GYDAD INTERNATIONAL



Multi-Station Gauge Isolator MS / MSL



MS 2



MSL 2



MS 4



MS 6



MS 5



MS 7

1. DESCRIPTION

1.1. GENERAL

Multi-station gauge isolators are designed to check different pressures in a hydraulic system.

There are models with a built-in pressure gauge for different pressure ranges or models to which a separate pressure gauge can be connected.

If it is necessary for the system pressure to be retained during the measuring process, the leakage-free model must be used.

1.2. MULTI-STATION GAUGE ISOLATORS TYPE MS 2

with built-in pressure gauge, are designed to check up to 6 different pressures in a hydraulic system. The gauge is built directly into the selector knob, therefore eliminating the need for a separate gauge. The pressure can be read when the arrow on the rotary knob is pointing to one of the six measuring positions. By turning the knob each of the six measuring positions can be selected. Between each measuring position there is a zero position to relieve the gauge pressure. A built-in detent locks any selected position. Different gauges are available for different pressure ranges. The gauges are filled with a special damping fluid to prolong the gauge life.

1.3. MULTI-STATION GAUGE ISOLATORS TYPE MSL 2

with built-in pressure gauge, fulfil the same function as Type MS 2, however the measuring points are shut off leakage-free. The MSL 2 is suitable for hydraulic systems where the pressure must be retained and therefore a leakage-free gauge isolator must be used.

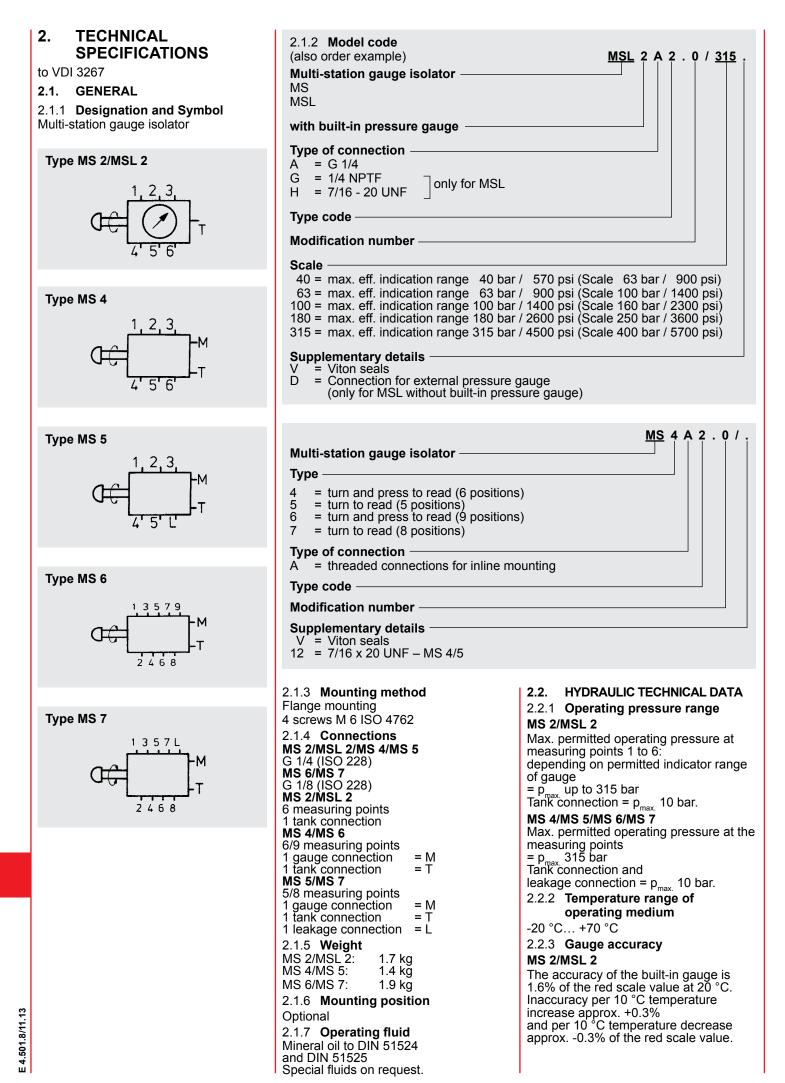
1.4. MULTI-STATION GAUGE ISOLATORS TYPE MS 4 / MS 6

without pressure gauge, are designed to check up to 6 or 9 different pressures in a hydraulic system. The gauge has to be mounted separately and must be connected to port M of the gauge isolator by means of a pipe or hose. The pressure can be read when the arrow on the rotary knob is turned to one of the measuring positions and pushed against a spring force in an axial direction. When the knob is released it returns to its original position and the gauge is connected to the tank port. A built-in detent locks any of the selected positions.

1.5. MULTI-STATION GAUGE ISOLATORS TYPE MS 5 / MS 7

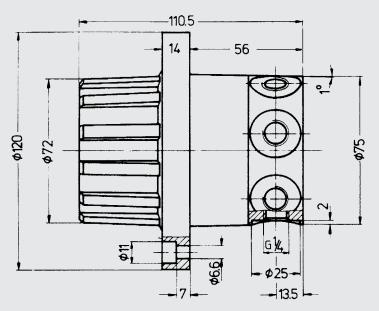
without pressure gauge, are designed to check up to 5 or 8 different pressures in a hydraulic system. The gauge has to be mounted separately and must be connected to port M of the gauge isolator by means of a pipe or hose. The pressure can be read when the arrow on the rotary knob is pointing to one of the measuring positions. By turning the rotary knob each of the measuring positions can be selected. An additional 0 position allows pressure from the gauge to be released to the tank. A built-in detent locks any of the selected positions.

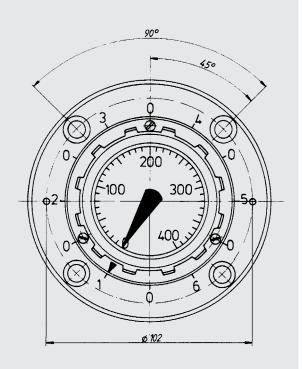
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3. DIMENSIONS

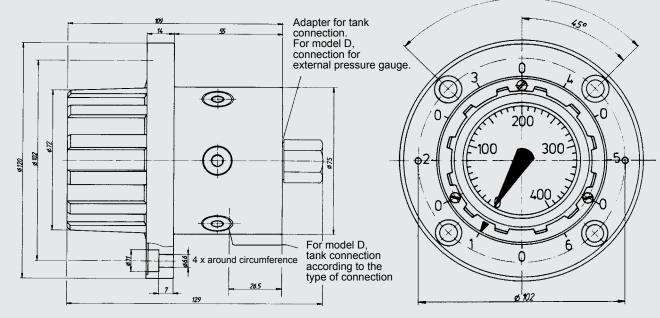
TYPE MS 2





90°

TYP MSL 2



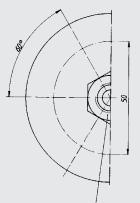
Type of connection: A/G/H



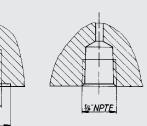
G 1/4

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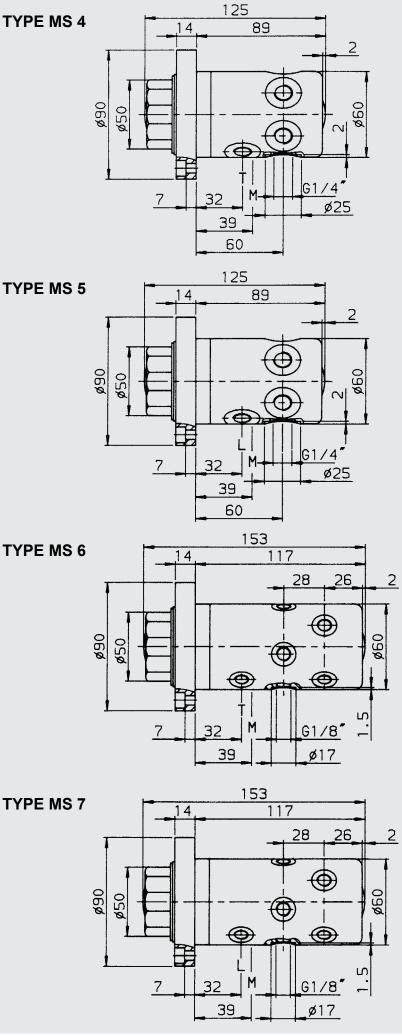
Adapter _________ for tank connection. For model D, connection for external pressure gauge

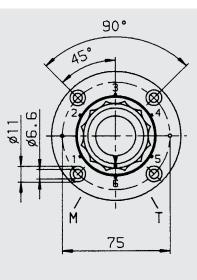


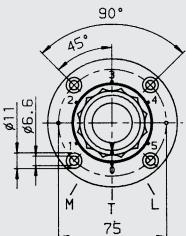
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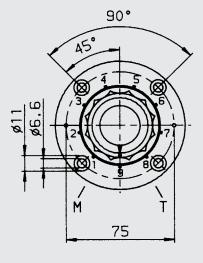


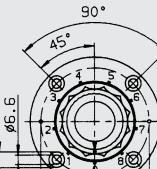
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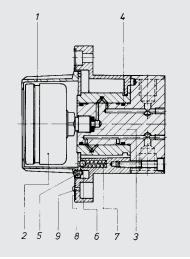
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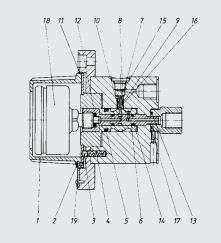


Item Qty. Description 1 1 Rotary knob 2 1 Gauge 3 1 Seal ring 4 2 Quad rings 5 3 Slotted head screws M3 x 6 DIN 964 - 5.8 6 6 1 Ball 5 mm DIN 5401 Class III 7 7 1 Spring 8 1 Scale plate 9 2 Rivets 2 x 6 DIN 1476 2			
2 1 Gauge 3 1 Seal ring 4 2 Quad rings 5 3 Slotted head screws M3 x 6 DIN 964 - 5.8 M3 x 6 DIN 964 - 5.8 6 1 Ball 5 mm DIN 5401 Class III DIN 5401 Class III 7 1 Spring 8 1 Scale plate 9 2 Rivets	Item	Qty.	Description
3 1 Seal ring 4 2 Quad rings 5 3 Slotted head screws M3 x 6 DIN 964 - 5.8 M3 x 6 DIN 964 - 5.8 6 1 Ball 5 mm DIN 5401 Class III DIN 5401 Class III 7 1 Spring 8 1 Scale plate 9 2 Rivets	1	1	Rotary knob
4 2 Quad rings 5 3 Slotted head screws M3 x 6 DIN 964 - 5.8 6 1 Ball 5 mm DIN 5401 Class III 7 1 Spring 8 1 Scale plate 9 2 Rivets	2	1	Gauge
5 3 Slotted head screws M3 x 6 DIN 964 - 5.8 6 1 Ball 5 mm DIN 5401 Class III 7 1 Spring 8 1 Scale plate 9 2 Rivets	3	1	Seal ring
M3 x 6 DIN 964 - 5.8 6 1 Ball 5 mm DIN 5401 Class III 7 1 Spring 8 1 Scale plate 9 2 Rivets	4	2	Quad rings
DIN 5401 Class III71819282	5	3	
81Scale plate92Rivets	6	1	
9 2 Rivets	7	1	Spring
	8	1	Scale plate
	9	2	

ORDER EXAMPLE

Type MS 2 A 2 . 0 / 315 . 1 off seal ring, item 3 (When ordering, always quote the whole model code of the unit)

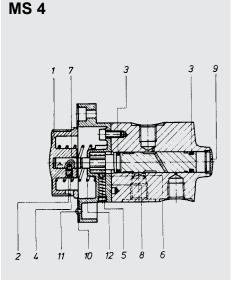




Item	Qty.	Description
1	<u></u> 1	Rotary knob
2	3	Slotted head screws M 3 x 5 DIN 964
3	1	Ball 5 mm DIN 5401 Class III
4	1	Spring
5	1	O-ring 15 x 2.5
6	2	O-ring 6 x 2
7	6	O-ring 8.5 x 1.5
8	6	Locking screws G 1/8 DIN 908
9	6	O-ring 2 x 1.6
10	6	Seals
11	1	Scale plate
12	1	Seal ring
13	1	O-ring 9.25 x 1.78
14	2	Support rings
15	6	Springs
16	6	Support rings
17	1	Grub screw M 4 x 10 DIN 914
18	1	Pressure gauge
19	2	Rivets 2 x 6 DIN 1476

ORDER EXAMPLE

Type MSL 2 A 2 . 0 / 315 . 1 off seal ring, item 12 (When ordering, always quote the whole model code of the unit)



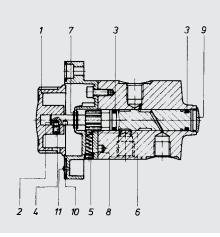
SPARE PARTS

Item	Qty.	Description
1	1	Rotary knob
2	1	Disc
3	2	Quad rings
4	1	Grub screw M 5 x 8 DIN 417
5	1	Grub screw M 6 x 4 DIN 557
6	1	Ball 5 mm DIN 5401 Class III
7	1	Retainer 8 x 0.8 DIN 471
8	1	Spring
9	1	End cap
10	1	Scale plate
11	2	Rivets 2 x 6 DIN 1476
12	1	Spring

ORDER EXAMPLE

Type MS 4 A 2 . 0 / . 1 off quad ring item 3 (When ordering, always quote the whole model code of the unit)

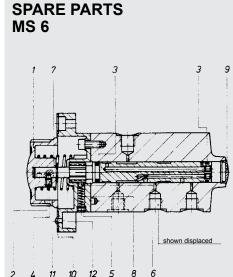
SPARE PARTS **MS 5**



Item	Qty.	Description
1	1	Rotary knob
2	1	Disc
3	2	Quad rings
4	1	Grub screw M 5 x 8 DIN 417
5	1	Grub screw M 6 x 4 DIN 557
6	1	Ball 5 mm DIN 5401 Class III
7	2	Retainers 8 x 0.8 DIN 471
8	1	Spring
9	1	End cap
10	1	Scale plate
11	2	Rivets 2 x 6 DIN 1476

ORDER EXAMPLE

Type MS 5 A 2 . 0 / . 1 off quad ring, item 3 (When ordering, always quote the whole model code of the unit)

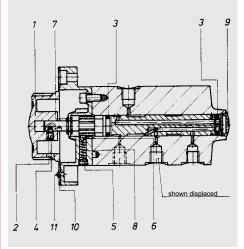


Item	Qty.	Description
1	1	Rotary knob
2	1	Disc
3	2	Quad rings
4	1	Grub screw M 5 x 8 DIN 417
5	1	Grub screw M 6 x 4 DIN 557
6	1	Ball 5 mm DIN 5401 Class III
7	1	Retainer 8 x 0.8 DIN 471
8	1	Spring
9	1	End cap
10	1	Scale plate
11	2	Rivets 2 x 6 DIN 1476
12	1	Spring

ORDER EXAMPLE

Type MS 6A2.0/. 1 off quad ring, item 3 (when ordering, always quote the whole model code of the unit)

SPARE PARTS **MS 7**



Item	Qty.	Description
1	1	Rotary knob
2	1	Disc
3	2	Quad rings
4	1	Grub screw M 5 x 8 DIN 417
5	1	Grub screw M 6 x 4 DIN 557
6	1	Ball 5 mm DIN 5401 Class III
7	2	Retainers 8 x 0.8 DIN 471
8	1	Spring
9	1	End cap
10	1	Scale plate
11	2	Rivets 2 x 6 DIN 1476

ORDER EXAMPLE

Type MS 7 A 2 . 0 / . 1 off quad ring item 3 (When ordering, always quote the whole model code of the unit)

MOUNTING INSTRUCTIONS

Taking into account the operating forces, it is recommended that measuring points with pressures of more than 100 b are arranged symmetrically. Ports required should be plugged. Required oil cleanliness class for N NAS 1638-9 ISO DIS 4406-18/14 with pressures of more than 100 bar are arranged symmetrically. Ports not

Required oil cleanliness class for MSL:

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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