

Pressure relief pilot operated poppet type and anti-cavitation valve - External drain Special cavity, YHC

VMR2-Y



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage poppet (low-leakage, seat type), allowing it to shift and provide relief flow through 2 to tank.

The anti-cavitation function makes up for lacking oil volumes caused, for example, by leakage when pressure valves respond or in the case of leading loads. If the pressure at main port 1 is lower than the one at main port 2, the spool will be lifted out of its seat. Hydraulic fluid flows from main port 2 to main port 1. The spring chamber is drained to tank at port 3 allowing a consistent relief setting independent of back-pressure at port 2.

Max. operating pressure port 1 (P)	420 bar (6000 psi)	
Max. pressure admitted port 2 (T)	50 bar (725 psi)	
Max. counter pressure port 3 (Y)	50 bar (725 psi)	
Max. flow	240 l/min (63.4 gpm)	
Max. internal leakage ¹⁾	45 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F) (Buna N) -20 to 120 °C (-4 to 248 °F) (Viton)	
Installation torque ²⁾	100 Nm (74 ft-lbs)	
Weight	0.29 kg (0.64 lbs)	
Special cavity	YHC (R901148103)	
MTTFD	150 years see RE 18350-51	
	Please refer to section "Hydraulic integrated circuit" or consult factory	
Lines bodies and standard assemblies		
assemblies	integrated circuit" or consult factory	
assemblies	integrated circuit" or consult factory Code: RG22R3010520100	
assemblies Seal kit (Buna N) ³⁾	integrated circuit" or consult factory Code: RG22R3010520100 material no: R930076960	
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1) At 80% of pressure setting.

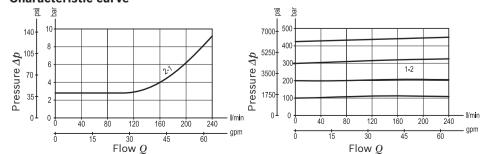
VMR2.YHC

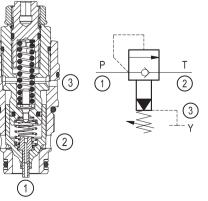
Technical data

 Torque value valid for installation in cast iron and steel manifolds. In case of different body materials, please consult factory.
Only external seals for 10 valves.

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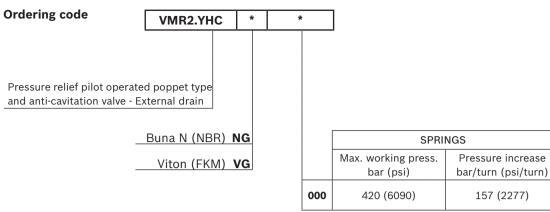






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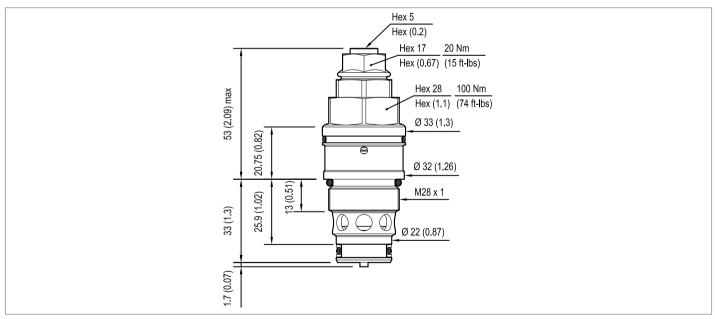


* Valves are delivered set at pressure setting <25 bar and with adjustment device not tighten. Fine setting to be done by customer. For case of request of factory set valve, please consult factory.

Preferred types

Туре	Material number	Туре	Material number
VMR2.YHC.NG.000	R930073716		
VMR2.YHC.VG.000	R930070454		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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