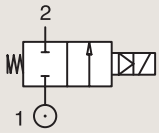
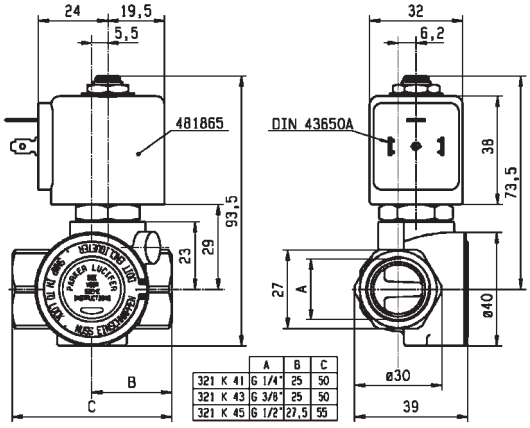
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 [124]	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 [124]	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 [124]	4270	486265	14	14	2.0	3523
	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	E321K10	4270	481000	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	321K31	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	321K31	8993	488980	2	2.5	1.1	7093
	12	30	1.8	2150	0.3	10	10	-10	100	FKM	321K3106	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	FKM	321K3106	8993	488980	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4156 [3]	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4156 [3]	4270	481000	8	8	2.1/3.0	7094

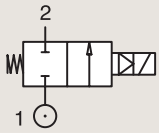
Notes:
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override
4. With 4 position selector for controlled closure rate



Drawing 7094

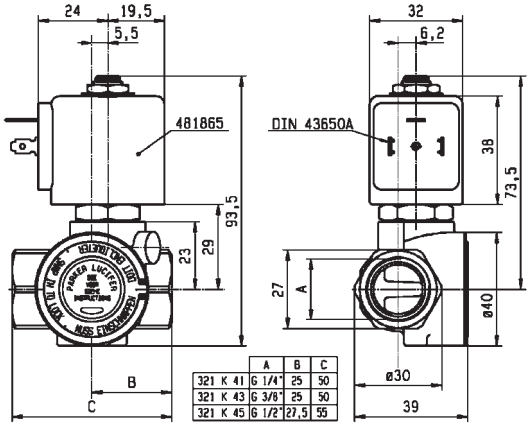
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 [124]	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 [124]	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 [124]	4270	486265	14	14	2.0	3521
	11	36	2.16	2500	0.2	10	4	-10	100	NBR	E321K13	4270	481000	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K13	4270	486265	14	14	2.0	3429
	11	36	2.16	2500	0.2	10	-	-10	100	NBR	E321K1314	2995	483466	8-11	-	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K1314	4270	486265	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	321K33	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	321K33	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	10	10	-10	100	FKM	321K3306 [1]	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	FKM	321K3306 [1]	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4356 [3]	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4356 [3]	4270	481000	8	8	2.1/3.0	7094

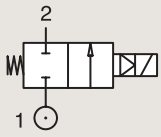
Notes:
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override
4. With 4 position selector for controlled closure rate



Drawing 7094

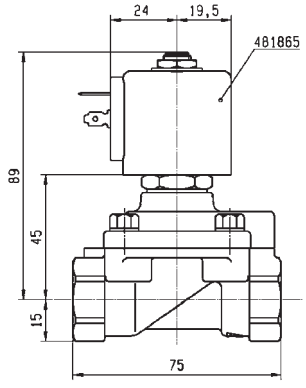
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

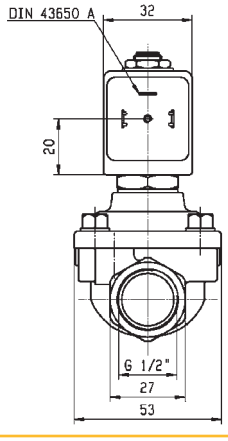
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	E321K15	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	FKM	E321K25	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	4	4	-10	65	FKM	E321K25	-	492070	9	8	2.0	3427
	12	50	3	3400	0.3	12	12	-10	100	NBR	321K35	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	NBR	321K35	8993	488980	2	2.5	1.1	7093
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K3506	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	FKM	321K3506	8993	488980	2	2.5	1.1	7093
	15	60	3.6	3150	0.3	-	10	-10	55	NBR	321H1590	2995	48358001	-	0.5-3	7.0/8.0	3978
	15	60	3.6	3150	0.3	-	10	-10	80	NBR	321H1590	-	495910	-	0.3-1.2	7.0/8.0	3978
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 [2]	2995	481865	8	9	2.1	3522
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 [2]	4270	481000	8	8	2.1	3522
	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 [124]	2995	481865	8	9	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15 [124]	4270	481000	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15 [124]	4270	486265	14	14	2.0	3522

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve with manual override
4.With 4 position selector for controlled closure rate





Drawing 3522

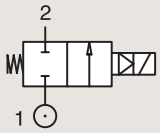
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

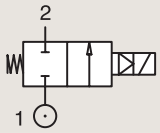
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	15	60	3.6	3550	1.5	40	40	-10	50	PUR	321H36	2995	481865	8	9	2.1	3696
	15	60	3.6	3550	1.5	40	40	-10	50	PUR	321H36	4270	481000	8	8	2.1	3696
	18	100	6	9400	0.3	10	10	-10	100	NBR	321K36	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	321K36	8993	488980	2	2.5	1.1	7097
	18	100	6	9400	0.3	10	10	-10	100	FKM	321K3606	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	FKM	321K3606	8993	488980	2	2.5	1.1	7097
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	4270	481000	8	8	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	E321G3606	2995	481865	8	9	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	E321G3606	4270	481000	8	8	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	E321G3606	4270	486265	14	14	2.0/14.1	3442

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

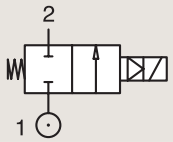


Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
	mm	Kv l/min	KV m³/h	Qn m³/h	bar	AC bar	DC bar	°C	°C						AC W	DC W		
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	321K37	8993	481180		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	321K37	8993	488980		2	2.5	1.1	7098
	18	110	6.6	10150	0.3	10	10	-10	100	FKM	321K3706	8993	481180		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	FKM	321K3706	8993	488980		2	2.5	1.1	7098
	25	185	11.1	14100	0.3	-	10	-10	55	NBR	321G3790 [1]	2995	48358001	*	-	0.5-3	7.0/8.0	3442
	25	185	11.1	14100	0.3	-	10	-10	75	NBR	321G3790 [1]	-	495910	*	-	0.3-1.2	7.0/8.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	2995	481865		8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	4270	481000		8	8	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	E321G3706	2995	481865		8	9	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	E321G3706	4270	481000		8	8	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	E321G3706	4270	486265		14	14	2.0/14.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	2995	481865		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	4270	481000		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	E321G3806	2995	481865		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	E321G3806	4270	481000		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	E321G3806	4270	486265		14	14	2.0	3442

Notes:
1.Pilot seat disc in FKM

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
1 1/2"	40	425	25.5	31500	0.5	-	10	-10	55	NBR	321G3990	2995	48358001	*	-	0.5-3	7.0/8.0	8113
	40	425	25.5	31500	0.5	-	10	-10	75	NBR	321G3990	-	495910	*	-	0.3-1.2	7.0/8.0	8113
	40	420	25.2	31500	0.3	16	7	-10	100	NBR	E321G39 [1]	2995	481865		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8	-10	100	NBR	E321G39 [1]	4270	481000		8	8	2.0	3442
	40	420	25,2	31500	0,3	16	16	-10	100	NBR	E321G39 [1]	4270	486265		14	14	2.0	3442
	40	420	25.2	31500	0.3	16	7	-10	100	FKM	E321G3906	2995	481865		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8	-10	120	FKM	E321G3906	4270	481000		8	8	2.0	3442
	40	420	25.2	31500	0.3	16	16	-10	100	FKM	E321G3906	4270	486265		14	14	2.0	3442
2"	40	540	32.4	38100	0.5	-	10	-10	55	FKM	321G4090	2995	48358001	*	-	0.5-3	7.0/8.0	8113
	40	540	32.4	38100	0.5	-	10	-10	75	FKM	321G4090	-	495910	*	-	0.3-1.2	7.0/8.0	8113
	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G40 [1]	2995	481865		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8	-10	100	NBR	E321G40 [1]	4270	481000		8	8	2.0	3442
	40	540	32,4	40000	0,3	16	16	-10	100	NBR	E321G40 [1]	4270	486265		14	14	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	100	FKM	E321G4006	2995	481865		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8	-10	120	FKM	E321G4006	4270	481000		8	8	2.0	3442
	40	540	32.4	40000	0.3	16	16	-10	120	FKM	E321G4006	4270	486265		14	14	2.0	3442

Notes:
1.Pilot seat disc in synthetic Ruby

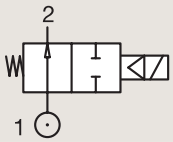
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	15	53.3	3.2	3550	1.5	40	40	-10	50	PUR	322H36 $_{12}$	2995	481865	8	9	2.1	7570
	15	53.3	3.2	3550	1.5	40	40	-10	50	PUR	322H36 $_{12}$	4270	481000	8	8	2.1	7570
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	322G3606	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	322G3606	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	322G3706	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	322G3706	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	4270	481000	8	8	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	322G3806	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	322G3806	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	4270	481000	8	8	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	FKM	322G4006	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	120	FKM	322G4006	4270	481000	8	8	2.1	3442

Notes:
1.Minimum pressure differential = 1.5 bar for opening and 0.3 bar for closing
2.Valve only compatible with air and neutral gases

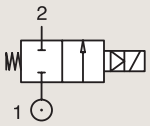
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	13	50	3	-	0.1	10	10	-10	140	EPDM	443778W[1]	7321BIH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443776W	7321BIN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443777W[2]	7321BIN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444492W	7321BIV00	481865	8	9	2.0	028
1/2"	13	50	3	-	0.1	10	10	-10	140	EPDM	443781W[1]	7321BAH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443779W	7321BAN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443780W[2]	7321BAN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444494W	7321BAV00	481865	8	9	2.0	028
3/4"	20	140	8.4	-	0.1	10	10	-10	140	EPDM	443785W[1]	7321BCH00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	90	NBR	443782W	7321BCN00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	10	10	-10	90	NBR	443783W[2]	7321BCN01	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444497W	7321BCV00	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	140	EPDM	443789W[1]	7321BDH00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	90	NBR	443786W	7321BDN00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	10	10	-10	90	NBR	443787W[2]	7321BDN01	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	140	FKM	443804W	7321BDV00	481865	8	9	2.0	057

Notes:
1.Maximum pressure for steam: 4 Bar (140°C)
2.With manual override
Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

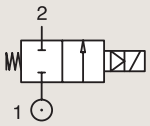
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	443793W$_1$	7321BEH00	481865	8	9	2.0	058
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443790W	7321BEN00	481865	8	9	2.0	058
	35	420	25.2	-	0.1	5	5	-10	90	NBR	443791W$_2$	7321BEN01	481865	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	443797W$_1$	7321BFH00	481865	8	9	2.0	058
	40	500	30	-	0.1	10	10	-10	90	NBR	443794W	7321BFN00	481865	8	9	2.0	058
	40	500	30	-	0.1	5	5	-10	90	NBR	443795W$_2$	7321BFN01	481865	8	9	2.0	058
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	443801W$_1$	7321BGH00	481865	8	9	2.0	058
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443798W	7321BGN00	481865	8	9	2.0	058
	50	620	37.2	-	0.1	5	5	-10	90	NBR	443799W$_2$	7321BGN01	481865	8	9	2.0	058

Notes:
1.Maximum pressure for steam: 4 Bar (140°C)
2.With manual override
Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

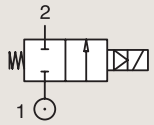
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	E321K10	4270	481000	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	321K31	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	321K31	8993	488980	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4106	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4106	4270	481000	8	8	2.1/3.0	7094
3/8"	11	36	2.16	2500	0.2	10	4	-10	100	NBR	E321K13	4270	481000	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K13	4270	486265	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	321K33	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	321K33	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4306	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4306	4270	481000	8	8	2.1/3.0	7094

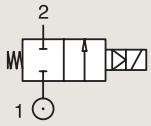
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	E321K15	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	FKM	E321K25	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	4	4	-10	65	FKM	E321K25	-	492070	9	8	2.0	3427
	12	50	3	3400	0.3	10	10	-10	100	NBR	321K35	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	NBR	321K35	8993	488980	2	2.5	1.1	7093
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4506	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4506	4270	481000	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4556 [1]	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556 [1]	4270	481000	8	8	2.1/3.0	7094

Notes:
1.With manual override

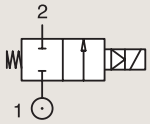
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	18	100	6	9400	0.3	10	10	-10	100	NBR	321K36	8993	481180	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	321K36	8993	488980	2	2.5	1.1	7097
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4606	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4606	4270	481000	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4656 [1]	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4656 [1]	4270	481000	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	4270	481000	8	8	2.0	3442

Notes:
1.With manual override

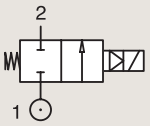
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	321K37	8993	481180	4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	321K37	8993	488980	2	2.5	1.1	7098
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4706	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4706	4270	481000	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4756 [2]	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4756 [2]	4270	481000	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	2995	481865	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	4270	481000	8	8	2.0	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	2995	481865	8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	4270	481000	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	NBR	E321G39 [1]	2995	481865	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	E321G39 [1]	4270	481000	8	8	2.0	3442
	40	420	25,2	31500	0,3	16	16	-10	100	NBR	E321G39 [1]	4270	486265	14	14	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G40 [1]	2995	481865	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	E321G40 [1]	4270	481000	8	8	2.0	3442
	40	540	32,4	40000	0,3	16	16	-10	100	NBR	E321G40 [1]	4270	486265	14	14	2.0	3442

Notes:
1.Pilot seat disc in synthetic Ruby
2.With manual override

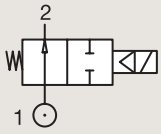
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

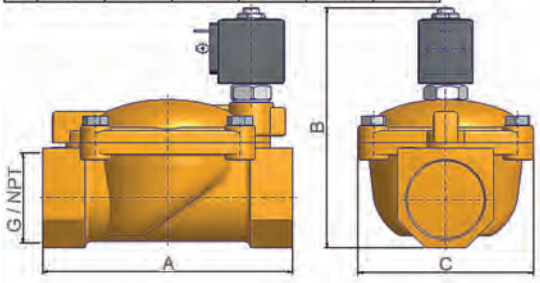
NORMALLY OPEN

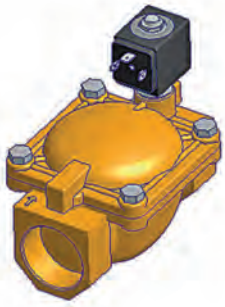


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	13	50	3	-	0.1	10	10	-10	140	EPDM	444600W	7322BIH00	481865	8	9	2.0	060
3/8"	13	50	3	-	0.1	20	20	-10	90	NBR	443805W	7322BIN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444499W	7322BIV00	481865	8	9	2.0	060
	13	50	3	-	0.1	10	10	-10	140	EPDM	444601W	7322BAH00	481865	8	9	2.0	060
1/2"	13	50	3	-	0.1	20	20	-10	90	NBR	443806W	7322BAN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444500W	7322BAV00	481865	8	9	2.0	060
	20	140	8.4	-	0.1	10	10	-10	140	EPDM	444602W	7322BCH00	481865	8	9	2.0	061
3/4"	20	140	8.4	-	0.1	20	20	-10	90	NBR	443807W	7322BCN00	481865	8	9	2.0	061
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444501W	7322BCV00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	10	10	-10	140	EPDM	444603W	7322BDH00	481865	8	9	2.0	061
1"	25	160	9.6	-	0.1	20	20	-10	90	NBR	443808W	7322BDN00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	20	20	-10	140	FKM	444502W	7322BDV00	481865	8	9	2.0	061
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	444576W	7322BEH00	481865	8	9	2.0	062
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443809W	7322BEN00	481865	8	9	2.0	062
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	444604W	7322BFH00	481865	8	9	2.0	062
	40	500	30	-	0.1	10	10	-10	90	NBR	443810W	7322BFN00	481865	8	9	2.0	062
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	444605W	7322BGH00	481865	8	9	2.0	062
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443811W	7322BGN00	481865	8	9	2.0	062
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	444513W	7322BLN06	481865	8	9	2.0	063
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	444503W	7322BMN06	481865	8	9	2.0	063

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1-1/4"	145	5.70	144.5	5.68	102	4.01
1-1/2"	145	--	134	--	102	--
2"	173	--	148	--	118	--





Drawing 062

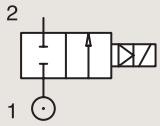
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/4"	20	140	8.4	-	0.1	10	10	-10	90	NBR	443784W [1]	7321BCN02	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	90	NBR	443788W [1]	7321BDN02	481865	8	9	2.0	057
1 1/4"	35	420	25.2	-	0.1	5	5	-10	90	NBR	443792W [1]	7321BEN02	481865	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	5	5	-10	90	NBR	443796W [1]	7321BFN02	481865	8	9	2.0	058
2"	50	620	37.2	-	0.1	5	5	-10	90	NBR	443800W [1]	7321BGN02	481865	8	9	2.0	058
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	443802W [1]	7321BLN02	481865	8	9	2.0	059
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	443803W [1]	7321BMN02	481865	8	9	2.0	059

Notes:
1.With manual override

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

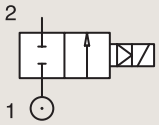
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4106	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4106	4270	481000	8	8	2.1/3.0	7094
3/8"	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4306	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4306	4270	481000	8	8	2.1/3.0	7094
1/2"	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4506	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4506	4270	481000	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	321K4556 [1]	2995	481865	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556 [1]	4270	481000	8	8	2.1/3.0	7094
3/4"	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4606	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4606	4270	481000	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	321K4656 [1]	2995	481865	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4656 [1]	4270	481000	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G3610 [2]	2995	481865	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G3610 [2]	4270	481000	8	8	2.0	3442

Notes:
1.With manual override
2.With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36

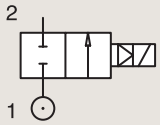
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4706	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4706	4270	481000	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	321K4756 [1]	2995	481865	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4756 [1]	4270	481000	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G3710 [2]	2995	481865	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G3710 [2]	4270	481000	8	8	2.0	3442
1 1/4"	28	280	16.8	18000	0.3	16	16	-10	100	NBR	E321G3810 [2]	2995	481865	8	9	2.0	3442
	28	280	16.8	18000	0.3	16	16	-10	100	NBR	E321G3810 [2]	4270	481000	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	FKM	E321G3910 [2]	2995	481865	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	FKM	E321G3910 [2]	4270	481000	8	8	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	FKM	E321G4010 [2]	2995	481865	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	FKM	E321G4010 [2]	4270	481000	8	8	2.0	3442

Notes:
1.With manual override
2.With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36

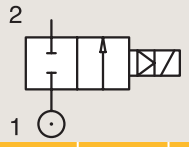
2/2 HOT WATER AND STEAM VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	0	100	EPDM	E321K1503	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	4	0	120	EPDM	E321K1503	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0.2	10	10	0	140	EPDM	E321K1503 [1]	4270	486265	14	14	2.0	3427

Notes:
1.Maximum pressure for steam: 4Bar (140°C)

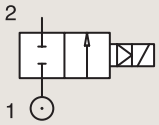
2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 12	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 12	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 12	4270	486265	14	14	2.0	3523
	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21 12	2995	481865	8	9	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21 12	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21 12	4270	486265	14	14	2.0	3523
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 12	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 12	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 12	4270	486265	14	14	2.0	3521
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23 12	2995	481865	8	9	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23 12	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23 12	4270	486265	14	14	2.0	3521
	11	36	2.16	-	0.2	20	3	-10	100	Ruby	E321K63	2995	483510	9	-	2.0	3429
	11	36	2.16	-	0.2	30	4	-10	140	Ruby	E321K63	4270	488553	9	-	2.0	3429
	11	36	2.16	-	0.2	4	4	-10	75	Ruby	E321K63	-	492190	11	9	2.0	3429

Notes:

1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing

2.Pilot seat disc in synthetic Ruby

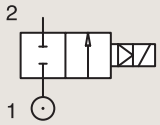
2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/2"	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 $_{12}$	2995	481865	8	9	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15 $_{12}$	4270	481000	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15 $_{12}$	4270	486265	14	14	2.0	3522
	15	60	3.6	-	0.3	40	25	-10	100	FKM	E321H25 $_{12}$	2995	481865	8	9	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	65	FKM	E321H25 $_{12}$	-	483371	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	E321H25 $_{12}$	4270	486265	14	14	2.0/14.2	3522

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby