

Proportional valves pilot operated poppet type,
2-way flow regulator not compensated
Common cavity, Size 10

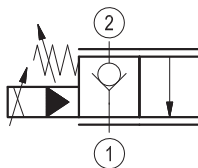
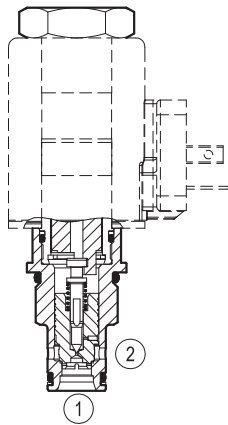
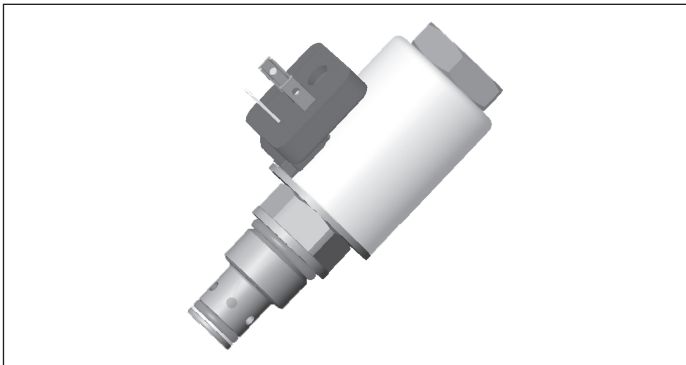
KSVS.1

KSVSR1AA / F - Y - V

RE 18323-73

Edition: 01.2026

Replaces: 10.2020



Technical data

General	
Weight	0.25 kg (0.55 lbs)
Installation position	Any
Ambient temperature range	-20 to 120 °C (-4 to 248 °F)
Salt spray test to DIN 50021	720 h
Hydraulic	
Max. operating pressure port 1, 2	350 bar (5075 psi)
Maximum Δp	350 bar (5075 psi) (250 bar (3625 psi) for optimal metering and flow capacity)
Nominal flow	50 l/min. at 14 bar Δp (13 gpm at 200 psi Δp)
Hysteresis	Less than 7% up to 90% of I-MAX.
Recommended dither frequency (PWM)	100 Hz
Max. internal leakage	10 drops/min. (at $\Delta p=150$ bar; HLP46, $T_{oil} = 40^{\circ}C$)
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)	
Recommended degree of fluid contamination	(NAS 8) / ISO 4406 19/17/14
MTTFD	150 years see RE 18350-51
Cavity ¹⁾	CN-10-01 see 18325-70
Load cycles	2 Mio.
Spare parts	
Cavity seal kit	material no. R961011030
Coil nut	material no. R901440340
Spacer ring	material no. R901168656
Electrical	
Type of voltage	DC voltage
Coil type	GP37 see 18325-90

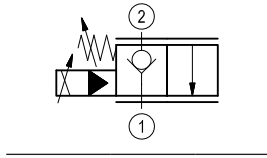
Note: coils must be ordered separately.

¹⁾ The valve fit also CA-10A-2N.

Ordering code

KSVSR1	A	A/	F	Y	V
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Proportional valves pilot operated poppet type
2-way flow regulator not compensated



Common cavity; CA-10A-2N

without manual override **N0**
with manual override **N11**

Seal material: FKM seals

Further types available by request

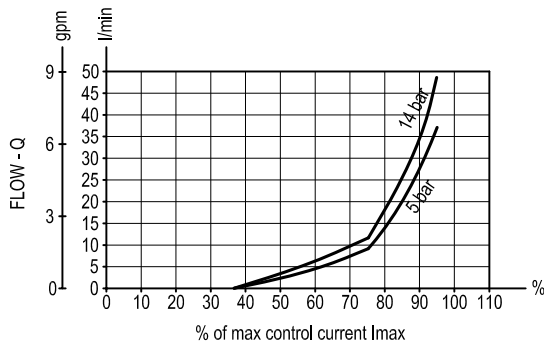
Preferred types

Type	Material number
KSVSR1AA/FN0V	R901394662
KSVSR1AA/FN11V	R901394661

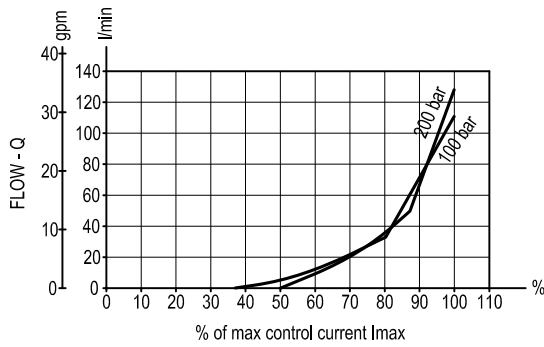
Type	Material number

Characteristic curves

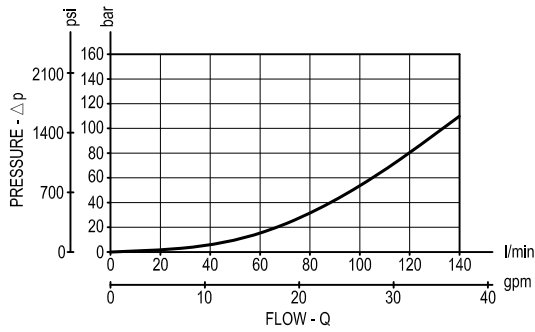
Compensated flow vs % of control current



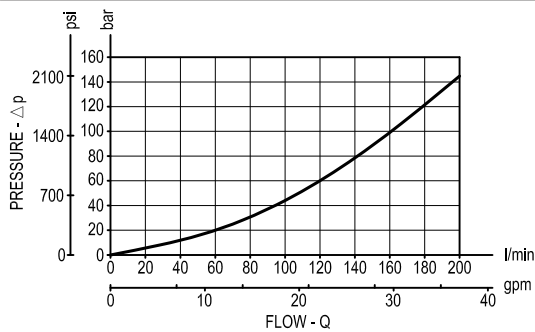
Non compensated flow vs % of control current

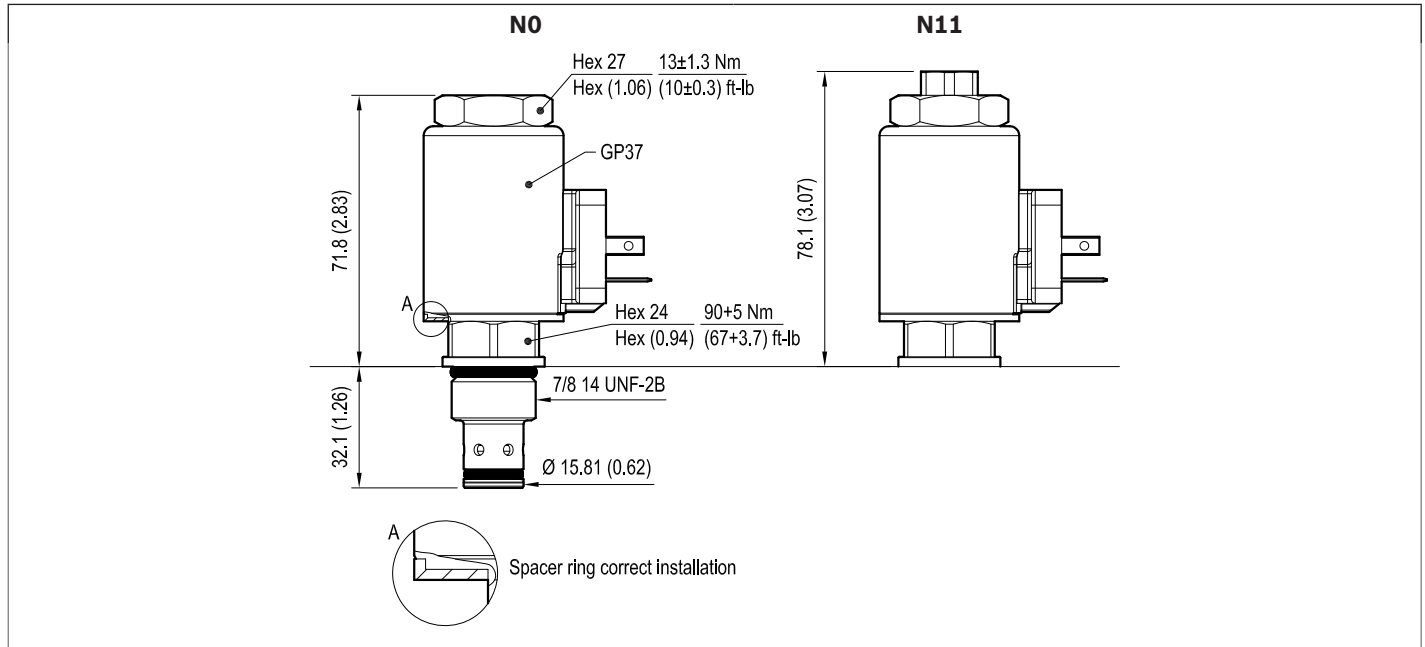


Delta p 2 to 1 at 110% of I_max control current



Delta p 1 to 2



Dimensions▼ **Proportional valves pilot operated poppet type
2-way flow regulator not compensated****Bosch Rexroth Oil Control S.p.A.**

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