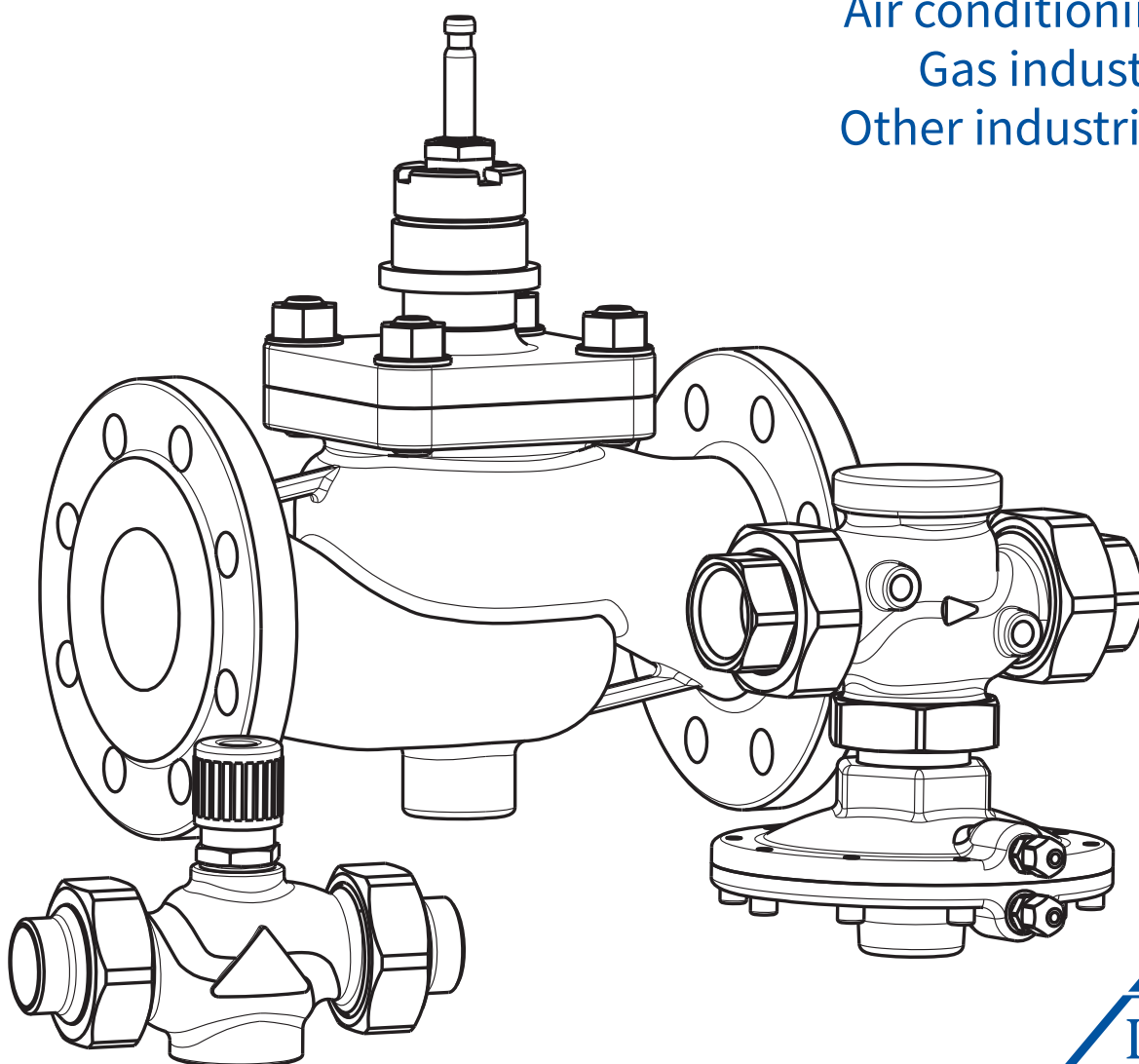


OVERVIEW OF PRODUCTION RANGE

Product segment 01 up to PN 40

Heating
Ventilation
Air conditioning
Gas industry
Other industries



01.25.GB

Valve		COMAR line	113	BEE line				UV x16	
Series		RV 111	RV 113	RV 122	RD 122	RD 123	RT 122	UV 116	UV 216
Valve type	Differential pressure regulator				●				
	Output pressure regulator				●				
	Bypass valve					●			
	Input pressure regulator					●			
	Temperature regulator						●		
	Control valve	●	●	●					
	Fail-safe action valve								
	Shut-off valve							●	●
	Check valve								
Valve version	Two-way	●						●	●
	Two-way, pressure-balanced		●	●	●	●	●		
	Three-way	●	●						
	Direct (Plug down to close)			●	●		●	●	●
	Reverse (Plug down to open)	●	●			●			
Connection	Flanged	●	●	●	●	●	●	●	●
	Threaded	●		●	●	●	●		
	Weld ends	●		●	●	●	●		
Diameter nominal DN		15 - 40	15 - 150	15 - 50	15 - 50	15 - 50	15 - 50	15 - 300	15 - 200
Pressure nominal PN		16	6; 16; 25	25	25	25	25	16	25
Range of Kvs [m³/h]		0,16 - 25	0,63 - 360	0,16 - 40	0,63 - 32	4,5 - 27,5	0,63 - 32	5,9 - 1460	5,9 - 690
Diameter nominal NPS									
Pressure nominal Class									
Range of Cv [US Galon/min]									
Body material	Bronze								
	Grey cast iron	●	●					●	
	Spheroidal cast iron		●	●	●	●	●		●
	Cast steel								
	Alloy steel								
	Stainless steel								
Packing	O-ring EPDM	●	●	●	●	●	●		
	DRSpack® (PTFE)								
	Graphite							●	●
	Bellows								
	Bellows with safety PTFE packing								
	Bellows with safety Graphite packing								
Seat sealing	Metal - metal							●	●
	Metal - EPDM	●	●	●	●	●	●		
	Metal - PTFE								
	Stellited trim								
Flow characteristics	Linear	●	●		●	●	●		
	Equal-percentage								
	LDMspline®	●	●	●					
	Parabolic								
	On-off							●	●
Actuating type	Hand wheel	●						●	●
	Electromechanic actuator	●	●	●					
	Electrohydraulic actuator		●						
	Pneumatic actuator								

UV 200	200 line										Check valve	
UV 2x6 UV 2x7	RV 2x0 HU 2x0 UV 2x0	RV 2x1 HU 2x1	RV 2x2 HU 2x2	RV 2x3 HU 2x3	RV 2x4	RV 2x5	CV 2x0 SV 2x0	CV 2x2	RD 212	RD 213	ZV 116 ZV 216	ZV 2x6 ZV 2x7

HISTORY AND PRESENT TIME OF LDM

LDM spol, s r. o. was established by three partners in the mid of 1991. From the very beginning it has always been and also for the future will be focused on production of industrial valves.

The history of production of industrial valves in Česká Třebová is dated since 1909 when Mr. Josef Jindra founded a company with the homonymic firm name.

In 1919 he amalgamated with Mr. Václav Šrefl and established the company Šrefl and Jindra, later registered as Jindra and Šrefl. Then production programme included wide variety valves from small brass water valves over gas valves up to steam valves made of cast steel, including steam safety valves. At the end of 1929 both partners were separating and both founded own factory in Česká Třebová for manufacturing of industrial valves. Nowadays the former Šrefl's factory is the part of production facilities of LDM.

After nationalization in 1948 both companies changed their names several times till 1975 when became a part of worldwide known Czechoslovak concern Sigma Lutín. After so-called velvet revolution is the Sigma concern separated to different companies which were privatized or restored.

Also the Sigma Česká Třebová was privatized and became an joint-stock company, nevertheless the company became bankrupt in 1995. LDM bought it and became the continuator of more than 100-years of valves manufacturing tradition in Česká Třebová.

Currently LDM is strongly export-oriented company with more than 220 employees and LDM industrial valves can be found worldwide particularly in power generation, industrial processes, heating, ventilation, air conditioning, gas industry and other applications.

LDM product range includes control valves, shut-off valves and safety valves in pressure ranges from PN 6 to PN 400 and dimensions from DN 10 to DN 600. The wide product portfolio is a reason why LDM valves can be found in almost all fields of human activities where it is necessary to control a flow, pressure or temperature.

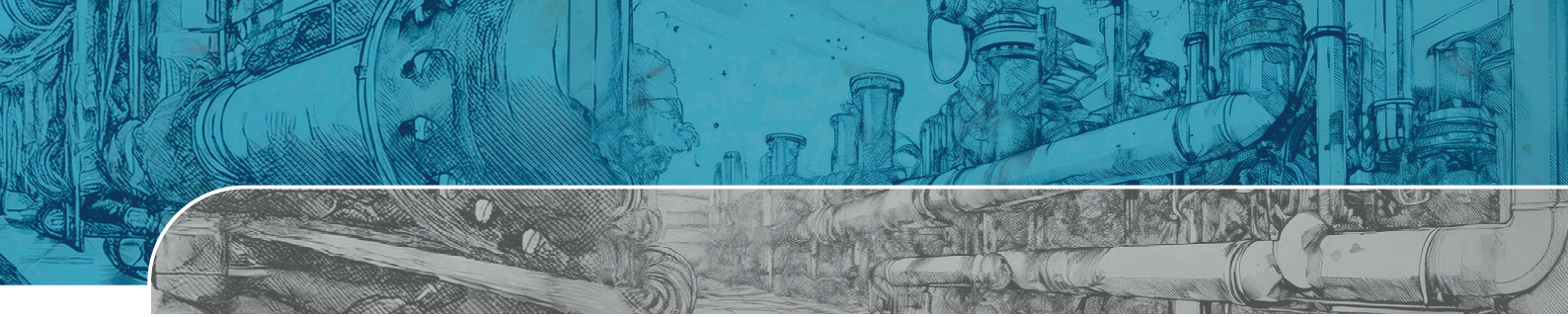
LDM has its own subsidiary in Slovakia, Poland, Bulgaria, Russia and Kazakhstan and many authorized partners in other countries.



Period catalogue of Jindra and Šrefl company in 20's



A sample of manufacturing portfolio of LDM nowadays



LDM has also well-established and certified integrated quality management system according to standards ISO 9001, ISO 14001 and OHSAS 18001 which it is ensuring permanent quality and a high level of all company processes.

As follows from above mentioned, LDM company dignity continues the long-time tradition of industrial valves manufacturing in Česká Třebová to which proudly claims as its successor. The company's future consists in fulfillment of the vision that was already defined in 1995:

- World-famous, leading and trend-making company in the development, production, sale and service of industrial valves
- Dynamic company allowing to all their employees achievement of high level of self-fulfillment and social prestige
- Reputable company whose name stands for high utility value, quality and reliability

Successful fulfillment of the vision results from the conviction, that three main pillars on which the company stands are strong. The first pillar are our customers and their needs whose satisfaction is directed effort of the whole company to. The second pillar are our products. LDM is company which firmly stands on its own development, so the cycle of a development, design, manufacturing, sale and service is closed. The third and no less important pillar are own employees who are able to respond flexibly to constantly changing market requirements and who are able to actively and jointly form the company future.

Ultimately, not only many awards from international exhibitions from past, but also many OEM products, whose LDM manufacture and delivers to many other producers under their own brand, recognize the high quality of LDM production and confirm the right way, which LDM took in 1991.



LDM facility today

COMAR line (RV 111)

DN 15 to 40, PN 16, $t_{\max} = 150^{\circ}\text{C}$, range of Kvs: 0,16 to 25 m³/h

Actuating

- Hand wheel
- Electromechanic actuators
- simple installation by mounting the actuator and tightening the sleeve nut

RV 111 R



RV 111 S



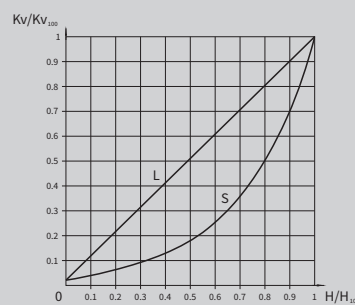
Differential pressures

DN	Δp_{\max} [kPa]
15	400
20	350
25	200
32	110
40	60

Packing - O-ring EPDM

- 2 to 150°C
- Service life more than 1 000 000 cycles

Flow characteristics



L - linear characteristic
S - LDMspline® characteristic

Version

Two-way



Three-way



Plug with soft sealing Seat leakage rate

< 0.0005 % Kvs

Connection

Threaded coupling



Weld unions

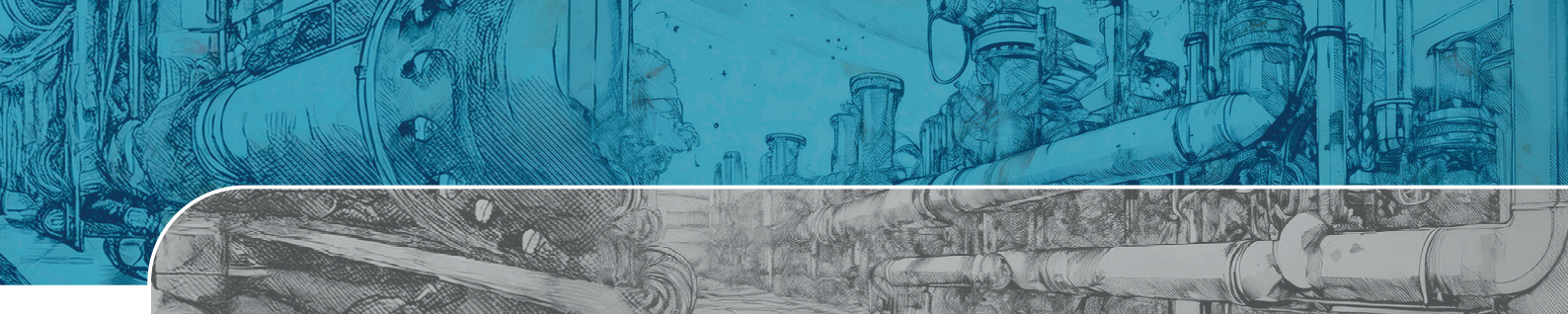




Flange PN 16



Body material

- Grey cast iron EN-JL 1030



Type	Series		Description	For the following actuators:
Control valve	RV 111 R 2.. RV 111 S 2..		Two-way, reverse	LDM, Siemens, Sauter, hand wheel
	RV 111 R 3.. RV 111 S 3..		Three-way, reverse	LDM, Siemens, Sauter, hand wheel

113 (RV 113)

DN 15 to 150, PN 6, 16 and 25, $t_{\max} = 150^{\circ}\text{C}$, range of Kvs: 0,63 to 360 m^3/h

Unified connection to the actuators

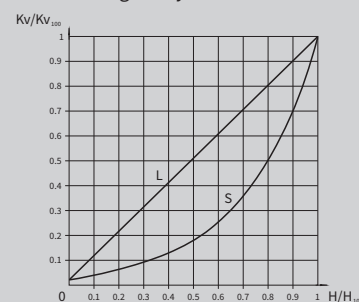
Siemens, Belimo, Ekorex+, LDM, Regada
All used actuators have unified connection
which enables an easy replacement
or substitution

Packing - O-ring EPDM

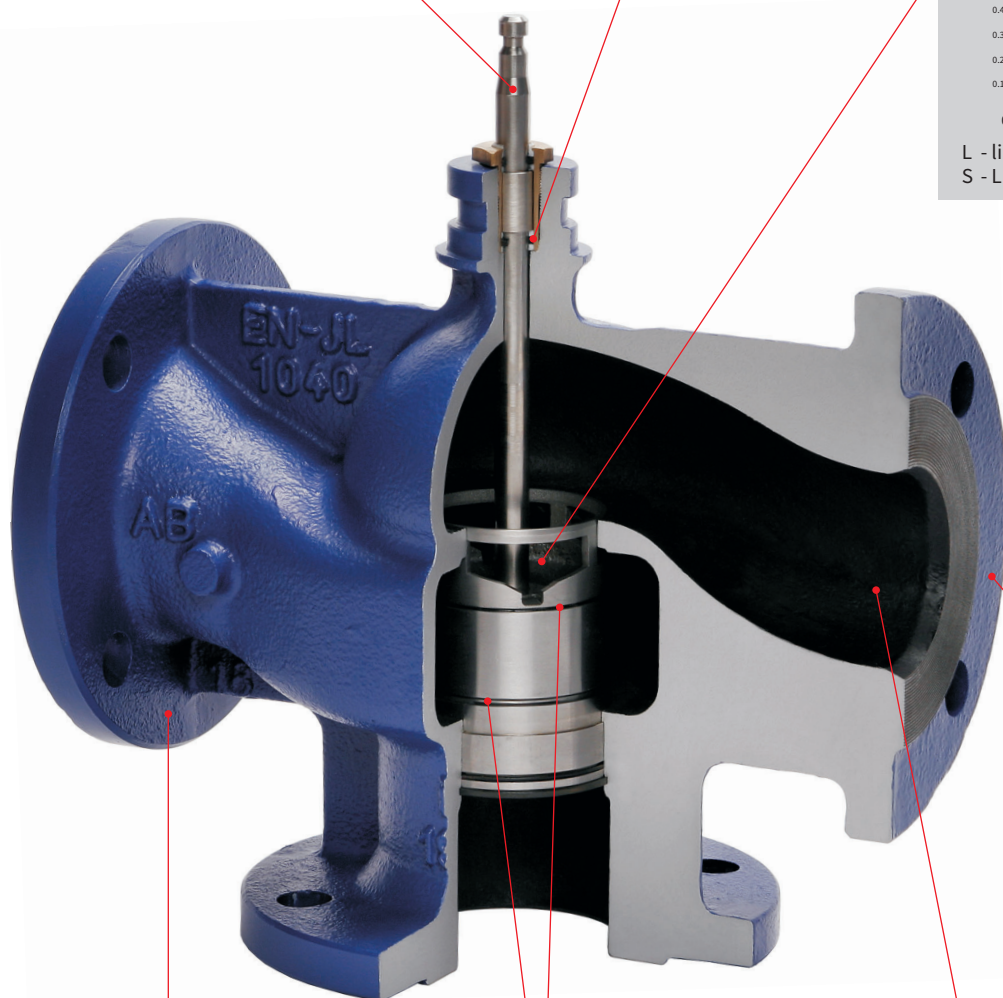
- 2 to 150°C
 - Life-time more than 500 000 cycles
- Sophisticated design enables long-time
tightness with no necessary maintenance

Flow characteristics

LDMspline® in straight way,
linear in angle way



L - linear characteristic
S - LDMspline® characteristic



Body material

- Grey cast iron EN-JL1040
- Spheroidal cast iron EN-JS1025

EPDM seat sealing

- Tightness in both ways
- Leakage rate $< 0,0005\%$ Kvs

Flow properties

Hydraulically contoured channels in the valve
enable high values of Kvs even with low
stroke values of the valve

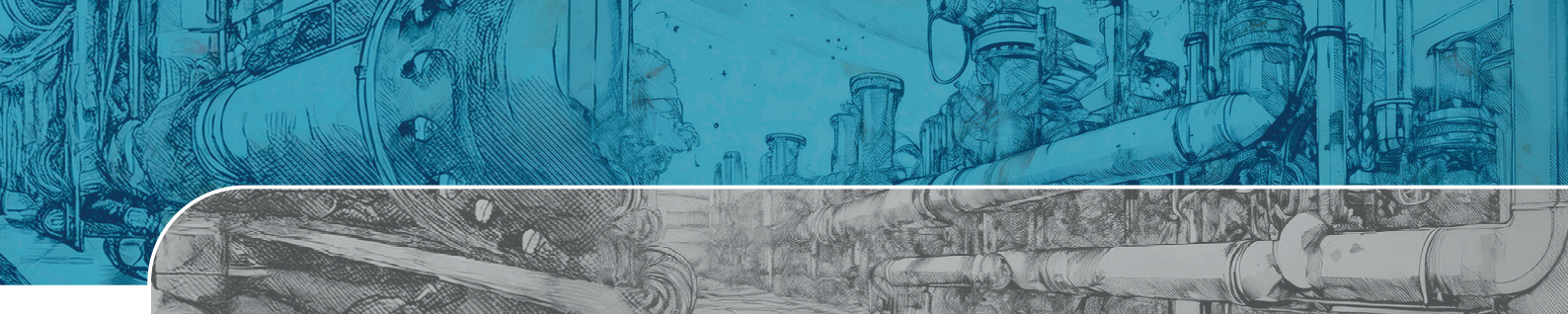
Version



Two-way



Three-way





Type	Series		Description	For the following actuators:
Control valve	RV 113 R RV 113 L		Two-way, reverse, with raised-face flanges	LDM, Siemens, Belimo, Ekorex+, Regada
	RV 113 M RV 113 S		Three-way, reverse, with raised-face flanges	LDM, Siemens, Belimo, Ekorex+, Regada

BEE line (RV 122)

DN 15 to 50, PN 25, $t_{\max} = 150^{\circ}\text{C}$, range of Kvs: 0,16 to 40 m³/h

Actuator connection

RV 122 R



RV 122 P



RV 122 L



RV 122 T



- Push connection without connector link. Simple installation by mounting the actuator and tightening the sleeve nut.

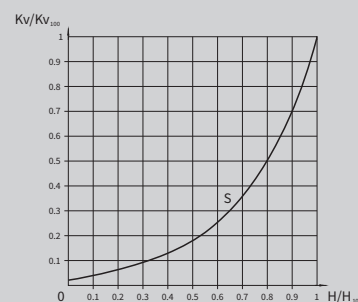
All actuator options are self-adapting

- Push-pull connection with connector link

Packing - O-ring EPDM

- 2 to 150°C
- Service life more than 1 000 000 cycles

Flow characteristic



S - LDMspline® characteristic

Control function variants

Control valve



Control valve with flow restrictor



Flow restrictor can be used as a separate closing element

Pressure-balanced plug
with soft sealing (EPDM)

Connection

Threaded coupling



Weld unions



Flange PN 25

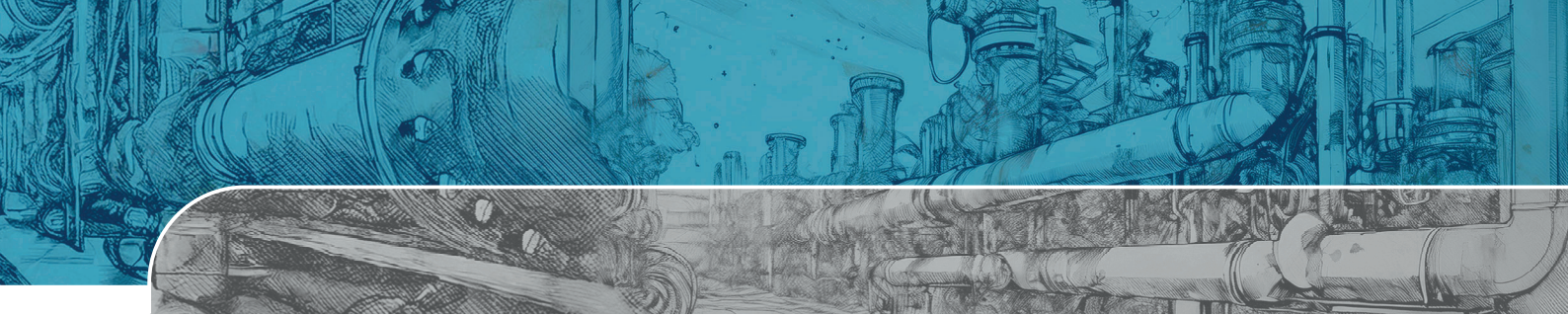






Body material

- Spheroidal cast iron EN-JS1030

Seat leakage rate

< 0.0005 % Kvs



Type	Series		Description	For the following actuators:
Control valve	RV 122 R		Two-way, pressure-balanced, direct	LDM
	RV 122 L		Two-way, pressure-balanced, direct	Controlli, Siemens
Control valve	RV 122 P		Two-way, pressure-balanced, direct, with flow restrictor	LDM
	RV 122 T		Two-way, pressure-balanced, direct, with flow restrictor	Controlli, Siemens

BEE line (RD 12x)

DN 15 to 50, PN 25, $t_{\max} = 150^{\circ}\text{C}$ (180°C), range of Kvs: 0,63 to 32 m³/h

Connection

Threaded coupling



Weld unions



Flange PN 25



Control function variants

RD 122 D
Differential pressure regulator



RD 122 P
Differential pressure regul. with restrictor



RD 122 V
Output pressure regulator



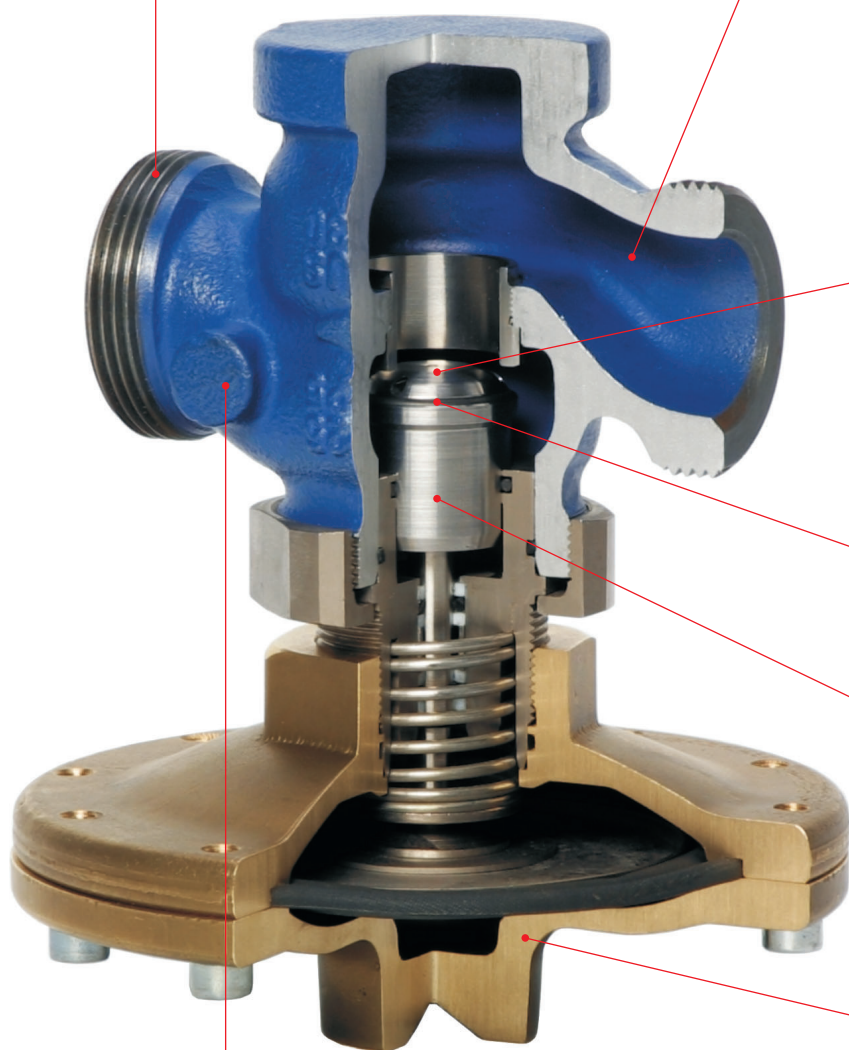
RD 123 R
Bypass valve



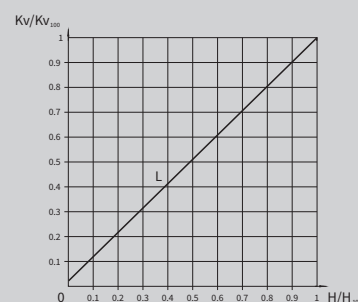
RD 123 S
Input pressure regulator



Flow restrictor can be used as a separate closing element



Flow characteristic



L - linear characteristic

Soft sealing plug - seat
(tight in closed position)

Pressure-balanced plug

Version of controlling head

With constant differential pressure



With adjustable differential pressure



Pressure range:
• RD 122... 10 to 1000 kPa
• RD 123... 30 to 1000 kPa

Version up to 180°C

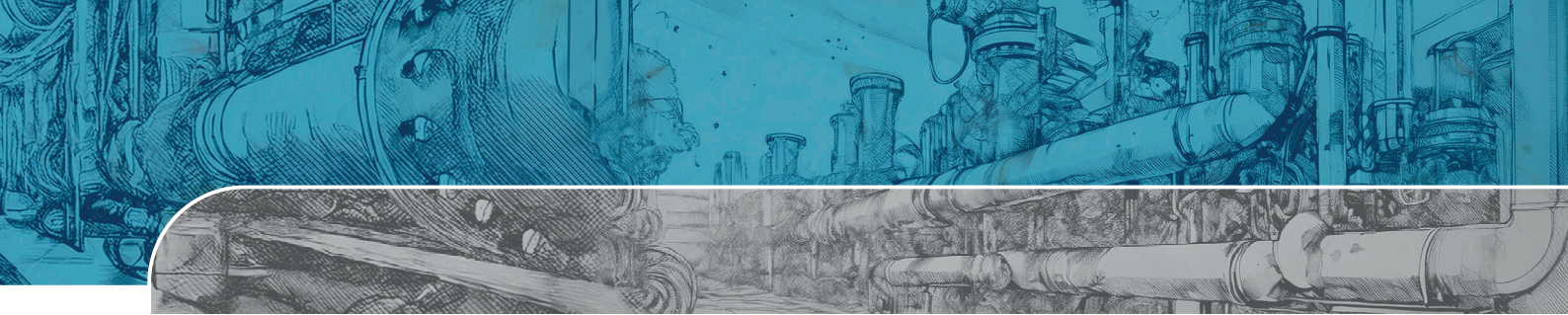
Cooling condensate well








- Impulse pipeline with condensate well
- Sealing for higher temperature

Body material

- Spheroidal cast iron EN-JS1030



Type	Series		Description	Actuation:
Pressure regulator	RD 122 D		Self-acting regulator of differential pressure	Medium flow controlled by pressure difference (closes with increasing Δp)
Pressure regulator	RD 122 P		Self-acting regulator of differential pressure with flow restrictor	Medium flow controlled by pressure difference (closes with increasing Δp)
Pressure regulator	RD 122 V		Self-acting regulator of output pressure	Medium flow controlled by output pressure (closes with increasing output pressure)
Pressure regulator	RD 123 R		Self-acting bypass valve	Medium flow controlled by pressure difference (opens with increasing Δp)
Pressure regulator	RD 123 S		Self-acting regulator of input pressure	Medium flow controlled by input pressure (opens with increasing input pressure)

BEE line (RT 122)

DN 15 to 50, PN 25, $t_{\max} = 150^{\circ}\text{C}$ (180°C), range of Kvs: 0,63 to 32 m³/h

Connection

Threaded coupling

Weld unions

Flange PN 25



Version

RT 122 R
Temperature regulator



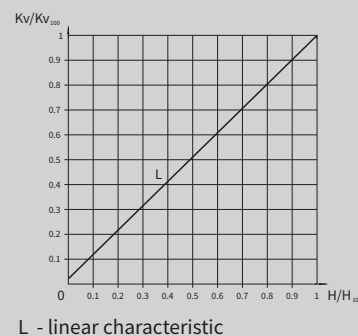
RT 122 P
Temper. regulator with flow restrictor



Body material

- Spheroidal cast iron EN-JS1030

Flow characteristic



Soft sealing plug - seat
(tight in closed position)

Pressure-balanced plug

Thermostatic head

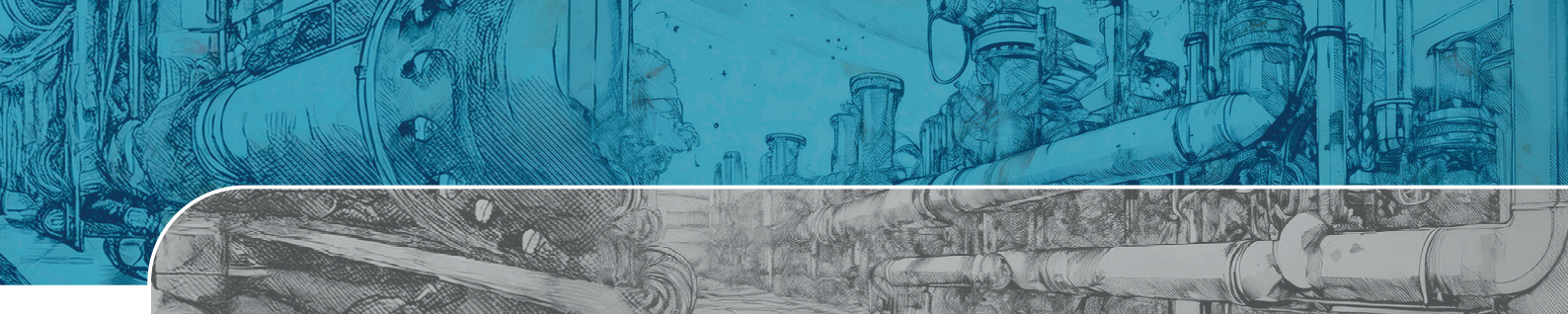
Optional ranges:



- 0 - 35°C
- 25 - 70°C
- 40 - 100°C
- 50 - 120°C
- 70 - 150°C

Temperature sensor

Version:

- Without thermowell
- With thermowell - copper
- With thermowell - CrNiMo steel



Type	Series		Description	Actuation:
Temperature regulator	RT 122 R		Self-acting temperature regulator	Thermostatic head with temperature sensor
Temperature regulator	RT 122 P		Self-acting temperature regulator with flow restrictor	Thermostatic head with temperature sensor

UV x16, UV 200

DN 15 to 400, PN 16, 25 and 40, $t_{max} = 400^{\circ}\text{C}$ (550°C), range of Kvs: 4,3 to 1800 m³/h

Non-rising hand wheel

- For version 22x and 23x

Enables the valve usage at tight spaces due to its yoke design that enables a safe operation even at high temperatures of process medium

Low linear force

Sizes DN 150 and higher in B and V execution are equipped with pressure balanced plug with pilot system

Well-marked indicator

Ensures an easy identification of actual position of the valve

Packing

Graphite	PTFE (GORE DP)	Bellows with safety packing
		

- Graphite UV xx6 ... 0 to 400°C
UV 2x7 ... 0 to 550°C
- PTFE (GORE DP) 0 to 260°C
- Bellows with safety packing -60 to 550°C

Bellows packing ensures a hermetic tightness of the valve to outer environment. Bellows is equipped with a safety tube which protects the bellows against damage during operation caused by effects of medium flow, abrasion and erosion.

Spiral-wound gasket of a bonnet

Type UV 2x7 only

Plug version



The valve tightness

- Leakage rate class BN1 acc. to DIN 3230
Guaranteed tightness in closed position is "0"
Wide choice of seat / plug material (type UV 2x7 only)

Body material

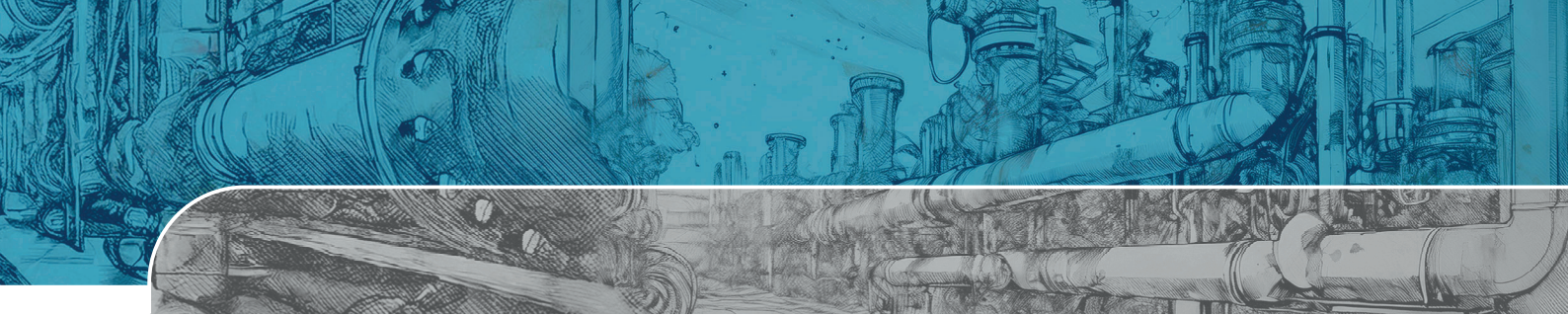
116	Grey cast iron EN-JL1040	2 to 300°C
216	Spheroidal cast iron EN-JS1025	2 to 350°C
22x	Cast steel 1.0619	-10 to 400°C
23x	Stainless steel 1.4581	-10 to 550°C
		The other materials -60 to 550°C








Plug protection against vibrations

Plug is guided throughout the stroke travel with a guide tube and is pressed against the stoppage when the valve is fully open

Back seat

The valves with graphite packing are equipped with back seat enabling packing replacement without draining off the piping system



Type	Series		Description	For the following actuators:
Shut-off valve	UV 2x6 R UV 2x7 R		Two-way, straight-through, with bellows DN 15 to 150 PN 16, 25 and 40	Hand wheel
	UV 2x6 V UV 2x7 V		Two-way, straight-through, pressure-balanced plug with bellows DN 150 to 400 PN 16, 25 and 40	Hand wheel
	UV 2x6 S UV 2x7 S		Two-way, straight-through DN 15 to 150 PN 16, 25 and 40 Graphite packing	Hand wheel
	UV 2x6 B UV 2x7 B		Two-way valve, straight-through with pressure-balanced valve DN 150 to 400 PN 16, 25 and 40 Graphite packing	Hand wheel
	UV 2x6 G UV 2x7 G		Two-way, straight-through DN 15 to 150 PN 16, 25 and 40 PTFE (GORE DP) packing	Hand wheel
	UV 116		Two-way, straight through DN 15 to 300 PN 16 Graphite packing	Hand wheel
	UV 216		Two-way, straight-through DN 15 to 200 PN 25 Graphite packing	Hand wheel

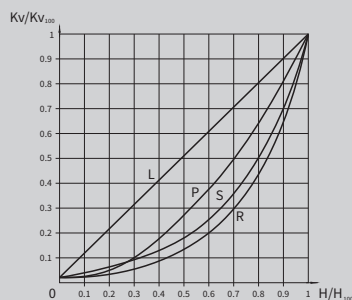
200 line (RV/HU/UV 2xx)

DN 15 to 600, PN 16, 25 and 40, $t_{max} = 500^{\circ}\text{C}$, range of Kvs: 0,01 to 4000 m³/h

Connection to the following actuators

Siemens, Johnson Controls, Honeywell, Belimo, Auma, Schiebel, Rotork, Flowserve, A.Hock, PS Automation, ZPA Nová Paka, Ekorex+, ZPA Pečky, Regada, LDM, hand wheel

Flow characteristics



L - linear characteristic
R - equal-percentage characteristic
P - parabolic characteristic
S - LDMspline® characteristic

Design

- Direct function
- Reverse function

Packing types

O - ring EPDM	DRSpack®	Graphite	Bellows

- EPDM 0 to 140°C, service life more than 500 000 cycles
- DRSpack® (PTFE), 0 to 260°C, service life more than 700 000 cycles
- Graphite 0 to 500°C
- Bellows -50 to 500°C, service life minimum 10 000 to 100 000 cycles in dependence to medium temperature

Body material

- Spheroidal cast iron EN-JS1025 -10 to 300°C
- Cast steel 1.0619 -10 to 400°C
- CrMo steel 1.7357 -10 to 500°C
- Stainless steel 1.4581 -10 to 400°C
- Nickel alloy MONEL -50 to 400°C

Seat sealing

Metal - metal	Soft sealing metal - PTFE	Stellited sealing surfaces

- < 0.1 % of Kvs with metal - metal seat sealing
- < 0.01 % of Kvs with metal - PTFE seat sealing

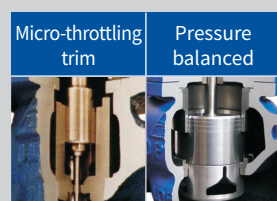
Version

Two-way	Three-way

Flange faces

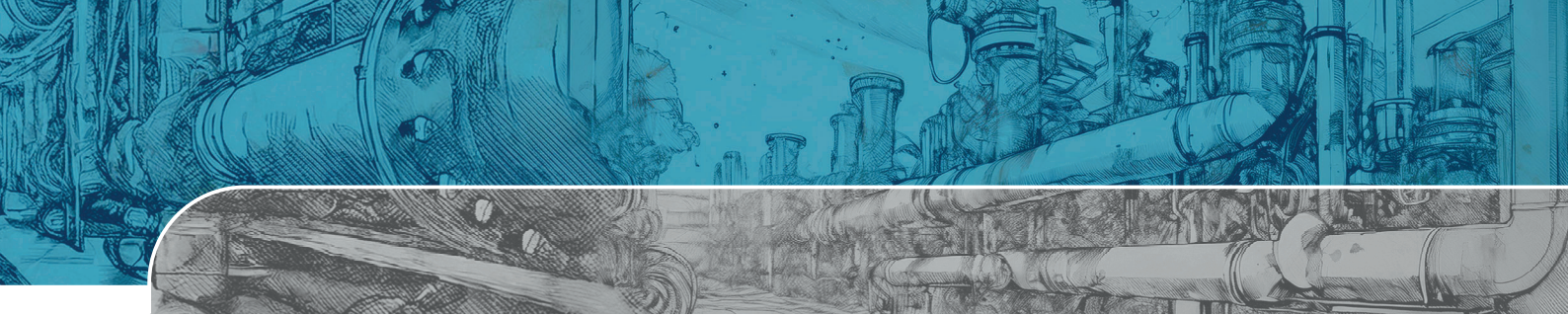
- Acc. to EN 1092-1
- Raised-face flanges type B1
- Female flanges type F
- Flange with groove type D










Plug types



L Linear	R Equal-percentage	S LDMspline®	P Parabolic	D Linear perforated	Q Equal-percentage perforated	Z Parabolic perforated

Plug types: • contoured, • V-ported, • perforated, • micro-throttling trim
All types of V-ported and perforated plugs available also in pressure-balanced version



Type	Series		Description	For the following actuators:
Control valve	RV 2x0		Two-way, direct DN 15 to 400; PN 16, 25 and 40	ZPA Nová Paka, Ekorex+, Johnson Controls, Auma, Schiebel, Rotork, Flowserve, A.Hock, PS Automation, ZPA Pečky, Regada, hand wheel
	RV 2x1		Two-way, reverse DN 15 to 150; PN 16 and 40	Siemens, Johnson Controls, PS Automation, Honeywell, Belimo, LDM
	RV 2x2		Two-way, pressure-balanced (for higher differential pressures), direct DN 25 to 600; PN 16, 25 and 40	ZPA Nová Paka, Ekorex+, Johnson Controls, Auma, Schiebel, Rotork, Flowserve, A.Hock, PS Automation, ZPA Pečky, Regada, hand wheel
	RV 2x3		Two-way, pressure-balanced (for higher differential pressures), reverse DN 25 to 150; PN 16 and 40	Siemens, PS Automation, Honeywell, Belimo, LDM
	RV 2x4		Three-way, direct DN 15 to 300; PN 16, 25 and 40	ZPA Nová Paka, Ekorex+, Johnson Controls, Auma, Schiebel, Rotork, Flowserve, A.Hock, PS Automation, ZPA Pečky, Regada, hand wheel
	RV 2x5		Three-way, reverse DN 15 to 150; PN 16 and 40	Siemens, PS Automation, Honeywell, Belimo, LDM
Fail-safe action valve	HU 2x1		Two-way, reverse DN 15 to 150; PN 16 and 40	Siemens, PS Automation, Honeywell, Belimo, LDM
	HU 2x3		Two-way, pressure-balanced (for higher differential pressures), reverse DN 25 to 150; PN 16 and 40	Siemens, PS Automation, Honeywell, Belimo, LDM
Shut-off valve	UV 2x0		Two-way, shut-off, direct DN 15 to 400; PN 16, 25 and 40	ZPA Nová Paka, Ekorex+, Johnson Controls, Auma, Schiebel, Rotork, Flowserve, A.Hock, PS Automation, ZPA Pečky, Regada, hand wheel

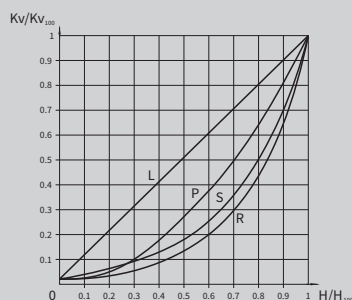
200 line (cv/sv 2xx)

NPS 1/2" to 10", Class 150, $t_{max} = 550^{\circ}\text{C}$ (1020°F), range of Cv: 0,012 to 950 US Galon/min

Connection to the following actuators

Auma, Schiebel, Rotork, Regada, Flowserve, A.Hock, hand wheel

Flow characteristics



L - linear characteristic
R - equal-percentage characteristic
P - parabolic characteristic
S - LDMspline® characteristic

Design

- Direct function

Packing types



- DRSpack® (PTFE), 0 to 260°C (32 to 500°F), service life more than 700 000 cycles
- Graphite 0 to 550°C (32 to 1020°F)
- Bellows -50 to 550°C (-58 to 1020°F), service life minimum 10 000 to 100 000 cycles in dependence to medium temperature

Body material

- Cast steel A216 WCB -29 to 425°C (-20 to 797°F)
- CrMo steel A217 WC6 -29 to 550°C (-20 to 1020°F)
- Stainless steel A351 CF8M -50 to 550°C (-58 to 1020°F)

Seat sealing



- < 0.1 % of Cv with metal - metal seat sealing
- < 0.01 % of Cv with metal - PTFE seat sealing

Version

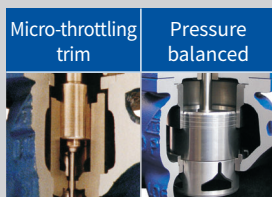
Two-way



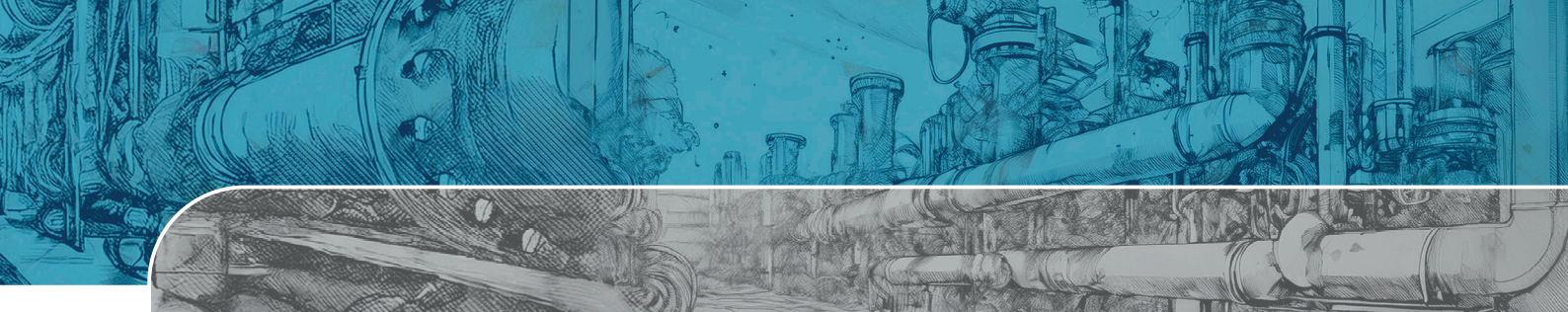
Flange faces




- Acc. to ASME B16.5
- RF (Raised Face)
 - LFF (Large Female Face)
 - SFF (Small Female Face)
 - LGF (Large Groove Face)
 - SGF (Small Groove Face)

Plug types



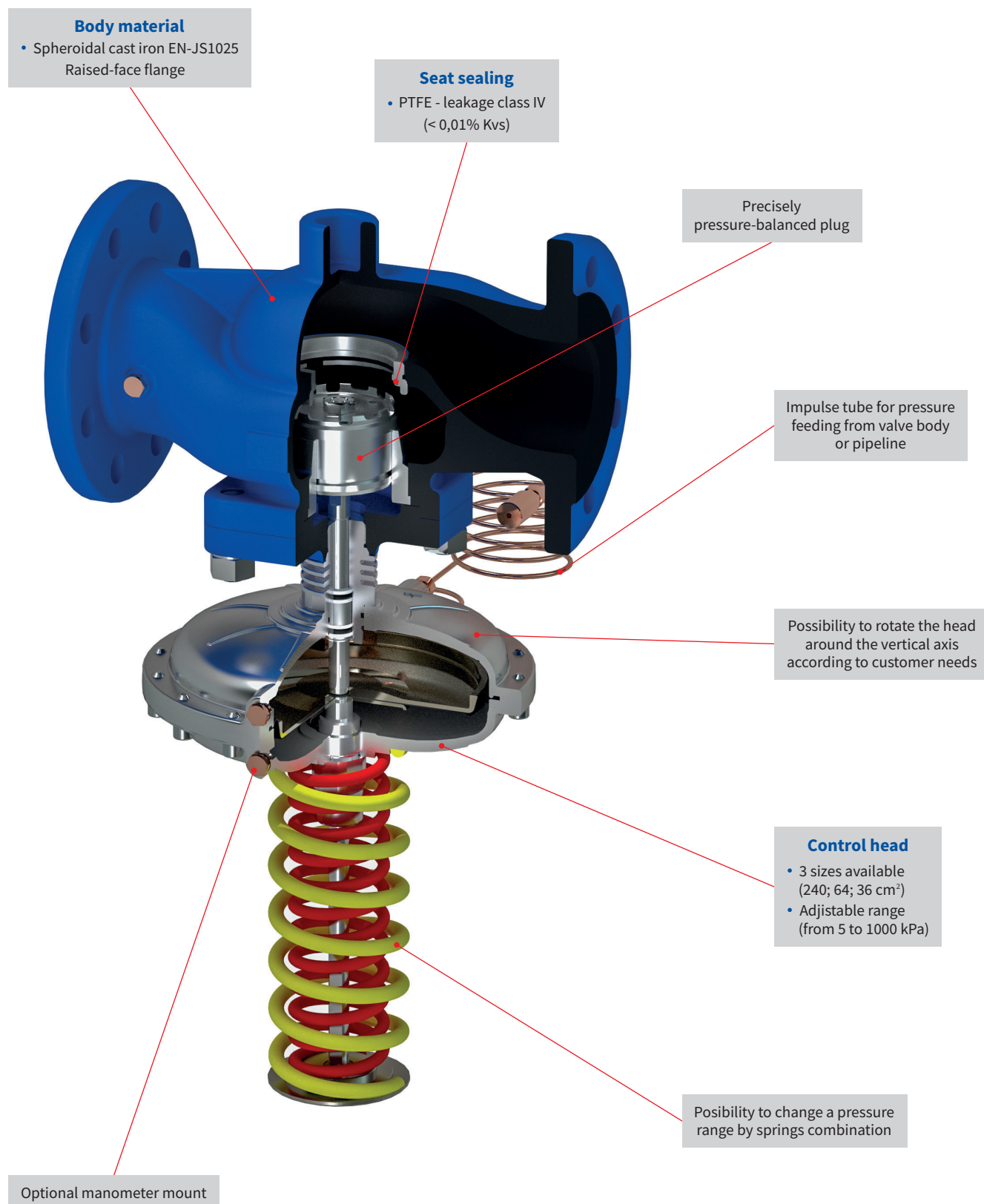
Plug types: • contoured, • V-ported, • perforated, • micro-throttling trim
All types of V-ported and perforated plugs available also in pressure-balanced version

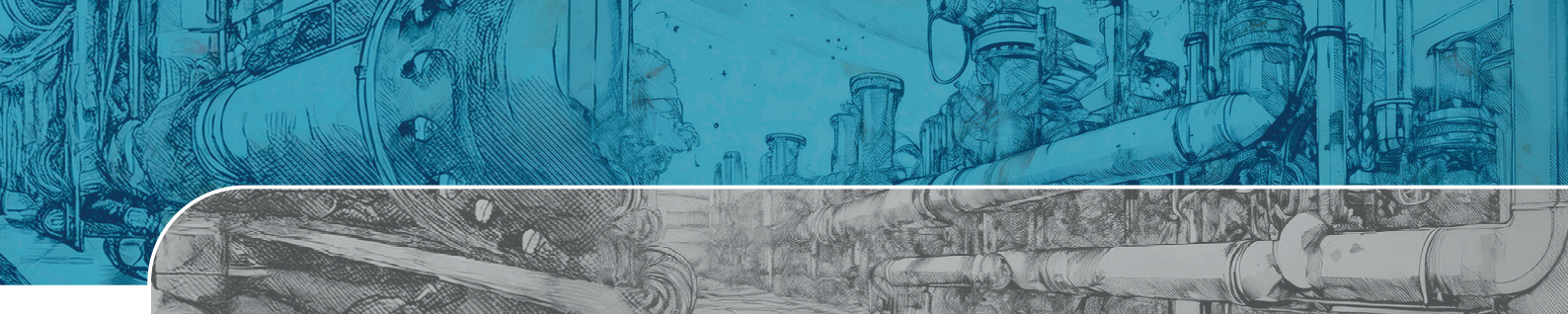







Type	Series		Description	For the following actuators:
Control valve	CV 2x0		Two-way, direct NPS 1/2" to 10"; Class 150	Auma, Schiebel, Rotork, Regada, Flowserve, A.Hock, hand wheel
	CV 2x2		Two-way, pressure-balanced (for higher differential pressures), direct NPS 1" to 10; Class 150	Auma, Schiebel, Rotork, Regada, Flowserve, A.Hock, hand wheel
Shut-off valve	SV 2x0		Two-way, shut-off, direct NPS 1/2" to 10"; Class 150	Auma, Schiebel, Rotork, Regada, Flowserve, A.Hock, hand wheel

200 line (RD 21x)

DN 65 to 150, PN 16 and 25, $t_{\max} = 180^{\circ}\text{C}$, range of Kvs: 72 to 235 m^3/h





Type	Series		Description	Actuation:
Pressure regulator	RD 212 D		Self-acting regulator of differential pressure	Medium flow controlled by pressure difference (closes with increasing Δp)
Pressure regulator	RD 212 P		Self-acting regulator of differential pressure with flow restrictor	Medium flow controlled by pressure difference (closes with increasing Δp)
Pressure regulator	RD 212 V		Self-acting regulator of output pressure	Medium flow controlled by output pressure (closes with increasing output pressure)
Pressure regulator	RD 213 R		Self-acting bypass valve	Medium flow controlled by pressure difference (opens with increasing Δp)
Pressure regulator	RD 213 S		Self-acting regulator of input pressure	Medium flow controlled by input pressure (opens with increasing input pressure)

Check valves

DN 15 to 300, PN 16, 25 and 40, $t_{max} = 400^{\circ}\text{C}$, range of Kvs: 4,3 to 1460 m^3/h

Spiral-wound gasket of a bonnet

Type ZV 2x7 only

Valve function

Self acting mechanism ensures flow of the medium only in selected direction

Design of closure element

- Choice of design with or without spring
- Spring design ensures better function under condition of vibrations in pipeline

Valve version

ZV 2xx P; T

ZV 2xx E; F

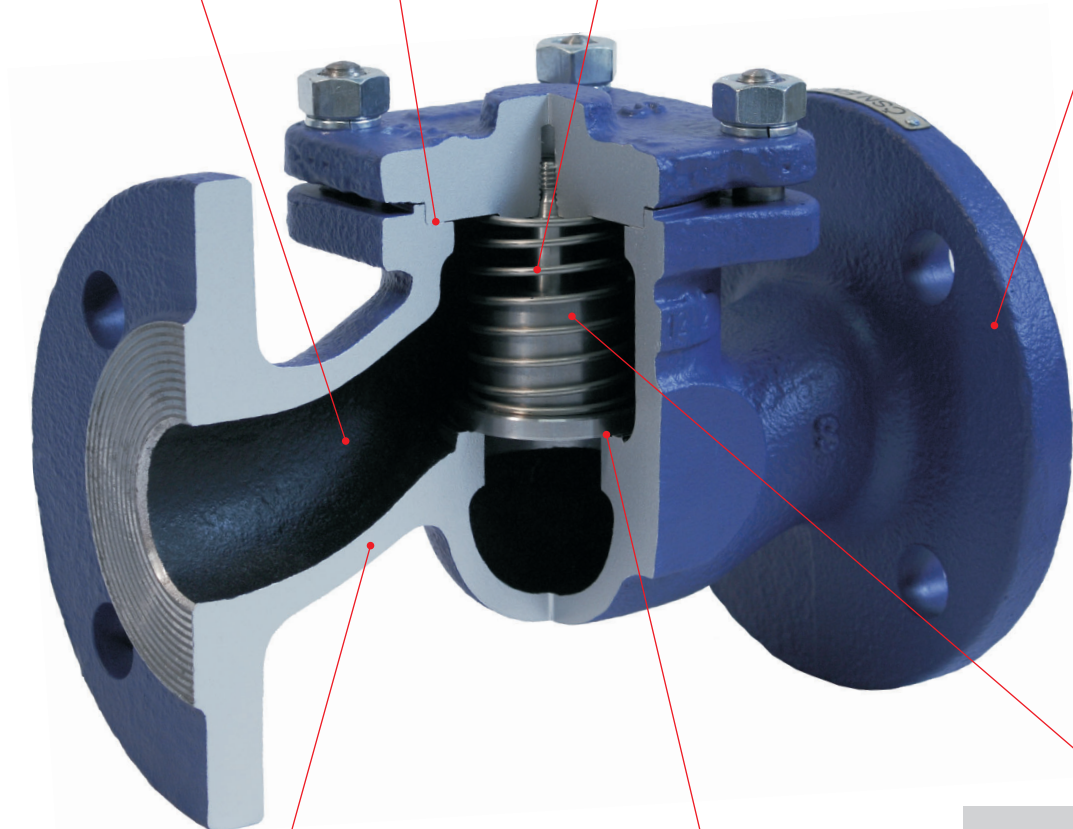


Check valve ZV 2xx P; T

- ensures basic function of backward closure

Shutt-off & check valve ZV 2xx E; F

- equipped with hand wheel and bellows
- ensures hermetic tightness



Tightness

High tightness of each product is tested by air on the test stand
Wide choice of seat / plug material (type ZV 2x7 only)

Plug type

Disc type



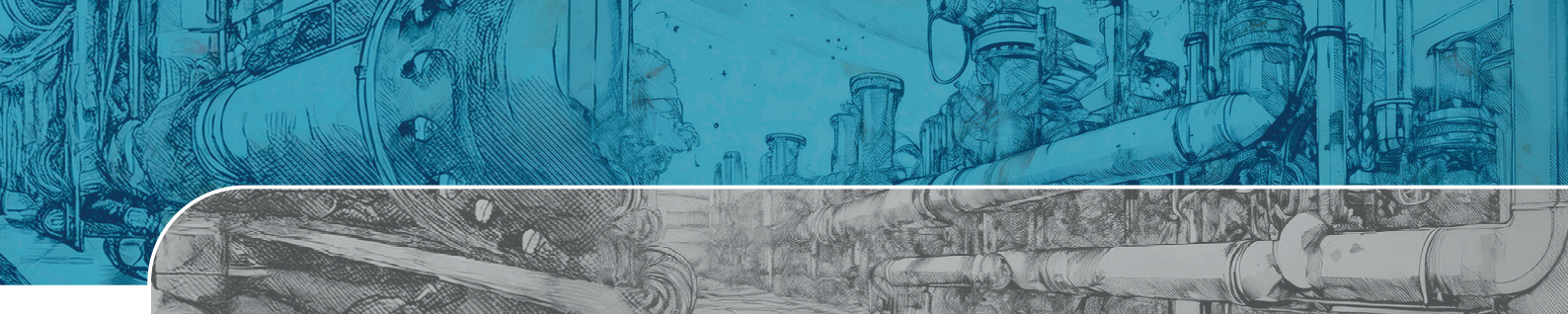
- Inner parts made of high quality stainless steel





Body material


116	Grey cast iron EN-JL1040	2 to 300°C
216	Nodular cast iron EN-JS1025	2 to 350°C
22x	Cast steel 1.0619	-10 to 400°C
23x	Stainless steel 1.4581	-10 to 400°C

Process media

Water, steam and other common gas and liquid non-aggressive media



Type	Series		Description	Actuation:
Check valve	ZV 116		Self-acting check valve DN 15 to 300 PN 16 and 25	Medium flow controlled by pressure difference
	ZV 216		Self-acting check valve DN 15 to 300 PN 16 and 25	Medium flow controlled by pressure difference
	ZV 2x6 P; T ZV 2x7 P; T		Self-acting check valve DN 15 to 200 PN 16, 25 and 40	Medium flow controlled by pressure difference
	ZV 2x6 E; F ZV 2x7 E; F		Shutt-off & check valve DN 15 to 200 PN 16, 25 and 40	Medium flow controlled by pressure difference and hand wheel

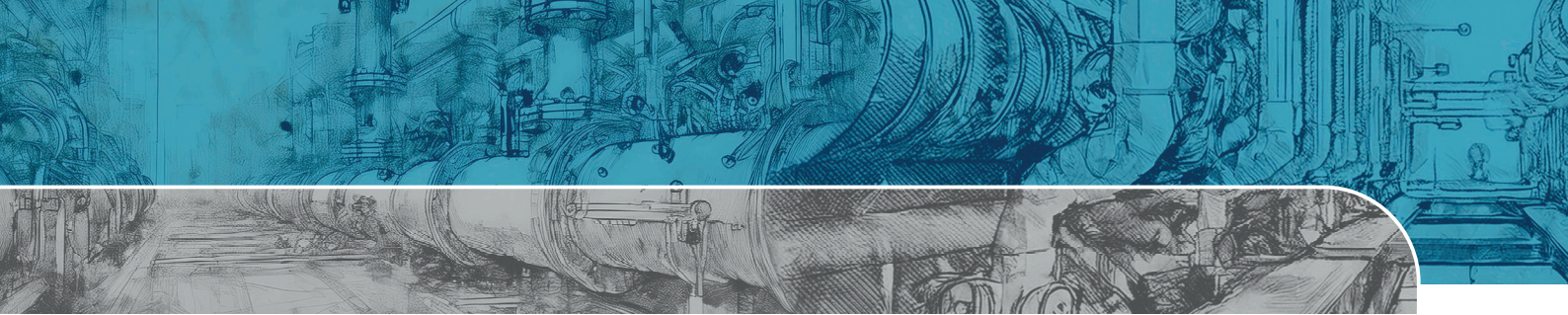


Notes

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



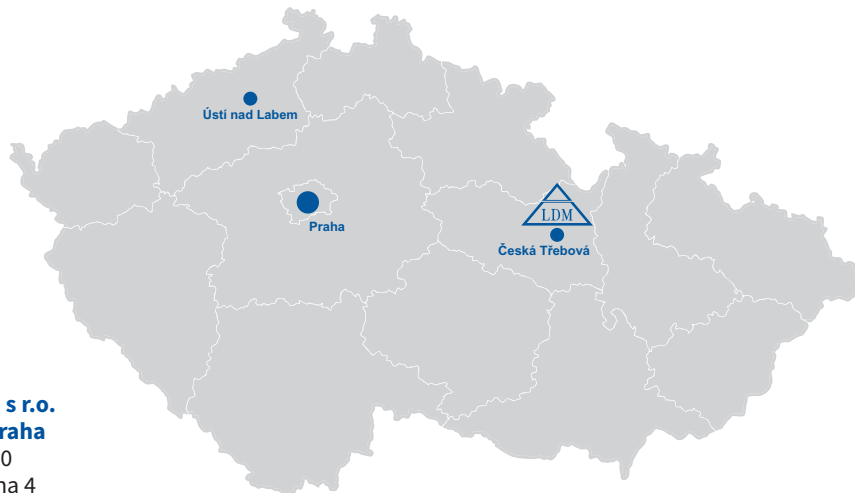
www.ldmvalves.com



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