Butterfly Valve

MAMMOUTH

Actuator Selection



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Actuator Selection MAMMOUTH

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Information

Related documents

For more information refer to the documents listed below and to the KSB web site.

Table 1: Information/documents

Document	Reference number
Operating manual	8449.8
MAMMOUTH type series booklet	8612.12

Flow velocities

The following is a typical selection of actuators for butterfly valves handling fluids at the maximum flow velocities shown. Higher flow velocities and further actuator/valve combinations are possible, depending on the operating conditions and hydraulic characteristics. Contact KSB.

Table 2: Overview table of maximum flow velocities for MAMMOUTH

DN	Fluids handled
	Lubricating fluids
	[m/s]
1050-3000	2

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Actuators

Manual Gearboxes

MR/AB

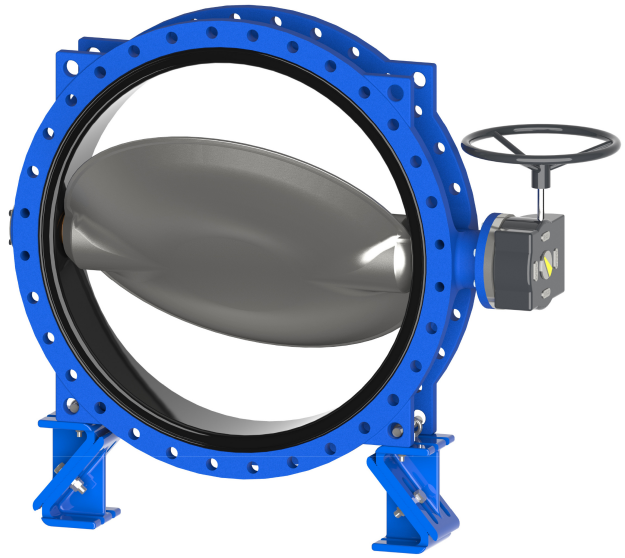


Fig. 1: Unit comprising MAMMOUTH + AB manual gearbox

Table 3: MAMMOUTH 6

DN	Shaft end		Maximum pressure	Lubricating fluids	
	s	h3		KSB	Rotork
		[mm]	[bar]	Type MR	Type AB
1250	C70/C90	110/90	6	MR800	C70: AB3000/PR6 C90: A200/PR10
1300	C70/C90	110/90			
1350	C70/C90	110/90			
1400	C70/C90	110/90			
1500	C70/C90	110/90			
1600	C90	90		MR1200	
1650	C90	90			
1800	C90	90		MR1600	A200N/PR10
1950	C90	90		-	
2000	C90	90		-	
2100	C90	90		-	AB250N/PR10
2200	C90/C110	90/110		-	
2250	C110	110		-	-
2400	C110	110		-	-
2550	C110/140	110/140		-	-
2600	C110	110		-	-
2700	C140	140		-	-
2800	C140	140		-	-
2850	C140	140		-	-
3000	C140	140		-	-

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Table 4: MAMMOUTH 10

DN	Shaft end		Maximum pressure	Lubricating fluids	
	s	h3		KSB	Rotork
		[mm]	[bar]	Type MR	Type AB
1050	C60	80	10	MR600	AB1950/PR4
1100	C60	80			
1200	C60	80		MR800	
	C90	90		MR1200	A200/PR10
1300	C90	90			
1350	C90	90			
1400	C90	90			
1500	C90	90			
1600	C90	90		MR1600	
1650	C90	90			
1800	C90	90		-	
1950	C90	90		-	
2000	C110	110		-	AB250/PR10
2100	C110	110		-	
2200	C110	110		-	-
2250	C110	110		-	-
	C110/140	110/140		-	-
2400	C110	110		-	-

Table 5: MAMMOUTH 16

DN	Shaft end		Maximum pressure	Lubricating fluids	
	s	h3		KSB	Rotork
		[mm]	[bar]	Type MR	Type AB
1100	C90	90	16	MR1200	A200/PR10
1200	C90	90			
1300	C90	90		MR1600	A200/PR10
1350	C90	90			
1400	C90	90			
1500	C90	90		MR1600[1)]	
1600	C90	90		-	
1650	C90	90		-	
1800	C90	90		--	AB250/PR10
1950	C110	110		-	-
2000	C110	110		-	-
2100	C110	110		-	-

Table 6: MAMMOUTH 20

DN	Shaft end		Maximum pressure	Lubricating fluids	
	s	h3		KSB	Rotork
		[mm]	[bar]	Type MR	Type AB
1100	C90	90	20	MR1200	A200/PR10
1200	C90	90		MR1600	
1300	C90	90		MR1600	A200/PR10
1350	C90	90			
1400	C90	90		-	
1500	C90	90		-	
1600	C90	90		-	AB250/PR10
1650	C90	90		-	
1800	C110	110		-	-
1950	C110	110		-	-
2000	C110	110		-	-

1 For F30 top flange only

Table 7: MAMMOUTH 25

DN	Shaft end		Maximum pressure	Lubricating fluids	
	s	h3		KSB	Rotork
		[mm]	[bar]	Type MR	Type AB
1100	C90	90	25	MR1600	A200/PR10
1200	C90	90			
1300	C90	90		-	A200/PR10
1350	C90	90		-	
1400	C90	90		-	AB250/PR10
1500	C90	90		-	
1600	C110	110		-	-
1650	C110	110		-	-
1800	C110	110		-	-

Hydraulic Actuators

HQ

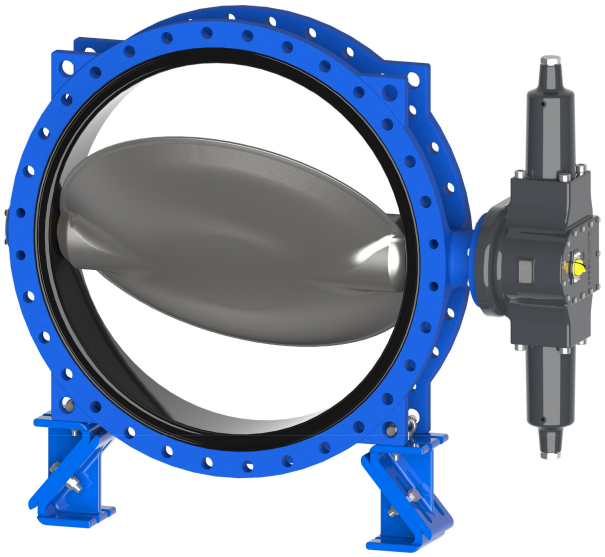


Fig. 2: Unit comprising MAMMOUTH + HQ actuator

Table 8: MAMMOUTH 6

DN	Shaft end		Maximum pressure	Lubricating fluids		
				Hydraulic pressure		
	s	h3		80	90	120/135
		[mm]	[bar]	[bar]	[bar]	[bar]
1300	C90	90	6	1600	1600	1600
1350	C90	90				
1400	C90	90				
1500	C90	90				
1600	C90	90				
1650	C90	90				
1800	C90	90				
1950	C90	90				
2000	C90	90		-		
2100	C90	90		-		
2200	C90	90		-	-	
	C110	110		-	-	-

Table 9: MAMMOUTH 10

DN	Shaft end		Maximum pressure	Lubricating fluids		
				Hydraulic pressure		
	s	h3		80	90	120/135
		[mm]	[bar]	[bar]	[bar]	[bar]
1050	C60	80	10	800	800	800
1100	C60	80				
1200	C60	80				
1250	C90	90		1600	1600	1600
1300	C90	90				
1350	C90	90				
1400	C90	90				
1500	C90	90				
1600	C90	90				
1650	C90	90				
1800	C90	90				
1950	C90	90				
2000	C110	110		-	-	-
2100	C110	110		-	-	-

Table 10: MAMMOUTH 16

DN	Shaft end		Maximum pressure	Lubricating fluids		
				Hydraulic pressure		
	s	h3		80	90	120/135
		[mm]	[bar]	[bar]	[bar]	[bar]
1100	C90	90	16	1600	1600	1600
1200	C90	90				
1300	C90	90				
1350	C90	90				
1400	C90	90				
1500	C90	90				
1600	C90	90				
1650	C90	90				
1800	C90	90		-	-	
1950	C110	110		-	-	-
2000	C110	110		-	-	-
2100	C110	110		-	-	-

Table 11: MAMMOUTH 20

DN	Shaft end		Maximum pressure	Lubricating fluids		
				Hydraulic pressure		
	s	h3		80	90	120/135
		[mm]	[bar]	[bar]	[bar]	[bar]
1100	C90	90	20	1600	1600	1600
1200	C90	90				
1300	C90	90				
1350	C90	90				
1400	C90	90				
1500	C90	90				
1600	C90	90		-		
1650	C90	90		-	-	
1800	C110	110		-	-	-
1950	C110	110		-	-	-
2000	C110	110		-	-	-

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Table 12: MAMMOUTH 25

DN	Shaft end		Maximum pressure	Lubricating fluids		
				Hydraulic pressure		
	s	h3		80	90	120/135
		[mm]	[bar]	[bar]	[bar]	[bar]
1100	C90	90	25	1600	1600	1600
1200	C90	90				
1300	C90	90				
1350	C90	90				
1400	C90	90		-		
1500	C90	90		-	-	
1600	C110	110		-	-	-
1650	C110	110		-	-	-
1800	C110	110		-	-	-

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