



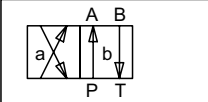
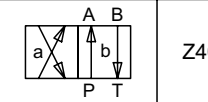
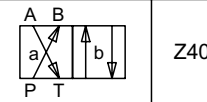
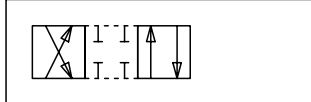
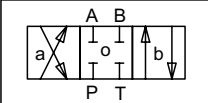
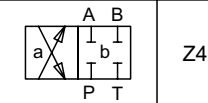
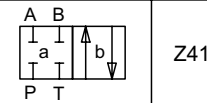
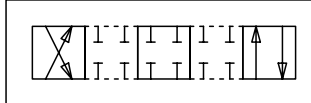
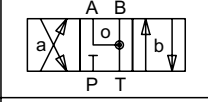
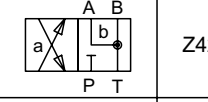
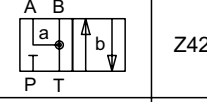
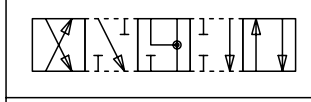
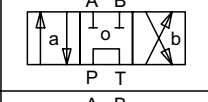
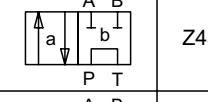
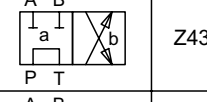
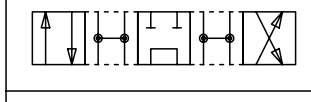
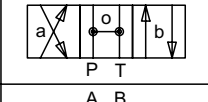
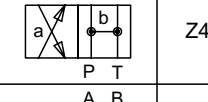
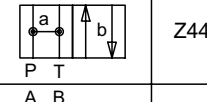
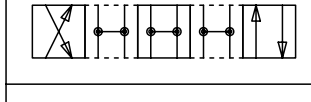
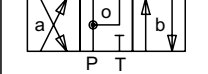
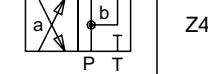
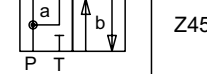

**ELECTRICAL CONTROL**

Construction	Solenoid, wet pin push type, pressure tight
Standard-nominal voltage	$U_N = 24$ VDC $U_N = 115$ VAC, $U_N = 230$ VAC DC wired with VDR AC = 50 bis 60 Hz $\pm 2\%$ ; with half wave rectifier and recovery diode
Voltage tolerance	$\pm 10\%$ of rated voltage
Protection class	IP 65 acc. to EN 60529
Relative duty factor	100% DF
Switching cycles	12000/h
Operating life	$10^7$ (number of switching cycles, theoretically)
Connection/Power supply	Through cable entry for cable diameter 11...14 mm
Temperature class:	(acc. to EN 50014)
Execution T4	T1...T4
Execution T6	T1...T6
Nominal power:	
Execution T4	22 W (DC), 35 VA (AC)
Execution T6	7 W (DC), 12 VA (AC)

**START-UP**

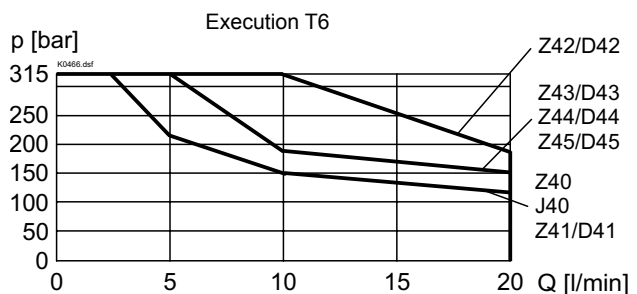
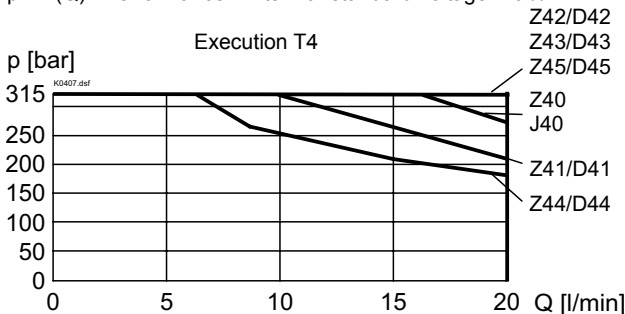
Information concerning the installation and commissioning is contained in the operating instructions supplied together with the solenoid coil.

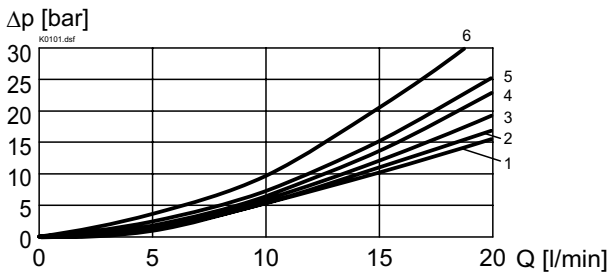
**TYPE LIST / DESIGNATION OF SYMBOLS**

4/2-way valve impulse	4/2-way valve with spring reset operation A-side	operation B-side	Transitional functions
 J40	 Z40a	 Z40b	
4/3-way valve spring centred			
 D41	 Z41a	 Z41b	
 D42	 Z42a	 Z42b	
 D43	 Z43a	 Z43b	
 D44	 Z44a	 Z44b	
 D45	 Z45a	 Z45b	

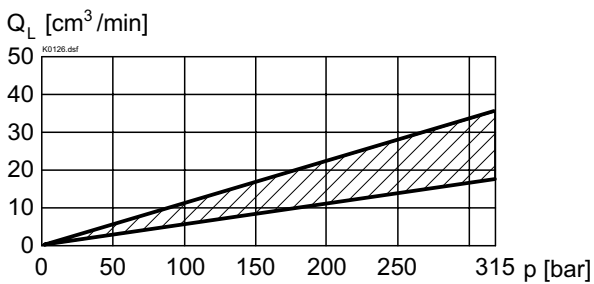

**CHARACTERISTICS** Oil viscosity  $\nu = 30$  mm<sup>2</sup>/s

$p = f(Q)$  Performance limits with standard voltage -10%



$\Delta p = f(Q)$  Pressure drop volume flow characteristics


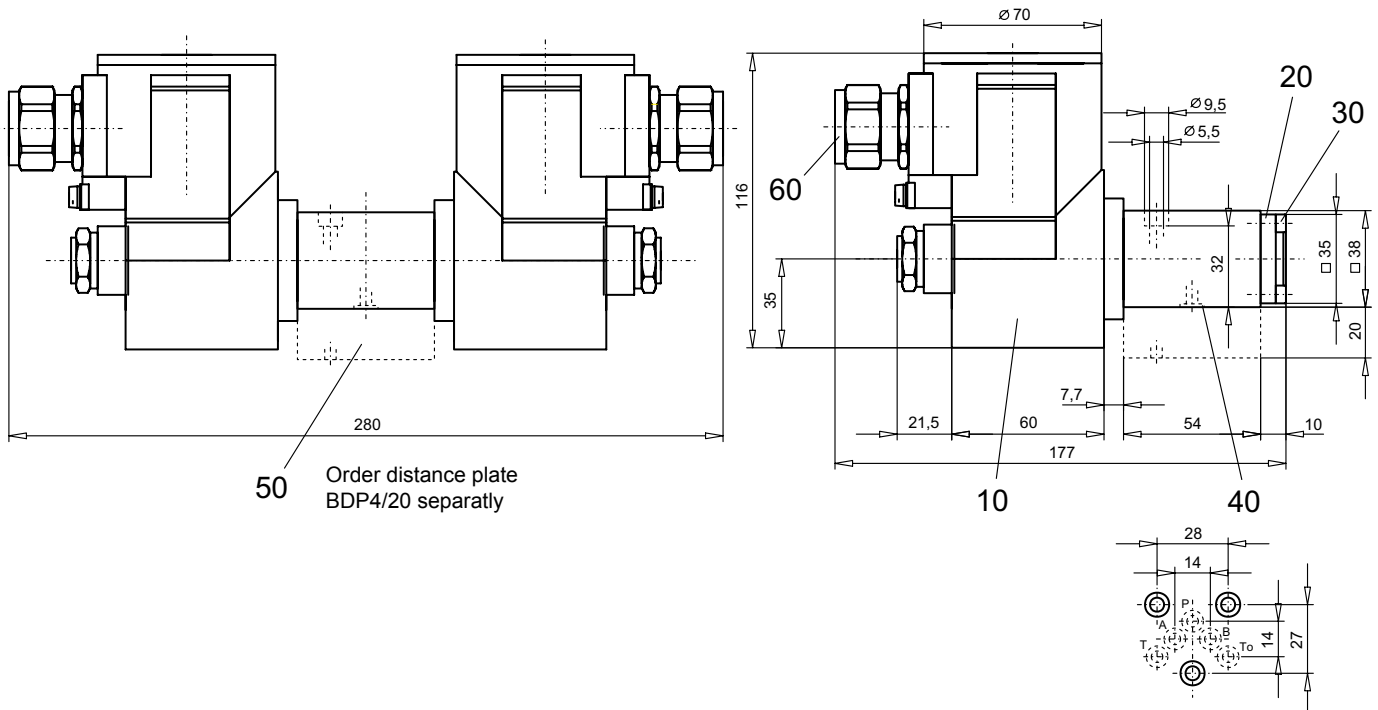
Symbol	Pressure drop Curve no.	Volume flow direction				
		P-A	P-B	P-T	A-T	B-T
Z40/J40	5	5	-	2	2	
Z41/D41	5	5	-	2	2	
Z42/D42	5	5	-	1	1	
Z43/D43	4	4	6	2	2	
Z44/D44	4	4	3	2	2	
Z45/D45	4	4	-	2	2	

 $Q_L = f(p)$  Leakage volume flow characteristics per control edge

 Envelop curve for spool J40/Z40/D41/D42/D44/D45

**DIMENSIONS**

 4/3-way valve (spring centred)  
 4/2-way valve (impulse)

4/2-way valve (spring offset)


**PARTS LIST**

Position	Article	Description
10	207.5 ...	Coil type EExd
20	57.4202	Cover
30	246.1113	Socket head cap screw M4x12 DIN 912
40	160.2052	O-ring ID 5,28x1,78
50	173.1451	Distance plate BDP4/20
60	111.1080	Cable entry brass M20

**ACCESSORIES**

 Threaded connecting plates, multi-flange subplates and longitudinal stacking system see reg. 2.9

Technical explanation see data sheet 1.0-100