

Oleodinamica Marchesini V0303 VBCD 3/8 SE FL PB single counterbalance valve

Manufacturer: Oleodinamica Marchesini
Manufacturer part number / published order designation: V0303
Published model: V0303

About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

Execution notes and conditions

Current manufacturer standard-setting reference is not a confirmed delivered calibration.

V0303manufacturer350bar versus supplier330bar kept source-qualified; no unqualified maximum pressure assigned.

Original factory drawing retained.

Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Oleodinamica Marchesini VBCD SE FL PB technical datasheet

Original pages	Compiled pages	Relevant content
1	2	Exact factory article, circuit, pilot ratio, pressure/flow rating, mounting and source-specific limitations

VALVOLA DI BLOCCO E CONTROLLO DISCESA A SEMPLICE
EFFETTO A FLANGIA PARZIALMENTE BILANCIATA
SINGLE OVERCENTRE VALVE FLANGEABLE, PARTIALLY
BALANCED

NEW



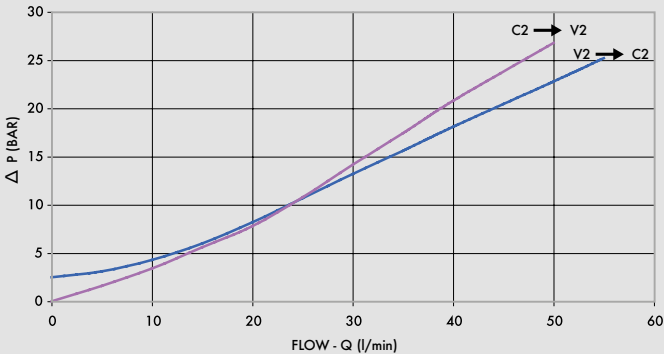
IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Gli attacchi a flangia consentono il montaggio diretto della valvola sull'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilemento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

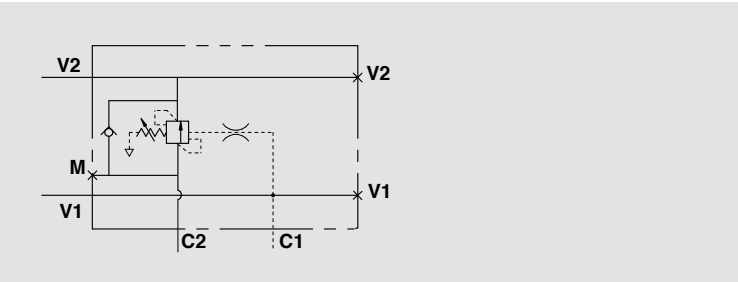
MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore con flusso libero e flangiare C2 al lato dell'attuatore dove si desidera la tenuta. Gli attacchi V1 e V2 sono reversibili.

A RICHIESTA
• pressione di taratura diversa da quella standard.
• piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

PERDITE DI CARICO
PRESSURE DROP CURVE



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Flange ports enable direct mounting of the valve onto the actuator.

MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and flange C2 to the actuator side you want the flow to be blocked. V1 and V2 ports are reversible.

ON REQUEST
• non standard pressure settings
• sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

Temperatura olio: 50 °C - Viscosità olio: 30 cSt
Oil temperature: 50 ° C - Oil viscosity: 30 cSt

CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar										
V0303	VBCD 3/8" SE FL PB	1:4.25	50	350										
					<p>Sede OR 3043 O-Ring 3043</p> <p>Ø8,5</p> <p>V2</p> <p>V1</p> <p>C2</p> <p>C1</p> <p>V2</p> <p>V1</p> <p>M</p> <p>L4</p> <p>L2</p> <p>L</p> <p>L1</p> <p>L3</p> <p>S</p> <p>H</p>									
CODICE CODE	SIGLA TYPE	V1 - V2 GAS	M	C2 - C1 mm	L mm	L1 mm	L2 mm	L3 mm	L4 mm	H mm	S mm	PESO WEIGHT kg		
V0303	VBCD 3/8" SE FL PB	G 3/8"	G 1/4"	DIA 9	108	171,2	71,5	30	36	55	30	1,4		

