Rexroth
Bosch Group

Accumulator charging valve

RE 66191/08.04 1/4
Replaces: 07.03

Type LT 06


F 89 005

Component series 3X
Maximum operating pressure 200 bar
Flow 70 L/min

Overview of contents

Features

- In-line installation
- Ease of installation
- Accumulator pressure-related pump load during the charging process

Function

Accumulator charging valves or pressure shut-off valves assume the function of keeping a pressure level in an accumulator circuit within certain limit values (cut-in pressure, cut-out pressure). The switching pressure differential is approx. 18 % of the cut-off pressure.

Note: If downstream consumers (N) generate a higher pressure than the cut-off pressure of the accumulator charging valve, the pressure of the accumulator circuit is raised to this level.

The valve basically consists of a pilot control with pressure adjustment element (1), pressure compensator (2) and check valve (3).

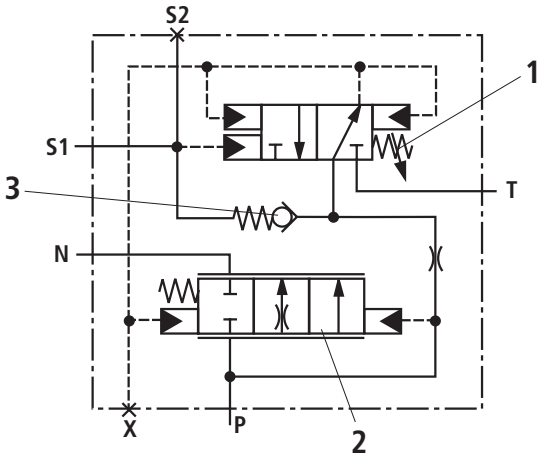
Changing the pump flow over from accumulator charging to neutral circulation

During the charging process, the pump feeds oil via the check valve (3) into the accumulator circuit. To this end, the pressure is directed via the pilot line and pilot control to the load signal side of the pressure compensator (2). This pressure compensator throttles the pump flow until the pressure that builds up in the accumulator circuit overcomes the spring force of the pressure adjustment element (1). The pilot control element reconnects the load signal line of the pressure compensator (2) from S1 to T. The pressure compensator (2) then re-directs the pump flow from P to N and the check valve (3) closes. The charging process is completed and the pump flow flows with a low Δp through the charging valve.

Changing the pump flow over from neutral circulation to accumulator charging

When the pressure in the accumulator circuit falls below the lower switching point (cut-in point), P is connected to the load signal chamber of the pressure compensator (2) and the pump flow is directed again into the accumulator circuit.

Symbol



Technical data (for applications outside these parameters, please consult us!)

Max. System pressure		bar	200
Max. Operating pressure in the accumulator circuit		bar	200
Flow	from P to Sp	L/min	approx. 17 (standard)
	from P to N	L/min	max. 70
Hydraulic fluid			Mineral oil (HL, HLP) to DIN 51524
Hydraulic fluid temperature range		°C	–20 to +80
Viscosity range		mm^2/s	2.8 to 380
Max. permissible degree of contamination of the hydraulic fluid, cleanliness class to ISO 4406 (c)			Class 20/18/15
Weight		kg	2.0

Installation notes

– Port T must be separately connected to the tank.

Ordering code

LT	06– A	06–3X/		/02	M	*

Further details in clear text

M = NBR seals, suitable for mineral oil (HL, HLP) to DIN 51524

Connection thread

02 = Metric thread

Accumulator charging flow

B18 = Approx. 6 L/min

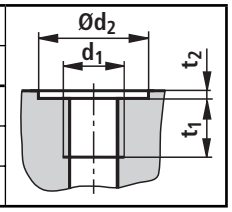
B40 = (Standard) approx. 17 L/min

Component series 30 to 39 **= 3X**
(30 to 39: unchanged installation and connection dimensions)

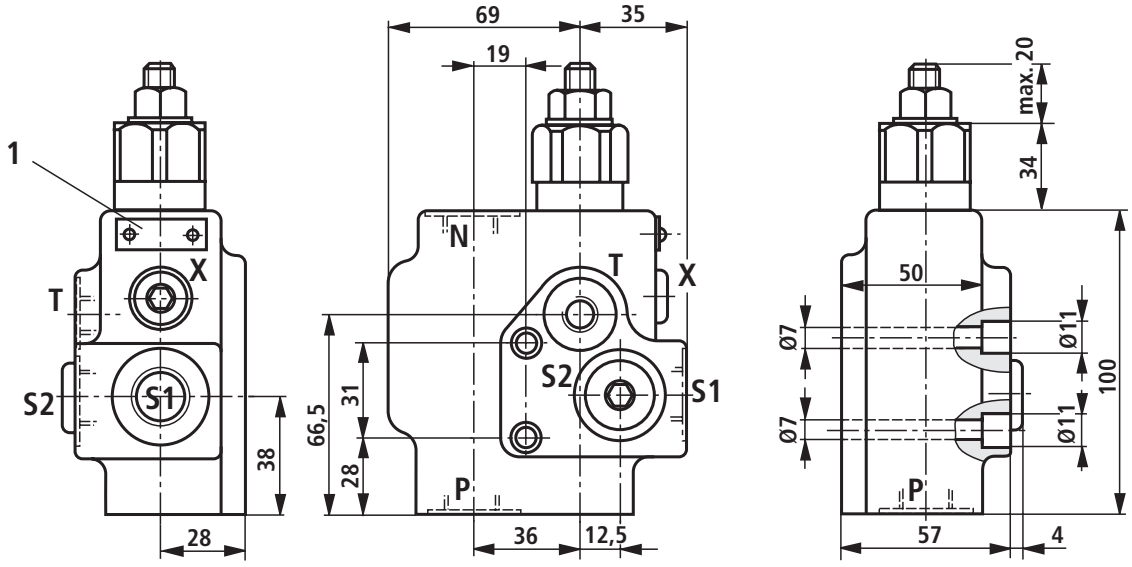
Pressure stage of the accumulator circuit

Pressure stage	100 bar	= 100
Pressure stage	**150 bar (standard)**	**= 150**
Pressure stasge	200 bar	= 200

Port	02			
	d_1	$Ød_2$	t_1	t_2
P, N	M18x1,5	32	12	1
S1, S2	M18x1,5	32	12	1
T, X	M12x1,5	19	12	1



Unit dimensions (nominal dimensions in mm)



1 Nameplate

Notes

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