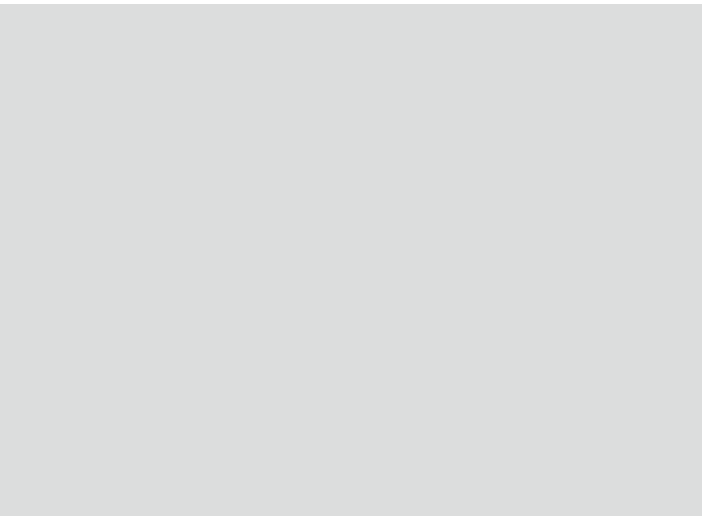


Function and configuration

Type WE valves are solenoid operated directional spool valves. They control the start, stop and direction of flow.

The directional control valves consist of housing (1), one or two solenoids (2), the control spool (3), and one or two return springs (4).

In the de-energized condition the control spool (3) is held in the neutral or initial position by means of return springs (4) (except for impulse spools).

The control spool (3) is actuated via wet pin solenoids (2).

To ensure proper operation, care must be taken that the pressure chamber of the solenoid is filled with oil.

The control spool(3) is moved to the expected position by solenoid(2) and pushing rod(5). This gives free-flow from P to A and B to T or P to B and A to T.

When solenoid (2) is de-energized, the control spool (3) is returned to its initial position by means of the return springs (4).

The solenoids may also control the control spool (3) by an optional override button(6) under the

Ordering code

Note:

/' 15 Bcsrqaf am l l camp _qqc k `jw
M l jw dmp /OT l b 02T,

Technical data

Dgvg l e n m q r g m l		Mnrgm l _j
Cl t g m l k c l r r c k n c p _ r s p c p _ l e c		+1. rm) 3. &L@P qc _j'
		+0. rm) 3. &D I K qc _j'
Ucqe fr	Qg l e j c q m j c l m g b i e	/,3
	Bms ` j c q m j c l m g b q i e	0,.
K _v, m n c p _ r g l e n p c q q s p c	Nm p r ? * @ N ` _ p	13.
	Nm p r R ` _ p	0 / . &BA* / 4. &?A* u f c l r f c m n c p _ r g l e n p c q q s p c v a c c b r f c n c p k g q q m l t _ j s c * n m p r R k s q r ` c s q c b _ q b p _ g l n m p r d m p q n m m j q w k ` m j ? _ l b @
K _v, m u + p _ r c J - k g l		6. &BA* 4. &?A'
Dj m u a p m q q q c a r g m l k k ⁰		d m p q w k ` m j O 4 # m d l m k g l _ j a p m q q q c a r g m l
& q u g r a f g l e l c s r p _ j n m q r g m l ' k k ⁰		d m p q w k ` m j U 1 # m d l m k g l _ j a p m q q q c a r g m l
Dj s g b		K g l c p _ j m j q s g r _ ` j c d m p L @ P _ l b D I K q c _ j
		N f m q n f _ r c c q r c p d m p D I K q c _ j
Dj s g b r c k n c p _ r s p c p _ l e c		+1. rm) 6. &L@P qc _j'
		+0. rm) 6. &D I K qc _j'
T g a m q r w p _ l e c k k ⁰ - q		0,6 r m 3. .
B c e p c c m d a m l r _ k g l _ r g m l		K _v g k s k n c p k g q q ` j c b c e p c c m d _ s g b a m l r _ k g l _ r g m l 8 A j _ q q 7, L ? Q / 416 m p 0. - / 6 - / 3 * &Q M 22. 4

Electric data

Rwnc md tmjr_ec		BA	?A
Sq_ ` jc tmjr_ec T		/ 0° 02' 06" * 26° 74' // . ° 0. 3° 00.	/ / . * / 05° 00.
Ncp k g q q ` jc tmjr_ec & b c t g _ r g m l ' #		Qr _ l b _ p b q m j c l m g b 8) / . + / 3	
Nm u c p a m l q s k n r g m l U		Qr _ l b _ p b q m j c l m g b 8 1 .	
F m j b g l e n m u c p T ?		+	3.
K _ i g l e a _ n _ a g r w T ?		+	00.
B s r w		A m l r g l s m s q u m p i g l e	
Q u g r a f g l e r g k c r m & Q M 42. 1	ML	k q	03 r m 23
	MDD	k q	/ . r m 03
Q u g r a f c b d p c o s c l a w r g k c q - f		rm / 3. . .	rm 50. . .
Rwnc md n p m r c a r g m l r m B & L 2. . 3.		{N43 &X2* X3J njse* {N45 &I 5 Bcsrqaf'	
K _v, a m j q r c k n c p _ r s p c		) / 3.	) / 6.

Caution: U f c l a m l l c a r g l e u g p c q * n p m n c p j w a m l l c a r r f c N C a m l b s a r m p & N C ' ,
& D m p m r f c p r w n c t m j r _ e c n j c _ q c a m l q s j r s q , '

Performance limits (Measured at $p_{oil}=40 \pm 5$, using HLP46)

The specified switching performance limits are valid with two directions of flow (e.g. from P to A and simultaneous return flow from B to T).

Due to the flow forces acting within the valve, the permissible switching performance limit can be significantly lower with only one direction of flow (e.g. from P to A, with port B being closed)!

The switching performance limit was determined with the solenoid at operating temperature, at 15 % under-voltage and without tank pre-loading.

Solenoid DC		Solenoid AC-50Hz		Solenoid AC-60Hz	
Curve	Spool symbol	Curve	Spool symbol	Curve	Spool symbol
1	A, B ₁	11	A, B ₁	19	A, B ₁
2	V	12	V	20	V
3	A, B	13	A, B	21	A, B
4	F, P	14	F, P	22	

Notes: ¹⁾ With manual override; ²⁾ Return flow from actuator to tank.

Solenoid DC	
Curve	Solenoid voltage(V)
1 to 10	12, 24, 48, 96, 205

Solenoid AC		
Curve	Solenoid voltage	
11 to 18	W110	110V, 50Hz
	W127	127V, 50Hz
	W230	230V, 50Hz

