

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

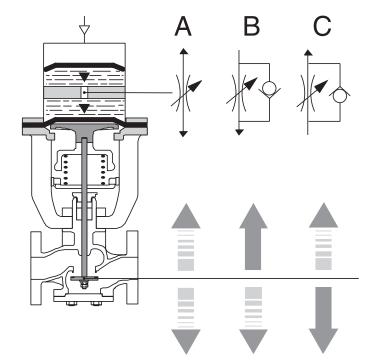
Compressed air enters via the central boss in the upper dome. The resulting force is transmitted to the plunger of the valve by the flow of oil at a controlled rate through a needle valve, ensuring smooth action.

Mode "A"

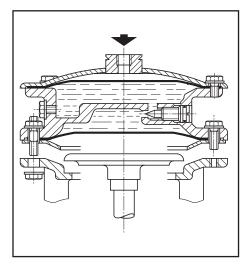
Depending on the function required, three operating modes are available: Bi-directional with damping in both directions. The descent time must not exceed 20 seconds. Uni-directional, downward movement damped.

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
1F (1) - 00 (1)	(1) 00 (1)		A	335505	21800005	
15 ⁽¹⁾ · 20 ⁽¹⁾ 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".

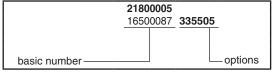
OPTIONS AND ACCESSORIES

Ambient temperature -20°C

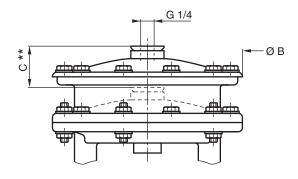
INSTALLATION

- 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.