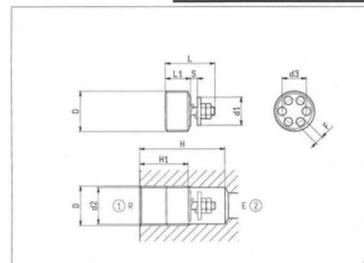
UKŁADY HYDRAULICZNE



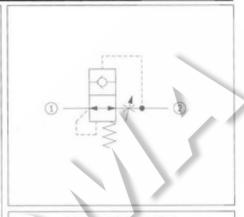
ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

FLOW CONTROL VALVES HOSE BURST PROTECTION INSERT-TYPE

VP-N-H VP-N-M OD.41.03.03 - Y - 00



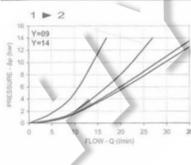
B L1	17.5 L	22 H1	33 H	2.4 F.	8.5 d3	11.75 d2		5.5 ch1	ZCH001 TIGHTENING TOOL	23.1 TIGHTENING TORQUE	25 Q	G 1/4	09 V	5 Weight Kg
9.5	21	26	37	3.5	10.5	1000		5.5	ZQH002	3±1	50	G 3/8	02	10
11	25	30	45	45	13	19	.15	7	ZCH003	4±2	80	G 1/2	03	20
15.5	30.5	38	54	6	16	24.5	18.5	7	ZCH004	10±2	150	G 3/4	04	42
21	40	46	70	7	20	30.75	24	8	ZCH006	15±2	220	G 1	05	96
8	17.5	22	33	2.4	8.5	12.5	9.5	5.5	ZCH001	2±1	25	M14x1.5	14	5
10.5	21	26	37	3.5	10.5	14.5	12.5	5.5	ZCH002	3±1	50	M16x4-5	16	10.
10.5	21	26	37	3.5	10.5	16.5	125	5.5	ZCH002	3±1	50	M18x1.5	18	10
12	25	30	45	4.5	13	18.5	15	7	ZCH003	4±2	80	M20×1.5	20	20
12	25	30	45	4.5	13	20.5	15	7	ZCH003	4±2	80	M22x1.5	22	20
17	30.5	38	54	6	16	25	18.5	7	ZCH004	10±2	150	M27x2	27	42

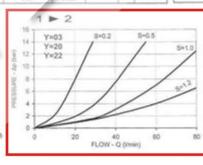


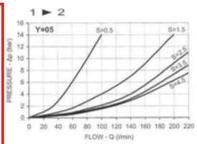
TECHNICAL	DATA	
Maximum Operating Pressure	350	bar
Rated Flow		see table
Fluids - Temperatures	page	7.01.040
Testing Conditions - Seals	page	7.01.040
Filtration : 25 µm nominal o better	r page	7.01.050
Available on request: orifice in	the washe	r, ensuring

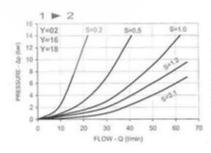
a slow descent of the load with valve in closed position. Orifice diameter has to be specified when ordering.

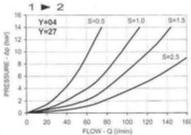
IMPORTANT: VPN-M (METRIC THREAD) are not available from stock and not included in our standard price list. Please contact our Sales Department for any information.











006-10124b





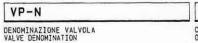
UKŁADY HYDRAULICZNE



ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

HYDRAULICKÉ SYSTÉMY

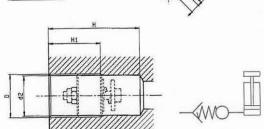
SCREW-IN CARTRIDGE HOSE BURST VALVES



0D.41.02.00.03 - Y

CODICE D'ORDINAZIONE ORDERING CODE





These valves can block flow from an actuator if the descent speed of the load exceeds the maximum acceptable speed, for example in case of hose failure. They should be screwed either directly into the actuator or into an in-line manifold, mounted as close as possible to the actuator which has to be controlled. Sealing parts are superfinished and leak proof.

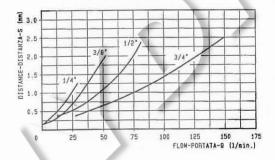
proof.
It is recommended to fit a flow regulator valve downstream the hose burst valve at the end of the flexible hose and to pre-set the valve for a flow at least 50% higher than the regulated flow.

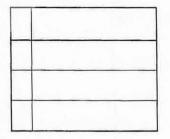
- Filtration level : 25 micron o better

Pressione di lavoro max 350 bar / Portata max vedi diagramma

Max working pressure 350 bar / Max flow see graph

Li	L	H1	Н	F	d3	95	di	L2		1		D	Peso kg Weight kg
8	19	24	35	2.4	8.5	11.75	9.5	4				1/4° BSPP	-
10.5	22.5	56	37	3.5	10.5	15.2	12.5	4.5				3/8° BSPP	
13	29	30	45	4.5	13	19	15	5.5			1	1/2" BSPP	200000000000000000000000000000000000000
18	34	38	54	6	16	24.5	18.5	6				3/4° BSPP	0.042





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		-		
				-
_			 	-

Υ	ATTACCHI / PORT SIZE								
	D								
02	3/8" BSPP								
03	1/2" BSPP								
04	3/4" BSPP								
09	1/4° BSPP								

HAR. 93

HYDRAULICKÉ SYSTÉMY



UKŁADY HYDRAULICZNE



ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

FLOW CONTROL VALVES HOSE BURST PROTECTION INSERT-TYPE

VP-N-H

VP-N-M

DESCRIPTION - OPERATION

These valves can block flow from an actuator if the descent speed of the load exceeds the medium acceptable speed, for example in case of hose failure. Flow between system and actuator is normally allowed, but the valve closes and instantly shuts off flow from the actuator if a line breaks and setting of the valve (BLOCKING FLOW) is exceeded. These valves are designed to be mounted as close as possible to the actuator which has to be controlled, either screwed directly into the actuator or into an in-line manifold.

HOW TO CALCULATE BLOCKING FLOW AND PREVENT UNDESIRED OPERATION

The BLOCKING FLOW of a hose burst valve has to be calculated multiplying the regulated flow from the actuator by a factor between 1,5 (manual directional control valve) and 2 (solenoid operated directional control valve). This is to prevent undesired operation, since these valves are sensitive to any transient flow above setting. In systems where very big cylinders or very high loads are used, the only way to prevent undesired operation is to insert a fixed orifice in the circuit. Flow through the orifice at the maximum load conditions must be higher than regulated flow from the actuator but lower than blocking flow of the hose burst valve. The orifice has to be placed in a part of the circuit different from the line which has to be protected by the hose burst valve, such as the line to tank (see example B), obviously at the minimum load conditions, the descent of the load could be very slow.

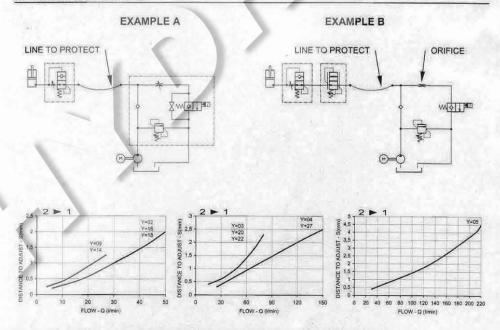
SETTING OF THE VALVE

- . Block valve body in a clamp, paying attention not to damage external thread.
- · Screw the locknut completely out.
- . Screw the nut down until washer reaches the desired DISTANCE TO ADJUST S (see diagrams below).
- . Screw the locknut down while keeping the nut blocked with another wrench and tighten at 2-3 Nm torque.

INTERNAL LEAKAGE IN CLOSED POSITION

Sealing parts are superfinished and leakproof, but leakage through the external thread has to be considered normal and does not affect correct operation, since the function of this valve is to prevent the load from falling down in case of a line break, but not to hold it for long time in the same position. This leakage anyway does not exceed 500 cm3/min at 350 bar with 46 cSt oil.

APPLICATION EXAMPLES:



N.B: For any fixed distance to adjust "S" BLOCKING FLOW(2 ▶ 1) can have ±10% fluctuations.