

# Gauge valve

## Body number

0

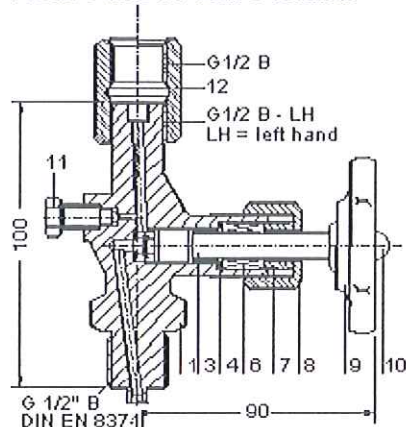
**Features:**  
 ND max. 4  
 PN max. 400  
 T max. 120 °  
 C

Gauge valves according to DIN 16270 with vent screw, but without test connection.

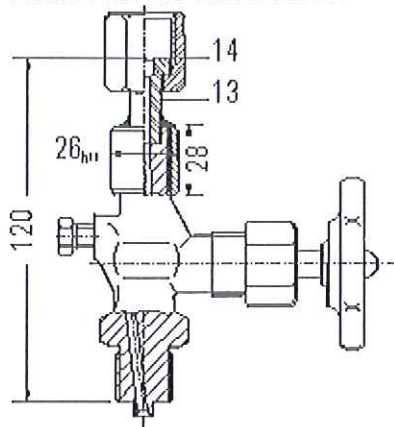


Gauge Valves > M0

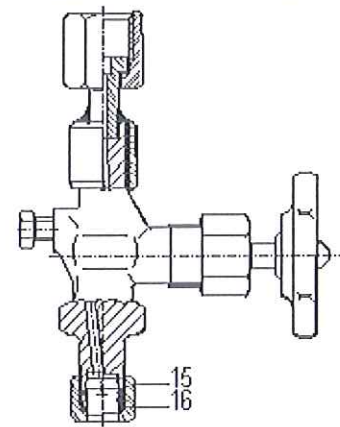
Picture a: DIN 16270 form a



Picture b: DIN 16270 form b



Picture c: DIN 16270 form b



Our gauge-valves are manufactured according to DIN regulations. Your guarantee for workmanship at a high standard.

## Parts list:

Part no.	Designation	Material		
		1	2	6
1	Body, forged	1020	316Ti	brass
3	Spindle roll sealed	430F	316Ti	430F
3.1	Cone, rolled into, movable	SS	316Ti	SS
4	Taper ring	1035	316Ti	brass
6	Packing	PTFE <sup>1)</sup>		
7	Gland	1213	316Ti	brass
8	Union nut	1213	316Ti	brass
9	Handwheel	moulded plastic <sup>2)</sup>		
10	Nut	galvanized steel	316Ti	brass
11	Vent screw	430F	316Ti	430F
12 form a	Adjusting nut	1213	303	brass
13 form b	Nut (DIN 16284)	A570Gr33,36	316Ti	brass
14	Nut (DIN 16284)	1213	303	brass
15	Nut (DIN 3870)	1213	316Ti	brass
16	Cutting ring (DIN 3861)	steel DIN 3859	316Ti	brass

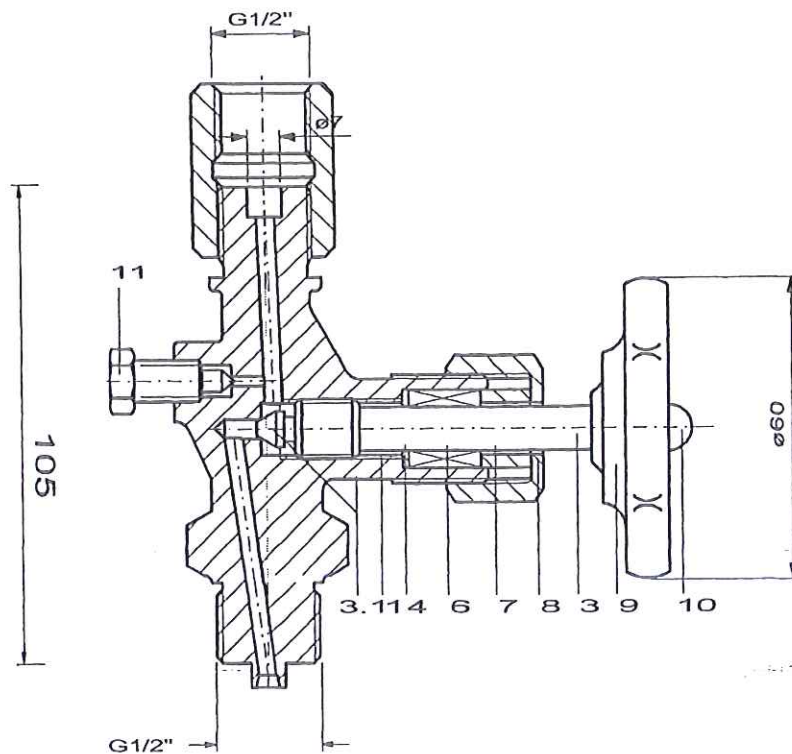
<sup>1)</sup>On request: Graphite-packing or free of oil and grease: Oxygen packing max. PN 250  
<sup>2)</sup>On request: steel sheet or tommy bar

**Order number:**

<b>M</b>	<b>0</b>				
Type	Body number	Material code	Special characters code	Inlet-code	Outlet-code
		<b>1</b> Carbon steel 1020 <b>2</b> Stainless steel 316Ti <b>6</b> Brass	<b>E</b> Venting <b>G</b> Bar (instead of handwheel) <b>H</b> Handwheel of steel sheet <b>K</b> Lock nut		

**Order numbers for DIN gauge valves:**

Designation		Material	Valve number according to DIN	Order number
<b>Picture a</b> Gauge valve DIN 16270 form a		1020	DIN16270-A-10St	M01EGM12SP12
		316Ti	DIN16270-A-20St	M02EGM12SP12
<b>Picture b</b> Gauge valve DIN 16270 form b		1020	DIN16270-B-10St	M01EGM12LG12
		316Ti	DIN16270-B-20St	M02EGM12LG12
<b>Picture c</b> Gauge valve DIN 16270 form b with inlet cutting ring SV for 12 or 14 mm tubes (DIN 2353)	<b>SV 12</b>	1020	DIN16270-B-10St-AS12	M01ESV12LG12
		316Ti	DIN16270-B-20St-AS12	M02ESV12LG12
	<b>SV 14</b>	1020	DIN16270-B-10St-AS14	M01ESV14LG12
		316Ti	DIN16270-B-20St-AS14	M02ESV14LG12
<b>similar Picture c</b> Gauge valve DIN 16270 form b with inlet welding nipple (DIN 2353)	<b>SK 12</b>	1020	DIN16270-B-10St-AS12	M01ESK12LG12
		316Ti	DIN16270-B-20St-AS12	M02ESK12LG12
	<b>SK 14</b>	1020	DIN16270-B-10St-AS14	M01ESK14LG12
		316Ti	DIN16270-B-20St-AS14	M02ESK14LG12



öl- und fettfrei für O<sub>2</sub>  
free of oil and grease

Nr. no.	Bezeichnung designation	Wst. material	Nr. no.	Bezeichnung designation	Wst. material
1	Körper, geschmiedet body, forged	1.4571 316Ti	8	Überwurfmutter union nut	1.4571 316Ti
3	Spindel stem	1.4571 316Ti	9	Handrad handwheel	Preßstoff plastic
3.1	Kegel eingerollt b.wgl. non rotating plug	1.4571 316Ti	10	Hutmutter cap nut	1.4301 304H
4	Grundring lapper ring	1.4571 316Ti	11	Entlüftungsschraube vent screw	1.4571 316Ti
6	Packung packing	Graphit			
7	Stoffbuchse gland	1.4571 316Ti			

Maßstab/scale: 1:1.5    Bearb./prod.: Be    gepr./freig./checked: FL    Datum/dated: 05.02.1996

Artikelnr. / article no. : M0 2E GM12 SP12

Kunden Nr. / customer's no. :

Manometerventil

DN 4 PN 250

Gauge valve

Material : 1.4571

Christian Bollin Armaturenfabrik GmbH



# Christian Bollin Armaturenfabrik GmbH

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## INSTALLATION / SERVICE / ASSEMBLY INSTRUCTIONS

for valves with inside spindle thread and integral seat

BOLLIN globe valves are maintenance-free as far as possible and allow a simple operation.

- All BOLLIN valves have a positive metal-to-metal seal and a manual actuation; whereby closing will be effected by rotating clockwise and opening by rotating anticlockwise.

### Starting:

- Rust, sand and similar impurities into the product - or by the first rinse before starting - can cause leakages if they collect in the seat area. The spindle is therefore fully to open to allow a proper rinsing.
- For storage reasons, the rough-pressed packing can set and its closeness can decrease. By starting, this packing is to adapt.

### Adaptation:

- If a valve is going to be leaky in the packing, the ring nut (part 8) is to screw down slightly with the help of an open-end adjustable wrench clockwise and the spindle (part 3) is to move 2-3 times. In most cases, the packing does immediately seal again.

### Change of packing:

- If the adaptation of the packing is not showing a good result, you will have to change the packing.

### Procedure:

1. Turn line system to be unpressurized, open valve.
2. Screw off cap nut (part 10); take off handwheel (part 9).

3. Turn ring nut (part 8) to the top, remove stuffing box (part 7) at the side.
4. Unscrew spindle (part 3, 3.1) to the top; package (part 6) will be pushed out
5. Clean packing area and spindle.
6. Inset spindle (greased in the screw thread region) again.
7. Put in creased package and rings (part 5).
8. Put in new stuffing box.
9. Screw down ring nut (part 8).
10. Put on handwheel (part 9); screw on cap nut (part 10).

### Exchange of spindle and cone:

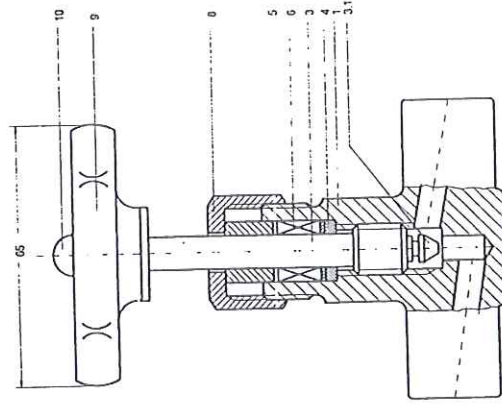
- spindle with rolled up cone (part 3, 3.1) is exchangeable.

### Procedure:

Same procedure as "change of packing", points 1. - 4.  
If spindle screwed out, proof seat. If seat is defect, valve is useless.  
Re-mounting of the spindle (see "change of packing", points 5. - 10.).

### Annotations

For valves free of oil and grease use admitted lubricant and package



Wartungsanl-englisch-Sitz angedreht-wie A3-A5-A10-Manovent

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## INSTALLATION / SERVICE / ASSEMBLY INSTRUCTIONS

for valves and manifolds with screwed in head

BOLLIN-globe valves are maintenance-free as far as possible and allow a simple operation.

- All BOLLIN valves have a positive metal-to-metal seal and a manual actuation; whereby closing will be effected by rotating clockwise and opening by rotating anticlockwise.

### Starting:

- Rust, sand and similar impurities into the product - or by the first rinse before starting - can cause leakages if they collect in the seat area. The spindle is therefore fully to open to allow a proper rinsing.
- For storage reasons, the rough-pressed packing can set and its closeness can decrease. By starting, this packing is to adapt.

### Adaptation:

- If a valve is going to be leaky in the packing, the ring nut (part 8) is to screw down slightly with the help of an open-end adjustable wrench clockwise and the spindle (part 3) is to move 2-3 times. In most cases, the packing does immediately seal again.

### Change of packing:

- If the adaptation of the packing is not showing a good result, you will have to change the packing.

### Procedure:

1. Turn line system to be unpressurized, open valve.
2. Screw off cap nut (part 10); take off handwheel (part 9).
3. Screw out complete head piece (part 4).
4. Unscrew spindle (part 3) to the bottom.
5. Turn ring nut (part 8) to the top; remove stuffing box (part 7).
6. Push out packing (part 6) from the bottom and clean package area.
7. Inset spindle (greased in the screw thread region) from the bottom and screw it completely to the top.
8. Use new greasy packing with rings (part 5).
9. Put in stuffing box (part 7).

10. Screw down ring nut (part 8)
11. Change sealing ring (part 13) in any case and grease it gently.
12. Grease thread of the top and screw it in. Screw down with 170 Nm.
13. Put on handwheel (part 9); screw on cap nut (part 10).

### Exchange of spindle and/or seat:

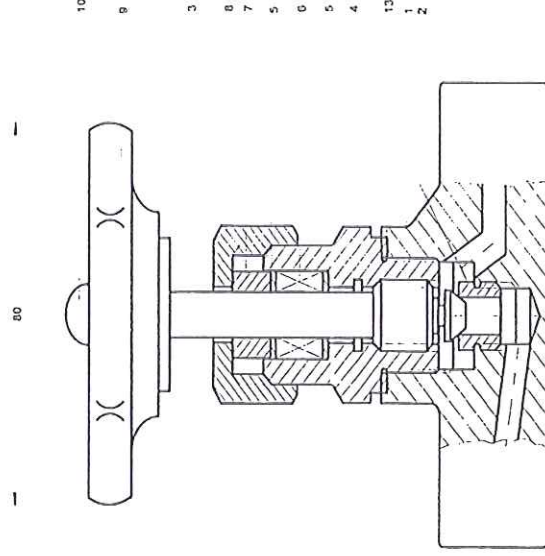
- seat and cone (rolled up in spindle) are exchangeable.

### Procedure:

1. Same procedure as "change of packing", points 1. - 3.
2. Unscrew seat (part 2) with the help of a spanner.
3. Screw in and down new seat (greasy in screw thread region).
4. If necessary, exchange cone with spindle (part 3) (see "change of packing", point 4.).
5. Re-mounting of the spindle (see "change of packing", points 9. and 10.).
6. Re-mounting of the head piece (see "change of packing", points 11. - 13.).

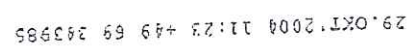
### Annotation:

For valves free of oil and grease use admitted lubricant and package.



Wartungsan-englisch-Kopfdruckventil-wie A7-A11-A17-Blocke





## Bestellnummer/order number

M	O	2	E	GM12	SP12
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Bezeichnung  
typeKörpernummer  
body numberCode für Werkstoff  
material codeSonderzeichencode  
special characters codeCode für Eingang  
inlet codeCode für Ausgang  
outlet codeM = Manometerabsper Ventil  
gauge valve

## Code Werkstoffe / materials

- 1 Wst.Mat.: 1.0460 Stahl C22.8 / carbon steel 1020  
 2 Wst.Mat.: 1.4571 EdelstahlX6CrNiMoTi17122  
 stainless steel 316Ti  
 6 Wst.Mat.: Messing MS 58 / brass

Alle Werkstoffe können nach DIN EN 10204 mit einem Zertifikat  
 (3.18) geliefert werden. / All materials can be delivered with  
 certificate DIN EN 10204 -3.18.

## Code Sonderzeichen / special characters

- E Entlüftung / venting  
 G Griff (anstelle des Handrades)-Knebelform  
 bar (instead of handwheel)  
 H Handrad aus Stahlblech / handwheel of steel sheet  
 K Kontermutter / lock nut

Erläuterungen Seite: A26 / Explanation page: A26

Aufgrund der Anschlüsse,  
 z.B. Flansche, können  
 Kürzungen in der Bestell-  
 nummer notwendig sein.

Based on the connections  
 e.g. flange, reductions of  
 the order no. could be  
 necessary.

z. Hd. H. Koch

Optionale Anschlussvarianten für das Absperrventil M0  
optional connection variations for the shut-off valve M0

## • Ein- und/oder Ausgang / in- and / or outlet

Manometeranschlüsse gauge connections		G				M
		1/8	1/4	3/8	1/2	M20x1,5
Außengewinde / male threads	GM; MA	•	•	•	•	•
lose Mutter / union nut	LG; LM	•	•	•	•	•
Spannmuffe / adjusting nut	SP	•	•	•	•	•

Rohr-Anschlüsse tube connections		Rohr Außendurchmesser / O.D.					
		6	8	10	12	14	15
Schneid- + Klemmring- verschraubung cutting ring + twin ferrule compression fitting	SV (L)	•	•	•	•	•	•
	SV (S)	•	•	•	•	•	•
	KL	•	•	•	•	•	•
Schweißkegel, -nippel welding ends (tail pipes)	SK	•	•	•	•	•	•
	SN	•	•	•	•	•	•

Optionale Anschlussvarianten zu den Ventiltypen  
optional connection variations for shut-off valves

SV	Schneidringverschraubung DIN 2353 cutting ring connection according to DIN 2353 s. Seite A14 / page A14
KL	Klemmringverschraubung twin ferrule compression fitting s. Seite A15 / page A15
SK SN	Schweißkegel, -nippel welding nipple (tail pipe) s. Seite A16 / page A16
GM MM	Zylindrischer G- und M-Gewinde für Manometer parallel G- and M-thread for gauges s. Seite M7 / page M7
LG LM	Lose Mutter mit G- oder M- Gewinde für Manometer union nut with G- or M-thread for gauges s. Seite M8 / page M8
SP	G- oder M-Linksgewinde mit Spannmuffe G- or M-LH-thread with adjusting nut s. Seite M7 / page M7

Andere Anschlüsse  
 sind möglich. Die ent-  
 sprechenden Anschlus-  
 codes finden Sie im  
 Kapitel Anschlüsse. Die  
 Anschlussmöglichkeiten  
 des Körpers M0 sind  
 identisch mit denen des  
 Körpers A3.  
 Other in- or outlets are  
 possible. You will find  
 the connection codes in  
 the chapter connections.  
 The connecting  
 possibilities of the  
 casing M0 are identical  
 to those of A3.

## Bestellnummern für DIN-Ausführungen / order numbers for DIN gauge valves

Bezeichnung designation	Werkstoffe materials	Bezeichnung nach DIN valve number according to DIN	Bestellnummer order number	
Bild A / picture a Manometerabsper Ventil DIN 16270 Form A gauge valve DIN 16270 form A	C22.8 / 1020	DIN 16270-A-10St	M01EGM12SP12	
	1.4571 / 316Ti	DIN 16270-A-20St	M02EGM12SP12	
Bild B / picture b Manometerabsper Ventil DIN 16270 Form B gauge valve DIN 16270 form B	C22.8 / 1020	DIN 16270-B-10St	M01EGM12LG12	
	1.4571 / 316Ti	DIN 16270-B-20St	M02EGM12LG12	
Bild C / picture c Manometerabsper Ventil DIN 16270 Form B mit Eingang Schneidringverschraubung SV für 12 od. 14 mm Rohr (DIN 2353) gauge valve DIN 16270 form B with inlet cutting ring SV for 12 or 14 mm tubes (DIN 2353)	SV 12	C22.8 / 1020	DIN 16270-B-10St-AS12	M01ESV12LG12
		1.4571 / 316Ti	DIN 16270-B-20St-AS12	M02ESV12LG12
	SV 14	C22.8 / 1020	DIN 16270-B-10St-AS14	M01ESV14LG12
		1.4571 / 316Ti	DIN 16270-B-20St-AS14	M02ESV14LG12
ähnlich Bild C / similar picture c Manometerabsper Ventil DIN 16270 Form B mit Eingang Schweißkugelbuchse (DIN 2353) gauge valve DIN 16270 form B with inlet welding nipple (DIN 2353)	SK 12	C22.8 / 1020	DIN 16270-B-10St-AS12	M01ESK12LG12
		1.4571 / 316Ti	DIN 16270-B-20St-AS12	twin ferrule compression
	SK 14	C22.8 / 1020	DIN 16270-B-10St-AS14	M01ESK14LG12
		1.4571 / 316Ti	DIN 16270-B-20St-AS14	M02ESK14LG12

Manometerabsper Ventil