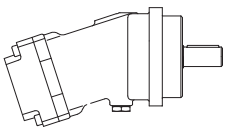
DANA BREVINI®

Motion Systems

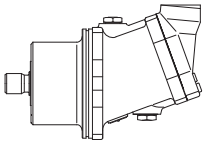
VALVOLE

VALVES

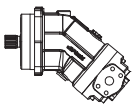
H1C

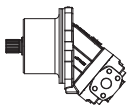


H1CR

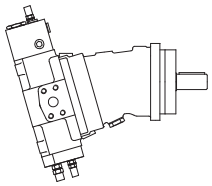


SH11C SH11CR

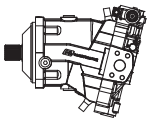


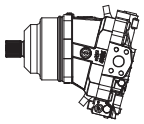


H2V

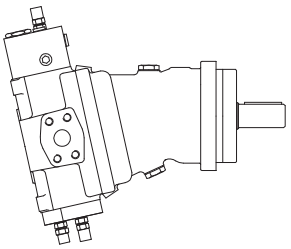


SH7V SH7VR

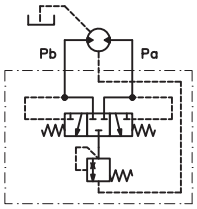




H1V



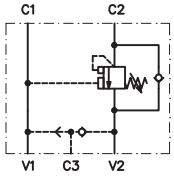
Valvole di scambio
Flushing valves



VSC

VSC20L

Valvole di controllo discesa
Overcentre valves

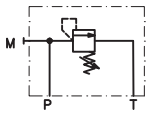


VCD/M

VCD/1

VCD/2

Valvole antiurto
Anti-Shock valves

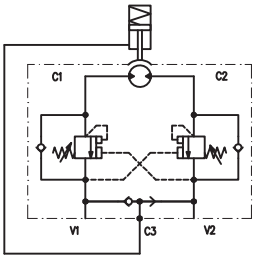


VSD 120

Valvole unidirezionali
Check valves

VU165

Valvole controllo rotazione e traslazione
Overcentre valves



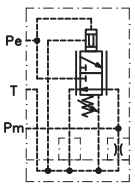
VCR1 D/AF

VCR2 D/AF

VCR3

VCR4

Valvole di sequenza
Sequence valves

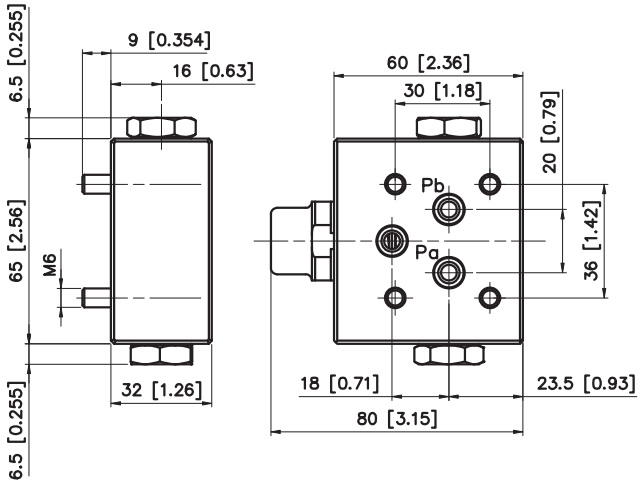


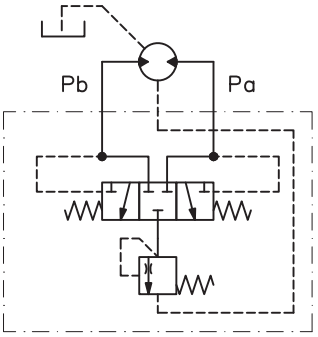
VSI

DANA BREVINI Motion Systems

Le valvole di scambio VSC permettono il raffreddamento dell'olio, di solito necessario quando si è in presenza di elevate velocità di esercizio ed elevate potenze. La valvola si compone di un distributore a tre posizioni e tre vie che preleva olio dalla linea a bassa pressione del circuito e lo invia alla carcassa del motore mediante passaggi interni, quindi senza la necessità di tubazioni esterne (solo nei motori H2V 226 è necessario prevedere un tubo esterno) e da qui al serbatoio. Per un corretto funzionamento è necessario collegare il drenaggio del motore al serbatoio.

The VSC flushing valve allows an oil cooling action, which is recommended when operating at high speed and power. The unit is made by a three positions - three way spool valve that allows a small oil flow from the low pressure line of the circuit into the motor casing without external piping (only H2V 226 still need an external line), then into the tank. For a correct operation it is necessary to connect the drain port of the motor with the tank.





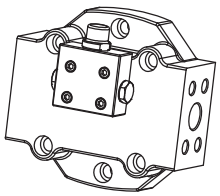
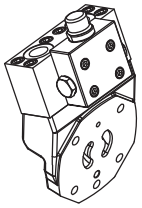
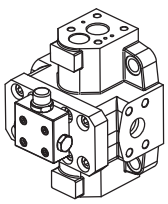
La valvola di scambio può essere fornita nelle seguenti versioni:

The shuttle valve can be fitted in the following versions:

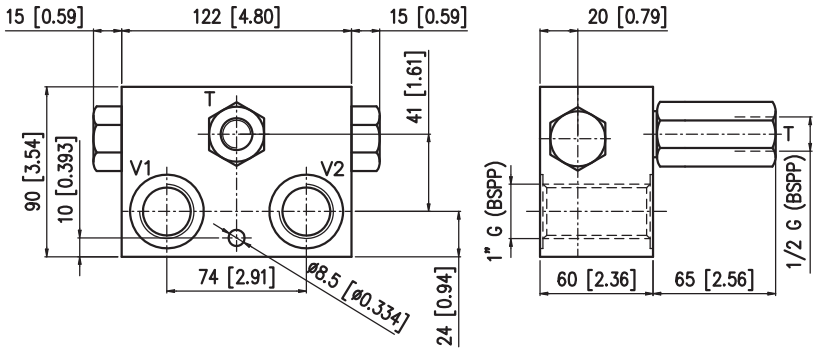
Codice Code	*Descrizione* Description	*Portata Teorica (22 bar)* Theoretical flow [319 psi]	*Diametro strozzatore* Orifice Diameter
52152000000	*VALVOLA VSC 06F* VSC 06F VALVE	6 l/min [1.5 U.S. gpm]	1.5 mm [0.05 in]
52152100000	VALVOLA VSC 09F VSC 09F VALVE	10.5 l/min [2.7 U.S. gpm]	2 mm [0.07 in]
52152200000	*VALVOLA VSC 15F* VSC 15F VALVE	15 l/min [3.9 U.S. gpm]	2.5 mm [0.09 in]
52152300000	VALVOLA VSC 21F VSC 21F VALVE	20 l/min [5.2 U.S. gpm]	3.3 mm [0.12 in]

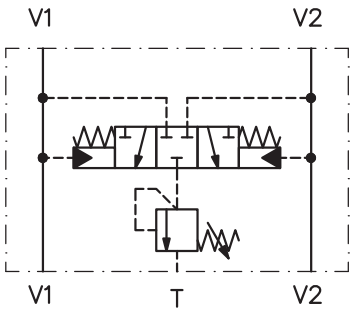
Le valvole possono essere montate sulle seguenti unità:

The valves can be flanged on the following motors:

MOTORI H1C/H1CR/SH11C/SH11CR (COPERCHIO LM2) MOTORS H1C/H1CR/SH11C/SH11CR (LM2 COVER)	
MOTORI H1C/H1CR/SH11C/SH11CR (COPERCHIO VM2) MOTORS H1C/H1CR/SH11C/SH11CR (VM2 COVER)	
MOTORI H2V/SH7V 075/SH7VR 075 MOTORS H2V/SH7V 075/SH7VR 075	

VSC20L





VSC20L - Valvole di scambio con portata ˜ 20 l/min a 21 bar (in linea).
VSC20L - Flushing valves with flow ˜ 20 l/min [5.28 U.S. gpm] at 21 bar [304 psi]- in line version.

Valvole - Valve	*Peso* / Weight kg [lbs]
44081720000	4.4 [9.70]

DANA BREVINI Motion Systems

PREDISPOSIZIONE MOTORI H1C/LM2 PER MONTAGGIO VALVOLA DI SCAMBIO VSC
H1C/LM2 MOTORS PREDISPOSITION FOR VSC FLUSHING VALVE MOUNTING

Per il montaggio della valvola di scambio sui motori H1C con coperchio LM2 è necessario prevedere l'utilizzo dei coperchi di adattamento illustrati:

To mount the flushing valve on H1C motors with LM2 ports cover, it is necessary to provide the covers here shown:

N°	*Codice* Code	*Descrizione* Description	Note
1	34012770000	*Coperchio Distributore LM2 Predisposto per valvola di lavaggio* Port cover LM2 for Flushing valve	H1C/H1CR 020/030
2	34012780000	Coperchio Distributore LM2 Predisposto per valvola di lavaggio Port cover LM2 for Flushing valve	H1C/H1CR 040
3	34012820000	*Coperchio Distributore LM2 Predisposto per valvola di lavaggio* Port cover LM2 for Flushing valve	H1C 226

PREDISPOSIZIONE MOTORI H1C-H1CR / VM2 PER MONTAGGIO VALVOLA DI SCAMBIO VSC
H1C-H1CR / VM2 MOTORS PREDISPOSITION FOR VSC FLUSHING VALVE MOUNTING

Per il montaggio della valvola di scambio sui motori H1C/H1CR con coperchio VM2 è necessario prevedere l'utilizzo dei coperchi e delle flange di adattamento illustrati:

To mount the flushing valve on H1C/H1CR motors with VM2 ports cover, it is necessary to provide the covers and the flanges here shown:

N°	Codice Code	Descrizione Description	Note
1	34012940000	*Coperchio Distributore VM2 Predisposto per valvola di lavaggio* Port cover VM2 for Flushing valve	H1C/H1CR 020/030
	SPA00000372	Kit piastra di collegamento valvola Mouting plate valve Kit	
2	34012850000	Coperchio Distributore VM2 Predisposto per valvola di lavaggio Port cover VM2 for Flushing valve	H1C/H1CR 040
	SPA00000373	Kit piastra di collegamento valvola Mouting plate valve Kit	

PREDISPOSIZIONE MOTORI H2V / L2 PER MONTAGGIO VALVOLA DI SCAMBIO VSC
H2V / L2 MOTORS PREDISPOSITION FOR VSC FLUSHING VALVE MOUNTING

Per il montaggio della valvola di scambio sui motori H2V con coperchio L2 è necessario prevedere l'utilizzo dei coperchi e delle flange di adattamento illustrati:

To mount the flushing valve on H2V motors with L2 ports cover, it is necessary to provide the covers and the flanges here shown:

N°	*Codice* Code	*Descrizione* Description	Note
1	65015350000	*Kit flangia di adattamento* Mounting flange kit	H2V 226 (*)

(*) E' necessario prevedere un tubo esterno per la portata di lavaggio - non fornito.

(*) An external line for the flushing valve output flow is required - not provided

PREDISPOSIZIONE MOTORI SH11C/SH11CR LM2 PER MONTAGGIO VALVOLA DI SCAMBIO VSC
SH11C/SH11CR LM2 MOTORS PREDISPOSITION FOR VSC FLUSHING VALVE MOUNTING

Per il montaggio della valvola di scambio sui motori SH11C/ SH11CR con coperchio LM2 è necessario prevedere l'utilizzo dei coperchi di adattamento illustrati:

To mount the flushing valve on SH11C/SH11CR motors with LM2 ports cover, it is necessary to provide the covers here

N°	*Codice* Code	*Descrizione* Description	Note
1	31760800000	*Coperchio Distributore LM2 VSC SH11C 20/28/32 (ME)* Port cover LM2 VSC SH11C 20/28/32 (ME)	20-30 ME
	31760950000	*Coperchio Distributore LM2 VSC SH11C 20/28/32 SAE (SE)* Port cover LM2 VSC SH11C 20/28/32 SAE (SE)	20-30 SE
2	31754750000	*Coperchio Distributore LM2 (ISO) Predisposto per valvola di lavaggio* Port cover LM2 (ISO) for Flushing valve	055-063 ME
	31756900000	*Coperchio Distributore LM2 (SAE) Predisposto per valvola di lavaggio* Port cover LM2 (SAE) for Flushing valve	055-063 SE
3	31755400000	*Coperchio Distributore LM2 (ISO) Predisposto per valvola di lavaggio* Port cover LM2 (ISO) for Flushing valve	075-090 ME
	31729150000	*Coperchio Distributore LM2 (SAE) Predisposto per valvola di lavaggio* Port cover LM2 (SAE) for Flushing valve	075-090 SE
4	31756500000	*Coperchio Distributore LM2 (ISO) Predisposto per valvola di lavaggio* Port cover LM2 (ISO) for Flushing valve	108-125 ME
	31759700000	*Coperchio Distributore LM2 (SAE) Predisposto per valvola di lavaggio* Port cover LM2 (SAE) for Flushing valve	108-125 SE
5	31757700000	*Coperchio Distributore LM2 (ISO) Predisposto per valvola di lavaggio* Port cover LM2 (ISO) for Flushing valve	160-180 ME
	31703900000	*Coperchio Distributore LM2 (SAE) Predisposto per valvola di lavaggio* Port cover LM2 (SAE) for Flushing valve	160-180 SE

PREDISPOSIZIONE MOTORI SH11C/SH11CR VM2 PER MONTAGGIO VALVOLA DI SCAMBIO VSC
SH11C/SH11CR VM2 MOTORS PREDISPOSITION FOR VSC FLUSHING VALVE MOUNTING

Per il montaggio della valvola di scambio sui motori SH11C/ SH11CR con coperchio VM2 è necessario prevedere l'utilizzo dei coperchi e delle flange di adattamento illustrati:

To mount the flushing valve on SH11C/SH11CR motors with VM2 ports cover, it is necessary to provide the covers and the flanges here shown:

N°	Codice Code	Descrizione Description	Note
1	31760850000	*Coperchio Distributore VM2 VSC SH11C 20/28/32 (ME)* Port cover VM2 VSC SH11C 20/28/32 (ME)	20-30 ME - SE
	31761100000	*Coperchio Distributore VSC SH11C 20/28/32 SAE (SE)* Port cover VM2 (SAE) for Flushing valve	
	SPA00000372	Kit piastra *valvola VSC H1C/H1CR 20/30 VM2* Plate valve Kit VSC H1C/H1CR 20/30 VM2	
2	31757000000	*Coperchio Distributore VM2 (ISO) Predisposto per valvola di lavaggio* Port cover VM2 (ISO) for Flushing valve	055-063 ME - SE
	31757150000	*Coperchio Distributore VM2 (SAE) Predisposto per valvola di lavaggio* Port cover VM2 (SAE) for Flushing valve	
	SPA00000373	Kit piastra di collegamento valvola Mouting plate valve Kit	
3	31729200000	*Coperchio Distributore VM2 (ISO) Predisposto per valvola di lavaggio* Port cover VM2 (ISO) for Flushing valve	075-090 ME - SE
	31729250000	*Coperchio Distributore VM2 (SAE) Predisposto per valvola di lavaggio* Port cover VM2 (SAE) for Flushing valve	
	SPA00000653	Kit piastra di collegamento valvola Mouting plate valve Kit	
4	31759900000	*Coperchio Distributore VM2 (ISO) Predisposto per valvola di lavaggio* Port cover VM2 (ISO) for Flushing valve	108-125 ME - SE
	31759950000	*Coperchio Distributore VM2 (SAE) Predisposto per valvola di lavaggio* Port cover VM2 (SAE) for Flushing valve	
	SPA00000686	Kit piastra di collegamento valvola Mouting plate valve Kit	
5	31705500000	*Coperchio Distributore VM2 (ISO) Predisposto per valvola di lavaggio* Port cover VM2 (ISO) for Flushing valve	160-180 ME - SE
	31706300000	*Coperchio Distributore VM2 (SAE) Predisposto per valvola di lavaggio* Port cover VM2 (SAE) for Flushing valve	
	SPA00000686	Kit piastra di collegamento valvola Mouting plate valve Kit	

VALVOLE CONTROLLO DISCESA PER MOTORI H1C-SH11C-H1CR-H2V
PILOT ASSISTED OVERCENTRE VALVES FOR H1C-SH11C-H1CR-H2V MOTORS

VCD

Le valvole controllo discesa impediscono il trascinamento del motore da parte del carico e garantiscono un'azione anti cavitazione. La sezione limitatrice previene i picchi di pressione. Incorporata è pure una valvola selettrice per l'azionamento del freno negativo. Queste valvole sono flangiabili sui coperchi H1C-H1CR-SH11C-SH11CR/VM2, H1C-SH11C-SH11CR/LM2 o H2V/L2. La pressione di taratura deve essere circa 1.3 volte di quella indotta dal carico. Per consentire la discesa del carico, è richiesta una pressione minima di pilotaggio può essere calcolato con la seguente formula:

$$PP = \frac{PS - PL}{R + 1}$$

dove:
PP = press. di pilotaggio
PS = press. di taratura della valvola di massima
PL = press. indotta dal carico
R = rapporto di pilotaggio

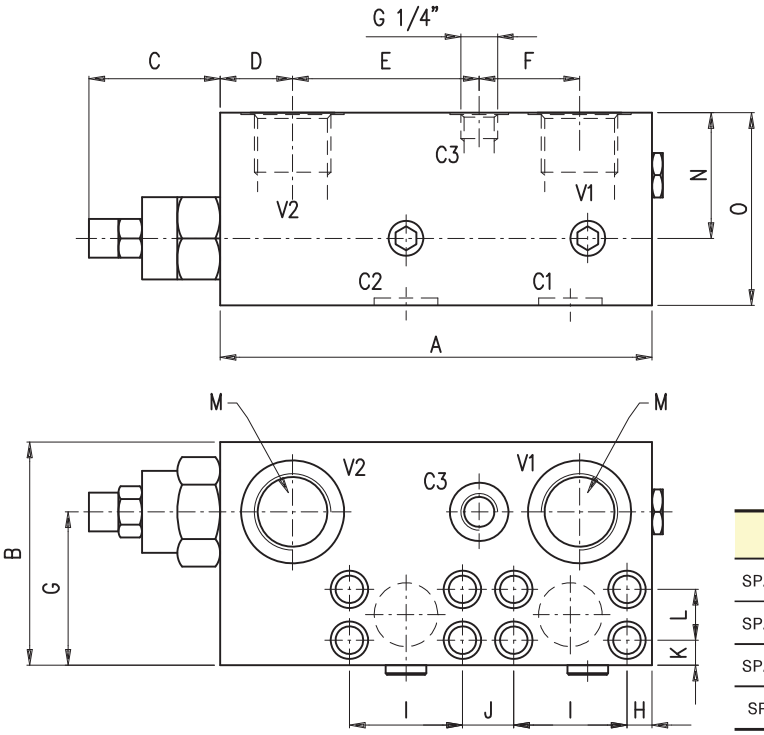
The pilot assisted overcentre valves prevent the motor from "running ahead" pulled by a driving load and allow cavitation free operation. The relief section limits the pressure shocks. These valves incorporate also a shuttle valve to release the fail safe brake. These valves are supplied flangeable on H1C-SH11C-SH11CR/LM2, H1C-H1CR-SH11C-SH11CR/VM2, or H2V/L2 ports covers.
The setting pressure value must be approx. 1.3 times the load induced pressure.To allow the descent of the load, a minimum pilot pressure must be supplied to the control valve. This is usually determined with the following formula:

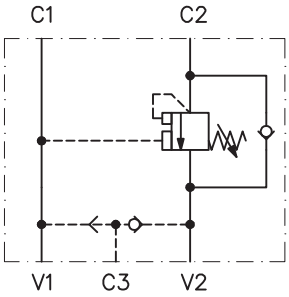
$$PP = \frac{PS - PL}{R + 1}$$

Where:
PP = pilot pressure
PS = pressure setting of relief valve section
PL = load induced pressure
R = piloting ratio

DIMENSIONI VALVOLE DI CONTROLLO DISCESA PER H1C/H1CR/SH11C/SH11CR VM2-FM2
PILOT ASSISTED OVERCENTRE VALVES FOR H1C/H1CR/SH11C/SH11CR VM2-FM2

VCD/M





(*)Valvole marinizzate
(*) Corrosion protected

La valvola viene fornita completa di viti ed O-ring.
Valve is supplied with screws and O-rings.

Valvola Valve	*Rapporto di pilotaggio* Piloting ratio	*Campo di taratura* Setting range	*Portata MAX* MAX. Flow rate	Materiale Material
SPA00000368(*)	6.2:1	30÷350 bar [435÷5075psi]	350 l/min [92.4 U.S. gpm]	Alluminio Aluminium
SPA00000369(*)	6.2:1	30÷350 bar [435÷5075psi]	350 l/min [92.4 U.S. gpm]	Alluminio Aluminium
SPA00000370(*)	6.2:1	30÷350 bar [435÷5075psi]	350 l/min [92.4 U.S. gpm]	Alluminio Aluminium
SPA00000756	4:1	140÷350 bar [2030÷5075psi]	300 l/min [79.2 U.S. gpm]	Acciaio Steel

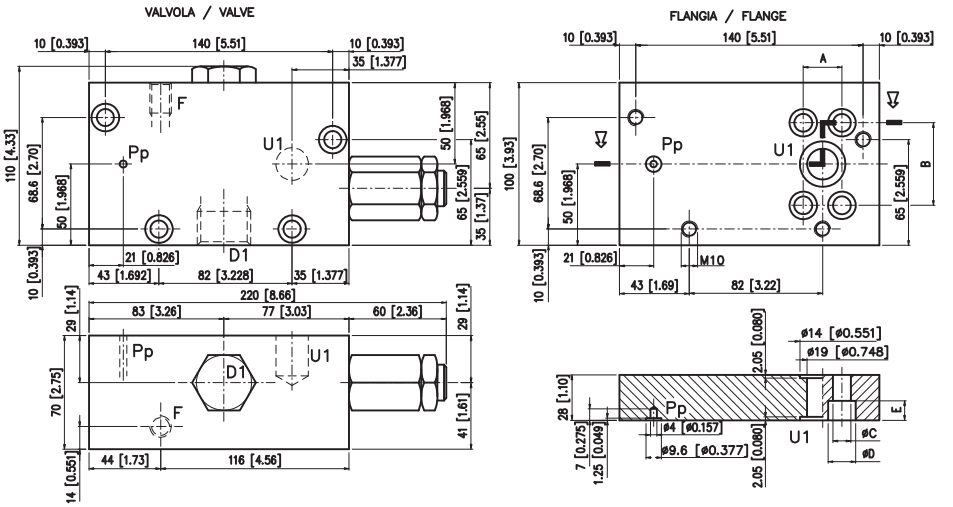
Valvola Valve	H1C-R VM2	SH11C-R VM2-FM2	A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]	F mm [in]	G mm [in]	H mm [in]	I mm [in]	L mm [in]	M mm [in]	N mm [in]	O mm [in]	J mm [in]	K mm [in]	*Peso* Weight kg [lbf]
SPA00000368(*)	020/030	020/030	155 [6.10]	80 [3.14]	47 [1.85]	26 [1.02]	67 [2.63]	36 [1.41]	55 [2.16]	9 [0.354]	40.6 [1.598]	18.2 [0.716]	1/2 G (BSPP)	45 [1.77]	69 [2.71]	18.4 [0.724]	9 [0.354]	2.7 [5.95]
SPA00000369(*)	040/045	055/063	183 [7.20]	90 [3.54]	47 [1.85]	26 [1.02]	95 [3.74]	36 [1.41]	65 [2.55]	11 [0.433]	50.8 [2.000]	23.8 [0.93]	3/4 G (BSPP)	45 [1.77]	69 [2.71]	24.2 [0.952]	13 [0.511]	3.5 [7.71]
SPA00000370(*)	/	075/090	198 [7.79]	100 [3.93]	47 [1.85]	26 [1.02]	110 [4.33]	36 [1.41]	75 [2.95]	13.4 [0.527]	57.2 [2.251]	27.8 [1.09]	1" G (BSPP)	45 [1.77]	69 [2.71]	26.8 [1.055]	12 [0.472]	4.2 [9.26]
SPA00000756	/	108-125 160-180	244 [9.61]	110 [4.33]	60.3 [2.37]	46 [1.81]	97 [3.82]	53 [2.09]	80 [3.15]	14 [0.55]	66.68 [2.62]	31.75 [1.25]	1" G (BSPP)	/	79 [3.11]	32.3 [1.27]	12 [0.472]	6 [13.22]

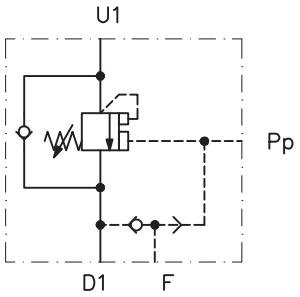
DIMENSIONI VALVOLE DI CONTROLLO DISCESA
PILOT ASSISTED OVERCENTRE VALVES DIMENSIONS

VCD/1

Corpo in acciaio / Steel casing

La valvola viene fornita completa di viti, o-ring e flangia
Valve is supplied with screws, o-rings and flange





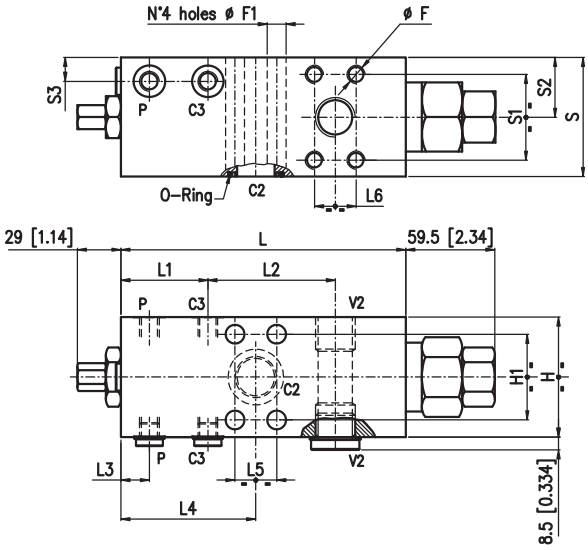
VCD/1
Rapporto di pilotaggio:
Piloting ratio: 2.9:1
Campo di taratura:
Setting range:.....0÷350 bar [0÷5075 psi]
Portata MAX.:
MAX. Flow rate: ..180 l/min [47.5 U.S. gpm]

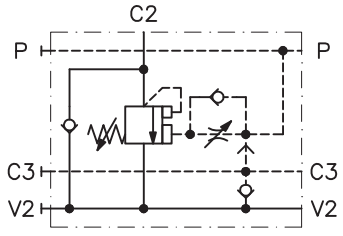
Valvola / Valve	SH11C-R/LM2	H1C/LM2	SH7V-R/LM	H2V/L2	A mm [in]	B mm [in]	ØC mm [in]	ØD mm [in]	E mm [in]	D1	F/Pp	*Peso* / Weight (kg[lbf])
SPA00000365	055/063	020/030 040	055	/	23.8 [0.937]	50.8 [2.000]	11 [0.433]	17 [0.66]	12 [0.472]	1" G (BSPP)	1/4 G (BSPP)	4.7 [10.4]
SPA00000366	075/090	/	075/108	/	27.8 [1.094]	57.1 [2.248]	13 [0.511]	19 [0.74]	14 [0.551]	1" G (BSPP)	1/4 G (BSPP)	4.7 [10.4]
SPA00000367	108/125 160/180	226	160	226	31.6 [1.244]	66.7 [2.625]	15 [0.590]	22 [0.86]	16 [0.62]	1" G (BSPP)	1/4 G (BSPP)	4.7 [10.4]

DIMENSIONI VALVOLE DI CONTROLLO DISCESA
PILOT ASSISTED OVERCENTRE VALVES DIMENSIONS

VCD/2

Corpo in acciaio / Steel casing *La valvola viene fornita completa di viti ed O-ring.*
Valve is supplied with screws and O-rings.





VCD/2
Rapporto di pilotaggio:
Piloting ratio: 13:1
Campo di taratura:
Setting range:.....250÷500 bar [3625÷7250 psi]
Pressione MAX.:
MAX. pressure: .....350 bar [5075 psi]
Portata MAX.:
MAX. Flow rate: .....350 l/min [92.4U.S. gpm]

(*) Il montaggio su SH7VR, prevede l'aggiunta di una piastra. Per chiarimenti contattare Dana Brevini.
The mounting on SH7VR, needs an additional flange. For more information contact Dana Brevini.

Valvola Valve	H1C/LM2 H2V/L2 SH7V-R/LM	SH11C-R LM2	C2 - V2	C3 - P	O-Ring	P. / W. kg [psi]	F
SPA00000371(*)	075/108	075-090	1" SAE 6000	1/4 G (BSPP)	2-219	8.8 [19.4]	M12
SPA00000597	160/226	108/125 160/180	1-1/4" SAE 6000	1/4 G (BSPP)	2-221	13 [28.65]	M14

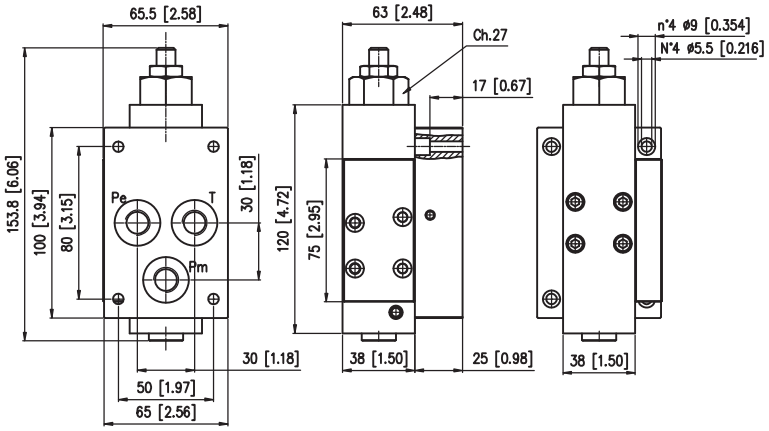
Valvola Valve	H1C/LM2 H2V/L2 SH7V-R/LM	SH11C-R LM2	S3 mm[in]	S2 mm[in]	S1 mm[in]	S mm[in]	L6 mm[in]	L5 mm[in]	L4 mm[in]	L3 mm[in]	L2 mm[in]	L1 mm[in]	L mm[in]	H1 mm[in]	H mm[in]	F1 mm[in]
SPA00000371	075/108	075/090	16 [0.62]	40 [1.57]	57.1 [2.248]	79.5 [3.12]	27.8 [1.094]	27.8 [1.094]	91 [3.58]	20 [0.78]	85 [3.34]	59 [2.32]	191 [7.51]	57.1 [2.248]	80 [3.14]	12.5 [0.492]
SPA00000597	160/226	108/125 160/180	21 [0.83]	49 [1.93]	66.7 [2.625]	99 [3.90]	31.8 [1.252]	31.8 [1.252]	77 [3.03]	11 [0.433]	94.5 [3.72]	36 [1.41]	176 [6.93]	66.7 [2.625]	99 [3.90]	14.5 [0.571]

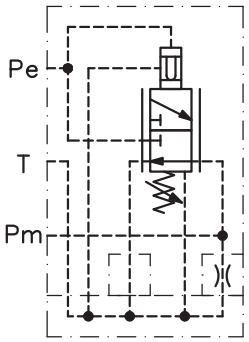
DANA BREVINI Motion Systems

La valvola di sequenza a pilotaggio interno viene utilizzata per aggiungere il dispositivo a pressione costante (PC) sui regolatori con montaggio 1 ($Vg_{max} \rightarrow Vg_{min}$).
La valvola VSI x CR (cod. 65002210000)
viene utilizzata solo sui nuovi regolatori CR.
La valvola VSI 2 (cod. 65009020000)
viene utilizzata solo come ricambio per sostituire sui vecchi comandi (PCR e +PC) la valvola cod. 44081520000.
Per maggiori informazioni, consultare il bollettino informativo 03-0094-A01.

The internal piloting sequence valve is meant to add a constant pressure control on the pumps standard controls with displacement setting 1 ($Vg_{max} \rightarrow Vg_{min}$).
The valve VSI x CR (code 65002210000)
is used only for CR controls.
The valve VSI 2 (code 65009020000)
is used only as a spare part for valves (code 44081520000) used on the old PCR and +PC controls.
For more informations, see the Service Bulletin 03-0094-A01.

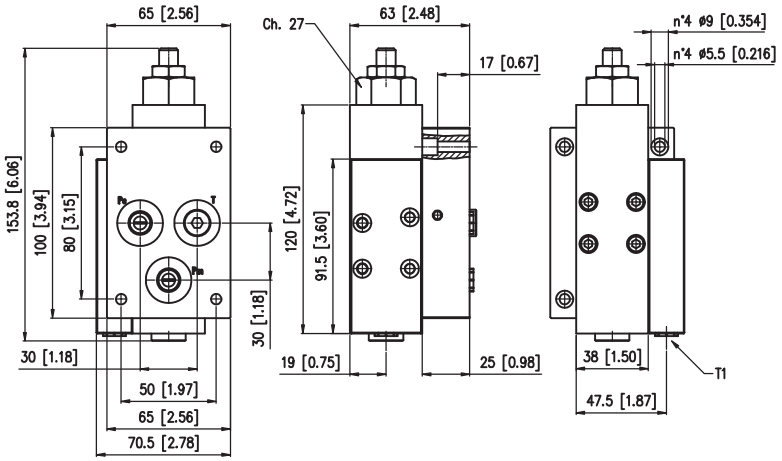
Dimensionale VSI x CR
VSI x CR dimensional

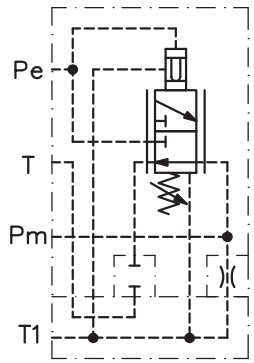




Pe = *Pressione d'esercizio attacco 1/4 G (BSPP) prof. 13mm*
Pm = *Pressione di controllo attacco 1/4 G (BSPP) prof. 13mm*
T = *Scarico attacco 1/4 G (BSPP) prof. 13mm*
Pe = Working pressure port *1/4 G (BSPP)* depth 13mm [0.511 in]
Pm = Control pressure port *1/4 G (BSPP)* depth 13mm [0.511 in]
T = Drain port *1/4 G (BSPP)* depth 13mm [0.511 in]

Dimensionale VSI2
VSI2 dimensional

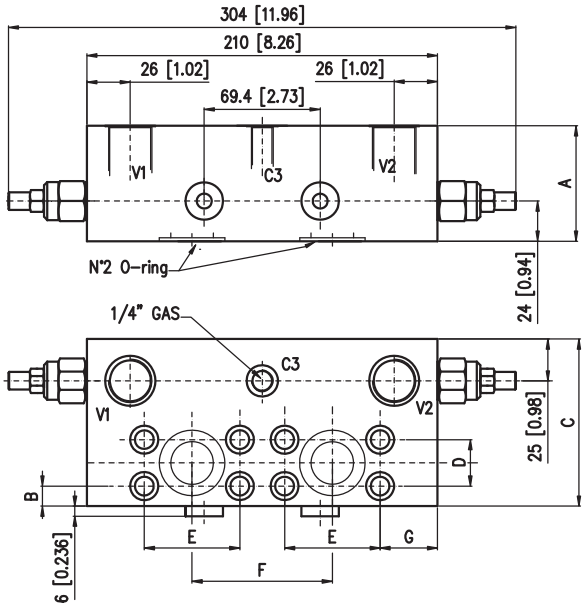


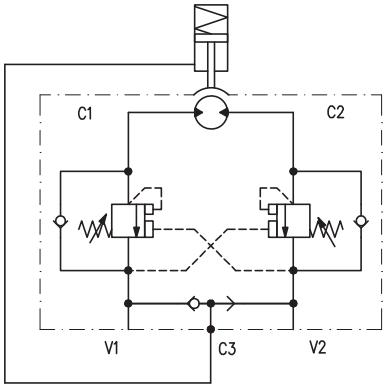


Pe = *Pressione d'esercizio attacco 1/4 G (BSPP) prof. 13mm*
Pm = *Pressione di controllo attacco 1/4 G (BSPP) prof. 13mm*
T1 = *Scarico attacco 1/8 G (BSPP) prof. 12mm*
Pe = Working pressure port *1/4 G (BSPP)* depth 13mm [0.511 in]
Pm = Control pressure port *1/4 G (BSPP)* depth 13mm [0.511 in]
T1 = Drain port *1/8 G (BSPP)* depth 12mm [0.472 in]

DIMENSIONI VALVOLA CONTROLLO ROTAZIONE E TRASLAZIONE PER H1C/H1CR/SH11C/SH11CR VM2-FM2
MOTION CONTROL VALVE FOR *H1C/H1CR/SH11C/SH11CR VM2-FM2 DIMENSIONS*

VCR1 D/AF





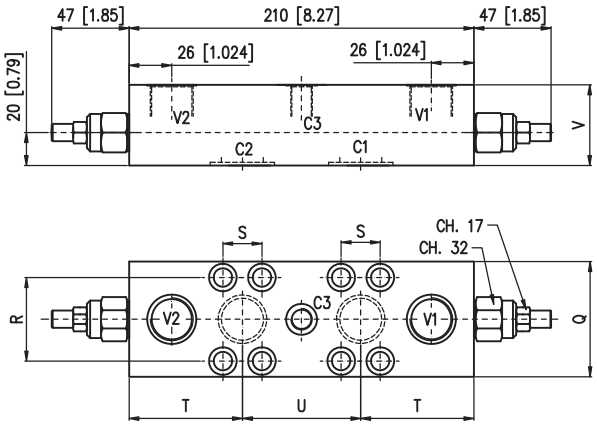
Corpo in alluminio
Valvole marinizzate
Alluminium alloy casing
Corrosion protected

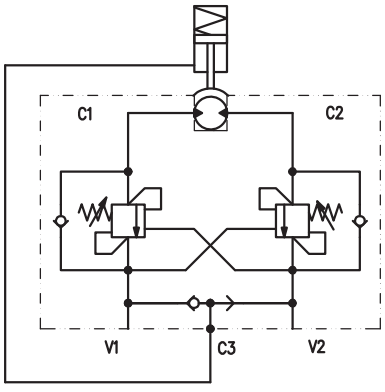
VCR1 D/AF
Rapporto di pilotaggio:
Piloting ratio: 6.2:1
Campo di taratura:
Setting range:.....30÷350 bar [435-5075 psi]
Taratura standard (Q=5 l/min).:
Standard setting (Q=5 l/min[1.32 U.S. gpm]): ...150÷170 bar [2175÷2465 psi]

Valvola / Valve	H1C-R VM2	SH11C-R VM2-FM2	A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]	F mm [in]	G mm [in]	V1-V2	O-RING	*Peso* Weight kg [lb]
SPA00000362	020/030	020/030	59 [2.32]	16.8 [0.66]	80 [3.14]	18.2 [0.716]	40.6 [1.598]	59 [2.322]	55.2 [2.17]	1/2 G (BSPP)	2-115	4.7 [10.4]

DIMENSIONI VALVOLA CONTROLLO ROTAZIONE E TRASLAZIONE
MOTION CONTROL VALVE DIMENSIONS

VCR2 D/AF



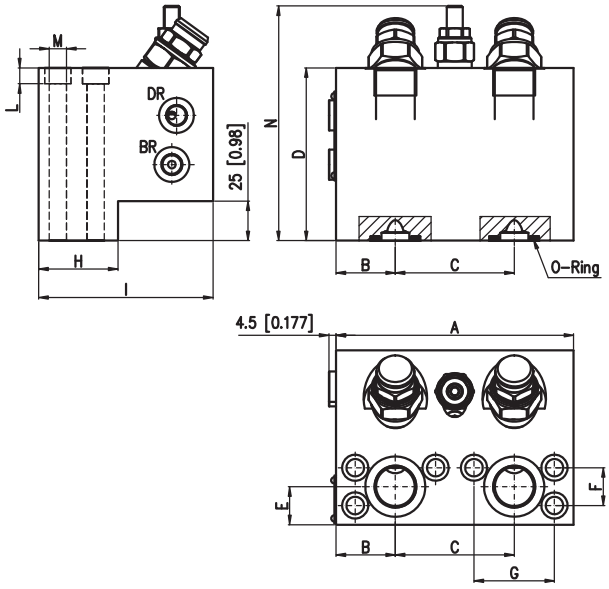


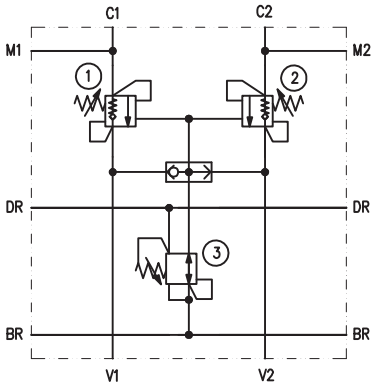
Corpo in alluminio
Valvole marinizzate
Alluminium alloy casing
Corrosion protected

VCR2 D/AF
Rapporto di pilotaggio:
Piloting ratio: 6.2:1
Campo di taratura:
Setting range:.....60÷350 bar [870-5075 psi]

Valvola / Valve	H2V F2	SH7V FM SH7VR FM	Q mm [in]	R mm [in]	S mm [in]	T mm [in]	U mm [in]	V mm [in]	C1-C2 mm [in]	V1-V2	C3	*Portata max Max flow* l/min [U.S.gpm]
SPA00000708	/	055	70 [2.75]	50.8 [2.000]	23.8 [0.937]	69 [2.716]	72 [2.835]	49 [1.93]	Ø 15 [Ø 0.59]	3/4 G (BSPP)	1/4 G (BSPP)	120 [31.68]

DANA BREVINI Motion Systems





Corpo in acciaio
Steel casing

VCR3
Pressione massima di lavoro:
Max operating pressure:.....420 bar [6090 psi]

SH11C-R 055-063:
Portata nominale:
Rated flow:.....150 l/min [39.6 U.S. gpm]
SH11C-R 075-090
Portata nominale:
Rated flow:.....300 l/min [79.2 U.S. gpm]

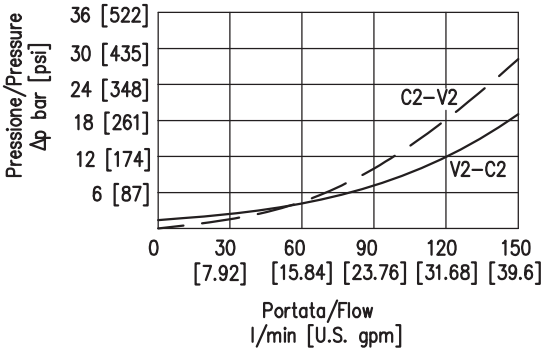
Taratura: almeno 1.3 volte la pressione indotta
Setting : at least 1.3 times the induced pressure

Valvola / Valve	H1C-R VM2	SH11C-R VM2-FM2	A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]	F mm [in]	G mm [in]	H mm [in]	I mm [in]	L mm [in]	M mm [in]	N mm [in]
SPA00000816	040/045	055/063	150 [5.90]	37.5 [1.47]	75 [2.95]	109 [4.29]	24 [0.944]	23.8 [0.937]	50.8 [2.00]	50 [1.97]	110 [4.33]	10 [0.393]	11 [0.433]	150 [5.91]
SPA00000817	/	075/090	165 [6.50]	40.5 [1.59]	84 [3.31]	139 [5.47]	33 [1.299]	27.76 [1.093]	57.15 [2.25]	64 [2.52]	140 [5.51]	15 [0.59]	12.5 [0.492]	230 [9.05]

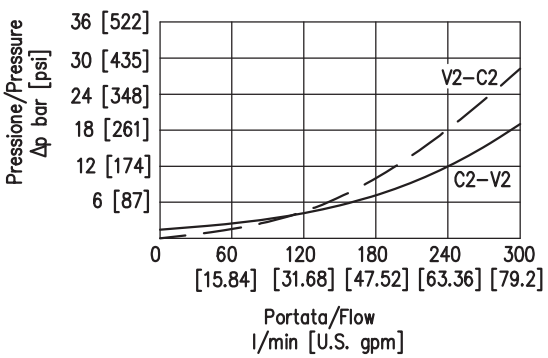
Valvola / Valve	H1C-R VM2	SH11C-R VM2-FM2	BR-DR	V1-V2	C1-C2	O-RING	*Peso* Weight kg [lb]
SPA00000816	040/045	055/063	1/4 G (BSPP)	3/4 G (BSPP)	3/4 SAE 6000	2-213	11.11 [24.48]
SPA00000817	/	075/090	1/4 G (BSPP)	1" G (BSPP)	1" SAE 6000	2-219	20.45 [45.07]

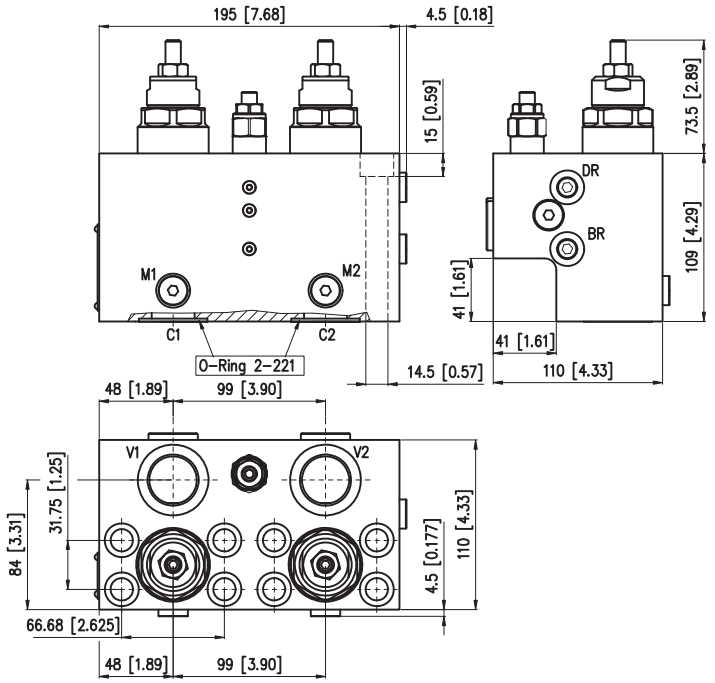
Valvola / Valve	H1C-R VM2	SH11C-R VM2-FM2	Rapporto di pilotaggio Piloting ratio	Taratura standard Standard setting 5 l/min [1.32 U.S. gpm]	Campo di taratura Setting range	Aumento pressione Pressure increase
SPA00000816	040/045	055/063	8:1	Valvola / Valve 1-2 = 380 bar [5510 psi] Valvola / Valve 3 = 30 bar [435 psi]	Valvola / Valve 1-2 = 100÷420 bar [1450÷6090 psi] Valvola / Valve 3 = 10÷60 bar [145÷870 psi]	Valvola / Valve 1-2 = 82 bar/giro [1189 psi/turn] Valvola / Valve 3 = 6 bar [87 psi]
SPA00000817	/	075/090	6:1	Valvola / Valve 1-2 = 380 bar [5510 psi] Valvola / Valve 3 = 30 bar [435 psi]	Valvola / Valve 1-2 = 100÷420 bar [1450÷6090 psi] Valvola / Valve 3 = 10÷60 bar [145÷870 psi]	Valvola / Valve 1-2 = 62 bar/giro [899 psi/turn] Valvola / Valve 3 = 6 bar [87 psi]

SH11C-R 055-063

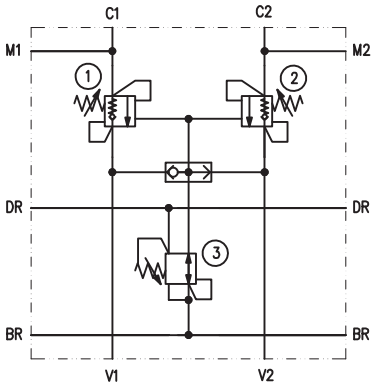


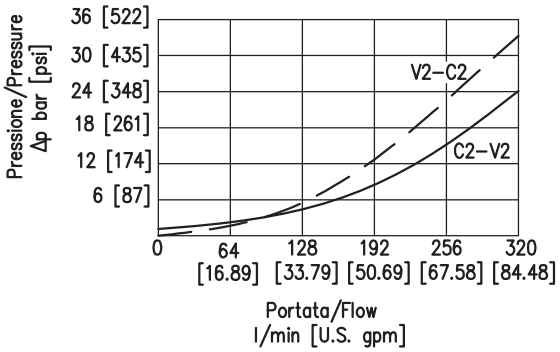
SH11C-R 075-090





Corpo in acciaio
Steel casing



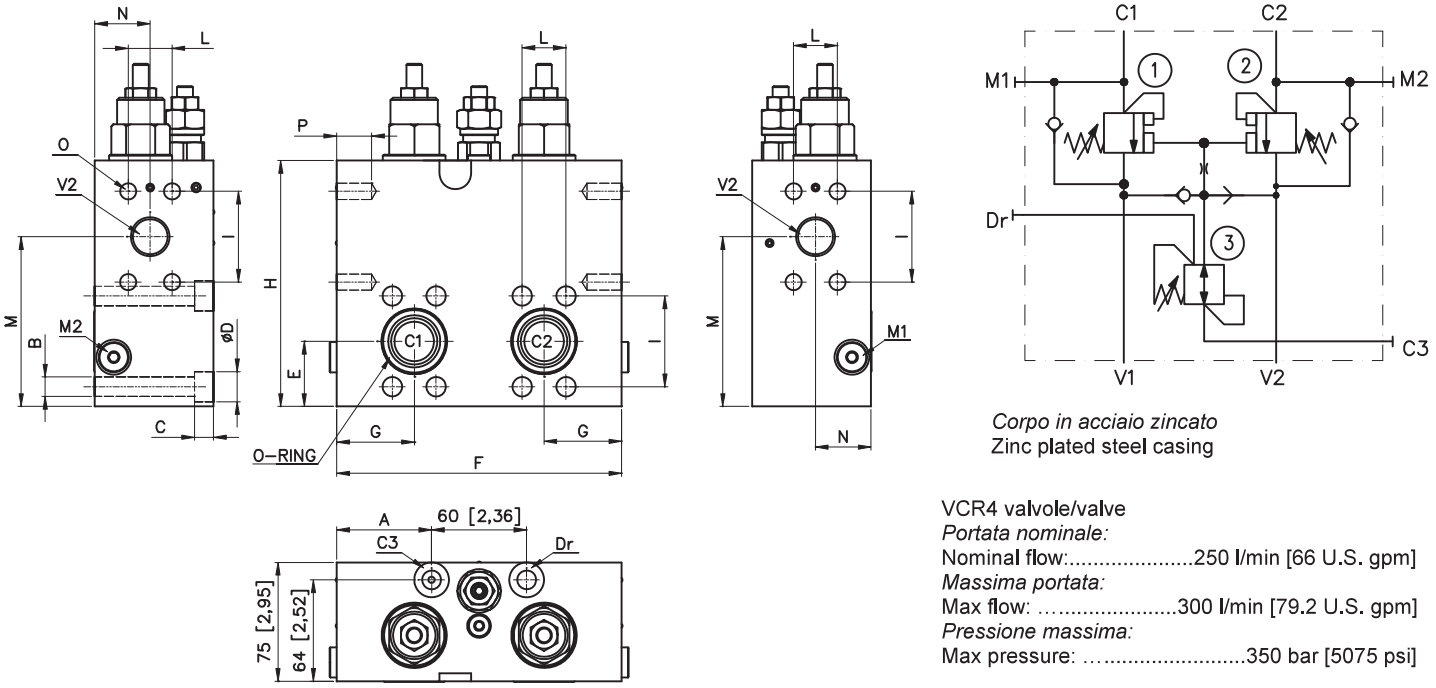


Valvola / Valve	SH11C-R VM2-FM2	BR-DR	V1-V2	C1-C2	*Peso* Weight kg [lb]
SPA00000794	108/125 160/180	1/4 G (BSPP)	1 G (BSPP)	1-1/4" SAE 6000	13.8 [30.41]

Taratura: almeno 1.3 volte la pressione indotta
Setting : at least 1.3 times the induced pressure

VCR3
Pressione massima di lavoro:
Max operating pressure:.....420 bar [6090 psi]
Portata nominale:
Rated flow:.....320 l/min [84.48 U.S. gpm]

Valvola / Valve	SH11C-R VM2-FM2	Rapporto di pilotaggio Piloting ratio	Taratura standard Standard setting 5 l/min [1.32 U.S. gpm]	Campo di taratura Setting range	Aumento pressione Pressure increase
SPA00000794	108/125 160/180	8:1	Valvola / Valve 1-2 = 350 bar [5075 psi] Valvola / Valve 3 = 40 bar [580 psi]	Valvola / Valve 1-2 = 140÷350 bar [2030÷5075 psi] Valvola / Valve 3 = 10÷60 bar [145÷870 psi]	Valvola / Valve 1-2 = 56 bar/giro [812 psi/turn] Valvola / Valve 3 = 6.5 bar [92.3 psi]



Corpo in acciaio zincato
Zinc plated steel casing

VCR4 valvole/valve
Portata nominale:
Nominal flow:.....250 l/min [66 U.S. gpm]
Massima portata:
Max flow: .....300 l/min [79.2 U.S. gpm]
Pressione massima:
Max pressure: .....350 bar [5075 psi]

Valvola / Valve	SH7V-R FM	A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]	F mm [in]	G mm [in]	H mm [in]	I mm [in]	L mm [in]	M mm [in]	N mm [in]	O mm [in]	P mm [in]
SPA00000818	75/108	60 [2.36]	12.25 [0.48]	12 [0.47]	19 [0.75]	41 [1.614]	180 [7.08]	49 [1.93]	155 [6.10]	57.15 [2.25]	27.76 [1.093]	107 [4.212]	35 [1.378]	M12	20 [0.78]
SPA00000819	160	70 [2.75]	14.5 [0.57]	14 [0.55]	22 [0.86]	44 [1.732]	200 [7.87]	54 [2.12]	160 [6.30]	66.68 [2.625]	31.75 [1.25]	112 [4.409]	36 [1.417]	M14	22 [0.86]

Valvola / Valve	SH7V-R FM	C1-C2	V1-V2	C3-Dr	M1-M2	O-RING	*Peso* Weight kg [lb]
SPA00000818	75/108	1" SAE 6000	1" SAE 6000	1/4 G (BSPP)	1/4 G (BSPP)	2-219	15 [33.06]
SPA00000819	160	1-1/4" SAE 6000	1-1/4" SAE 6000	1/4 G (BSPP)	1/4 G (BSPP)	2-221	17 [37.468]

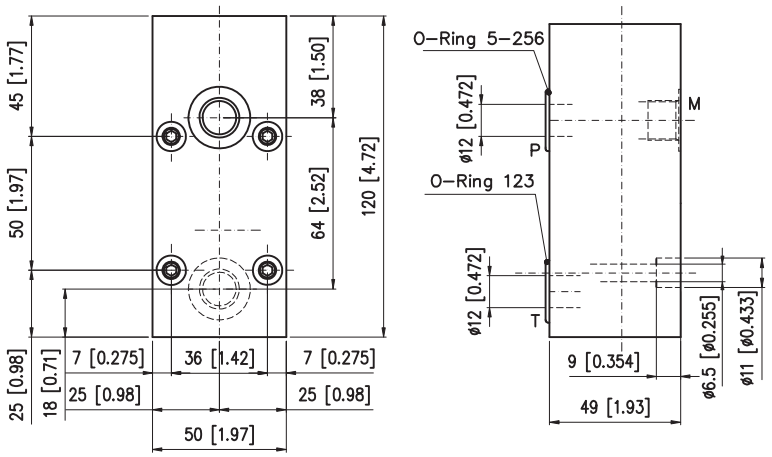
Valvola / Valve	SH7V-R FM	Rapporto di pilotaggio Piloting ratio	Taratura standard Standard setting 5 l/min [1.32 U.S. gpm]	Campo di taratura Setting range	Aumento pressione Pressure increase
SPA00000818	75/108	4.5:1	Valvola / Valve 1-2 = 350 bar [5075 psi] Valvola / Valve 3 = 20 bar [290 psi]	Valvola / Valve 1-2 = 140÷350 bar [2030÷5075 psi] Valvola / Valve 3 = 5÷70 bar [72.5÷1015 psi]	Valvola / Valve 1-2 = 130 bar/giro [1885 psi/turn] Valvola / Valve 3 = 16.5 bar [239.25 psi]
SPA00000819	160	4.5:1	Valvola / Valve 1-2 = 350 bar [5075 psi] Valvola / Valve 3 = 20 bar [290 psi]	Valvola / Valve 1-2 = 140÷350 bar [2030÷5075 psi] Valvola / Valve 3 = 5÷70 bar [72.5÷1015 psi]	Valvola / Valve 1-2 = 130 bar/giro [1885 psi/turn] Valvola / Valve 3 = 16.5 bar [239.25 psi]

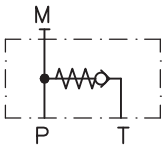
Valvola / Valve	SH7V-R FM	Pressione di lavoro massima Max operating pressure	Massima portata Max flow
SPA00000818	75/108	Valvola / Valve 1-2 = 350 bar [5075 psi] Valvola / Valve 3 = 350 bar [5075 psi]	Valvola / Valve 1-2 = 240 l/min [63.36 U.S. gpm]
SPA00000819	160	Valvola / Valve 1-2 = 350 bar [5075 psi] Valvola / Valve 3 = 350 bar [5075 psi]	Valvola / Valve 1-2 = 240 l/min [63.36 U.S. gpm]

VALVOLA UNIDIREZIONALE
CHECK VALVE
VU165

La valvola viene utilizzata nelle applicazioni unidirezionali in cui il motore è sottoposto a carichi inerziali elevati, evitandone la cavitazione durante le fasi di arresto.
Per il montaggio della valvola unidirezionale sui motori H1C-SH11C con coperchio LM2 è necessario l'utilizzo di coperchi dedicati.

The valve is used in unidirectional applications when the motor is subject to high inertial loads, avoiding cavitation during the motor decelerations.
To mount the check valve on H1C-SH11C motors with LM2 ports cover, it is necessary a dedicated cover.





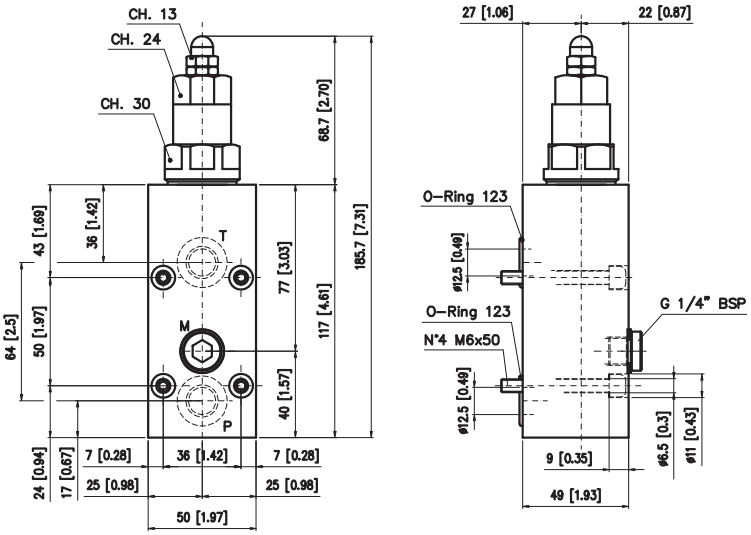
VU165
Pressione Massima:
Max Pressure:.....350 bar [5075 psi]
Portata di attraversamento Massima:
Max Flow:.....65 l/min [17.2 U.S. gpm]

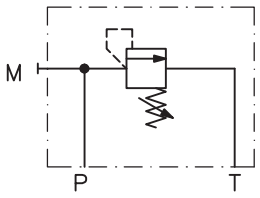
***Valvola* / Valve**
SPA00000361

VALVOLA ANTIURTO
ANTI-SHOCK VALVE
VSD 120

Queste valvole hanno lo scopo di proteggere il motore da improvvise sovrapressioni. Sono rapide nella risposta e di sicura affidabilità. Quando la pressione d'utilizzo supera il valore della taratura della valvola, l'olio viene scaricato sul ramo di bassa pressione.
Per il montaggio della valvola antiurto sui motori H1C con coperchio LM2 è necessario l'utilizzo di coperchi dedicati, per il montaggio su motori H2V 226 con coperchio L2 è necessario l'utilizzo di una flangia di adattamento (cod. 31720400000)

These valves have the purpose to protect the motor from pressure spikes. The response time is very short, being this valves directly operated. When the pressure in the system exceeds the setting of the valve, the spool opens and discharges an amount of flow to the low pressure side.
To mount the anti-shock valve on H1C motors with LM2 ports cover, it is necessary a dedicated cover, to mount on H2V 226 motors with L2 ports cover, it is necessary a dedicated mounting flange (cod. 31720400000).





VSD120
Taratura Massima:
Max Setting :.....350 bar [5075 psi]

***Valvola* / Valve**
52123000120