

Function

A **Pressure Proportioning Valve** is used to reduce the downstream (delivered) pressure by a fixed ratio relative to the supply pressure.

The valve has a quick release function to speed up the exhaust of delivered air.

A typical application on trucks, tractors and trailers would be to provide finer control of the service brake when using larger actuators than the maximum axle load would require.

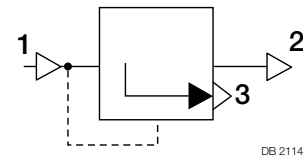
Note:

These valves should not be used in combination with EBS since it would cause a conflict between electrical and pneumatic control systems.

The valve has an integral mounting bracket for easy installation.



Standard Symbol as DIN ISO 1219



Technical Features

| | |
|------------------------------|------------------|
| Maximum operating pressure: | 10 bar |
| Operating Temperature Range: | -40 °C to +80 °C |
| Air port threads: | M22 x 1.5 |
| Weight: | 0.6 kg approx. |

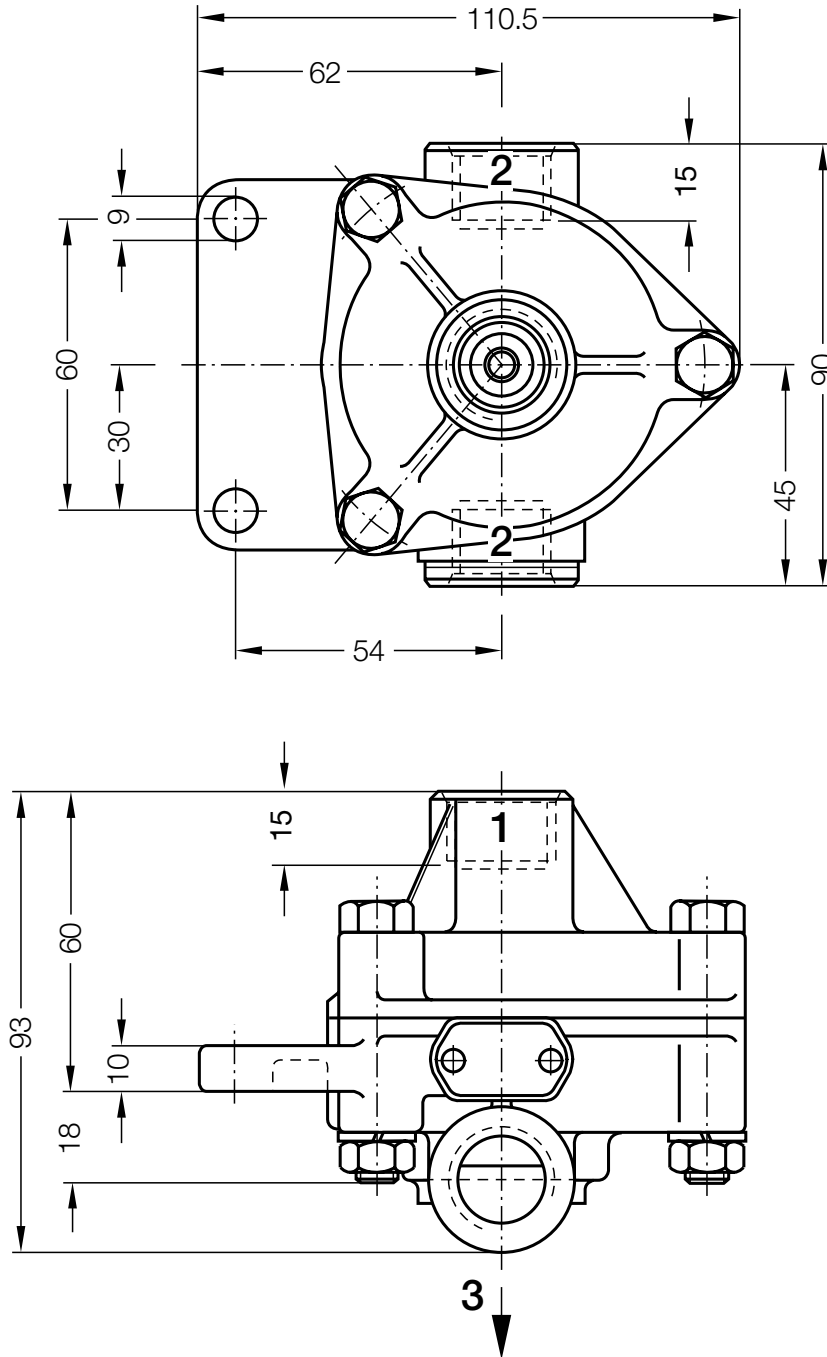
Range Overview

| Part No. | Type No. | Reduction ratio | Pressure [bar] | |
|----------|----------|-----------------|----------------|-----------------|
| | | | Supply Port 1 | Delivery Port 2 |
| I86153 | DB2114 | 2.00:1 | 6.5 | 3.1 |
| I86154 | DB2115 | 1.50:1 | | 4.1 |
| I86155 | DB2116 | 1.15:1 | | 5.4 |
| I86156 | DB2118 | 1.35:1 | | 4.6 |
| I86157 | DB2121 | 1.80:1 | | 3.4 |
| I86158 | DB2122 | 1.25:1 | | 5.0 |
| I86159 | DB2123 | 2.70:1 | | 2.3 |

Valves are also available with exhaust silencers fitted.

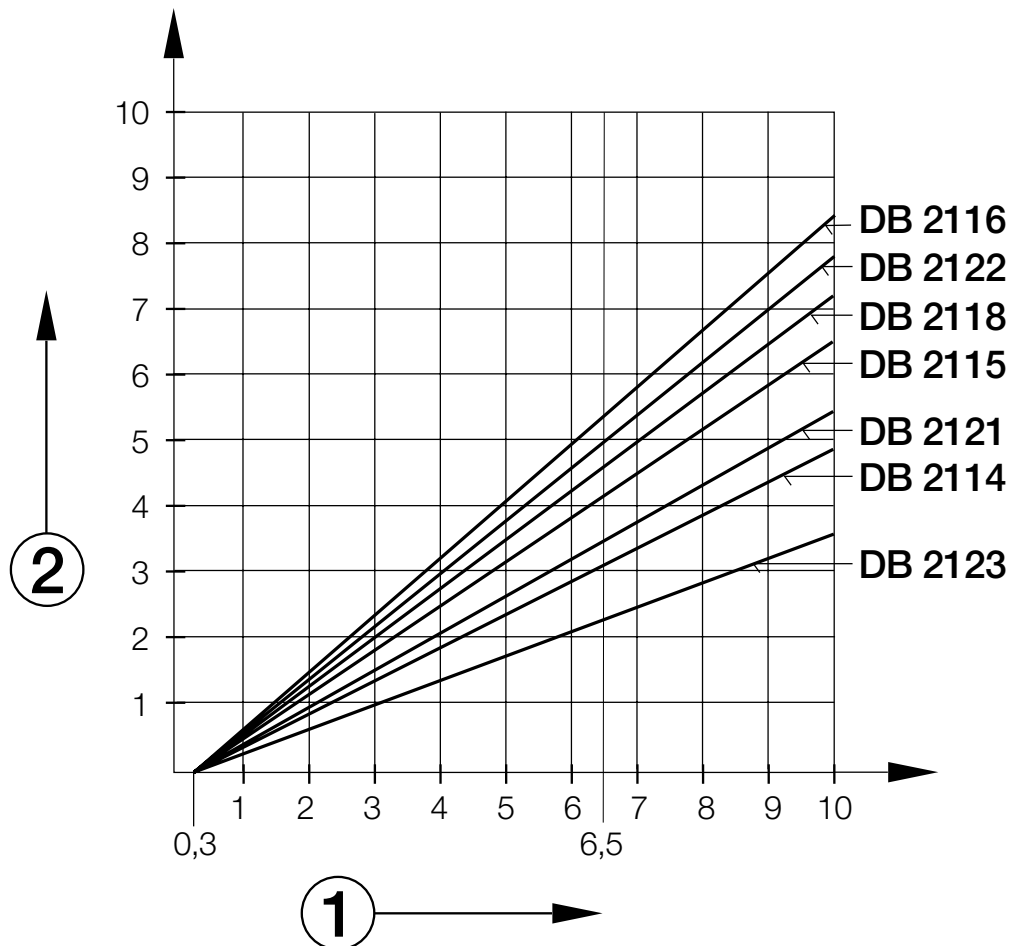
Dimensions

DB2114
DB2115
DB2116
DB2118
DB2121
DB2122
DB2123



Air Ports:
1 = Supply
2 = Delivery
3 = Exhaust

Performance Graphs



- ① = Supply Pressure at Port 1 [bar]
- ② = Delivery Pressure at Port 2 [bar]

Installation

1. Mount the Pressure Proportioning Valve in an upright position, exhaust port 3 facing downwards.
2. Never block the exhaust port or allow it to be close to any part of the vehicle.

Note:

Ensure that the exhaust or silencer (if fitted) is masked during any painting of the vehicle.

Installation

For information on the servicing of Pressure Proportioning Valves refer to the Product Search area of the website www.Knorr-BremseCVS.com.

Revision Details

| | | |
|----------|------------|------------|
| Rev. 003 | April 2019 | New Layout |
| | | |
| | | |



Knorr-Bremse Group

Knorr-Bremse Systems for Commercial Vehicles

Moosacher Strasse 80 | 80809 Munich | Germany
Tel: +49 89 3547-0 | Fax: +49 89 3547-2767
WWW.KNORR-BREMSECVS.COM

Note

All information is subject to change. A printed version of this document may therefore not correspond to the latest revision. To obtain the latest version, please visit our website www.knorr-bremseCVS.com or contact a Knorr-Bremse representative in your area.

If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG

All rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Up-to-date information on our products can be found on our website www.knorr-bremseCVS.com

Disclaimer

The information contained herein is intended for the exclusive use of trained persons within the commercial vehicle industry, and must not be passed on to any third party. All recommendations regarding products and their servicing or usage are with reference to Knorr-Bremse products and should not be considered applicable to products from other manufacturers.

This information does not purport to be all-inclusive and no responsibility is assumed as a result of its use. We cannot accept any liability nor offer any guarantee regarding data accuracy, completeness or timeliness.

The information does not represent any guarantee or ensured characteristics of the Products or Systems described. No liability can be accepted based on the information, its use, recommendations or advice provided. In no event may we be held liable for any damage or loss except in the case of wilful intent or gross negligence on our part, or if any mandatory legal provisions apply.

This disclaimer is an English translation of a German text, which should be referred to for all legal purposes. Any legal disputes arising from the use of this information shall be subject to German law.