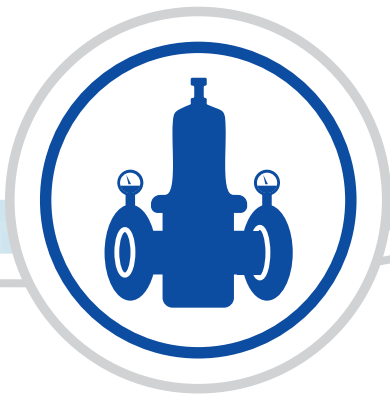




Berluto® Armaturen-Gesellschaft mbH
Rhineland Valve Factory

100 years
1920-2020
made in germany

Stainless steel
pressure reducers



Berluto stainless steel pressure reducers - 7-series and 8-series

In addition to pressure reducers made of brass and gunmetal, Berluto also offers pressure reducers made of high-quality stainless steel. We manufacture a wide range of standard valves that are suitable for a wide variety of applications.

The stainless steel 7-series and 8-series are made completely of V4A (1.4408, 1.4401). The EPDM seals are compliant with the EU Drinking Water Regulation (1935/2004 / EC) and they are FDA-compliant. This makes the stainless steel pressure reducers particularly suitable for demanding media such as non-flammable gases or liquids, e.g. fully demineralized water and steam; the media temperatures can be up to 200°C. In addition, the integrated inlet pressure relief ensures a constant outlet pressure even with strongly fluctuating inlet pressure.

We offer various inlet and outlet pressure ranges, nominal sizes and connection types, depending on the application. You can find detailed information in our overview on the next page.



DRV 702 • DRV 708



DRV 724 • DRV 725



DRV 772 • DRV 778



DRV 732-D • DRV 738-D



DRV 802 • DRV 808



DRV 824 • DRV 825



DRV 872 • DRV 878



DRV 832-D • DRV 838-D

DRV - type	nominal size	PN bar	p ₂ bar	kvs-value m ³ /h	connection
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Diaphragm pressure reducers for standard & wide range pressure

DRV 702	DN 15 - DN 50	40	1.5 - 6	2.9 - 13	internal thread
DRV 703	DN 15 - DN 32	16	1.5 - 6	2.9 - 6.1	internal thread
DRV 708	DN 15 - DN 50	40	1.5 - 10	2.9 - 13	internal thread
DRV 772	DN 15 - DN 50	40	0.5 - 4	2.9 - 13	internal thread
DRV 778	DN 15 - DN 50	40	0.5 - 9	2.9 - 13	internal thread
DRV 802	DN 15 - DN 100	40	1.5 - 6	2.9 - 70	flange
DRV 808	DN 15 - DN 100	40	1.5 - 10	2.9 - 70	flange
DRV 872	DN 15 - DN 100	40	0.5 - 4	2.9 - 70	flange
DRV 878	DN 15 - DN 100	40	0.5 - 9	2.9 - 70	flange

Diaphragm pressure reducers for low pressure

DRV 750	DN 15 - DN 50	25	0.2 - 2	2.9 - 13	internal thread
DRV 850	DN 15 - DN 50	25	0.2 - 2	2.9 - 13	flange

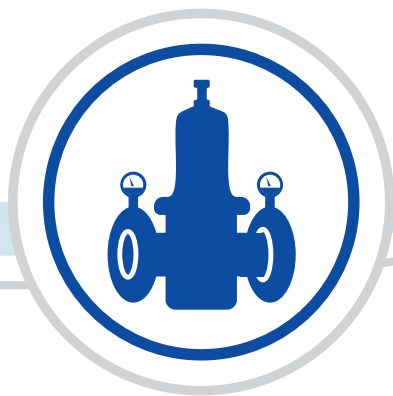
Piston pressure reducers for high pressure

DRV 724	DN 15 - DN 50	40	1.5 - 12	2.9 - 13	internal thread
DRV 725	DN 15 - DN 50	40	2.0 - 20	2.9 - 13	internal thread
DRV 824	DN 15 - DN 100	40	1.5 - 12	2.9 - 70	flange
DRV 825	DN 15 - DN 50	40	2.0 - 20	2.9 - 13	flange

Pressure reducers for steam applications

Option A: media temperature up to 150°C or option B: media temperature up to 200°C

DRV 730-D	DN 15 - DN 50	16	0.3 - 2	3.0 - 12	internal thread
DRV 732-D	DN 15 - DN 50	16	2.0 - 5	3.6 - 14	internal thread
DRV 738-D	DN 15 - DN 50	16	4.0 - 10	3.6 - 14	internal thread
DRV 830-D	DN 15 - DN 50	16	0.3 - 2	3.0 - 12	flange
DRV 832-D	DN 15 - DN 50	16	2.0 - 5	3.6 - 14	flange
DRV 838-D	DN 15 - DN 50	16	4.0 - 10	3.6 - 14	flange



Diaphragm pressure reducers with internal thread acc. ISO 228

DRV-type	max. inlet pressure	outlet pressure range
DRV 702	40 bar	1.5 - 6 bar
DRV 703	16 bar	1.5 - 6 bar
DRV 708	40 bar	1.5 - 10 bar
DRV 772	40 bar	0.5 - 4 bar
DRV 778	40 bar	0.5 - 9 bar



Characteristics

Standard and wide range pressure reducers are suitable for all usual applications with inlet pressures up to 40 bar. Depending on your specific needs you can choose between four different outlet pressure ranges.

The pressure reducers are suitable for the use of aggressive media, but can also be used for air and neutral gases if larger flow rates are required.

Our stainless steel series with EPDM seals meet the requirements of the EU regulation EG1935/2004 and the regulations of the FDA (Food and Drug Administration).

The metallic components in contact with the medium are made of austenitic materials such as 1.4408 and 1.4404.

This means that you can use our stainless steel series with EPDM seals without hesitation, for example in the secondary sector of the food industry.

Item number*						
nominal size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DRV 702	070202	070203	070204	070205	070206	070207
DRV 703	070302	070303	070304	070305	---	---
DRV 708	070802	070803	070804	070805	070806	070807
DRV 772	077202	077203	077204	077205	077206	077207
DRV 778	077802	077803	077804	077805	077806	077807

*Item number may vary depending on the version



Features

- pressure-relieved single seated valve
- diaphragm-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 40 bar (or up to 16 bar)
- female thread acc. ISO 228, optionally with NPT-threads
- with integrated strainer filter
- replaceable inner parts
- double-ended G 1/4" manometer fitting (for outlet pressure)
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 1 bar
- EPDM seals with FDA conformity

Connections



Female thread
acc. ISO 228
from G 1/2" up to G 2"



Temperatures

Various options in the area of seals and wetted internal parts allow a maximum temperature of up to 190°C.

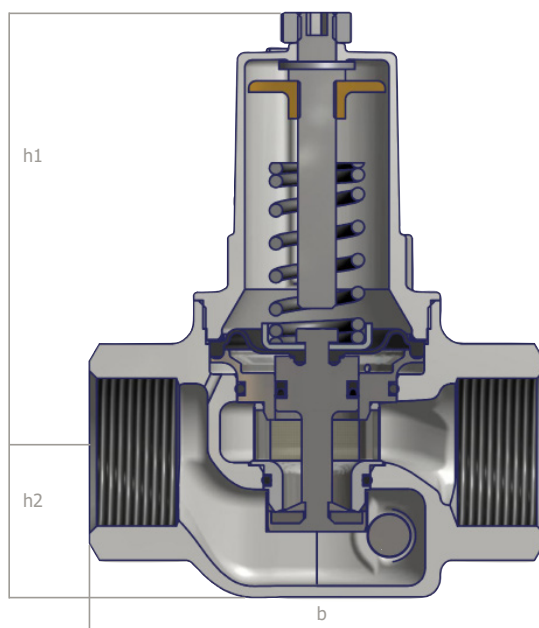


from -30 °C up to +190 °C

Seals and temperatures

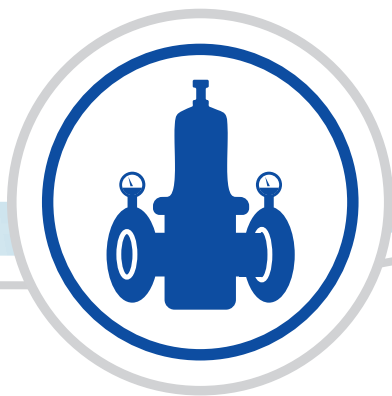
NBR	-15°C to +100°C
EPDM*	-30°C to +130°C
FPM	-10°C to +190°C

* with FDA conformity



nominal size	kvs-value m³/h	dimension b mm	dimension h1* mm	dimension h2 mm	weight* kg
1/2"	2.9	95	118	29	1.3
3/4"	3.9	95	118	29	1.3
1"	5.4	110	118	39	2.0
1 1/4"	6.1	120	118	39	2.0
1 1/2"	9	150	219	37	5.4
2"	13	160	219	37	5.3

*Deviating dimensions for DRV 703



Diaphragm pressure reducers with flange connection acc. DIN EN 1092

DRV-Type	nominal size	max. inlet pressure	outlet pressure range
DRV 802	DN 15 - DN 50	40 bar	1.5 - 6 bar
	DN 65 - DN 100	25 bar	
DRV 808	DN 15 - DN 50	40 bar	1.5 - 10 bar
	DN 65 - DN 100	25 bar	3.0 - 10 bar
DRV 872	DN 15 - DN 50	40 bar	0.5 - 4 bar
	DN 65 - DN 100	25 bar	
DRV 878	DN 15 - DN 50	40 bar	0.5 - 9 bar
	DN 65 - DN 100	25 bar	



Characteristics

Standard and wide range pressure reducers are suitable for all usual applications with inlet pressures up to 40 bar (from DN 65 up to 25 bar).

Depending on your specific needs you can choose between four different outlet pressure ranges.

As standard, the diaphragm controlled pressure reducers are equipped with FKM-/EPDM- or NBR seals. The EPDM version is suitable for drinking water.

The flanges are manufactured according to DIN EN 1092, ANSI or JIS flanges are also available on request.

nominal size	Item number*								
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
DRV 802	080202	080203	080204	080205	080206	080207	080208-00080	080209-00080	080210-00080
DRV 808	080802	080803	080804	080805	080806	080807	080808-00080	080809-00080	080810-00080
DRV 872	087202	087203	087204	087205	087206	087207	087208-00080	087209-00080	087210-00080
DRV 878	087802	087803	087804	087805	087806	087807	087808-00080	087809-00080	087810-00080

* Item number may vary depending on the version



Features

- pressure-relieved single seated valve
- diaphragm-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 40 bar (DN 15 - DN 50)/ up to 25 bar (DN 65 - DN 100)
- flanges acc. DIN EN 1092
- optionally all sizes with ANSI or JIS flanges
- with integrated strainer filter (up to DN 50)
- replaceable inner parts
- double-ended G 1/4" manometer fitting (for outlet pressure)
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 1 bar
- EPDM seals with FDA conformity

Connections



flanges
acc. DIN EN 1092 PN 40 (DN 15 - DN 50)
acc. DIN EN 1092 PN 25 (DN 65 - DN 80)
acc. DIN EN 1092 PN 16/ PN 25 (DN 100)



Temperatures

Various options in the area of seals and wetted internal parts allow a maximum temperature of up to 190°C.

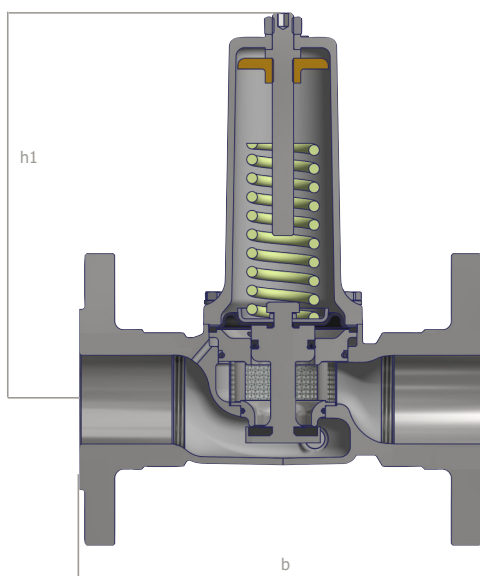


from -30 °C up to +190 °C

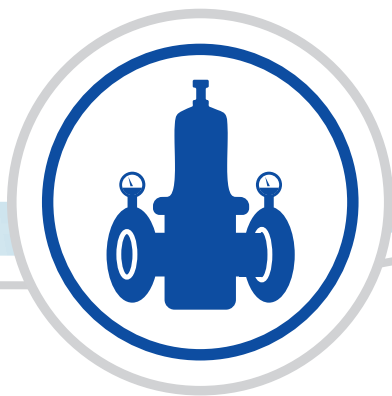
Seals and temperatures

NBR -15°C to +100°C
EPDM* -30°C to +130°C
FPM** -10°C to +190°C

* with FDA conformity, DN 32 not available
** up to DN 50



nominal size	kvs-value in m³/h	dimension b mm	dimension h1 mm	flange Ø mm	weight kg
DN 15	2.9	130	118	95	1.3
DN 20	3.9	150	118	105	1.3
DN 25	5.4	160	118	115	2.0
DN 32	6.1	180	118	140	2.0
DN 40	9	200	219	150	5.4
DN 50	13	230	219	165	5.3
DN 65	48	290	347	185	32.3
DN 80	60	310	347	200	35.2
DN 100	70	350	347	220	39.2



Pressure reducers for low pressure with internal thread and flanges

DRV-Type	Connection	max. inlet pressure	outlet pressure range
DRV 750	internal thread	25 bar	0.2 - 2 bar
DRV 850	flange	25 bar	0.2 - 2 bar



Characteristics

Low pressure reducers are suitable for applications with inlet pressures up to 25 bar combined with low outlet pressures from 0.2 to 2 bar.

With the help of the enlarged control diaphragm the outlet pressure can be set sensitively and with high accuracy.

These low pressure versions are ideally suited for critical applications, whenever low pressures are required or sensitive devices will be installed downstream.

As standard, all low pressure reducers are available with internal thread according to ISO 228 and with flanges as per DIN EN 1092. On request, connection types such as ANSI, JIS, NPT or welding ends are deliverable.

Item number*						
nominal size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DRV 750	075002	075003	075004	075005	075006	075007
DRV 850	085002	085003	085004	085005	085006	085007

* Item number may vary depending on the version



Features

- pressure-relieved single seated valve
- diaphragm-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 25 bar
- outlet pressure : 0.2 - 2 bar
- female thread acc. ISO 228, optionally with NPT-thread
- flanges acc. DIN EN 1092 PN 40, optionally all sizes with ANSI or JIS flanges
- with integrated strainer filter
- replaceable inner parts
- double-ended G 1/4" manometer fitting (for outlet pressure)
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 1 bar
- EPDM seals with FDA conformity

Connections



Female thread acc. ISO 228
Flange connection acc. DIN EN 1092 PN 40
from DN 15 up to DN 50



Temperatures

Various options in the area of seals and wetted internal parts allow a maximum temperature of up to 190°C.

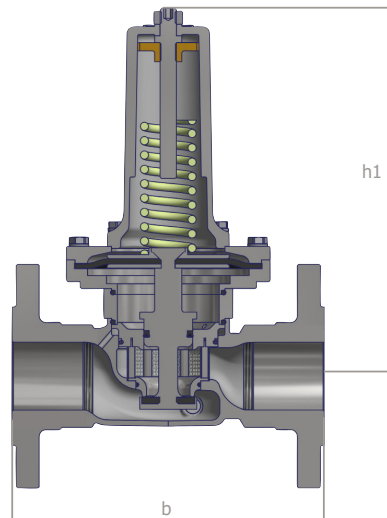
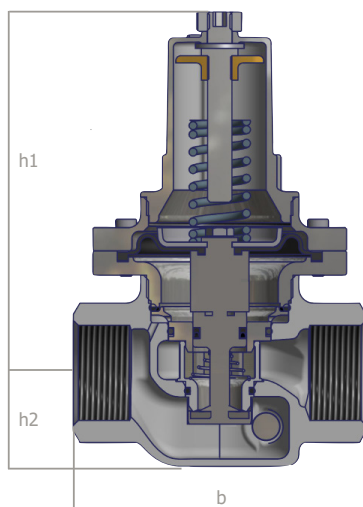


from -30 °C up to +190 °C

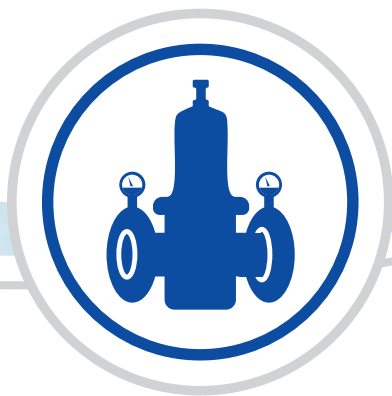
Seals and temperatures

NBR*	-15°C to +100°C
EPDM**	-30°C to +130°C
FPM	-10°C to +190°C

* DRV 750: from 1/2" up to 1 1/4", DRV 850: from DN 20 up to DN 32
** with FDA conformity, DRV 850: DN 32 not available



nominal size	kvs-value m³/h	Dimension h1 mm	DRV 750			DRV 850		
			Dimension h2 mm	Dimension b mm	Weight kg	Dimension b mm	Flange Ø mm	Weight kg
1/2" / DN 15	2.9	137	29	95	1.7	130	95	3.2
3/4" / DN 20	3.9	137	29	95	1.6	150	105	3.9
1" / DN 25	5.4	150	39	110	3.1	160	115	5.9
1 1/4" / DN 32	6.1	150	39	120	3.0	180	140	7.3
1 1/2" / DN 40	9	269	37	150	9.3	200	150	13.7
2" / DN 50	13	269	37	160	9.1	230	165	15.4



Pressure reducers for high pressure with internal thread and flanges

DRV-Type	Connections	max. inlet pressure	outlet pressure range
DRV 724	internal thread	40 bar	1.5 - 12 bar
DRV 725	internal thread	40 bar	2 - 20 bar
DRV 824	flange	40 bar (25 bar)	1.5 - 12 bar (4.0 - 12 bar)
DRV 825	flange	40 bar	2 - 20 bar



Characteristics

Piston-type pressure reducers for high pressure are extremely robust. With a maximum inlet pressure range up to 40 bar and an outlet pressure range up to 20 bar this series is ideally suited for numerous demanding applications.

Due to the robust piston design these types react less sensitive to pressure shocks than diaphragm pressure reducers.

The missing diaphragm reduces the seals contact surface of piston-type pressure reducers. That is why this valve type is perfectly adapted for applications with highly aggressive media.

As standard, all high pressure reducers are available with internal thread according to ISO 228 and with flanges as per DIN EN 1092. On request, connection types such as ANSI, JIS, NPT or welding ends are deliverable.

nominal size	Item number*								
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DRV 724	072402	072403	072404	072405	072406	072407	---	---	---
DRV 725	072502	072503	072504	072505	072506	072507	---	---	---
DRV 824	082402	082403	082404	082405	082406	082407	082408-00020	082409-00020	082410-00020
DRV 825	082502	082503	082504	082505	082506	082507	---	---	---

* Item number may vary depending on the version



Features

- pressure-relieved single seated valve
- piston-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 40 bar (up to DN 50)/ 25 bar (DN 65 - DN 100)
- outlet pressure: 1.5 - 20 bar
- female thread acc. ISO 228, optionally with NPT-thread
- flanges acc. DIN EN 1092 PN 40/ PN 25, optionally all sizes with ANSI or JIS flanges
- with integrated strainer filter (up to DN 50)
- replaceable inner parts
- double-ended G 1/4" manometer fitting
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 1 bar

Connections



Female thread acc. ISO 228
flange connection
acc. DIN EN 1092 PN 40 (up to DN 50)
acc. DIN EN 1092 PN 25 (DN 65 - DN 100)



Temperatures

Various options in the area of seals and wetted internal parts allow a maximum temperature of up to 190°C.

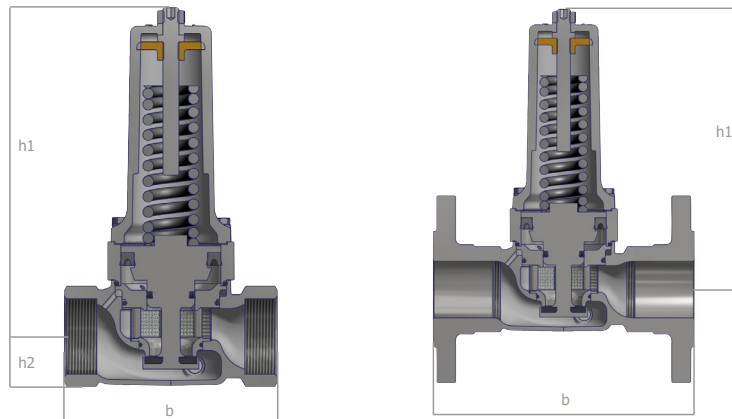


from -30 °C up to +190 °C

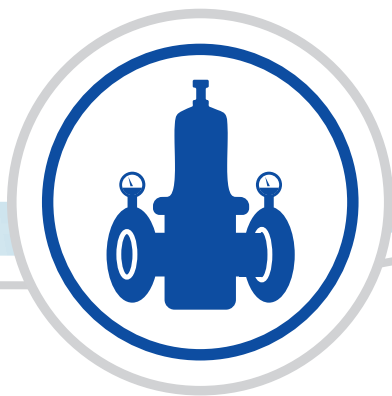
Seals and temperatures

NBR*	-15°C to +100°C
EPDM*	-30°C to +130°C
FPM	-10°C bis +190°C

* not all nominal sizes

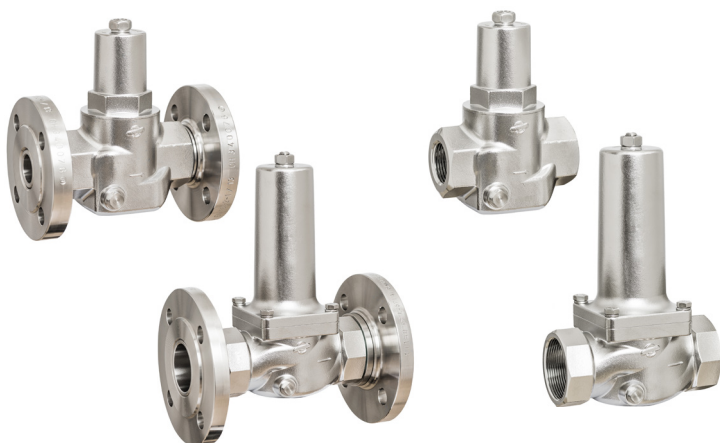


nominal size	kvs-value m³/h	Dimen- sion h1 mm	DRV 724 • DRV 725			DRV 824 • DRV 825 (up to DN 50)		
			Dimen- sion h2 mm	Dimen- sion b mm	Weight kg	Dimen- sion b mm	Flange Ø mm	Weight kg
1/2" / DN 15	2.9	136	29	95	1.7	130	95	3.2
3/4" / DN 20	3.9	136	29	95	1.6	150	105	3.9
1" / DN 25	5.4	137	39	110	2.5	160	115	5.3
1 1/4" / DN 32	6.1	137	39	120	2.4	180	140	6.6
1 1/2" / DN 40	9	247	37	150	6.8	200	150	11.2
2" / DN 50	13	247	37	160	6.7	230	165	13.0
DN 65	48	353,5	---	---	---	290	185	34.5
DN 80	60	353,5	---	---	---	310	200	37.4
DN 100	70	353,5	---	---	---	350	235	41.4



Pressure reducers for steam applications with internal thread and flanges

DRV-Type	Connections	max. inlet pressure	outlet pressure range
DRV 730-D	internal thread	16 bar	0.3 - 2 bar
DRV 732-D	internal thread	16 bar	2 - 5 bar
DRV 738-D	internal thread	16 bar	4 - 10 bar
DRV 830-D	flange	16 bar	0.3 - 2 bar
DRV 832-D	flange	16 bar	2 - 5 bar
DRV 838-D	flange	16 bar	4 - 10 bar



Characteristics

The DRV series 73x/ 83x were specially developed for use with steam applications up to 200°C. The carefully selected materials ensure optimum steam resistance in this range.

All nominal sizes are equipped with a removable cartridge for easy maintenance. We offer our steam pressure reducers with female thread (ISO 228 or optional NPT - ASME B1.20.1) and DIN flanges (optional ANSI, JIS) as standard.

Item number*						
nominal size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"

steam applications up to 150°C

DRV 730-D	073002-000A0	073003-000A0	073004-000A0	073005-000A0	073006-000A0	073007-000A0
DRV 732-D	073202-000A0	073203-000A0	073204-000A0	073205-000A0	073206-000A0	073207-000A0
DRV 738-D	073802-000A0	073803-000A0	073804-000A0	073805-000A0	073806-000A0	073807-000A0
DRV 830-D	083002-000A0	083003-000A0	083004-000A0	083005-000A0	083006-000A0	083007-000A0
DRV 832-D	083202-000A0	083203-000A0	083204-000A0	083205-000A0	083206-000A0	083207-000A0
DRV 838-D	083802-000A0	083803-000A0	083804-000A0	083805-000A0	083806-000A0	083807-000A0

steam applications up to 200°C

DRV 730-D	073002-000B0	073003-000B0	073004-000B0	073005-000B0	073006-000B0	073007-000B0
DRV 732-D	073202-000B0	073203-000B0	073204-000B0	073205-000B0	073206-000B0	073207-000B0
DRV 738-D	073802-000B0	073803-000B0	073804-000B0	073805-000B0	073806-000B0	073807-000B0
DRV 830-D	083002-000B0	083003-000B0	083004-000B0	083005-000B0	083006-000B0	083007-000B0
DRV 832-D	083202-000B0	083203-000B0	083204-000B0	083205-000B0	083206-000B0	083207-000B0
DRV 838-D	083802-000B0	083803-000B0	083804-000B0	083805-000B0	083806-000B0	083807-000B0

* Item number may vary depending on the version



Features

- pressure relieved single seated valve
- piston-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 16 bar
- outlet pressure: 2 - 10 bar
- female thread acc. ISO 228, optionally with NPT-thread
- Flanges acc. to DIN EN 1092 PN 40, optionally ANSI or JIS
- replaceable inner parts
- double-ended G 1/4" manometer fitting (for outlet pressure)
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 0,3 bar

Connections



Female thread acc. ISO 228
Flange connection acc. DIN EN 1092 PN 40



Temperatures

Various options in the area of seals and wetted internal parts allow a maximum temperature of up to 200°C.

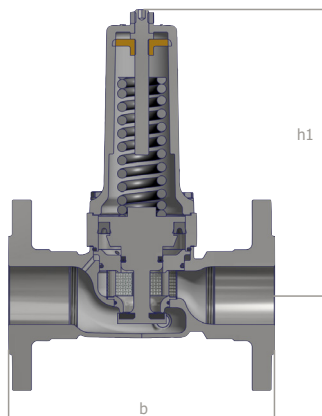
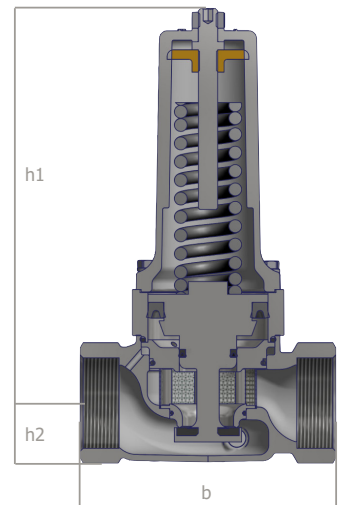


from -30 °C up to +200 °C

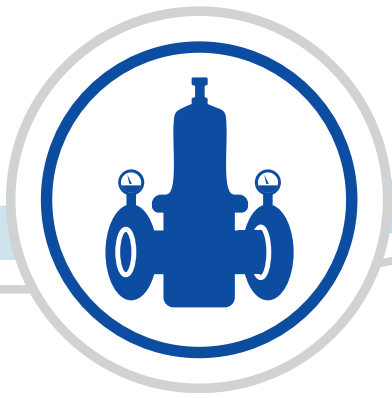
Seals and temperatures

PTFE/ EPDM - 30°C to +150°C
PTFE/ EPDM/ FEPM +20°C to +200°C

nominal size	Dimension h2 mm	Dimension b mm	DRV 730-D			DRV 732-D • DRV 738-D		
			Dimension h1 mm	kvs-value m³/h	Weight kg	Dimension h1 mm	kvs-value m³/h	Weight kg
G 1/2"	29	95	150	3.0	2.3	117	3.6	1.5
G 3/4"	29	95	150	3.3	2.3	117	4.1	1.4
G 1"	38	110	151	4.5	3.1	117	5.3	2.2
G1 1/4"	38	120	151	4.7	3.0	117	5.6	2.1
G 1 1/2"	38	150	262	11.3	8.6	217	13.3	5.5
G 2"	38	160	262	12.0	8.5	217	14.0	5.4



nominal size	Flange Ø mm	Dimension b mm	DRV 830-D			DRV 832-D • DRV 838-D		
			Dimension h1 mm	kvs-value m³/h	Weight kg	Dimension h1 mm	kvs-value m³/h	Weight kg
DN 15	95	130	150	3.0	3.8	116	3.6	2.9
DN 20	105	150	150	3.3	4.6	116	4.1	3.6
DN 25	115	160	151	4.5	5.8	116	5.3	4.9
DN 32	140	180	151	4.7	7.0	116	5.6	6.2
DN 40	150	200	262	11.3	13.0	219	13.3	9.8
DN 50	165	230	262	12.0	14.5	219	14.0	11.6



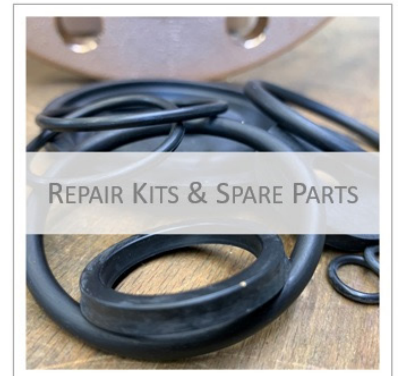
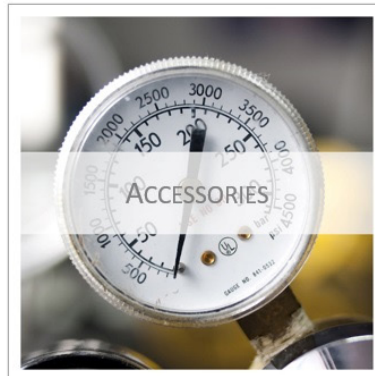
About us

Berluto Armaturen-GmbH is a medium-sized manufacturer of high-quality control and safety valves for use in buildings and industrial applications.

Particularly in the field of pressure regulators, float valves and safety fittings, a wide range of products and a sophisticated modular system mean that the right fitting can be supplied for almost any application. All Berluto quality fittings are manufactured exclusively at the company's site in Tönisvorst (Lower Rhine) using high-quality materials (red-bronze, brass, stainless steel). Computer-aided development methods with direct CAD/CAM connection to CNC machining centres allow flexible production with consistently high precision and short throughput times.

This allows larger valve series as well as special valves tailored to customer requirements to be produced with the well-known high Berluto quality. At the end of the production chain, computer-controlled testing facilities ensure that the finished valves are subjected to one hundred percent functional testing and quality assurance. Despite modern development and production methods, our employees have retained an essential Berluto characteristic: a love of detail and first-class craftsmanship.

Today, all Berluto valves benefit from a know-how that has grown for a century in the development, design and manufacture of special valves, pressure reducers, float valves and overflow valves in angle and straight form.





Fast order processing

You will receive offers and order confirmations from us usually within 24 hours.



Short delivery times

70% of all products can be delivered within 48 hours. If it is particularly urgent, we will gladly organize express delivery.



Commercial support

Our sales team is always available to answer your questions about order processing in a competent and reliable manner.



Technical support

Technical advice, spare parts, drawings & STEP files or solutions according to customer requirements. Together with you we will look for the right solution!



Production in Germany

We manufacture and assemble our products exclusively in Germany. This ensures highest availability and quality.



Tradition obliges

We have been an internationally successful manufacturer of valves for 100 years and are a reliable partner for our customers.

Berluto Armaturen-Gesellschaft mbH

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