

Valve Blocks



For direct flanging to pressure and differential pressure transmitters

Drop-forging housing

Replaceable valve seat

Valve stem with back-flow seal and crimped valve cone

Application

- The valve blocks are designed for liquid and gaseous media. For the measurement of vapour, the version with separately welded purge valves is recommended.
- Valve blocks with 2 valves are used to cut off the pressure line and permit purging and testing of the pressure transmitter.
- Valve blocks with 3 valves are used to cut off the differential pressure line and zero check of the pressure or connected differential pressure transmitter.
- Valve blocks with 5 valves enable purging of the differential pressure lines and zero check of the pressure lines for the media up to 250 °C.

Technical data

The valve blocks are designed for direct flange-mounting to the pressure or differential pressure transmitter. Connection dimensions acc. to DIN 19213.

Features: Internal stem thread¹⁾, drop-forging housing, replaceable valve seat, valve stem with back-flow seal and crimped valve cone.

Scope of delivery²⁾:

- Valve block with box wrench (handwheels of plastic) plus
- 2 (1) viton round gaskets $\varnothing 18 \times 3 \text{ mm}^{5)}$,
- 4 (2) socket-head hex screws 7/16" 20 UNF strength class 12.9, mechanically galvanised and hexagon key 3/8".

Mounting and welding tasks are not part of the basic delivery. Acceptance test certificate acc. to DIN 50049-3.1 B can be obtained via Code No.

A tapered PTFE gasket is required for reliable sealing of natural gas (Code No. 303).

Material ¹⁾	Mat.-No.	Mat.-No.	Mat.-No.
Housing	1.0460	1.4571 ⁴⁾	1.0460
Head	1.0501	1.4571	1.0501
Stem	1.4104	1.4571	1.4104
Cone	1.4122 V	1.4571	1.4122 V
Seat	1.4571	1.4571	1.4571
Packing	PTFE	PTFE	PTFE
Packed gland	St	1.4571	St
Cap nut	St	1.4571	St
Non-soldered pipe connection	St	1.4571	St
Catalog No. 14931-	0839910 0839913 0839915 0839918 0839944	0839911 0839912 ⁴⁾ 0839914 0839919	0839941 0839942 0839943 0839945

Table 1: Material composition of valve blocks

Material ³⁾	Mat.-No.	Mat.-No.
Housing	1.5415	1.5415
Head	1.0501	1.7709
Stem	1.4104	1.4021
Cone	1.4122V	1.4122V
Seat	1.4021	1.4021
Packing	pure graphite	pure graphite
Packed gland	St	1.0501
Cap nut	1.0501	
Coupling	1.5415	1.5415
Nipple	1.5415	1.5415
Stem nut		2.0550
Lock nut		1.0501
Catalog No. 14931-	0839943	0839944 0839945

Table 2: Material composition of purge valves

1) Apart from version 14931-0839944/0839945.

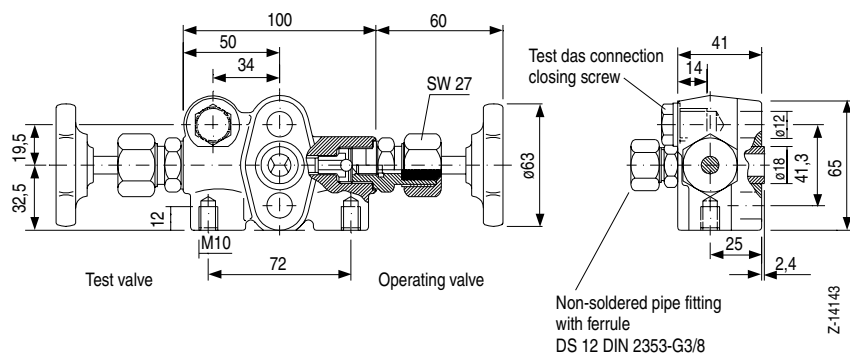
2) The specifications in parantheses apply for valve blocks with 2 valves.

3) See Data Sheet 14-5.01 EN for material composition

4) Grease-free for oxygen measurement, smeared with lubricant „Oxygenoex“ (max. temperature 60 °C)

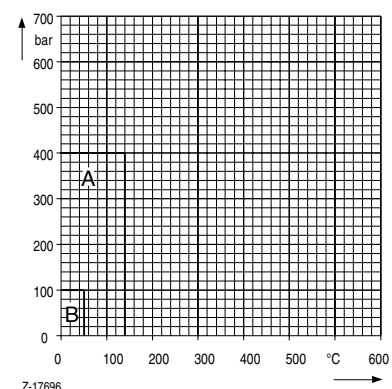
5) PTFE sealing rings 17.7 × 24 × 2.7 for grease-free version

Valve block with 2 valves PN 400 DN 5

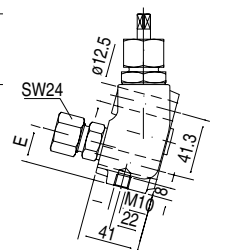
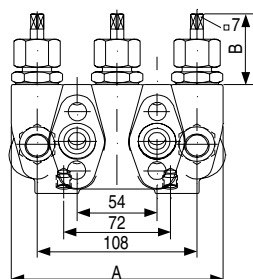


DN	Housing material	Application range	Catalog No.
5	1.0460	A	14931-0839910
5	1.4571	A	14931-0839911

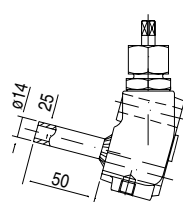
Application range



Technical data

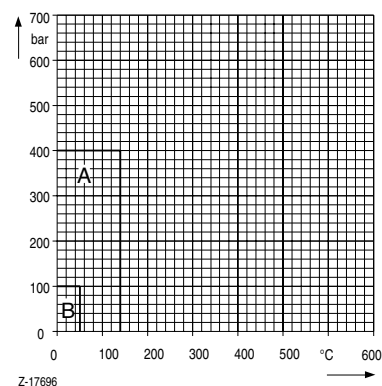
Valve block with 3 valves PN 400 (PN 100²⁾) DN 5, DN 8


Non-soldered pipe fitting
with ferrule
DS12 DIN 2353

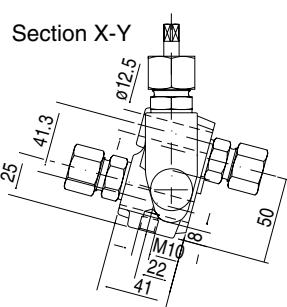
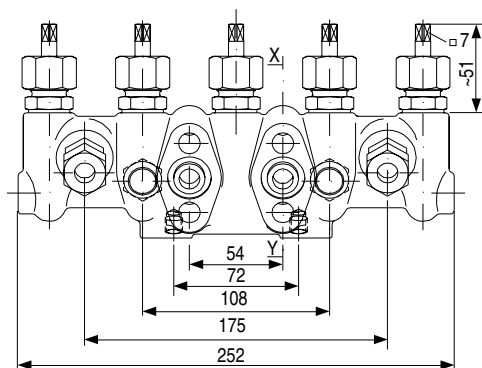


Welded connection
for pipe 14 x 2.5

Application range

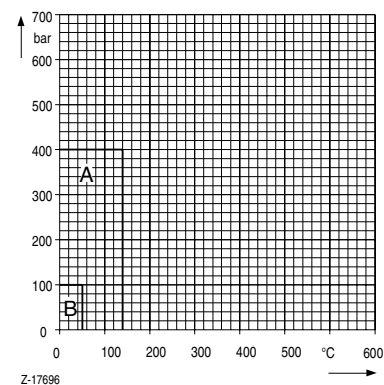


DN	Dimensions A B		Housing materials	Application range	Catalog No.
5	138	51	1.4571	B	14931-0839912 ²⁾
			1.0460	A	14931-0839913
			1.4571	A	14931-0839914
			1.0460	A	14931-0839915
8	147	48	1.0460	A	14931-0839942
					14931-0839941

Valve block with 5 valves¹⁾ PN 400 DN 5
Compact version


Z-14145

Application range



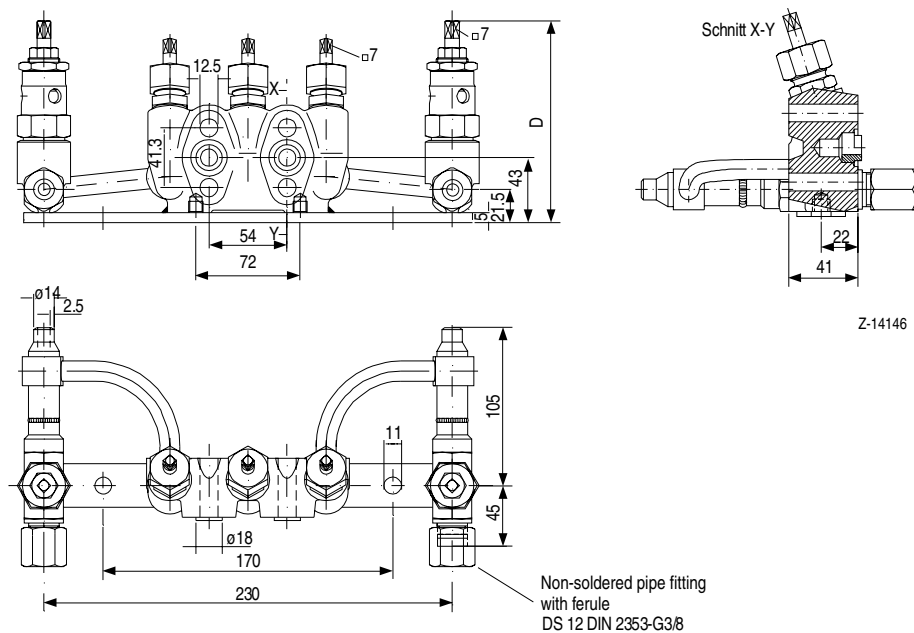
DN	Housing material	Application range	Catalog No.
5	1.0425	A	14931-0839918
5	1.4571	A	14931-0839919

1) Not suitable for transmitters with TDMZ 199 mechanism (purge valves cannot be operated as mechanism width > 175 mm; use valve combination)

2) Grease-free for oxygen

Technical data

**Valve block with 3-valve block DN 5 / DN 8 PN 400
and 2 separate purge valves**



Dimension table

DN	D	Housing materials		Application range		Catalog No.
		Valve block	purge valve	Valve block	purge valve	
5/8	138	1.0460	1.5415	A	E	14931-0839944
8/8	104	1.0460	1.5415	A	C	14931-0839943
8/8	138	1.0460	1.5415	A	E	14931-0839945

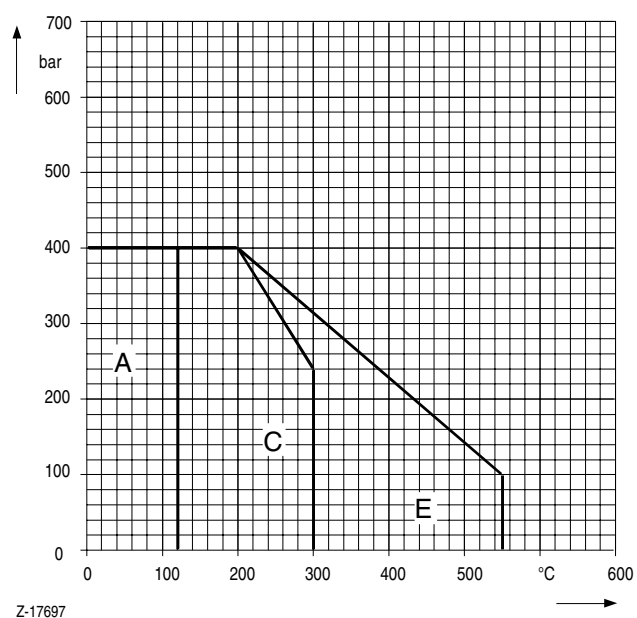


Diagram 1:

Operating range A for valve block
C and E for purge valves

Ordering information										
Valve blocks										
Application range	DN	PN	Connection	Material housing	Weight approx. kg	Catalog No.	Code			
2 valves										
A	5	400	DL 12 G 3/8	1.0460	1.7					14931-0839910 ⁸⁾
A	5	400 ¹⁾	DL 12 G 3/8	1.4517	1.7					14931-0839911
3 valves										
A	5	400	DS 12 G 3/8	1.0460	3.1					14931-0839913 ⁸⁾
A	5	400	DS 12 G 3/8 ⁴⁾	1.4571	3.1					14931-0839914 ⁸⁾
B	5	100 ¹⁾²⁾	DS 12 G 3/8	1.4571	3.1					14931-0839912 ⁷⁾
A	5	400 ¹⁾	S ³⁾	1.0460	3.0					14931-0839915
A	8	400 ¹⁾	DS 12 G 3/8	1.0460	4.4					14931-0839942
A	8	400 ¹⁾	S ³⁾	1.0460	4.5					14931-0839941
5 valves										
A	5	400	DS 12 G 3/8	1.0460	4.7					14931-0839918 ⁸⁾
A	5	400	DS 12 G 3/8	1.4571 ⁴⁾	4.8					14931-0839919 ⁸⁾
Valve combination										
Connections to flow restrictor³⁾ for purging lines welded cone DS 12										
A	Valve blocks/ purge valves									
	DN	PN	Material							
E	5/8	400	1.0460/1.5415		5.4					14931-0839944 ⁸⁾
C	8/8	400	1.0460/1.5415		7.5					14931-0839943 ⁸⁾
E	8/8	400 ¹⁾	1.0460/1.5415		7.6					14931-0839945
Additional ordering information										
Acceptance test certificate to EN 10204-3.1 B for Ex-stock version						14999-07957512	303			
Acceptance test certificate to EN 10204-3.1 B for single order						14999-07957513				
Tapered PTFE gasket for natural gas/helium										
Plate "Operating Instruction"						14905-0622626 ⁸⁾				

1) See acceptance test certificate for single order

2) oil- and grease-free version

3) welded connection for pipe 14 x 2.5

4) for natural gas/helium see Code-No. 303

7) annular bezel tested by the Federal German Institute for Materials' Testing (BAM)

8) Ex-stock version

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