

MB-3 MONOBLOCK VALVE



MB-3 HANDSTEUERVENTIL

HYDROMOT
Hydraulic solutions.

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Handsteuerventil MB-3

- kompakte Bauweise
- geringe Druckverluste
- hohe Lebensdauer und Wirtschaftlichkeit
- verschiedene Anschlussmöglichkeiten und Kreislaufsteuerungen
- langanhaltende Steuerungspräzision

Monoblock Valve MB-3

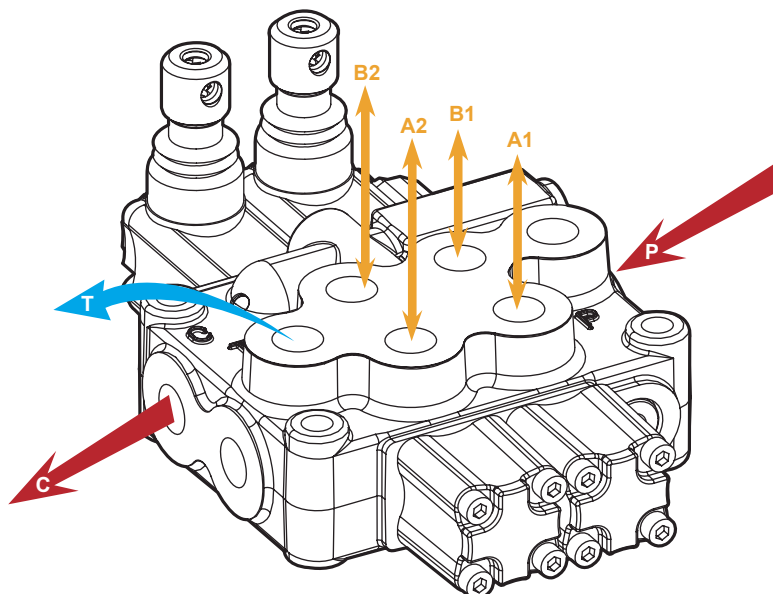
- compact construction
- low pressure drop
- long service life and efficiency
- various ports and circuits
- long term accuracy



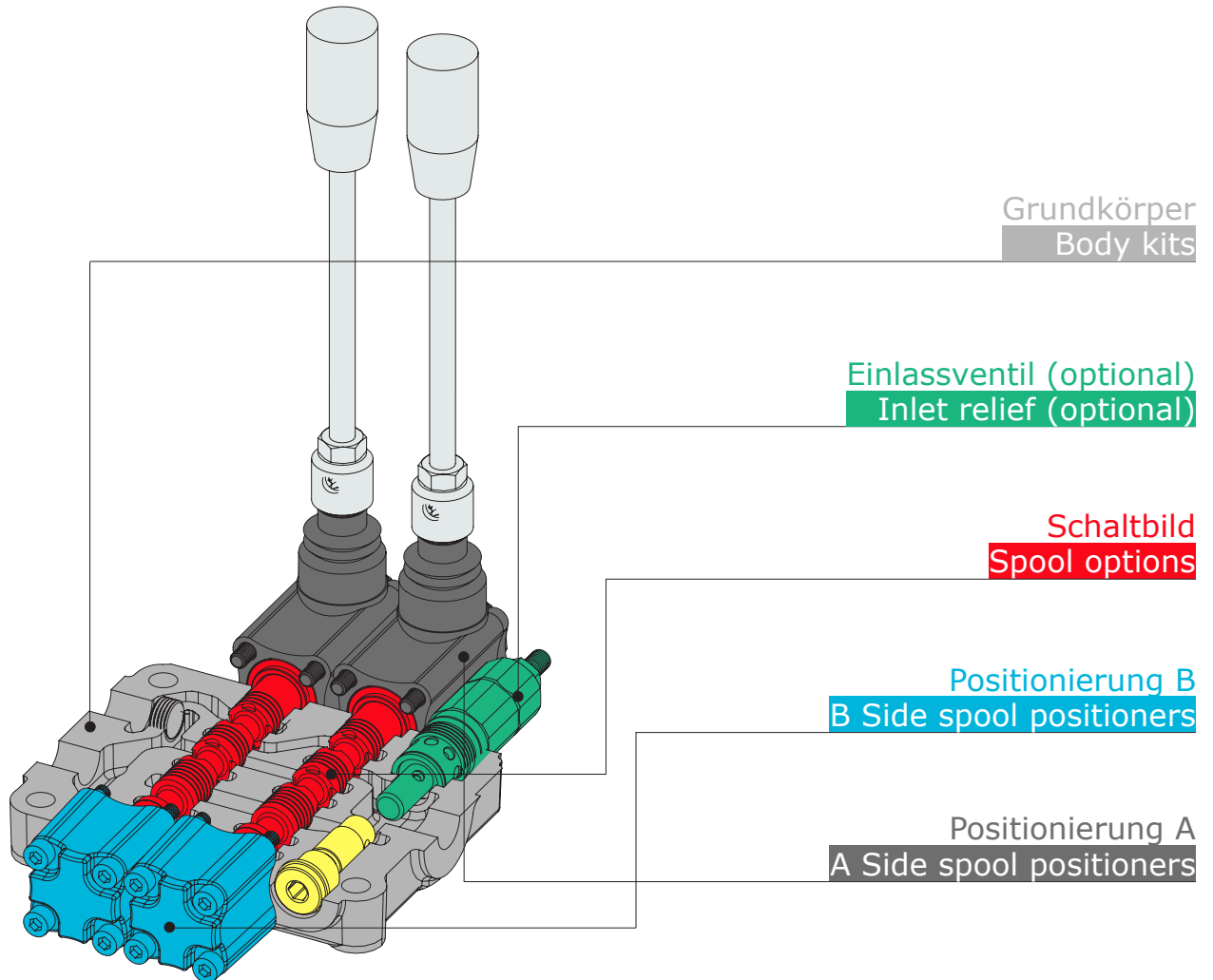
Technische Daten | Technical Data

Volumenstrom [l/min] Flow rate		45
Max. Arbeitsdruck [bar] Max. Operating pressure	Parallel oder Reihenschaltung Parallel or tandem circuit	315
	Reihenschaltung Series circuit	210
Max. Gegendruck an Tankanschluss T [bar] Max. Back pressure on outletport T		25
Temperaturbereich Einsatzmittel [°C] Fluid temperature range	NBR (BUNA-N) Dichtung NBR (BUNA-N) seal	-20 bis 80 -20 to 80
	FPM (Viton) Dichtung FPM (Viton) seal	-20 bis 100 -20 to 100
Viskosität [mm²/s] Viscosity	Arbeitsbereich Operating range	15 bis 75 15 to 75
	Min.	12
	Max.	400
Umgebungstemperatur [°C] Ambient temperature		-40 bis 60 -40 to 60

Installationshinweis | Mounting Instruction



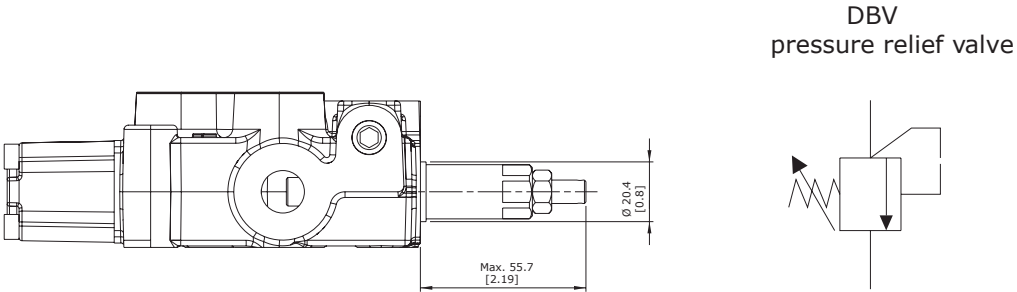
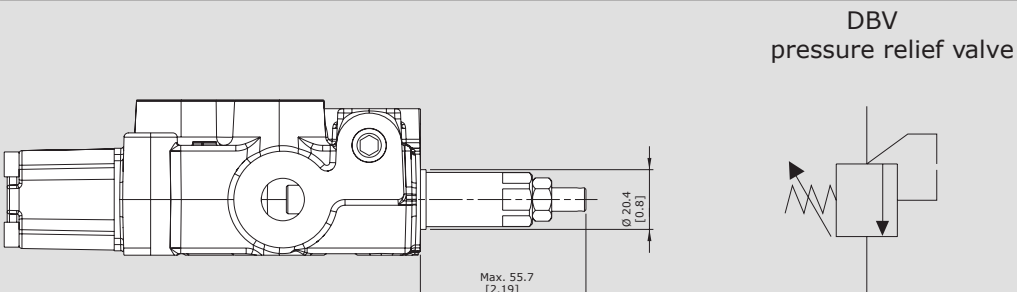
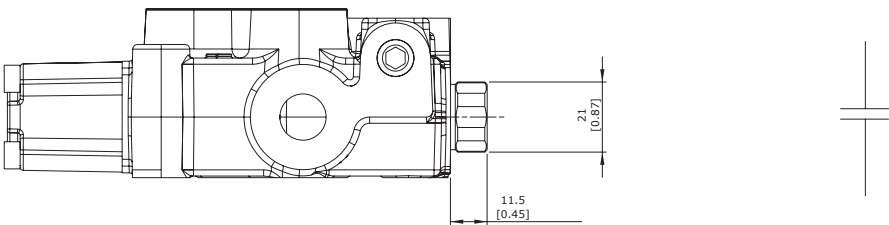
Prinzipieller Aufbau | Basic Construction




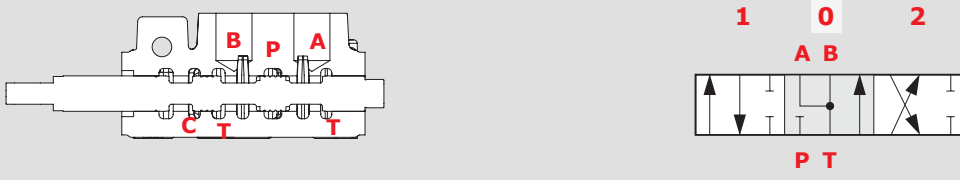

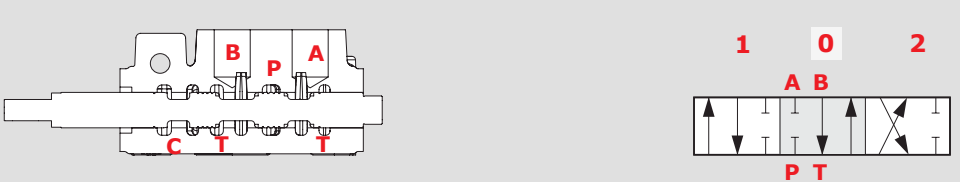

Grundkörper | Body Kits

Typ Type	Beschreibung Description
1S	1 Sektion 1 Section
2S	2 Sektion 2 Section
3S	3 Sektion 3 Section
4S	4 Sektion 4 Section
5S	5 Sektion 5 Section
6S	6 Sektion 6 Section


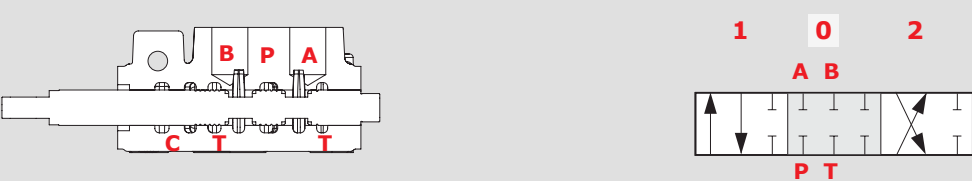

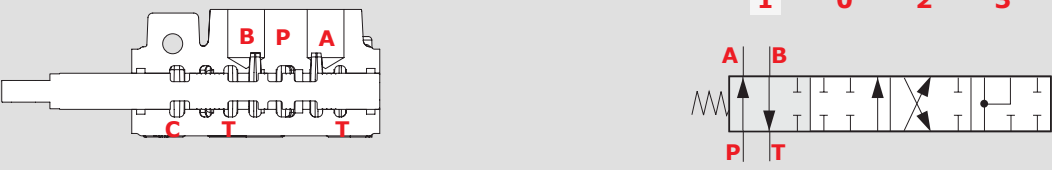

Einlassventil | Inlet Relief

Typ Type	Beschreibung Description
3	<p>Arbeitsbereich von 63 bis 200 Bar, Standardeinstellung 120 Bar Range 63 to 200 Bar, standard setting 120 Bar</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>
4	<p>Arbeitsbereich von 160 bis 315 Bar, Standardeinstellung 220 Bar Range 160 to 315 Bar, standard setting 220 Bar</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>
VS	<p>Verschlussstopfen Blanking plug</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>

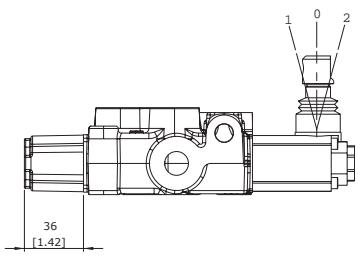

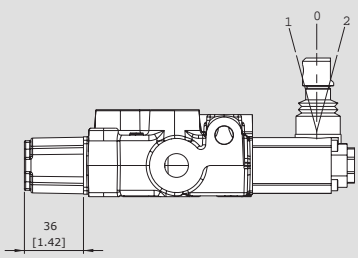
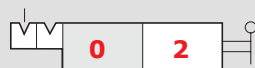
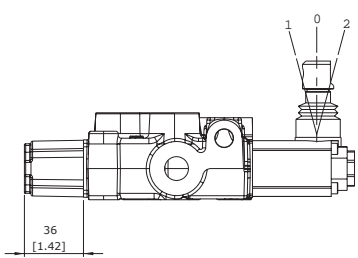

Schaltbilder | Spool Options

Typ Type	Beschreibung Description
1	3 Positionen, doppelwirkend, A-B-P-T geschlossen in Nullstellung 3 Positions, double acting, with A-B-P-T closed in neutral position
 <p>The cross-section shows a spool valve with ports B, P, A, C, T, and T. The schematic shows three positions: 1 (A to B, P to T), 0 (all closed), and 2 (B to A, P to T).</p>	
2	3 Positionen, doppelwirkend, A-B-T verbunden in Nullstellung, P geschlossen 3 Positions, double acting, with A-B open to T in neutral position, P closed
 <p>The cross-section shows a spool valve with ports B, P, A, C, T, and T. The schematic shows three positions: 1 (A to B, P to T), 0 (A-B to T, P closed), and 2 (B to A, P to T).</p>	
3	3 Positionen, einfachwirkend an A, A-P-T geschlossen, B verschlossen 3 Positions, single acting on A, A-P-T closed in neutral position, B plugged
 <p>The cross-section shows a spool valve with ports B, P, A, C, T, and T. The schematic shows three positions: 1 (A to T), 0 (A-P-T closed, B plugged), and 2 (B to A, P to T).</p>	
5	3 Positionen, doppelwirkend, B-T verbunden in Nullstellung, A-P geschlossen 3 Positions, double acting, with B open to T in neutral position, A-P closed
 <p>The cross-section shows a spool valve with ports B, P, A, C, T, and T. The schematic shows three positions: 1 (A to B, P to T), 0 (B to T, A-P closed), and 2 (B to A, P to T).</p>	
6	3 Positionen, doppelwirkend, A-T verbunden in Nullstellung, B und P geschlossen 3 Positions, double acting, with A open to T in neutral position, B and P closed
 <p>The cross-section shows a spool valve with ports B, P, A, C, T, and T. The schematic shows three positions: 1 (A to B, P to T), 0 (A to T, B and P closed), and 2 (B to A, P to T).</p>	

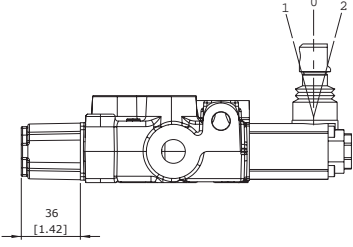

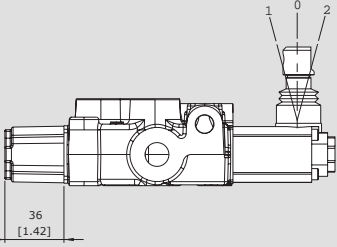

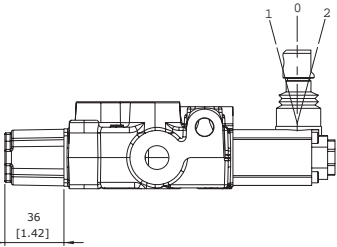

Schaltbilder | Spool Options

Typ Type	Beschreibung Description
7	3 Positionen, einfachwirkend an A, A-T verbunden, P geschlossen, B verschlossen 3 Positions, single acting o A, A open to T in neutral position, P closed, B plugged
 <p>The diagram shows a cross-section of a 3-position, single-acting valve. The spool has three positions: 1 (left), 0 (center), and 2 (right). In position 0, port A is connected to port T, while port B is closed and port P is closed. In position 1, port A is connected to port P, and port B is closed. In position 2, port A is connected to port T, and port B is closed.</p>	
9	3 Positionen, doppelwirkend, A-B-P-T geschlossen in Nullstellung 3 Positions, double acting, with A-B-P-T closed in neutral position (Closed center)
 <p>The diagram shows a cross-section of a 3-position, double-acting valve with a closed center. The spool has three positions: 1 (left), 0 (center), and 2 (right). In position 0, all ports (A, B, P, T) are closed. In position 1, port A is connected to port P and port B is connected to port T. In position 2, port B is connected to port P and port A is connected to port T.</p>	
10	3 Positionen, doppelwirkend, A-B-T verbunden, P geschlossen 3 Positions, double acting, A-B open to T, P closed (Closed center)
 <p>The diagram shows a cross-section of a 3-position, double-acting valve with a closed center. The spool has three positions: 1 (left), 0 (center), and 2 (right). In position 0, all ports (A, B, P, T) are closed. In position 1, port A is connected to port T and port B is connected to port T. In position 2, port B is connected to port T and port A is connected to port T.</p>	
Z41	4 Positionen, doppelwirkend, Eilgang in Pos. 3 mit A-B-P verbunden (Verbleib in Pos. 1) 4 Positions, double act., regenerative circuit in pos. 3 with P open to A-B (Rest in pos. 1)
 <p>The diagram shows a cross-section of a 4-position, double-acting valve with a regenerative circuit. The spool has four positions: 1 (left), 0 (center), 2 (right), and 3 (rightmost). In position 0, all ports (A, B, P, T) are closed. In position 1, port A is connected to port P and port B is connected to port T. In position 2, port B is connected to port P and port A is connected to port T. In position 3, port A is connected to port P and port B is connected to port P.</p>	
Z42	4 Positionen, doppelwirkend, Eilgang in Pos. 3 mit A-B-P verbunden (Verbleib in Pos. 0) 4 Positions, double act., regenerative circuit in pos. 3 with P open to A-B (Rest in pos. 0)
 <p>The diagram shows a cross-section of a 4-position, double-acting valve with a regenerative circuit. The spool has four positions: 1 (left), 0 (center), 2 (right), and 3 (rightmost). In position 0, all ports (A, B, P, T) are closed. In position 1, port A is connected to port P and port B is connected to port T. In position 2, port B is connected to port P and port A is connected to port T. In position 3, port A is connected to port P and port B is connected to port P.</p>	


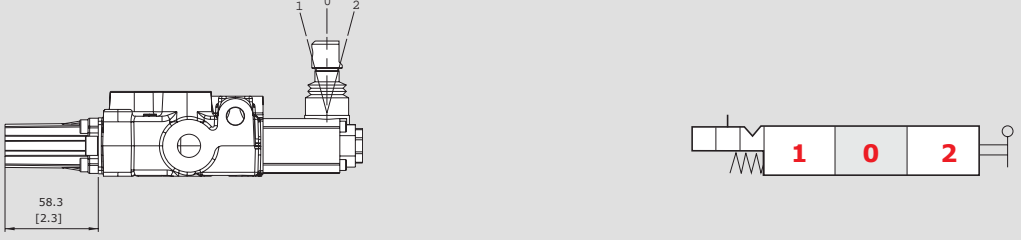

Positionierer B | B Side Spool Positioners

Typ Type	Beschreibung Description
6-1	3 Positionen, Rastung in Pos. 1-0-2, ohne Federzentrierung 3 Positions, detent in pos. 1-0-2, without spring centered
 	
6-2	2 Positionen, Rastung in Pos. 0-2, ohne Federzentrierung 2 Positions, detent in pos. 0-2, without spring centered
 	
6-3	2 Positionen, Rastung in Pos. 1-0, ohne Federzentrierung 2 Positions, detent in pos. 1-2, without spring centered
 	

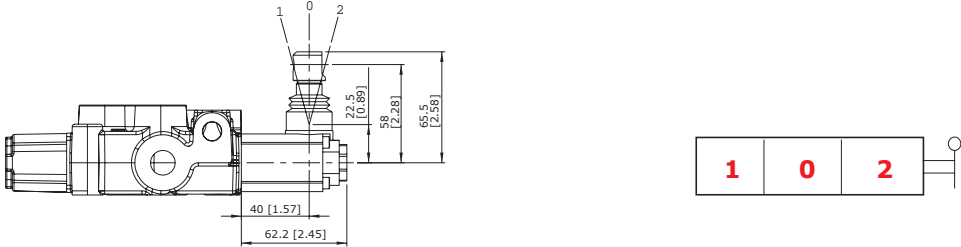
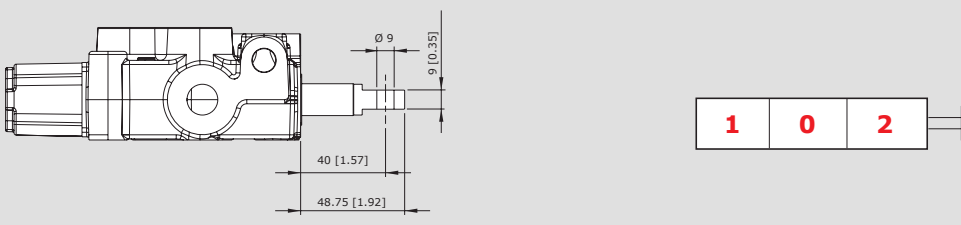
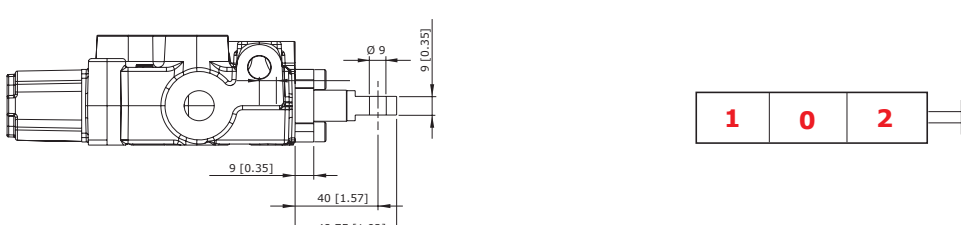
Positionierer B | B Side Spool Positioners

Typ Type	Beschreibung Description
8	3 Positionen, Federzentrierung zur Neutralstellung 3 Positions, spring return to neutral
 	
8-1	2 Positionen, Federzentrierung zur Neutralstellung 2 Positions, spring return to neutral
 	
8-2	2 Positionen, Federzentrierung zur Neutralstellung 2 Positions, spring return to neutral
 	

Positionierer B | B Side Spool Positioners

Typ Type	Beschreibung Description
9-1	3 Positionen, Rastung in Pos. 1-2, Federzentrierung 3 Positions, detent in pos. 1-2, spring centered
	
9-2	3 Positionen, Rastung in Pos. 2, Federzentrierung 3 Positions, detent in pos. 2, spring centered
	
9-3	3 Positionen, Rastung in Pos. 1, Federzentrierung 3 Positions, detent in pos. 1, spring centered
	

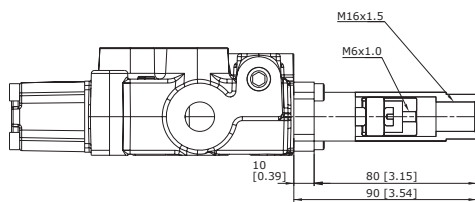
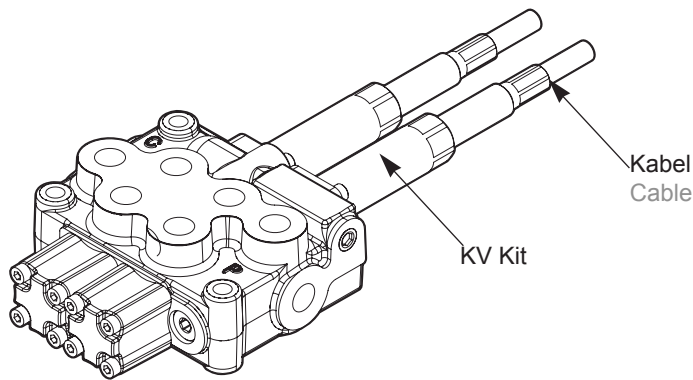
Positionierer A | A Side Spool Positioners

Typ Type	Beschreibung Description
L	Standardhandhebel Standard lever box
 <p>Technical drawing of the standard lever box (L) showing dimensions and a 3-position symbol (1, 0, 2). Dimensions include: 22.5 [0.89], 58 [2.28], 65.5 [2.58], 40 [1.57], and 62.2 [2.45]. The symbol shows three positions labeled 1, 0, and 2.</p>	
SL	Ohne Handhebel Without any cover
 <p>Technical drawing of the lever box without a cover (SL) showing dimensions and a 3-position symbol (1, 0, 2). Dimensions include: 9 [0.35], 40 [1.57], and 48.75 [1.92]. The symbol shows three positions labeled 1, 0, and 2.</p>	
SPL	Staubschutzplatte, ohne Handhebel With dust-proof plate
 <p>Technical drawing of the lever box with a dust-proof plate (SPL) showing dimensions and a 3-position symbol (1, 0, 2). Dimensions include: 9 [0.35], 40 [1.57], and 48.75 [1.92]. The symbol shows three positions labeled 1, 0, and 2.</p>	

Positionierer A | A Side Spool Positioners

Typ Type	Beschreibung Description
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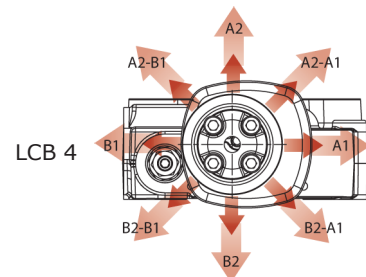
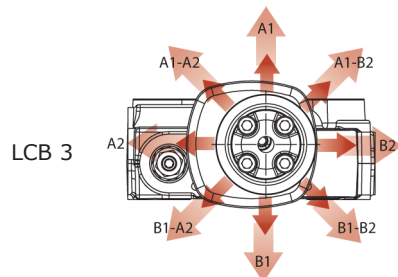
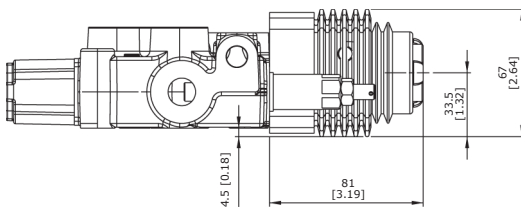
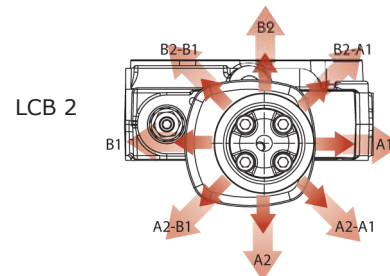
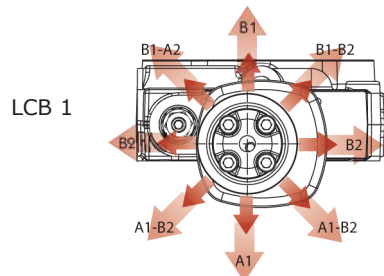
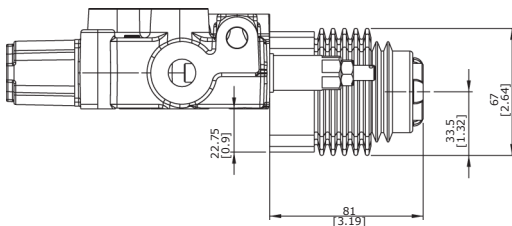
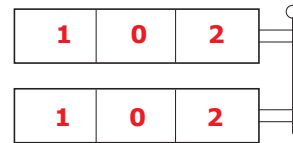
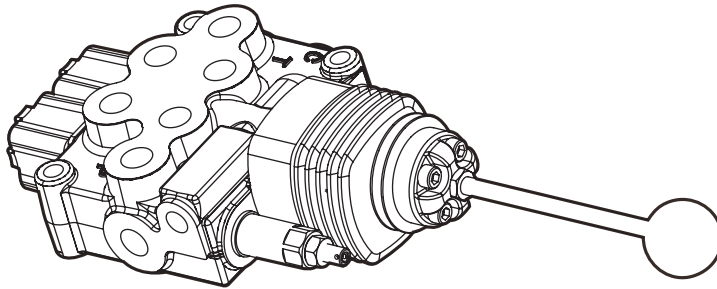
KV	Flexible Kabelverbindung (beinhaltet keine Kabel) Flexible cable connection (not include cable)
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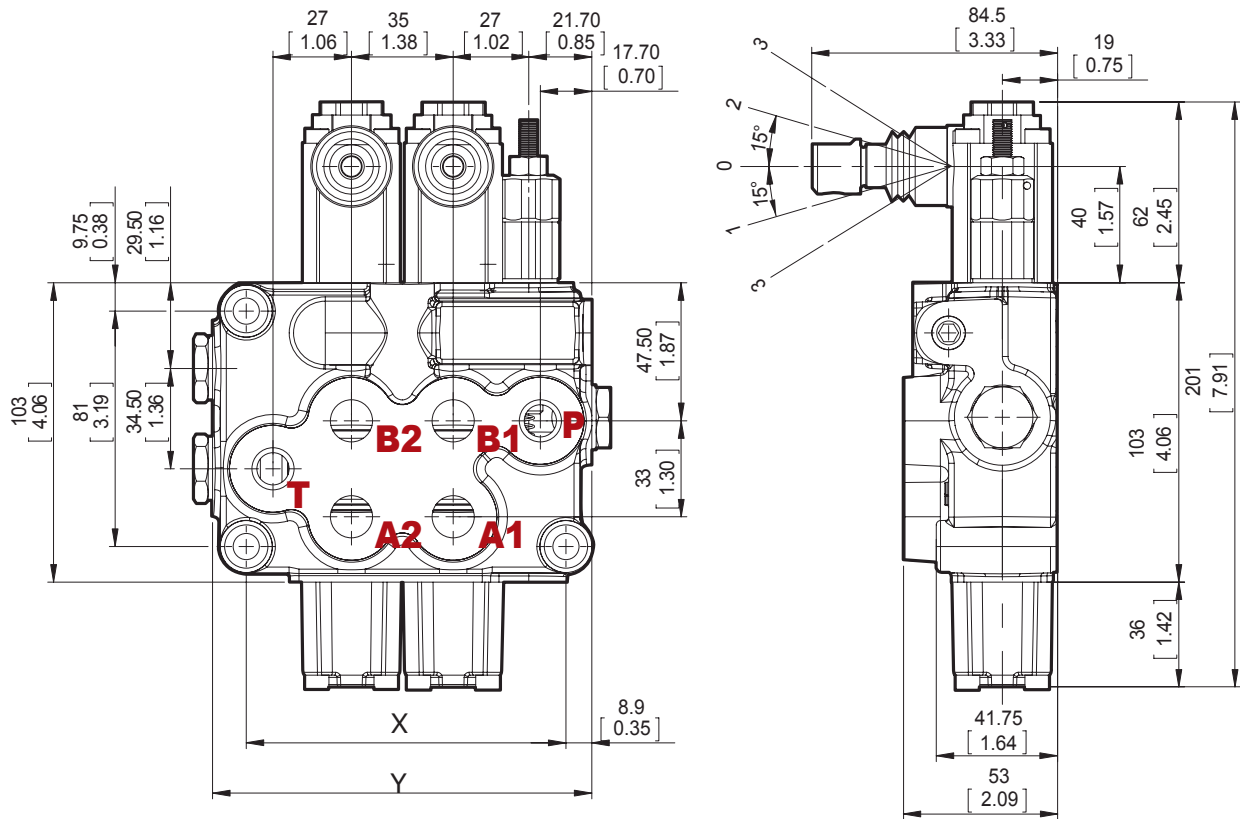
Positionierer A | A Side Spool Positioners

Typ Type	Beschreibung Description
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LCB	Joystick Joystick
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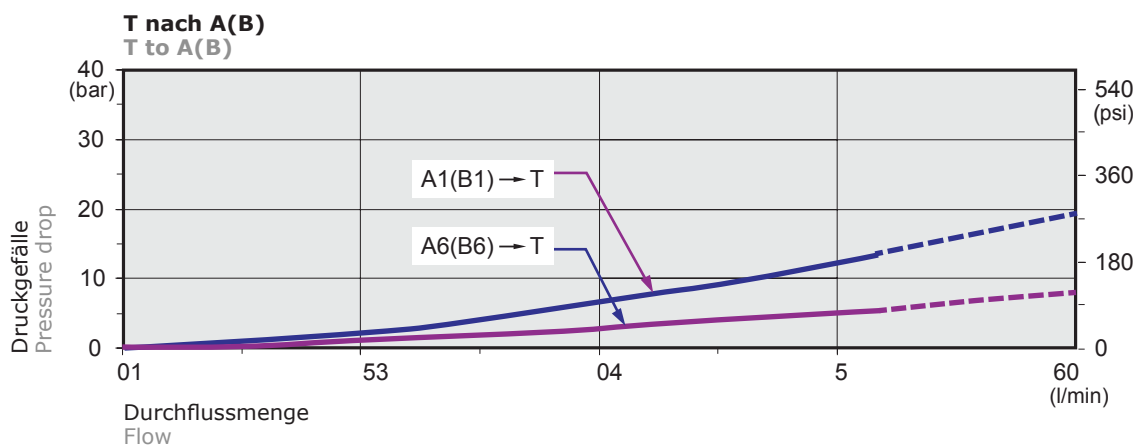
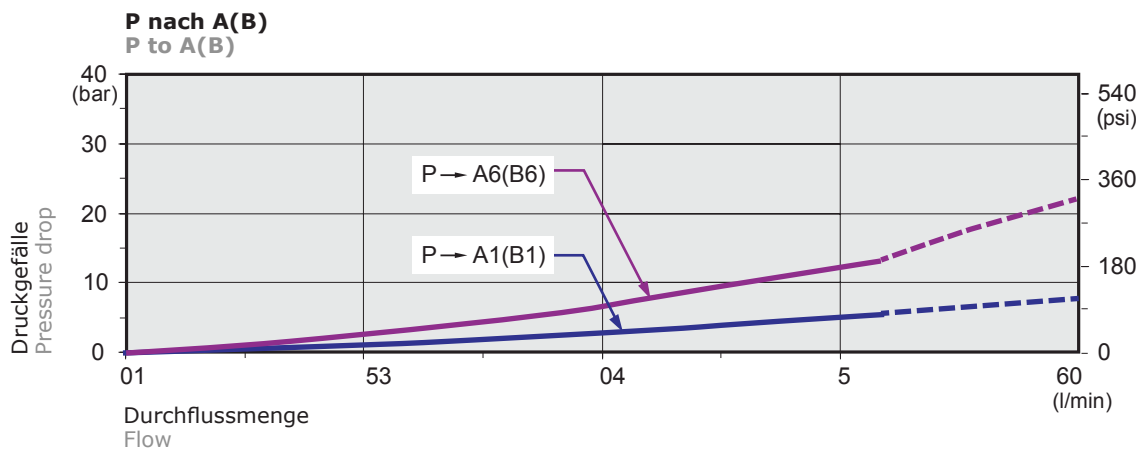
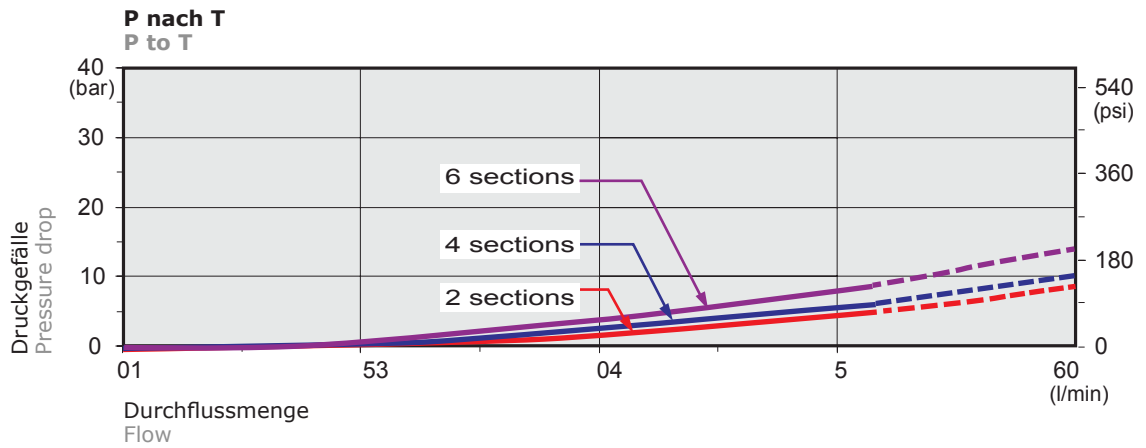
Einbaumaße MB-3 | Dimensions MB-3



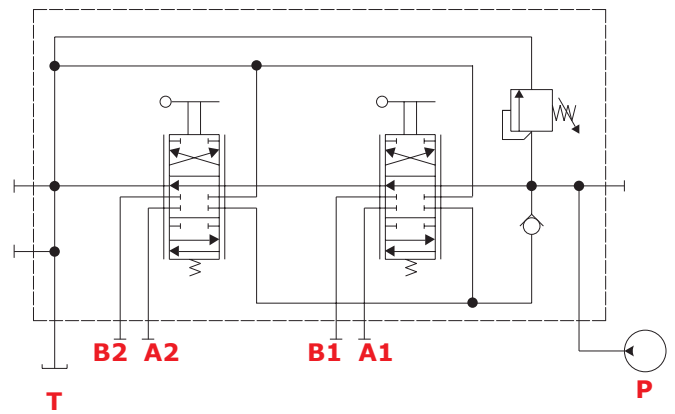
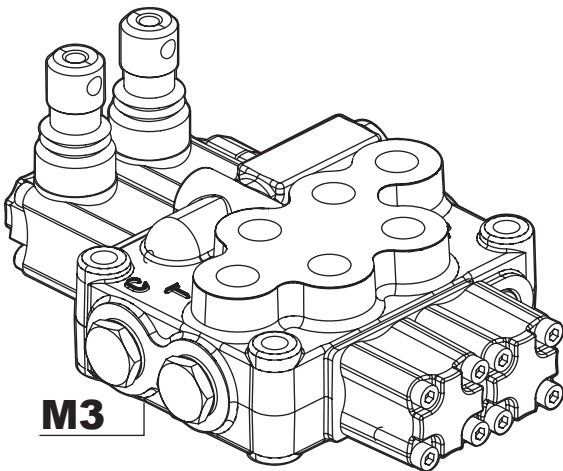
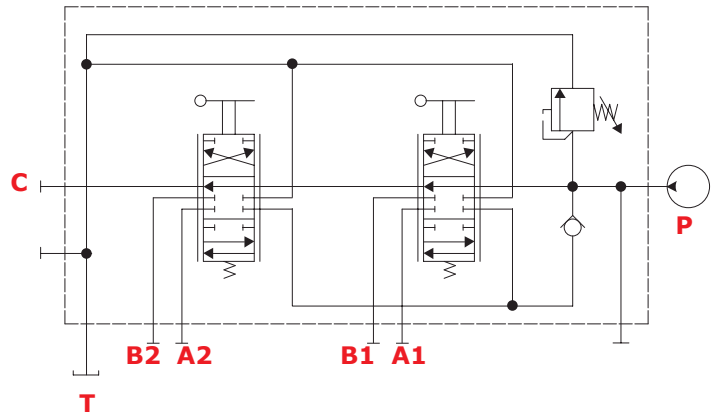
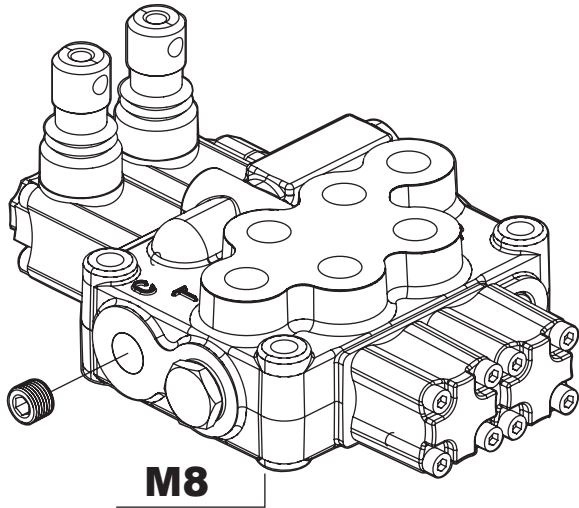
Typ Type	X		Y	
	mm	in	mm	in
MB-3/1S	93.5	3.68	73	2.87
MB-3/2S	130.5	5.14	110	4.33
MB-3/3S	465.5	6.52	147	5.79
MB-3/4S	202.5	7.97	184	7.24
MB-3/5S	239.5	9.43	221	8.7
MB-3/6S	276.5	10.89	258	10.16

Anschlüsse Ports	P	A / B	T
BSP (Standard)	G3/8	G3/8	G3/8
UN-UNF	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)
Metrisch Metric	M18x1.5	M18x1.5	M18x1.5

Leistungskurve MB-3 | Performance Curve Chart MB-3



Druckweiterführung MB-3 | Outlet MB-3



Bestellinformation MB-3 | Order Information MB-3

MB-3	/	1	-	2	/	3	4	5	/	6
Pos. 1	Grundkörper I Body kits									
1S	1 Sektion 1 Section									
2S	2 Sektion 2 Section									
3S	3 Sektion 3 Section									
4S	4 Sektion 4 Section									
5S	5 Sektion 5 Section									
6S	6 Sektion 6 Section									
Pos. 2	Einlassventil I Inlet relief									
3	63 bis 200 Bar, Standardeinstellung 120 Bar 63 to 200 Bar, standard setting 120 Bar									
4	160 bis 315 Bar, Standardeinstellung 220 Bar 160 to 315 Bar, standard setting 220 Bar									
VS	Verschlussstopfen Blanking port									
Pos. 3*	Schaltbilder I Spool options									
1	3 Positionen, doppeltwirkend, A-B geschlossen 3 Positions, double acting, A-B closed									
2	3 Positionen, doppeltwirkend, A-B-T verbunden 3 Positions, double acting, A-B open to T									
3	3 Positionen, einfachwirkend an A, A geschl., B verschl. 3 Positions, single action on A, A closed, B plugged									
5	3 Positionen, doppeltwirkend, B-T verbunden, A-P geschl. 3 Positions, double acting, B open to T, A-P closed									
6	3 Positionen, doppeltwirkend, A-T verbunden, B-P geschl. 3 Positions, double acting, B open to T, A-P closed									
7	3 Positionen, einfachwirkend an A, A-T verb., B geschl. 3 Positions, single acting on A, A open to T, B plugged									
9	3 Positionen, doppeltwirkend, A-B-P-T geschlossen 3 Positions, double acting, A-B-P-T closed									
10	3 Positionen, doppeltwirkend, A-B-T verb., P geschl. 3 Positions, double acting, A-B open to T, P closed									
Z41	4 Positionen, doppeltwirkend, Eilgang, Nullstellung in Pos. 1 4 Positions, double acting, regenerative circuit, Rest in Pos. 1									
Z42	4 Positionen, doppeltwirkend, Eilgang, Nullstellung in Pos. 0 4 Positions, double acting, regenerative circuit, Rest in Pos. 0									

Pos. 4*	Positionierer B I B Side spool positioners
6-1	3 Positionen, Rastung in Pos. 1-0-2 3 Positions, detent in pos. 1-0-2
6-2	2 Positionen, Rastung in Pos. 0-2 2 Positions, detent in pos. 0-2
6-3	2 Positionen, Rastung in Pos. 1-0 2 Positions, detent in pos. 1-0
8	3 Pos., Federzentrierung zur Neutralstellung 3 Pos., spring return to neutral
8-1	2 Pos., Federzentrierung zur Neutralstellung 2 Pos., spring return to neutral
8-2	2 Pos., Federzentrierung zur Neutralstellung 2 Pos., spring return to neutral
9-1	3 Positionen, Rastung in Pos. 1-2, Federzentr. 3 Positions, detent in pos. 1-2, spring center
9-2	3 Positionen, Rastung in Pos. 2, Federzentr. 3 Positions, detent in pos. 2, spring center
9-3	3 Positionen, Rastung in Pos. 1, Federzentr. 3 Positions, detent in pos. 1, spring center
Pos. 5*	Positionierer A I A Side spool positioners
L	Standardhebel Standard lever box
SL	ohne Handhebel Without any cover
SPL	Staubschutzplatte, ohne Handhebel With dust-proof plate
KV	Flexible Kabelverbindung Flexible cable connection
LCB	Joystick Joystick
Pos. 6	Anschluss I Port
G-3	G3/8 G3/8
SAE 8	3/4-16 UNF-2B 3/4-16 UNF-2B
M18	M18x1.5 M18x1.5

***Bei Bestellung ab 2 Sektionen bitte folgendes berücksichtigen:**

Wenn ein unterschiedlicher Aufbau der einzelnen Sektionen benötigt wird, muss Pos. 3 + Pos. 4 + Pos. 5 erneut angegeben werden!

***Please note for orders starting from 2 sections:**

If different sections needed, please indicate Pos. 3 + Pos.4 + Pos. 5 again!

