

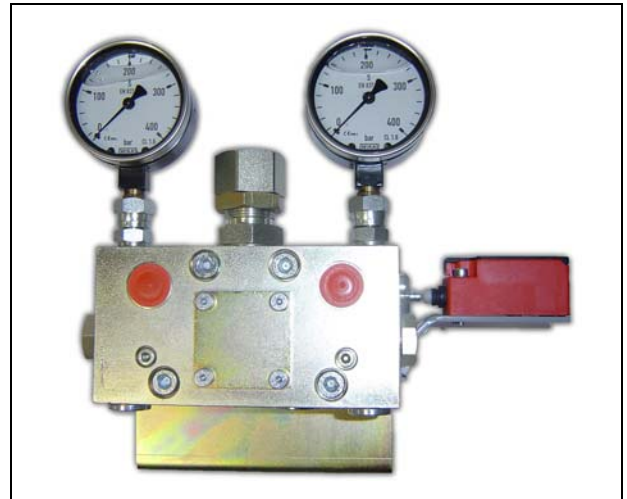
Product description
Change over
valve DR4

APPLICATION

The DR4 is an hydraulically operated directional control valve for use with dual-line or non-return systems.

PRODUCT CHARACTERISTICS

- Hydraulically controlled
- Working pressure adjustable from 40 to 350 bar
- Motion indicator with optional electrical monitoring



FUNCTION

The reversing valve's switching pressure depends on the spring pressure, which can be set for installation. After the activation of all dual-line metering valves in the lubricating system, pressure is built up against a guide piston, which in turn acts on a rocker arm. If the force acting on the rocker arm is equal to the spring force, it moves into the other end position. This directs a control current towards one end of the piston, which determines the direction of flow. The piston moves, thereby freeing at the other end the passage to the tank. Accordingly the pump's delivery flow is directed into the opposite line and the pressure is taken off the originally pressurised line back to the tank.

An electric switch, which is activated by means of a pin attached to the control piston in the direction of flow, is mounted on the reversing valve. When the switch is activated by the pin, either to open or close it, a signal is sent to the control to either stop the pump or start a switching interval.

The diagram and the details on pages 4 clarify the mode of operation. The following mode of operation is available for use in dual-line lubrication systems.

On the DR4 valve (non-return system), the two pipelines do not return to the reversing valve but the reversal pressure is sufficient for the operation of all the measuring valves.

A. VALVE TYPE

Code

DR4

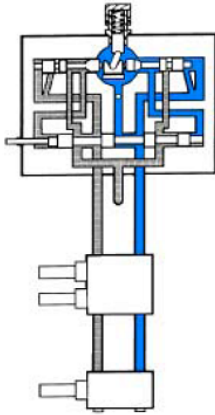
B. FUNCTION

Non-return (adjusting of 200 bar)

02

Non-return (adjusting of 150 bar)

03



C. INSPECTION

Code

Stage A

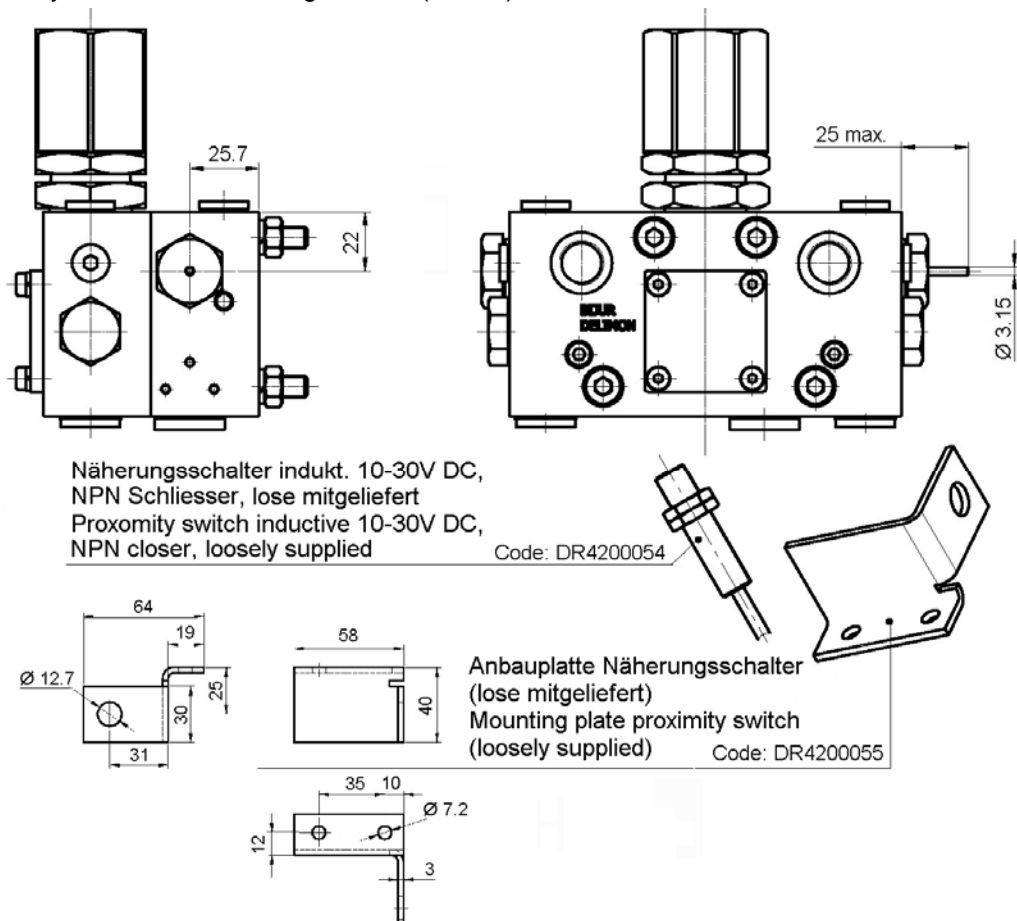
A

D. MONITORING

Code

1 x Proximity switch with mounting bracket (Denco)

02

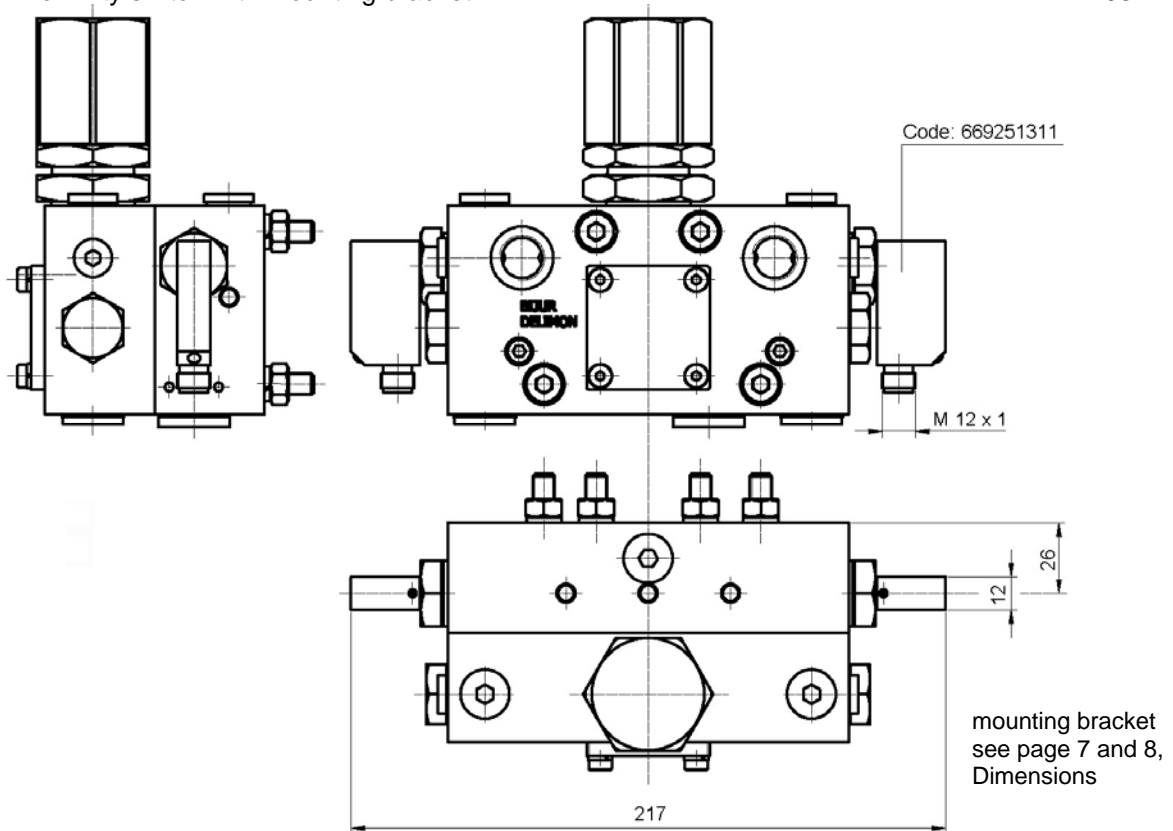


D. MONITORING (continued)

Code

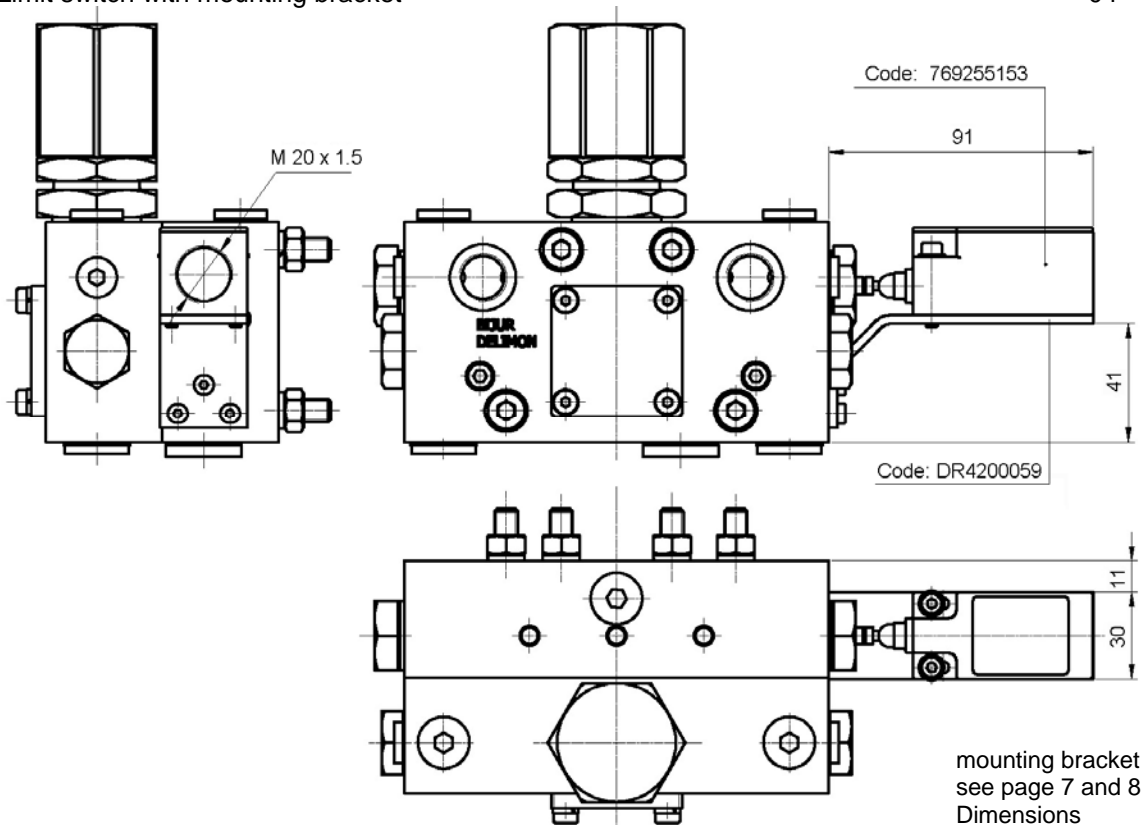
2 x Proximity switch with mounting bracket

03



1 x Limit switch with mounting bracket

04

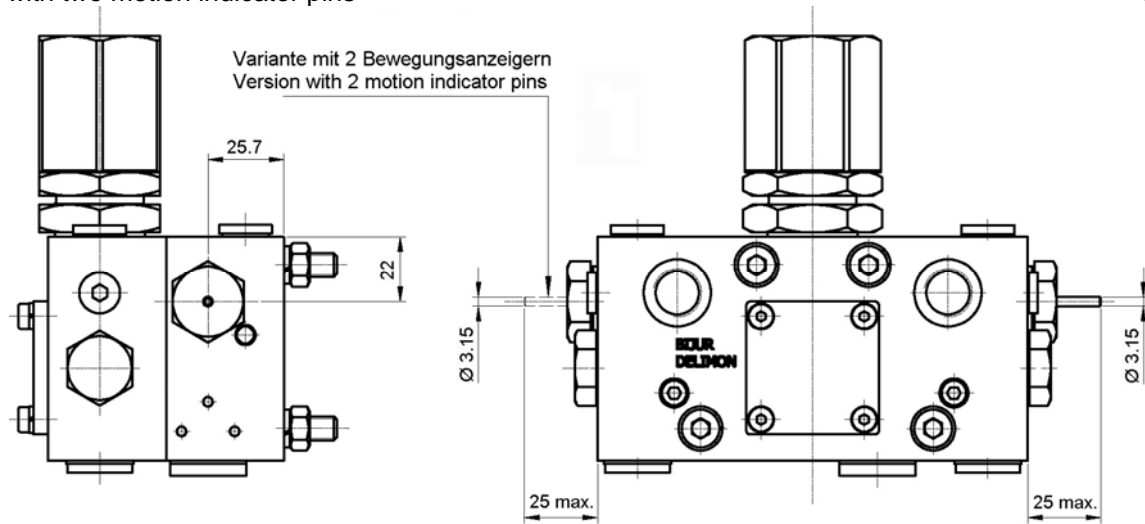


D. MONITORING (continued)

Code

with one motion indicator pin
with two motion indicator pins

05
06

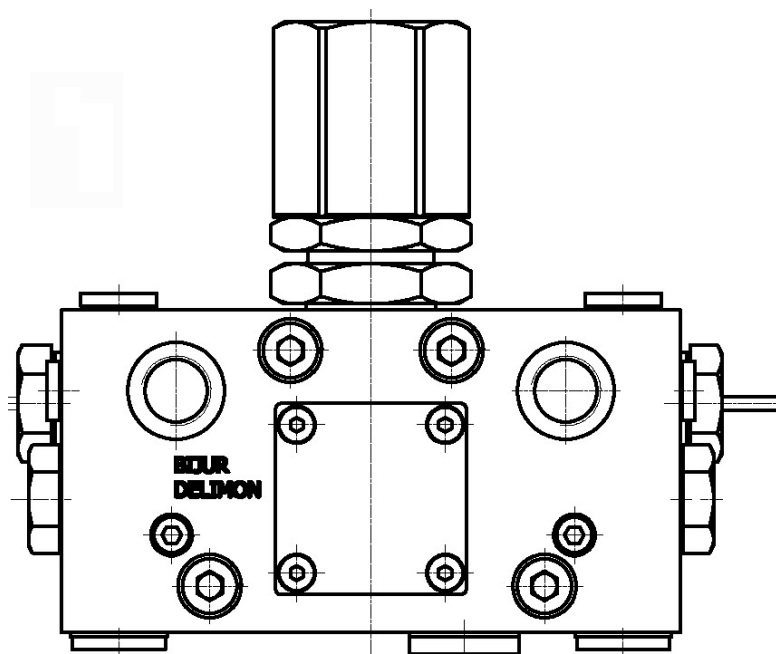


E. ACCESSORIES

Code

without

00

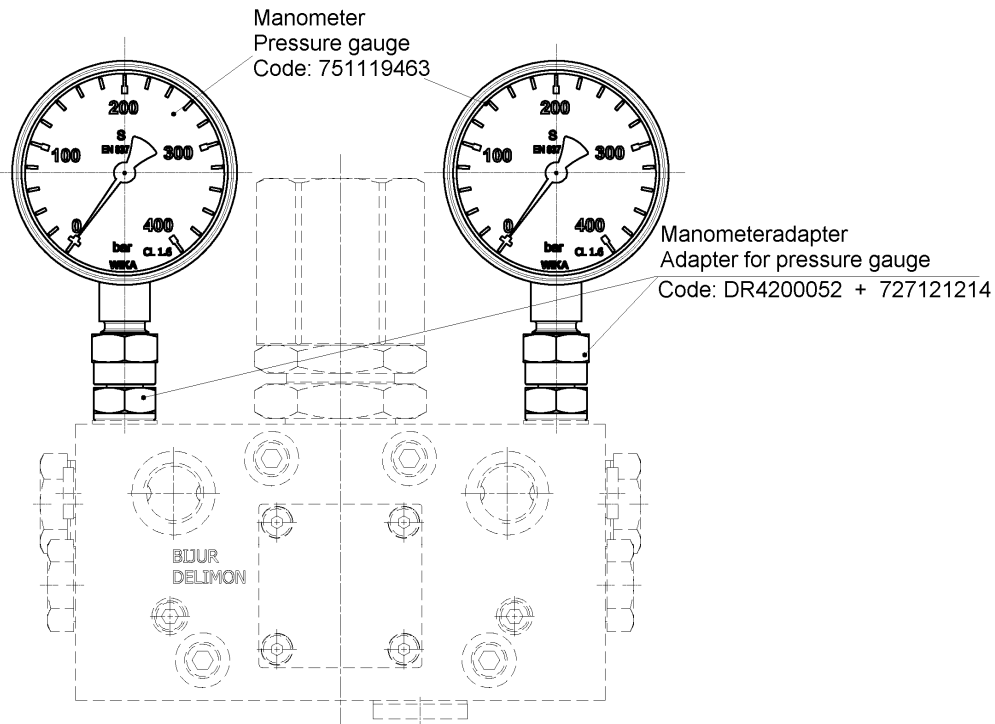


E. ACCESSORIES (continued)

Code

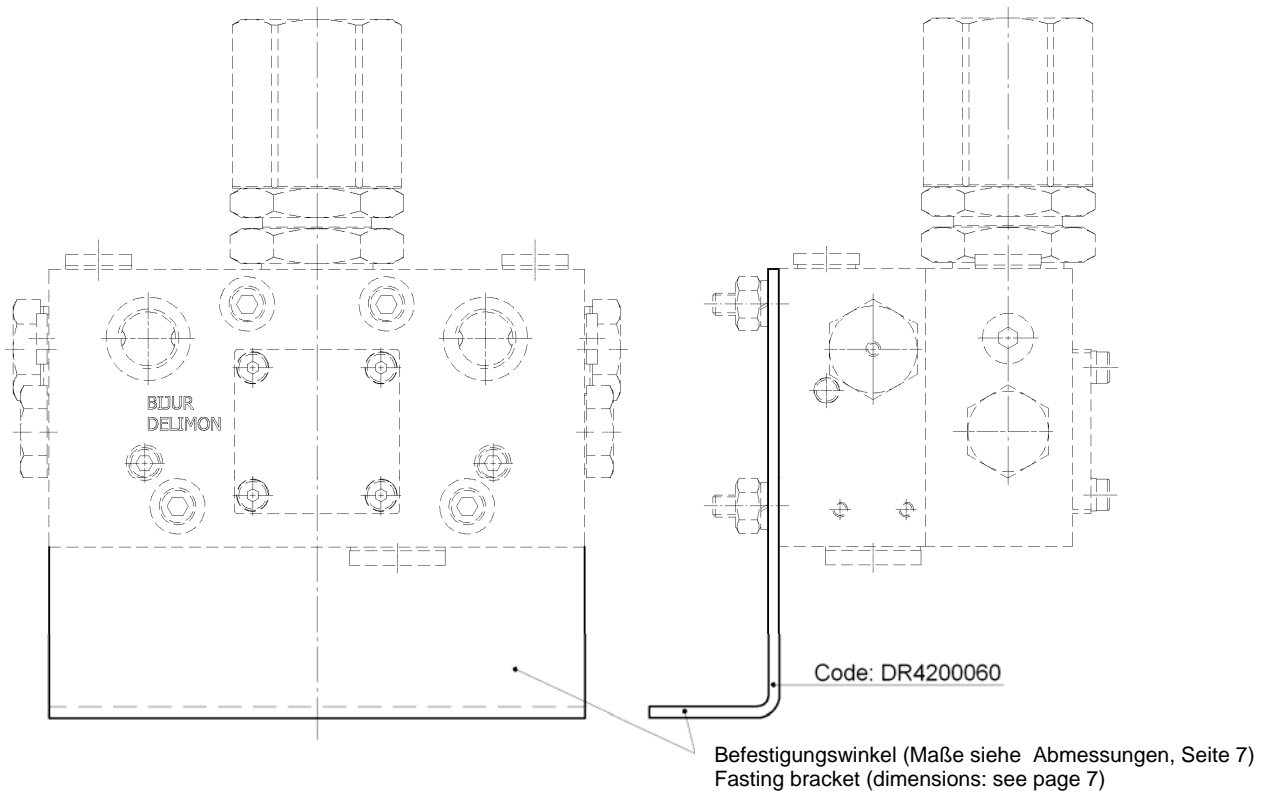
2 pressure gauges with adaptors

01



Mounting bracket (for fixing onto the basic frame)

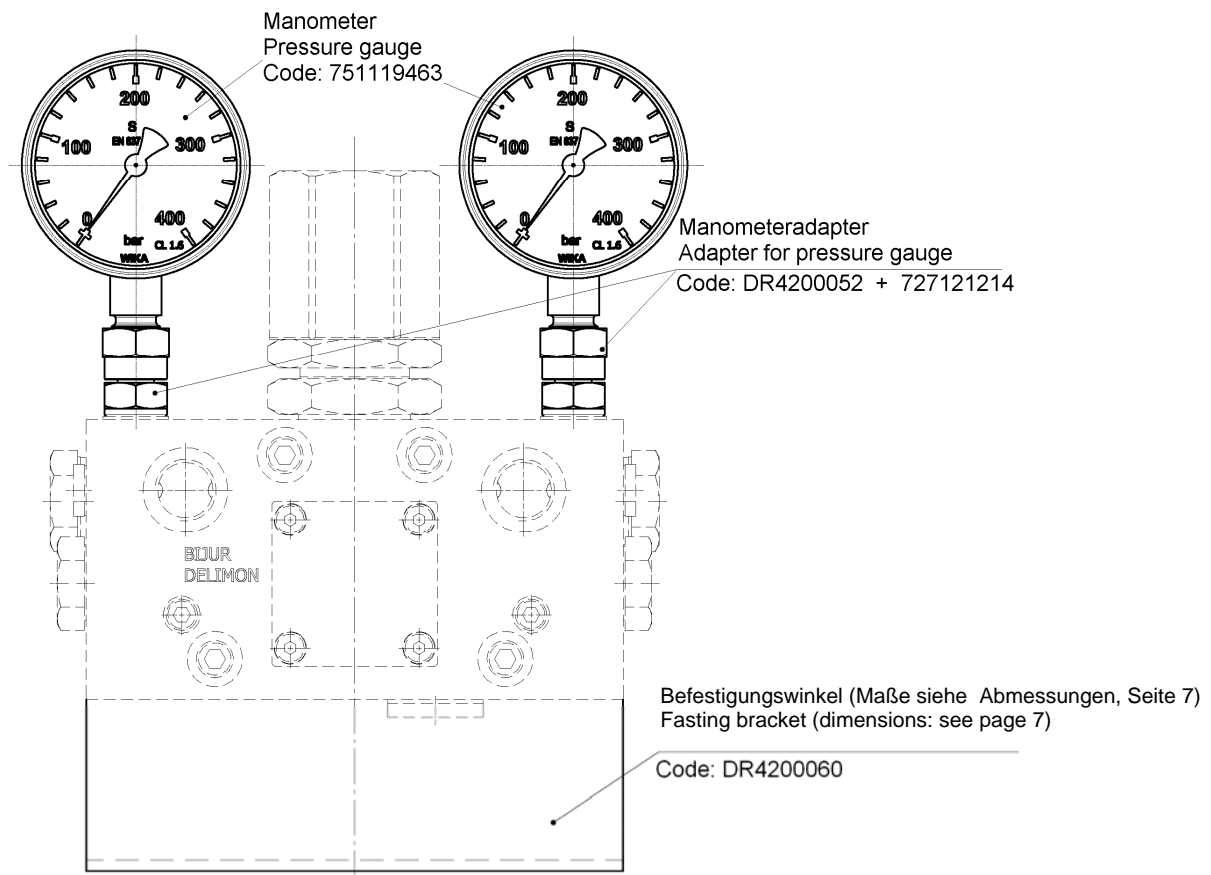
02



E. ACCESSORIES (continued)

Code

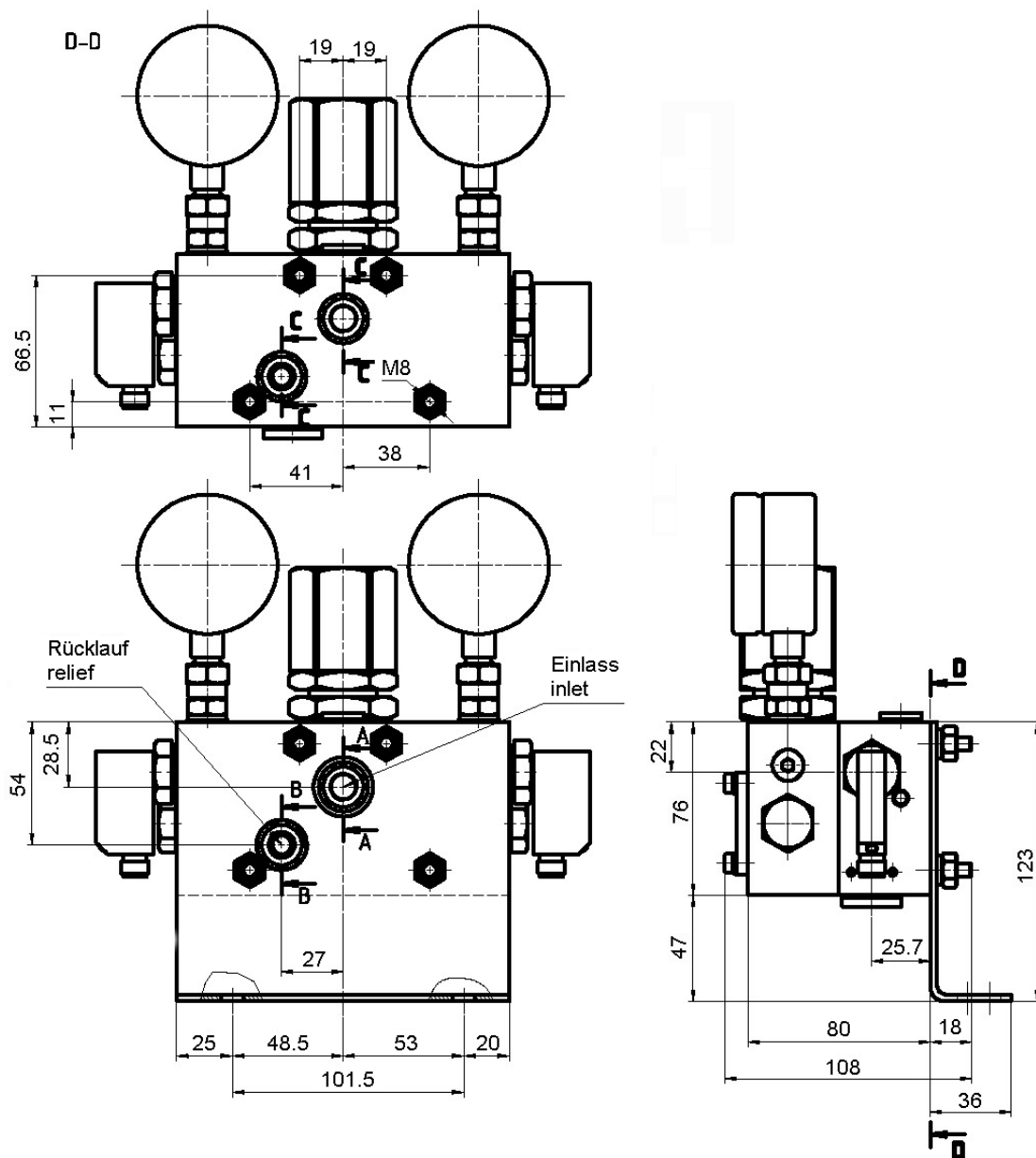
2 x pressure gauges (with adaptor) and mounting brackets (for fixing onto the basic frame) 03



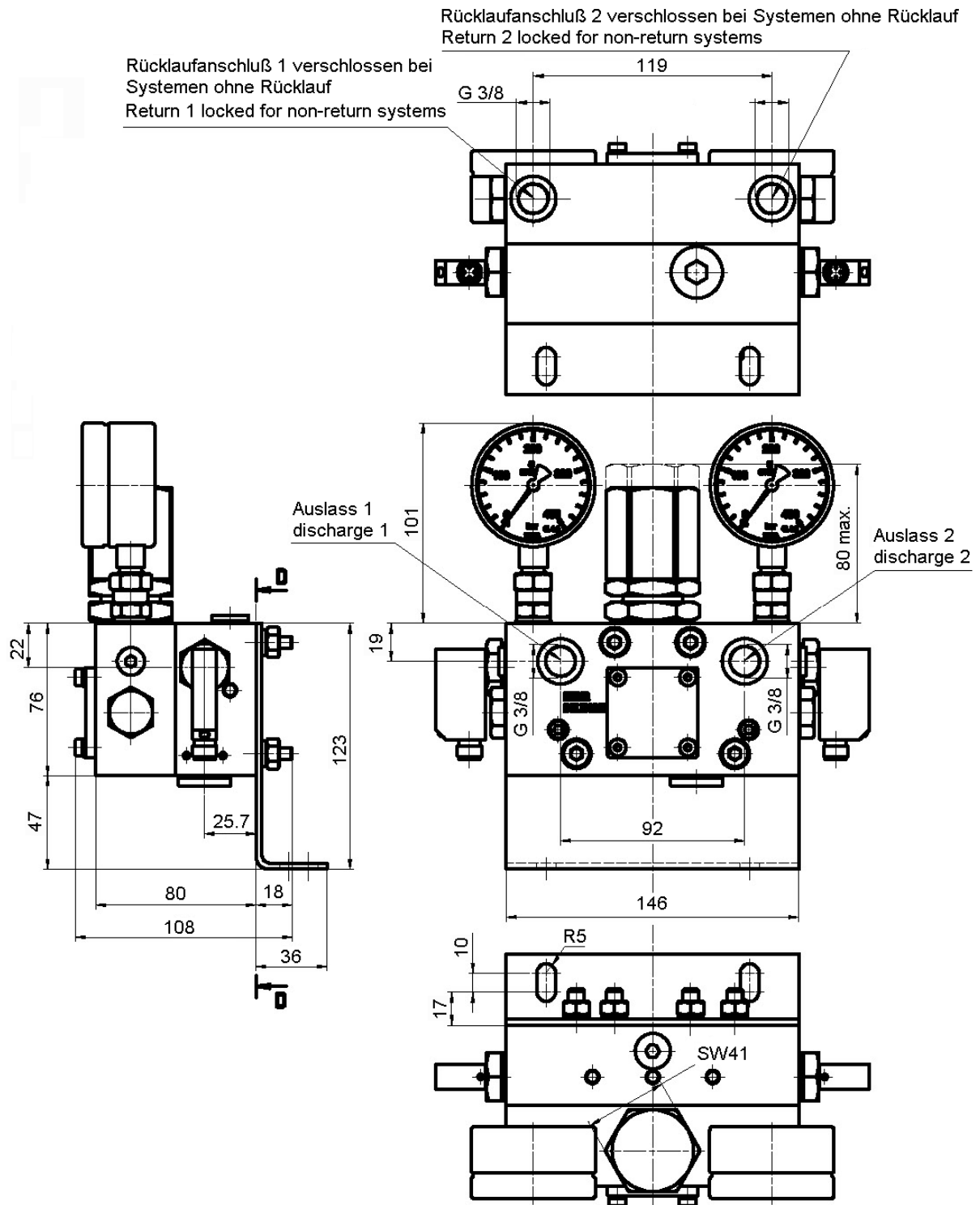
SPECIFICATION

Pressure adjustment range: 40 ... 350 bar
 Maximum Flow rate: 650 ccm/minute
 Temperature range: - 20° C to + 100° C
 Useable lubricants:
 Oil or grease max. NLGI class 2
 Weight: 7.0 kg
 Material:
 Metal parts (body etc.) Steel
 Seals Viton

DIMENSIONS



DIMENSIONS (continued)



EXAMPLE OF ORDER

		Code									
		D	R	4	0	2	A	0	4	0	1
Valve type DR4	Code: DR4	—	—	—	—	—	—	—	—	—	—
Function Non-return (adjusted to 200 bar)	Code: 02	—	—	—	—	—	—	—	—	—	—
Revision Stage A	Code: A	—	—	—	—	—	—	—	—	—	—
Monitoring 1x limit switch with mounting bracket	Code: 04	—	—	—	—	—	—	—	—	—	—
Accessories 2 pressure gauge with adaptors	Code: 01	—	—	—	—	—	—	—	—	—	—

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*Für reibungslose Bewegung
For smooth motion*