

Technical Data

Valve size		06 (D03)	
Max. flow	l/min (GPM)	60 (16)	
Max. operating pressure at ports P, A, B	bar (PSI)	350 (5100)	
Max. operating pressure at ports T	bar (PSI)	210 (3050)	
Pressure drop	bar (PSI)	see Δp -Q characteristics	
Fluid temperature range (NBR)	°C (°F)	-30 ... +70 (-22 ... +158)	
Max. switching frequency	1/h	15 000	
Switching time ON at $v=32$ mm ² /s (156 SUS)	ms	AC: 30 ... 40	DC: 30 ... 50
Switching time OFF at $v=32$ mm ² /s (156 SUS)	ms	AC: 30 ... 70	DC: 10 ... 50
Weight	valve with 1 solenoid	kg (lbs)	
	valve with 2 solenoids	2.52 (5.56) 3.97 (8.75)	
Technical Data - Explosion Proof Solenoid			
Voltage type		AC 50 / 60 Hz	DC
Available nominal voltages U_N	V	110, 230	12, 24, 48, 110
Available nominal input power	W	10, 18	
Supply voltage fluctuations		$U_N \pm 10$ %	
Duty cycle		100 % ED	
Enclosure type of the Solenoid to EN 60529		IP66 / IP68*	
*Test procedure IP68: Pressure 1 m under water, test duration 24 h. The indicated IP protection level is only achieved if the cable is properly mounted.			
Ambient temperature range			
Temperature class / Nominal inputpower	T4-10 W / 18 W	°C (°F)	-30 ... +70/60 (-22 ... +158/140)
	T5-10 W		-30 ... +55 (-22 ... +131)
	T6-10 W		-30 ... +45 (-22 ... +113)
	Datasheet	Type	
General information	HA 0060	products and operating conditions	
Operating Instructions		RPEX3-06_Instructions_multilanguage	
Mounting surface	HA 0019	Size 06	
Subplates	HA 0002		
Spare parts	HA 8010		

Spool Symbols

Type	Symbol	Interposition	Type	Symbol	Interposition	Type	Symbol	Interposition
Z11			R30			Z11		
C11			A51			X30		
H11			Y51			C11		
Y11			C51			H11		
M21			H51			N11		
N41			X51			B71		
J15			Y13			V41		

Manual Override in millimeters (inches)

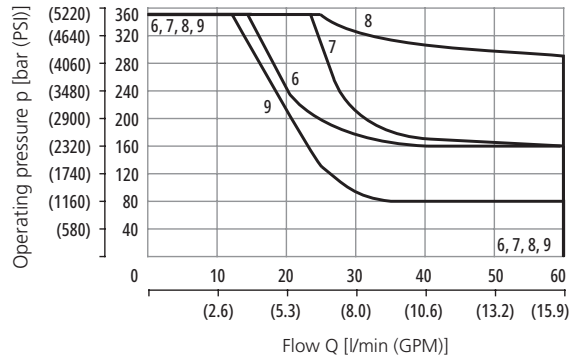
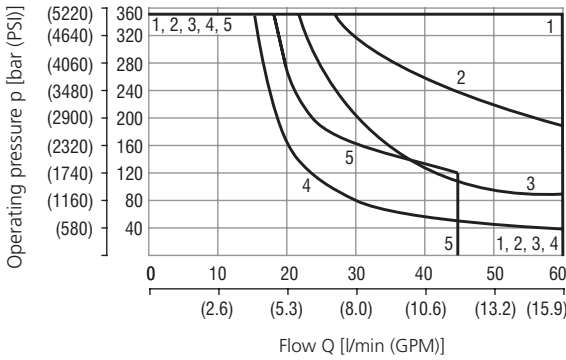
No designation - standard	N7 - detent assembly	N9 - without manual override

In case of solenoid malfunction or power failure, the valve spool can be shifted by manual override under the condition that the pressure in the back line does not exceed 25 bar (363 PSI).

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Operating limits

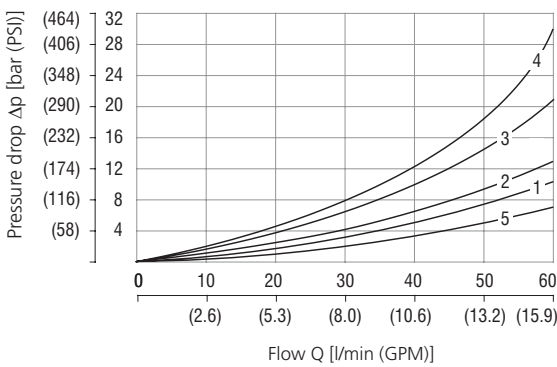
Ambient temperature $70 \text{ }^\circ\text{C}$ (158 $^\circ\text{F}$), Voltage $U_N -10 \%$ (24 V DC), Power $P_N 10 \text{ W}$



1	R30, X30, J15*
2	Z11
3	Y11, N11, V41
4	2H11, B71
5	C11
6	3H11, H51
7	C51
8	M21
9	A51

Operating limits of other than shown versions consult with our technical department. *Spool J15 is available only with Coil B4 (18 W).

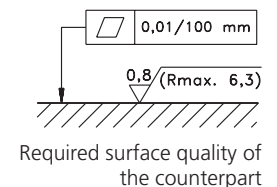
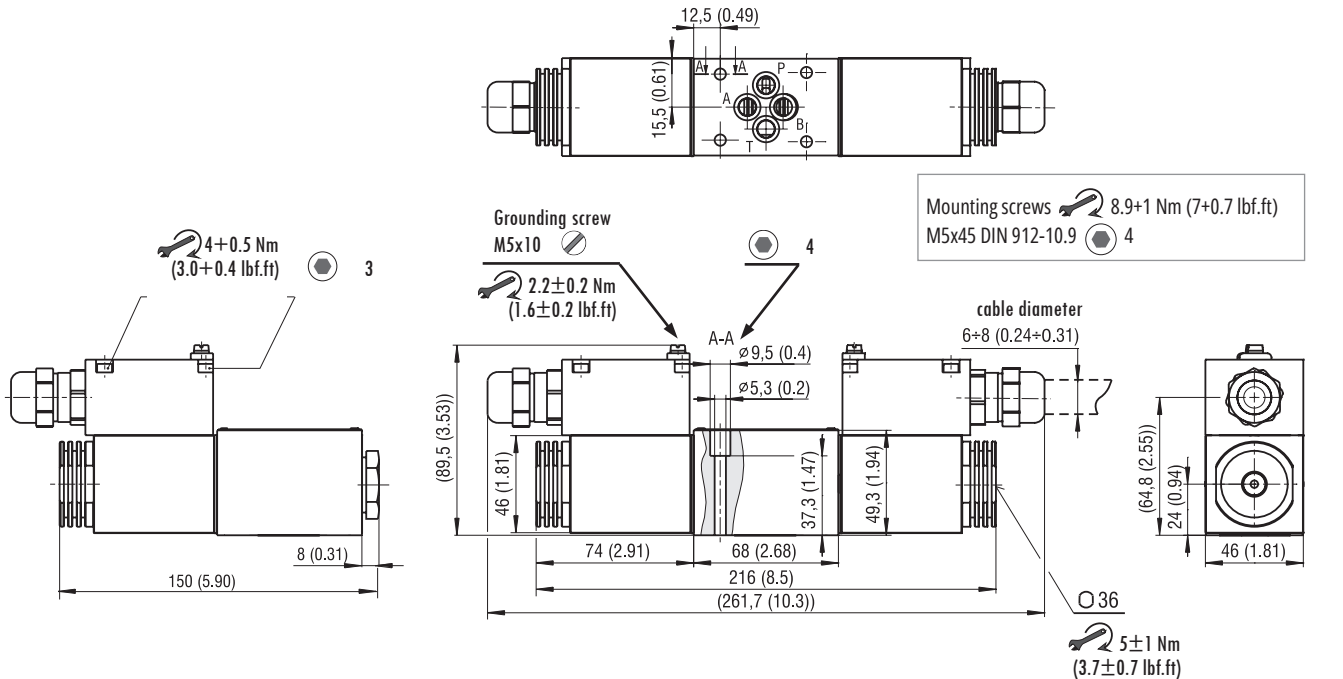
Pressure drop related to flow rate



	P→A	P→B	A→T	B→T	P→T		P→A	P→B	A→T	B→T	P→T
Z11, J15*	1	1	2	2		Y11	1	1	1	1	
C11	3	3	3	4	2	R30	1	1	2	2	
3H11	1	1	1	2	2	X30	1	1	2	2	
B71	1			1		C51	3			4	2
A51	1	1				2H11	1			2	2
H51		1	2		2	M21	1	6	1	1	

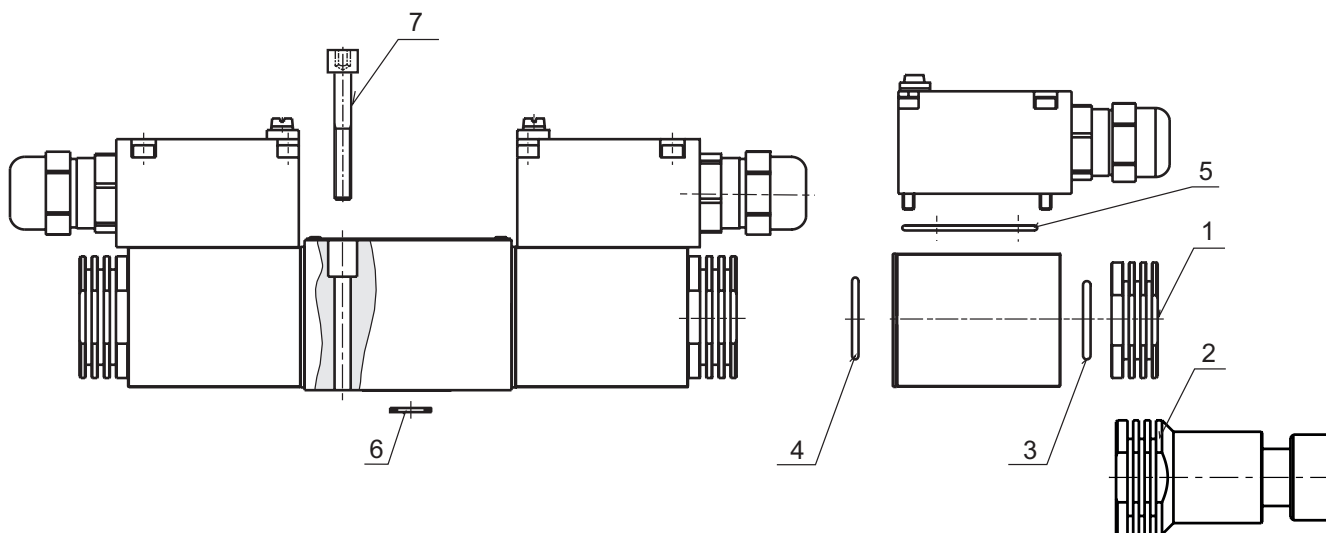
*Spool J15 available only with solenoid B4 (18 W)

Dimensions in millimeters (inches)



SPARE PARTS

Position	Component name	Description	Ordering number
1	Coil nut	Nut	45904300
3	Nut sealing	O-ring 21.89x2.62 VMQ 70 (silicone)	
4	Sealing ring actuating system-coil	O-ring 22x1.5 VMQ 50 (silicone)	
2	Coil nut with manual override N7	Nut	45904200
3	Nut sealing	O-ring 21.89x2.62 VMQ 70 (silicone)	
4	Sealing ring actuating system-coil	O-ring 22x1.5 VMQ 50 (silicone)	
5	Sealing ring of terminal box cover	O-ring 46x2 VMQ (silicone)	34950700
6	Set of seals	4x Square ring 9.25x1.68 NBR	15845200
7	Valve mounting screws	4x M5x45 DIN 912 10.9	15845100



Information for Customers

- › Before installing the product, please read the Product Instructions for Use, which is available in full on the manufacturer's website (www.argo-hytos.com) near the data sheet. Please also pay attention to the chapter describing the target user group, their professional qualifications and medical fitness to install, use and repair the product.
- › The product may only be used in the zones indicated, otherwise there is a risk of initiating an explosion.

Area of application

Equipment - group I – MINES	Equipment - group II (IIG) - GAS	Equipment - group III (IID) - DUST
Category M1 – NO	Zone 0 - NO	Zone 20 - NO
Category M2 (the device remains switched off)	Zone 1 Zone 2	Zone 21 Zone 22
	IIA (propane) IIB (ethylene) IIC (hydrogen)	IIA (combustible particles) IIIB (non-conductive dust) IIIC (conductive dust)

- › For use in the temperature class, the maximum ambient temperature (see technical data table) must be observed for the coil input (10/18 W), the maximum working fluid temperature of 70 °C and the nominal coil supply voltage. The 18 W coil valve may only be used in temperature class T4 (135 °C).
- › The user must ensure free heat dissipation from the valve surface. The surface must not be covered, exposed to a heat source or direct sunlight. When mounting the valves in groups, observe the minimum distances specified in the Instructions for Use.
- › A certified cable of temperature insulation class corresponding to the application temperature class must be used to the electrical connection of coil with DC supplying.
- › The rectifier and terminal block of coils with AC supplying are protected with encapsulation. Therefore, these coils are only supplied with mounted cable. No modification to the connected cable are allowed except for shortening the cable to a suitable length and fitting a connector to the free end.
- › The valve surface must be grounded using the screw on the terminal box cover of coil to prevent electrostatic discharge.
- › It is forbidden to install, dismantle or repair the product in an explosive atmosphere. Repairs to the product shall be carried out by the manufacturer, except for repairs permitted by the user under the conditions specified in the Instructions for Use.
- › Attention! The surface of the coil and the valve gets hot during operation. There is a risk of skin burns if touched.