

# **AIR/OIL EXCHANGER**

pressure operated for type AD valves

#### **FEATURES**

- The EN air/oil exchanger, specially designed for type AD differential action valves, ensures smooth and regular movement of the valve plunger to avoid waterhammer effect in certain applications
- It can be supplied pre-installed on a valve or separately for fitting on-site to any valve in service

#### **OPERATION**

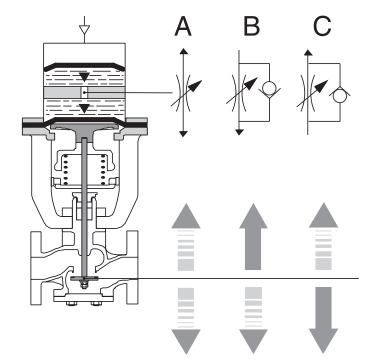
Compressed air enters via the central boss in the upper dome. The resulting force is transmitted to the plunger of the valve by the flow of oil at a controlled rate through a needle valve, ensuring smooth action.

Mode "A"

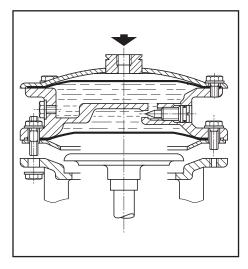
Depending on the function required, three operating modes are available: Bi-directional with damping in both directions. The descent time must not exceed 20 seconds. Uni-directional, downward movement damped.

Mode "B" Mode "C" The letter indicates the mode.

Uni-directional, upward movement damped.







# GENERAL

control fluid (*)	temperature range	diaphragms (*)		
air, filtered	+5°C to +50°C	PA-reinforced synthetic rubber		
Max. pilot pressure Recommended oil Ambient temperature range Maximum viscosity	10 bar [1 bar =100 kPa] Non-detergent, without aggressive additives -5°C to +50°C 20 to 50 cSt (mm²/s) at 50°C			
CONSTRUCTION Pilot connection	G 1/4			
MATERIALS IN CONTACT WITH FLUID         (*) Ensure that the compatibility of the fluids in contact with the materials is verified         Body       Cast iron         Domes (upper/lower)       Cast iron         Diaphragms (*)       PA-reinforced synthetic rubber         (*) The upper diaphragm is designed to prevent the risk of emulsion formation by separating the oil from control air.				

All leaflets are available on: www.asco.com Pressure Operated Valves (2/2) - 81

218 (type EN)

Series



# SPECIFICATIONS

DN	01/05/070		catalogue number			
valves PN16-PN25	average capacity	yoke	mode	air/oil exchanger installed	air/oil exchanger	reference
FINTO-FIN25	(liters)	]		on valve (2)	sold separately	aratery
<b>1F</b> (1) - <b>00</b> (1)	(1) 00 (1)		A	335505	21800005	
15 <sup>(1)</sup> · 20 <sup>(1)</sup> 25 - 32 0,215	NB	В	335506	21800006	ENB	
			С	335507	21800007	]
		A	335508	21800008		
40 - 50	0,500	NC	В	335509	21800009	ENC
			С	335510	21800010	
65 - 80	1,250	ND	A	335511	21800011	END
			В	335512	21800012	
			С	335513	21800013	

Yoke offset on 15 and 20 dia. PN16 and PN25 valves.
 Number to be added to the catalogue number of the valve, see "ordering examples".

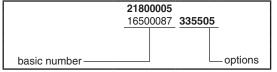
# **OPTIONS AND ACCESSORIES**

Ambient temperature -20°C

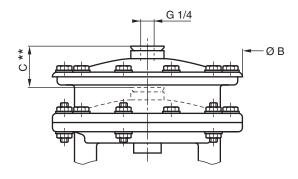
#### INSTALLATION

- Installed on type AD valves in vertical position
- · Do not pressurise the air/oil exchanger before installation is completed
- · Adjustment screw and drain screw incorporated in the air/oil exchanger body
- The air/oil exchanger is filled with oil, even when supplied as a separate part
- Pipe connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

#### ORDERING EXAMPLES:



### DIMENSIONS (mm), WEIGHT (kg)



reference	ØВ	C**	weight			
ENB	156	47	2,4			
ENC	200	52	3,6			
END	250	76	7,6			

\*\*Additional dimension to be added to dimension C of a standard valve.
Note: The air/oil exchanger cannot be fitted with a manual

Note: The air/oil exchanger cannot be fitted with a manua operator.