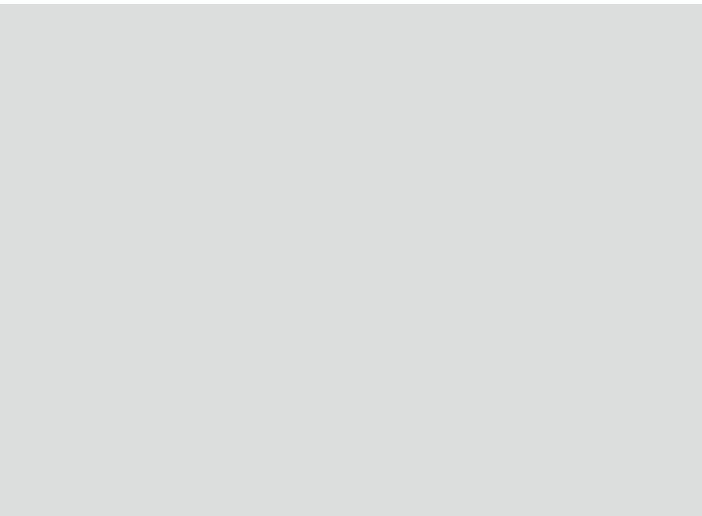


Function and configuration

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

	UC	4	+ J4V				
1 u_wq ; 1 &Dmp qnmj ? _lb @' 2 u_wq ; 2				Dsprfcp bcr_jqj gl ajc_p rcvr			
Bpgcargml_j_tjtc ugrf ucr ng l qmjclmgbcq				Lm ambc ; Ugrfmsr jma_rgle fmjc -4. ; Ugrf jma_rgle fmjc -40; Ugrf jma_rgle ng l fmjc QM 6530+1Ö6+Qr			
Lm kg l_j qpxc 4 ; 4				Lm ambc ; L@P qc_jq T ; DIK qc_jq			
Qw k`mqj c,e, A* C cra,				Lm ambc ;			
Qcpqcq J4. rm J47 ; J4V & J4. rm J47s laf_lectb glqr_jj_rgm l _lb am l l cargml bgk clqgm lq'							
Ugrf qnpg l e pc r s p l ; Lm ambc Ugrfmsr qnpg l e pc r s p l ; M Ugrfmsr qnpg l e pc r s p l*_lb ugrf bcrcl r ; MD							
Qr_ lb_pb qmjclmgbc ; C							
02T BA ; E02 00.T?A3.-4. Fx ; U00. Njsepcarg_a_rgm l 00.T ; U00.P //.T?A3.-4. Fx ; U//. Njsepcarg_a_rgm l //.T ; U//.P Mrfcp tmjr_ec qcc rcaflga_jb_r_				X2 ; qos_pc njseq &l mr_nnjga`jc dmp r f c l r c e c p' X3J ; Ugrf jgefr _lb n p m r c a r f c b g m b c q I2 ; B&L2143 qma i c r q u g r f m s r n j s e q I5 ; Bcsrqaf am l l c a r m p _q q c k`jw` u g r f m s r n j s e q ' BJ ; Aclrp_jam l l c a r m l u g r f J C B_j_k n &K00Ö/,3 gl r c p d _a c'			
Ugrf k_ls_jmtcpqbc`srrml ; L				Note: /' I5 Bcsrqaf am l l c a r m p _q q c k`jw M l j w d m p / O T _l b 02T,			

Technical data

Dgvg l e n m q r g m l		M n r g m l _ j
C l t g m l k c l r r c k n c p _ r s p c p _ l e c		+1. r m) 3. & L @ P q c _ j'
		+0. r m) 3. & D I K q c _ j'
U c q e f r	Q g l e j c q m j c l m g b i e	/, 3
	B m s ` 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	N m p r ? * @ N ` _ p	13. .
	N m p r R ` _ p	0 / . & B A * 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. & B A * 4. & ? A'
D j m u a p m q q q c a r g m l k k °		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 °		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
D j 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
D j s g b r c k n c p _ r s p c p _ l e c		+1. r m) 6. & L @ P q c _ j'
		+0. r m) 6. & D I K q c _ j'
T g a m q r w p _ l e c k k ° - 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 g ` 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 * 6 Q M 22. 4

Electric data

R w n c m d t m j r _ e c		BA	? A
S q _ ` j c t m j r _ e c T		/ 0 ° 02 ° 06 ' * 26 ° 74 ' / / . ° 0. 3 ° 00. .	/ / . * / 05 ° 00. .
N c p k g q q g ` j c t m j r _ e c & b c t g _ r g m l ' #		Q r _ l b _ p b q m j c l m g b 8) / . + / 3	
N m u c p a m l q s k n r g m l U		Q r _ 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 6 Q M 42. 1	ML k q	03 r m 23	/ . r m 0. .
	MDD k q	/ . r m 03	/ 3 r m 2. .
Q u g r a f c b d p c o s c l a w r g k c q - f		r m / 3. . .	r m 50. . .
R w n c m d n p m r c a r g m l r m B 6 L 2. . 3. .		6 N 43 & X 2 * X 3 J n j s e * 6 N 45 & l 5 B c s r q a f '	
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

