

Oleodinamica Marchesini V0412/RP18 single Type A counterbalance valve

Manufacturer: Oleodinamica Marchesini
Manufacturer part number / published order designation: V0412/RP18
Published model: V0412/RP18

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

V0412/RP18 is a supplier order designation. The preserved manufacturer sheet confirms base V0412 and Type A family only; its 1:4.5 rows do not certify RP18 pilot ratio, pressure, flow, calibration, mass or geometry. Supplier-stated 1:8 is not factory verified.

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.

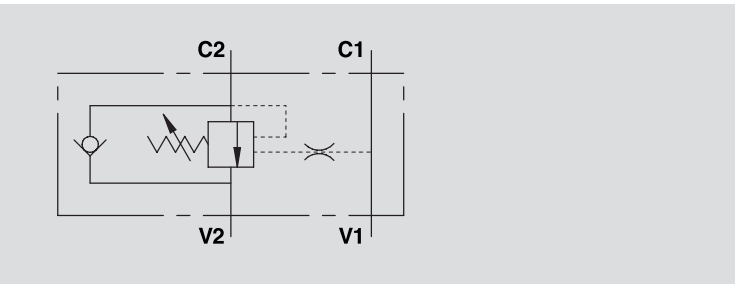
Source A: Base-family reference only; visible full base row remains 1:4.5; no RP18 rating or drawing certification.

Original pages	Compiled pages	Relevant content
1	2	Base-family reference only; visible full base row remains 1:4.5; no RP18 rating or drawing certification.

VALVOLE DI BLOCCO E CONTROLLO DISCESA
A SEMPLICE EFFETTO - TIPO A
SINGLE OVERCENTRE VALVES - TYPE A



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



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. Il tipo "A" si differenzia dal tipo "non A" per la posizione degli attacchi e per il rapporto di pilotaggio.

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 di flusso libero e C2 al lato dell'attuatore dove si desidera la tenuta. Il montaggio è in linea.

A RICHIESTA
• pressione di taratura diversa da quella standard.
• piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).
PERDITE DI CARICO
PRESSURE DROP CURVE

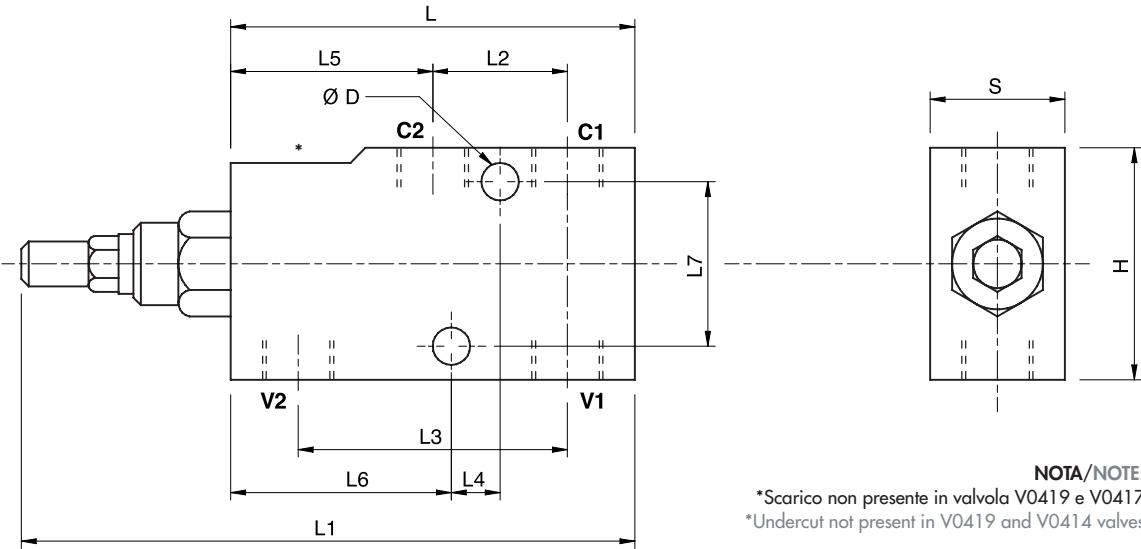
USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Type "A" is different due to the connection positions and the pilot ratio.

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 C2 to the actuator's side you want the flow to be blocked. In-line mounting.

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
V0382	VBCD 1/4" SE A	1:4,5	25	350
V0392	VBCD 3/8" SE A	1:4,5	40	350
V0412	VBCD 1/2" SE A	1:4,5	60	350
V0419	VBCD 3/4" SE A	1:5,5	100	350
V0417	VBCD 1" SE A	1:5,5	150	350



CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2	D	L	L1	L2	L3	L4	L5	L6	L7	H	S	PESO WEIGHT kg
V0382	VBCD 1/4" SE A	G 1/4"	6,5	76	132	25	49	10	39	41,5	28	55	30	0,970
V0392	VBCD 3/8" SE A	G 3/8"	8,5	100	148,5	30	60	10	50	55	44	60	30	1,256
V0412	VBCD 1/2" SE A	G 1/2"	8,5	100	149	36	65	10	50	57,5	44	60	30	1,196
V0419	VBCD 3/4" SE A	G 3/4"	8,5	127	184	46	85	10	62,5	75	44	80	35	2,372
V0417	VBCD 1" SE A	G 1"	10,5	156	213	70	109,5	23	63	75	70	90	50	4,635

