

General application valves for dry or lubricated air, neutral gases and liquids

3/2

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/8	1.2 to 2.5	15.0	124
			1/4	1 to 4.5	30.0	126
			SB	1 to 2.5	15.0	136
		Normally open	1/4	1.5 to 3	16.0	132
			SB	1.5 to 2.5	16.0	144
		Universal	1/8	1.5 to 2.5	10.0	134
			1/4	1.5 to 3	10.0	134
			SB	1.5 to 2.5	10.0	144
		Magnetic latch control	1/4	1.5 to 2.5	16.0	136
	Delrin body	Normally closed	SB	2	10.0	148
Pilot operated	Anod. aluminium body	Normally closed	1/4	6.5 to 8	40.0	150
			1/2	14 to 15	15.0	152
		Normally open	1/4	8	40.0	152
			1/2	14	15.0	154

Notes:

Direct operated and magnalift valves: pressure range from 0 to max pressure.

Pilot operated valves: pressure range from 0.3 to 0.5 bar to max. pressure (refer to tables).

General application valves for dry or lubricated air, neutral gases and liquids

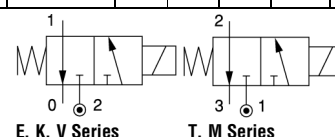
3/2



Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G						DC	AC													

Normally closed



Brass body/Pipe mounting

1/8	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M15	8993	488980	2.5	2	150	1	14
	(1.5)	(0.9)	(2.2)	(70)	0	10	10	75	75	75	FKM	-	131M15	8993	488980	2.5	2	150	1	14
	1.5	1.1	2.4	70	0	7	7	75	75	75	FKM	-	131M14	8993	488980	2.5	2	150	1	14
	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131KBG1GV00	E131K14	2995	481865	9	8	325	2	17
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM	7131KBG1GV00	E131K14	4270	481000	8	8	445	2	17
	2	2	6.5	140	0	-	10	75	75	75	FKM	7131ZBG1JV00	-	2995	481865	9	8	270	2	7894
	2	2	6.5	140	0	10	10	75	75	75	FKM	7131ZBG1JV00	-	4270	481000	8	8	390	2	
	2	2	6.5	140	0	10	10	75	75	75	FKM	7131ZBG1JV00	-	2995	482730	7	6	270	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG1JVM0	131K1650	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM	7131KBG1JVM0		2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM	7131KBG1JVM0		4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM	7131KBG1JVM0	4270	481000	8	8	430	2		
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG1JV00	131K16	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM	7131KBG1JV00		2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM	7131KBG1JV00		4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM	7131KBG1JV00	4270	481000	8	8	430	2		
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG1LV00	E131K13	2995	481865	9	8	325	2	17
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM	7131KBG1LV00		4270	481000	8	8	445	2	

Table continued on page 126

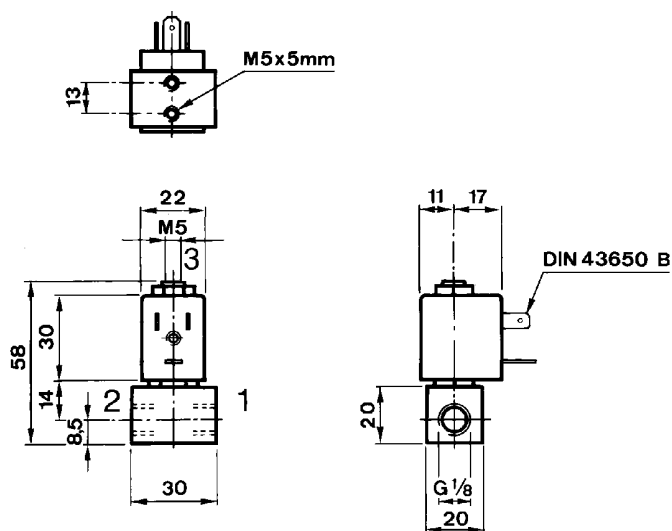
Notes:

* See Electrical Parts Group table at end of section

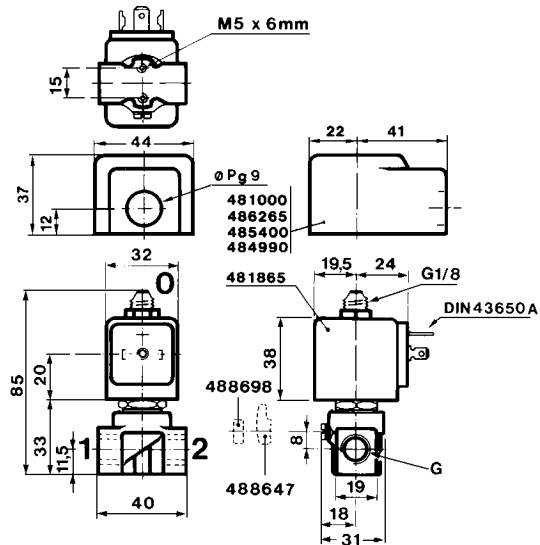
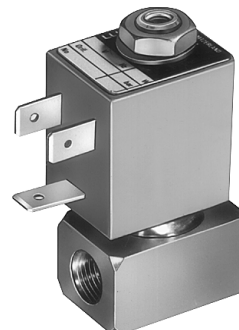
1. Manual override standard

Values shown within brackets are valid for exhaust port only.

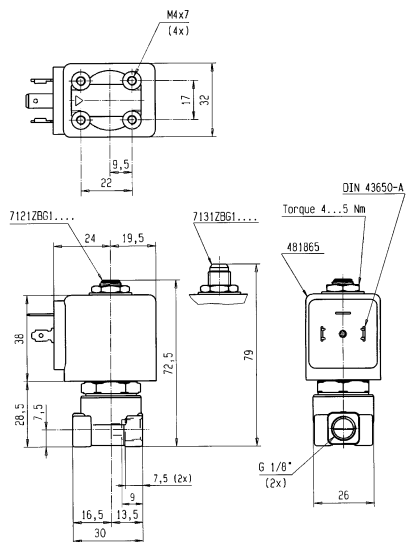
General application valves 3/2 - Direct operated



Dimension reference 14



Dimension reference 17



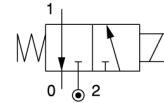
Dimension reference 7894



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

Normally closed



Brass body/Pipe mounting

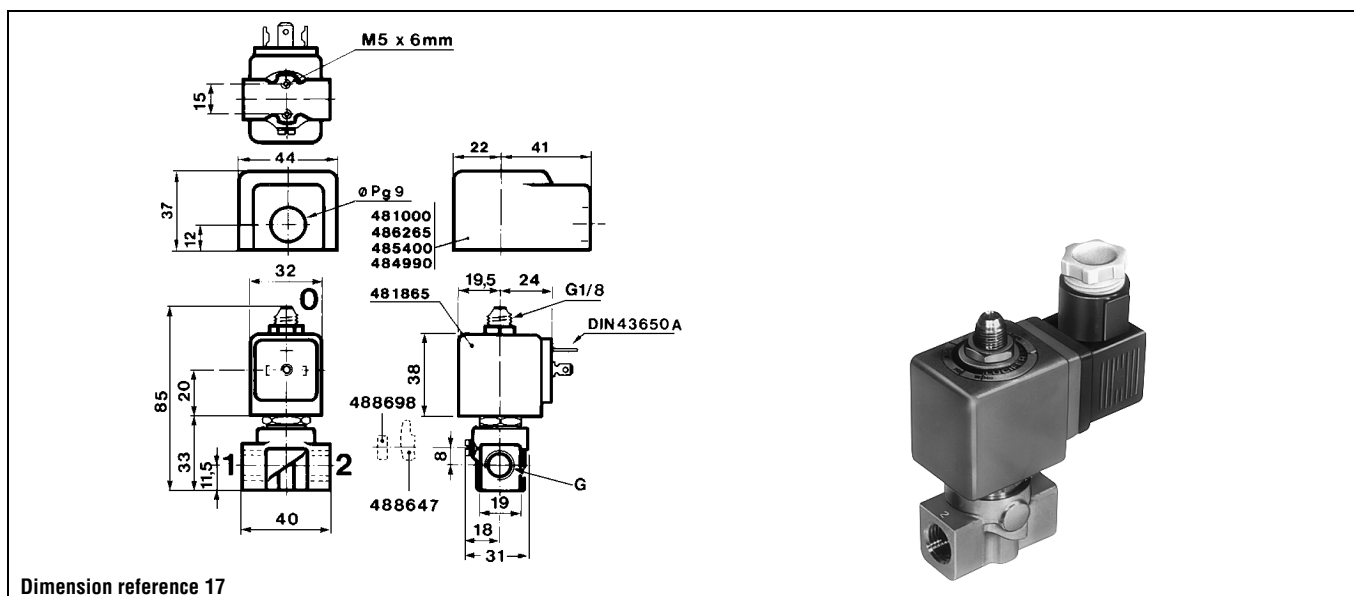
1/4	1	0.6	-	38	0	10	-	75	75	75	FKM	7131KBG2CV90	131K0490	-	483580.01 ¹	0.4	-	285	7	77
	1.2	0.8	4.5	50	0	-	30	130	130	130	Ruby	7131KBG2ERM0	E131K6450 ²	4270	481000	-	8	430	2	17
	(1.5)	(1.5)	(9)	(80)	0	-	30	130	130	130	Ruby			4270	481000	-	8	430	2	
	1.2	0.8	4.5	50	0	30	-	140	140	140	Ruby			4270	486265	14	-	430	2	
	(1.5)	(1.5)	(9)	(80)	0	30	-	140	140	140	Ruby			4270	486265	14	-	430	2	
	1.2	0.8	4.5	50	0	-	30	130	130	130	Ruby	7131KBG2ER00	E131K64	4270	481000	-	8	430	2	17
	(1.5)	(1.5)	(9)	(80)	0	-	30	130	130	130	Ruby			4270	481000	-	8	430	2	
	1.2	0.8	4.5	50	0	30	-	140	140	140	Ruby			4270	486265	14	-	440	2	
	(1.5)	(1.5)	(9)	(80)	0	30	-	140	140	140	Ruby			4270	486265	14	-	440	2	
	1.5	1.5	4	80	0	7	-	75	75	75	FKM	7131KBG2GVL5	131K0480	2995	482740	1.6	-	310	6	17
	1.5	1.5	6	80	0	15	15	100	100	100	FKM	7131KBG2GVM0	E131K0450 ²	2995	481865	9	8	310	2	17
	1.5	1.5	6	80	0	15	15	120	120	120	FKM			4270	481000	8	8	430	2	
	1.5	1.5	6	80	0	15	15	100	100	100	FKM	7131KBG2GV00	E131K04	2995	481865	9	8	310	2	17
	1.5	1.5	6	80	0	15	15	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM	7131TBG2JVM0	131T2301 ²	2995	481865	9	8	400	2	18
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			2995	481865	9	8	400	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM	7131TBG2JV00	131T23	2995	481865	9	8	400	2	18
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			2995	481865	9	8	400	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG2JVM0	E131K0650 ²	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG2JV00	E131K06	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	

Table continued on page 128

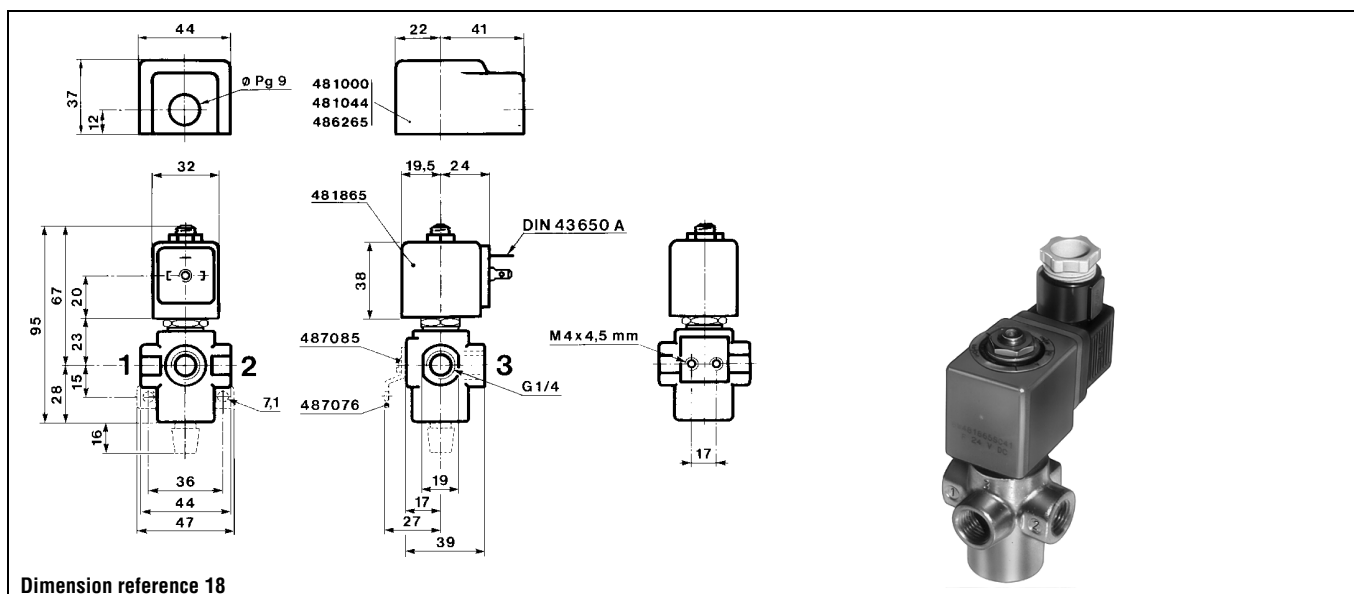
Notes:

- * See Electrical Parts Group table at end of section
 - 1. Other coil-housing available: 488650.01, 488660.01, 4888670.01 (refer to electrical parts at end of this section)
 - 2. Manual override standard
- Values shown within brackets are valid for exhaust port only.

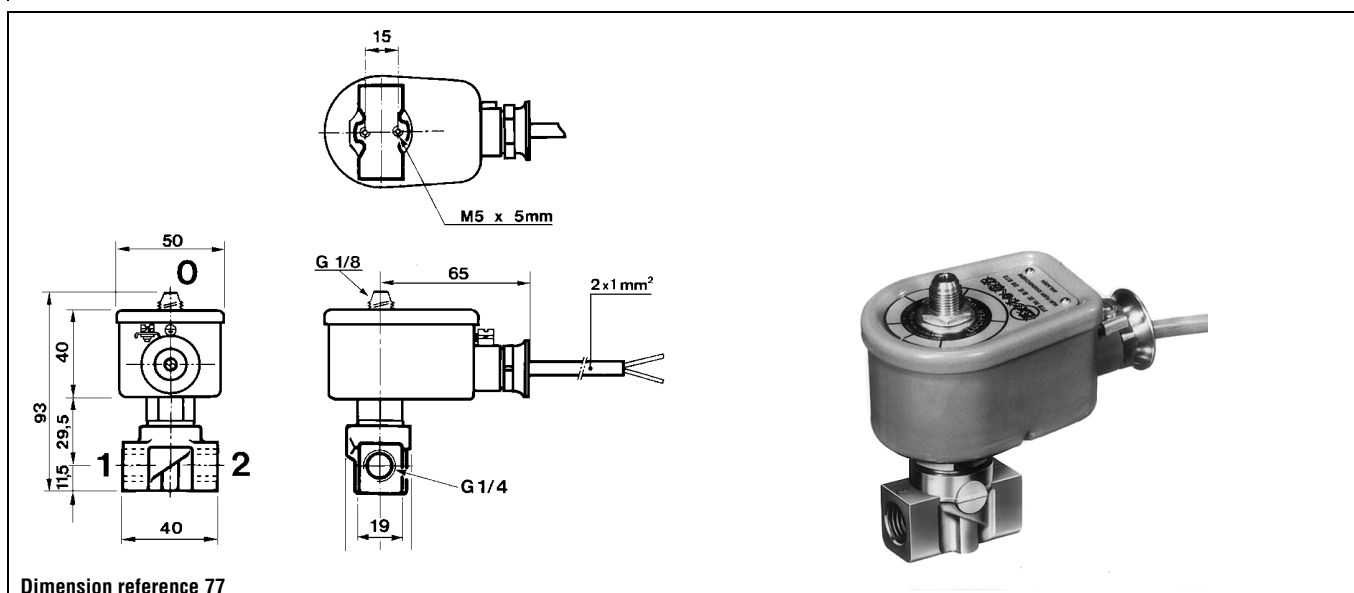
General application valves 3/2 - Direct operated



Dimension reference 17



Dimension reference 18

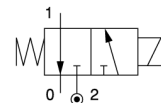


Dimension reference 77

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

Normally closed



1/4	2	2.5	8	140	0	10	10	80	80	80	PUR	7131KBG2JP1D	E131K06081D	¹	-	483250	8	8	1255	5	3845
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM	7131TBG2LVM0	131T2901	²	2995	481865	9	8	400	2	18
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				2995	481865	9	8	400	2	
	2.5	5.5	9.5	400	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	(3.5)	(3.5)	(8.5)	(220)	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM	7131TBG2LV00	131T29		2995	481865	9	8	400	2	18
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				2995	481865	9	8	400	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG2LVM0	E131K0350	²	2995	481865	9	8	310	2	17
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG2LV00	E131K03		2995	481865	9	8	310	2	17
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	430	2	

Table continued on page 130

Notes:

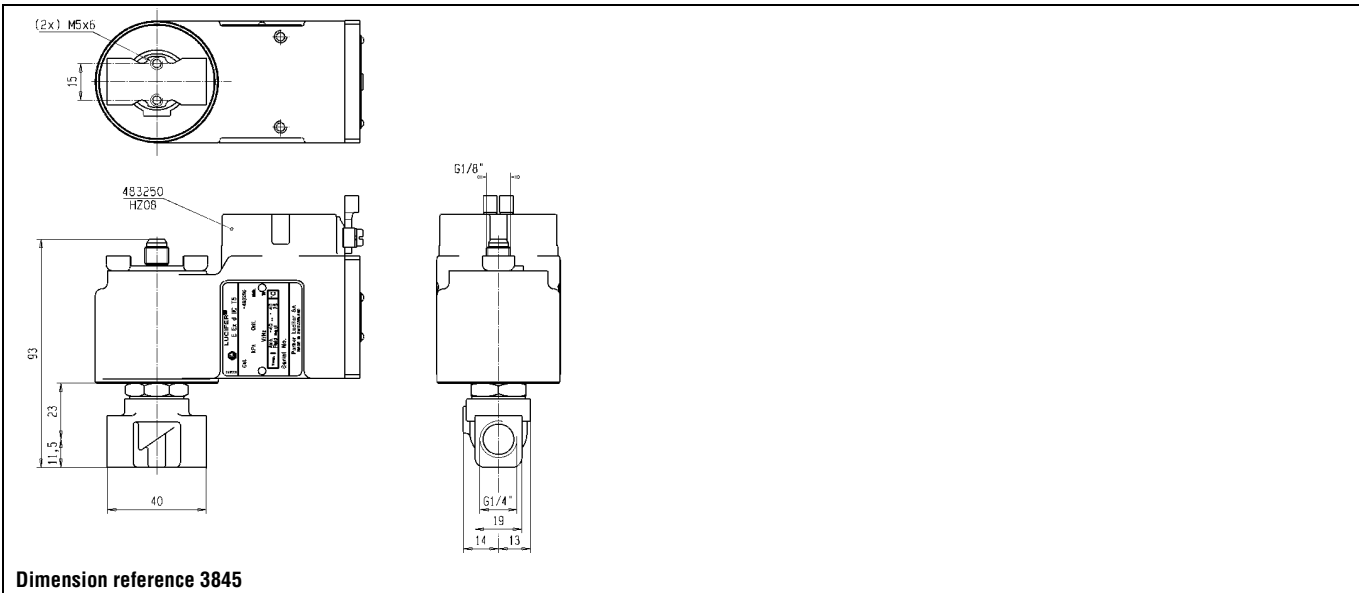
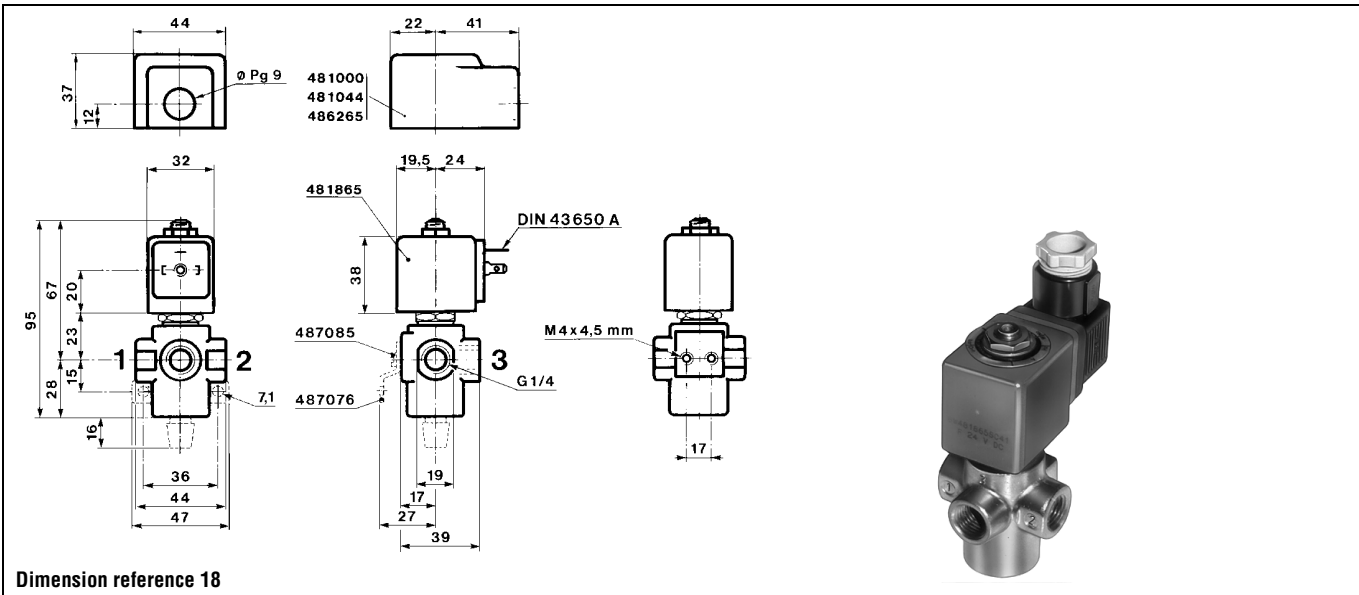
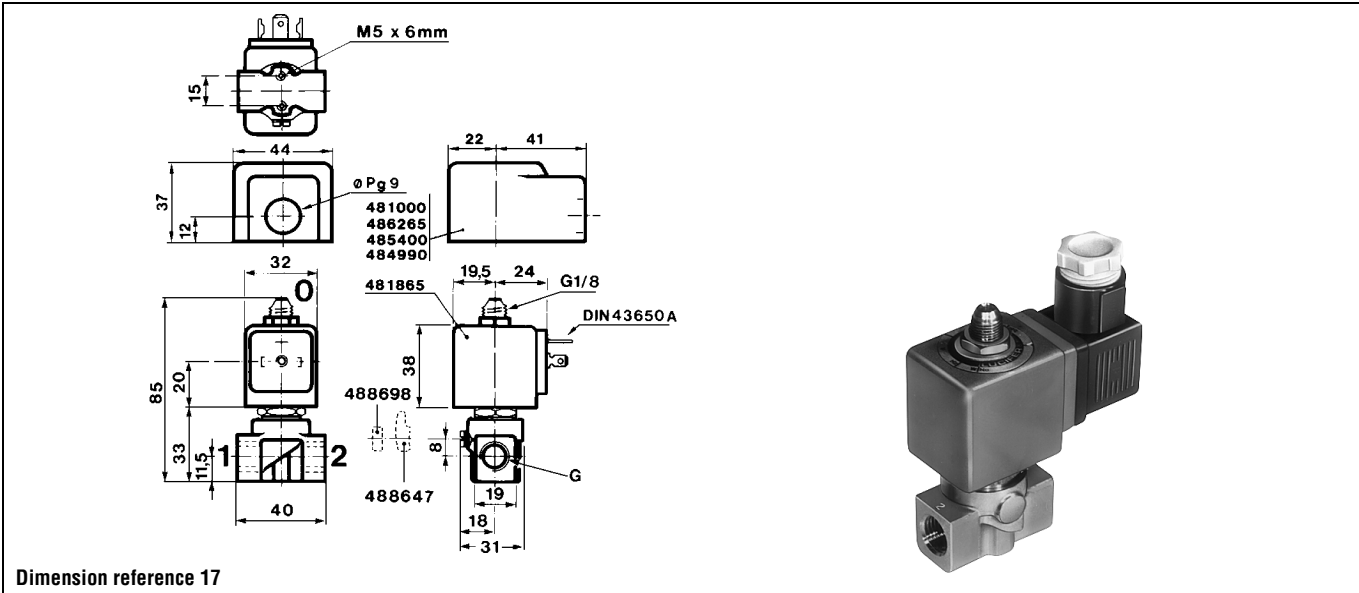
* See Electrical Parts Group table at end of section

1. Operates with low temperatures down to -40 deg. C

2. Manual override standard

Values shown within brackets are valid for exhaust port only.

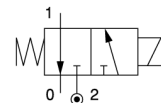
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Normally closed



1/4	2.5	2.7	7.1	220	0.1	7	7	75	75	75	NBR	7131EBG2LN00	E131E03	2995	481865	9	8	650	2	19
	(6)	(15)	(12.5)	1100	0.1	7	7	75	75	75	NBR			2995	481865	9	8	650	2	
	2.5	2.7	7.1	220	0.1	7	7	75	75	75	NBR			4270	481000	8	8	770	2	
	(6)	(15)	(12.5)	1100	0.1	7	7	75	75	75	NBR			4270	481000	8	8	770	2	
	2.5	3.5	9.5	220	0	7	7	100	100	100	Ruby	7131KBG2LRM0	E131K6350	¹ 2995	481865	9	8	310	2	17
	2.5	3.5	9.5	220	0	7	7	130	130	130	Ruby			4270	481000	8	8	430	2	
	2.5	3.5	9.5	220	0	7	7	100	100	100	Ruby	7131KBG2LR00	E131K63	2995	481865	9	8	310	2	17
	2.5	3.5	9.5	220	0	7	7	130	130	130	Ruby			4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LP1D	E131K03081D	² -	483250	8	8	1255	5	3845
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LP00	E131K0308	² 2995	481865	9	8	180	2	17
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR			4270	481000	8	8	180	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LPM0	E131K0358	¹ 2995	481865	² 9	8	180	2	17
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR			4270	481000	² 8	8	180	2	

Table continued on page 132

Notes:

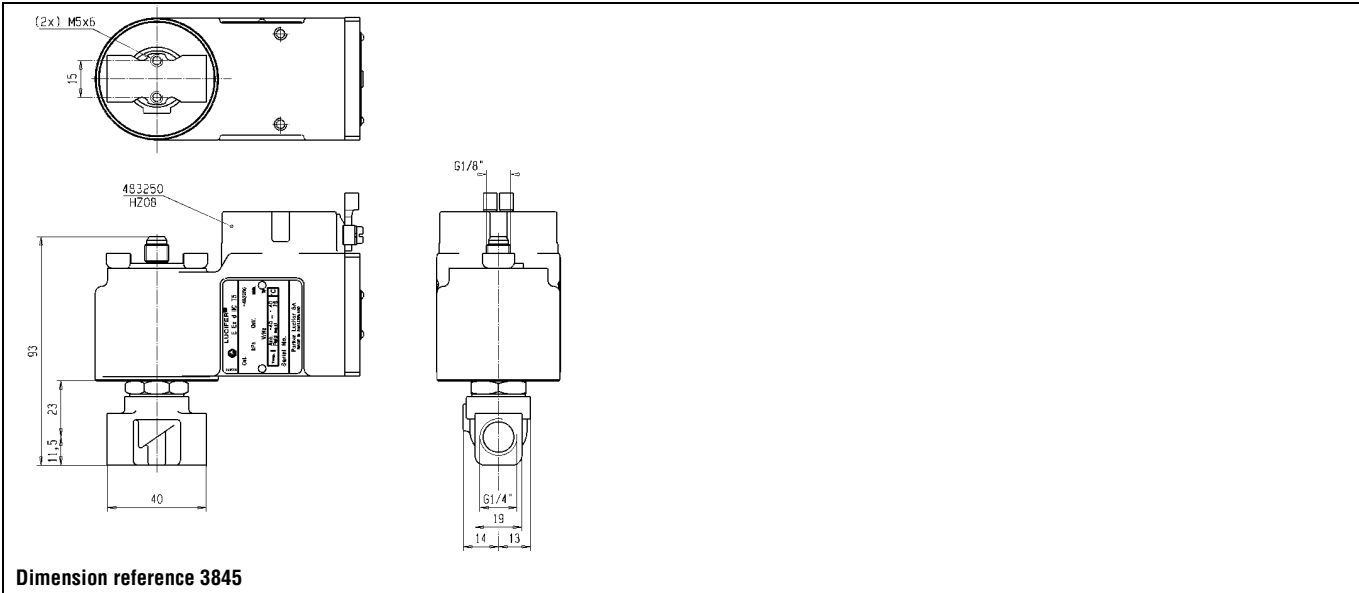
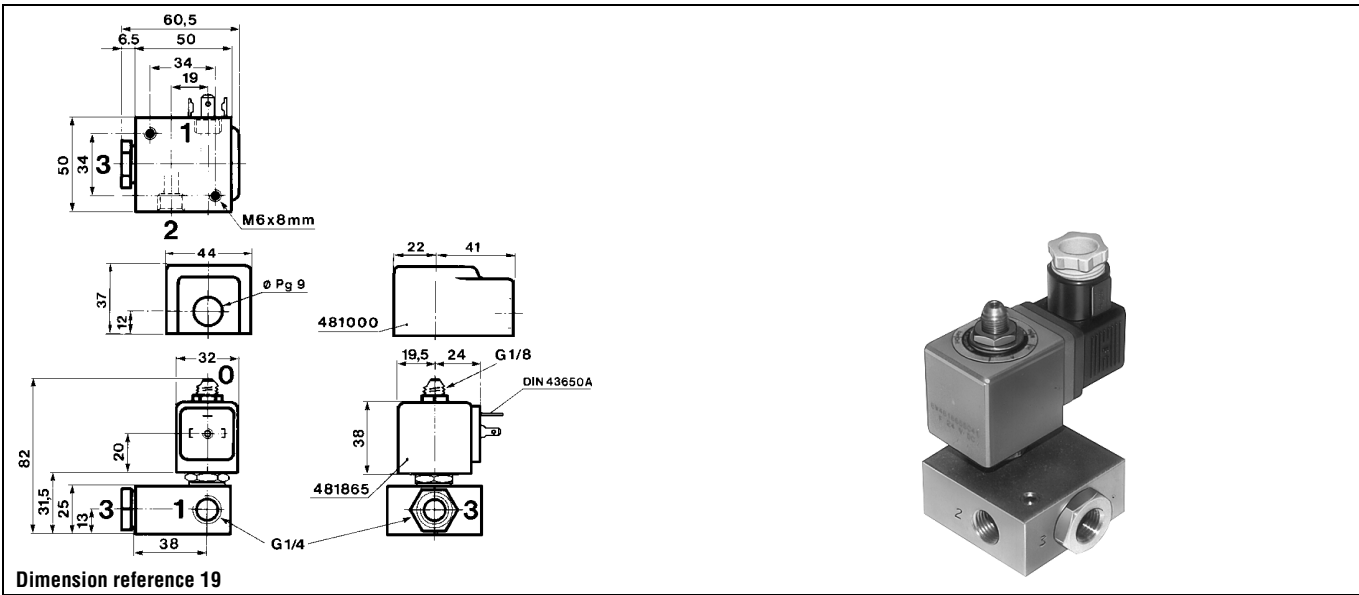
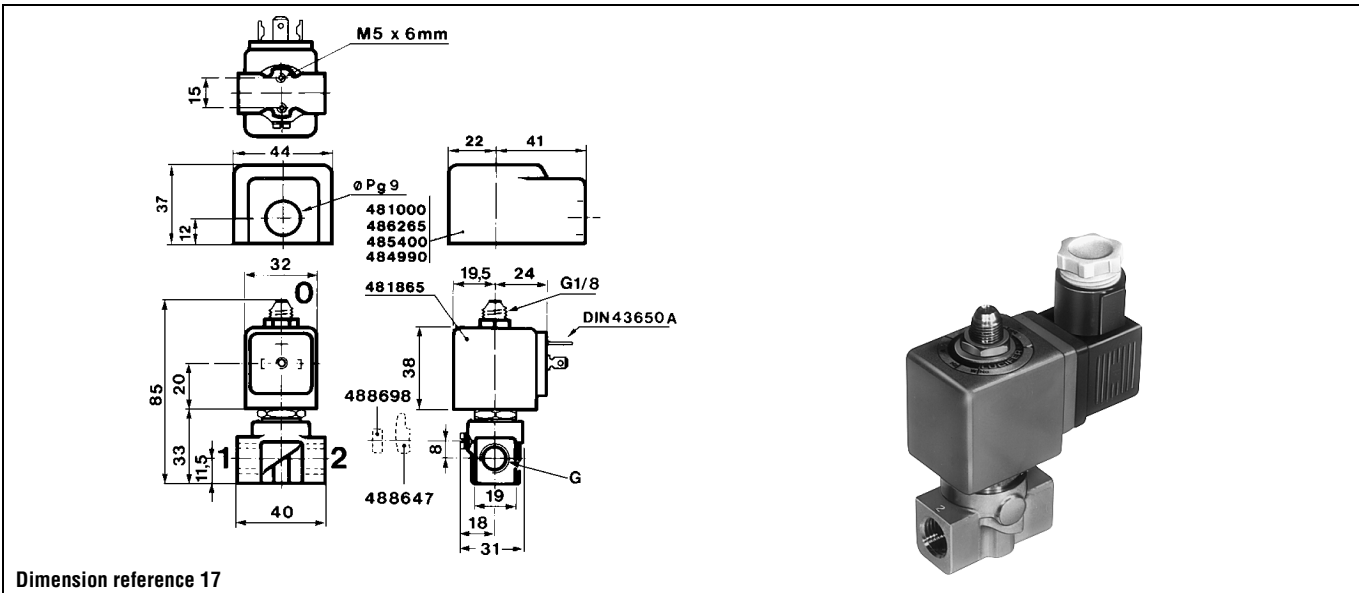
* See Electrical Parts Group table at end of section

1. Manual override standard

2. Operates with low temperatures down to -40 deg. C

Values shown within brackets are valid for exhaust port only.

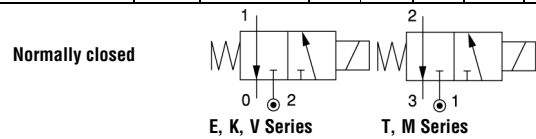
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

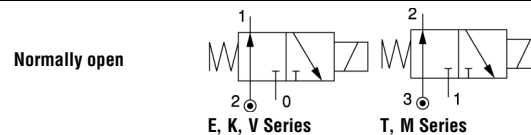
Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Gases Qmax	Gases Qn	Min	Max DC	Max AC	Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Pipe mounting



1/4	3	4.5	9	355	0	-	10	75	75	75	FKM	7131TBG2NVA0	131T22	4270	481044	-	14	520		18
	(4)	(6)	(10.5)	(450)	0	-	10	75	75	75	FKM			4270	481044	-	14	520		
	3	6	10.5	450	0	-	10	75	75	75	FKM			2995	492425	-	14	400		
	(4)	(4.5)	(9)	(355)	0	-	10	75	75	75	FKM			2995	492425	-	14	400		
	4.5	7	10.5	500	0	2	2	75	75	75	FKM	7131TBG2RVM0	131T2101	1	2995	481865	9	8	400	2
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			2995	481865	9	8	400	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM	7131TBG2RV00	131T21	2995	481865	9	8	400	2	18
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			2995	481865	9	8	400	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	

Brass body/Pipe mounting



1/4	1.5	1.4	6	80	0	16	16	100	100	100	FKM	7132KBG2GV00	132K04	2995	481865	9	8	310	2	17
	1.5	1.4	6	80	0	16	16	120	120	120	FKM			4270	481000	8	8	430	2	
	2	1.8	6	125	0	10	10	100	100	100	FKM	7132KBG2JV00	132K06	2995	481865	9	8	310	2	17
	2	1.8	6	125	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	5	10	75	75	75	FKM	7132TBG2JVM0	132T2301	2995	481865	9	8	300		18
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			2995	481865	9	8	300		
	2	2.5	8	140	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	2	2.5	8	140	0	10	-	75	75	75	FKM			4270	486265	14	14	430		
	(3)	(4.5)	(9)	(355)	0	10	-	75	75	75	FKM			4270	486265	14	14	430		
	2	2.5	8	140	0	5	10	75	75	75	FKM	7132TBG2JV00	132T23	2995	481865	9	8	300		18
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			2995	481865	9	8	300		
	2	2.5	8	140	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	2	2.5	8	140	0	10	-	75	75	75	FKM			4270	486265	14	-	430		
	(3)	(4.5)	(9)	(355)	0	10	-	75	75	75	FKM			4270	486265	14	-	430		
	2.5	2.2	8.5	160	0	7	7	100	100	100	FKM	7132KBG2LV00	132K03	2995	481865	9	8	310	2	17
	2.5	2.2	8.5	160	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	3.5	7	75	75	75	FKM	7132TBG2LV00	132T29	2995	481865	9	8	300		18
	(3.5)	(5.5)	(9.5)	(400)	0	3.5	7	75	75	75	FKM			2995	481865	9	8	300		
	2.5	3.5	8.5	220	0	3.5	7	75	75	75	FKM			4270	481000	8	8	420		
	(3.5)	(5.5)	(9.5)	(400)	0	3.5	7	75	75	75	FKM			4270	481000	8	8	420		
	2.5	3.5	8.5	220	0	7	-	75	75	75	FKM			4270	486265	14	14	430		
	(3.5)	(5.5)	(9.5)	(400)	0	7	-	75	75	75	FKM			4270	486265	14	14	430		

Table continued on page 134

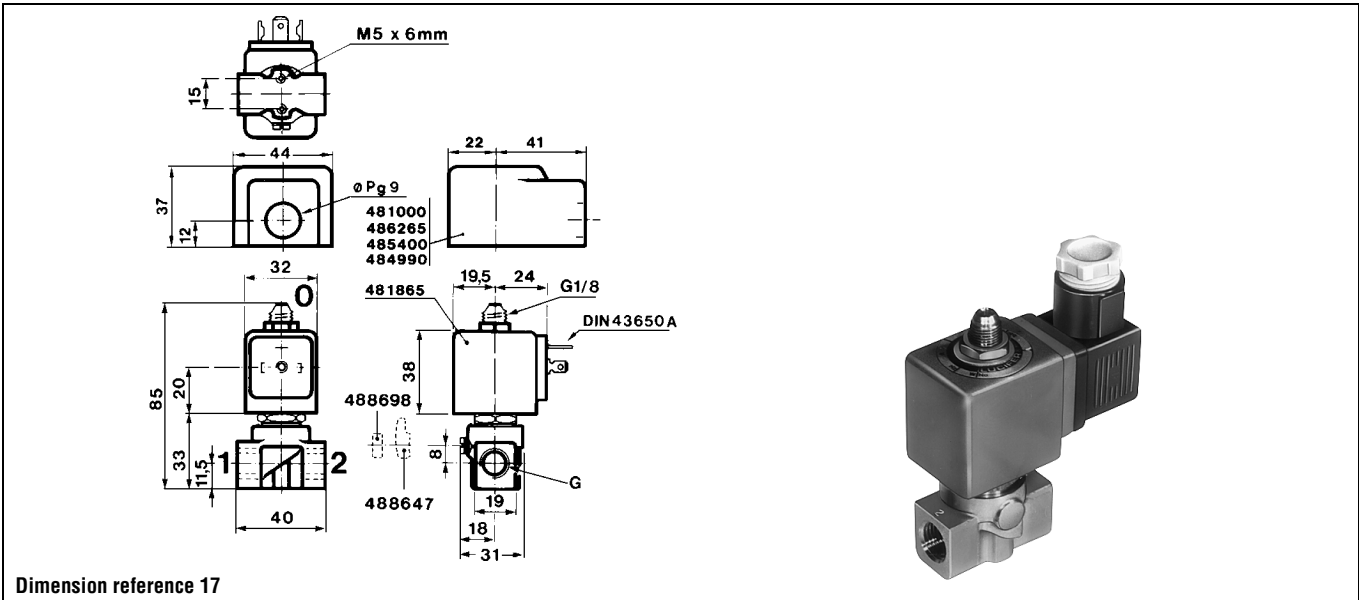
Notes:

* See Electrical Parts Group table at end of section

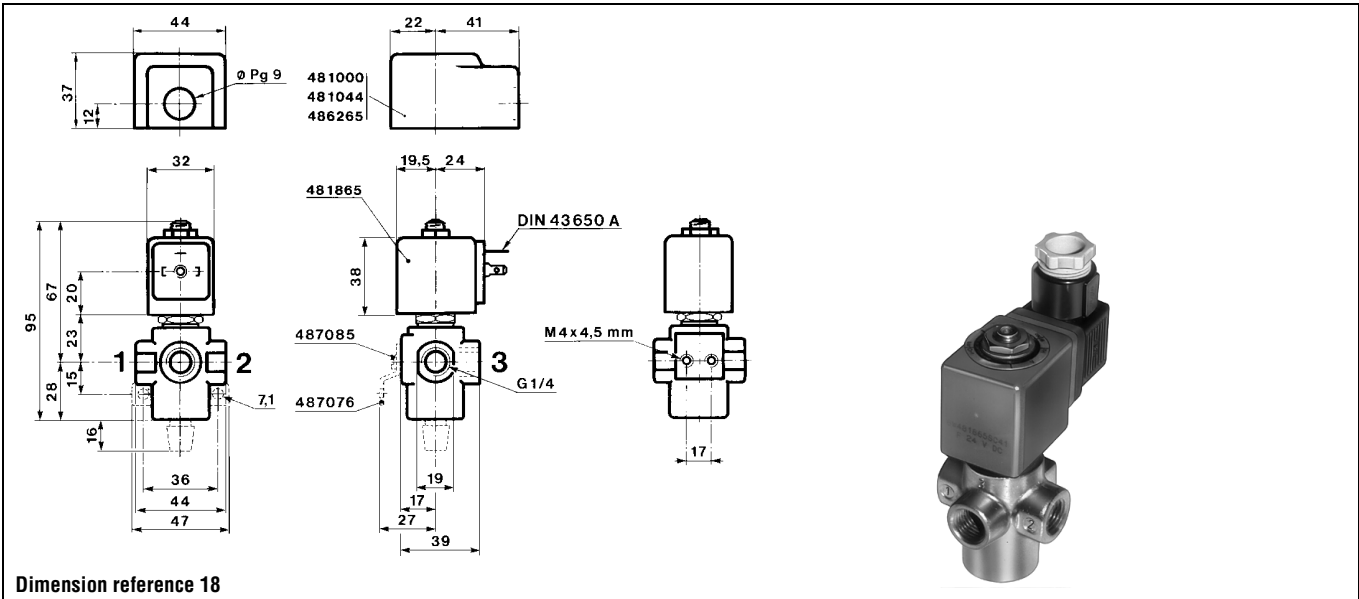
1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated



Dimension reference 17



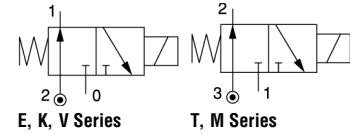
Dimension reference 18

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Gases Qmax	Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Pipe mounting

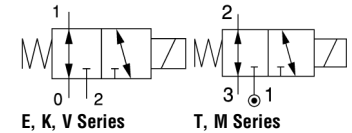
Normally open



1/4	3	6	10.5	450	0	-	10	75	75	75	FKM	7132TBG2NVA0	132T22	4270	481044	-	14	420		18
	(4)	(4.5)	(9)	(355)	0	-	10	75	75	75	FKM			4270	481044	-	14	420		
	3	4.5	9	355	0	-	7	75	75	75	FKM			2995	492425	-	14	325		
	(4)	(6)	(10.5)	(450)	0	-	7	75	75	75	FKM			2995	492425	-	14	325		

Brass body/Pipe mounting

Universal



1/8	1.5	1.5	4.7	80	0	10	10	100	100	100	FKM	7133KBG1GV00	E133K14	2995	481865	9	8	325	2	17	
	1.5	1.5	4.7	80	0	10	10	120	120	120	FKM			4270	481000	8	8	445	2		
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG1JV00	E133K16	2995	481865	9	8	325	2	17	
	2	2.5	6.6	145	0	7	7	120	120	120	FKM			4270	481000	8	8	445	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG1LV00	E133K13	2995	481865	9	8	325	2	17	
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	445	2		
1/4	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133KBG2GVM0	E133K0450	1	2995	481865	9	8	310	2	17
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133KBG2GV00	E133K04		2995	481865	9	8	310	2	17
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	1.5	1.5	4.5	80	0	10	10	75	75	75	NBR	7133KBG2GV1D	E133K04001D	-	483250	8	8	1255	5	3845	
	2	2.5	7	140	0	7	7	75	75	75	FKM	7133TBG2JVM0	133T2301	1	2995	481865	9	8	400		18
	2	2.5	7	140	0	7	7	75	75	75	FKM			4270	481000	8	8	520			
	2	2.5	7	140	0	7	7	75	75	75	FKM	7133TBG2JV00	133T23		2995	481865	9	8	400		18
	2	2.5	7	140	0	7	7	75	75	75	FKM			4270	481000	8	8	520			
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG2JVM0	E133K0650	1	2995	481865	9	8	310	2	17
	2	2.5	6.6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2		
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG2JV00	E133K06		2995	481865	9	8	310	2	17
	2	2.5	6.6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG2LVM0	E133K0350	1	2995	481865	9	8	310	2	17
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	430	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG2LV00	E133K03		2995	481865	9	8	310	2	17
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	430	2		
	3	4.5	6	355	0	2	2	75	75	75	FKM	7133TBG2NVM0	133T2101	1	2995	481865	9	8	300	2	18
	3	4.5	6	355	0	2	2	75	75	75	FKM			4270	481000	8	8	420	2		
	3	4.5	6	355	0	2	2	75	75	75	FKM	7133TBG2NV00	133T21		2995	481865	9	8	400	2	18
3	4.5	6	355	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2			

Table continued on page 136

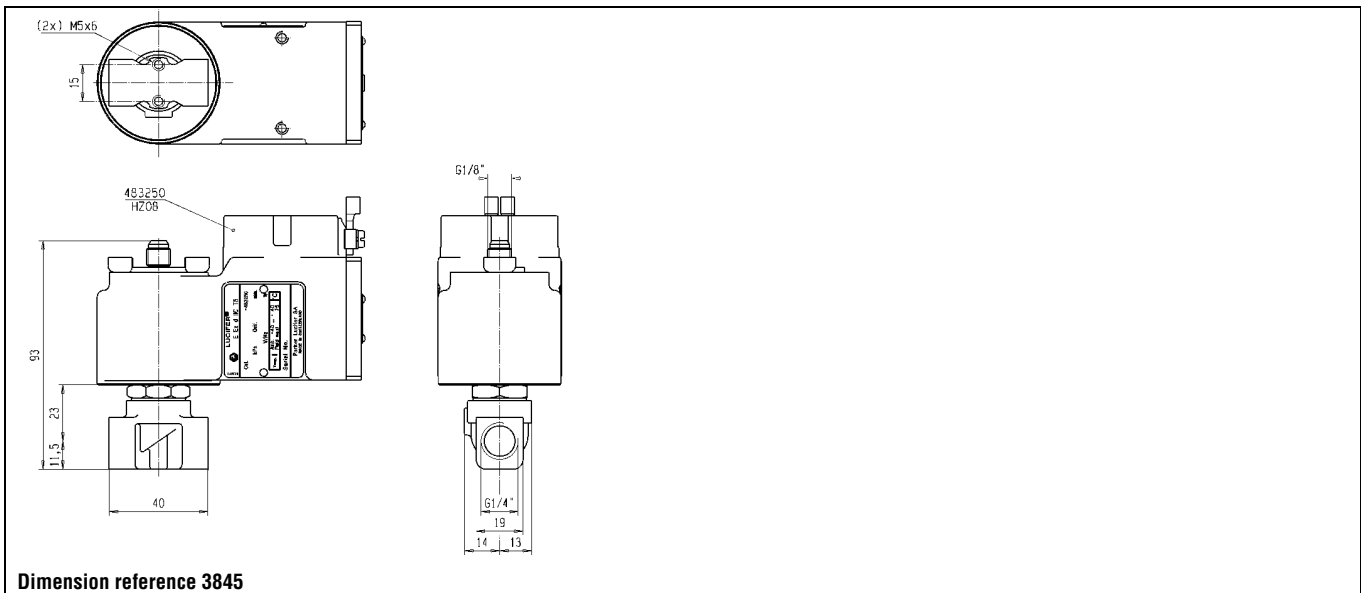
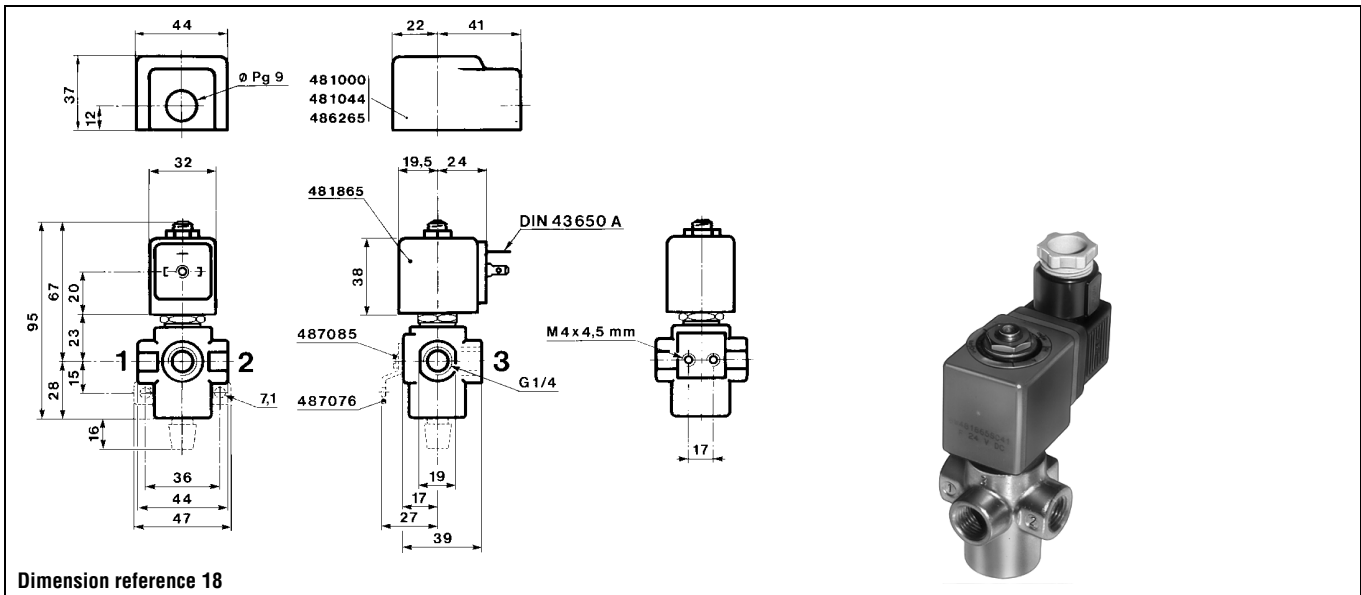
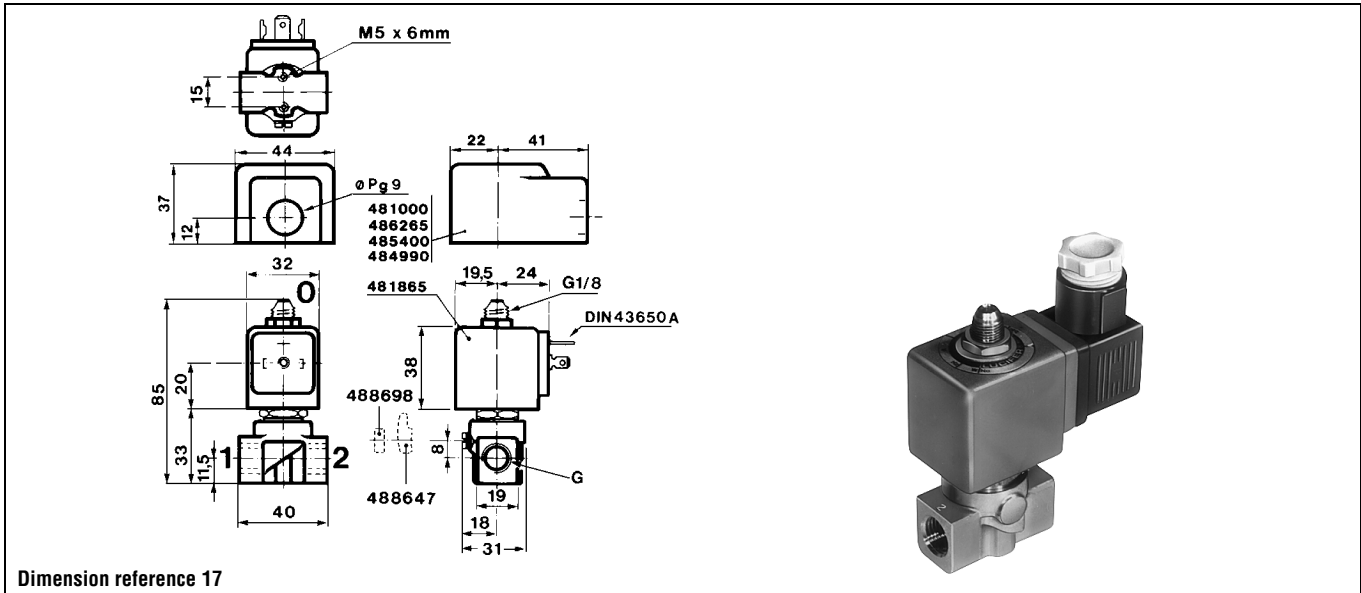
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

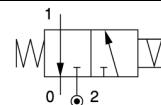
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

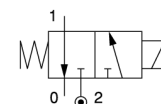
Magnetic latch control



Brass body/Pipe mounting

1/4	1.5	1.5	6	80	0	-	16	100	100	100	FKM	7135KBG2GV00	135K04	4269	484990	-	11	450	4	17
	1.5	1.5	6	80	0	16	-	100	100	100	FKM			4269	485400	13	-	450	4	
	2.5	3.5	8.5	220	0	-	7	100	100	100	FKM	7135KBG2LV00	135K03	4269	484990	-	11	450	4	17
	2.5	3.5	8.5	220	0	7	-	100	100	100	FKM			4269	485400	13	-	450	4	

Normally closed



Brass body/Sub-base mounting

SB	1	0.6	-	-	0	10	-	75	75	-	FKM	-	131F4490	¹	-	483580.01	²	0.4	-	235	7	79
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Table continued on page 138

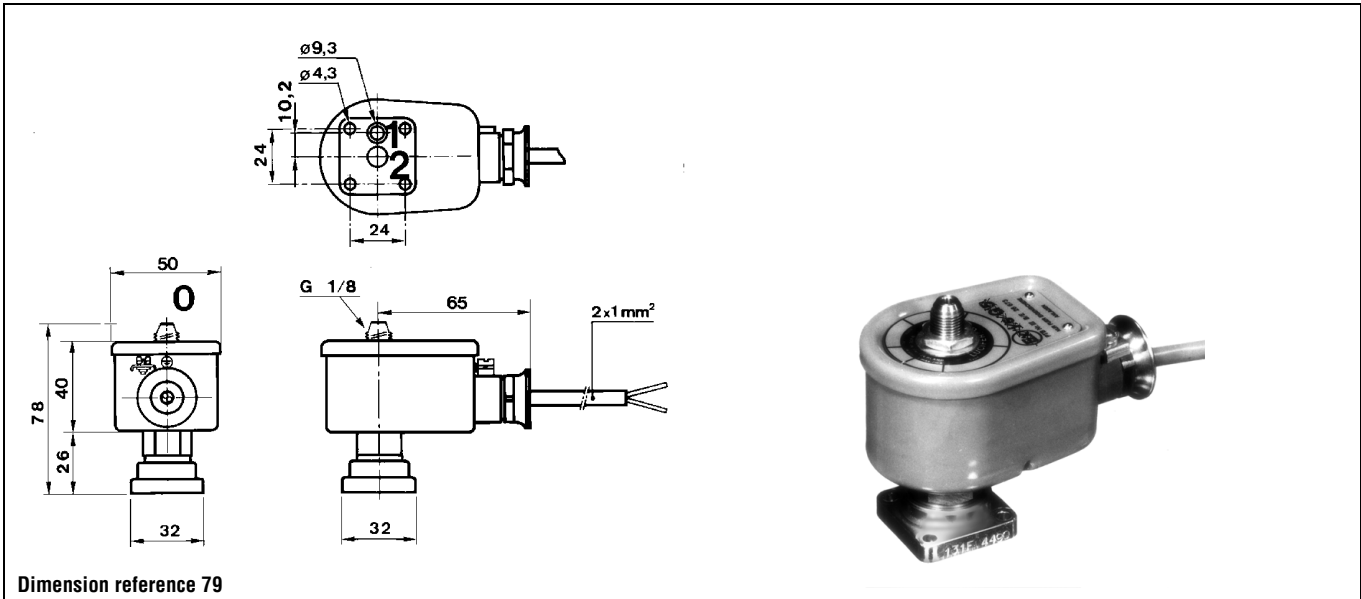
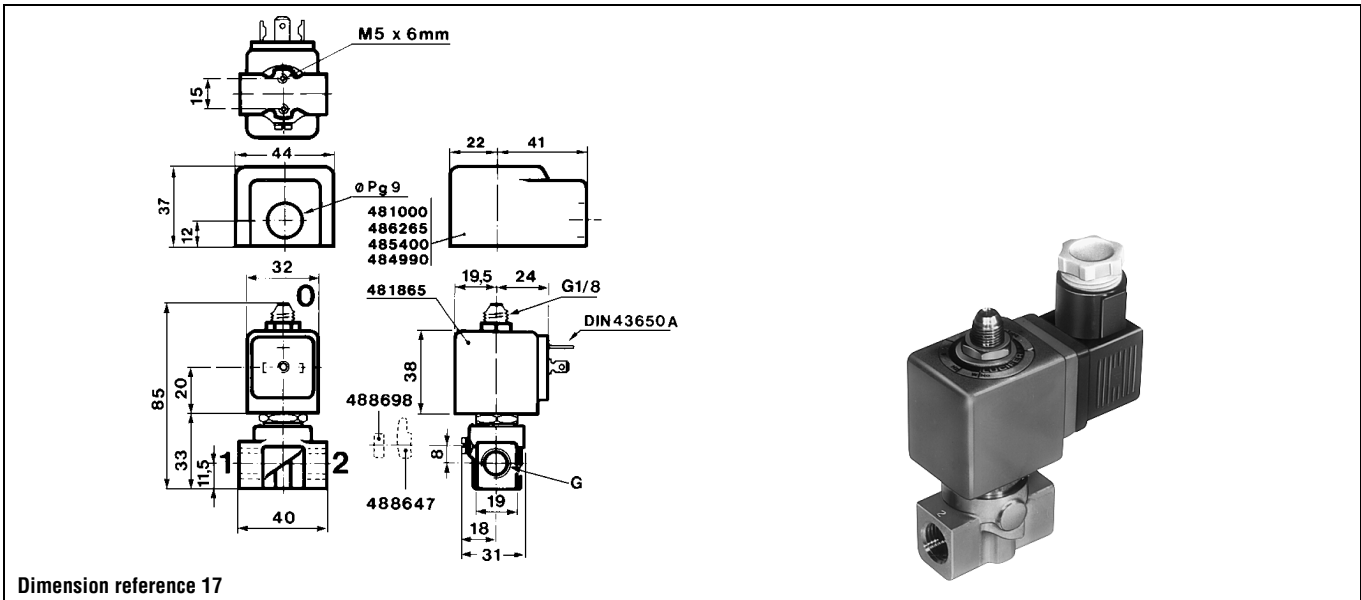
Notes:

* See Electrical Parts Group table at end of section

1. Other coil-housing available: 488650.01, 488660.01, 488670.01 (refer to electrical parts at end of this section)

2. This reference no. is for the complete electrical part (coil + housing)

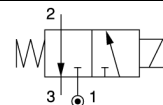
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Normally closed



SB	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M75	8993	488980	2.5	2	125	1	26
	(1.5)	(0.9)	(2.2)	(70)	0	10	10	75	75	75	FKM	-		8993	488980	2.5	2	125	1	
	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M7550	1 8993	488980	2.5	2	125	1	26
	(1.5)	(1)	(2.2)	(70)	0	10	10	75	75	75	FKM	-		8993	488980	2.5	2	125	1	

Table continued on page 140

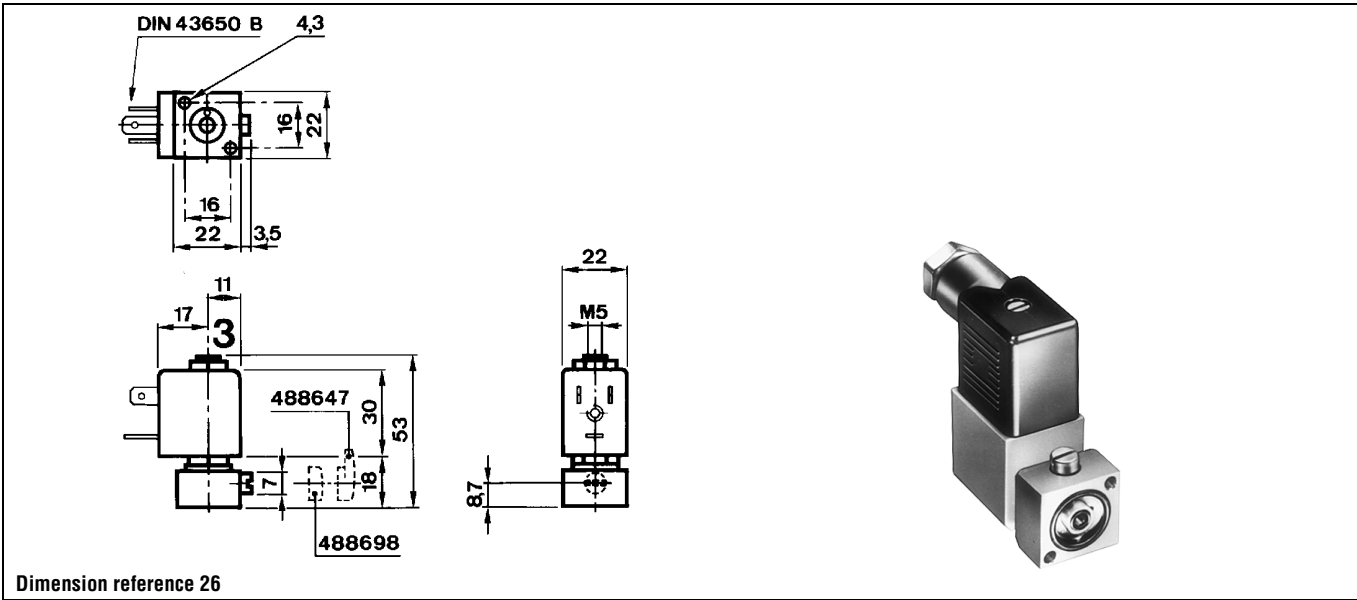
Notes:

* See Electrical Parts Group table at end of section

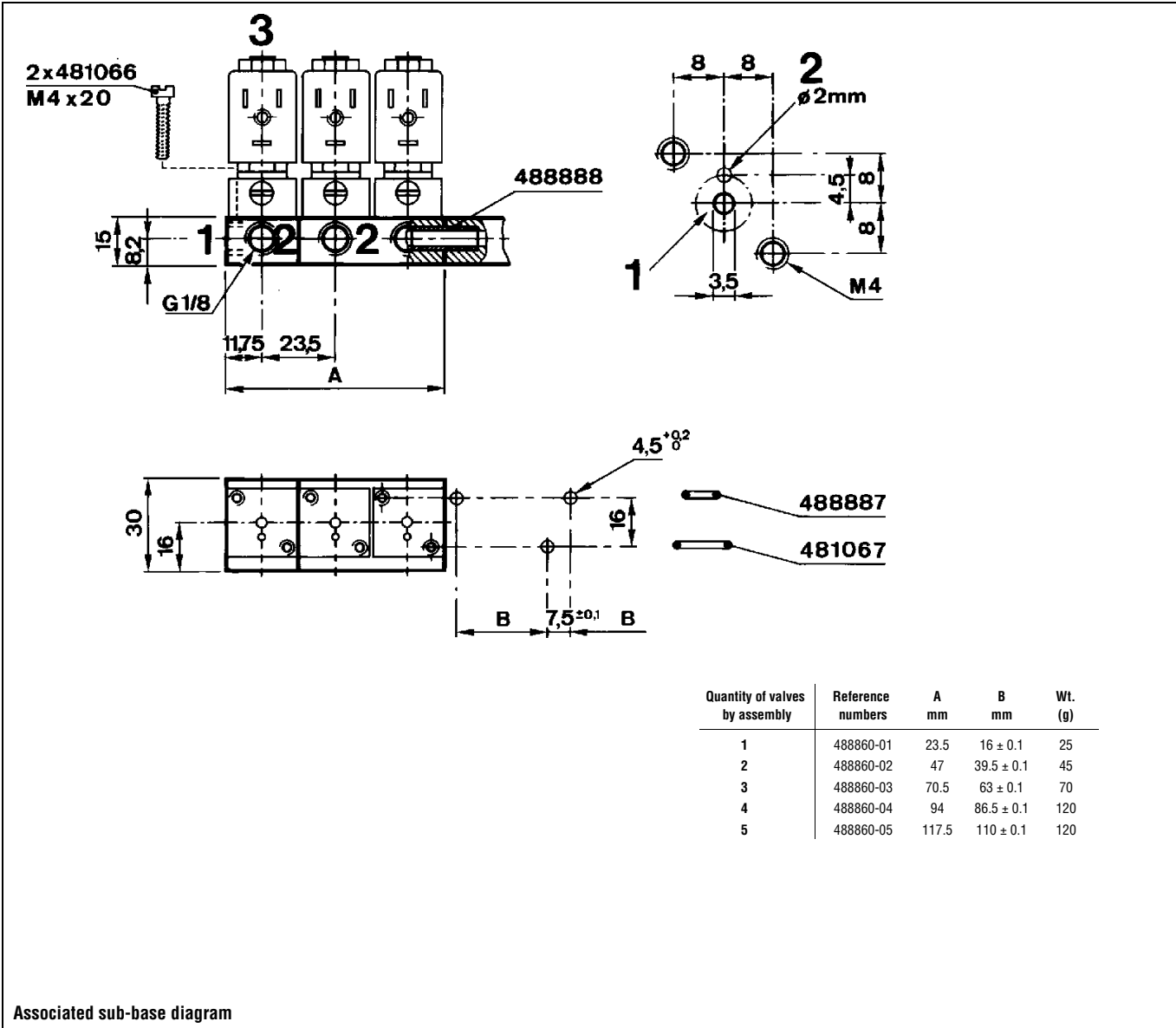
1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated



Dimension reference 26



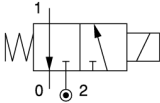
Associated sub-base diagram

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
												OR								
		Liquids		Gases	Min	Max	Gas	Liquid	Oil	Global valve reference		Valve reference no.	Housing	Coil	DC	AC				
G		kv	Qmax	Qn		DC	AC													

Brass body/Sub-base mounting

Normally closed



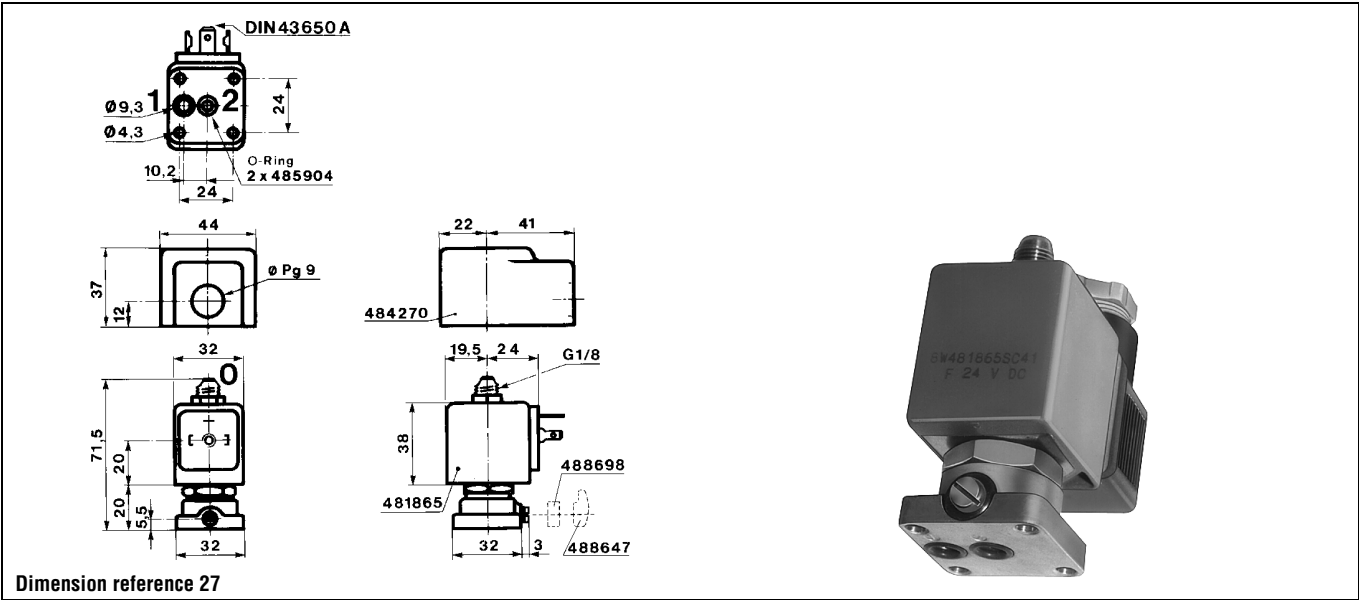
SB	1.5	1.5	4	80	0	7	-	75	75	75	FKM	7131FBF4GLV5	131F4480	2995	482740	1.6	-	255	6	27
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Table continued on page 142

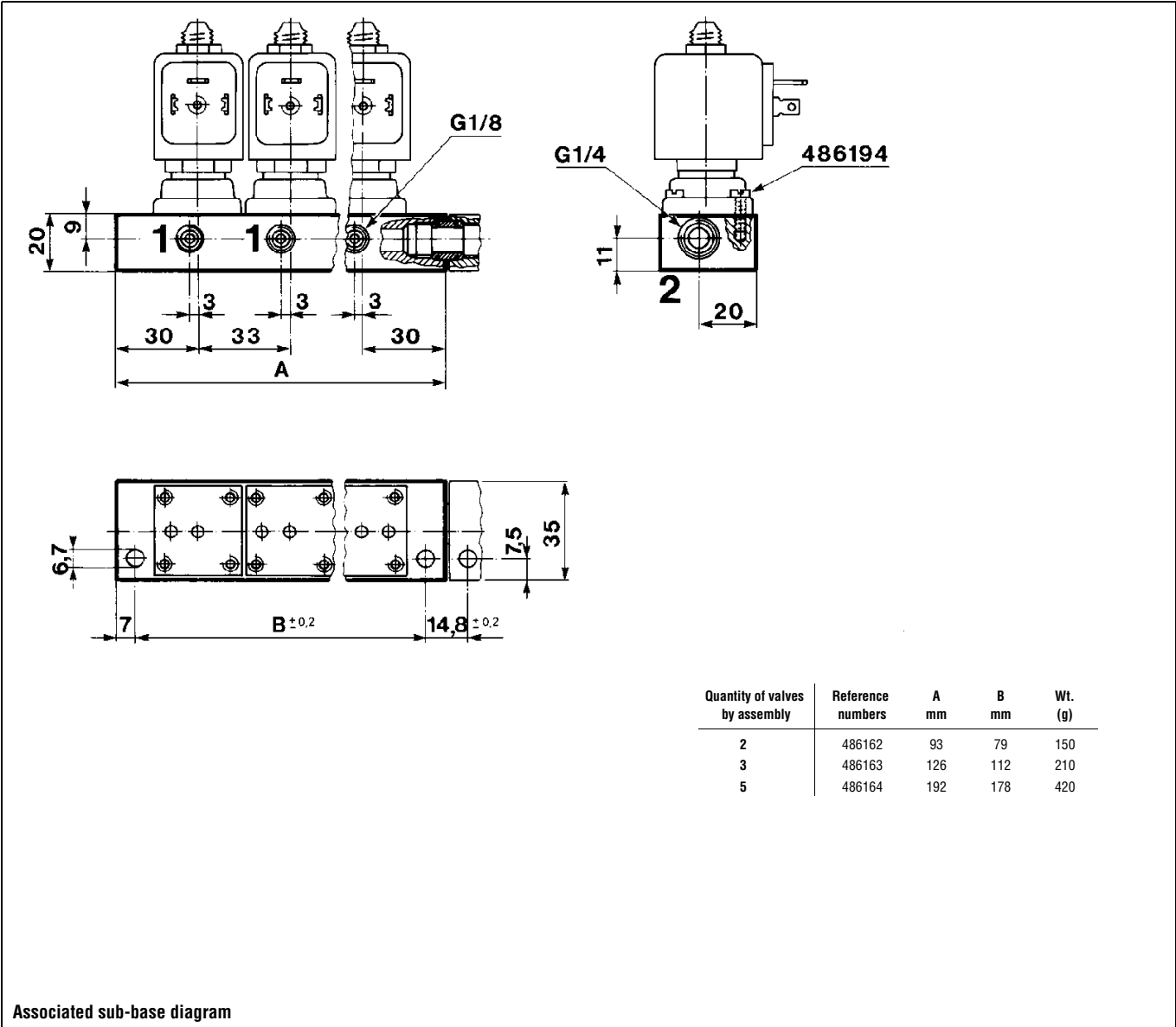
Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Direct operated



Dimension reference 27



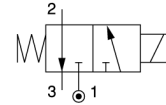
Associated sub-base diagram

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Brass body/Sub-base mounting

Normally closed



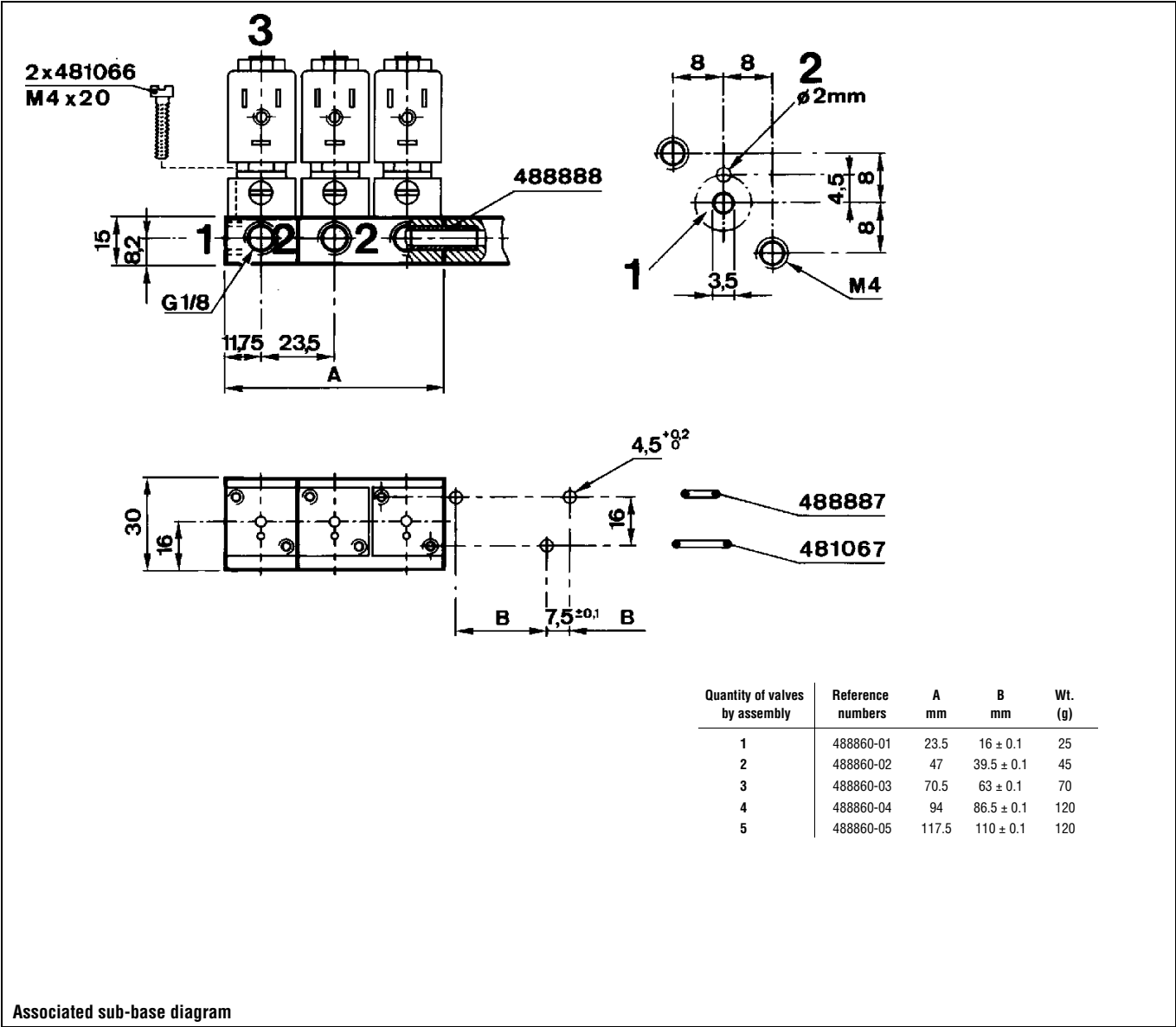
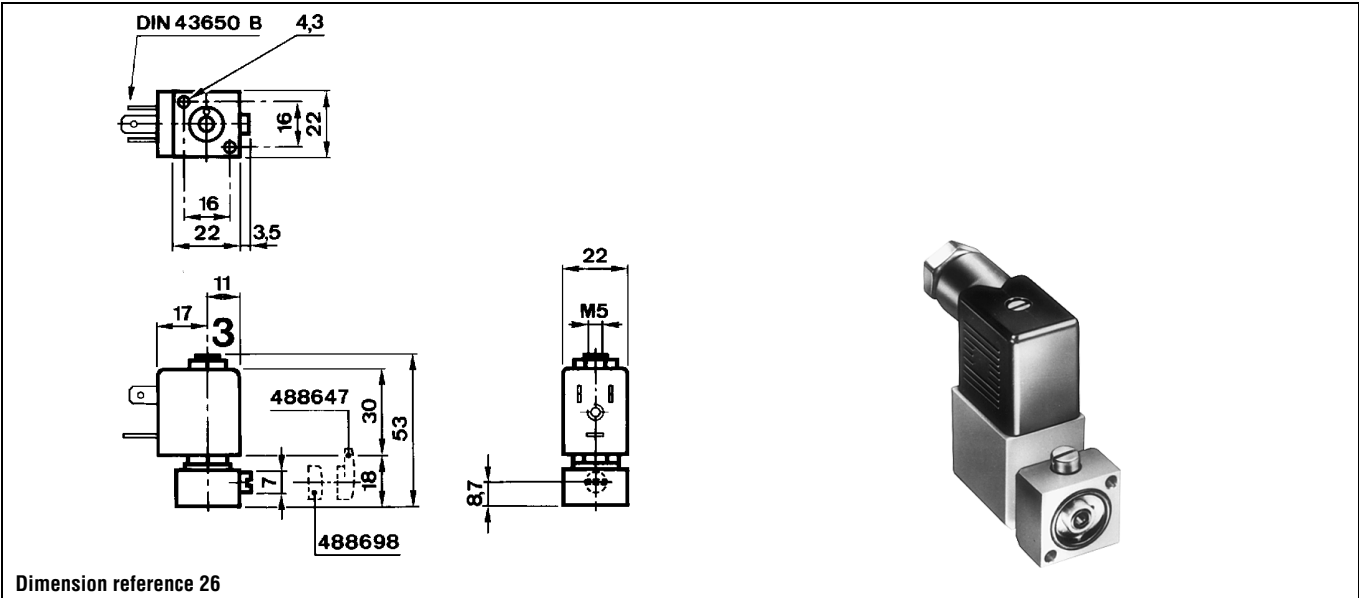
SB	1.5	0.9	2.4	70	0	7	7	75	75	75	FKM	-	131M74	8993	488980	2.5	2	125	1	26
	1.5	0.9	2.4	70	0	7	7	75	75	75	FKM	-	131M7450	1 8993	488980	2.5	2	125	1	26

Table continued on page 144

Notes:

- * See Electrical Parts Group table at end of section
- 1. Manual override standard

General application valves 3/2 - Direct operated

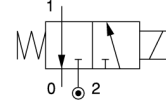


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

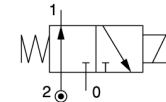
Brass body/Sub-base mounting

Normally closed



SB	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131FBF4GVM0	E131F4450	¹ 2995	481865	9	8	255	2	27
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM			4270	481000	8	8	375	2	
	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131FBF4GV00	E131F44	2995	481865	9	8	255	2	27
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM			4270	481000	8	8	375	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131FBF4JVM0	131F4650	¹ 2995	481865	9	8	255	2	27
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	255	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131FBF4JV00	131F46	2995	481865	9	8	255	2	27
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	255	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131FBF4LVM0	E131F4350	¹ 2995	481865	9	8	255	2	27
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM			4270	481000	8	8	375	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131FBF4LV00	E131F43	2995	481865	9	8	255	2	27
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM			4270	481000	8	8	375	2	

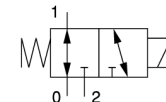
Normally open



Brass body/Sub-base mounting

SB	1.5	1.4	6	80	0	16	16	100	100	100	FKM	7132FBF4GV00	132F44	2995	481865	9	8	255	2	27
	1.5	1.4	6	80	0	16	16	120	120	120	FKM			4270	481000	8	8	375	2	
	2	1.8	6	125	0	10	10	100	100	100	FKM	7132FBF4JV00	132F46	2995	481865	9	8	255	2	27
	2	1.8	6	125	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	2.5	2.2	8.5	160	0	7	7	100	100	100	FKM	7132FBF4LV00	132F43	2995	481865	9	8	255	2	27
	2.5	2.2	8.5	160	0	7	7	120	120	120	FKM			4270	481000	8	8	375	2	

Universal



Brass body/Sub-base mounting

SB	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133FBF4GVM0	E133F4450	¹ 2995	481865	9	8	255	2	27
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133FBF4GV00	E133F44	2995	481865	9	8	255	2	27
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	375	2	
	2	2.5	6	140	0	7	7	100	100	100	FKM	7133FBF4JVM0	133F4650	¹ 2995	481865	9	8	255	2	27
	2	2.5	6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	375	2	
	2	2.5	6	140	0	7	7	100	100	100	FKM	7133FBF4JV00	133F46	2995	481865	9	8	255	2	27
	2	2.5	6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	375	2	
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133FBF4LVM0	E133F4350	¹ 2995	481865	9	8	255	2	27
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	375	2	

Table continued on page 146

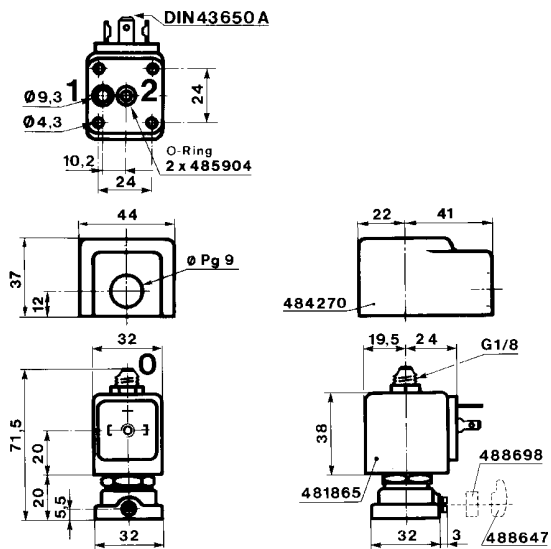
Notes:

* See Electrical Parts Group table at end of section

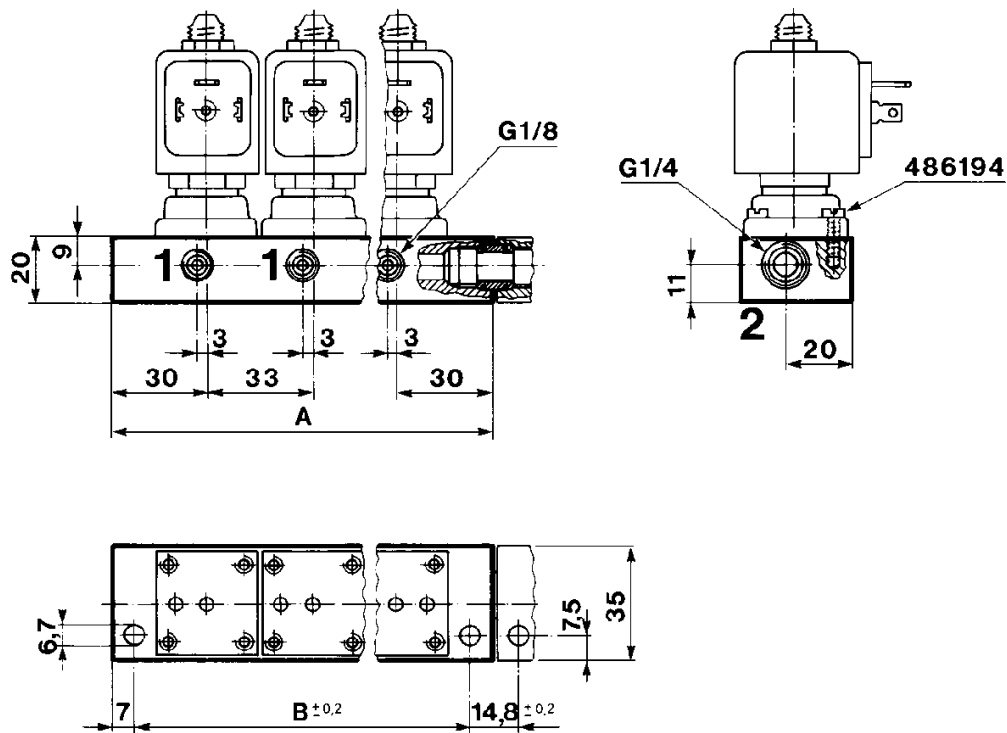
1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated



Dimension reference 27



Quantity of valves by assembly	Reference numbers	A mm	B mm	Wt. (g)
2	486162	93	79	150
3	486163	126	112	210
5	486164	192	178	420

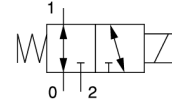
Associated sub-base diagram

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max DC	Max AC	Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Sub-base mounting

Universal



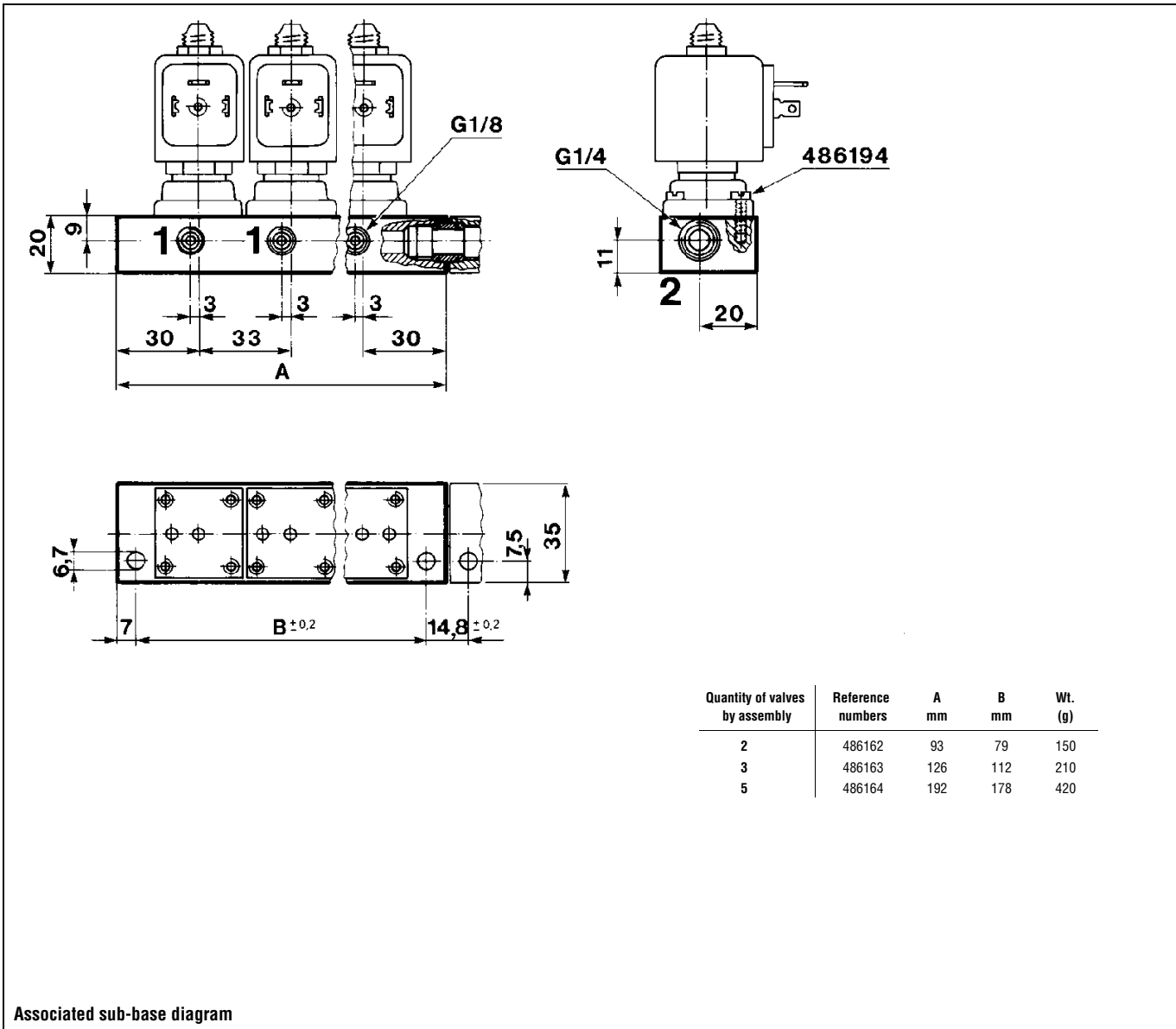
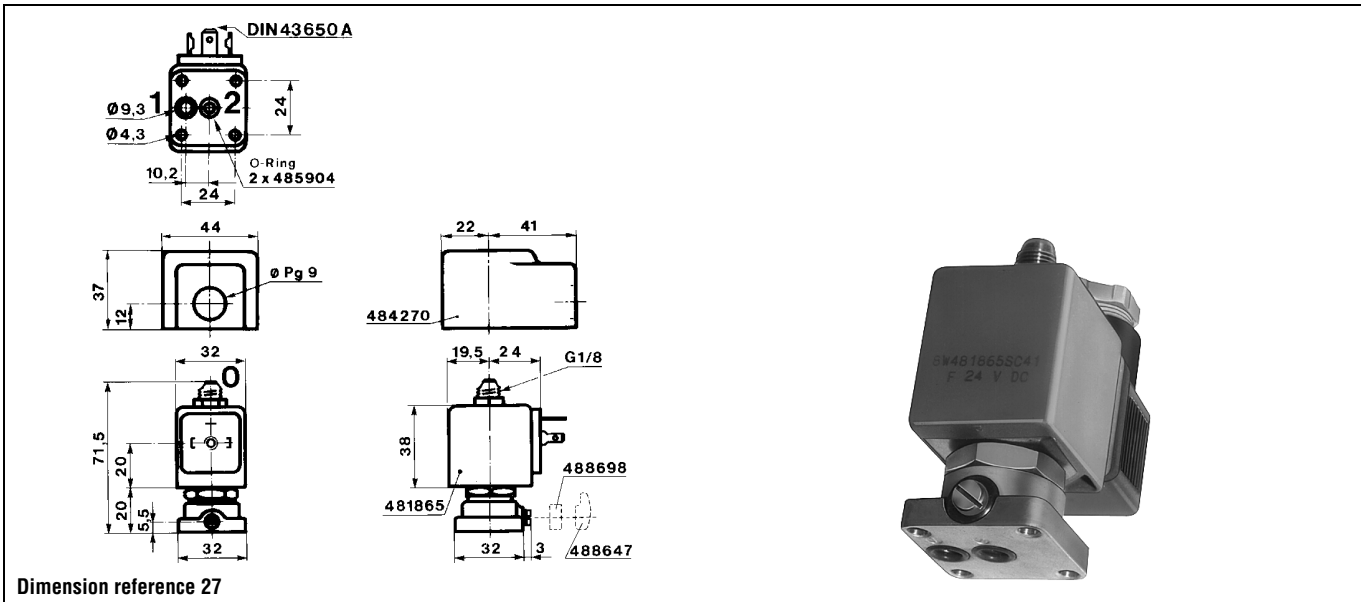
SB	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133FBF4LV00	E133F43	2995	481865	9	8	255	2	27
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	375	2	

Table continued on page 148

Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Direct operated

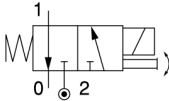


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Delrin body/Sub-base mounting

Normally closed

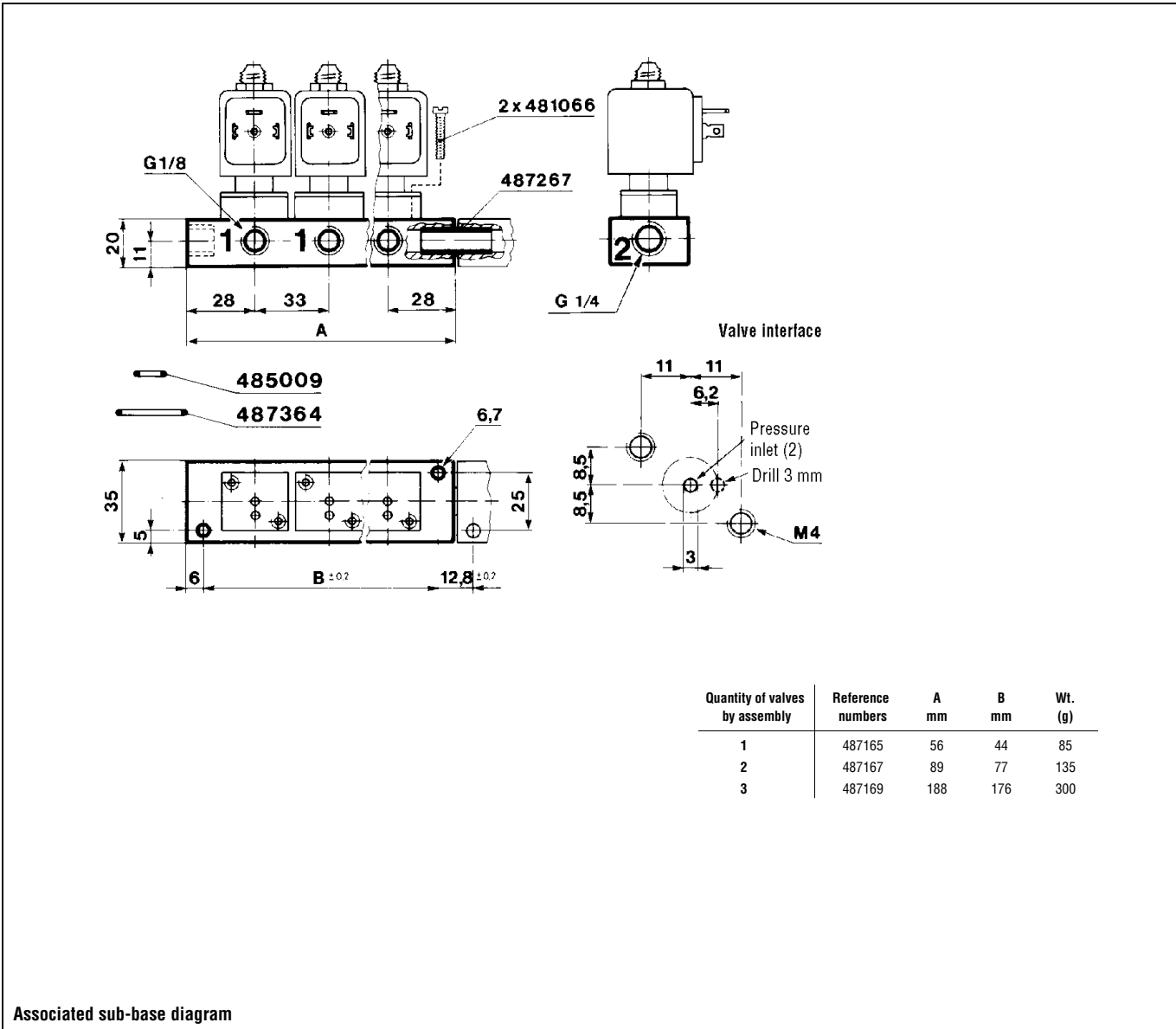
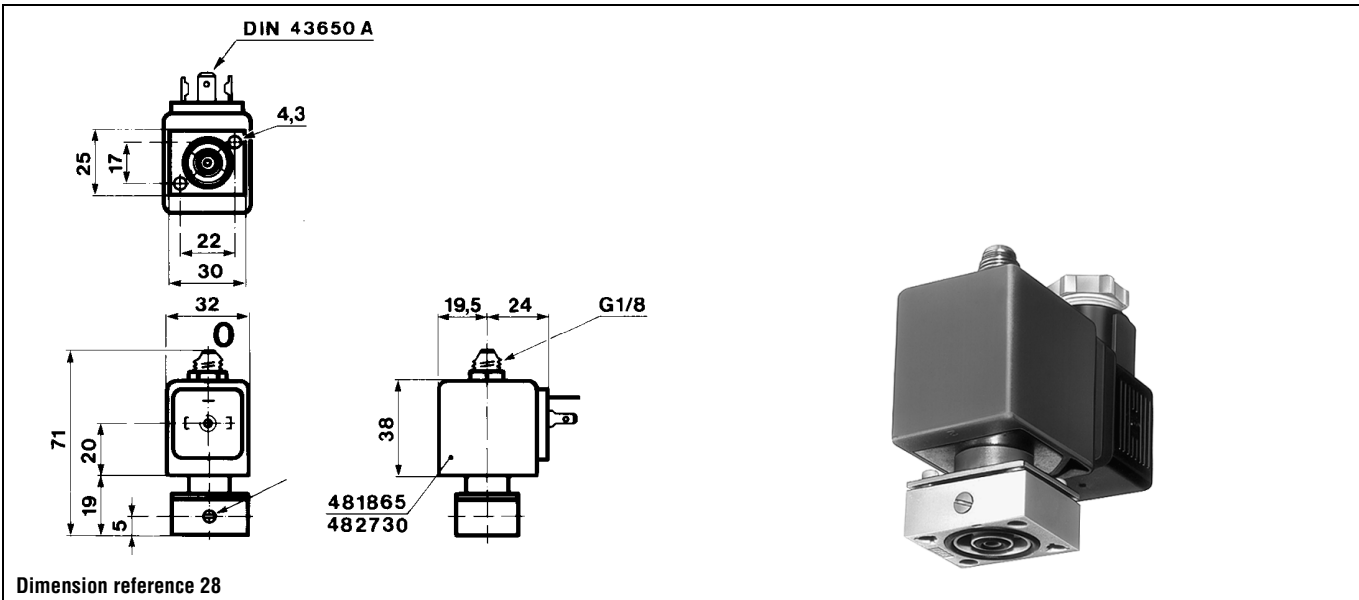


SB	2	2	6.5	140	0	10	10	50	-	-	FKM	7131FDF2JV00	E131F26	1	2995	481865	2	-	8	200	2	28
	2	2	6.5	140	0	10	10	50	-	-	FKM				2995	482730	7	6	200	2		

Notes:

- * See Electrical Parts Group table at end of section
- 1. Manual override standard
- 2. 20% Switch-on - max. 2 min.

General application valves 3/2 - Direct operated



General application valves for dry or lubricated air, neutral gases and liquids

3/2

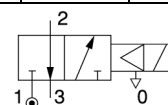


Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Anod. aluminium body/Pipe mounting

Normally closed



1/4	6.5	-	-	750	1	10	-	75	-	-	NBR	7331BAG2KNL2	331B7480	2995	482740	1.6	-	510	6	20
	6.5	10	-	645	1	10	-	75	-	-	NBR	-	331B7490	¹ -	483580.01 ²	0.4	-	485	7	80
	6.5	-	-	750	1	10	10	75	-	-	NBR	7331BAG2KNMO	E331B74	³ 2995	481865	9	8	510	2	20
	8	10	10	750	1	40	40	75	-	75	NBR	7331BAG2KN00	331B02	⁴ 2995	481865	9	8	880	2	23
	8	10	10	750	1	40	40	75	-	75	NBR			4270	481000	8	8	1000	2	

Table continued on page 152

Notes:

* See Electrical Parts Group table at end of section

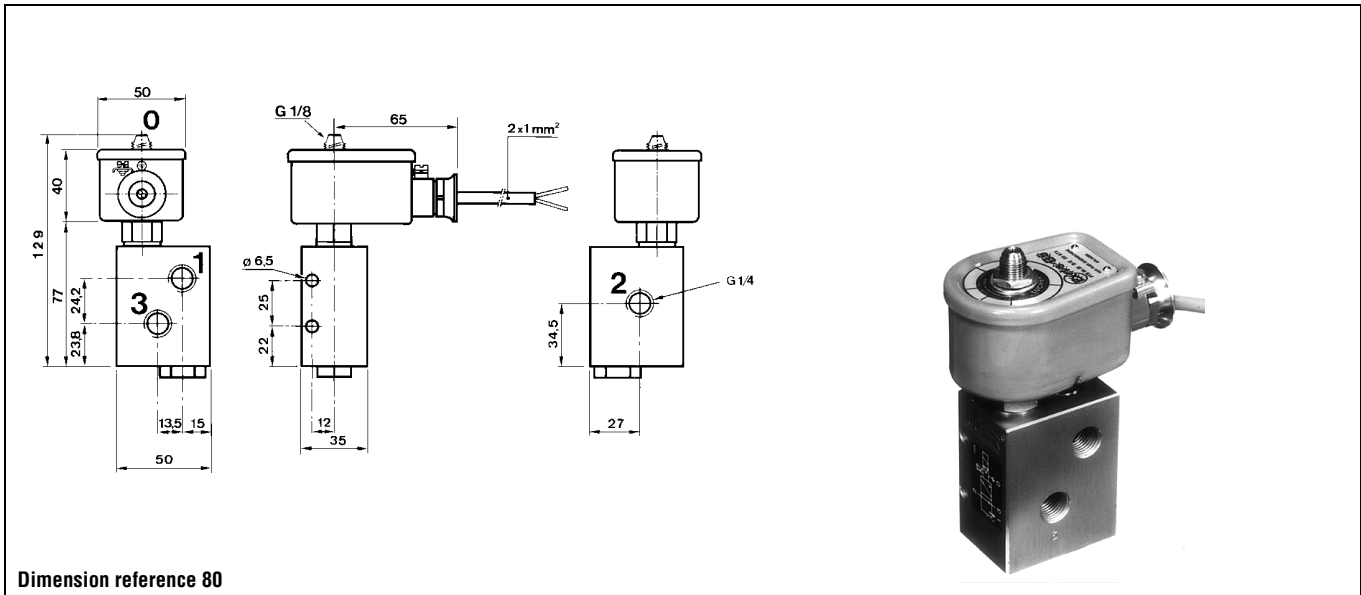
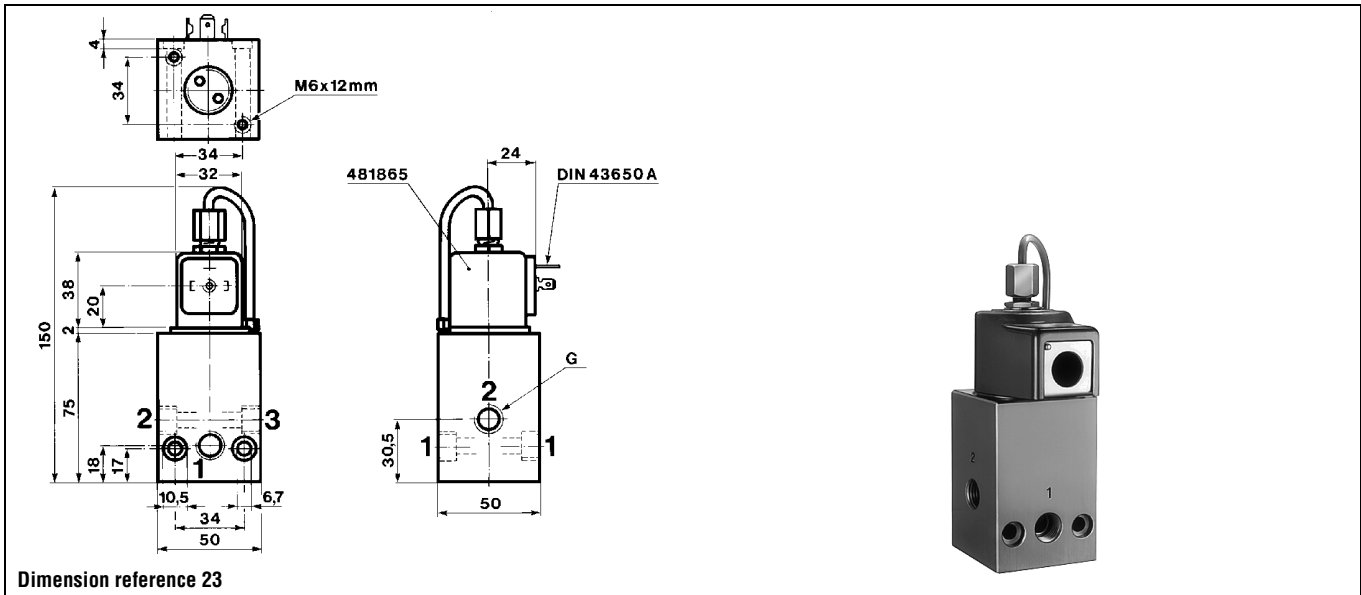
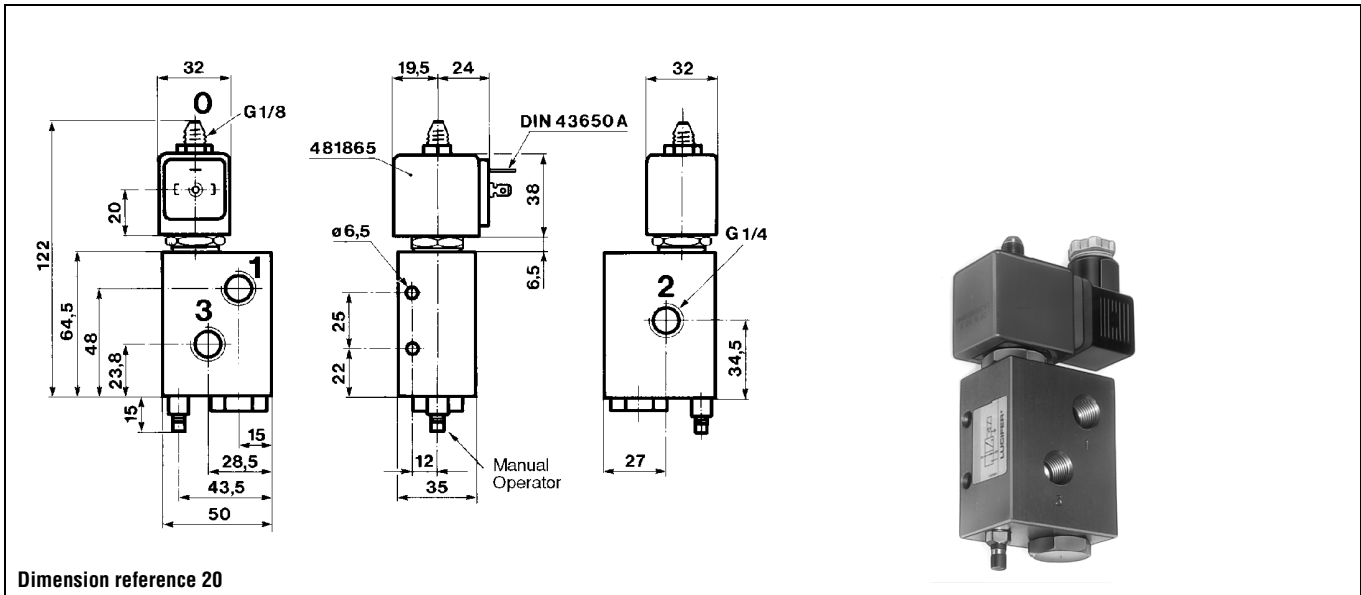
1. Other coil-housing available: 488650.01, 488660.01, 488670.01 (refer to electrical parts at end of this section)

2. This reference no. is for the complete electrical part (coil + housing)

3. Manual override standard

4. Pilot seat discs from Kel-F (PCTFE); valve with pilot return pipe

General application valves 3/2 - Pilot operated

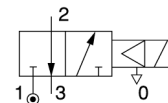


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

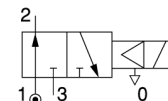
Anod. aluminium body/Pipe mounting

Normally closed



1/4	8	20	20	1100	1	15	15	75	-	75	NBR	7331BAG2QN00	E331B01	2995	481865	9	8	880	2	21
	8	20	20	1100	1	15	15	75	-	75	NBR			4270	481000	8	8	1000	2	
1/2	14	-	-	2500	1	15	15	75	-	-	NBR	7331BAG4QN00	E331B21	2995	481865	9	8	980	2	24
	14	-	-	2500	1	15	15	75	-	-	NBR			4270	481000	8	8	1100	2	

Normally open



Anod. aluminium body/Pipe mounting

1/4	8	10	10	750	1	40	40	75	-	75	NBR	7332BAG2KN00	332B02	2995	481865	9	8	880	2	25
	8	10	10	750	1	40	40	75	-	75	NBR			4270	481000	8	8	1000	2	

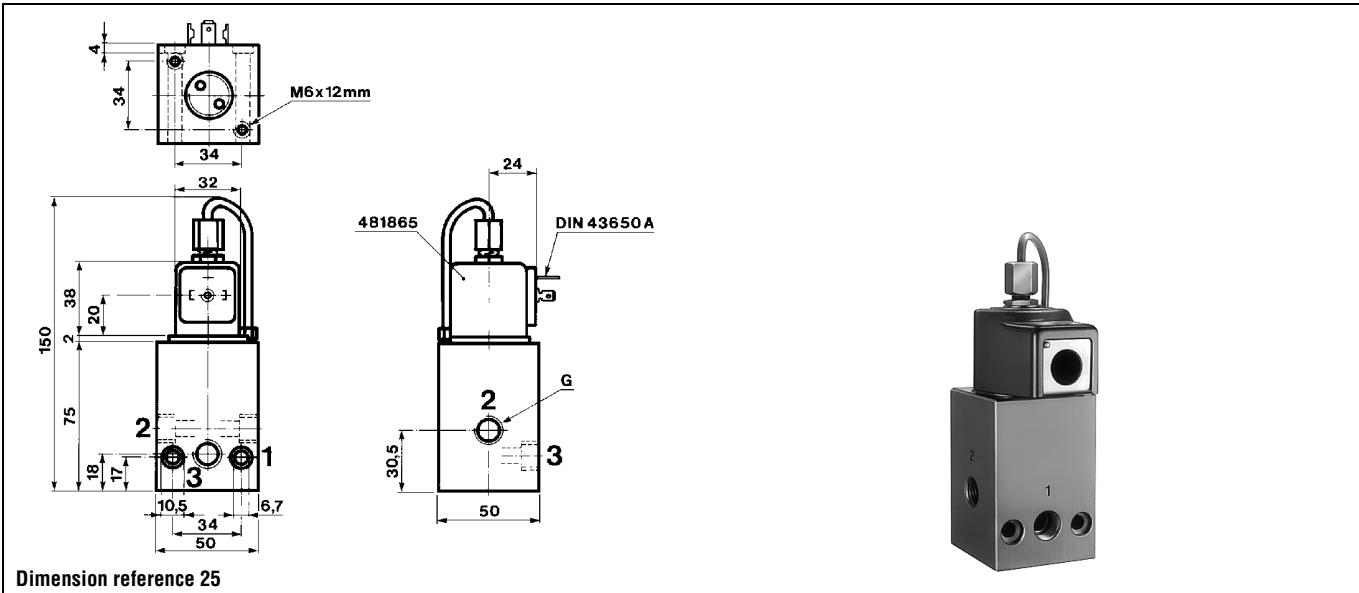
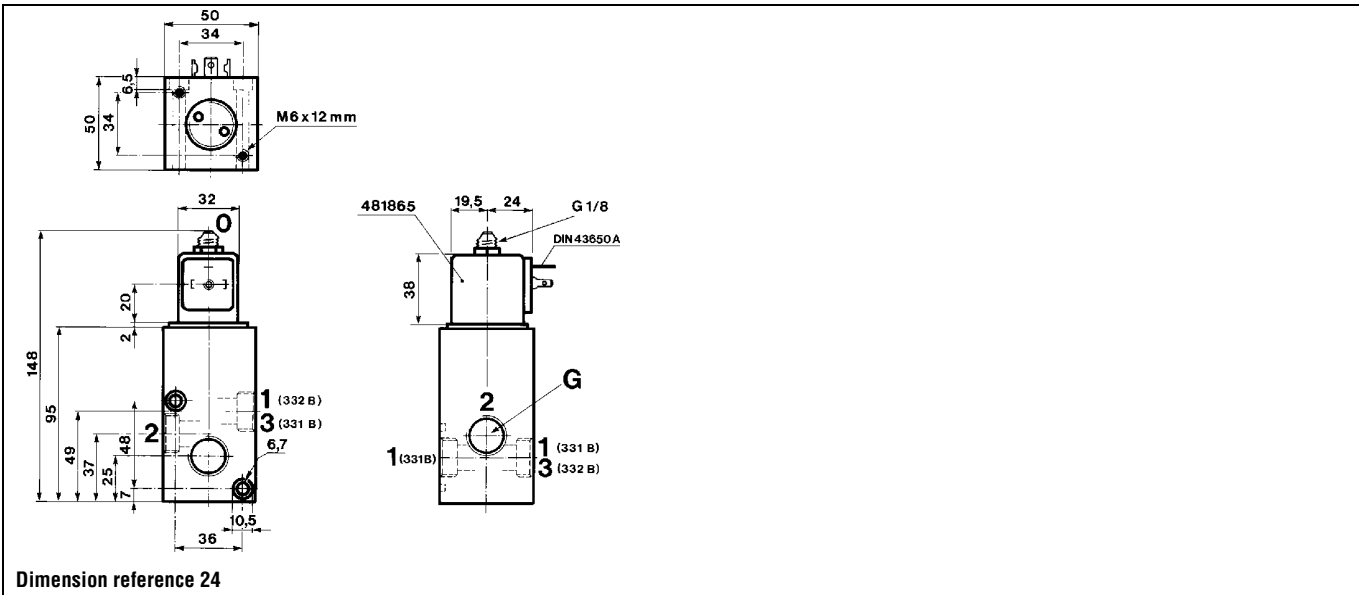
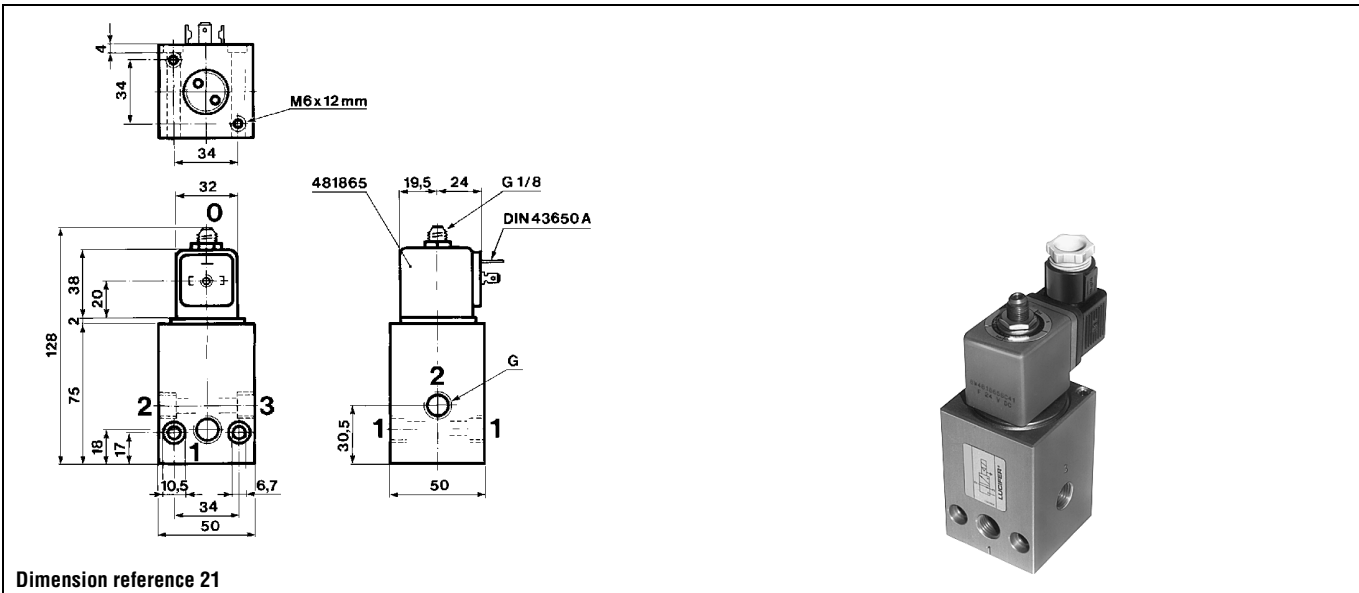
Table continued on page 154

Notes:

* See Electrical Parts Group table at end of section

1. Pilot seat discs from Kel-F (PCTFE); valve with pilot return pipe

General application valves 3/2 - Pilot operated

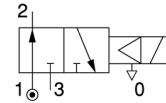


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Anod. aluminium body/Pipe mounting

Normally open



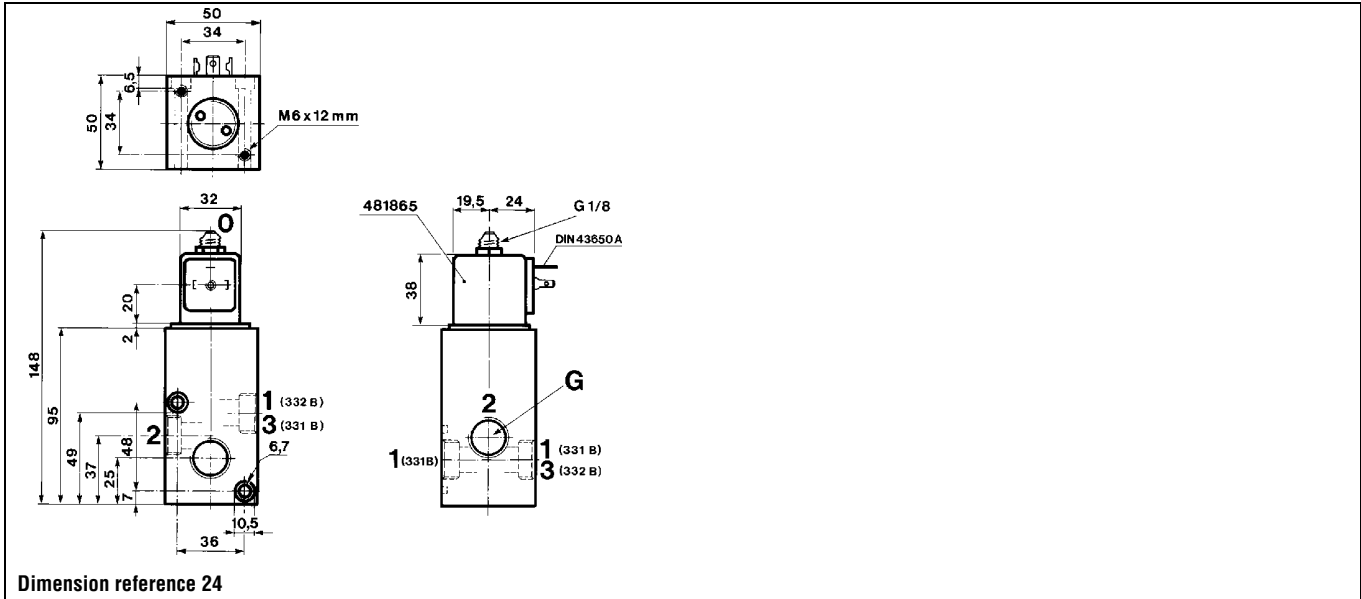
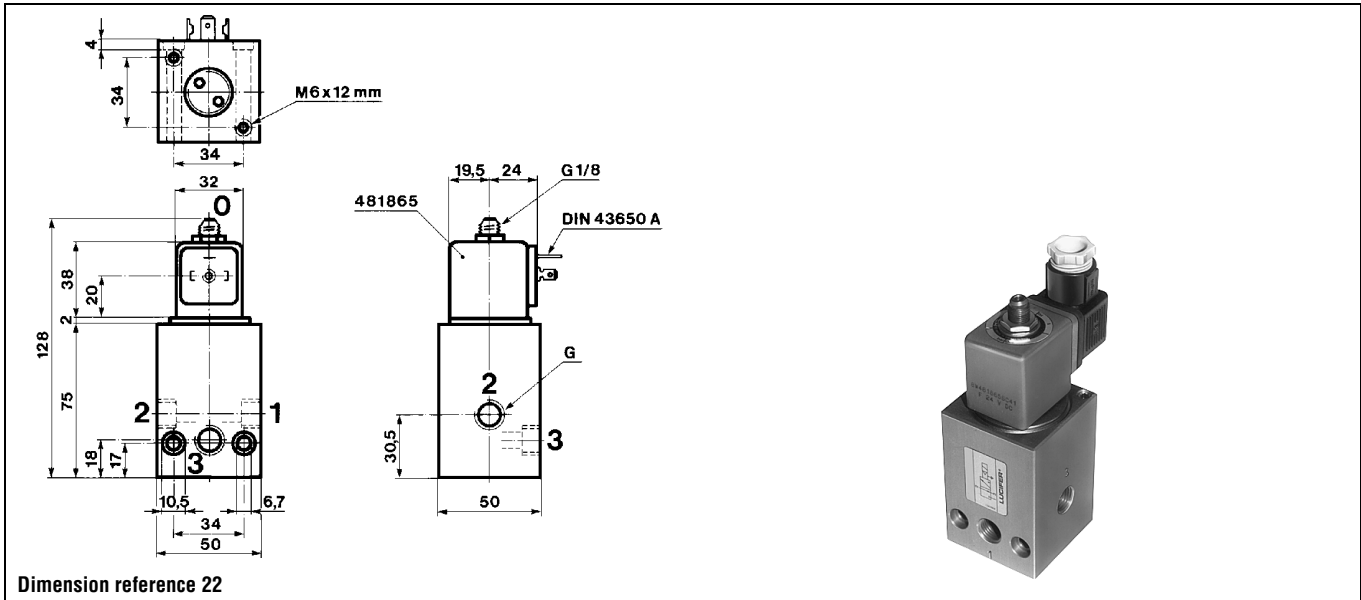
1/4	8	20	20	1100	1	15	15	75	-	75	NBR	7332BAG2QN00	E332B01	2995	481865	9	8	880	2	22
	8	20	20	1100	1	15	15	75	-	75	NBR			4270	481000	8	8	1000	2	
1/2	14	-	-	2500	1	15	15	75	-	-	NBR	7332BAG4QN00	E332B21	2995	481865	9	8	980	2	24
	14	-	-	2500	1	15	15	75	-	-	NBR			4270	481000	8	8	1100	2	

Table continued on page 156

Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Pilot operated

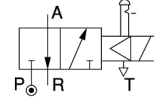


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)	Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC		
G		kv	Qmax	Qn		DC	AC												

Anod. aluminium body/Sub-base mounting

Normally closed



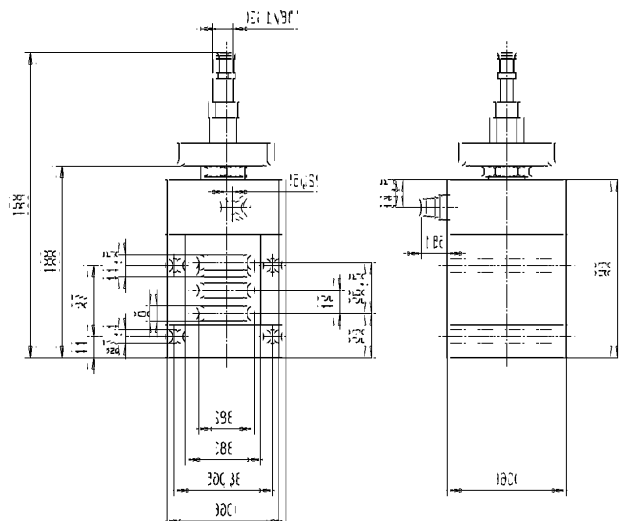
1/2	15	56	-	5000	0.5	10	10	75	-	-	NBR	7331LAV4TN1D	E331L21001D	-	483250	8	8	1715	5	3854
-----	----	----	---	------	-----	----	----	----	---	---	-----	--------------	-------------	---	--------	---	---	------	---	------

Table continued on page 158

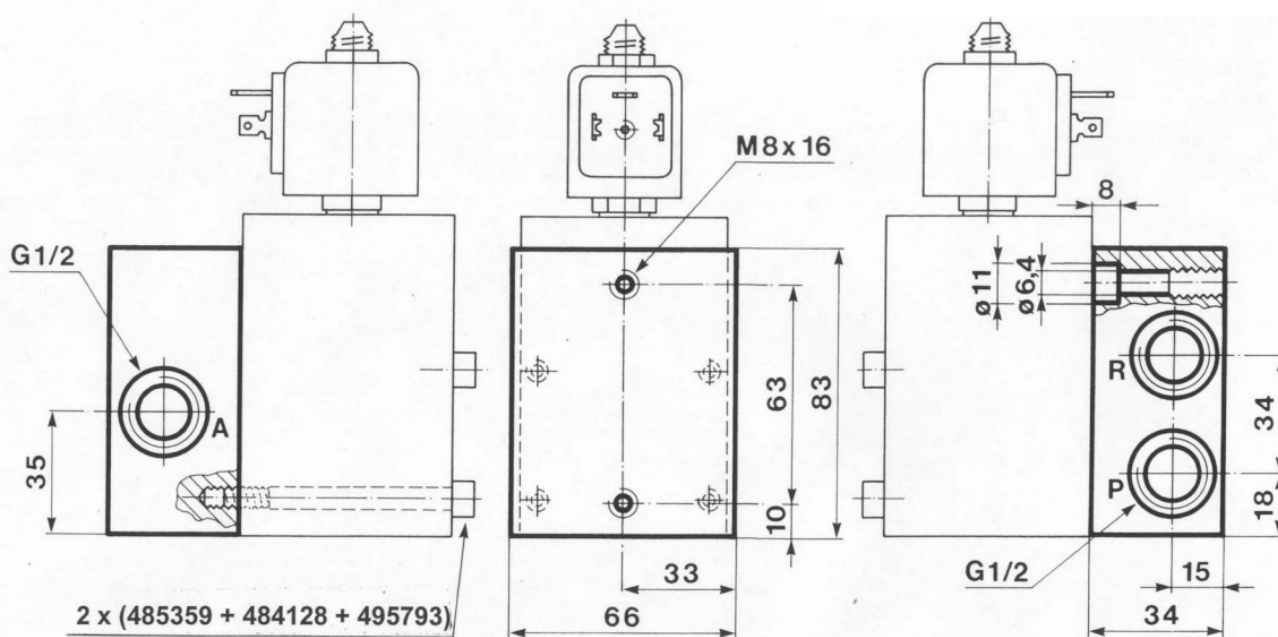
Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Pilot operated



Dimension reference 3854



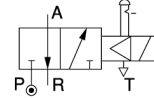
Associated sub-base diagram

General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
												OR								
		Liquids kv	Qmax	Gases Qn	Min	Max DC	AC	Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

Anod. aluminium body/Sub-base mounting

Normally closed



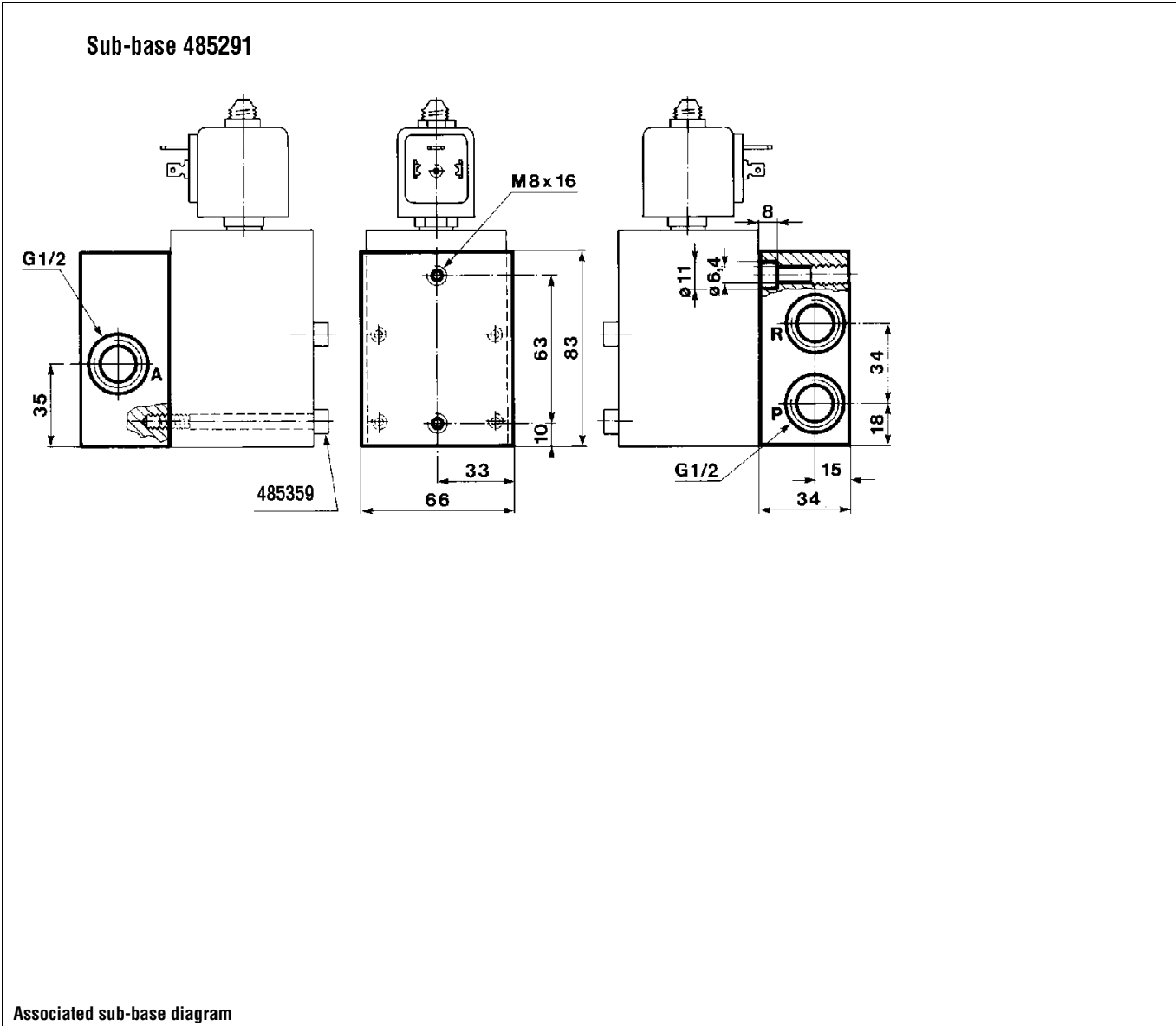
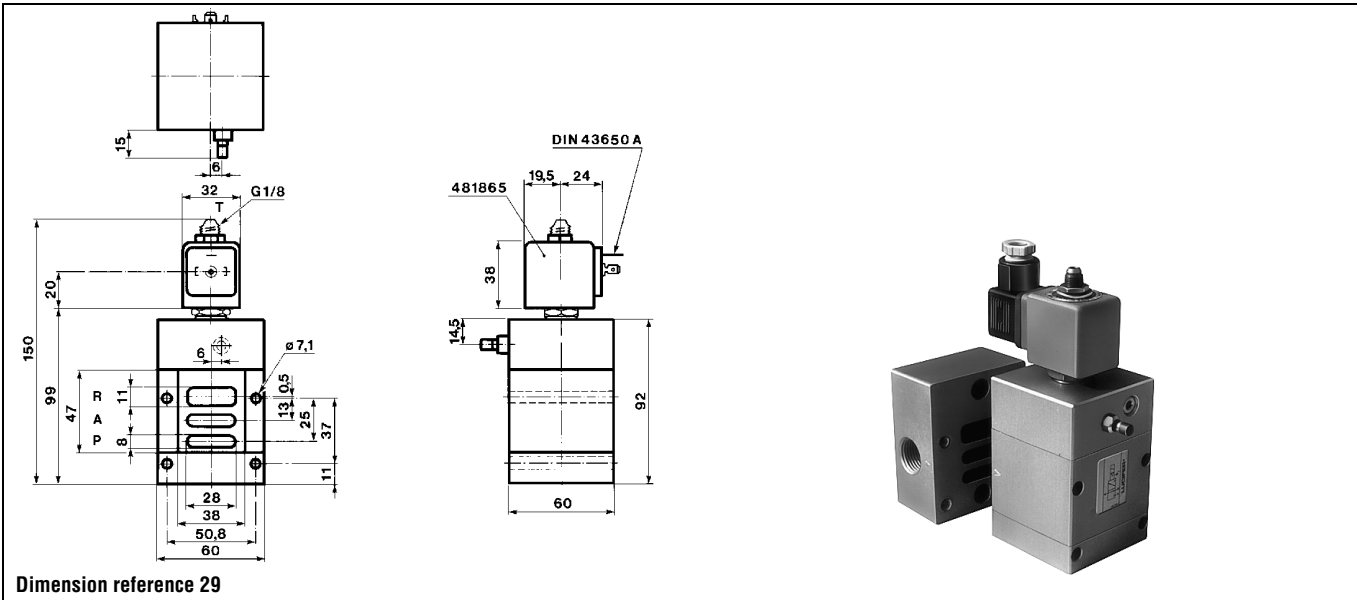
1/2	15	-	-	5000	0.5	10	10	75	-	-	NBR	7331LAV4TNM0	E331L21	1	2995	481865	9	8	880	2	29
	15	-	-	5000	0.5	10	10	75	-	-	NBR				4270	481000	8	8	1100	2	

Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

General application valves 3/2 - Pilot operated



Electrical parts options with 3/2 general application valves for dry or lubricated air, neutral gases and liquids

El.part Group	Coil	Protection class	Protection class / Temperature class	Power		Coil Order No.	Coil Ref. No.	Connection	Housing Order No.	Housing Ref. No.	Ambient temp.	
				DC	AC						min.	max.
1	22 mm	IP 65	Class F	2.5 W	2 W	DA01	488980	for DIN plug	A0	8993	-40	50
		IP 65	Class F	2.5 W	2 W	DA02	481045	with DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA03	481180	for DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA04	481530	with DIN plug	A0	8993	-40	50
		IP 65	EEx m II T4	5 W	4 W	VA01	482605	with 1500mm cable	00	-	-40	50
		IP 65	EEx m II T5	2.5 W	2 W	VA02	482606	with 1500mm cable	00	-	-40	50
2	32 mm (Std)	IP 65	Class F	9 W	8 W	DZ02	481865	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ03	482725	with DIN plug	N1	2995	-40	50
		IP 65	Class H	9 W	8 W	DZ04	492453	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ05	492726	with DIN plug	N1	2995	-40	50
		IP 65	Class F, 50/60 Hz	-	9 W	DZ06	483510	for DIN plug	N1	2995	-40	50
		IP 65		-	9 W	DZ07	482635	with DIN plug	N1	2995	-40	50
		IP 65	EEx m II T4	9 W	8 W	HZ05	492670	with 3000mm cable	00	-	-40	40
		IP 65	Class H	14 W	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
	50 mm (Std)	IP 10 / IP 44	Class F	8 W	8 W	EZ01	481000	screw-terminals	E0	4270	-40	50
		IP 10 / IP 44	Class H	8 W	8 W	EZ02	485100	screw-terminals	E0	4270	-40	50
		IP 10 / IP 44	Class H	14 W	14 W	EZ92	486265	screw-terminals	E0	4270	-40	50
		IP 67	Class F, M20x1.5	8 W	8 W	EZ01	481000	screw-terminals	G1	4538	-40	50
		IP 65	EEx m II T5/T4	9 W	8 W	VZ01	492070	with 1500mm cable	00	-	-40	40/65
		IP 67	EEx me II T4	8 W	8 W	HZ06	483371	for cable connection	00	-	-40	65
		IP 66	EEx me II T3/T4	11 W	9 W	VZ03	492190	for cable connection	00	-	-40	75/40
3	32 mm	IP 65	Class H	-	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
4	50 mm (impulse)	IP 10 / IP 44	Class F	-	11 W	MZ01	484990	screw-terminals	E1	4269	-40	50
		IP 10 / IP 44	Class F	13 W	-	MZ02	485400	screw-terminals	E1	4269	-40	50
5	50 mm	IP 54	EEx d IIC T4/T5/T6	8 W	8 W	HZ08	483250	for cable 1/2 NPT	00	-	-40	80/75/60
6	32 mm (Miniwatt)	IP 65	Class F	1.6 W	-	DZ10	482740	for DIN plug	N1	2995	-40	50
		IP 65	Class F	1.6W	-	DZ11	482745	with DIN plug	N1	2995	-40	50
	50 mm (Miniwatt)	IP 67	EEx me II T5	2.5 W	-	VZ04	491117	for cable connection	00	-	-40	65
		IP 67	EEx m II T5/T4	2.5 W	2.5 W	VZ05	492370	with 1500mm cable	00	-	-40	40/65
		IP 66	EEx me II T6/T5	2.5 W	2.5 W	VZ06	492390	for cable connection	00	-	-40	40/75
7	32 mm	IP 65	EEx ia II C T6	0.4 W	-	DZ12	483580.01	for DIN plug	N1	2995	-40	55
		IP 65		0.4 W	-	DZ13	483960.01	with DIN plug	N1	2995	-40	55
	50 mm	IP 66	EEx ia II C T6	0.4 W	-	VZ07	488650.01	for cable connection	00	-	-40	65
		IP 67		0.4 W	-	VZ08	488660.01	with 2000mm cable	00	-	-40	65
		IP 65		0.4 W	-	VZ09	488670.01	with DIN plug	00	-	-40	65

Note: This table is indicative only. Please contact your distributor to confirm your selection.

General application valves for dry or lubricated air, neutral gases and liquids

3/2

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/8	1.2 to 2.5	15.0	124
			1/4	1 to 4.5	30.0	126
			SB	1 to 2.5	15.0	136
		Normally open	1/4	1.5 to 3	16.0	132
			SB	1.5 to 2.5	16.0	144
		Universal	1/8	1.5 to 2.5	10.0	134
			1/4	1.5 to 3	10.0	134
			SB	1.5 to 2.5	10.0	144
		Magnetic latch control	1/4	1.5 to 2.5	16.0	136
	Delrin body	Normally closed	SB	2	10.0	148
Pilot operated	Anod. aluminium body	Normally closed	1/4	6.5 to 8	40.0	150
			1/2	14 to 15	15.0	152
		Normally open	1/4	8	40.0	152
			1/2	14	15.0	154

Notes:

Direct operated and magnalift valves: pressure range from 0 to max pressure.

Pilot operated valves: pressure range from 0.3 to 0.5 bar to max. pressure (refer to tables).

General application valves for dry or lubricated air, neutral gases and liquids

3/2

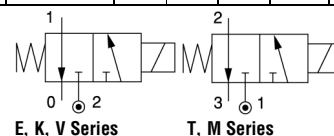


Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Pipe mounting

Normally closed



1/8	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M15	8993	488980	2.5	2	150	1	14	
	(1.5)	(0.9)	(2.2)	(70)	0	10	10	75	75	75	FKM			8993	488980	2.5	2	150	1		
	1.5	1.1	2.4	70	0	7	7	75	75	75	FKM	-	131M14	8993	488980	2.5	2	150	1	14	
	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131KBG1GV00	E131K14	2995	481865	9	8	325	2	17	
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM			4270	481000	8	8	445	2		
	2	2	6.5	140	0	-	10	75	75	75	FKM	7131ZBG1JV00	-	2995	481865	9	8	270	2	7894	
	2	2	6.5	140	0	10	10	75	75	75	FKM			4270	481000	8	8	390	2		
	2	2	6.5	140	0	10	10	75	75	75	FKM			2995	482730	7	6	270	2		
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG1JVM0	131K1650	1	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2		
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG1JV00	131K16	2995	481865	9	8	310	2	17	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2		
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG1LV00	E131K13	2995	481865	9	8	325	2	17	
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM			4270	481000	8	8	445	2		

Table continued on page 126

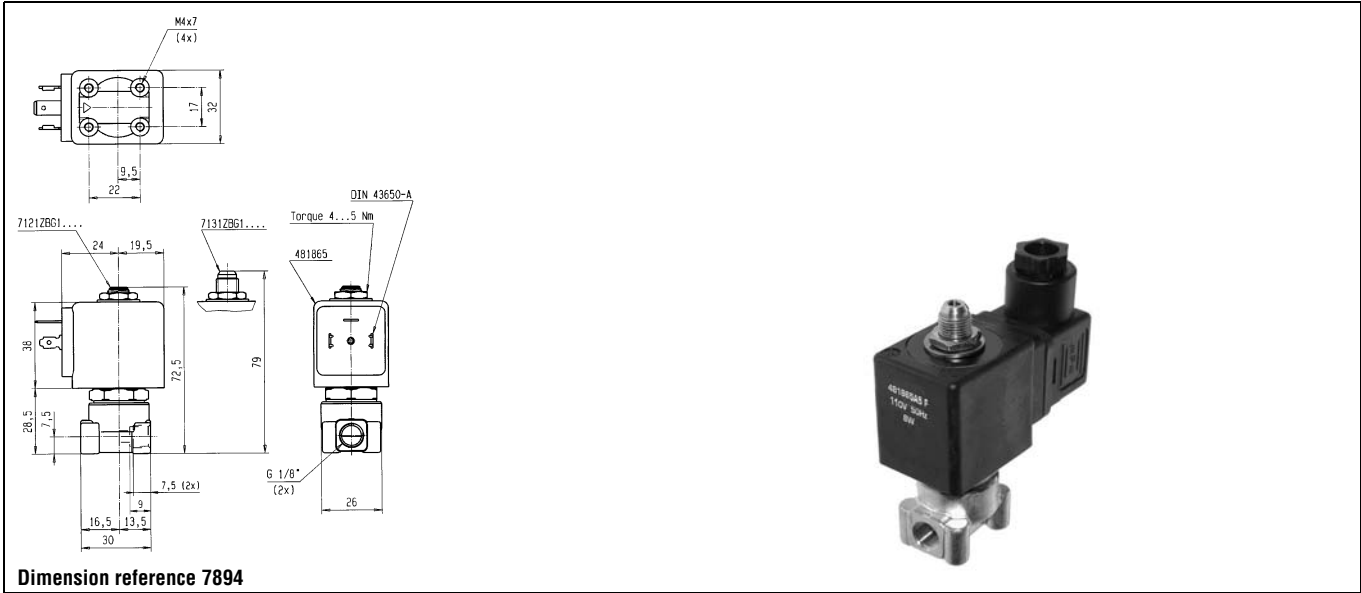
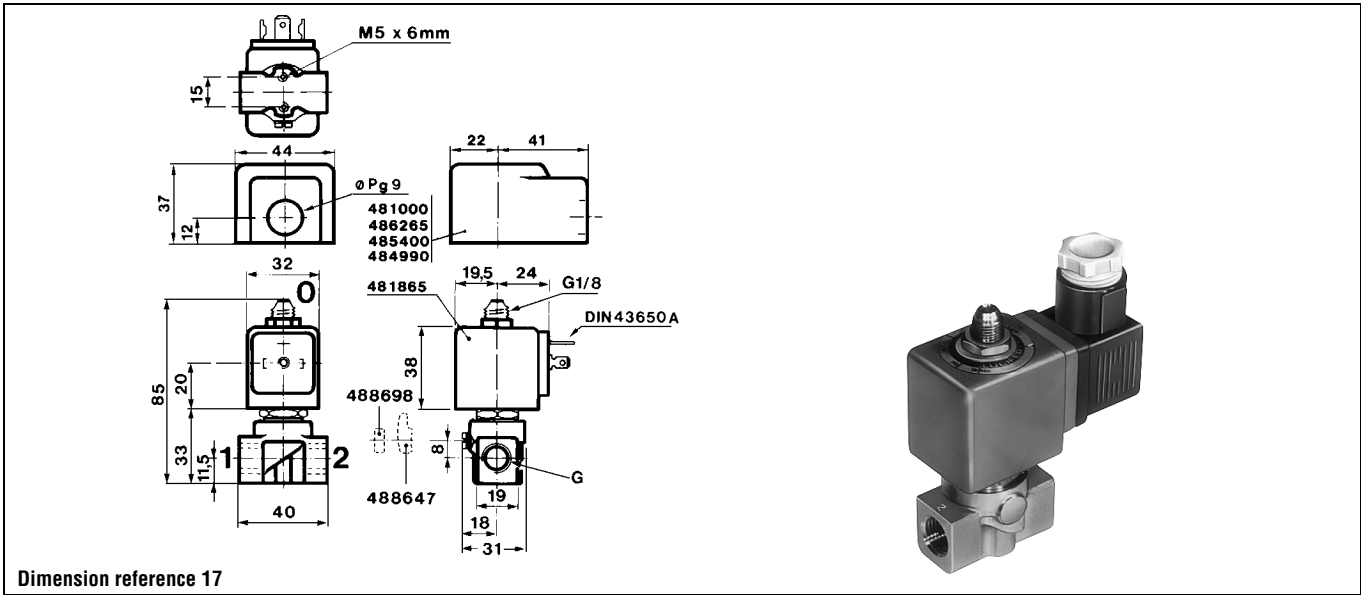
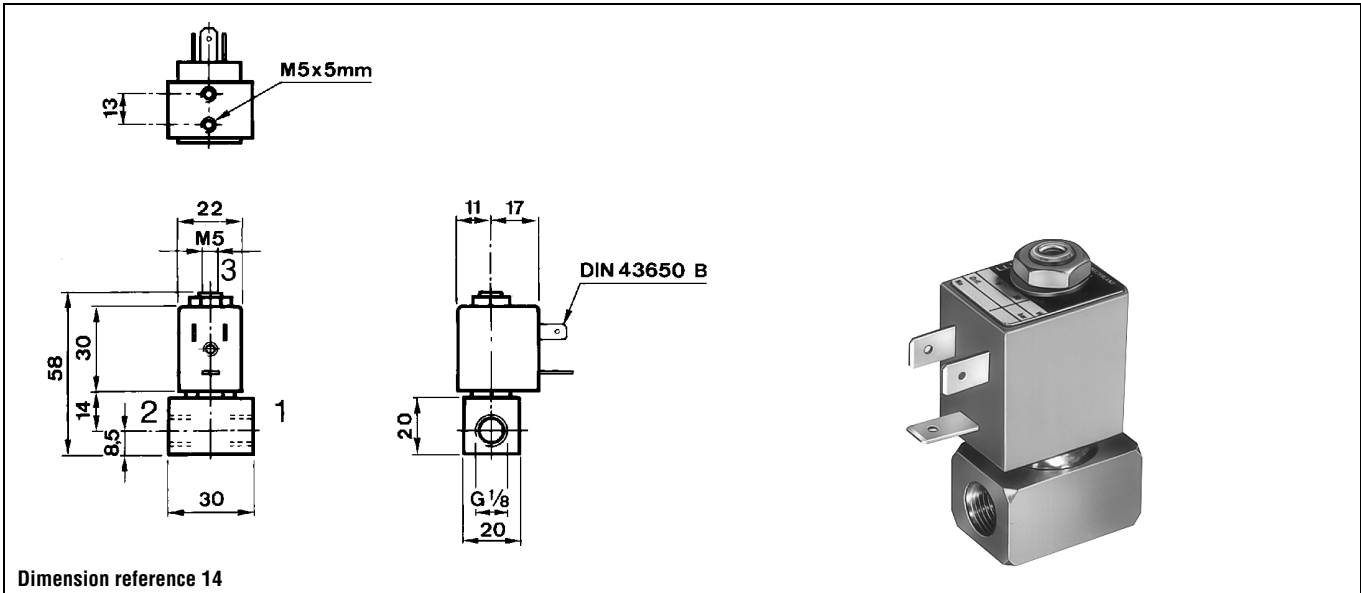
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

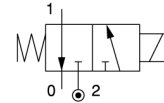
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

Normally closed



Brass body/Pipe mounting

1/4	1	0.6	-	38	0	10	-	75	75	75	FKM	7131KBG2CV90	131K0490	-	483580.01 ¹	0.4	-	285	7	77
	1.2	0.8	4.5	50	0	-	30	130	130	130	Ruby	7131KBG2ERM0	E131K6450 ²	4270	481000	-	8	430	2	17
	(1.5)	(1.5)	(9)	(80)	0	-	30	130	130	130	Ruby			4270	481000	-	8	430	2	
	1.2	0.8	4.5	50	0	30	-	140	140	140	Ruby			4270	486265	14	-	430	2	
	(1.5)	(1.5)	(9)	(80)	0	30	-	140	140	140	Ruby			4270	486265	14	-	430	2	
	1.2	0.8	4.5	50	0	-	30	130	130	130	Ruby	7131KBG2ER00	E131K64	4270	481000	-	8	430	2	17
	(1.5)	(1.5)	(9)	(80)	0	-	30	130	130	130	Ruby			4270	481000	-	8	430	2	
	1.2	0.8	4.5	50	0	30	-	140	140	140	Ruby			4270	486265	14	-	440	2	
	(1.5)	(1.5)	(9)	(80)	0	30	-	140	140	140	Ruby			4270	486265	14	-	440	2	
	1.5	1.5	4	80	0	7	-	75	75	75	FKM	7131KBG2GVL5	131K0480	2995	482740	1.6	-	310	6	17
	1.5	1.5	6	80	0	15	15	100	100	100	FKM	7131KBG2GVM0	E131K0450 ²	2995	481865	9	8	310	2	17
	1.5	1.5	6	80	0	15	15	120	120	120	FKM			4270	481000	8	8	430	2	
	1.5	1.5	6	80	0	15	15	100	100	100	FKM	7131KBG2GV00	E131K04	2995	481865	9	8	310	2	17
	1.5	1.5	6	80	0	15	15	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM	7131TBG2JVM0	131T2301 ²	2995	481865	9	8	400	2	18
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			2995	481865	9	8	400	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM	7131TBG2JV00	131T23	2995	481865	9	8	400	2	18
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			2995	481865	9	8	400	2	
	2	2.5	8	140	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	(3)	(4.5)	(9)	(355)	0	10	10	75	75	75	FKM			4270	481000	8	8	520	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG2JVM0	E131K0650 ²	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131KBG2JV00	E131K06	2995	481865	9	8	310	2	17
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM			2995	481865	9	8	310	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	

Table continued on page 128

Notes:

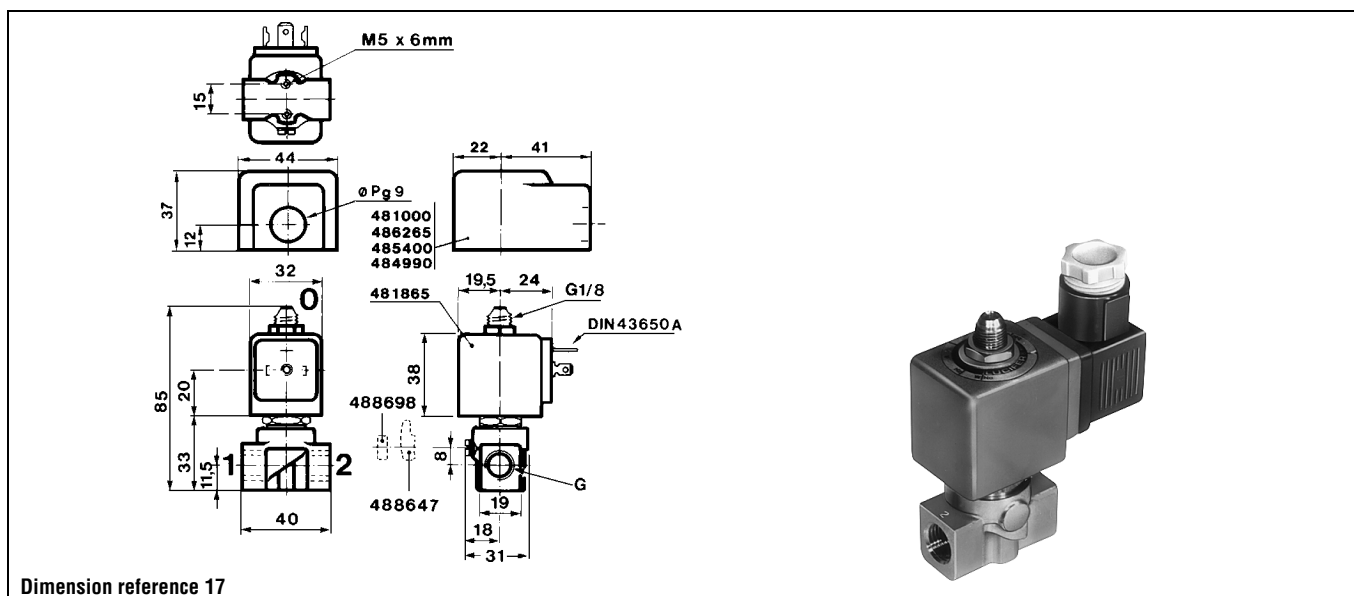
* See Electrical Parts Group table at end of section

1. Other coil-housing available: 488650.01, 488660.01, 4888670.01 (refer to electrical parts at end of this section)

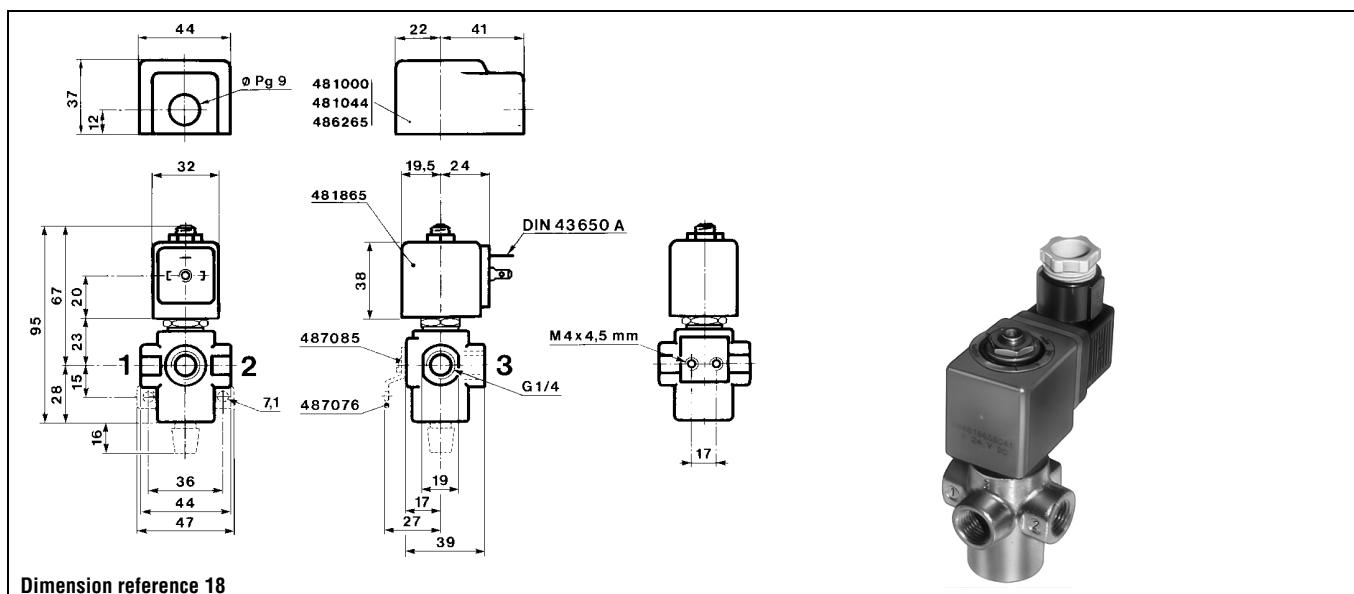
2. Manual override standard

Values shown within brackets are valid for exhaust port only.

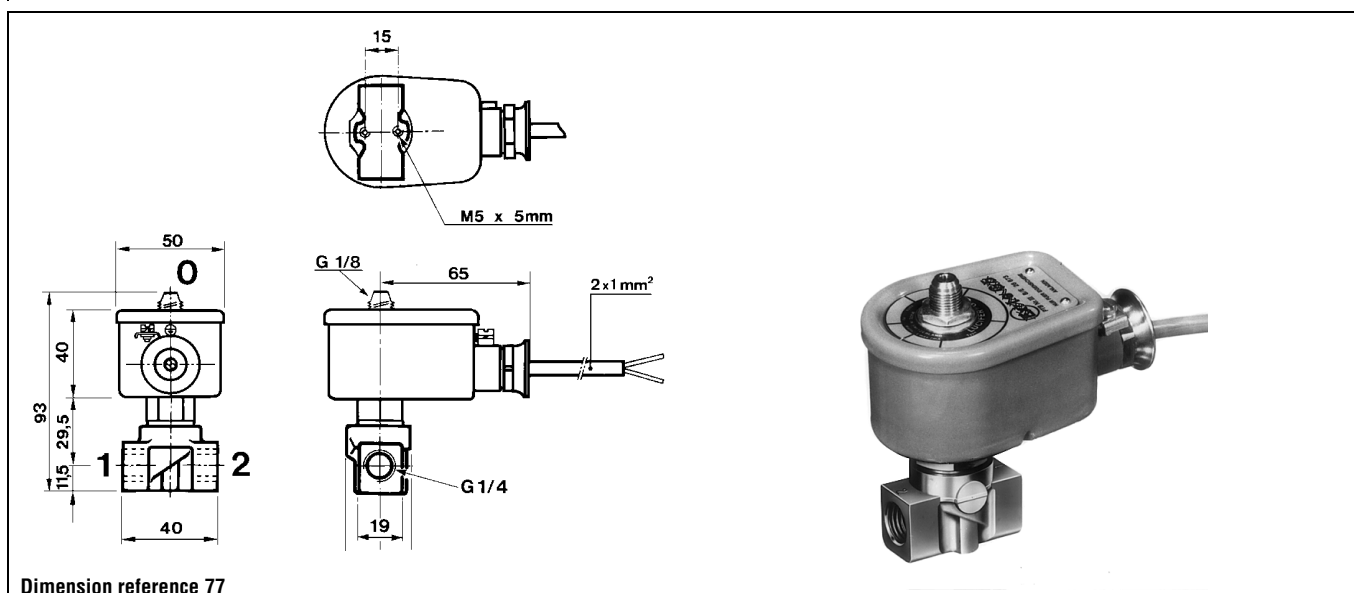
General application valves 3/2 - Direct operated



Dimension reference 17



Dimension reference 18

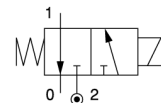


Dimension reference 77

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

Normally closed



1/4	2	2.5	8	140	0	10	10	80	80	80	PUR	7131KBG2JP1D	E131K06081D	¹	-	483250	8	8	1255	5	3845
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM	7131TBG2LVM0	131T2901	²	2995	481865	9	8	400	2	18
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				2995	481865	9	8	400	2	
	2.5	5.5	9.5	400	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	(3.5)	(3.5)	(8.5)	(220)	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM	7131TBG2LV00	131T29		2995	481865	9	8	400	2	18
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				2995	481865	9	8	400	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	(3.5)	(5.5)	(9.5)	(400)	0	7	7	75	75	75	FKM				4270	481000	8	8	520	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG2LVM0	E131K0350	²	2995	481865	9	8	310	2	17
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131KBG2LV00	E131K03		2995	481865	9	8	310	2	17
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	430	2	

Table continued on page 130

Notes:

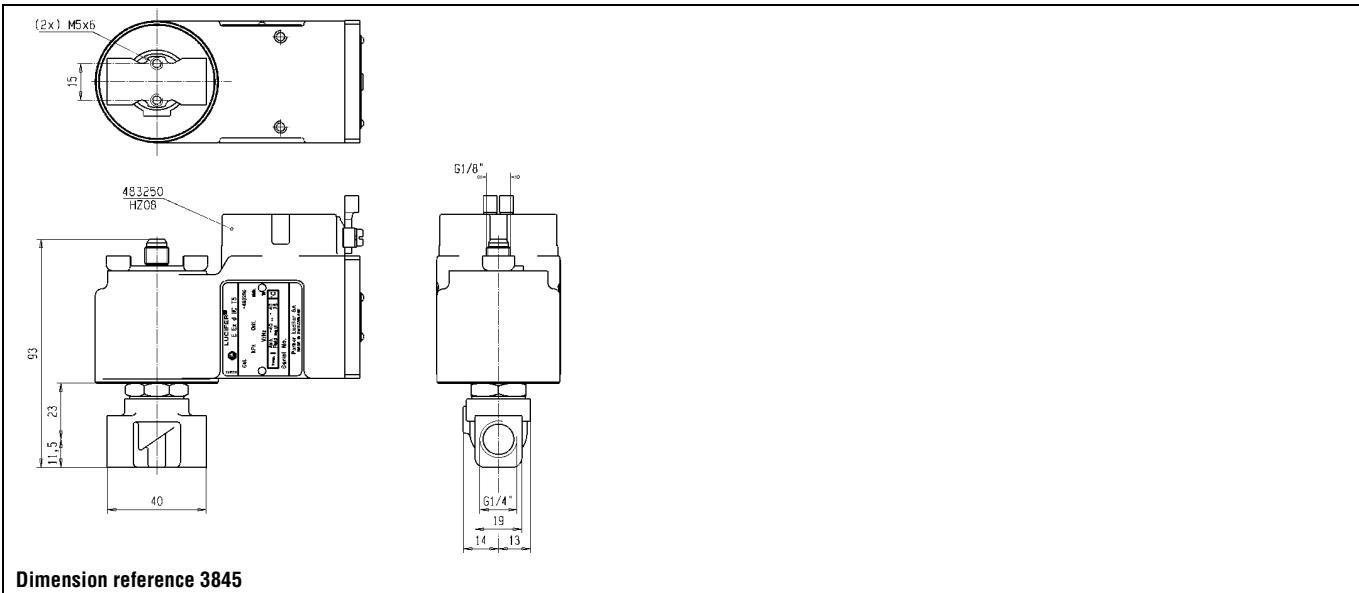
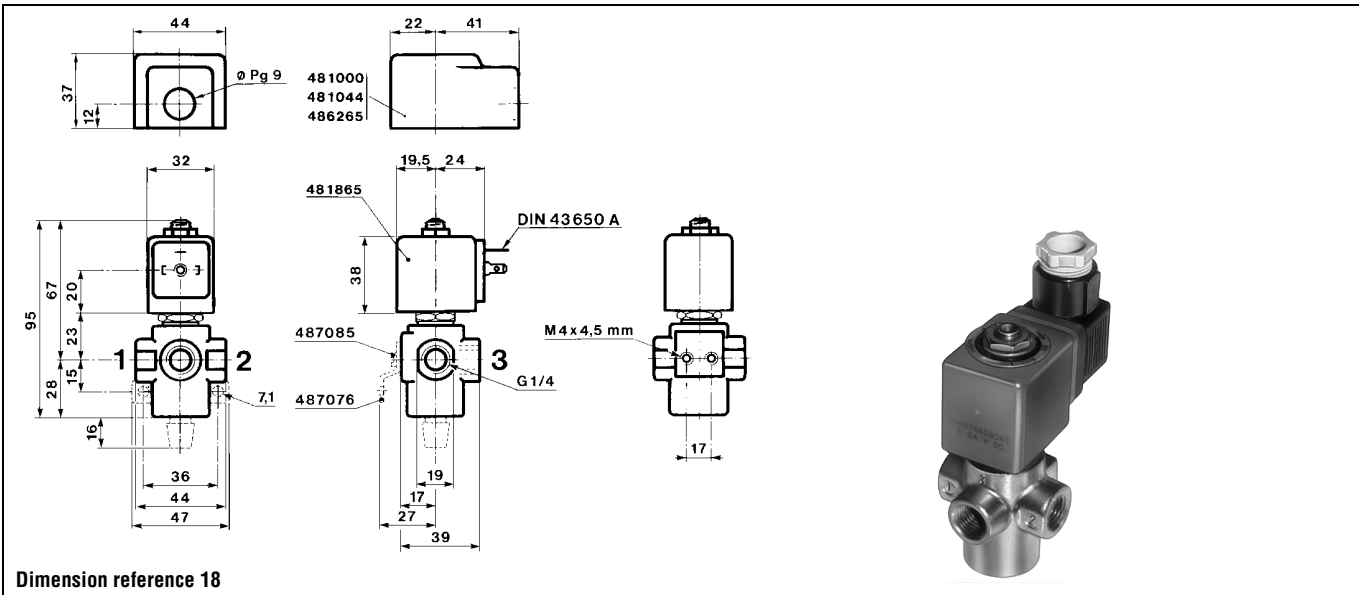
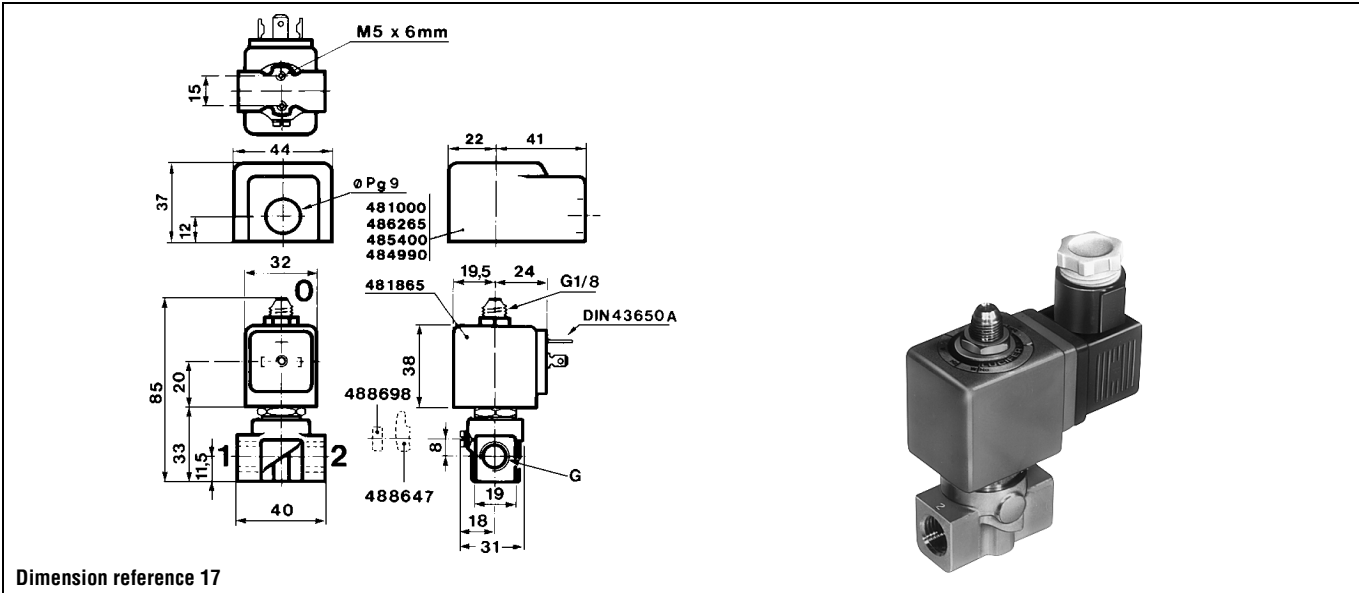
* See Electrical Parts Group table at end of section

1. Operates with low temperatures down to -40 deg. C

2. Manual override standard

Values shown within brackets are valid for exhaust port only.

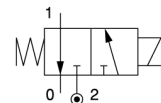
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Normally closed



1/4	2.5	2.7	7.1	220	0.1	7	7	75	75	75	NBR	7131EBG2LN00	E131E03	2995	481865	9	8	650	2	19
	(6)	(15)	(12.5)	1100	0.1	7	7	75	75	75	NBR			2995	481865	9	8	650	2	
	2.5	2.7	7.1	220	0.1	7	7	75	75	75	NBR			4270	481000	8	8	770	2	
	(6)	(15)	(12.5)	1100	0.1	7	7	75	75	75	NBR			4270	481000	8	8	770	2	
	2.5	3.5	9.5	220	0	7	7	100	100	100	Ruby	7131KBG2LRM0	E131K6350	¹ 2995	481865	9	8	310	2	17
	2.5	3.5	9.5	220	0	7	7	130	130	130	Ruby			4270	481000	8	8	430	2	
	2.5	3.5	9.5	220	0	7	7	100	100	100	Ruby	7131KBG2LR00	E131K63	2995	481865	9	8	310	2	17
	2.5	3.5	9.5	220	0	7	7	130	130	130	Ruby			4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LP1D	E131K03081D	² -	483250	8	8	1255	5	3845
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LP00	E131K0308	² 2995	481865	9	8	180	2	17
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR			4270	481000	8	8	180	2	
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR	7131KBG2LPM0	E131K0358	¹ 2995	481865	² 9	8	180	2	17
	2.5	3.5	8.5	220	0	7	7	75	75	75	PUR			4270	481000	² 8	8	180	2	

Table continued on page 132

Notes:

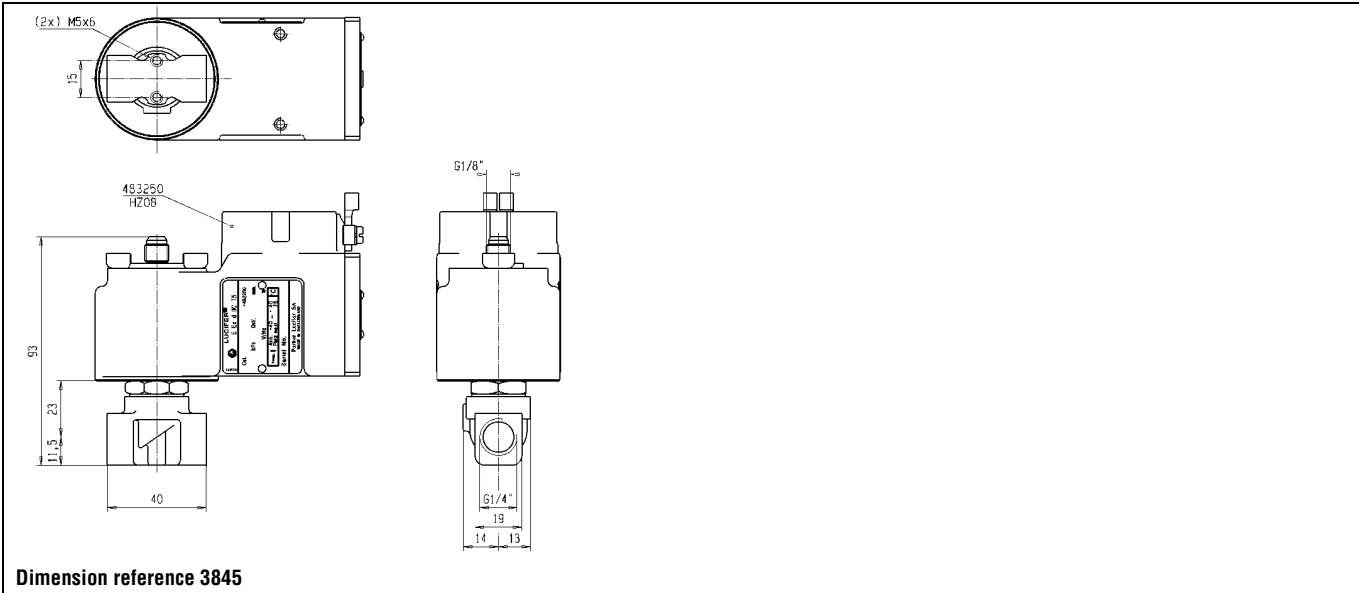
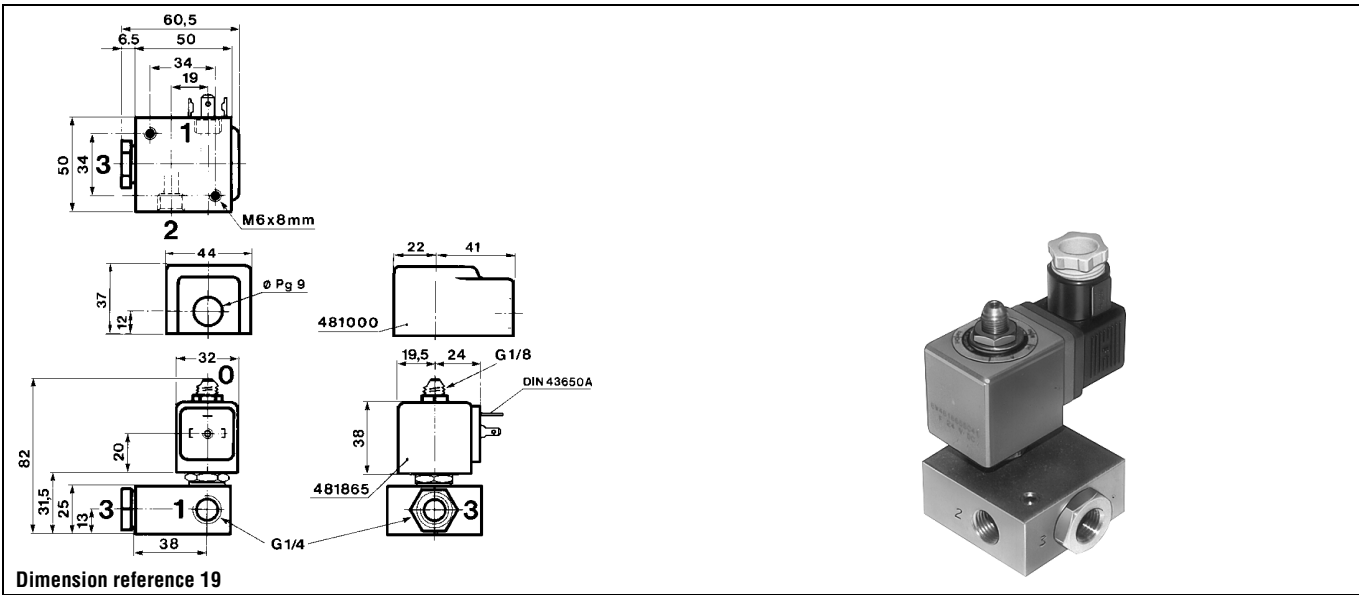
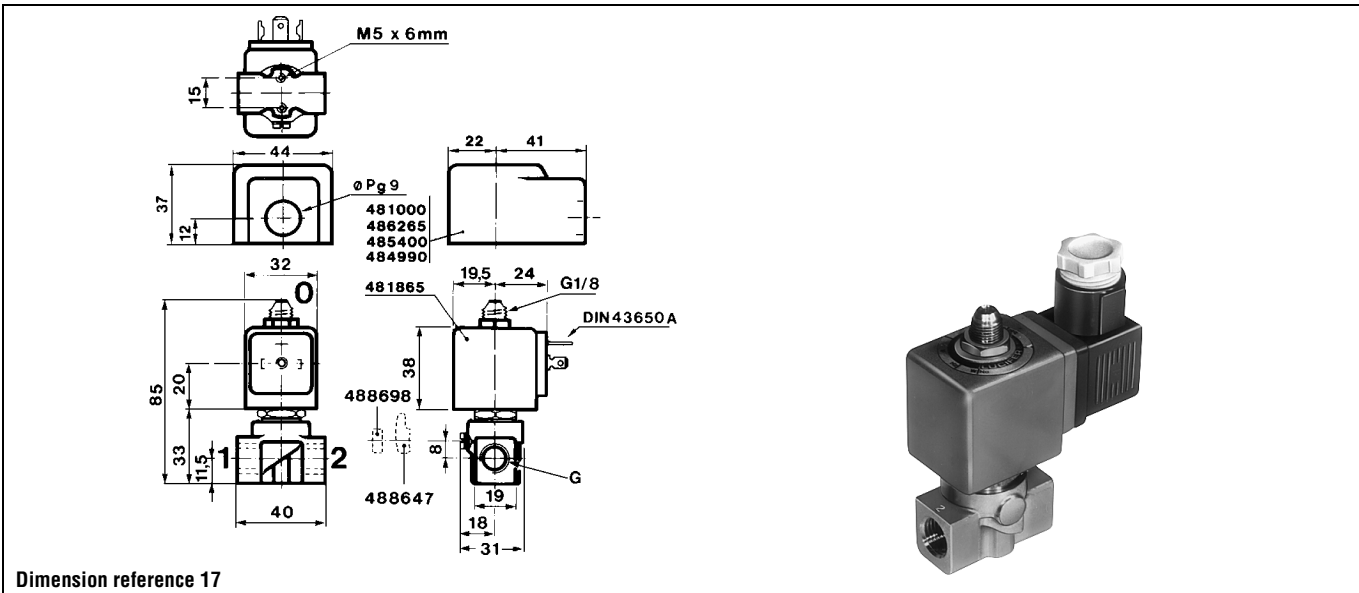
* See Electrical Parts Group table at end of section

1. Manual override standard

2. Operates with low temperatures down to -40 deg. C

Values shown within brackets are valid for exhaust port only.

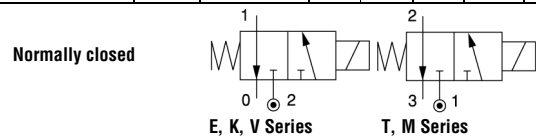
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

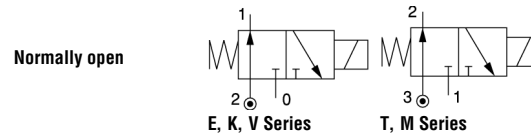
Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Gases Qmax	Gases Qn	Min	Max DC	Max AC	Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Pipe mounting



1/4	3	4.5	9	355	0	-	10	75	75	75	FKM	7131TBG2NVA0	131T22	4270	481044	-	14	520		18
	(4)	(6)	(10.5)	(450)	0	-	10	75	75	75	FKM			4270	481044	-	14	520		
	3	6	10.5	450	0	-	10	75	75	75	FKM			2995	492425	-	14	400		
	(4)	(4.5)	(9)	(355)	0	-	10	75	75	75	FKM			2995	492425	-	14	400		
	4.5	7	10.5	500	0	2	2	75	75	75	FKM	7131TBG2RVM0	131T2101	1	2995	481865	9	8	400	2
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			2995	481865	9	8	400	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM	7131TBG2RV00	131T21	2995	481865	9	8	400	2	18
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			2995	481865	9	8	400	2	
	4.5	7	10.5	500	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	
	(6)	(9)	(12.5)	(710)	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2	

Brass body/Pipe mounting



1/4	1.5	1.4	6	80	0	16	16	100	100	100	FKM	7132KBG2GV00	132K04	2995	481865	9	8	310	2	17
	1.5	1.4	6	80	0	16	16	120	120	120	FKM			4270	481000	8	8	430	2	
	2	1.8	6	125	0	10	10	100	100	100	FKM	7132KBG2JV00	132K06	2995	481865	9	8	310	2	17
	2	1.8	6	125	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2	
	2	2.5	8	140	0	5	10	75	75	75	FKM	7132TBG2JVM0	132T2301	2995	481865	9	8	300		18
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			2995	481865	9	8	300		
	2	2.5	8	140	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	2	2.5	8	140	0	10	-	75	75	75	FKM			4270	486265	14	14	430		
	(3)	(4.5)	(9)	(355)	0	10	-	75	75	75	FKM			4270	486265	14	14	430		
	2	2.5	8	140	0	5	10	75	75	75	FKM	7132TBG2JV00	132T23	2995	481865	9	8	300		18
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			2995	481865	9	8	300		
	2	2.5	8	140	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	(3)	(4.5)	(9)	(355)	0	5	10	75	75	75	FKM			4270	481000	8	8	420		
	2	2.5	8	140	0	10	-	75	75	75	FKM			4270	486265	14	-	430		
	(3)	(4.5)	(9)	(355)	0	10	-	75	75	75	FKM			4270	486265	14	-	430		
	2.5	2.2	8.5	160	0	7	7	100	100	100	FKM	7132KBG2LV00	132K03	2995	481865	9	8	310	2	17
	2.5	2.2	8.5	160	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2	
	2.5	3.5	8.5	220	0	3.5	7	75	75	75	FKM	7132TBG2LV00	132T29	2995	481865	9	8	300		18
	(3.5)	(5.5)	(9.5)	(400)	0	3.5	7	75	75	75	FKM			2995	481865	9	8	300		
	2.5	3.5	8.5	220	0	3.5	7	75	75	75	FKM			4270	481000	8	8	420		
	(3.5)	(5.5)	(9.5)	(400)	0	3.5	7	75	75	75	FKM			4270	481000	8	8	420		
	2.5	3.5	8.5	220	0	7	-	75	75	75	FKM			4270	486265	14	14	430		
	(3.5)	(5.5)	(9.5)	(400)	0	7	-	75	75	75	FKM			4270	486265	14	14	430		

Table continued on page 134

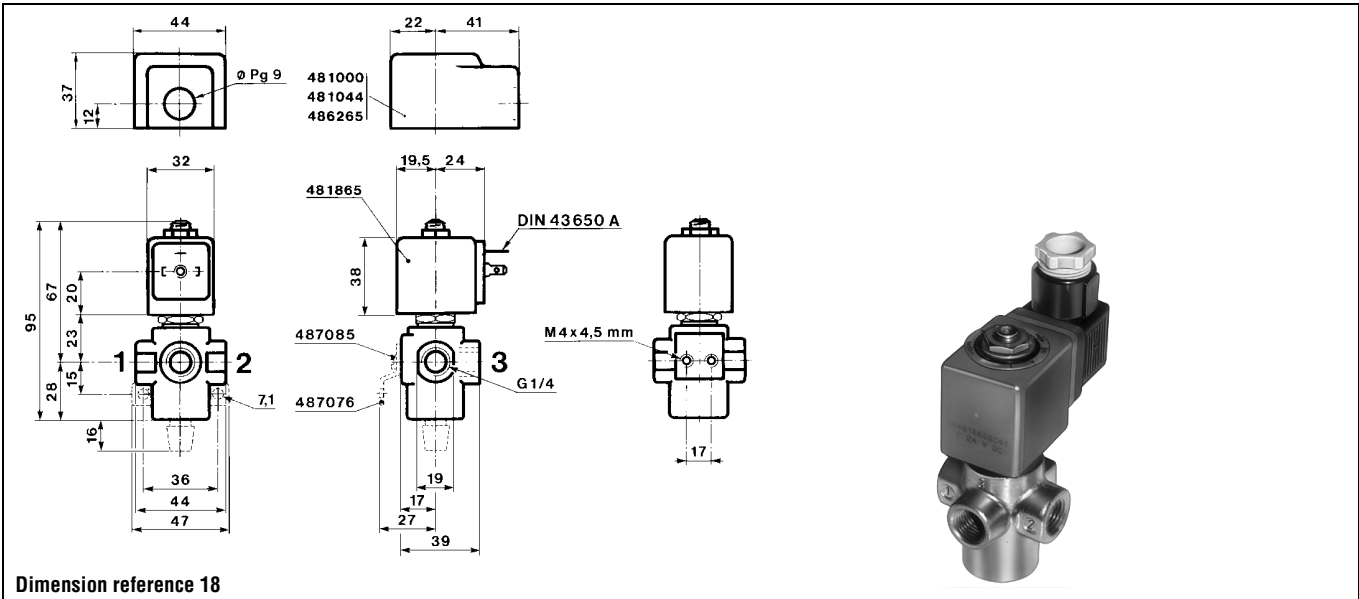
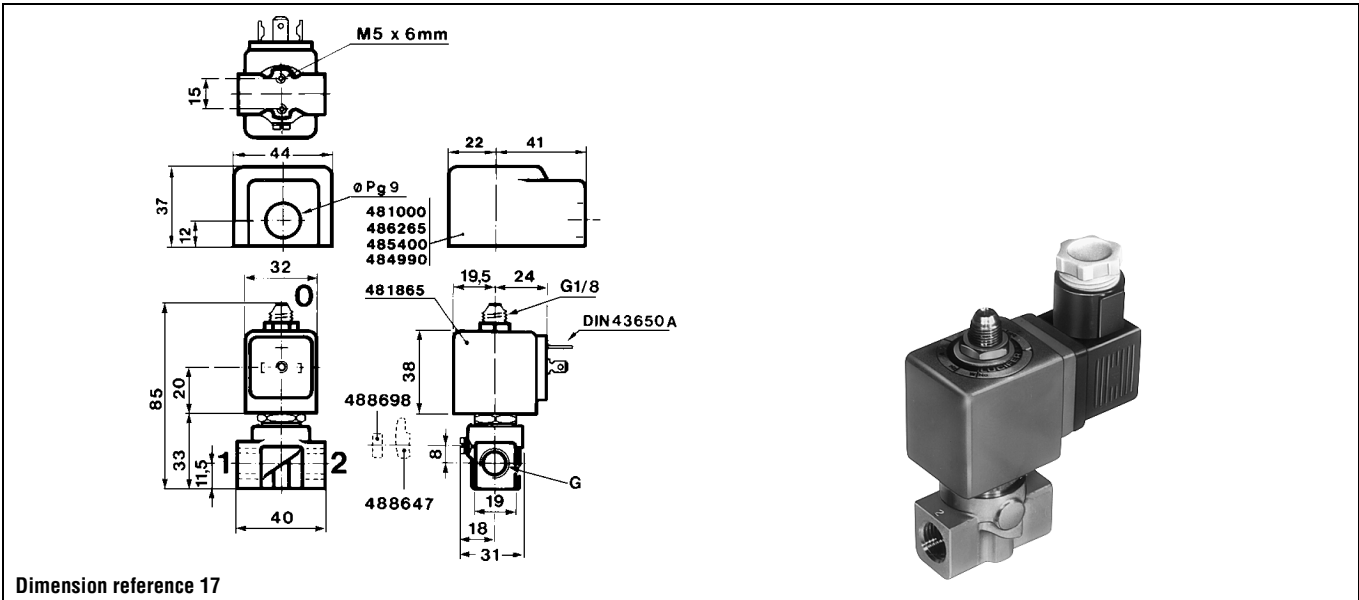
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated

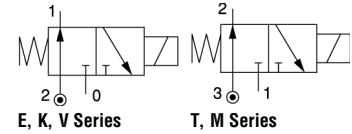


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Gases Qmax	Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Pipe mounting

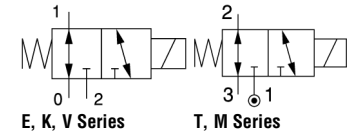
Normally open



1/4	3	6	10.5	450	0	-	10	75	75	75	FKM	7132TBG2NVA0	132T22	4270	481044	-	14	420		18
	(4)	(4.5)	(9)	(355)	0	-	10	75	75	75	FKM			4270	481044	-	14	420		
	3	4.5	9	355	0	-	7	75	75	75	FKM			2995	492425	-	14	325		
	(4)	(6)	(10.5)	(450)	0	-	7	75	75	75	FKM			2995	492425	-	14	325		

Brass body/Pipe mounting

Universal



1/8	1.5	1.5	4.7	80	0	10	10	100	100	100	FKM	7133KBG1GV00	E133K14	2995	481865	9	8	325	2	17	
	1.5	1.5	4.7	80	0	10	10	120	120	120	FKM			4270	481000	8	8	445	2		
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG1JV00	E133K16	2995	481865	9	8	325	2	17	
	2	2.5	6.6	145	0	7	7	120	120	120	FKM			4270	481000	8	8	445	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG1LV00	E133K13	2995	481865	9	8	325	2	17	
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	445	2		
1/4	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133KBG2GVM0	E133K0450	1	2995	481865	9	8	310	2	17
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133KBG2GV00	E133K04		2995	481865	9	8	310	2	17
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM			4270	481000	8	8	430	2		
	1.5	1.5	4.5	80	0	10	10	75	75	75	NBR	7133KBG2GV1D	E133K04001D	-	483250	8	8	1255	5	3845	
	2	2.5	7	140	0	7	7	75	75	75	FKM	7133TBG2JVM0	133T2301	1	2995	481865	9	8	400		18
	2	2.5	7	140	0	7	7	75	75	75	FKM			4270	481000	8	8	520			
	2	2.5	7	140	0	7	7	75	75	75	FKM	7133TBG2JV00	133T23		2995	481865	9	8	400		18
	2	2.5	7	140	0	7	7	75	75	75	FKM			4270	481000	8	8	520			
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG2JVM0	E133K0650	1	2995	481865	9	8	310	2	17
	2	2.5	6.6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2		
	2	2.5	6.6	145	0	7	7	100	100	100	FKM	7133KBG2JV00	E133K06		2995	481865	9	8	310	2	17
	2	2.5	6.6	140	0	7	7	120	120	120	FKM			4270	481000	8	8	430	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG2LVM0	E133K0350	1	2995	481865	9	8	310	2	17
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	430	2		
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133KBG2LV00	E133K03		2995	481865	9	8	310	2	17
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	430	2		
	3	4.5	6	355	0	2	2	75	75	75	FKM	7133TBG2NVM0	133T2101	1	2995	481865	9	8	300	2	18
	3	4.5	6	355	0	2	2	75	75	75	FKM			4270	481000	8	8	420	2		
	3	4.5	6	355	0	2	2	75	75	75	FKM	7133TBG2NV00	133T21		2995	481865	9	8	400	2	18
	3	4.5	6	355	0	2	2	75	75	75	FKM			4270	481000	8	8	520	2		

Table continued on page 136

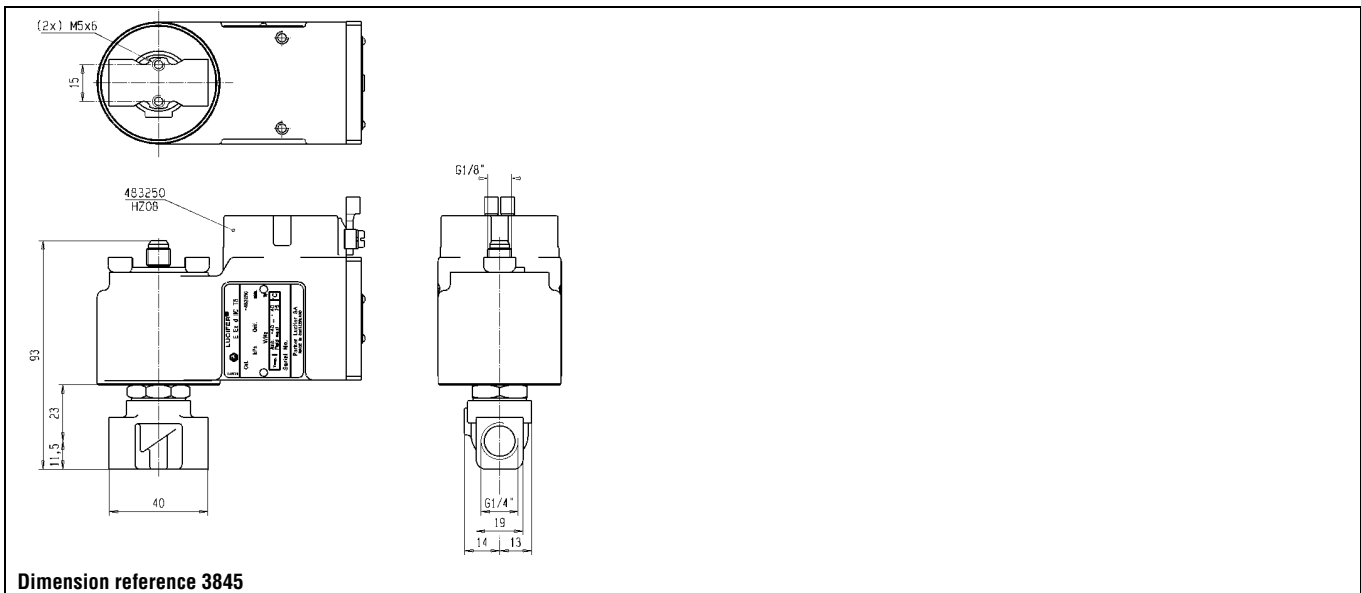
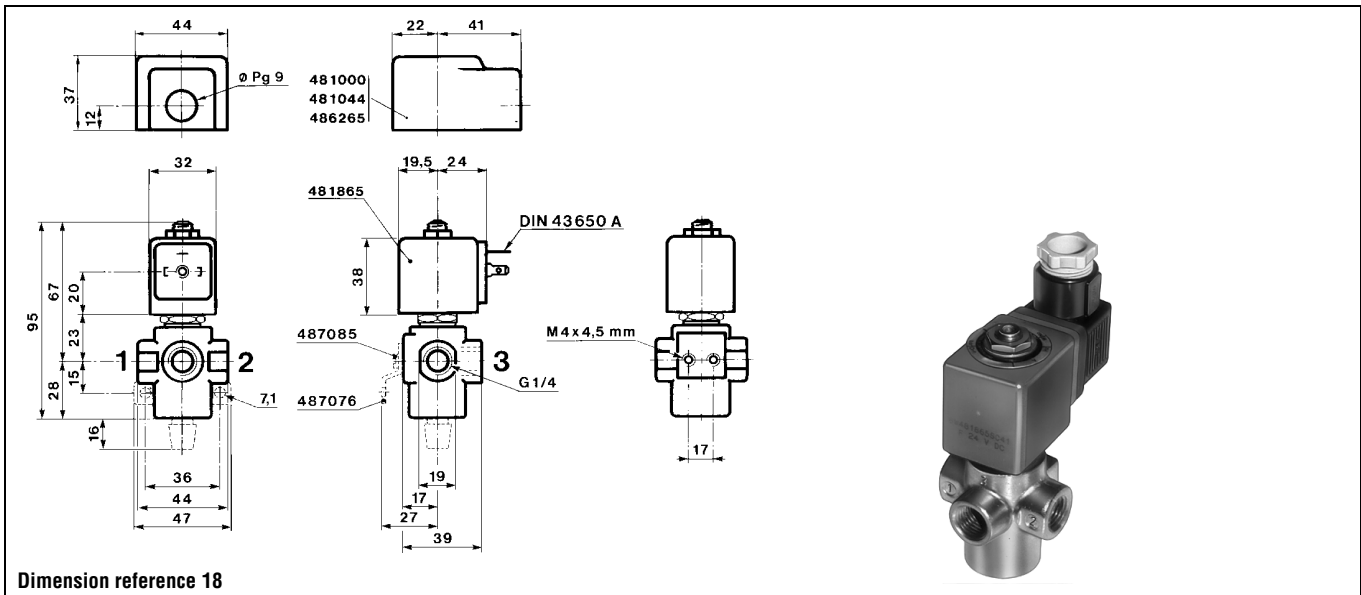
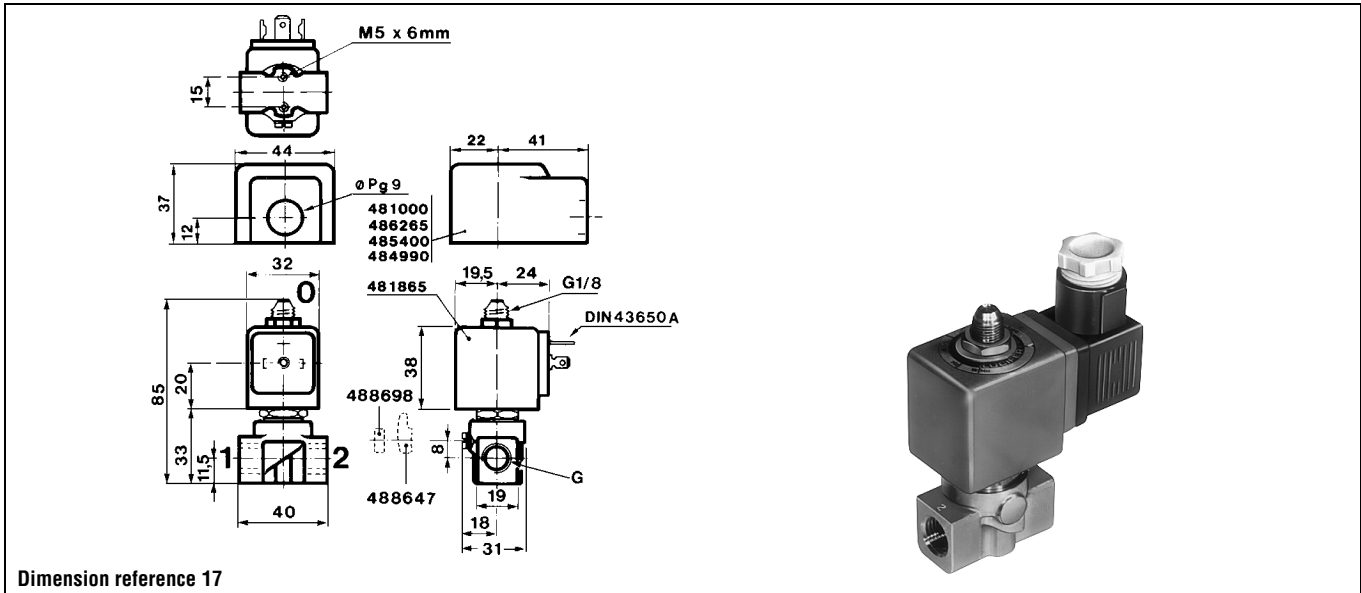
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

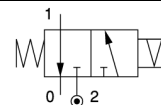
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

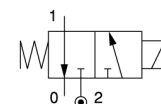
Magnetic latch control



Brass body/Pipe mounting

1/4	1.5	1.5	6	80	0	-	16	100	100	100	FKM	7135KBG2GV00	135K04	4269	484990	-	11	450	4	17
	1.5	1.5	6	80	0	16	-	100	100	100	FKM			4269	485400	13	-	450	4	
	2.5	3.5	8.5	220	0	-	7	100	100	100	FKM	7135KBG2LV00	135K03	4269	484990	-	11	450	4	17
	2.5	3.5	8.5	220	0	7	-	100	100	100	FKM			4269	485400	13	-	450	4	

Normally closed



Brass body/Sub-base mounting

SB	1	0.6	-	-	0	10	-	75	75	-	FKM	-	131F4490	¹	-	483580.01	²	0.4	-	235	7	79
----	---	-----	---	---	---	----	---	----	----	---	-----	---	----------	--------------	---	-----------	--------------	-----	---	-----	---	----

Table continued on page 138

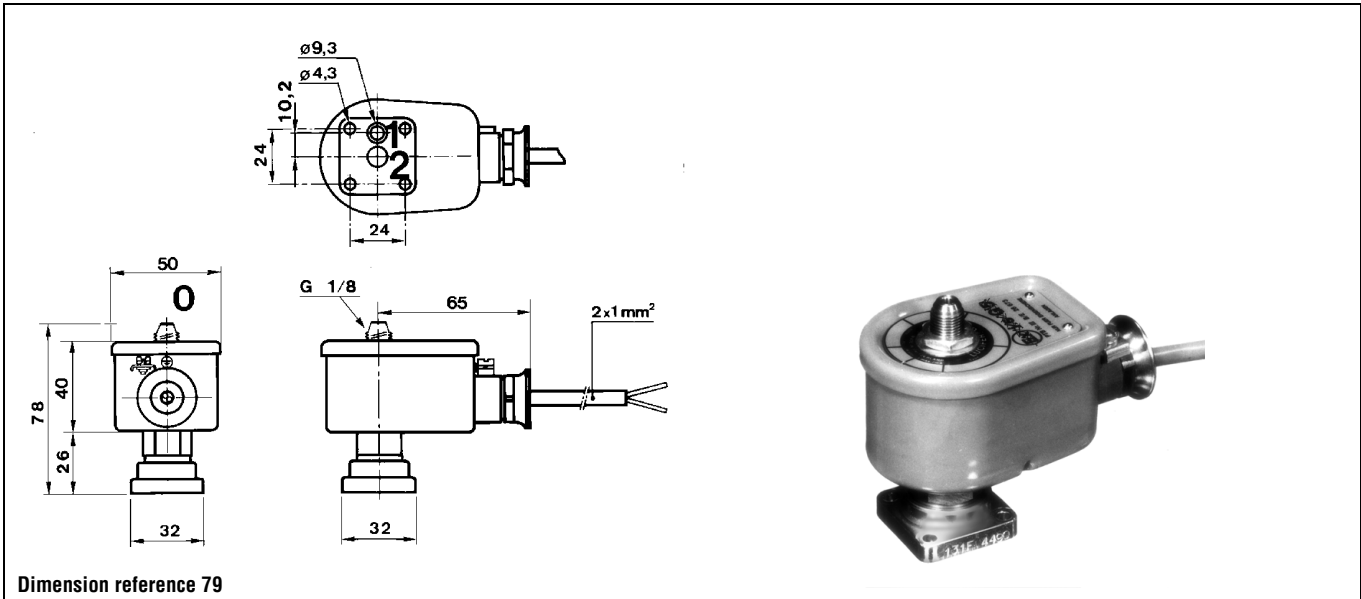
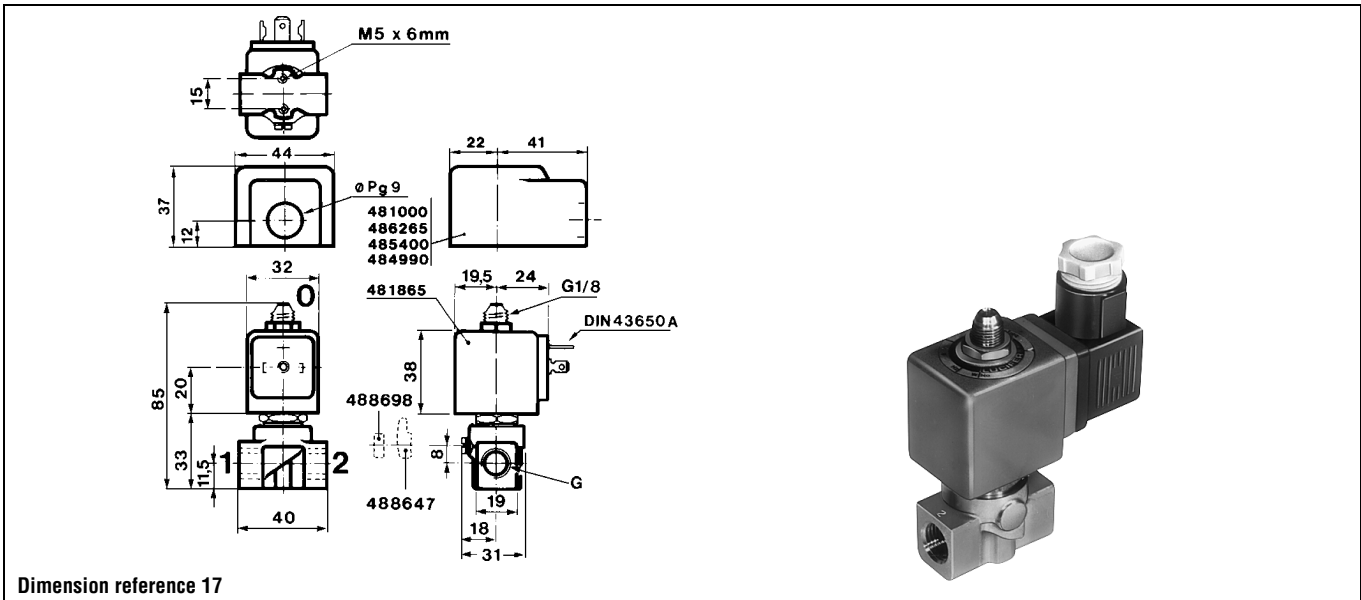
Notes:

* See Electrical Parts Group table at end of section

1. Other coil-housing available: 488650.01, 488660.01, 488670.01 (refer to electrical parts at end of this section)

2. This reference no. is for the complete electrical part (coil + housing)

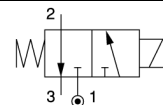
General application valves 3/2 - Direct operated



General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max	Gas	Liquid	Oil	Global valve reference		Valve reference no.		Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Normally closed



Brass body/Sub-base mounting

SB	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M75	8993	488980	2.5	2	125	1	26
	(1.5)	(0.9)	(2.2)	(70)	0	10	10	75	75	75	FKM	-		8993	488980	2.5	2	125	1	
	1.2	0.7	2.2	50	0	10	10	75	75	75	FKM	-	131M7550	1 8993	488980	2.5	2	125	1	26
	(1.5)	(1)	(2.2)	(70)	0	10	10	75	75	75	FKM	-		8993	488980	2.5	2	125	1	

Table continued on page 140

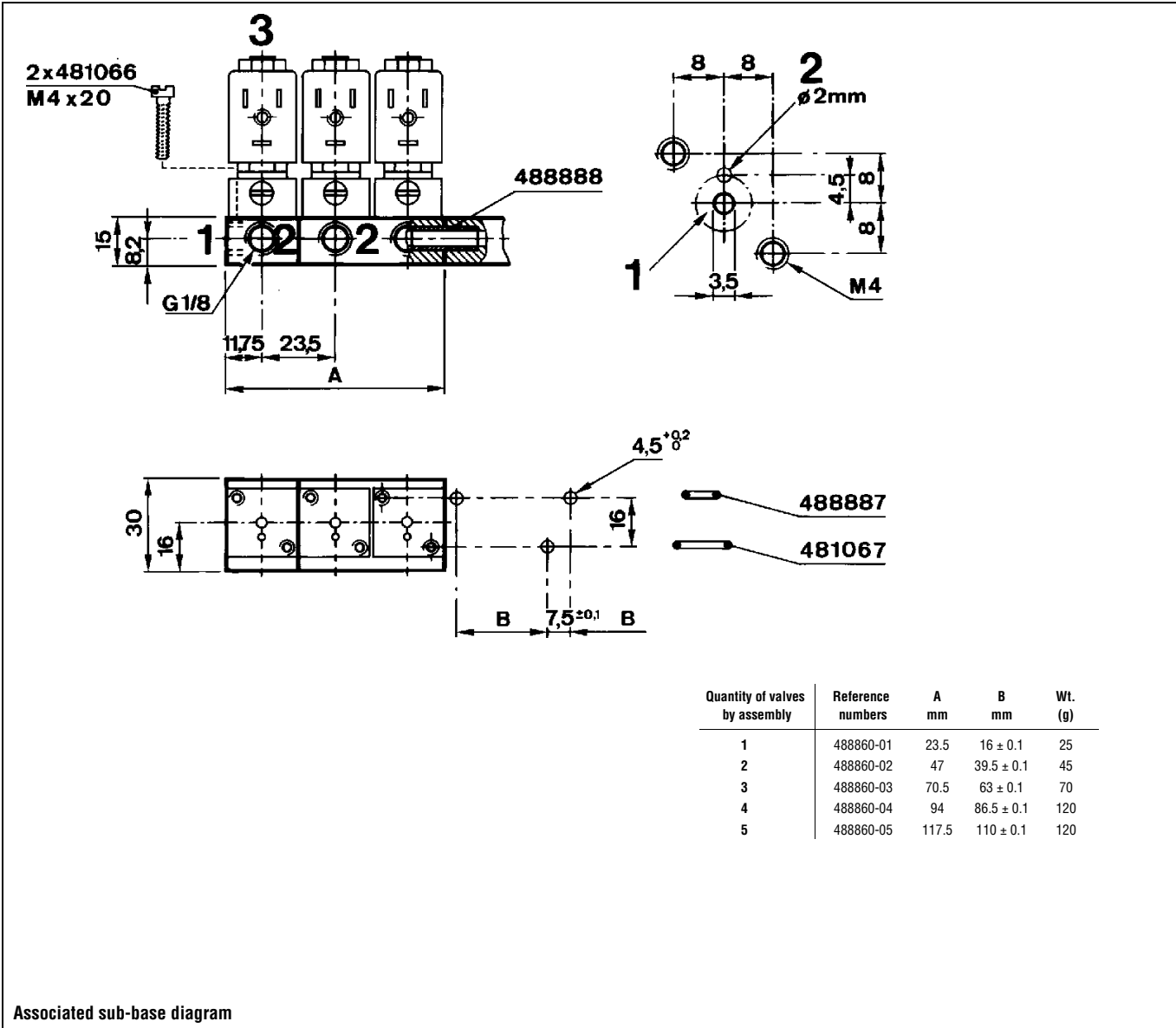
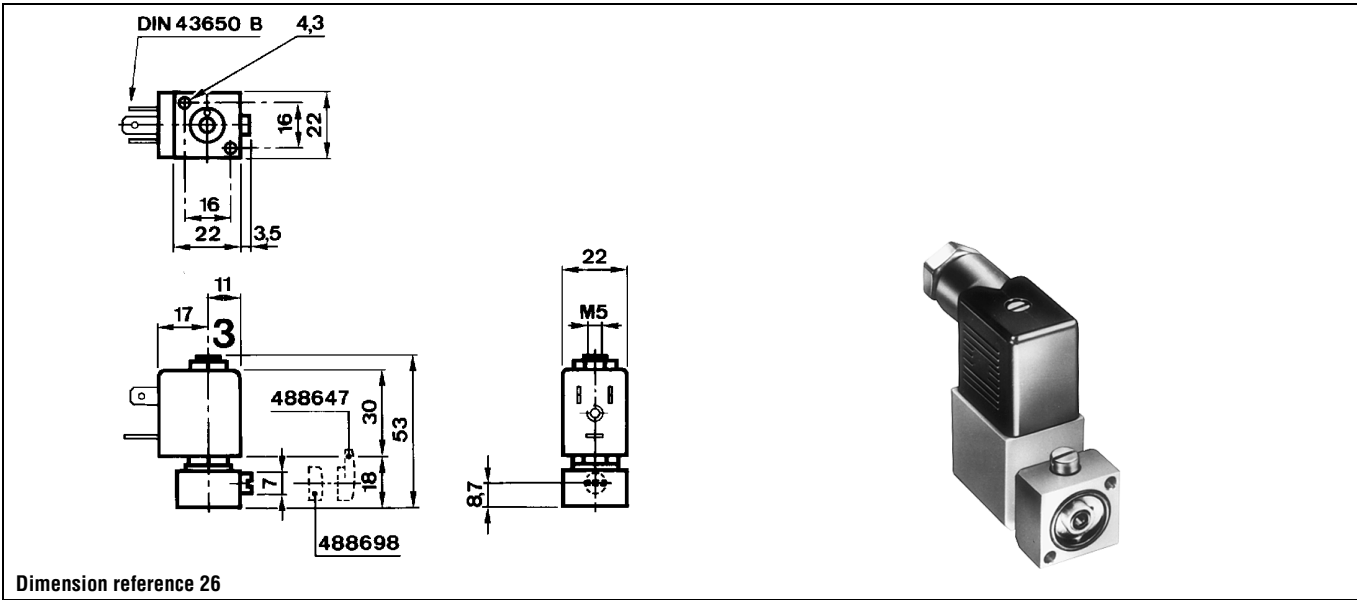
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated

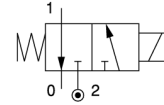


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
												OR								
		Liquids		Gases	Min	Max	Gas	Liquid	Oil	Global valve reference		Valve reference no.	Housing	Coil	DC	AC				
G		kv	Qmax	Qn		DC	AC													

Brass body/Sub-base mounting

Normally closed



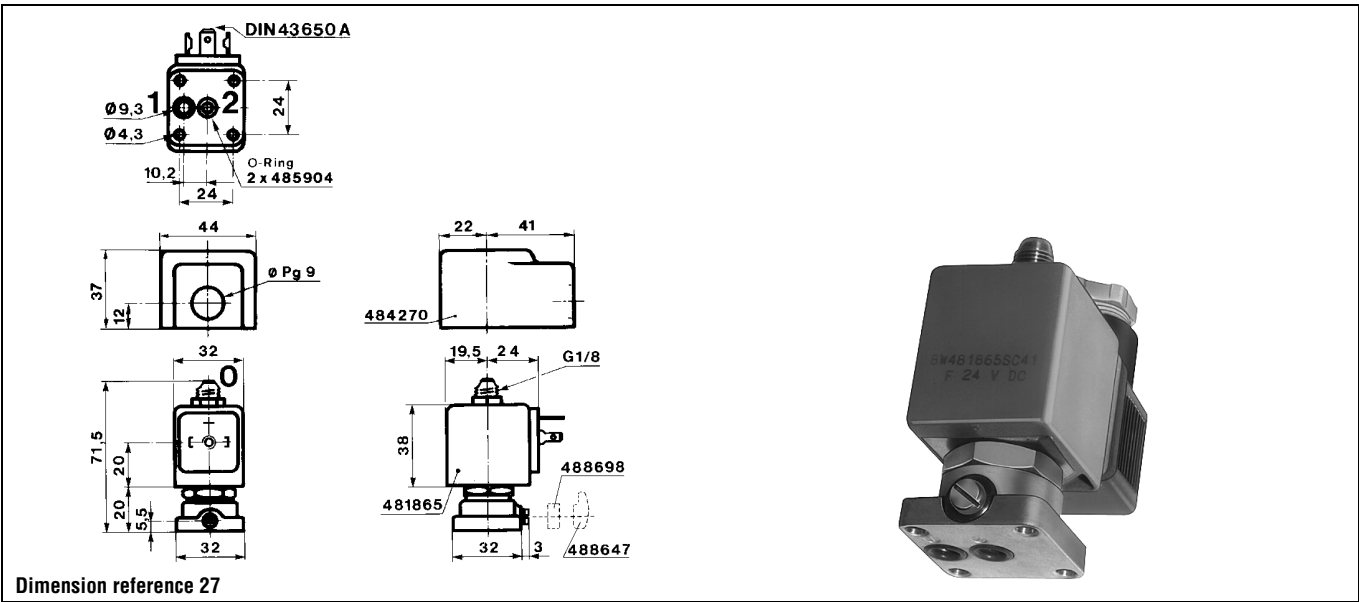
SB	1.5	1.5	4	80	0	7	-	75	75	75	FKM	7131FBF4GLV5	131F4480	2995	482740	1.6	-	255	6	27
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Table continued on page 142

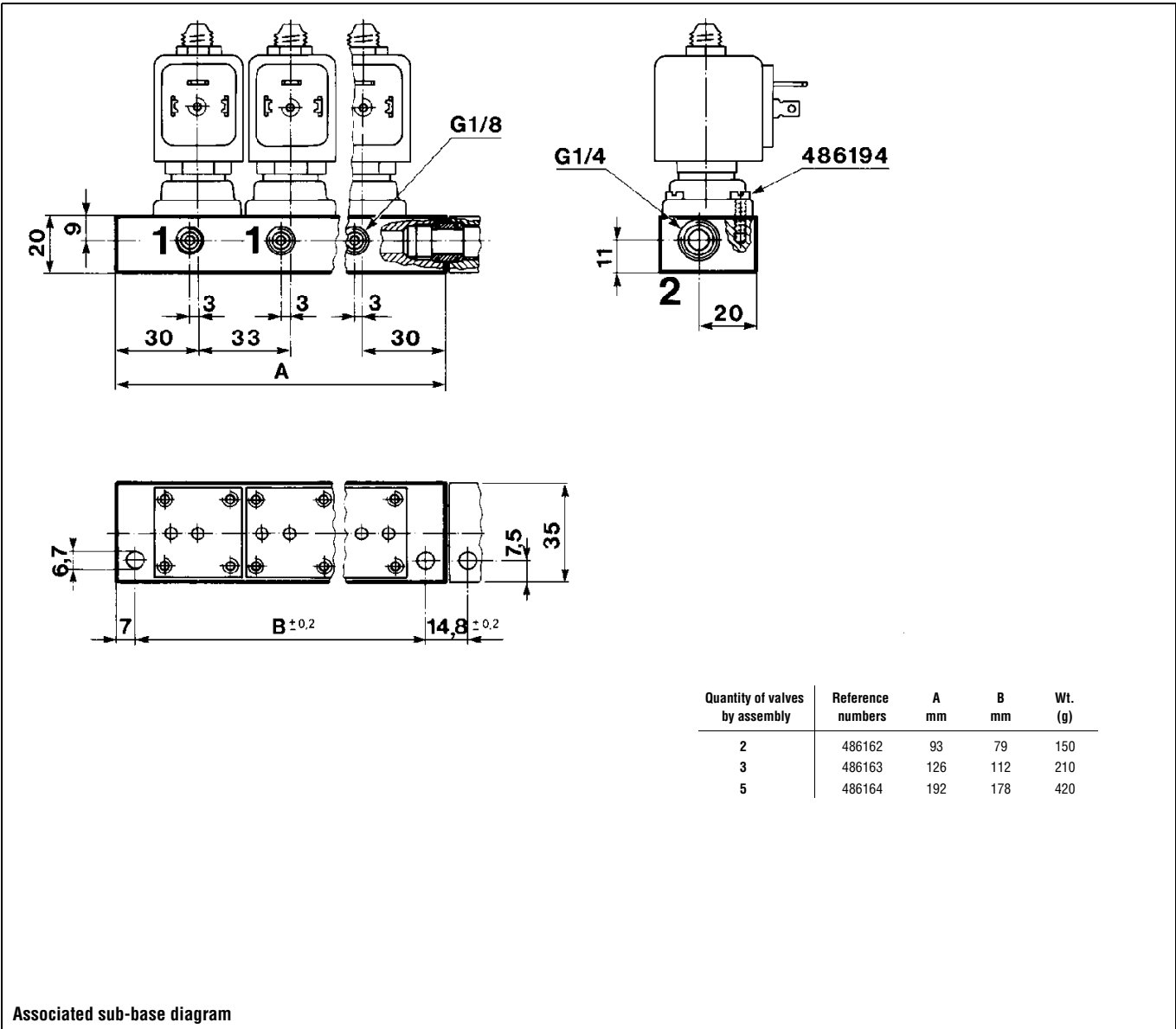
Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Direct operated



Dimension reference 27



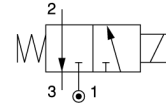
Associated sub-base diagram

General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		kv	Qmax	Qn		DC	AC													

Brass body/Sub-base mounting

Normally closed



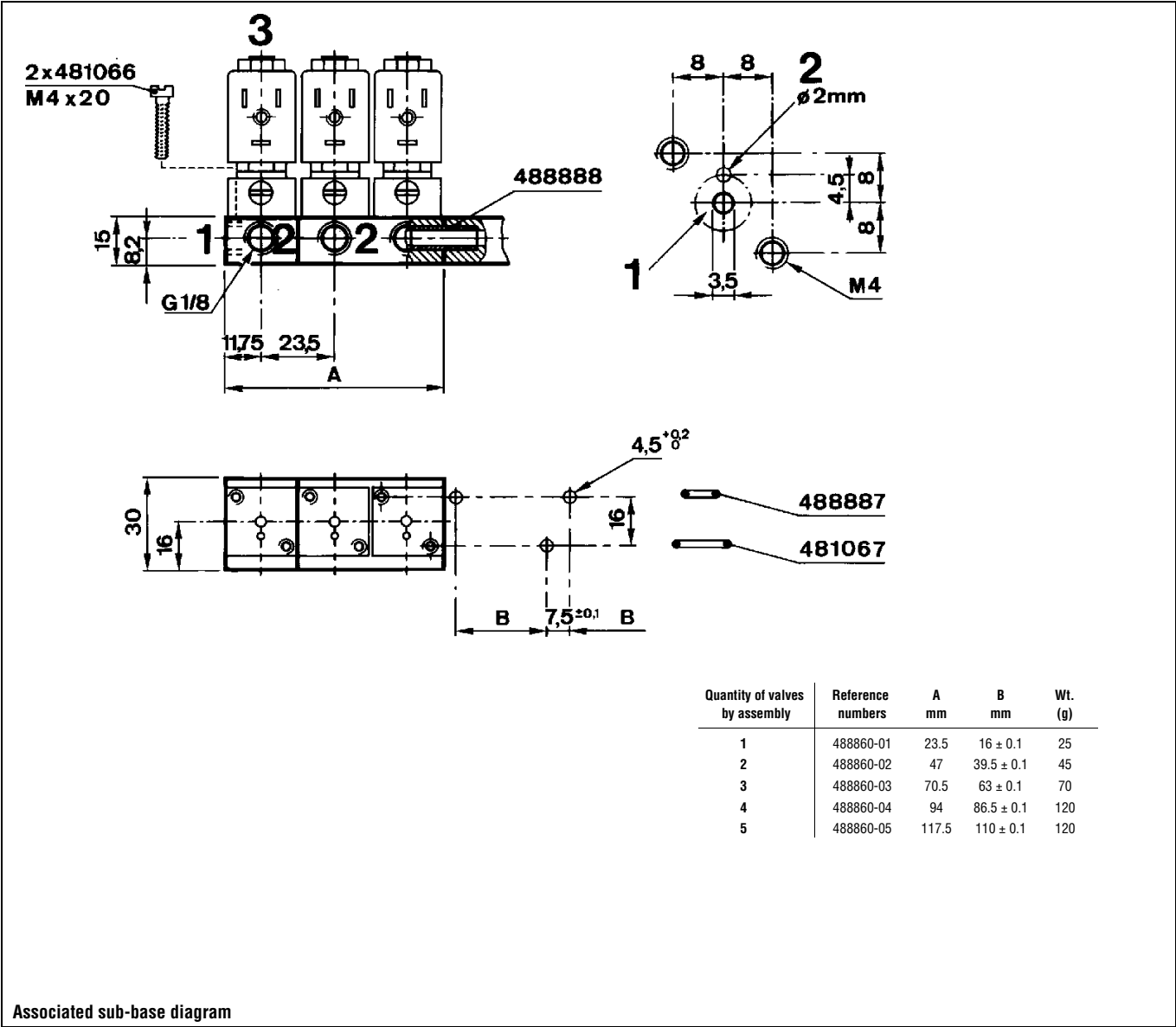
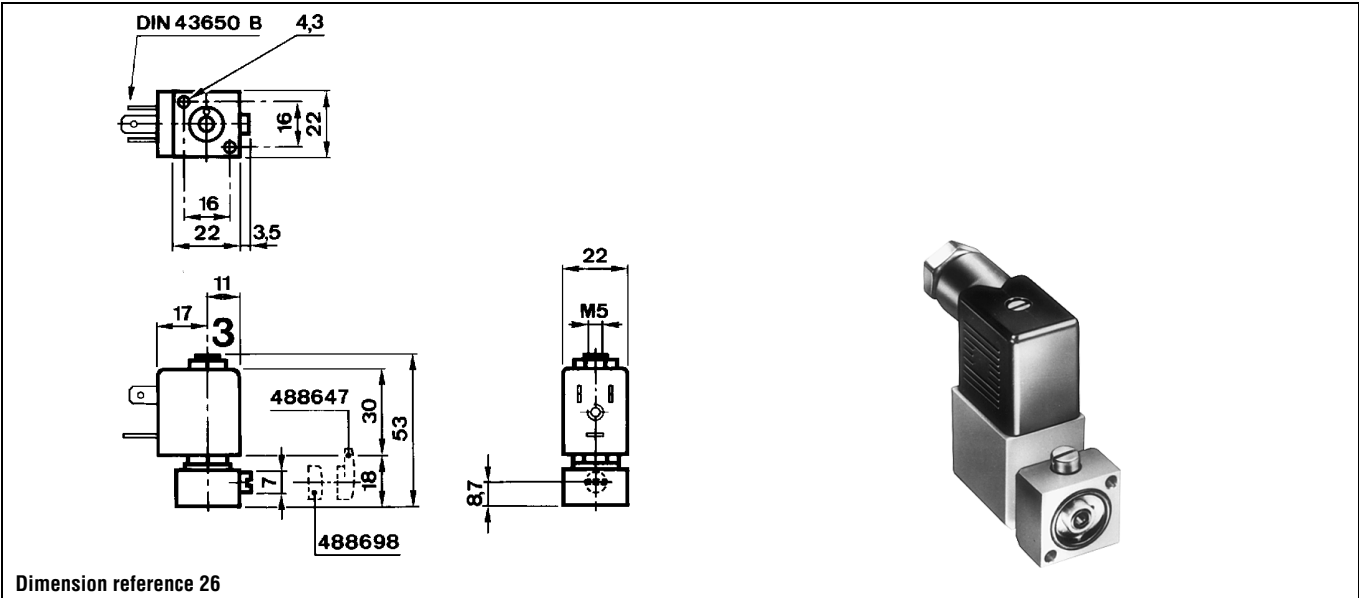
SB	1.5	0.9	2.4	70	0	7	7	75	75	75	FKM	-	131M74	8993	488980	2.5	2	125	1	26
	1.5	0.9	2.4	70	0	7	7	75	75	75	FKM	-	131M7450 ¹	8993	488980	2.5	2	125	1	26

Table continued on page 144

Notes:

- * See Electrical Parts Group table at end of section
- 1. Manual override standard

General application valves 3/2 - Direct operated

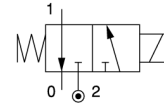


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																				

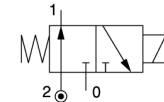
Brass body/Sub-base mounting

Normally closed



SB	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131FBF4GVM0	E131F4450	1	2995	481865	9	8	255	2	27
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM				4270	481000	8	8	375	2	
	1.5	1.5	5.8	80	0	15	15	100	100	100	FKM	7131FBF4GV00	E131F44		2995	481865	9	8	255	2	27
	1.5	1.5	5.8	80	0	15	15	120	120	120	FKM				4270	481000	8	8	375	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131FBF4JVM0	131F4650	1	2995	481865	9	8	255	2	27
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM				2995	481865	9	8	255	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	2	2.5	8	140	0	10	10	100	100	100	FKM	7131FBF4JV00	131F46		2995	481865	9	8	255	2	27
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	100	100	100	FKM				2995	481865	9	8	255	2	
	2	2.5	8	140	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	(2.5)	(3.5)	(8.5)	(220)	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131FBF4LVM0	E131F4350	1	2995	481865	9	8	255	2	27
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	375	2	
	2.5	3.5	8.5	220	0	7	7	100	100	100	FKM	7131FBF4LV00	E131F43		2995	481865	9	8	255	2	27
	2.5	3.5	8.5	220	0	7	7	120	120	120	FKM				4270	481000	8	8	375	2	

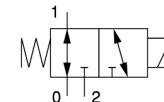
Normally open



Brass body/Sub-base mounting

SB	1.5	1.4	6	80	0	16	16	100	100	100	FKM	7132FBF4GV00	132F44		2995	481865	9	8	255	2	27
	1.5	1.4	6	80	0	16	16	120	120	120	FKM				4270	481000	8	8	375	2	
	2	1.8	6	125	0	10	10	100	100	100	FKM	7132FBF4JV00	132F46		2995	481865	9	8	255	2	27
	2	1.8	6	125	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	2.5	2.2	8.5	160	0	7	7	100	100	100	FKM	7132FBF4LV00	132F43		2995	481865	9	8	255	2	27
	2.5	2.2	8.5	160	0	7	7	120	120	120	FKM				4270	481000	8	8	375	2	

Universal



Brass body/Sub-base mounting

SB	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133FBF4GVM0	E133F4450	1	2995	481865	9	8	255	2	27
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	1.5	1.5	4.5	80	0	10	10	100	100	100	FKM	7133FBF4GV00	E133F44		2995	481865	9	8	255	2	27
	1.5	1.5	4.5	80	0	10	10	120	120	120	FKM				4270	481000	8	8	375	2	
	2	2.5	6	140	0	7	7	100	100	100	FKM	7133FBF4JVM0	133F4650	1	2995	481865	9	8	255	2	27
	2	2.5	6	140	0	7	7	120	120	120	FKM				4270	481000	8	8	375	2	
	2	2.5	6	140	0	7	7	100	100	100	FKM	7133FBF4JV00	133F46		2995	481865	9	8	255	2	27
	2	2.5	6	140	0	7	7	120	120	120	FKM				4270	481000	8	8	375	2	
	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133FBF4LVM0	E133F4350	1	2995	481865	9	8	255	2	27
	2.5	3.5	7	220	0	4	4	120	120	120	FKM				4270	481000	8	8	375	2	

Table continued on page 146

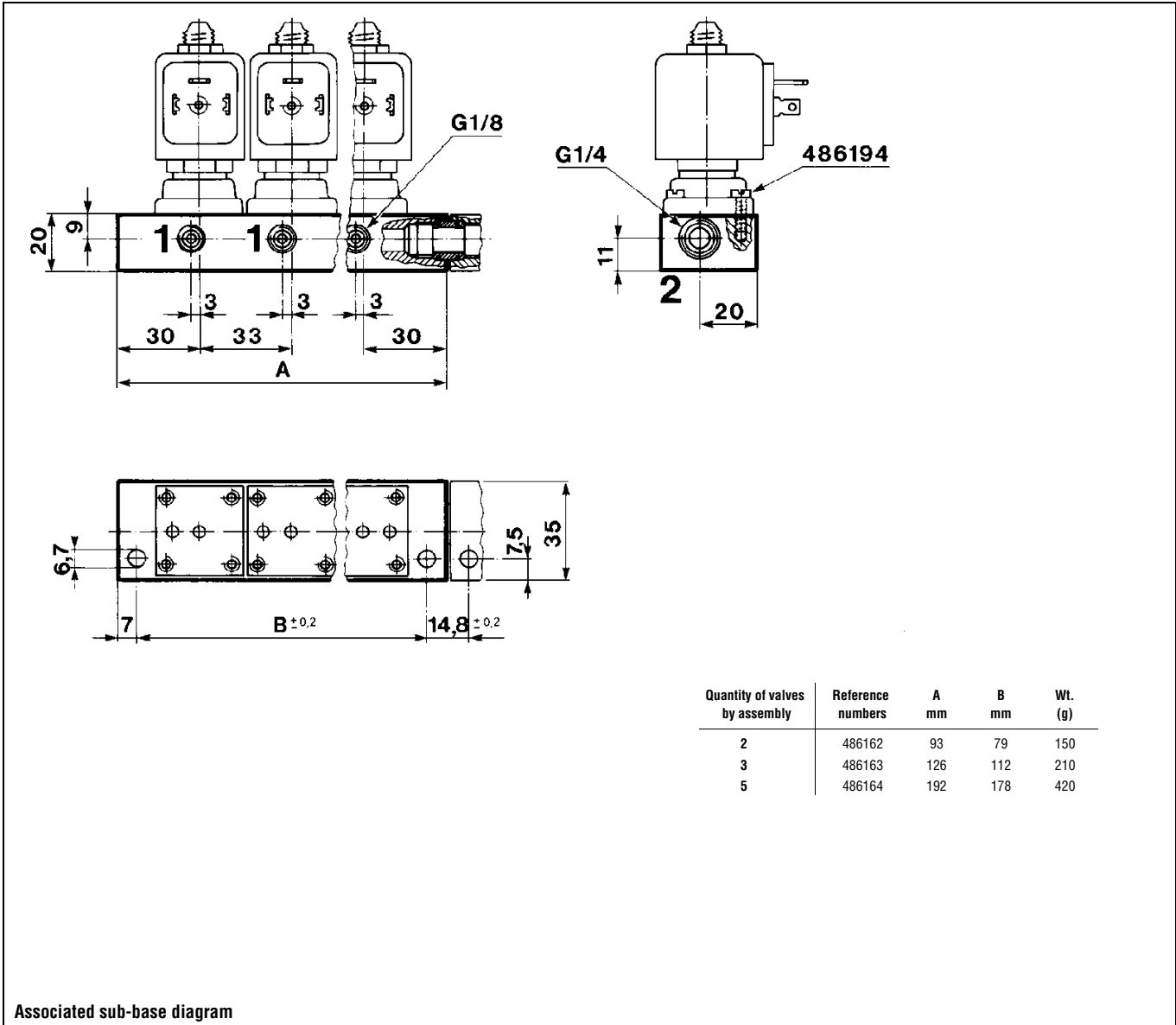
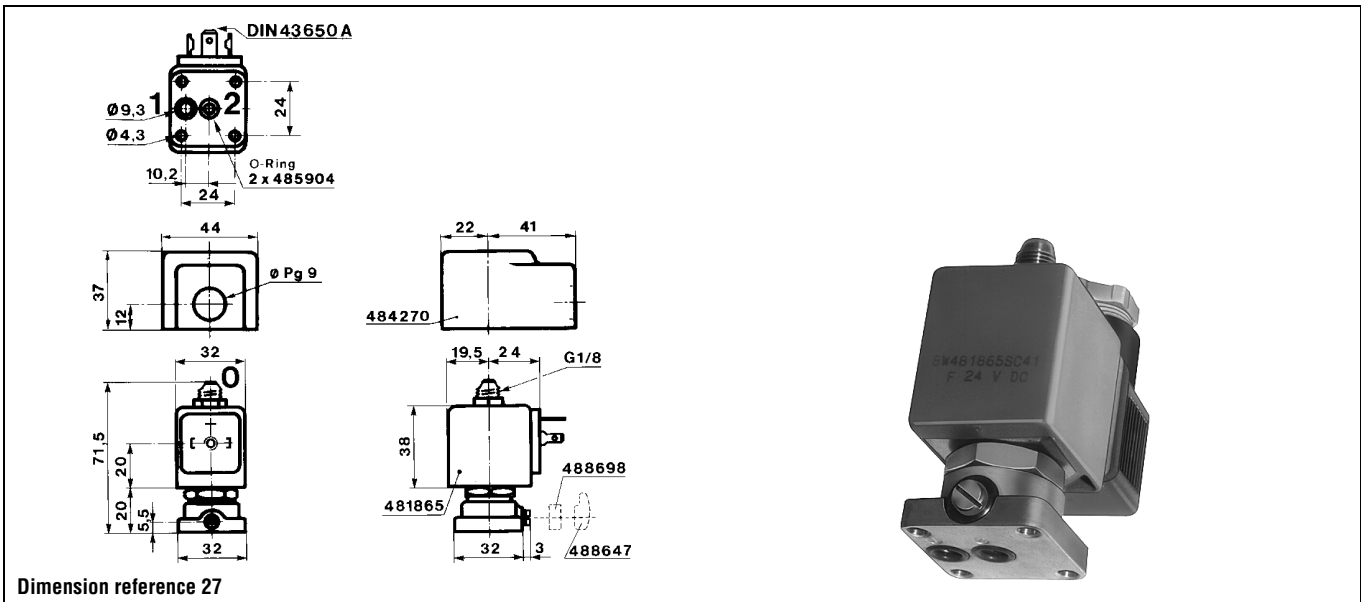
Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

Values shown within brackets are valid for exhaust port only.

General application valves 3/2 - Direct operated

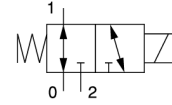


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max DC	Max AC	Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Brass body/Sub-base mounting

Universal



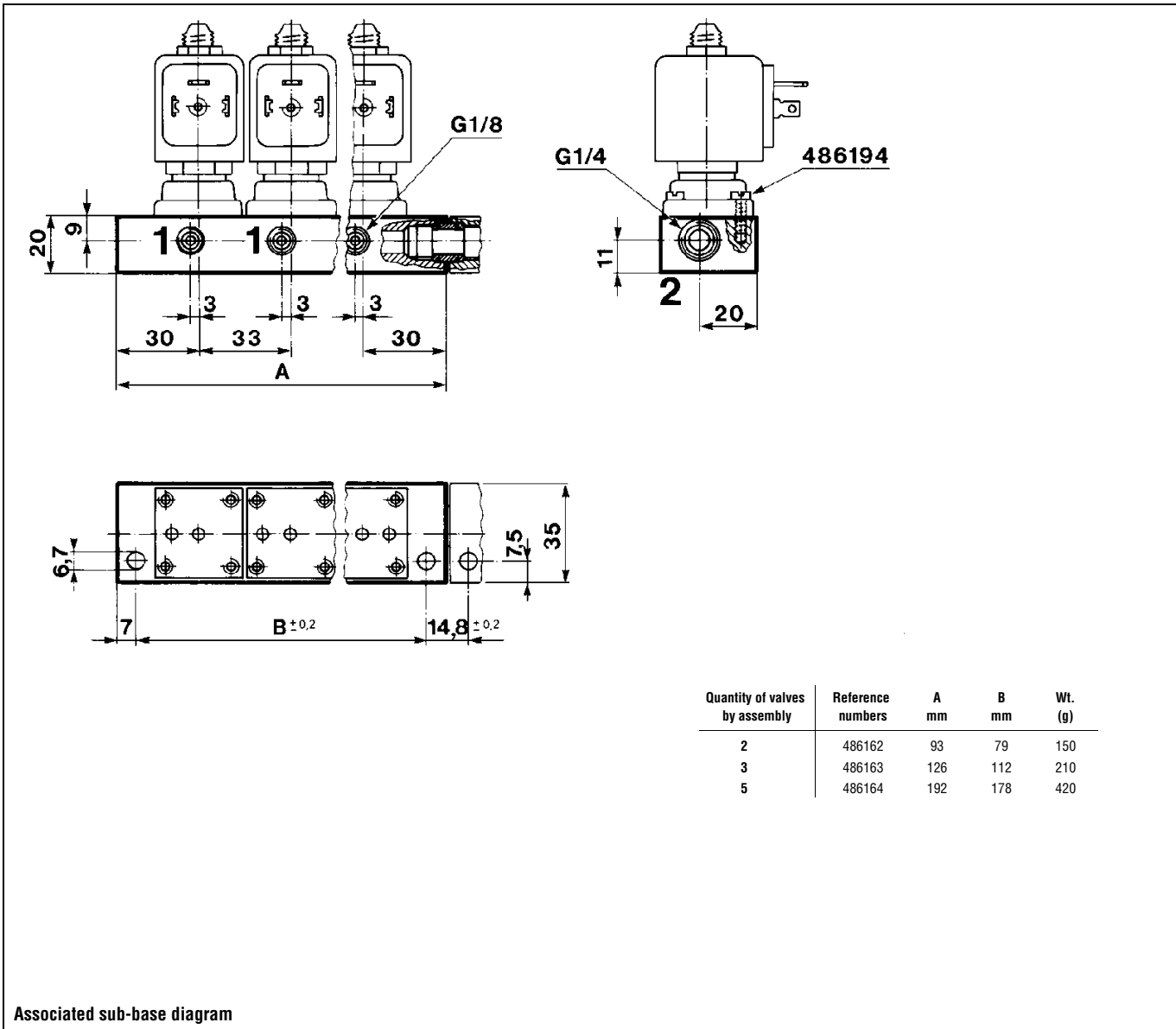
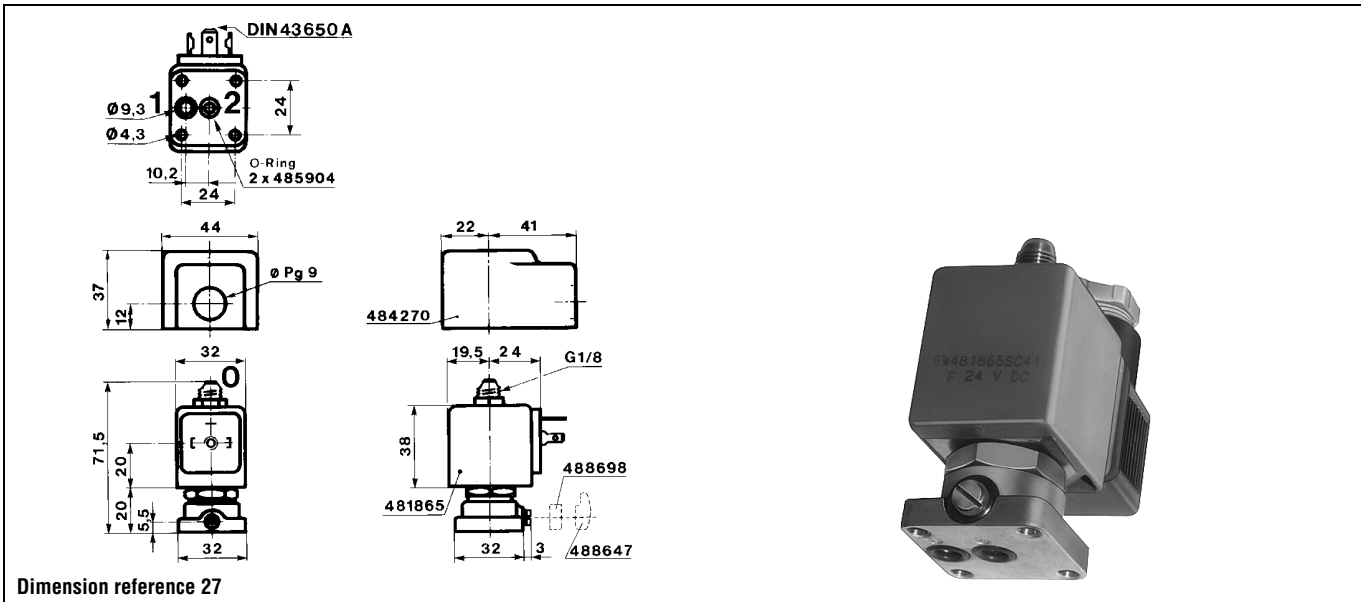
SB	2.5	3.5	7	220	0	4	4	100	100	100	FKM	7133FBF4LV00	E133F43	2995	481865	9	8	255	2	27
	2.5	3.5	7	220	0	4	4	120	120	120	FKM			4270	481000	8	8	375	2	

Table continued on page 148

Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Direct operated

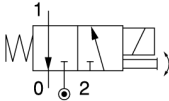


General application valves 3/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max	Gas	Liquid	Oil	Global valve reference		Valve reference no.	Housing	Coil	DC	AC				
		kv	Qmax														Qn			
G		kv	Qmax	Qn	Min	Max	Gas	Liquid	Oil							DC	AC			

Delrin body/Sub-base mounting

Normally closed

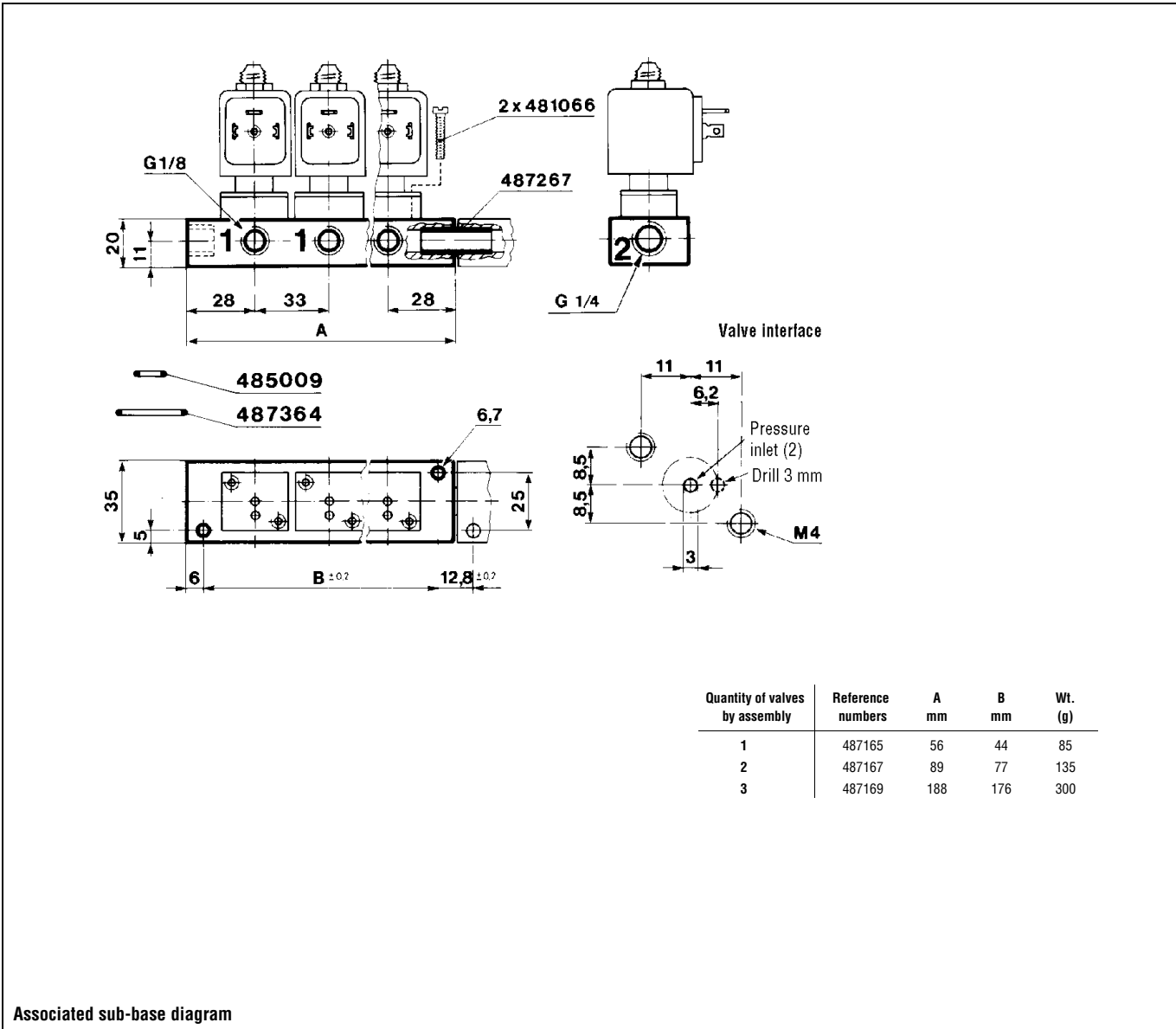
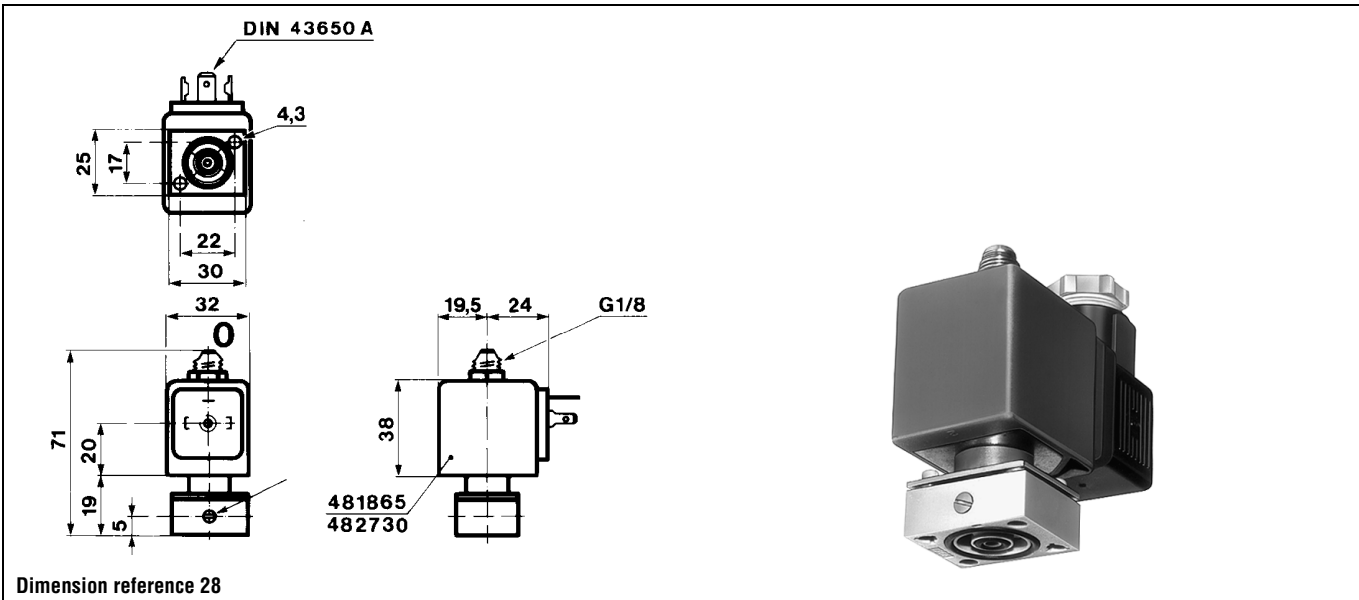


SB	2	2	6.5	140	0	10	10	50	-	-	FKM	7131FDF2JV00	E131F26	1	2995	481865	2	-	8	200	2	28
	2	2	6.5	140	0	10	10	50	-	-	FKM				2995	482730	7	6	200	2		

Notes:

- * See Electrical Parts Group table at end of section
- 1. Manual override standard
- 2. 20% Switch-on - max. 2 min.

General application valves 3/2 - Direct operated



General application valves for dry or lubricated air, neutral gases and liquids

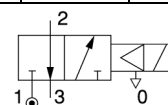
3/2



Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G						DC	AC													

Normally closed



Anod. aluminium body/Pipe mounting

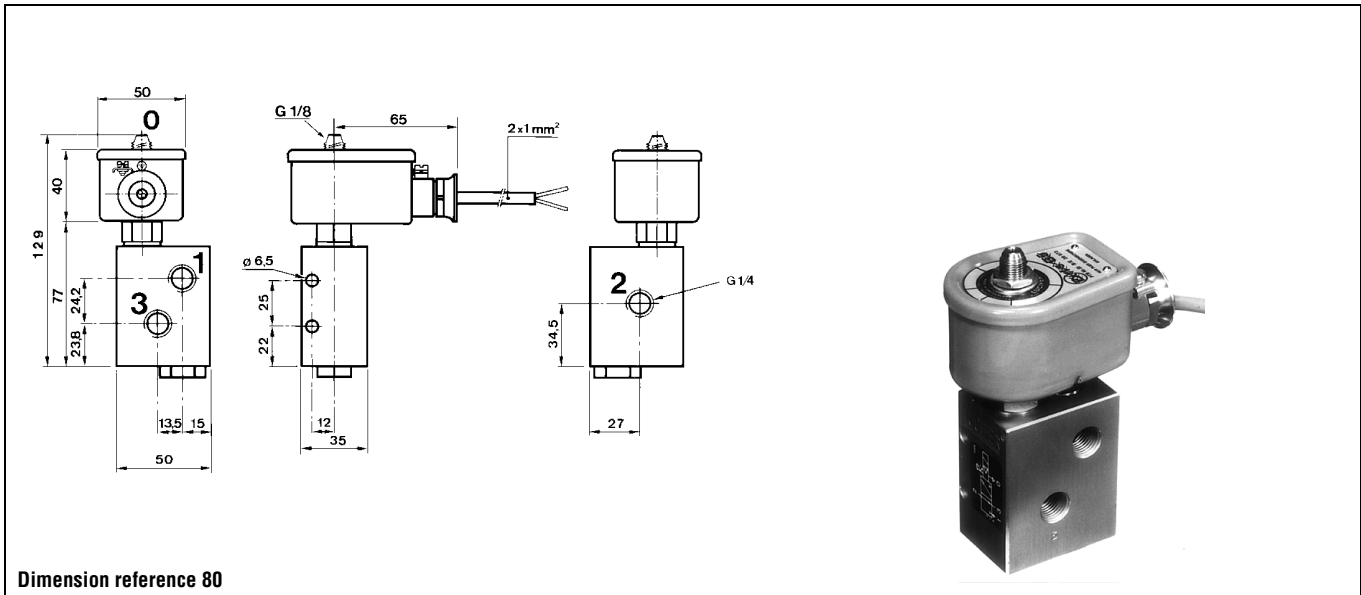
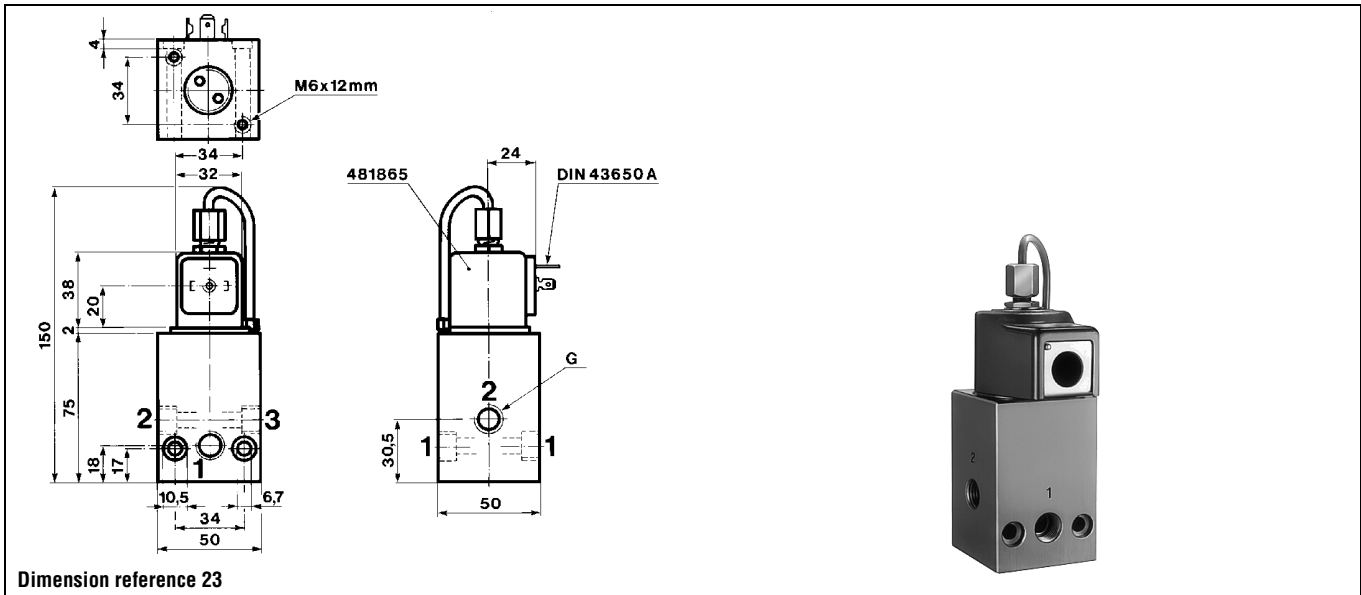
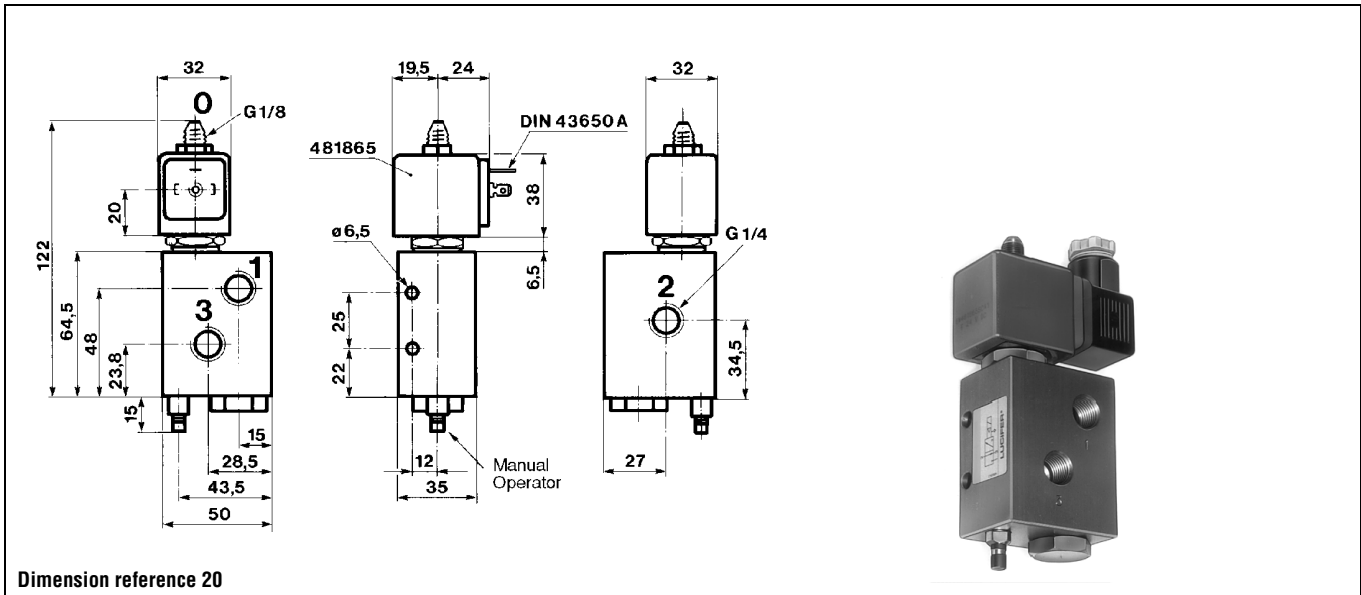
1/4	6.5	-	-	750	1	10	-	75	-	-	NBR	7331BAG2KNL2	331B7480	2995	482740	1.6	-	510	6	20
	6.5	10	-	645	1	10	-	75	-	-	NBR	-	331B7490	¹ -	483580.01 ²	0.4	-	485	7	80
	6.5	-	-	750	1	10	10	75	-	-	NBR	7331BAG2KNMO	E331B74	³ 2995	481865	9	8	510	2	20
	8	10	10	750	1	40	40	75	-	75	NBR	7331BAG2KN00	331B02	⁴ 2995	481865	9	8	880	2	23
	8	10	10	750	1	40	40	75	-	75	NBR			4270	481000	8	8	1000	2	

Table continued on page 152

Notes:

- * See Electrical Parts Group table at end of section
- 1. Other coil-housing available: 488650.01, 488660.01, 488670.01 (refer to electrical parts at end of this section)
- 2. This reference no. is for the complete electrical part (coil + housing)
- 3. Manual override standard
- 4. Pilot seat discs from Kel-F (PCTFE); valve with pilot return pipe

General application valves 3/2 - Pilot operated

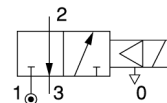


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
		kv	Qmax	Qn		DC	AC													
G																				

Anod. aluminium body/Pipe mounting

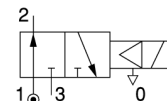
Normally closed



1/4	8	20	20	1100	1	15	15	75	-	75	NBR	7331BAG2QN00	E331B01	2995	481865	9	8	880	2	21
	8	20	20	1100	1	15	15	75	-	75	NBR			4270	481000	8	8	1000	2	
1/2	14	-	-	2500	1	15	15	75	-	-	NBR	7331BAG4QN00	E331B21	2995	481865	9	8	980	2	24
	14	-	-	2500	1	15	15	75	-	-	NBR			4270	481000	8	8	1100	2	

Anod. aluminium body/Pipe mounting

Normally open



1/4	8	10	10	750	1	40	40	75	-	75	NBR	7332BAG2KN00	332B02	2995	481865	9	8	880	2	25
	8	10	10	750	1	40	40	75	-	75	NBR			4270	481000	8	8	1000	2	

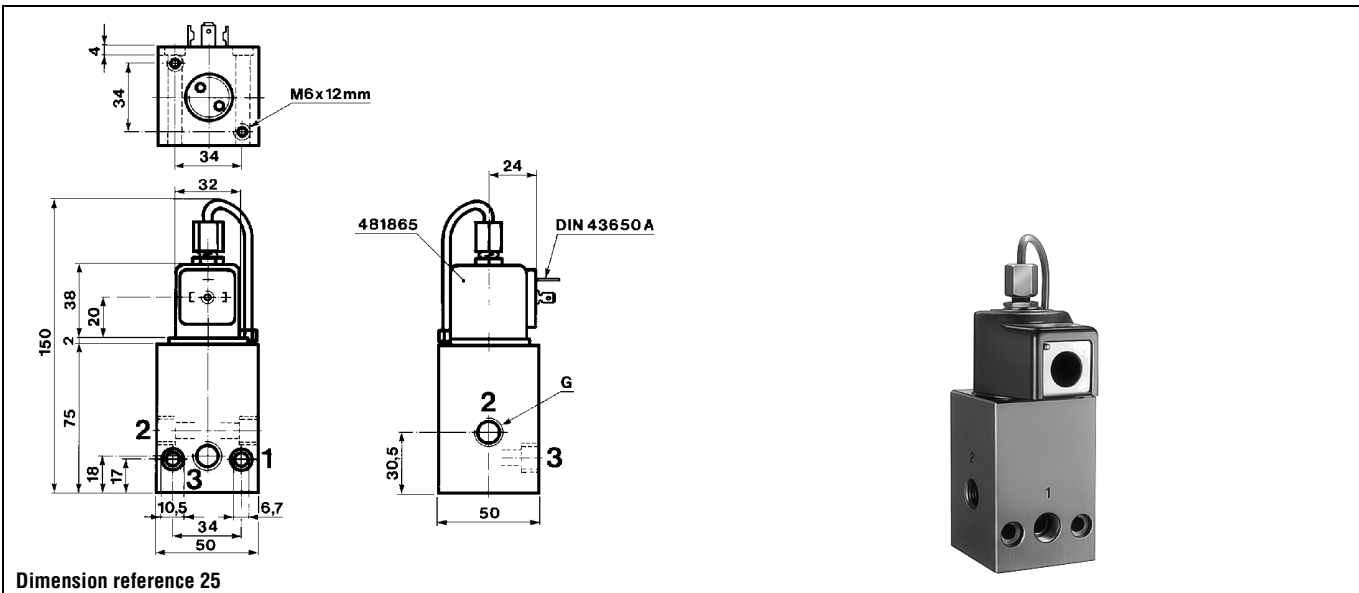
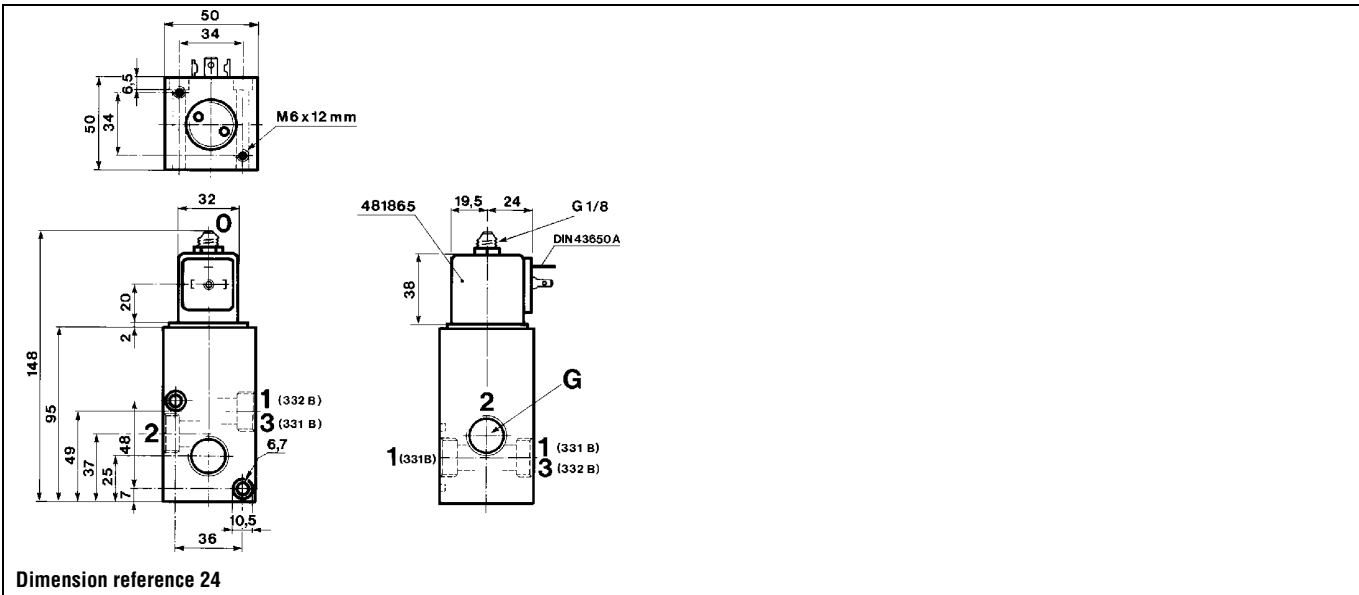
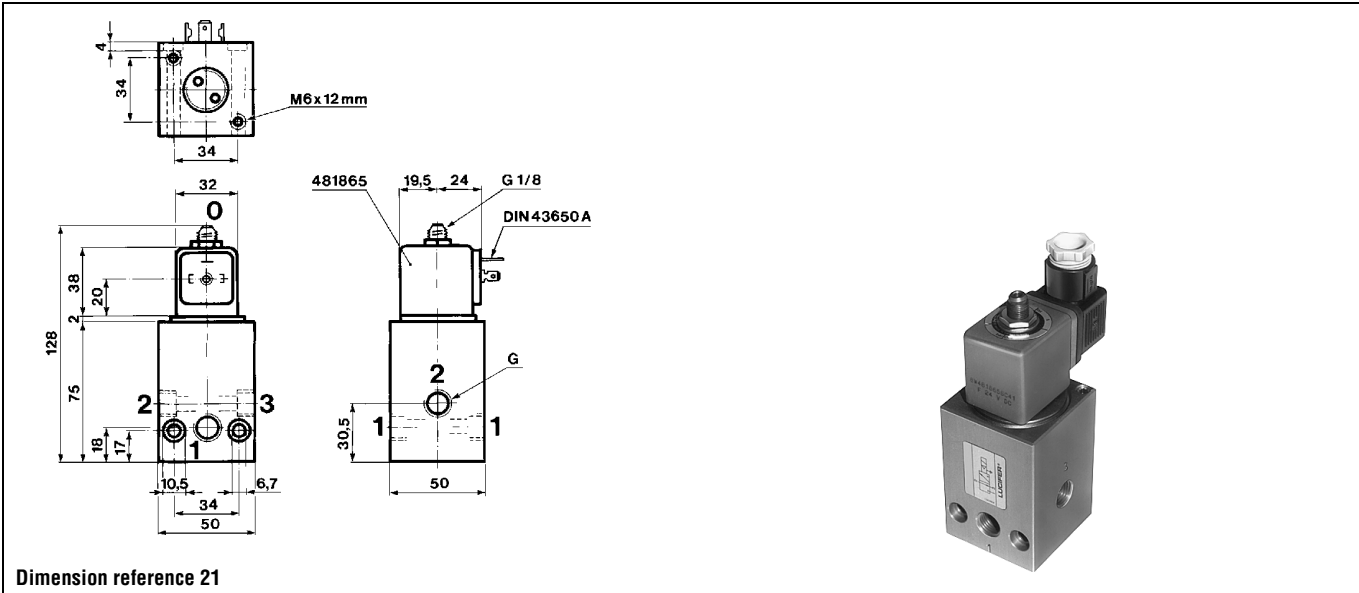
Table continued on page 154

Notes:

* See Electrical Parts Group table at end of section

1. Pilot seat discs from Kel-F (PCTFE); valve with pilot return pipe

General application valves 3/2 - Pilot operated

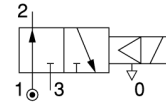


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

Anod. aluminium body/Pipe mounting

Normally open



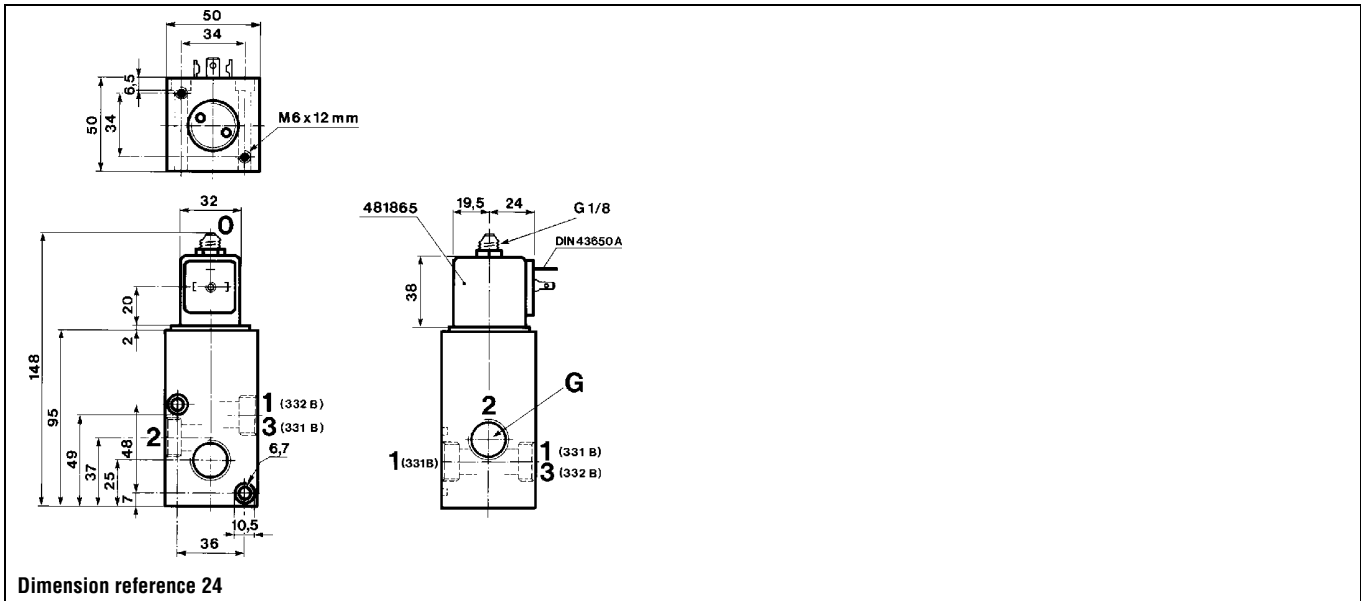
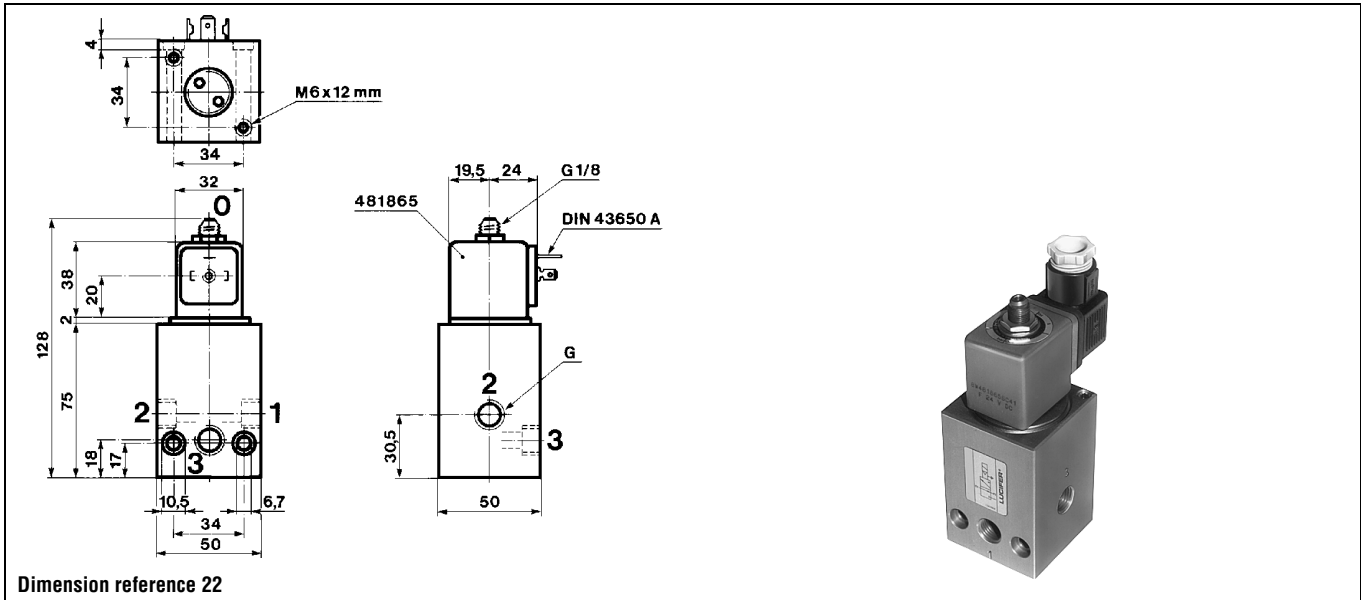
1/4	8	20	20	1100	1	15	15	75	-	75	NBR	7332BAG2QN00	E332B01	2995	481865	9	8	880	2	22
	8	20	20	1100	1	15	15	75	-	75	NBR			4270	481000	8	8	1000	2	
1/2	14	-	-	2500	1	15	15	75	-	-	NBR	7332BAG4QN00	E332B21	2995	481865	9	8	980	2	24
	14	-	-	2500	1	15	15	75	-	-	NBR			4270	481000	8	8	1100	2	

Table continued on page 156

Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Pilot operated

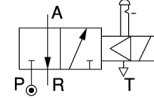


General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
												OR								
		Liquids		Gases	Min	Max	Gas	Liquid	Oil	Global valve reference		Valve reference no.		Housing	Coil					
G		kv	Qmax	Qn		DC	AC							DC	AC					

Anod. aluminium body/Sub-base mounting

Normally closed



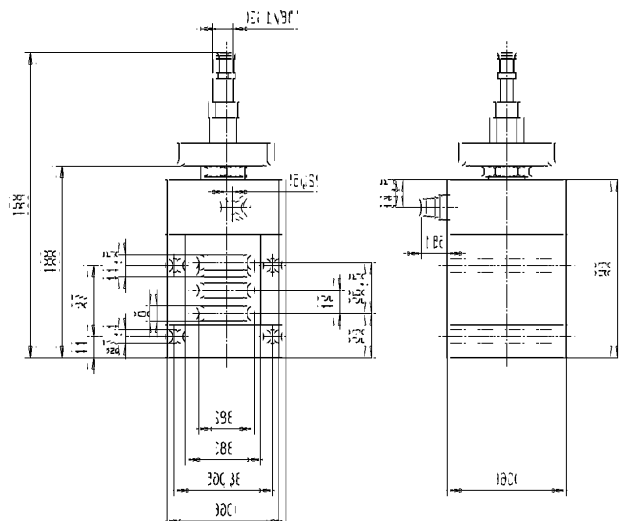
1/2	15	56	-	5000	0.5	10	10	75	-	-	NBR	7331LAV4TN1D	E331L21001D	-	483250	8	8	1715	5	3854
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Table continued on page 158

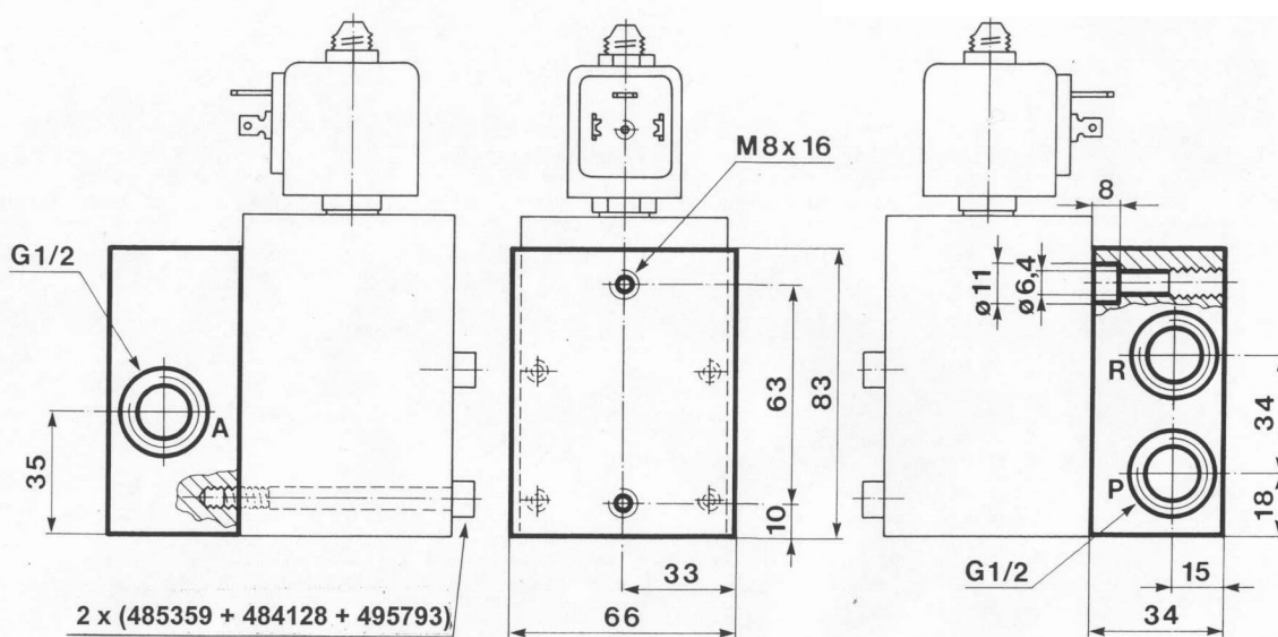
Notes:

* See Electrical Parts Group table at end of section

General application valves 3/2 - Pilot operated



Dimension reference 3854



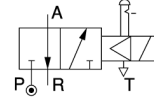
Associated sub-base diagram

General application valves 3/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)	Wt. (g)	El. Part Group *	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference no.	Housing	Coil	DC	AC		
G		kv	Qmax	Qn		DC	AC												

Anod. aluminium body/Sub-base mounting

Normally closed



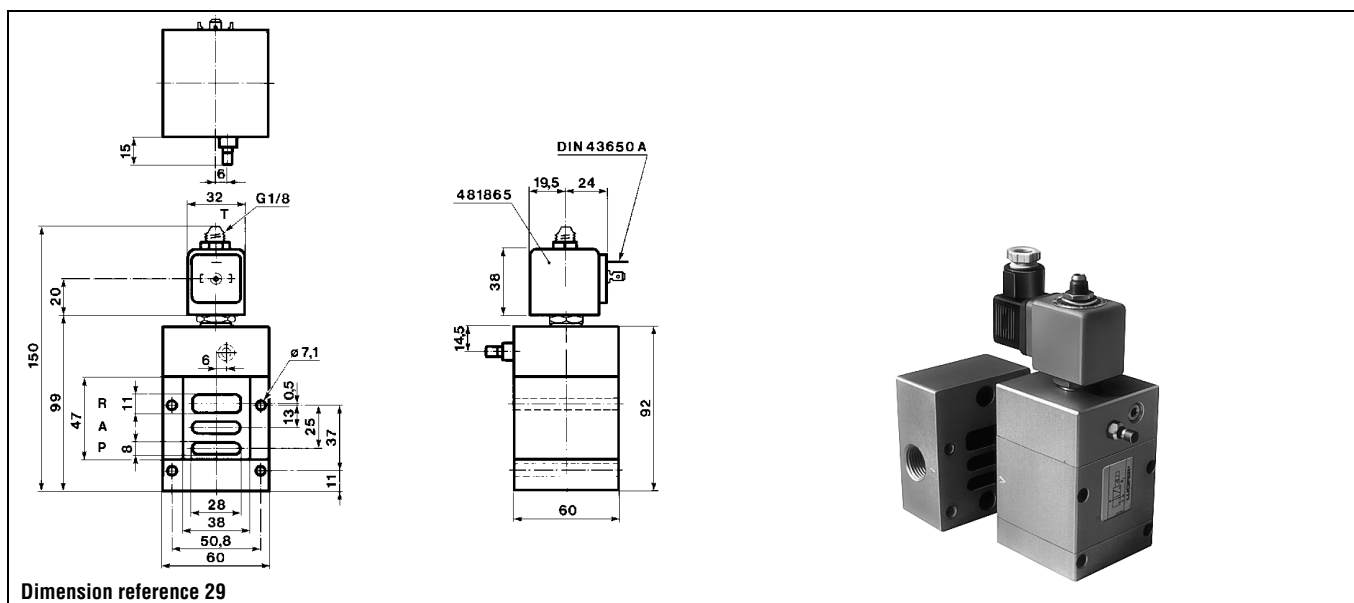
1/2	15	-	-	5000	0.5	10	10	75	-	-	NBR	7331LAV4TNM0	E331L21	1	2995	481865	9	8	880	2	29
	15	-	-	5000	0.5	10	10	75	-	-	NBR				4270	481000	8	8	1100	2	

Notes:

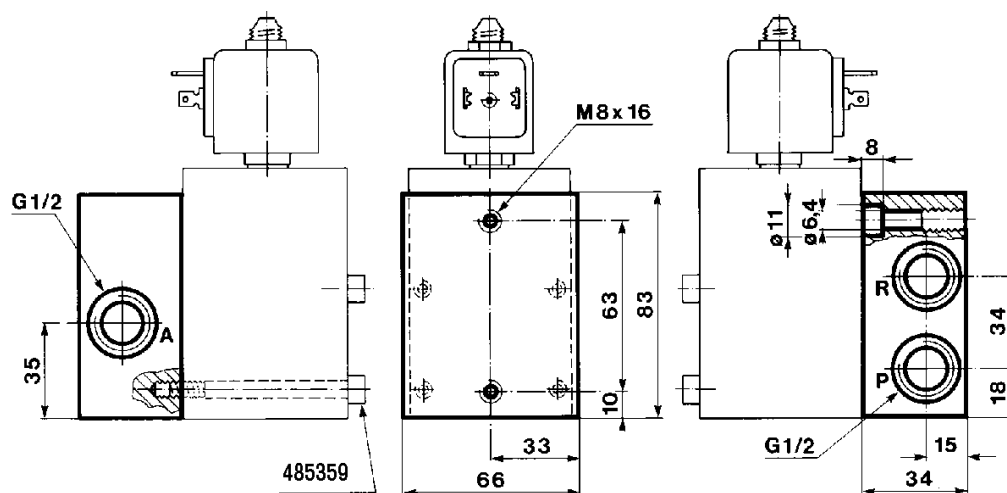
* See Electrical Parts Group table at end of section

1. Manual override standard

General application valves 3/2 - Pilot operated



Sub-base 485291



Associated sub-base diagram

Electrical parts options with 3/2 general application valves for dry or lubricated air, neutral gases and liquids

El.part Group	Coil	Protection class	Protection class / Temperature class	Power		Coil Order No.	Coil Ref. No.	Connection	Housing Order No.	Housing Ref. No.	Ambient temp.	
				DC	AC						min.	max.
1	22 mm	IP 65	Class F	2.5 W	2 W	DA01	488980	for DIN plug	A0	8993	-40	50
		IP 65	Class F	2.5 W	2 W	DA02	481045	with DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA03	481180	for DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA04	481530	with DIN plug	A0	8993	-40	50
		IP 65	EEx m II T4	5 W	4 W	VA01	482605	with 1500mm cable	00	-	-40	50
		IP 65	EEx m II T5	2.5 W	2 W	VA02	482606	with 1500mm cable	00	-	-40	50
2	32 mm (Std)	IP 65	Class F	9 W	8 W	DZ02	481865	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ03	482725	with DIN plug	N1	2995	-40	50
		IP 65	Class H	9 W	8 W	DZ04	492453	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ05	492726	with DIN plug	N1	2995	-40	50
		IP 65	Class F, 50/60 Hz	-	9 W	DZ06	483510	for DIN plug	N1	2995	-40	50
		IP 65		-	9 W	DZ07	482635	with DIN plug	N1	2995	-40	50
		IP 65	EEx m II T4	9 W	8 W	HZ05	492670	with 3000mm cable	00	-	-40	40
		IP 65	Class H	14 W	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
	50 mm (Std)	IP 10 / IP 44	Class F	8 W	8 W	EZ01	481000	screw-terminals	E0	4270	-40	50
		IP 10 / IP 44	Class H	8 W	8 W	EZ02	485100	screw-terminals	E0	4270	-40	50
		IP 10 / IP 44	Class H	14 W	14 W	EZ92	486265	screw-terminals	E0	4270	-40	50
		IP 67	Class F, M20x1.5	8 W	8 W	EZ01	481000	screw-terminals	G1	4538	-40	50
		IP 65	EEx m II T5/T4	9 W	8 W	VZ01	492070	with 1500mm cable	00	-	-40	40/65
		IP 67	EEx me II T4	8 W	8 W	HZ06	483371	for cable connection	00	-	-40	65
		IP 66	EEx me II T3/T4	11 W	9 W	VZ03	492190	for cable connection	00	-	-40	75/40
3	32 mm	IP 65	Class H	-	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
4	50 mm (impulse)	IP 10 / IP 44	Class F	-	11 W	MZ01	484990	screw-terminals	E1	4269	-40	50
		IP 10 / IP 44	Class F	13 W	-	MZ02	485400	screw-terminals	E1	4269	-40	50
5	50 mm	IP 54	EEx d IIC T4/T5/T6	8 W	8 W	HZ08	483250	for cable 1/2 NPT	00	-	-40	80/75/60
6	32 mm (Miniwatt)	IP 65	Class F	1.6 W	-	DZ10	482740	for DIN plug	N1	2995	-40	50
		IP 65	Class F	1.6W	-	DZ11	482745	with DIN plug	N1	2995	-40	50
	50 mm (Miniwatt)	IP 67	EEx me II T5	2.5 W	-	VZ04	491117	for cable connection	00	-	-40	65
		IP 67	EEx m II T5/T4	2.5 W	2.5 W	VZ05	492370	with 1500mm cable	00	-	-40	40/65
		IP 66	EEx me II T6/T5	2.5 W	2.5 W	VZ06	492390	for cable connection	00	-	-40	40/75
7	32 mm	IP 65	EEx ia II C T6	0.4 W	-	DZ12	483580.01	for DIN plug	N1	2995	-40	55
		IP 65		0.4 W	-	DZ13	483960.01	with DIN plug	N1	2995	-40	55
	50 mm	IP 66	EEx ia II C T6	0.4 W	-	VZ07	488650.01	for cable connection	00	-	-40	65
		IP 67		0.4 W	-	VZ08	488660.01	with 2000mm cable	00	-	-40	65
		IP 65		0.4 W	-	VZ09	488670.01	with DIN plug	00	-	-40	65

Note: This table is indicative only. Please contact your distributor to confirm your selection.