

BY-PASS



GEMMA By-Pass is a relief valve for the GMM pump providing remote switching between idling and operation.

By-Pass is used in installations where the power take off is not disengaged during transport. These are usually found on vehicles fitted with hydraulic equipment that needs to be manoeuvred while on the move, for example, road maintenance vehicles, concrete mixers, refuse collection trucks, etc. The By-Pass valve is controlled from the driver's cab and makes it possible to provide oil to the vehicle's hydraulic equipment when necessary. The valve opens a link between the feed line and suction line directly by the pump, which is then offloaded. Only a small amount of oil circulates via the existing system to cool the pump. When a closed-centre valve or a valve with a high circulation pressure is used, a separate cooling line is made as set out in the instructions on the rear of this sheet.

Other advantages of the GEMMA By-Pass valve

- Can also be operated manually, which makes control possible even in the event of a power failure. Automatic emergency function opens the valve with a power failure
- Compact design in steel for direct mounting on the pump's connection cover for small installation dimensions
- 24 V equipment is equipped with an integrated, two me-tre long power cable, which conforms to the protection class ADR. (International Carriage of Dangerous Goods by Road)
- Can be regulated at 1-40 MPa working pressure in the hydraulic system
- Symmetrical design supports installation of the magnetic valve in different directions, and use on both right and left-hand rotating pumps
- GEMMA By-Pass is the most versatile by-pass valve avaible on the market



BY-PASS			GMM 012-0	GMM 090	GMM 084-108	GMM 130
Weight		kg	2.4	2.4	3.0	3.0
Max working pressure		MPa	40	40	40	40
			012-034 040-	064 090	084-108	130
Max pump speed		rpm	3000 250	2000	2000	2000
Magnet voltage		V	12/24	12 / 24	12 / 24	12 / 24
Current		А	1.88/0.52	1.88/0.52	1.88/0.52	1.88/0.52
Power		W	22.5 / 12.5	22.5 / 12.5	22.5 / 12.5	22.5 / 12.5
Protection class contact			IP 66 - / ADR			
Function			Normally op	en Normally open	Normally open	Normally open
Dimensions	mm	A B C D E F G	45 110 36 G ¾ 100 25 31	45 110 36 G ¾ 100 25 31	41 127 42 G 1 116 28 31	41 127 42 G 1 116 28 31

Subject to design alteration

