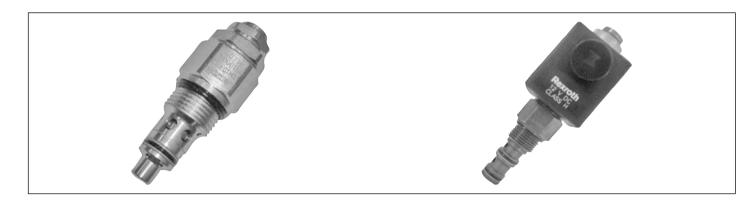


Nominal sizes 08 to 10, special cavities

RE 18301-91

Edition: 05.2016 Replaces: 07.2012



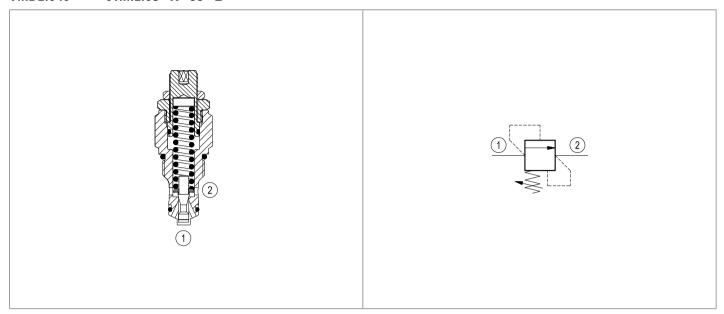
Contents

Relief, direct acting guided poppet type Common cavity	,
Size 10	2
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Coils - Connectors	12

2

Relief, direct acting guided poppet type Common cavity, Size 10

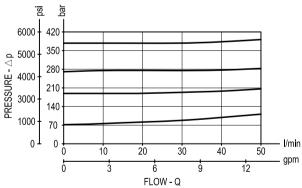
VMD1.040 0T.M1.03 - X - 99 - Z



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

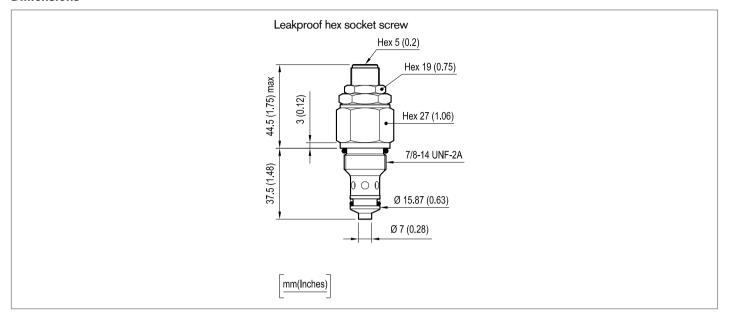
Performance

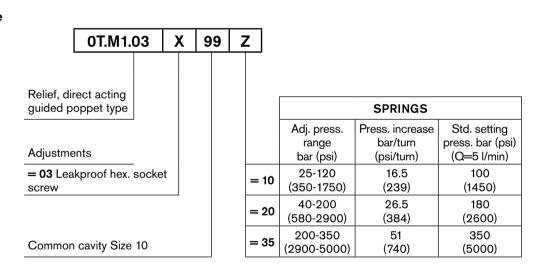


Technical Data

General		
Max pressure	bar (psi)	350 (5000)
Max flow	l/min (gpm)	50 (13)
Installation torque	Nm (ft-lb)	55-65 (41-48)
Cavity		CA-10A-2N
Weight	kg (lbs)	0.17 (0.38)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)

Туре	Material number	
0TM10303991000	00 R901099401	
0TM10303992000	00 R901099402	
0TM10303993500	00 R901114696	

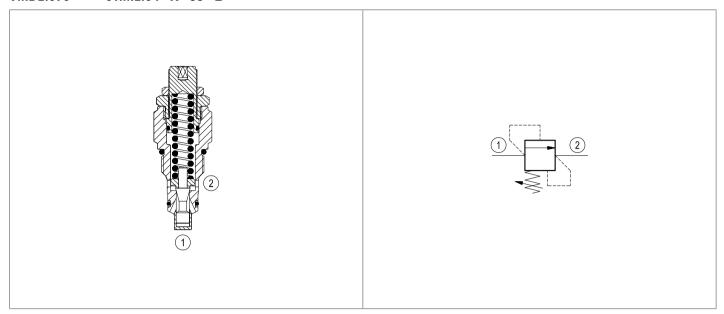




4 Relief, direct acting guided poppet type Common cavity, Size 10

Relief, direct acting guided poppet type Common cavity, Size 10

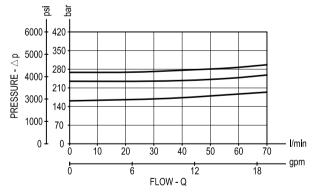
VMD1.070 OT.M1.04 - X - 99 - Z



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

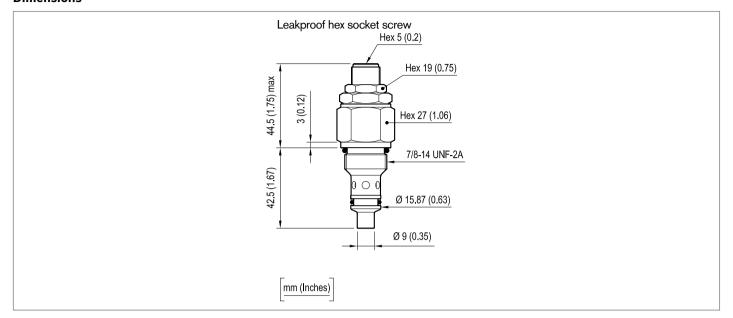
Performance

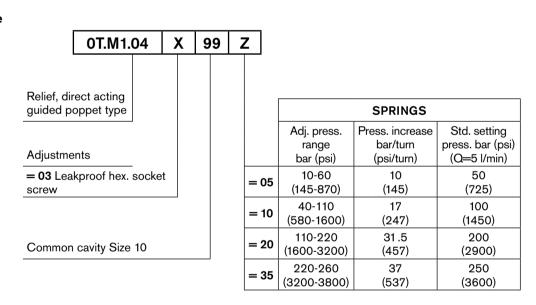


Technical Data

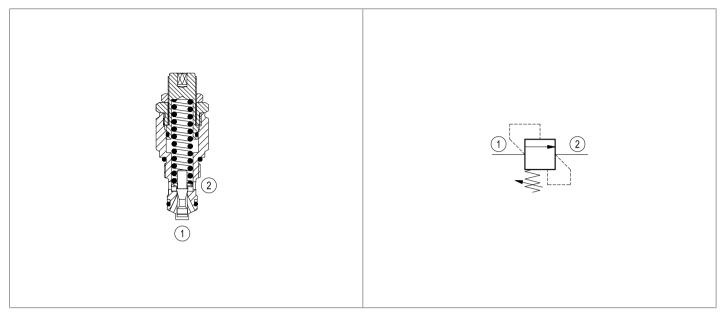
General		
Max pressure	bar (psi)	260 (3800)
Max flow	l/min (gpm)	70 (19)
Installation torque	Nm (ft-lb)	55-65 (41-48)
Cavity		CA-10A-2N
Weight	kg (lbs)	0.18 (0.4)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)

Туре	Material number
0TM104039905000	R901099575
0TM104039910000	R901099604
0TM104039920000	R901116269
0TM104039935000	R901099642





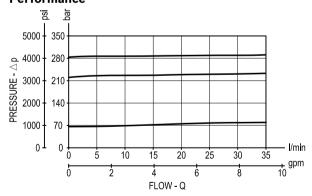
Relief, direct acting guided poppet type Special cavity, Size 019-E



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

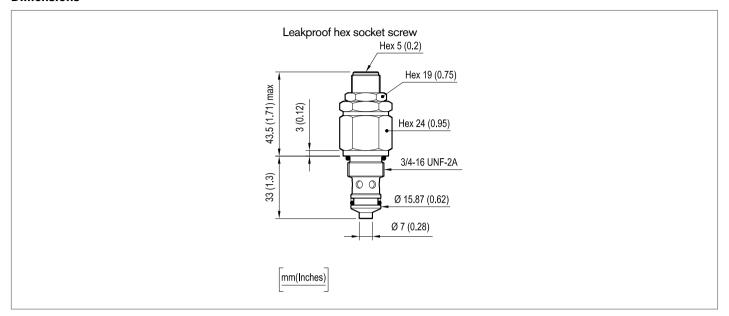
Performance

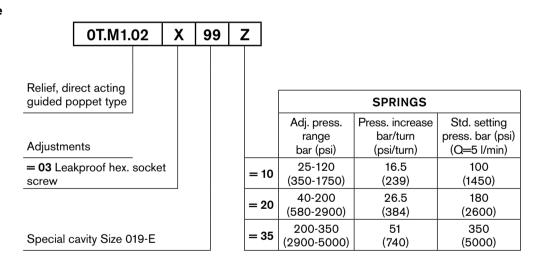


Technical Data

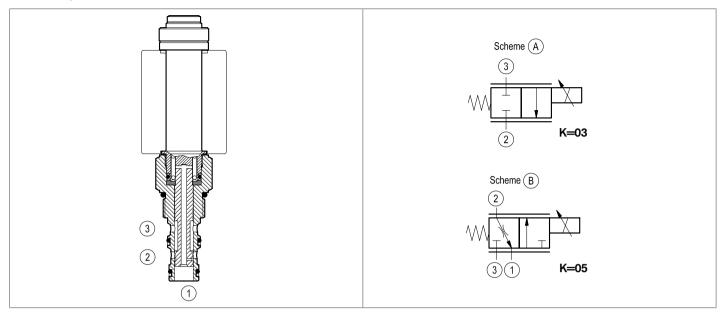
General		
Max pressure	bar (psi)	350 (5000)
Max flow	l/min (gpm)	35 (9)
Installation torque	Nm (ft-lb)	40-45 (30-33)
Special Cavity		019-E
Weight	kg (lbs)	0.13 (0.29)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)

Туре	Material number	
0TM102039910000		
0TM102039920000	R901091925	
0TM102039935000	R901091920	





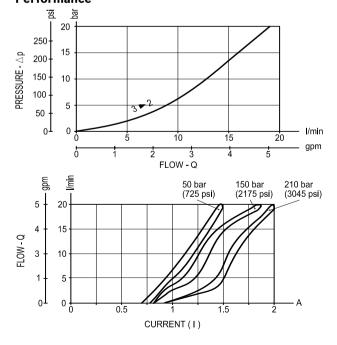
Proportional valves non compensated flow regulators Common cavity, Size 10



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Performance

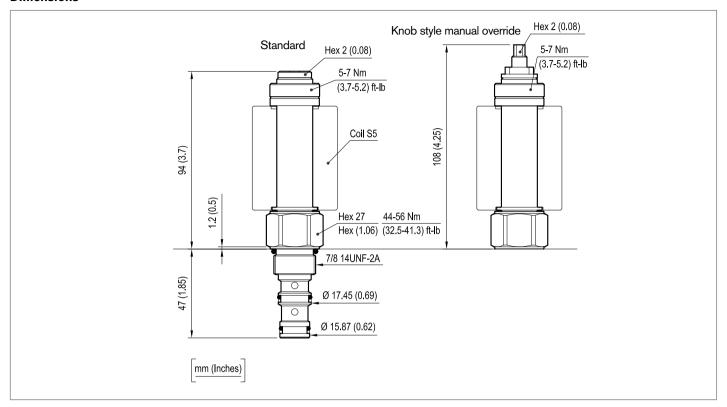


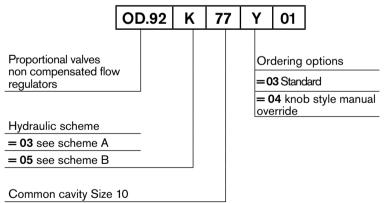
Technical Data

General		
I max(±15%) for 12 V DC coil	Α	2
I min(±15%) for 12 V DC coil	Α	0.9
Recommended PWM frequency	Hz	150-180
Internal leakage at 210 bar (3000 psi) with 46 cSt oil	cm³/min (in³/min)	max 180 (11)
Cavity		CA-10A-3N
Coil	S5 (must be ordered separately)	
Minimum voltage required	90% of nominal value	
Testing conditions - Seals	Internal and external seals are designed for applications that operate within the fluid temperature range	
Weight	kg (lbs)	0.31 (0.68)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)
Ambient temperature	°C (°F)	-30 (86) and +60 (+140)
Mounting position		unrestricted

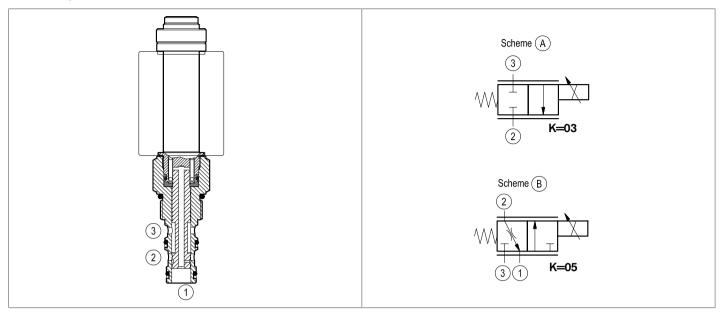
N.B. It is recommended to bleed air carefully before operation.

Туре	Material number
OD920377030100	R934001518
OD920377040100	R934001521
OD920577030100	R934001524
OD920577040100	R934001526





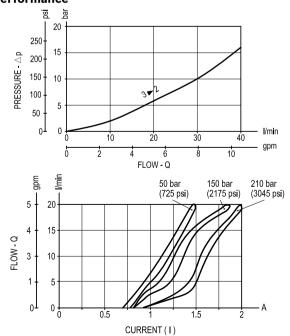
Proportional valves non compensated flow regulators Common cavity, Size 10



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Performance

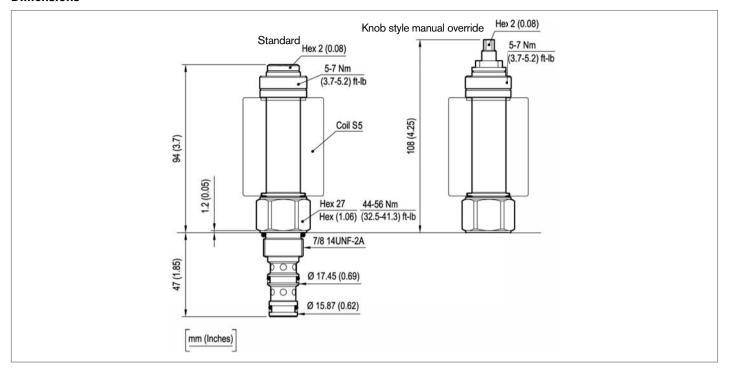


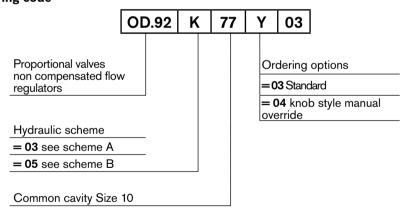
Technical Data

General		
Operating pressure	bar (psi)	210 (3000)
Rated flow	l/min (gpm)	40 (11)
I max(±15%) for 12 V DC coil	A	2
I min(±15%) for 12 V DC coil	Α	0.8
Recommended PWM frequency	Hz	150-180
Internal leakage at 210 bar (3000 psi) with 46 cSt oil	cm³/min (in³/min)	max 180 (11)
Cavity		CA-10A-3N
Coil	S5 (must be ordered separately)	
Minimum voltage required	90% of nominal value	
Testing conditions - Seals	Internal and external seals are designed for applications that operate within the fluid temperature range	
Weight	kg (lbs)	0.31 (0.68)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)
Ambient temperature	°C (°F)	-30 (86) and +60 (+140)
Mounting position		unrestricted
	6 11 1 5	

N.B. It is recommended to bleed air carefully before operation.

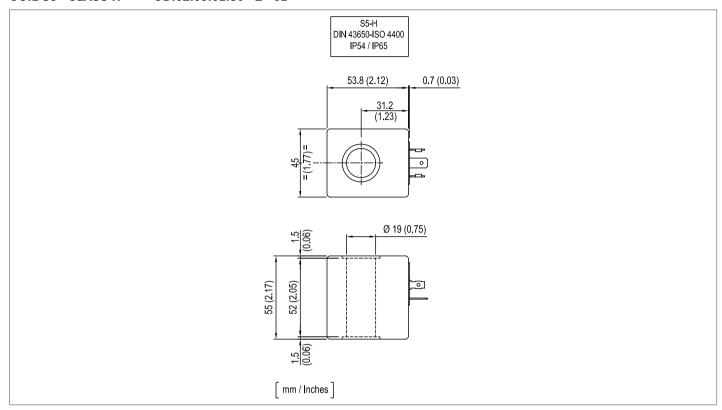
Туре	Material number
OD920377030300	R934001520
OD920377040300	R934001522
OD920577030300	R934001525
OD920577040300	R934001528





Coils - Connectors

COIL S5 - CLASS H OD.02.09.01.30 - Z - 01



Technical Data

General		
Weight	kg (lbs)	0.47 kg (1.04 lbs)
Heat insulation Class F	°C (°F)	+180 (356°)
Ambient temperature	°C (°F)	-30 (86) and +60 (+140)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

Ordering Code

Z	Voltage V	Resistance Ohm (±7%)	Power W	Curren A	t	∆T °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
ОВ	12 DC	6.2	23	1.92	1.41	92-96 (198-205)
ОС	24 DC	24.9	23	0.96	0.71	

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