

Insert type Relief, direct acting and anti-cavitation function

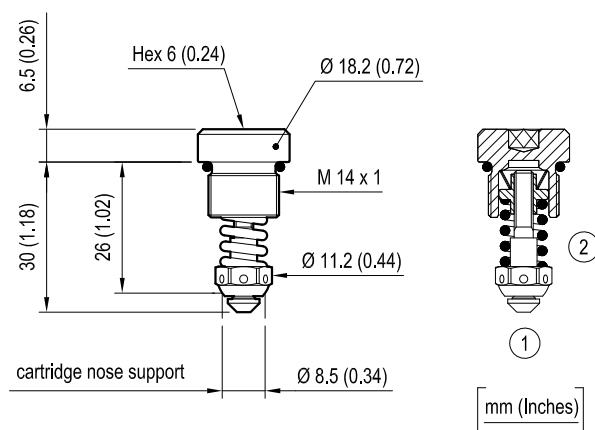
Special cavity, 869

VMA1.025

0T.M4.05 - X - 99 - Z - W



Dimensions

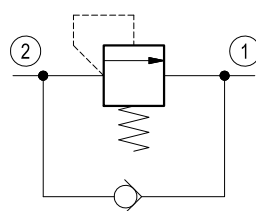


Description

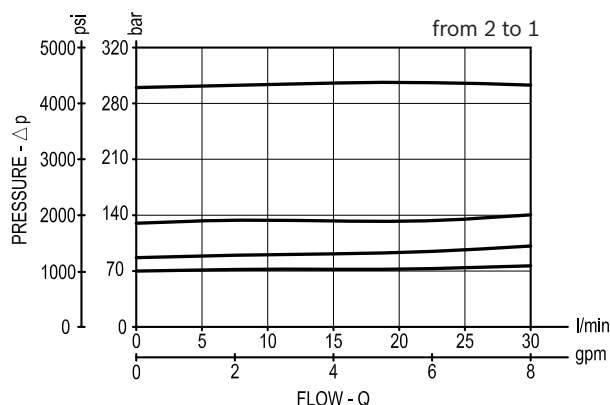
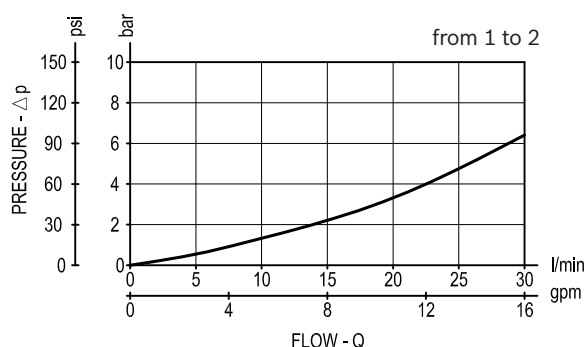
Flow is free from 1 to 2 until pressure increases to meet the selected valve setting, allowing relief flow through port 1 to tank. This valve combine the typical function of shock relief valve (direct acting) and anticavitation function through the check valve. The direct action and the specific design allow a very fast opening and closing.

Note: to obtain a good leak proof performance coin the cavity seat using a loose valve seat (P/N 0F.S0.049) as a coining tool.

Please consult factory for any question.



Performance



Technical data

Max. operating pressure	bar (psi)	300 (4350)
Max. flow	l/min. (gpm)	30 (8)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	30-35 (22-26)
Weight	kg (lbs)	0.03 (0.07)
Special cavity		869 see data sheet RE 18325-75
MTTFd		150 years see RE 18350-51
Lines bodies and standard assemblies		Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit (**)	code material no.	RG0869020000100 R931002405
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination		Nominal value max. 10µm (NAS 8) ISO 4406 20/18/15
Installation		No restrictions
Other Technical Data		See data sheet RE 18350-50

(*) at 80% of pressure setting

(**) Only external seals for 10 valves

Ordering code

OT.M4.05	X	99	Z	W	*
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Adjustments

= 00 Fixed setting

Special cavity, 869

Series O/A to L
unchanged performances and dimensions

SPRINGS	
Adj. pressure range bar (psi)	
20-70 (290-1000)	= 05
80-100 (1160-1450)	= 10
110-250 (1595-3625)	= 20
260-300 (3770-4350)	= 30

Std. SETTING bar (psi) Q=5 l/min (1.3 gpm)

	for Z=05	for Z=10	for Z=20	for Z=30		
= 02	20 (290)	80 (1160)	110 (1600)	260 (3770)		
= 03	30 (440)	90 (1300)	120 (1750)	270 (3915)		
= 04	40 (580)	100 (1450)	130 (1890)	280 (4060)		
= 05	50 (730)		140 (2030)	290 (4205)		
= 06	60 (870)		150 (2180)	300 (4350)		
= 07	70 (1020)		160 (2320)			
= 08			170 (2470)			
= 09			180 (2610)			
= 10			190 (2760)			
= 11			200 (2900)			
= 12			210 (3000)			
= 13			220 (3190)			
= 14			230 (3335)			
= 15			240 (3480)			
= 16			250 (3625)			

Type	Material number
OTM405009905020	R931002107
OTM405009905030	R931002109
OTM405009905040	R931002110
OTM405009905050	R931002111
OTM405009905060	R931002112
OTM405009905070	R931002115
OTM405009910020	R931002117
OTM405009910030	R931002118
OTM405009910040	R931002095
OTM405009920020	R931002119
OTM405009920030	R931002120
OTM405009920040	R931002121
OTM405009920050	R931002123
OTM405009920060	R931002097
OTM405009920070	R931002124
OTM405009920080	R931002125

Type	Material number
OTM405009920090	R931002127
OTM405009920100	R931002128
OTM405009920110	R931002099
OTM405009920120	R931000064
OTM405009920130	R931002100
OTM405009920140	R930053375
OTM405009920150	R931002651
OTM405009920160	R931002650
OTM405009930020	R930064065
OTM405009930030	R930064053
OTM405009930040	R930064066
OTM405009930050	R930064067
OTM405009930060	R930064052