



HP-PNEUMATICS

Traditional Valves



Manual Shut-Off and Check Valves

PN 64 - DN 15, 25

PN 350 - DN 8

Type

HAV 15, HAV 25

HAV 08



Pressure Maintaining and Pressure Maintaining Check Valves

PN 60/350 - DN 16

PN 400 - DN 5

Type

DHV 16/12

DHV 05, DRV 05



Safety Valves

PN 350 - DN 6

PN 40 - DN 30/15

Type

SVE 06

SVE 30/15



Safety Devices

PN 64 – DN 20

PN 200 – DN 10

Type

SHE 06

SHE 20

Pressure Reducing Valves

PN 200 – DN 8

PN 40 – DN20

Type

DMV 08

DMV 20

Systems and Cartridge Technology



Cartridge Program Directional, Sluice Valves

PN 400 – DN 6

PN 250 – DN16

Type

WEV 06

WEV 16



Gas Dryer

PN 350bar

Q 1000L/min /1400L/min

Q 1100-3300L/min

Type

GTR 10, GTR 14

GTF



HAND OPERATED VALVES TYPE HAV

Hand operated valves of the Series HAV provide leakfree operation for high pressure pneumatic or water service. Their robust construction and special adjustable spindle-sealing allow operation under extreme conditions with a very long lifespan. The valves can accept flow in both directions.

Product Range:

NG 8mm PN 350bar

NG 15mm PN 64bar

NG 25mm PN 64bar

Accessories:

Reduction from NG 15 to NG 10 with outside-screw thread M18 x 1.5

Tube fitting connection to Gal. ZN 1201 DIN 50961

Options please find at datasheet DE11.3

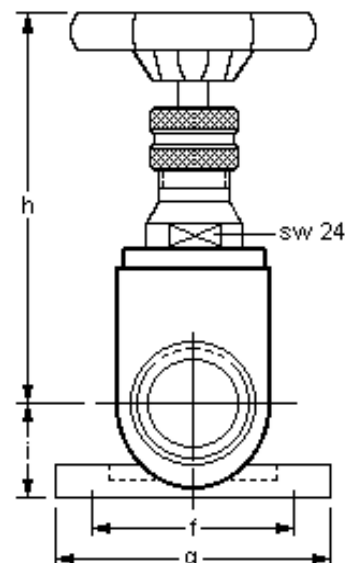
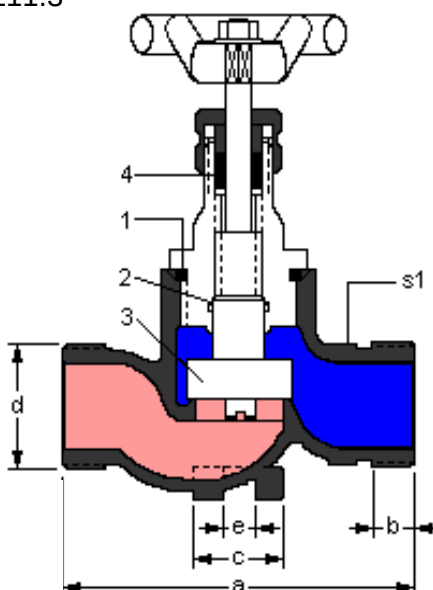


Ordering Information:

HAV15-Productno.

HAV25-Produktno.

■ = low pressure
■ = high pressure



Type	DN	Productno.	Socket *	Vent	a	b	c	d	e	l	g	h	i	S1	D Pipe	Mass Kg
HAV	15	160523			80	9	-	M26x1,5	-	-	-	112	19	24	15/18	0,55
HAV	15	160525*	X		80	9	17	M26x1,5	8	44	60	112	19	24	15/18	0,59
HAV	15	160524		X	80	9	-	M26x1,5	-	-	-	112	19	24	15/18	0,55
HAV	15	160526*	X	X	80	9	17	M26x1,5	8	44	60	112	19	24	15/18	0,59
HAV	25	160527			105	12	-	M36x2	-	-	-	113	25	36	25/28	0,89
HAV	25	160528		X	105	12	-	M36x2	-	-	-	113	25	36	25/28	0,89

* on request

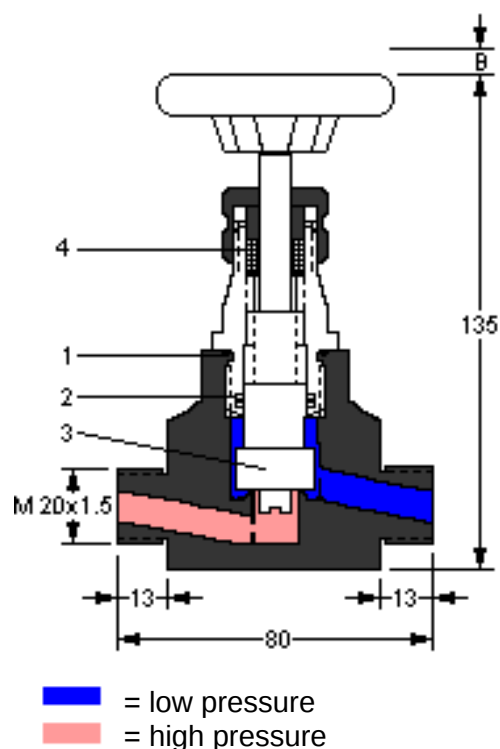


HAND OPERATED VALVES TYPE HAV

Ordering Information HAV08-504242

ND 8mm PN 350bar

Productno.: 504242



Spare Parts Kit

Consisting of:

Pos	name
1	O-ring
2	U-ring
3	disk
4	Seal kit

Ordering Information

HAV15VTS-Productno.-92

HAV25VTS-Productno.-92

HAV08VTS-504242-92

Accessories

HAV 08

Tube fitting connection per

Gal. ZN 1201 DIN 50961 for tube D = 8/10mm

Order no.: **HAV 08 EO**

HAV 15

Tube fitting connection per

Gal. ZN 1201 DIN 50961 for tube D = 15/18mm

Order no.: **HAV 15 EO**

Reduction M26x1,5 to M18x1,5 male thread

Order no.: **HAV 15 RED10**

HAV 25

Tube fitting connection per

Gal. ZN 1201 DIN 50961 for tube D = 25/28mm

Order no.: **HAV 25 EO**

Options please find at datasheet DE1.1.3



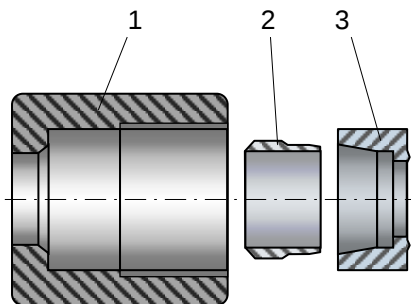
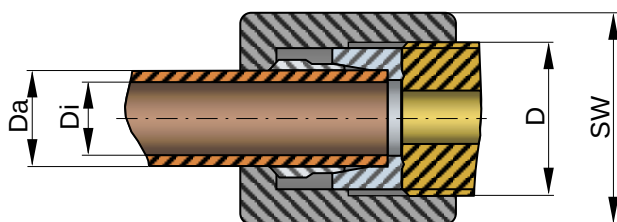
VERSCHRAUBUNGEN FITTINGS

Stossverschraubungen erleichtern den Aus- und Einbau von Ventilen in Rohrleitungen. Nach dem Lösen der Überwurfmutter können die Ventile aus dem Rohrleitungssystem herausgenommen werden ohne die vorhandenen Leitungen zu demontieren. Die Verschraubungen werden aus St A3C gefertigt und können für Ventile des Typs HAV, RSV, DHV, DHR und DRV verwendet werden.

Serienmäßig werden unsere Ventile mit den jeweiligen Standard Stossverschraubungen gemäß Datenblatt ausgeliefert. Darüber hinaus können aber auch Sonderverschraubungen für andere Rohrdurchmesser geliefert werden.

The use of breakaway fittings allows an easy assembling and de assembling of valves in an piping system. After unscrewing the Nuts it is possible to move the valve out of the piping system without deinstalation of any pipes. All parts are produced from galvanized steel St A3C and will be used at valves type HAV, RSV, DHV, DHR and DRV.

Our valves include standard breakaway fittings according to the individual datasheets. Optional it is possible to order fittings for other pipe diameters.



Stoßverschraubungen /Breakaway Fittings								
Type	12	10	12	15	18	22	25	28
Teilenr. / Partsno.	852525	852508	852505	852502	852526	852511	852513	852527
Druck / Pressure	400bar	400bar	400bar	100bar	100bar	100bar	250bar	100bar
Da	12mm	10mm	12mm	15mm	18mm	22mm	25mm	28mm
Di	8mm	7,5mm	9,5mm	12,5mm	15mm	19,5mm	21,5mm	25mm
D	M20 x 1,5	M26 x 1,5	M26 x 1,5	M26 x 1,5	M26 x 1,5	M36 x 2	M36 x 2	M36 x 2
SW	24mm	32mm	32mm	32mm	32mm	41mm	46mm	41mm
1. Mutter / Nut	080786	852510	852507	852504	080788	852512	505896	080790
2. Schneidring / Cut Ring	080794	080793	080794	163574	080795	080797	505897	080798
3. Druckring / Pressure Ring	080801	852509	852506	852503	080802	850267	851500	080805
Einsetzbar für Teilenummer (Datenblatt)	504242 (D/E1.1.2)	160523 (D/E1.1.1) 160524 (D/E1.1.1) 60535 (D/E1.2) 160540 (D/E1.3.5)				160527 (D/E1.1.1) 160528 (D/E1.1.1) 160537 (D/E1.2) 159784 (D/E1.2) 451263 (D/E1.3.1)		
Usable for Partno. (Datasheet)	159423 (D/E1.2) 504270 450050 (D/E1.3.1) 851714 851716 (D/E1.3.6)							



NON RETURN VALVES TYPE RSV

PN 64

DN 15 und DN 25

Includes EO tube fittings

Gal. ZN 1201 DIN 50961

Options please find at datasheet DE1.1.3

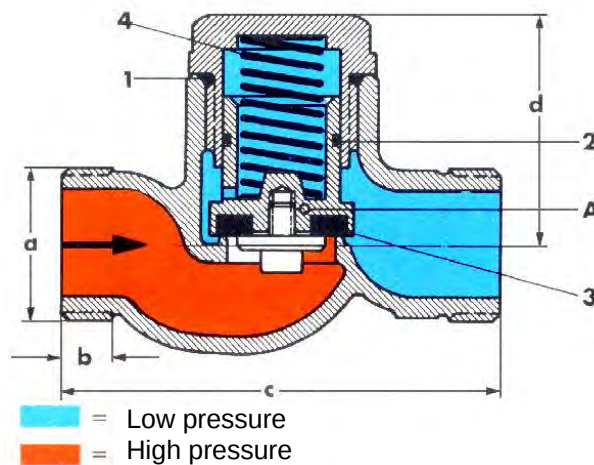


DN	Seat	a	b	c	d	Mass Kg	Partno.
15	soft	M26 x 1,5	9	80	60	0,4	160535
25	soft	M36 x 2	12	105	58	0,5	160537

Ordering Information

RSV-Productno.

Opening pressure 2bar



PN 100

DN 16 und DN 25

Includes EO tube fittings

Gal. ZN 1201 DIN 50961

Options please find at datasheet DE1.1.3

DN	Thread connection	length	Partno.
10	M 20 x 1,5/PN200	80	195423
25	M 36 x 2/PN100	85	159784

Ordering Information

RSV-Productno.





PRESSURE MAINTAINING VALVES TYPE DHV, DRV

Pressure Maintaining and Pressure Maintaining Check Valves series DHV and DRV are mounted between the condenser and the compressed air vessel. These valves maintain a constant pressure at the condenser and help to facilitate water separation from the air.

The higher the pressure at the valve, the better the water-separation.

Their robust construction allows their use under extreme conditions with a very long lifespan.



Ordering Information Pressure Maintaining Valves

- DHV16-35-451263** ND16mm PN 15-60bar
- DHV12-330-451262** ND12mm PN 30-350bar
- DHV05-350-504270** ND 5mm PN 60-350bar
- DHV05-66-504270-02** ND 5mm PN 15-70bar
- DHV05-395-504270-04** ND 5mm PN 300-400bar

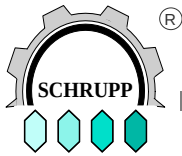
Ordering Information Pressure Maintaining Check Valves

- DRV05-345-450050** ND 5mm PN 60-350bar
- DRV05-69-450050-02** ND 5mm PN 15-70bar

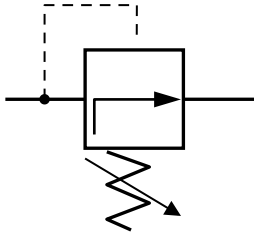
└ Adjusted set pressure with delivery [bar]



Technical Data	DHV 05	DRV 05	DHV 12	DHV 16	
Flow rate with 5bar dp	-	-	750	1500	l/min
with 10bar dp	160	160	2500	5000	l/min
with 15bar dp	-	-	4600	9200	l/min
with 220bar dp	3500	3500	-	-	l/min
Minimum pressure difference	10	10	5	5	bar
Max. operating pressure	350	350	350	60	bar
Pressure range	15-350	15-350	30-350	15-60	bar
Mass	1	1,8	12	12	Kg
Housing material	MS	MS	MS	MS	
Seals	Buna-N	Buna-N	Buna-N	Buna-N	
Tube-connection size	12	12	20	28	mm
Options please find at datasheet DE1.1.3					

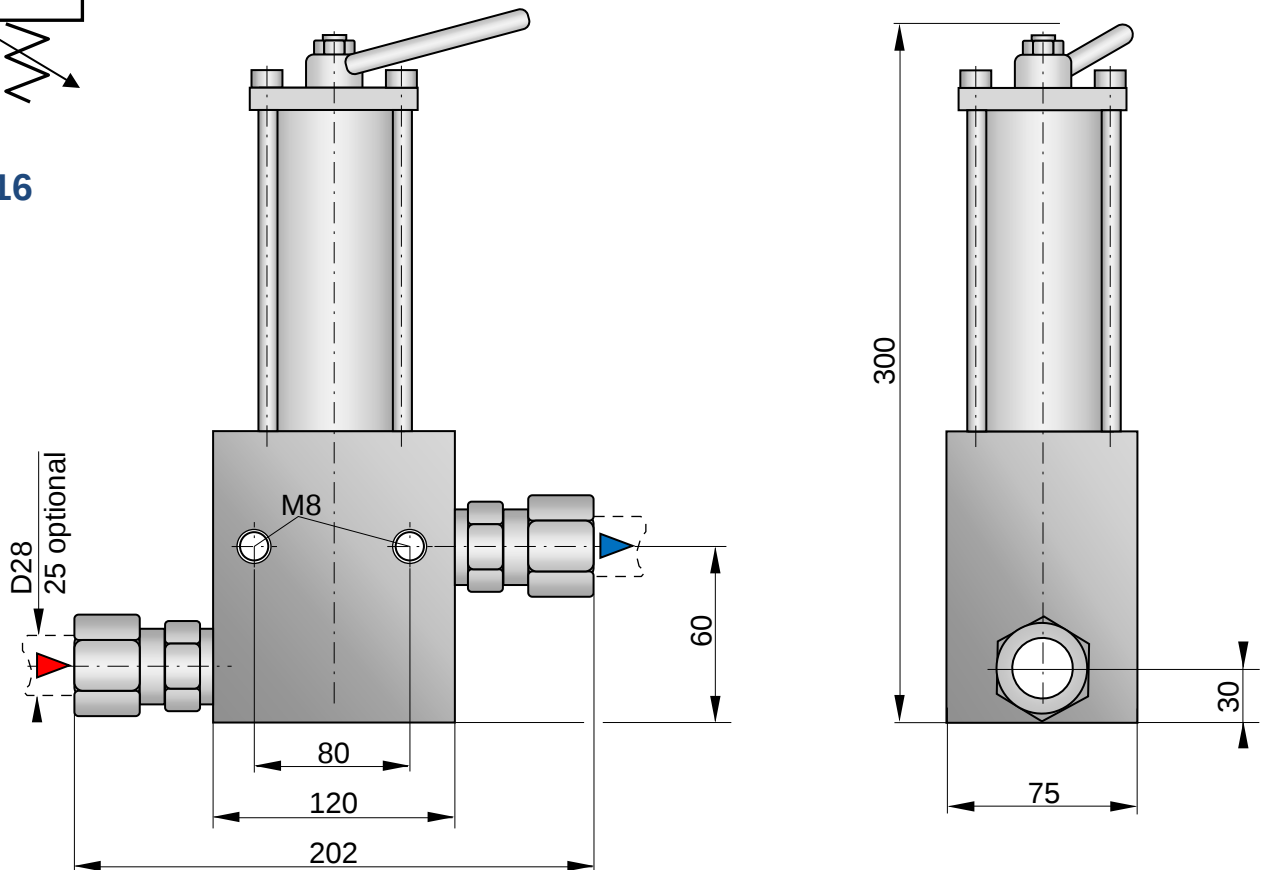


PRESSURE MAINTAINING VALVES TYPE DHV, DRV

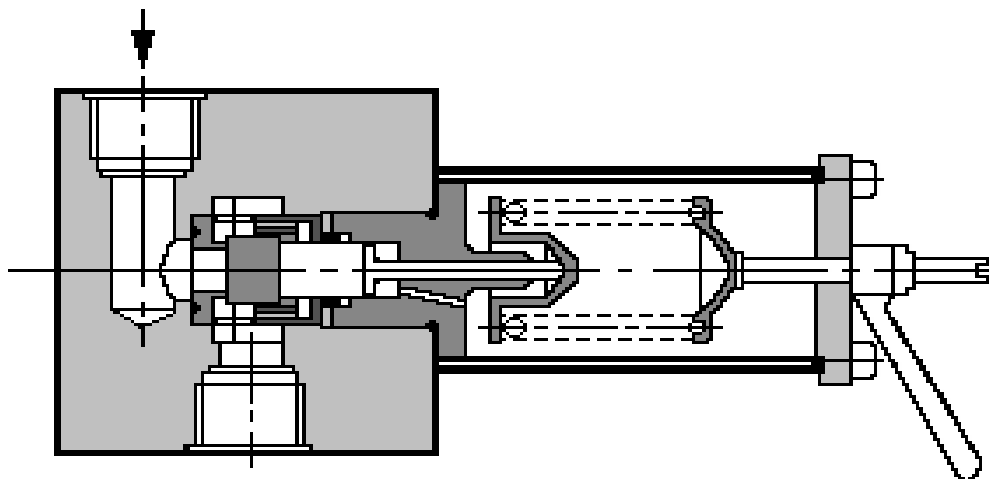


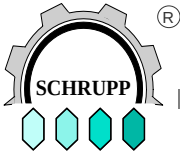
Opening Pressure Adjustment

DHV16

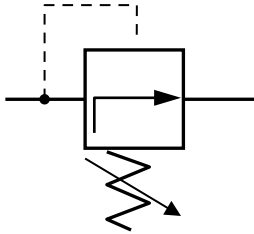


Order no. Seal Kit: DHV16VTS-451263-92



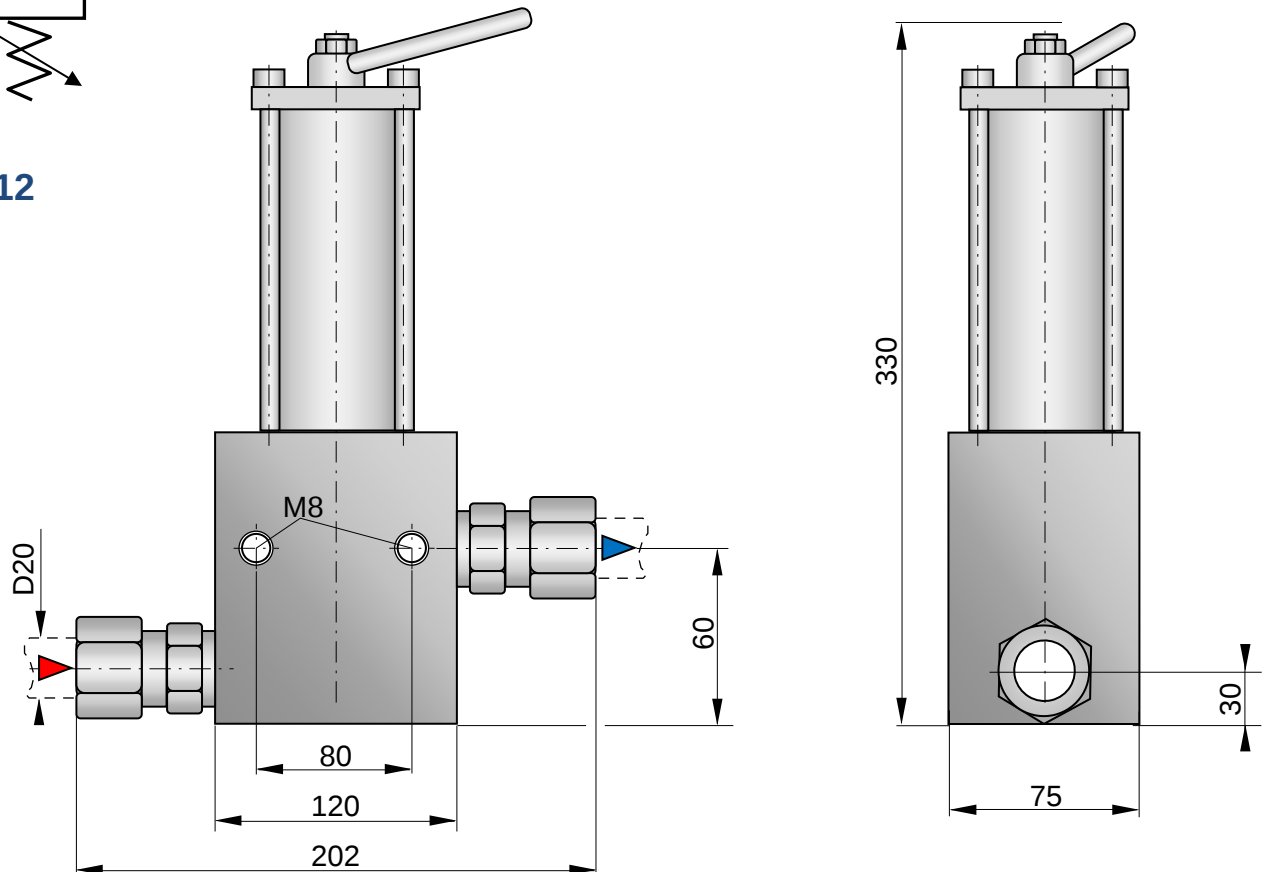


PRESSURE MAINTAINING VALVES TYPE DHV, DRV

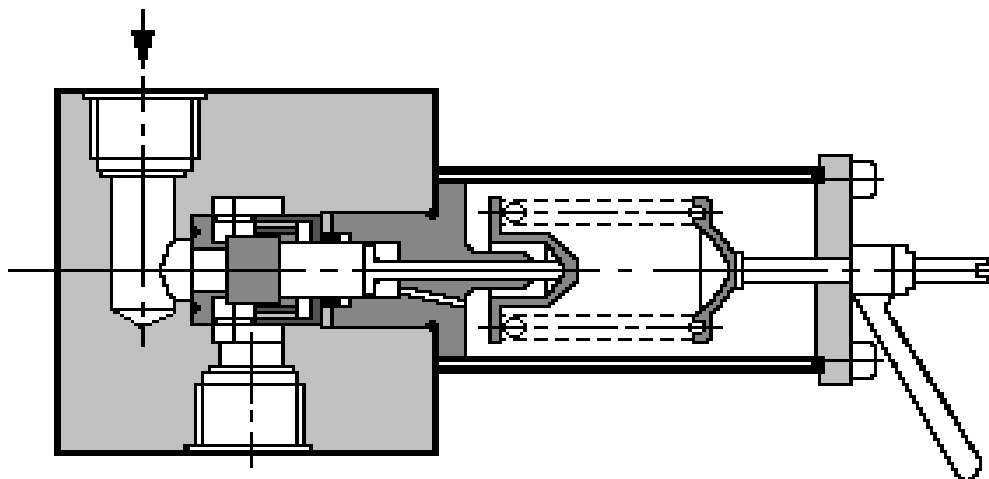


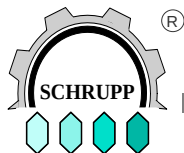
Opening Pressure Adjustment

DHV12



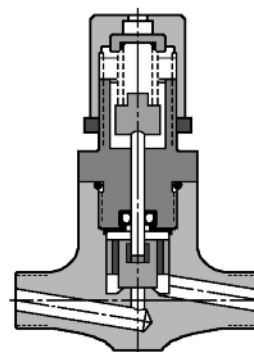
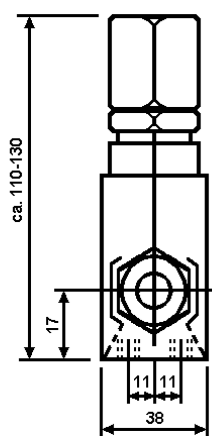
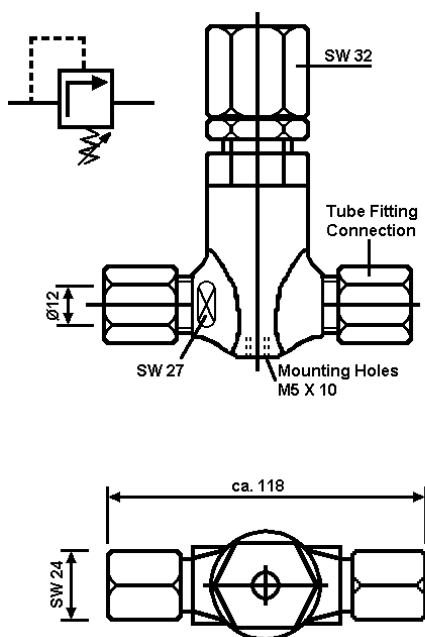
Order no. Seal Kit: DHV12VTS-451262-92





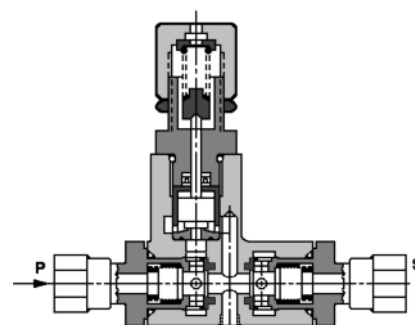
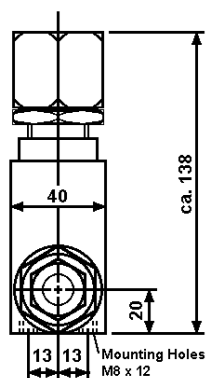
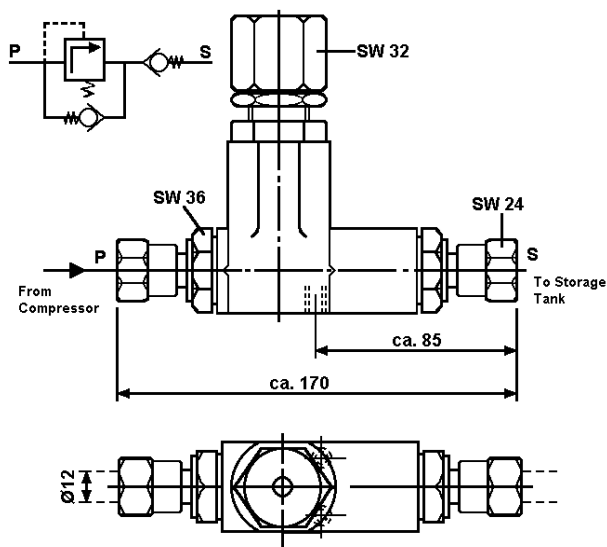
PRESSURE MAINTAINING VALVES TYPE DHV, DRV

DHV 05



Ordering Information
Spare Parts Kit:
DHV05VTS-504270-92

DRV 05



Ordering Information
Spare Parts Kit:
DRV05VTS-450050-92

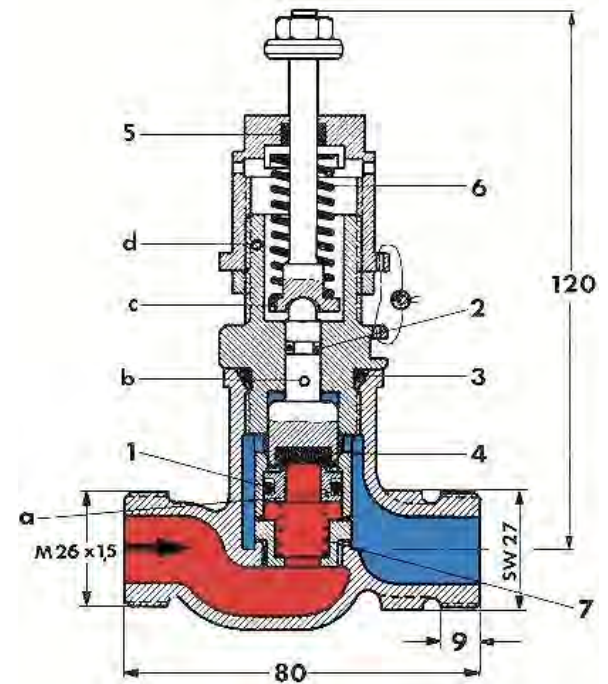
PRESSURE MAINTAINING VALVES TYPE DHV, DRV

Pressure Maintaining Valves are mounted between the condenser and the compressed air vessel. These valves maintain a constant pressure at the condenser and help to facilitate water separation from the air.

The higher the pressure at the valve, the better the water-separation.

Pressure Maintaining Valve includes EO fittings Gal. Zn 1201 DIN 50961

Options please find at datasheet DE1.1.3



Mass 5kg

Max operating pressure 45 bar

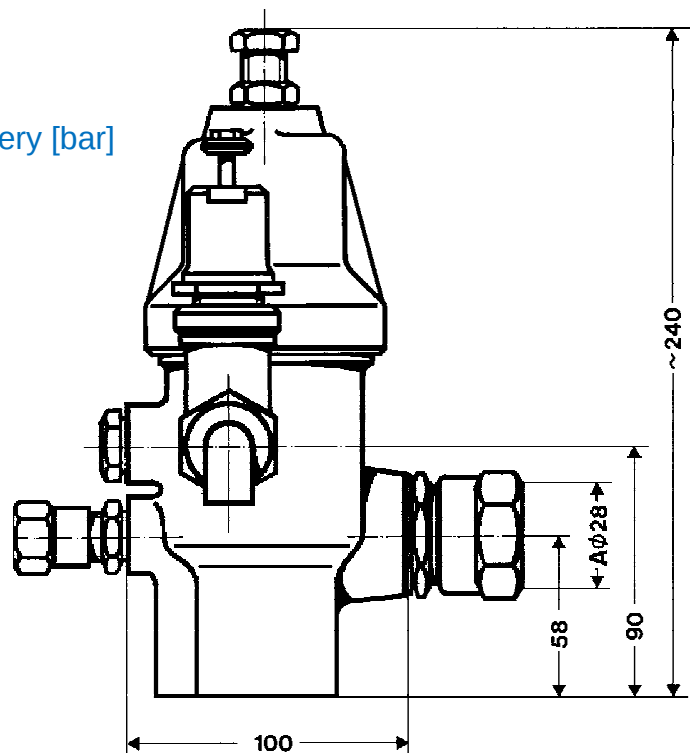
Soft seat

Ordering code: DHV08-12-160540

Adjusted set pressure with delivery [bar]

Example:

Valve combination DMV 08 and DHV 06. This combination can be used to reduce a pressure in a system and to protect the secondary circuit against overpressure.





PRESSURE MAINTAINING VALVES TYPE DHV, DRV

Pressure Maintaining Check Valves Type DHR05 include an Pressure Maintaining Valve Type DHV05 and an check valve. This combination is an economical option to individual piped valves. DHR valves are available with different ports so that they can be easily adapted to existing systems.

Pressure Maintaining Check Valves series DHR are mounted between the condenser and the compressed air vessel. These valves maintain a constant pressure at the condenser and help to facilitate water separation from the air.

As higher the pressure at the valve is, as better the water-separation.

Their robust construction allows their use under extreme conditions with a very long lifespan.



Ordering Information

DHR05-280-851714 Pressure Maintaining Check Valve with connections for pipes outside dia 12mm (Options please find at datasheet DE1.1.3)

DHR05-320-851741-01 DHR, Inlet: for pipe outside dia 12mm, Outlet: G 3/8" female port

RSV05-350-851716 Check Valve inlet: DHV connection port, outlet: for pipe outside dia 12mm (Options please find at datasheet DE1.1.3)

RSV05-185-851716-01 Check Valve inlet: DHV connection port, outlet: G 3/8" female port

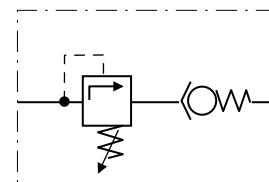
└ Adjusted set pressure with delivery [bar]

Technical Data

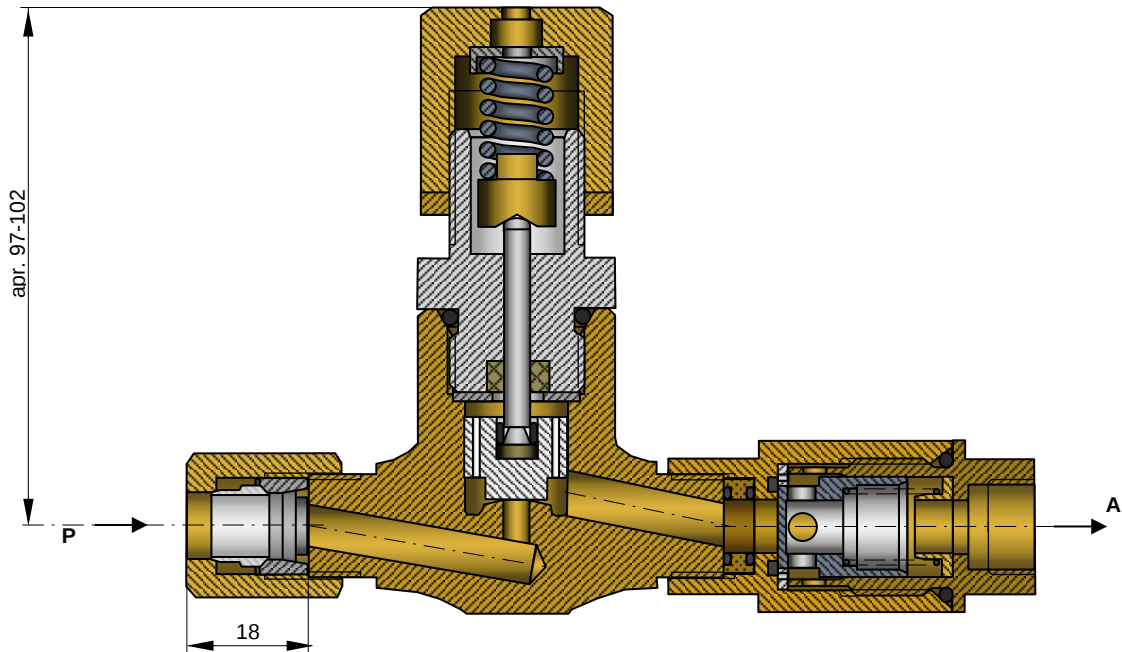
DHR 05

Flow rate at 10 bar dp	160	l/min
at 220bar dp	3500	l/min
Medium	compr.air	others on request
Min pressure drop	10	bar
Max. operating pressure	350	bar
Adjustment	15-350	bar
Mass	15	N
Housing material	MS	
Seals	Buna-N	

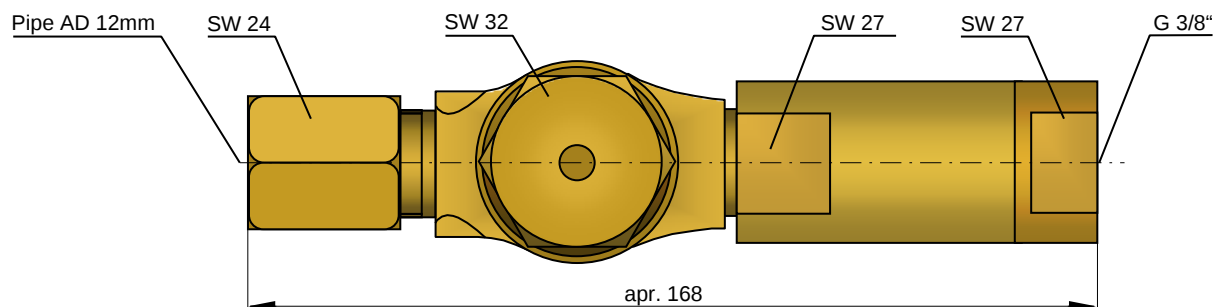
Functional Diagram



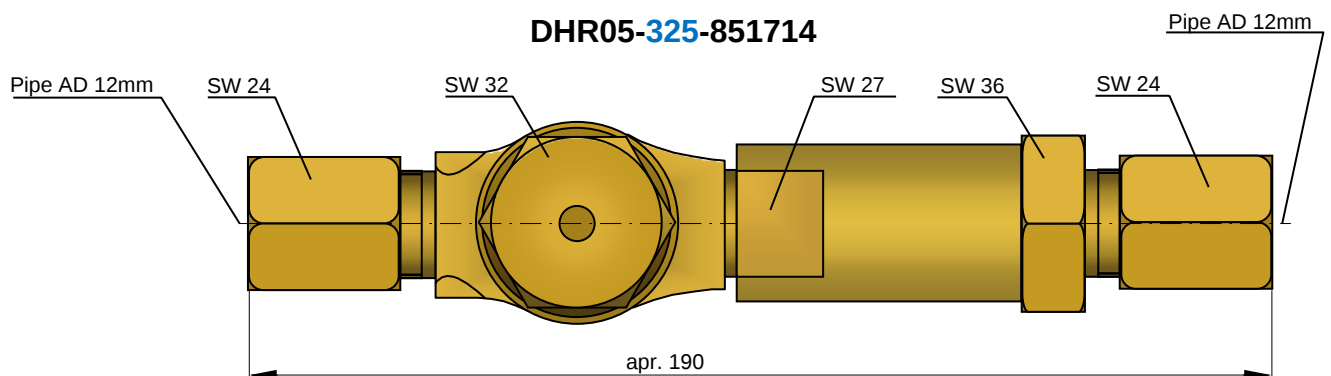
PRESSURE MAINTAINING VALVES TYPE DHV, DRV



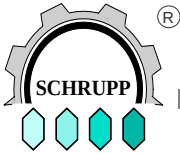
DHR05-340-851714-01



DHR05-325-851714



Adjusted set pressure with delivery [bar]



SAFETY VALVES TYPE SVE 06



SAFETY VALVE TYPE V600 ORDERING NO SVE 06 - 087202

Application: Schrupp safety valves type SV06-1 and SV06-2 are spring loaded valves designed to protect compressors from over-pressurization.

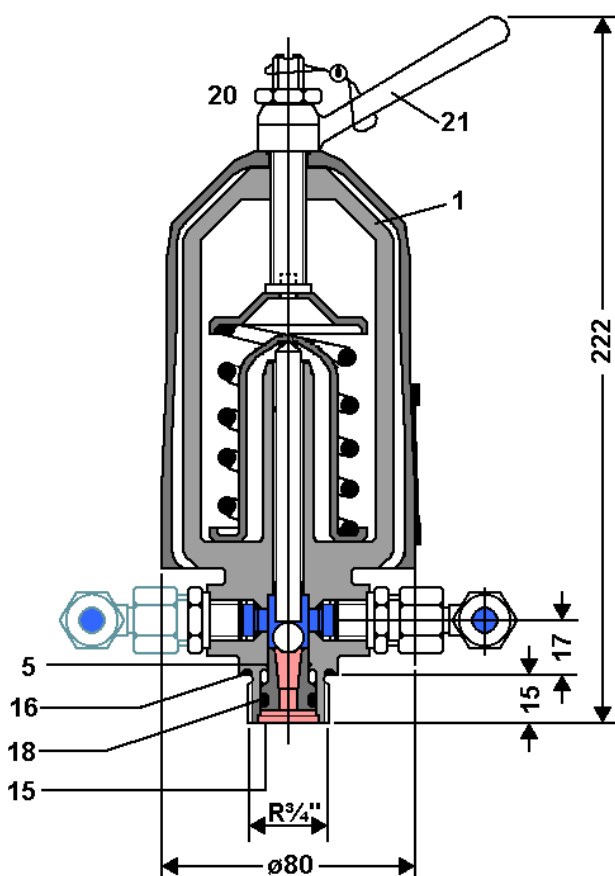
Schrupp proportional safety valves can also be used to protect pressure vessels containing non-poisonous gases.

- Special characteristics:** TUV approval up to 350 bar
Acc. to 214/68/EC gases Group 2, Category IV, Certificate according to Modul B (TÜV)
Low hysteresis and good operational control even under adverse conditions.
Compact dimensions
Robust design
Easy to maintain
- Technical Data:** Size: DN6
Operating Pressure: 55 -350bar
Flow rate in L/min: $32.2 \times p(\text{bar})$
Ambient Temperature: 0-70 degrees C.
Manufactured according to AD specification no. A2 for proportional safety valves.
- Notice:** Valves are shipped with plugged ports. Please remove before installation



SAFETY VALVES TYPE SVE 06

= Primärdruck
 = Sekundärdruck



Functional Description:

Port R is connected to the compressor or high pressure vessel. In the event of over-pressure, the ball lifts from the seat and bleeds pressure through the side outlet port. The elbow fittings can be arranged to send the air in any direction. To check valve function, turn lever #21 counter-clockwise to valve housing, #1. This test will not affect the pressure set point.

The set pressure can be adjusted by turning lever #21 after loosening locking nut #20. (Turn clockwise to increase pressure set point.) After adjustment, re-tighten locking nut #20. The valves do not require regular servicing. Periodically, tests are required. according to 2014/68/EC.

The valve can be ordered for different pressure adjustment ranges

SVE06 - 087201	adjust. pressure	55 - 66bar
SVE06 - 087199	adjust. pressure	66,1- 85bar
SVE06 - 087202	adjust. pressure	85,1-110bar
SVE06 - 087200	adjust. pressure	110,1-135bar
SVE06 - 087400	adjust. pressure	135,1-150bar
SVE06 - 087204	adjust. pressure	150,1-175bar
SVE06 - 087203	adjust. pressure	175,1-220bar
SVE06 - 160253	adjust. pressure	220,1-250bar
SVE06 - 087975	adjust. pressure	250,1-350bar

Ordering Information

SVE 06 - **345** - **087957**

Type

Set Pressure [bar]

Productno.

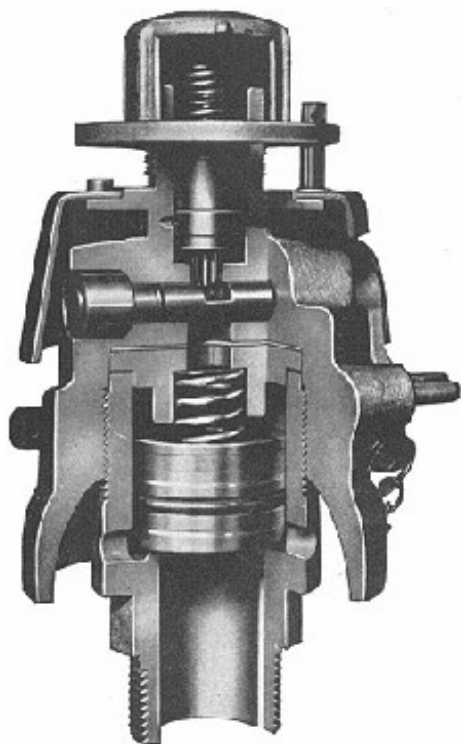
Ordering Information seal kit:

Part no.: SVE 06 VTS - 087400

Item 5 Seat
Item 15 O-Ring
Item 16 O-Ring
Item 18 Back Ring



SAFETY VALVES TYPE SVE 30 (POP OFF)



Safety Valves Type S650:

Ordering no. SVE 30

Application: The Schrupp SV30 safety valve is a spring loaded valve used to protect vessels containing non-toxic gases from over-pressurization. Upon reaching the set pressure, the valve opens fully and immediately.

Special Features:

TUV approval up to 44 bar acc. to 2014/68/EU gases Group 2, Category IV, Certificate according to Modul B (TÜV),

Low hysteresis and good operational control even under adverse conditions.

Compact dimensions

Robust design

Easy to maintain

Technical Data:

Nominal Size: DN 30 mm

Set pressure from 4.5 to 44 bar

Flow rate: 4750 x p in liter/min

Mass: approximately 3.2 kg

Ordering Information

SVE30 - **36** - **156148**

Adjusted Set
Pressure
[bar]

Ordering Information Seal Kit:

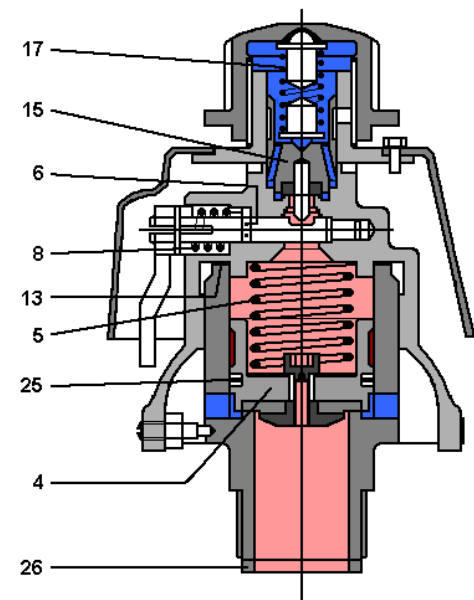
SVE30 VTS - **156148** - 92

Pressure Range[bar] / Productno.

4,5 - 6	089049
6,1 - 8	089060
8,1 - 13	089061
13,1 - 16	089062
16,1 - 21	089063
21,1 - 25	089064
25,1 - 35	089065
35,1 - 44	156148

SAFETY VALVES TYPE SVE 30 (POP OFF)

Maintenance and Operation:



■ = Primary Pressure
■ = Relieved Pressure

1. Shipping and Storage

During transportation or storage, the valve should be locked in the open position by use of the manual handle. All ports must be plugged. To open the valve, the lever should be moved against the spring force to the end position and fixed by the holding clamp.

2. Installation

On pressure vessels or pipes with minimum inside diameter of 1 inch. For installation, use only original seals; never use glue or other additional seal materials.

3. Adjustment of Set Pressure

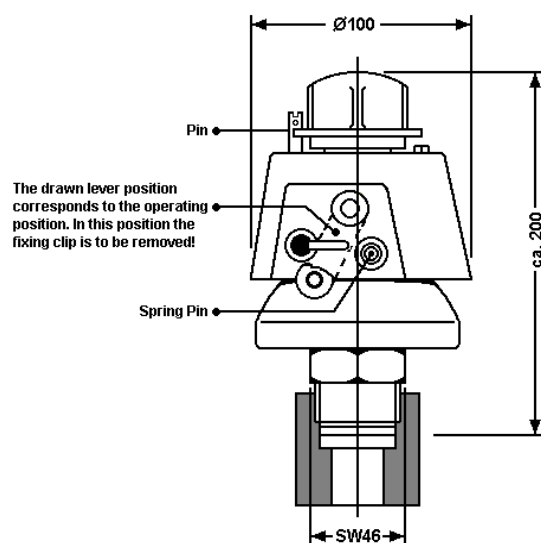
After removing the pin the set pressure can be changed, by turning the thread cap clockwise (increases set pressure) or counter-clockwise (reduces set pressure).

4. Noise protection

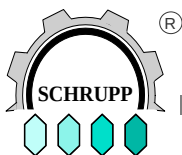
Because of the possible production of high noise levels, we recommend the use of an ear protection.

Mode of operation:

- Closing:** With increasing pressure the valve insert (15) rises out of its seat and vents air to atmosphere. Then the piston (4) rises out of its seat and the valve opens.
- Open:** After blowing the pressure off over the piston (4) the valve insert (15) closes fast; the closing process of the piston (4) is delayed until the pressure build-up over the piston (4) escapes through the drilling in the piston. Thus, closing of the piston (4) takes place not via the strength of the spring (5), but with the pressure on the differential area of the piston (4) opposite the valve seat.



Technical data subject to change



SAFETY VALVES TYPE SVE 10



TÜV approved Safety Valve for compressed air.

2014/68/EU, Group2, Category IV

Set Pressure: 0,3 – 50 bar

Operating Temperature: max 180°C

DN 10mm

Ordering Information

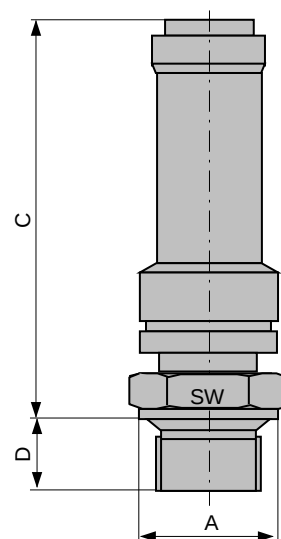
SVE10 - 45 – Part no.

Set Pressure [bar]

Type

Part no.	Connection	Pressure	SW	A	C	D
850803	G3/8"	0,3 – 8,5 bar	27	22	75	12
850803		8,6 – 40 bar	27	22	95	12
850803		40,1– 50 bar	27	22	120	12
850804	G1/2"	0,3 – 8,5 bar	27	26	75	14
850804		8,6 – 40 bar	27	26	95	14
850804		40,1– 50 bar	27	26	120	14
850805	G3/4"	0,3 – 8,5 bar	32	32	75	16
850805		8,6 – 40 bar	32	32	95	16
850805		40,1– 50 bar	32	32	120	16

Dimensions in mm

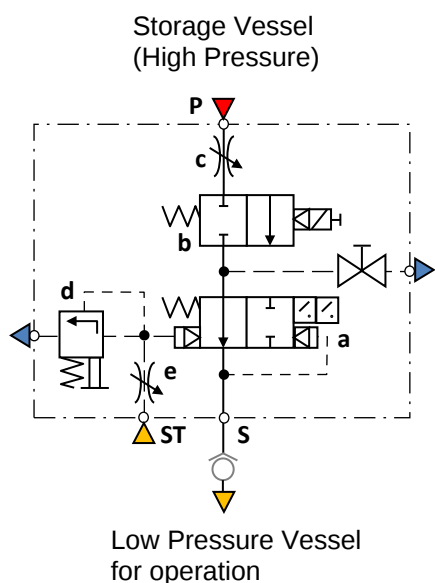
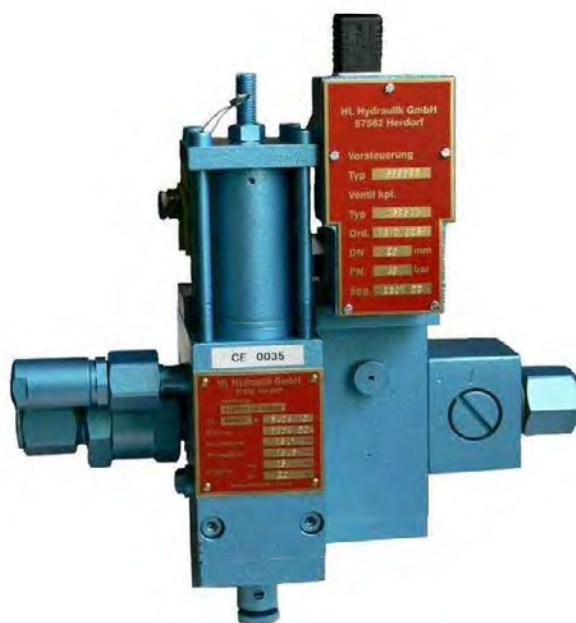


SAFETY DEVICES TYPE SHE

Safety devices of the type SHE are used to protect downstream storage vessels which are being fed by a higher operating pressure, against over pressurization. As opposed to the function of a typical safety valve, the Schrupp SHE valve protects the lower rated pressure vessel by closing the interconnection between the two vessels once the set pressure has been reached. In this way, the operational (low pressure) vessel is protected, while at the same time, maintaining the stored pressurized air necessary to ensure operation of the selected component, such as electrical switch gear.

The Schrupp SHE safety device includes the following elements:

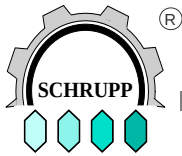
- Locking valve with electrical position indication switch.
- Solenoid actuated, pilot operated, 2/2 way sluice valve.
- Throttling Device.
- Pressure Relief Valve
- Pilot Throttle.
- Bleed Valve.



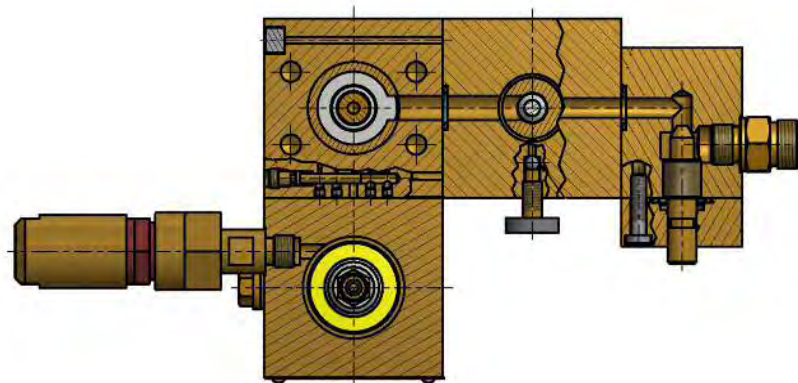
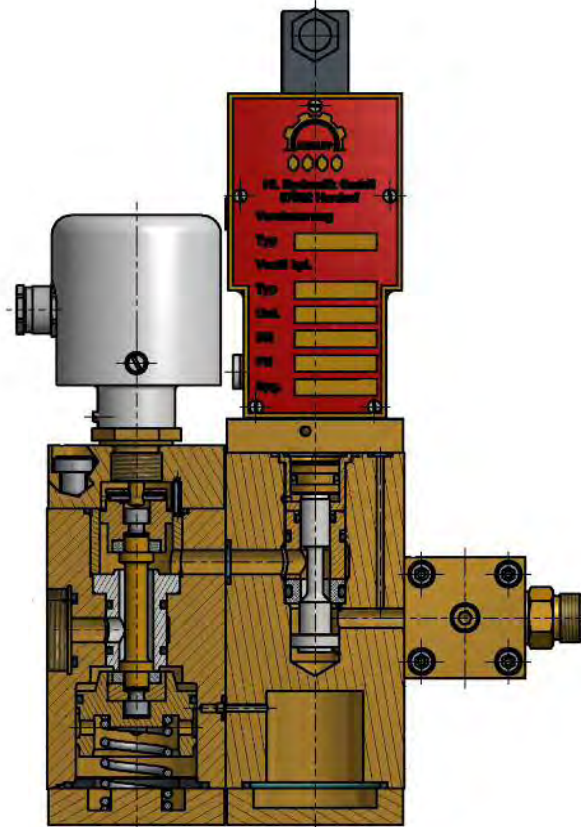
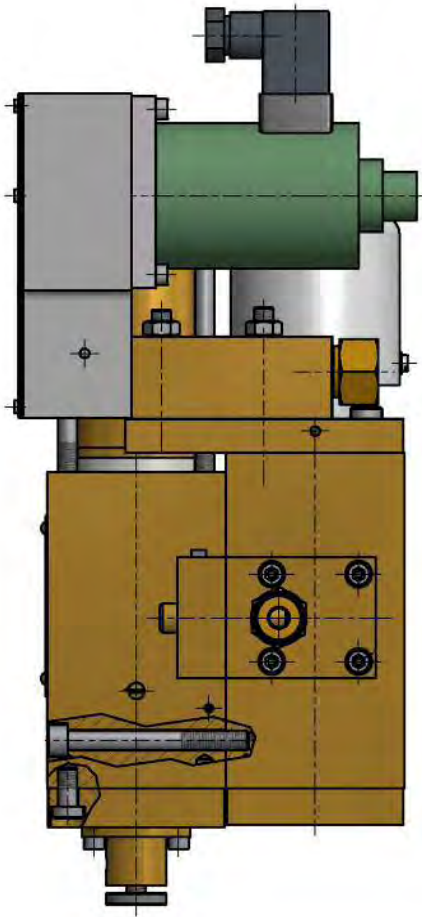
For safety reasons a check valve has to be installed at the S line.
Optional the safety device can be ordered with an integrated non return valve also.

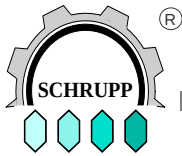
Technical Data

TYPE	SHE MP	SHE HP	
Nominal size	20	10	mm
Primary pressure	64	64 - 200	bar
Secondary pressure	5 – 40	15 – 40	bar
Max flow rate	56,000	56,000	l/min
Mass	ca. 320	ca. 320	N
Nominal size of pressure relief valve	6	6	mm
Port P	M36 x 2	G 3/8"	
Port T	M36 x 2	M36 x 2	
Port ST connection for pipes with outside dimension:	10	10	mm
According to 2014/68/EU, Group 2, Category IV			

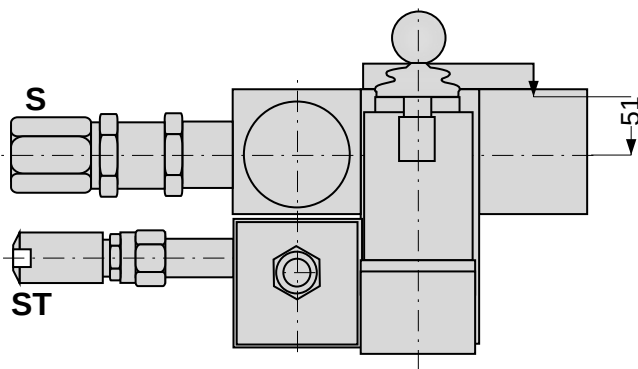
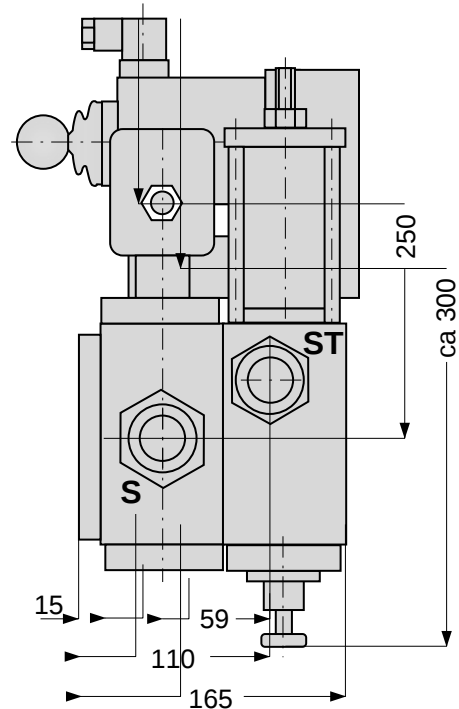
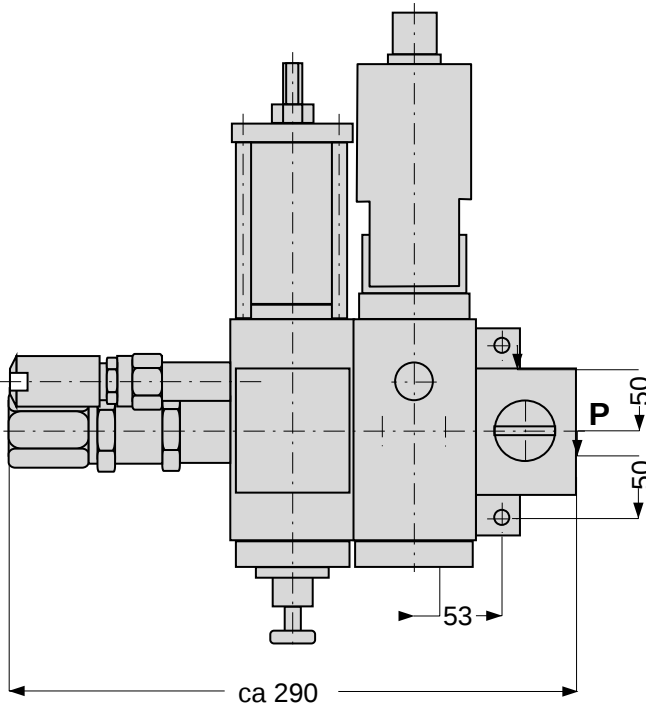


SAFETY DEVICES TYPE SHE





SAFETY DEVICES TYPE SHE

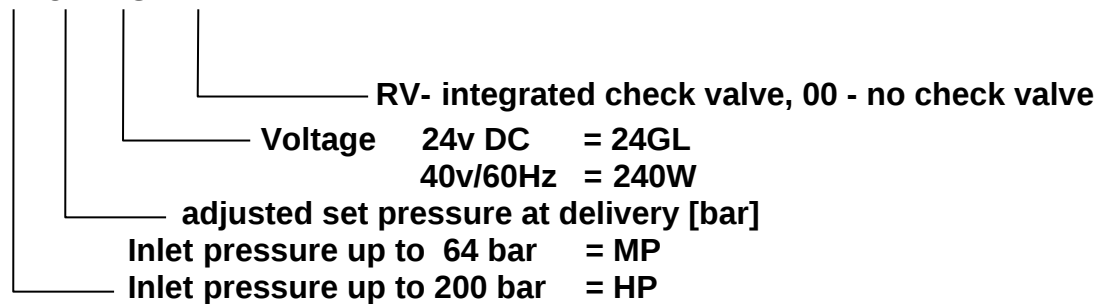


Port Connections

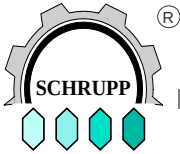
SHE MP	P,T	-	M36 x 2
	St	-	10 mm
SHE HP	P	-	G 3/8"
	T	-	M36 x 2
	St	-	10 mm

Ordering Information

SHE MP 34 24GL RV

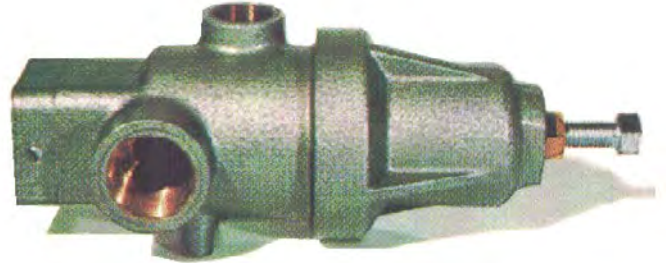


Spare parts kit: SHE MP 24GL RV VTS



PRESSURE REDUCING VALVES TYPE DMV 08

Schrupp pressure reducing valves, type DMV08 (AP20380) are used to reduce pneumatic system pressure from a maximum primary pressure of 200 bar to a maximum secondary pressure of 60 bar. Upon reaching the adjusted outlet pressure, the leakfree Schrupp DMV08 closes. The robust design of the Schrupp pressure reducing valve is very compact and provides exact pressure control.



Technical Data

Nominal Size: 8mm
Inlet port: G 3/8"
Outlet port: G 1"
Max Primary pressure: 200bar
Max Secondary pressure: 60bar
Min Secondary pressure: 5bar
Flow rate 33,000L/min at 180bar dp
Mass: ca. 45N
Ambient Temperature 0-70°C

Ordering Code

DMV08-42-155308

(5-45bar Secondary press.)

DMV08-55-155324

(45-60bar Secondary press.)

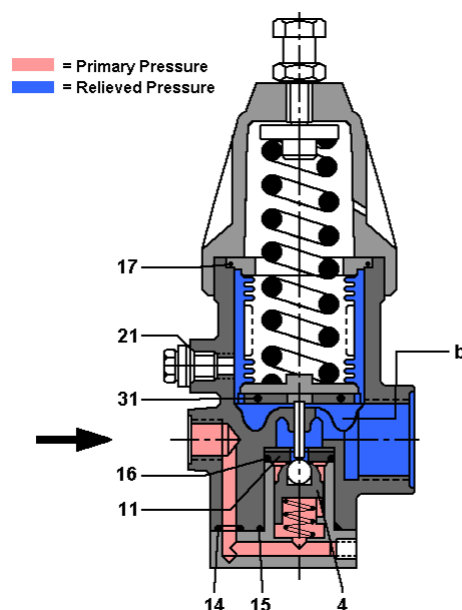
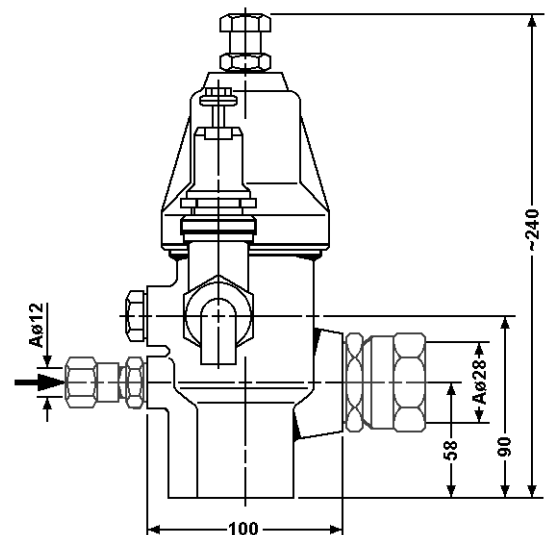
Adjusted set pressure w. delivery [bar]

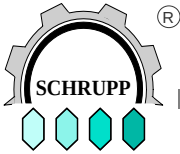
Spare Kit:

DMV08VTS-(Partnumber)

includes:

Pos	Stk	Description
4	1	Piston
11	1	Seat Ring
14	1	O-Ring
15	1	O-Ring
16	1	O-Ring
17	1	O-Ring
21	1	Seal
31	1	O-Ring





PRESSURE REDUCING VALVES TYPE DMV 20

Schrupp pressure reducing valves, type DMV20 are used to reduce pneumatic system pressure from a maximum primary pressure of 40 bar to a maximum secondary pressure of 25 bar. Upon reaching the adjusted outlet pressure, the leakfree Schrupp DMV20 closes. The robust design of the Schrupp pressure reducing valve is very compact and provides exact pressure control.



Technical Data

Size:	20mm
Inlet port:	G 1"
Outlet port:	G 1"
Max inlet-pressure:	40bar
Max outlet-pressure:	25bar
Min outlet pressure:	0,5bar
Flowrate	7.800L/min max
Mass:	apr. 4Kg
Temperature	0-60°C

Ordering code

DMV20-40-453419

Adjusted set pressure with delivery [bar]

