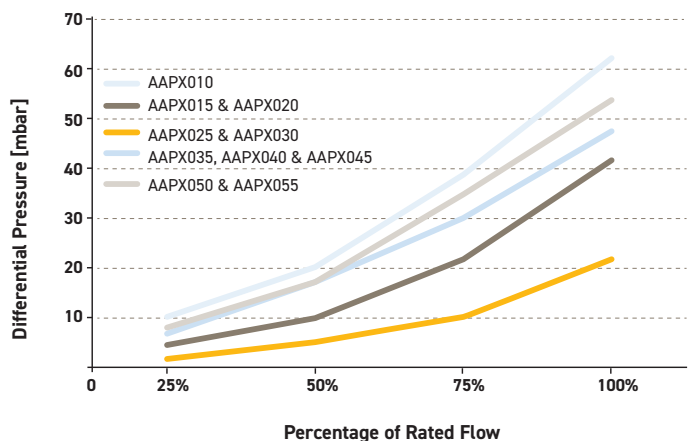
**OIL-X Grade AA Coalescing Filter**  
Initial Saturated Differential Pressure (25% - 100% Rated Flow)  
ISO12500-1 Challenge - 10mg/m<sup>3</sup>



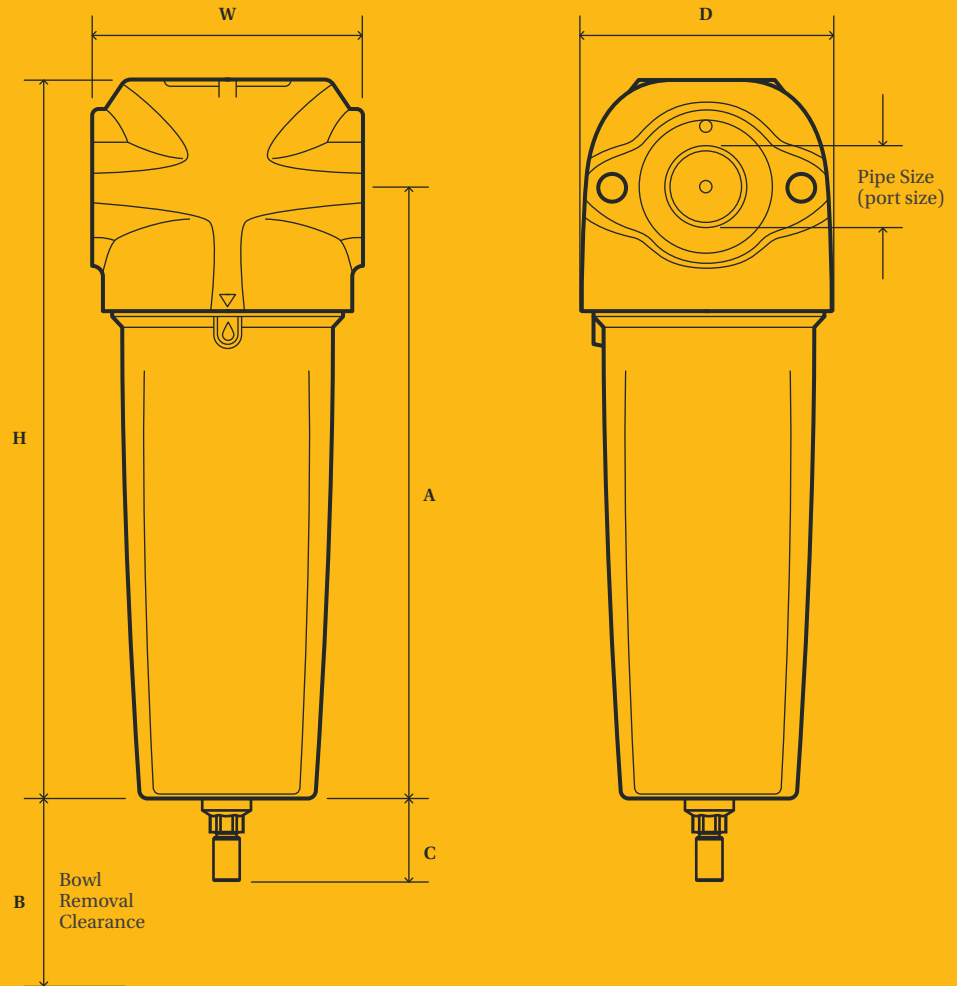
**OIL-X Grade AO Dry Particulate Filter**  
Initial Dry Differential Pressure (25% - 100% Rated Flow)



**OIL-X Grade AA Dry Particulate Filter**  
Initial Dry Differential Pressure (25% - 100% Rated Flow)



# WATER SEPARATOR WEIGHTS AND DIMENSIONS



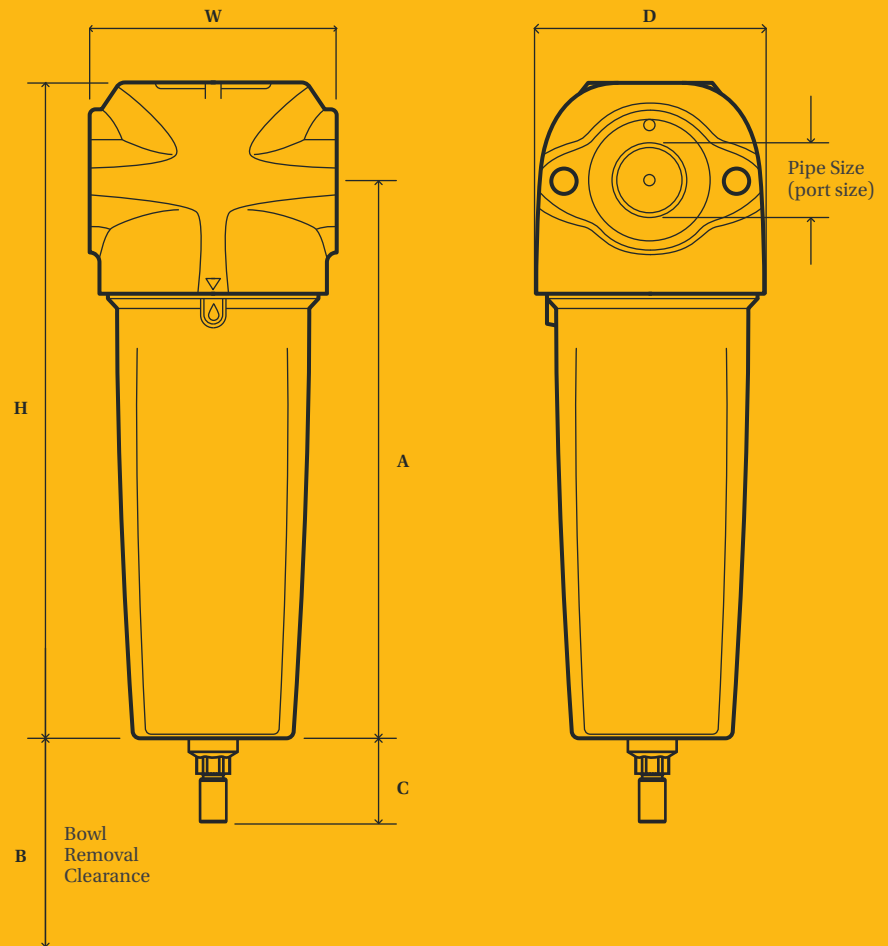
## WATER SEPARATOR WEIGHTS AND DIMENSIONS

MODEL	PIPE SIZE	HEIGHT (H)		WIDTH (W)		DEPTH (D)		(A)		(B)		(C)		WEIGHT	
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	KG	LBS
WSPX010A	1/4	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
WSPX010B	3/8	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
WSPX010C	1/2	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
WSPX015B	3/8	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
WSPX015C	1/2	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
WSPX020D	3/4	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
WSPX025D	3/4	277	10.91	120	4.72	115	4.53	232	9.13	70	2.76	30	1.18	2.66	5.86
WSPX025E	1	277	10.91	120	4.72	115	4.53	232	9.13	70	2.76	30	1.18	2.66	5.86
WSPX030G	1 1/2	277	10.91	120	4.72	115	4.53	232	9.13	70	2.76	30	1.18	2.66	5.86
WSPX035G	1 1/2	440	17.32	164	6.46	157	6.18	383	15.07	100	3.94	30	1.18	6.87	15.14
WSPX040H	2	440	17.32	164	6.46	157	6.18	383	15.07	100	3.94	30	1.18	6.87	15.14
WSPX045I	2 1/2	440	17.32	164	6.46	157	6.18	383	15.07	100	3.94	30	1.18	6.87	15.14
WSPX050I	2 1/2	514.5	20.26	192	7.56	183	7.20	542	21.33	120	4.72	32	1.25	8.47	18.66
WSPX055J	3	514.5	20.26	192	7.56	183	7.20	542	21.33	120	4.72	32	1.25	8.47	18.66

**Note:** Use dimension H + C for the total height.



# FILTER WEIGHTS AND DIMENSIONS



## FILTER WEIGHTS AND DIMENSIONS

MODEL	PIPE SIZE	HEIGHT (H)		WIDTH (W)		DEPTH (D)		(A)		(B)		(C)		WEIGHT	
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	KG	LBS
PX010A	1/4	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
PX010B	3/8	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
PX010C	1/2	180	7.09	76	2.99	65	2.56	154	6.06	50	1.97	30	1.18	0.81	1.78
PX015B	3/8	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
PX015C	1/2	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
P020C	1/2	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
P020D	3/4	238	9.37	89	3.5	84	3.31	202	7.95	50	1.97	30	1.18	1.41	3.10
P025D	3/4	277	10.91	120	4.72	115	4.53	232	9.13	70	2.76	30	1.18	2.66	5.86
P025E	1	277	10.91	120	4.72	115	4.53	232	9.13	70	2.76	30	1.18	2.66	5.86
P030E	1	367	14.45	120	4.72	115	4.53	322	12.68	70	2.76	30	1.18	3.01	6.63
P030G	1 1/2	367	14.45	120	4.72	115	4.53	322	12.68	70	2.76	30	1.18	3.01	6.63
P035G	1 1/2	440	17.32	164	6.46	157	6.18	383	15.07	100	3.94	30	1.18	6.87	15.14
P040H	2	532	20.94	164	6.46	157	6.18	475	18.7	100	3.94	30	1.18	7.18	15.82
P045H	2	532	20.94	164	6.46	157	6.18	475	18.7	100	3.94	30	1.18	7.18	15.82
P045I	2 1/2	532	20.94	164	6.46	157	6.18	475	18.7	100	3.94	30	1.18	7.18	15.82
P050I	2 1/2	654	25.75	192	7.56	183	7.20	582	22.91	120	4.72	32	1.25	10.18	22.43
P055I	2 1/2	844	33.23	192	7.56	183	7.20	772	30.39	120	4.72	32	1.25	15.78	34.78
P055J	3	844	33.23	192	7.56	183	7.20	772	30.39	120	4.72	32	1.25	15.78	34.78

# PARKER WORLDWIDE

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**AE – UAE, Dubai**  
Tel: +971 4 8127100  
parker.me@parker.com

**AR – ARGENTINA, Buenos Aires**  
Tel: +54 3327 44 4129

**AT – AUSTRIA, Wiener Neustadt**  
Tel: +43 (0)2622 23501-0  
parker.austria@parker.com

**AT – EASTERN EUROPE, Wiener Neustadt**  
Tel: +43 (0)2622 23501 900  
parker.easteurope@parker.com

**AU – AUSTRALIA, Castle Hill**  
Tel: +61 (0)2-9634 7777

**AZ – AZERBAIJAN, Baku**  
Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/LU – BELGIUM, Nivelles**  
Tel: +32 (0)67 280 900  
parker.belgium@parker.com

**BR – BRAZIL, Cachoeirinha RS**  
Tel: +55 51 3470 9144

**BY – BELARUS, MINSK**  
Tel: +375 17 209 9399  
parker.belarus@parker.com

**CA – CANADA, Milton, Ontario**  
Tel: +1 905 693 3000

**CH – SWITZERLAND, Etoy**  
Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CL – CHILE, Santiago**  
Tel: +56 2 623 1216

**CN – CHINA, Shanghai**  
Tel: +86 21 2899 5000

**CZ – CZECH REPUBLIC, Klecany**  
Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – GERMANY, Kaarst**  
Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – DENMARK, Ballerup**  
Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – SPAIN, Madrid**  
Tel: +34 902 330 001  
parker.spain@parker.com

**FI – FINLAND, Vantaa**  
Tel: +358 (0)20 753 2500  
parker.fi nland@parker.com

**FR – FRANCE, Contamine s/Arve**  
Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – GREECE, Athens**  
Tel: +30 210 933 6450  
parker.greece@parker.com

**HK – Hong Kong**  
Tel: +852 2428 8008

**HU – HUNGARY, Budapest**  
Tel: +36 1 220 4155  
parker.hungary@parker.com

**IE – IRELAND, Dublin**  
Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IN – INDIA, Mumbai**  
Tel: +91 22 6513 7081-85

**IT – ITALY, Corsico (MI)**  
Tel: +39 02 45 19 21  
parker.italy@parker.com

**JP – JAPAN, Tokyo**  
Tel: +81 (0)3 6408 3901

**KR – SOUTH KOREA, Seoul**  
Tel: +82 2 559 0400

**KZ – KAZAKHSTAN, Almaty**  
Tel: +7 7272 505 800  
parker.easteurope@parker.com

**LV – LATVIA, Riga**  
Tel: +371 6 745 2601  
parker.latvia@parker.com

**MX – MEXICO, Apodaca**  
Tel: +52 81 8156 6000

**MY – MALAYSIA, Shah Alam**  
Tel: +60 3 7849 0800

**NL – The Netherlands, Oldenzaal**  
Tel: +31 (0)541 585 000  
parker.nl@parker.com

**NO – NORWAY, Asker**  
Tel: +47 66 75 34 00  
parker.norway@parker.com

**NZ – NEW ZEALAND, Mt Wellington**  
Tel: +64 9 574 1744

**PL – POLAND, Warsaw**  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**PT – PORTUGAL, Leca da Palmeira**  
Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – ROMANIA, Bucharest**  
Tel: +40 21 252 1382  
parker.romania@parker.com

**RU – RUSSIA, Moscow**  
Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – SWEDEN, Spånga**  
Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

**SG – Singapore**  
Tel: +65 6887 6300

**SK – SLOVAKIA, Banská Bystrica**  
Tel: +421 484 162 252  
parker.slovakia@parker.com

**SL – SLOVENIA, Novo Mesto**  
Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TH – THAILAND, Bangkok**  
Tel: +662 717 8140

**TR – TURKEY, Istanbul**  
Tel: +90 216 4997081  
parker.turkey@parker.com

**TW – TAIWAN, Taipei**  
Tel: +886 2 2298 8987

**UA – UKRAINE, Kiev**  
Tel +380 44 494 2731  
parker.ukraine@parker.com

**UK – UNITED KINGDOM, Warwick**  
Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**US – USA, Cleveland**  
Tel: +1 216 896 3000

**VE – VENEZUELA, Caracas**  
Tel: +58 212 238 5422

**ZA – SOUTH AFRICA, Kempton Park**  
Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## European Product Information Centre

Free phone: 00 800 27 27 5374  
(from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PT, SE, SK, UK)