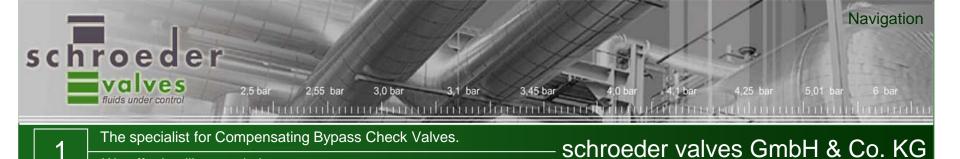


Company Presentation

Schroeder Valves GmbH & Co. KG



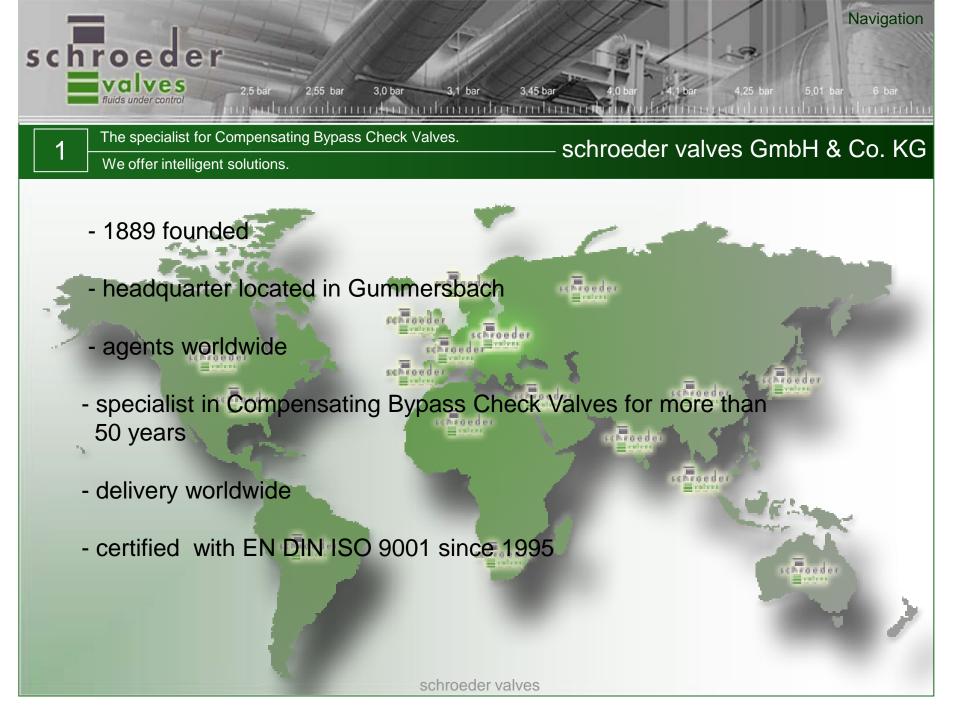


The company H. Schroeder & Co. GmbH & Co. KG was founded in 1889 by Heinrich Schroeder. In the early years of H.Schroeder the main part of the business was the manufacturing of scythes handles made of metal. In 1950 a completed new focus was set, the development and production of pump protection fittings.

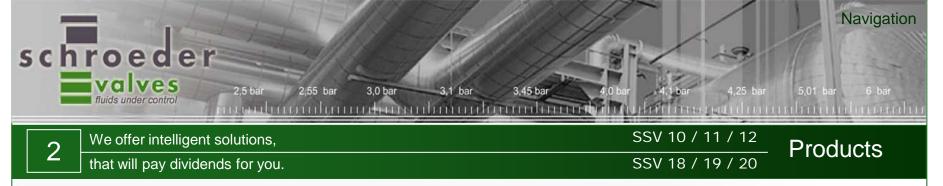
We offer intelligent solutions.

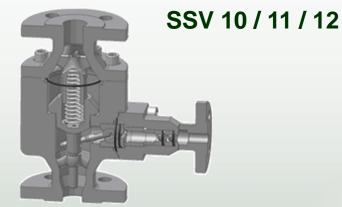
Right after the production started a well known German pump manufacturer was convinced by the new technology of the Schroeder Special Valves. The pump manufacturer stopped his own production and from now on every compensating bypass check valve was produced by H. Schroeder & Co. GmbH & Co. KG.

For this reason the Schroeder solution, which also includes multi port throttles besides the pump protection fittings has been developed, designed and assembled for more then 50 years in our company.

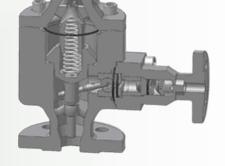






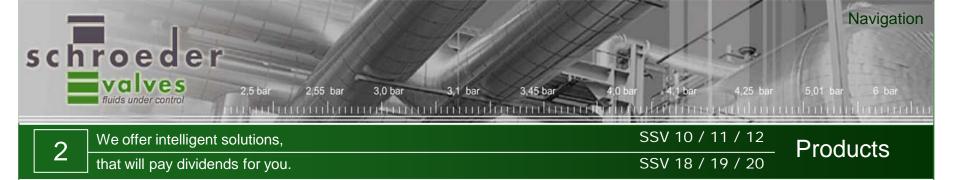


- 1,5⁻⁻ 24⁻⁻
- up to 250 bar
- throttle
- material: carbon super duplex
- for all fluids
- optional with hand-op.branch or degassing branch (SMV 10 / 12)
- normal and speed-controlled pumps
- medium controlled
- modulating system

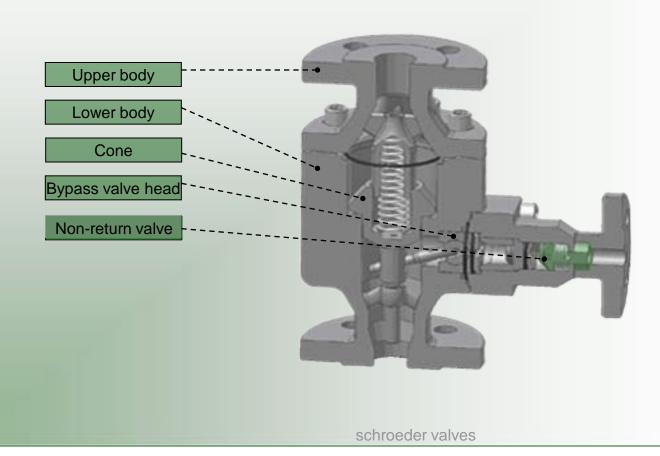


SSV 18 / 19 / 20

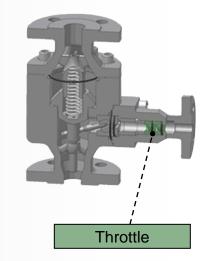
- 1,5 24 -
- up to 250 bar
- non-return valve
- material: carbon super duplex
- for all fluids
- optional with hand-op.branch or degassing branch (SMV 10 / 12)
- normal and speed-controlled pumps
- medium controlled
- modulating system

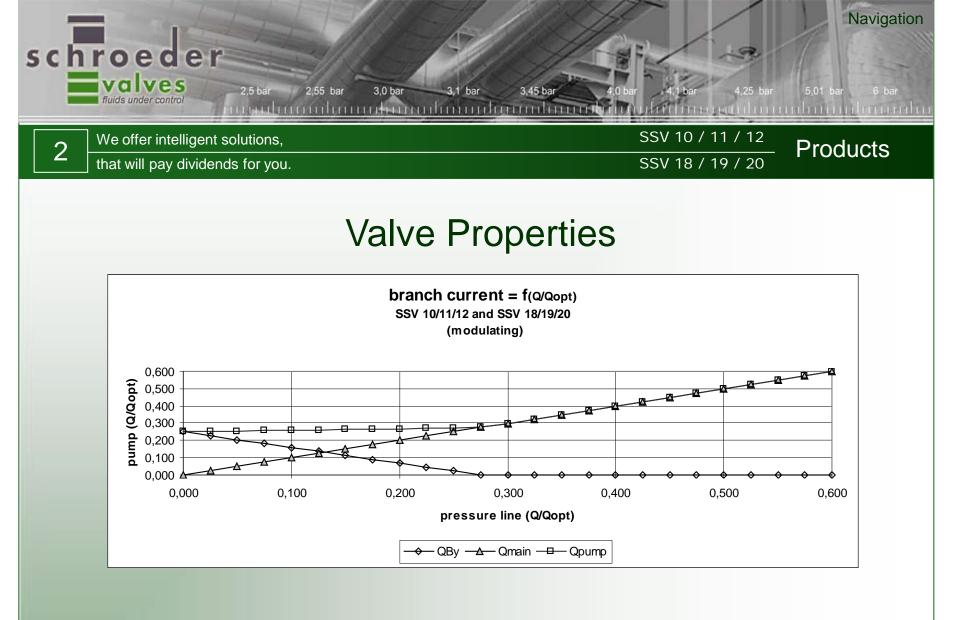


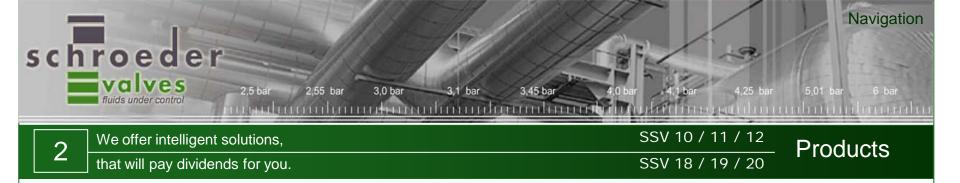
SSV 18 / 19 / 20



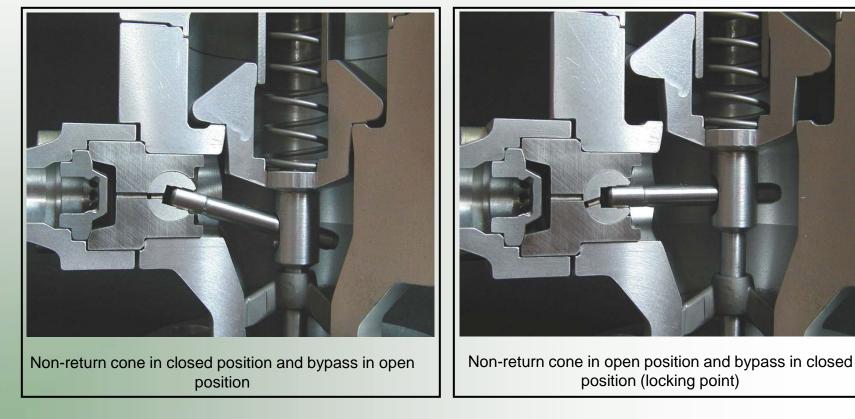
SSV 10 / 11 / 12

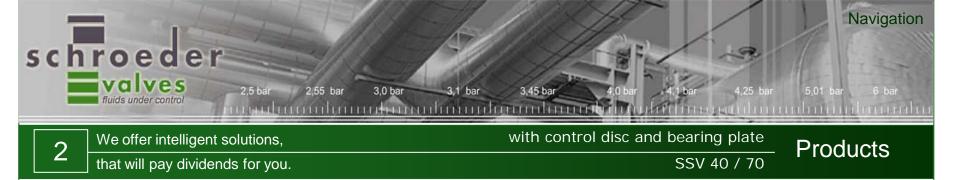




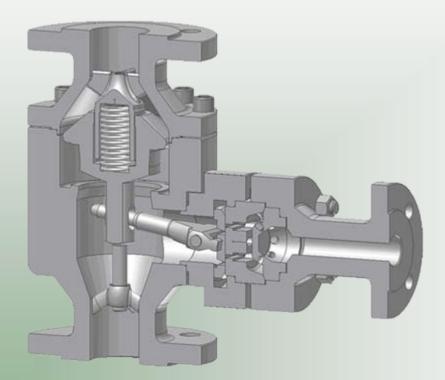


Rotary slide valve principle SSV 10/ 11 / 12 and 18 19 / 20

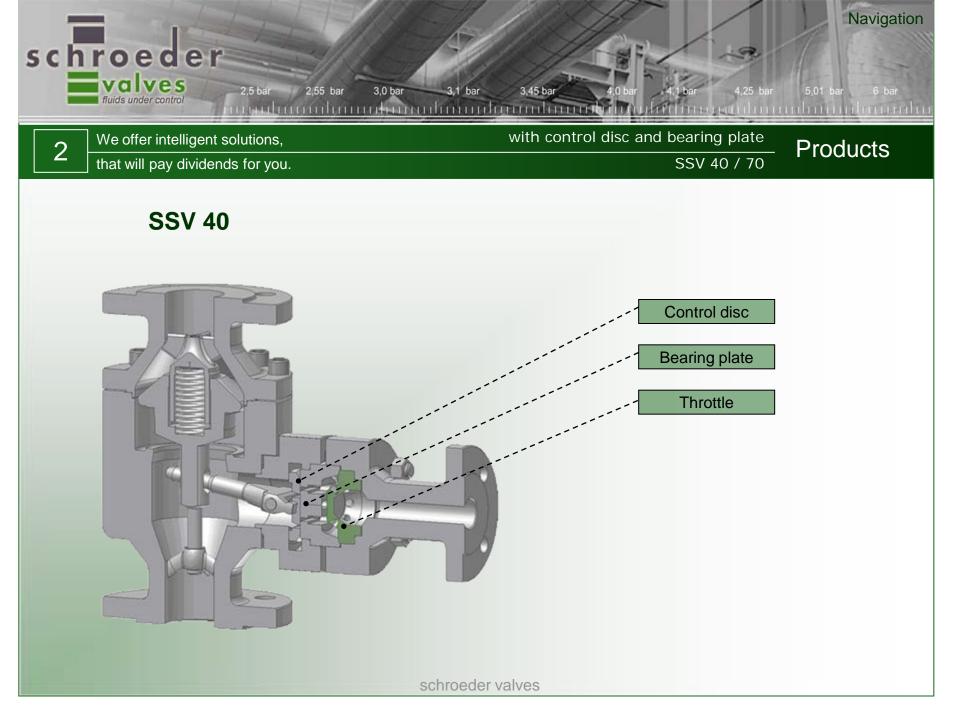


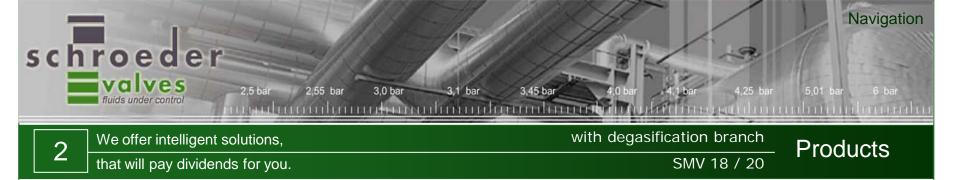


SSV 40



- 1,5 24 -
- up to 70 bar
- bypass quantity up to 70 %
- optional with hand-op.branch or degassing branch
- with throttle and / or non-return valve
- material: carbon super duplex
- for all fluids
- normal and speed-controlled pumps
- medium controlled
- modulating system

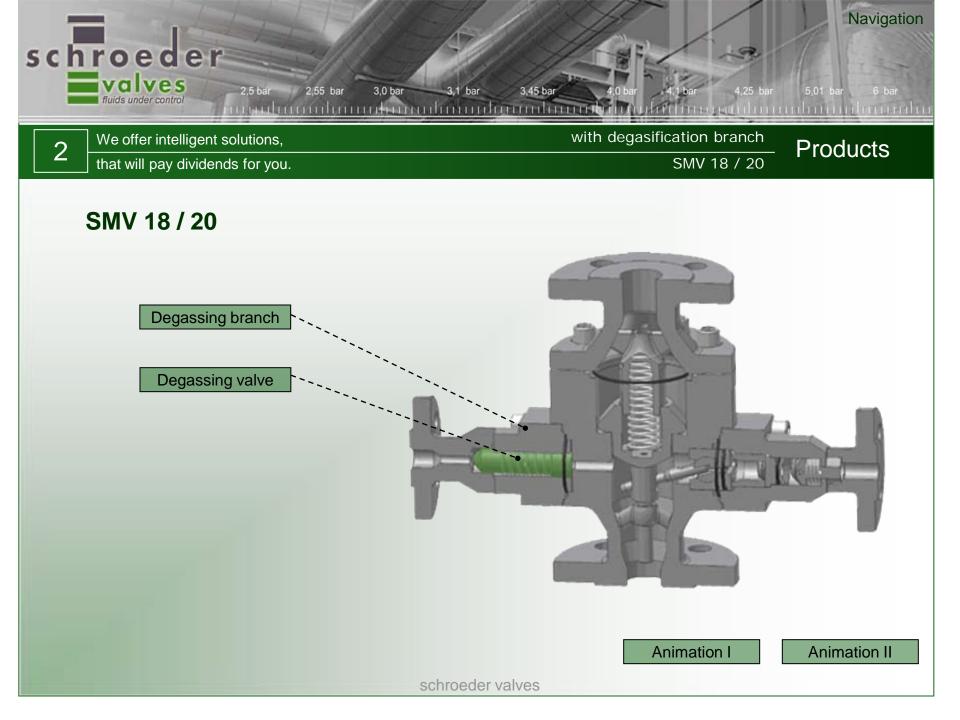


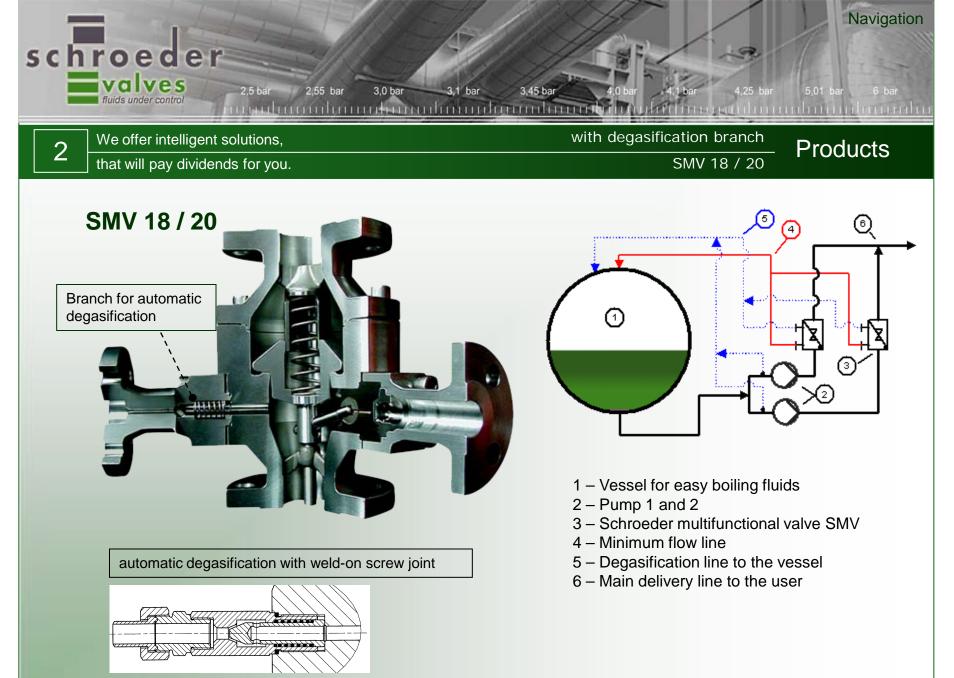


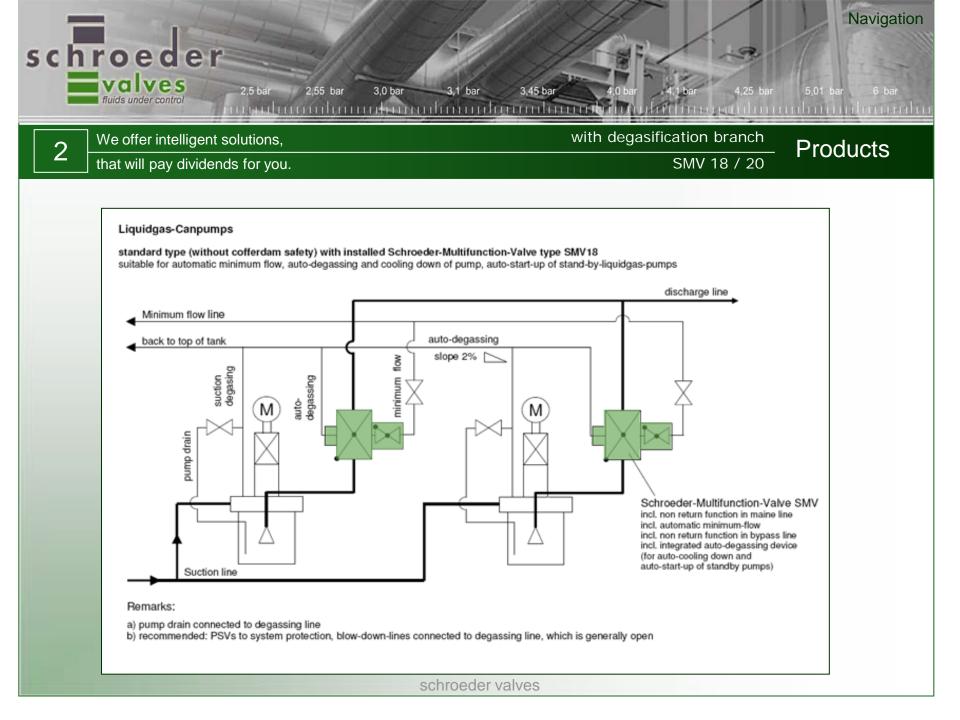
SMV 18 / 20

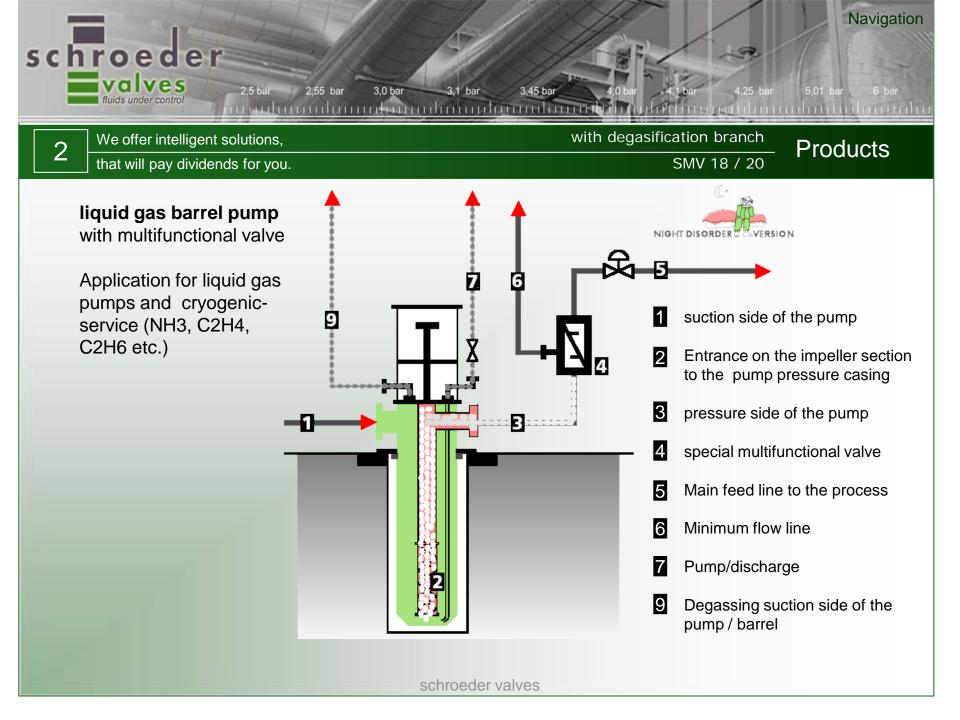
- 1,5 24 -
- up to 200 bar
- degassing branch
- optional with hand-op.branch
- with throttle and / or non-return valve
- medium controlled
- modulating system
- material: carbon super duplex
- for liquid gas application
- normal and speed-controlled pumps

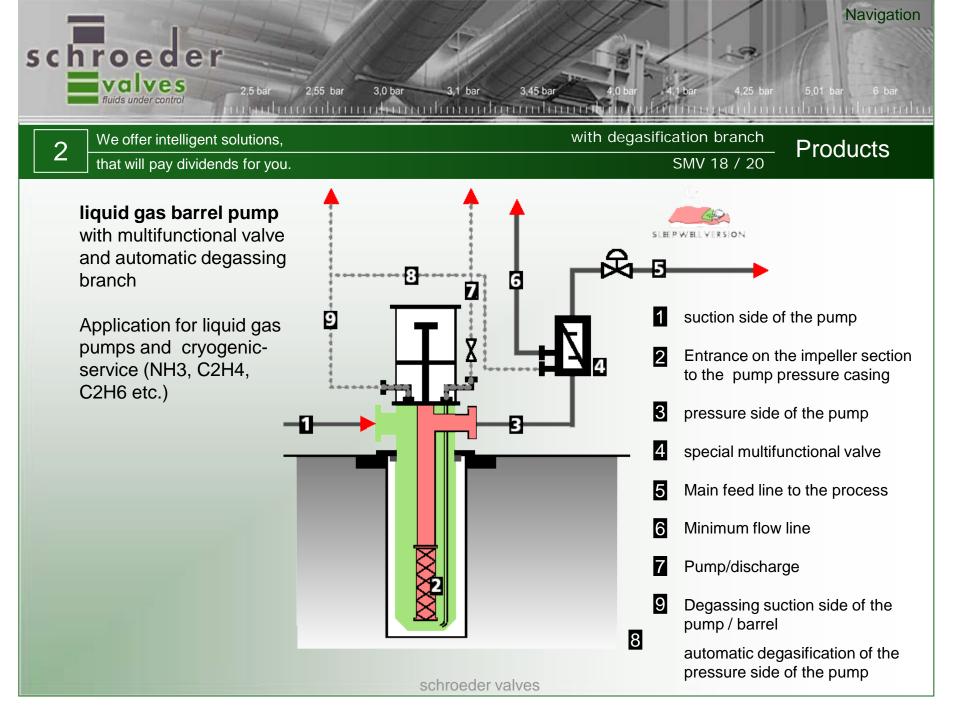


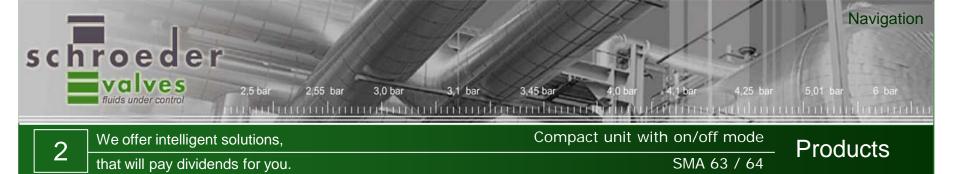






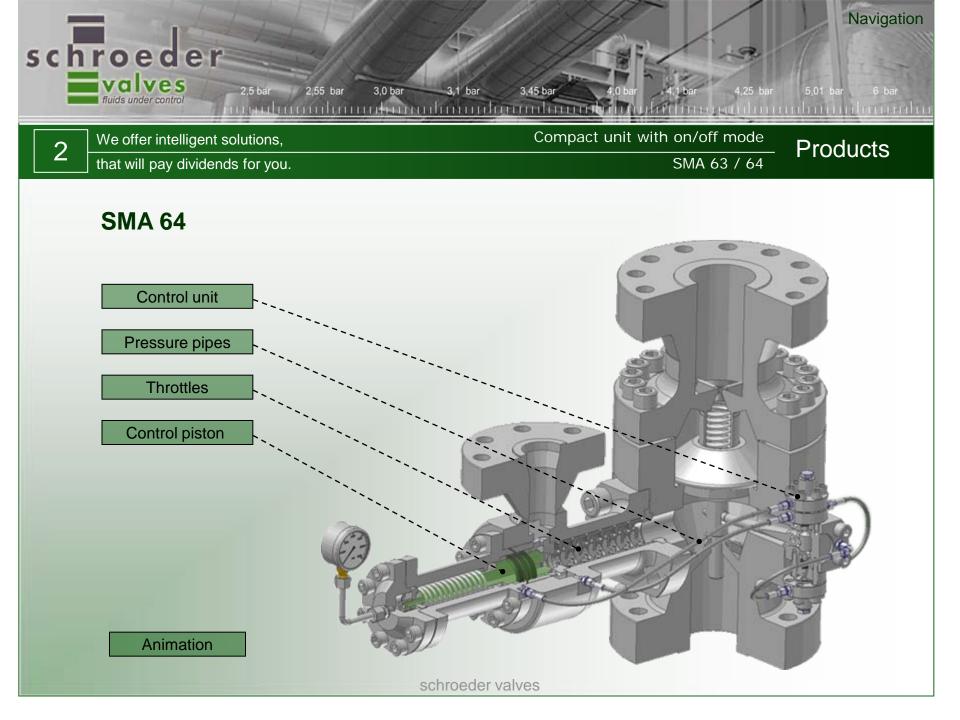


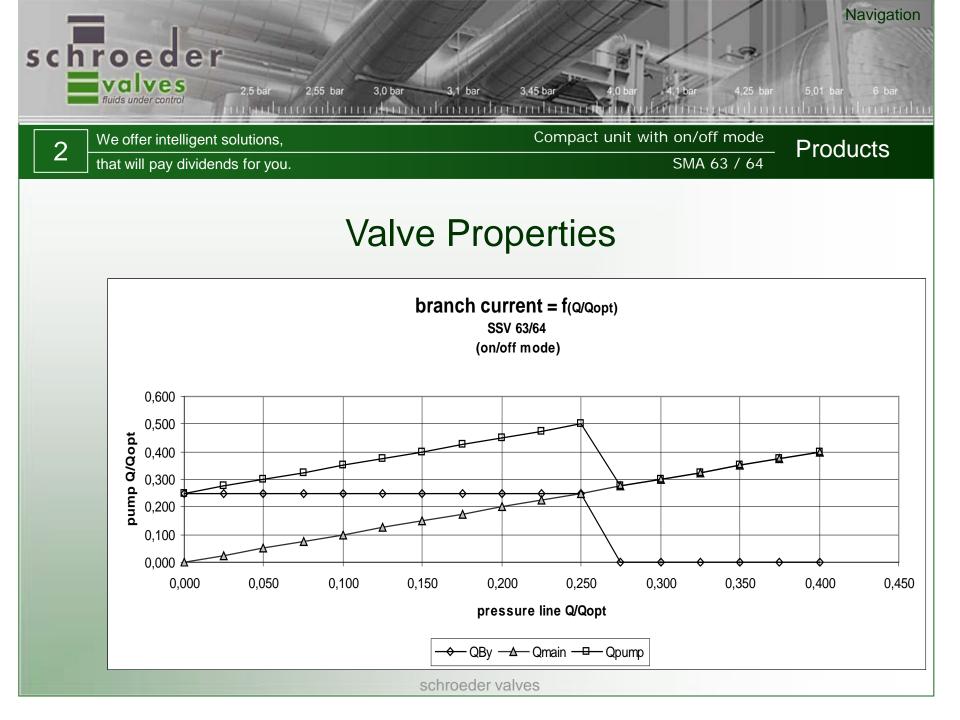




SMA 64

- 3 14 -
- up to 450 bar
- optional with hand-op.branch
- with throttle way
- medium controlled
- on / off mode
- material: carbon super duplex
- for all fluids
- normal and speed-controlled pumps

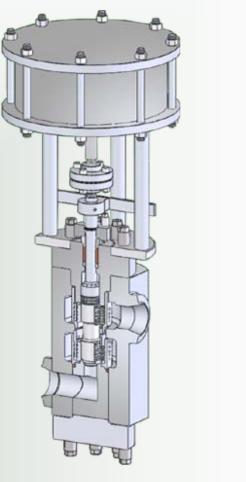


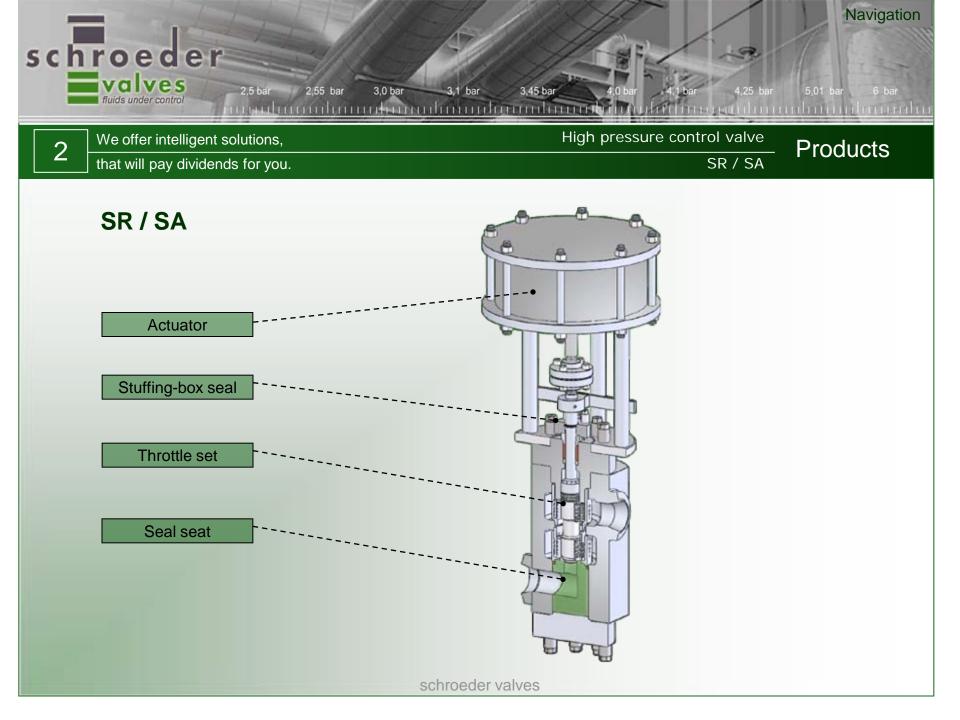


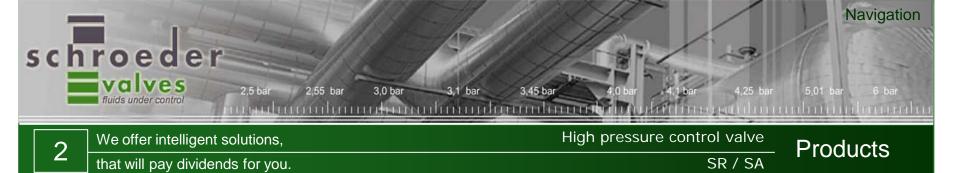


SR / SA

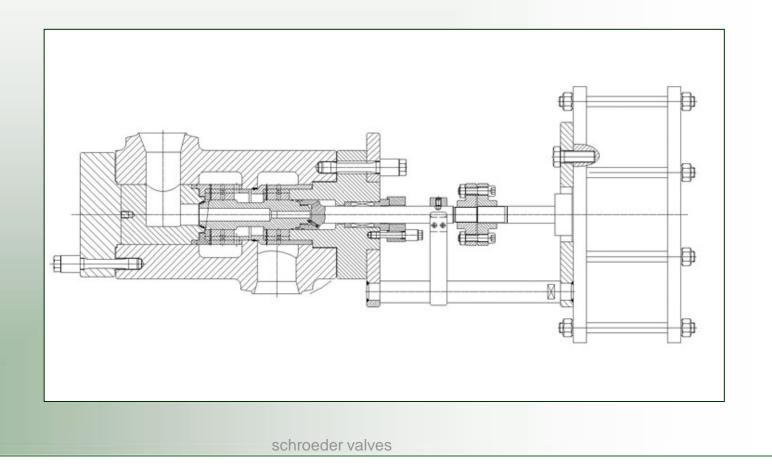
- 1 14 -
- up to 600 bar
- force controlled
- varying minimum flow
- material: carbon super duplex
- for all fluids
- normal and speed-controlled pumps

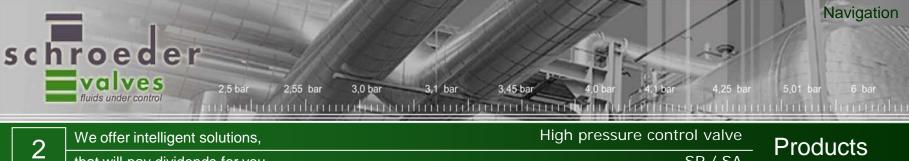






SRP12-125/640-200/200/0/0-1

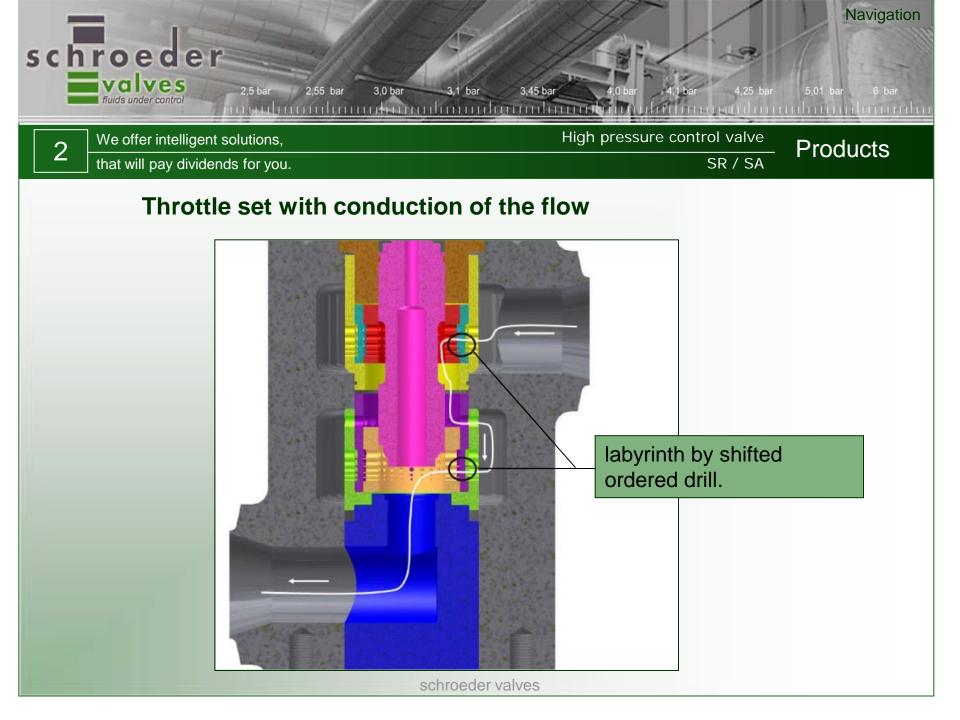


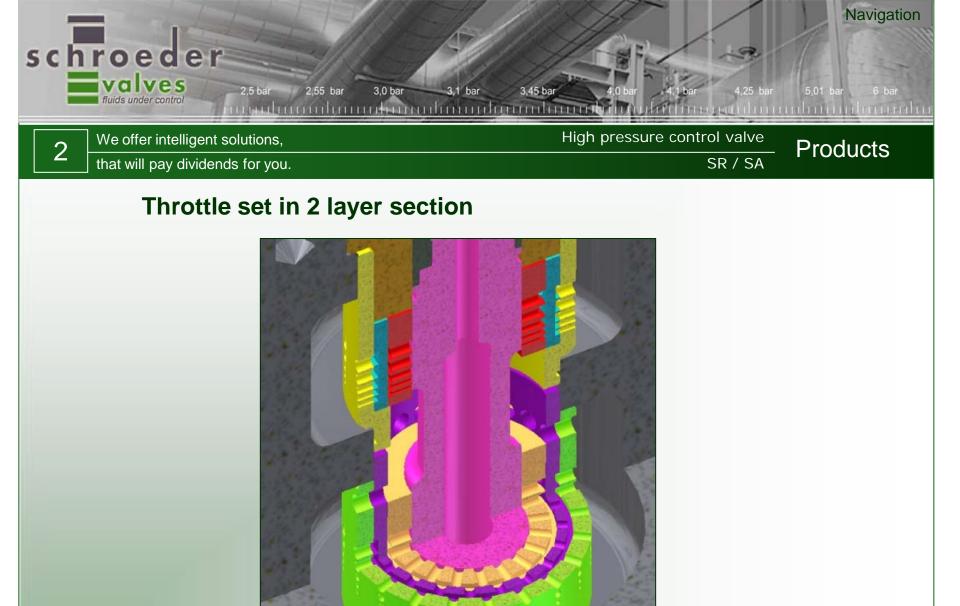


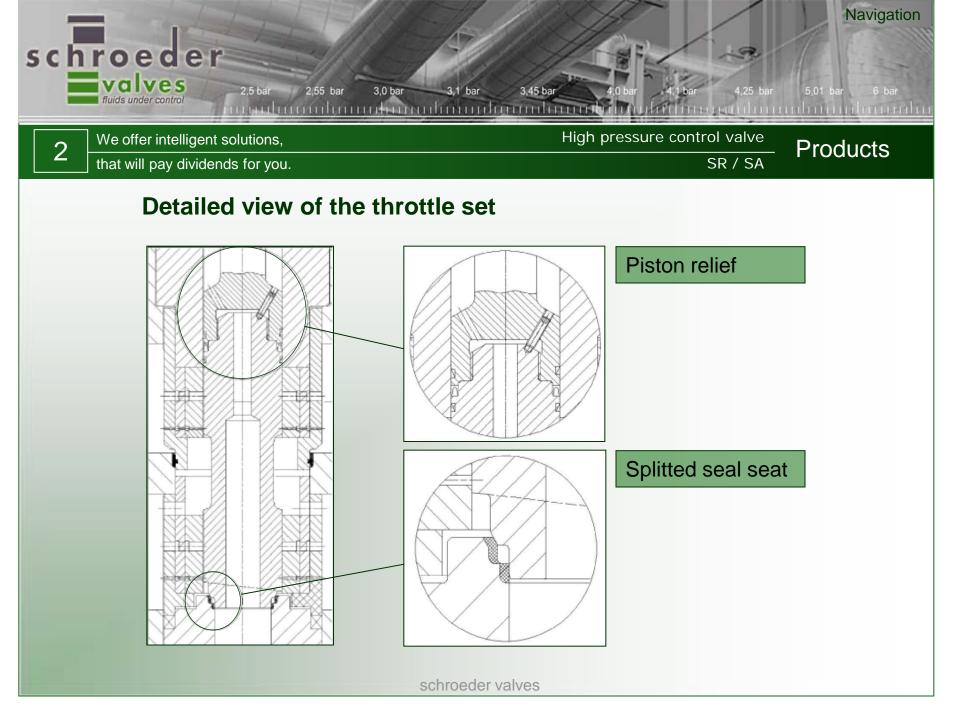
SR / SA

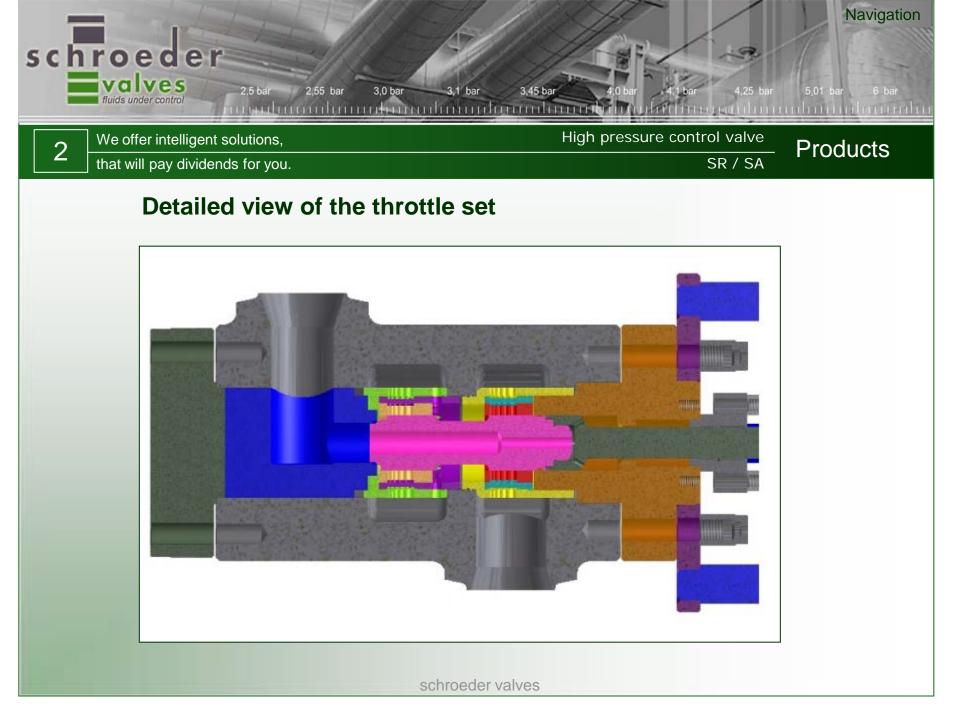
that will pay dividends for you.

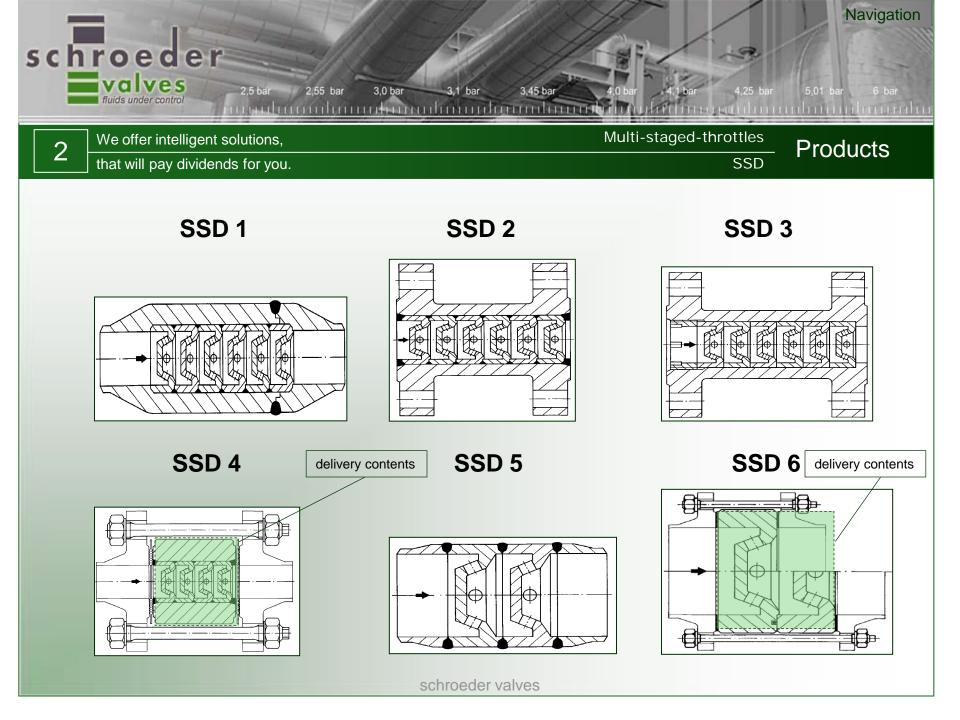
| SA/S | SR - Overview | of the technical | specifications |
|-------------------------|----------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|
| max. technical data: | 600bar / 400°C | propulsion method: | electrical pneumatic hydraulic medium controlled |
| pressure difference: | Δp max ≤ 600bar | shaped casing: | - corner- or z-shape |
| nominal size: | DN 25 - DN 200 (> on request) | Casing material: | ferritic steelaustenitic steelduplex steel |
| contact termination: | weld-end or flange | inner part: | - Cr- steel |
| specifications : | - on / off - linear - square - constant percent | range of application: | power engineering chemical plant engineering pump protection |

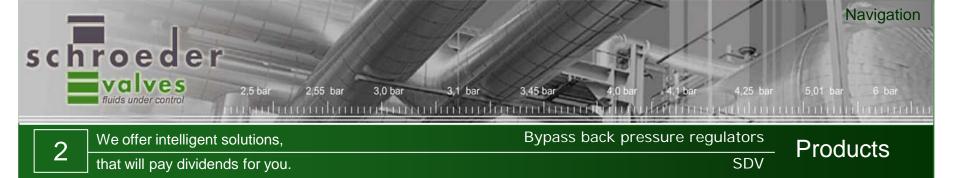






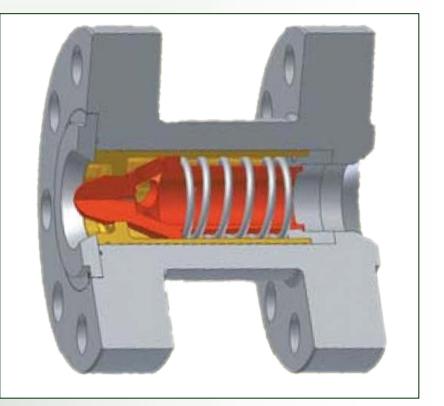


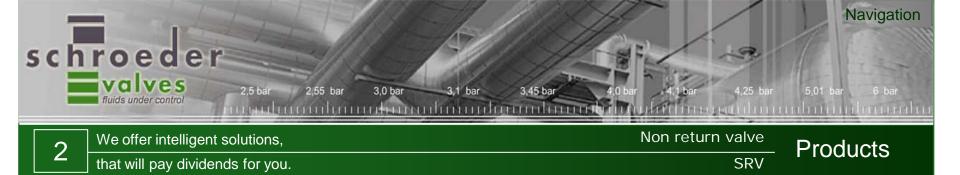




SDV

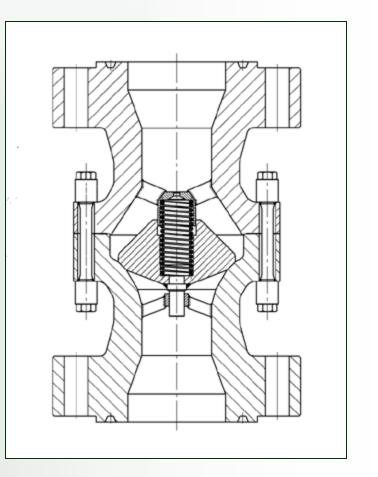
- size depends on bypass
 (1⁻⁻ 12⁻⁻)
- up to 40 bar
- automatic pressure adjustment
- material: carbon super duplex
- for all fluids

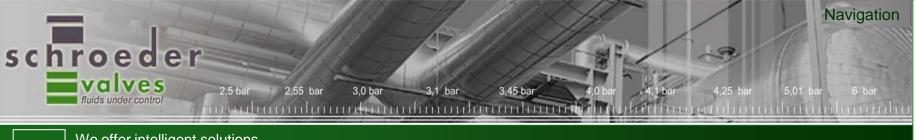




SRV

- 1 24 -
- up to 1000 bar
- material: carbon super duplex
- for all fluids
- optional with cone damping





3

We offer intelligent solutions, that will pay dividends for you.

Application Area

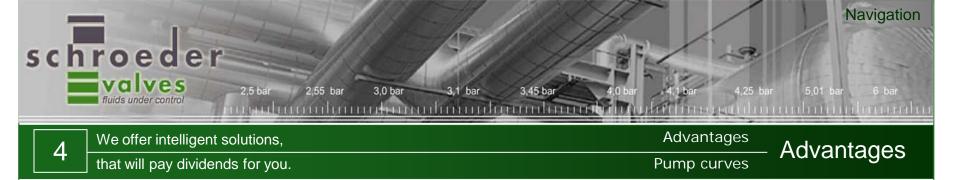
- power stations, nuclear
- petrochemical, chemistry
- steel plants
- paper industries

- offshore-industry
- snow making machines
- fire extinguisher systems
- liquid gas applications
- fertilizer farms







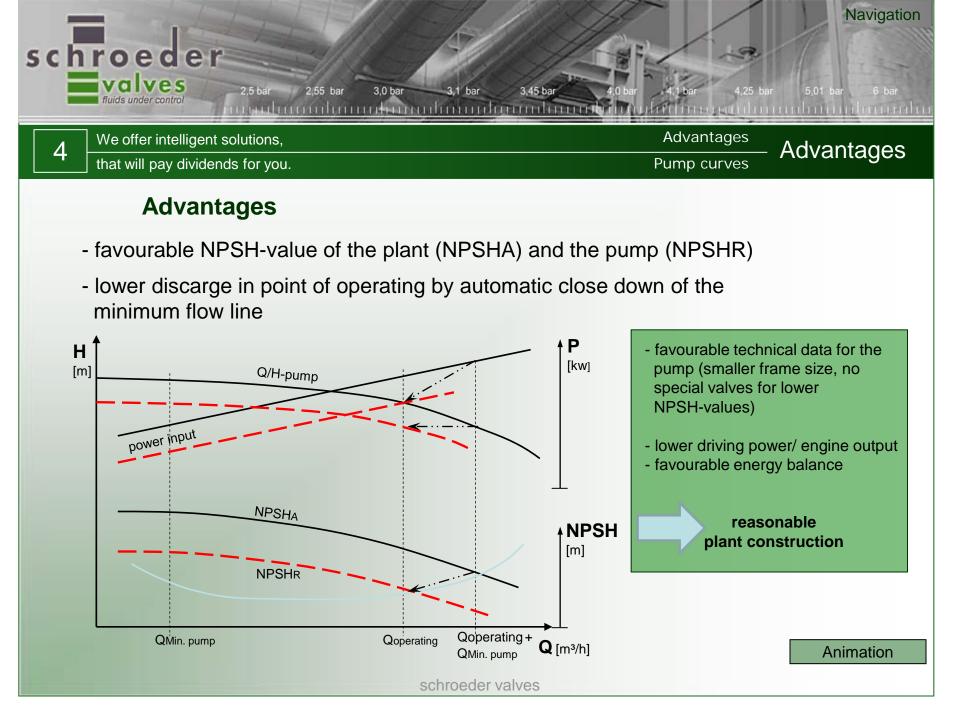


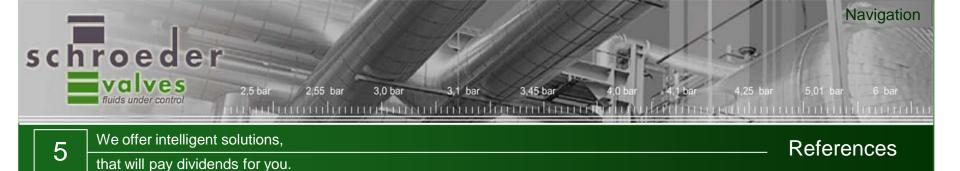
- automatic assurance of the minimum flow rate
- automatic closing of the bypass
- automatic degasification of stopped pumps
- no additional control valves, extra energy or other controls needed
- better energy balance
- integrated check valve in main and bypass stream











- ABB / ABB Lummus

- Babcock
- BASF AG
- Bayernoil
- Clyde
- Deutsche Shell AG
- Du Pont
- Ebara



- Ensival
- Flowserve
- Hermetic
- Krupp-Uhde
- KSB
- Linde
- Sterling SIHI
- Technip

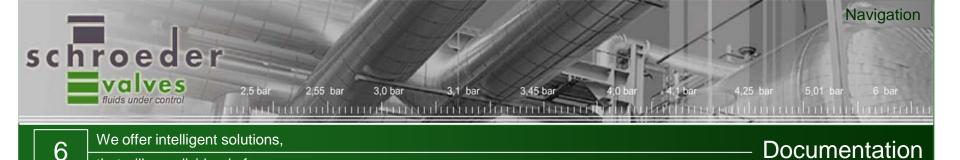


- Kernkraftwerke
- Sulzer Pumpen
- EON
- Torishima
- Wacker-Chemie
- Weller Pumpen
- Evonik



schroeder valves

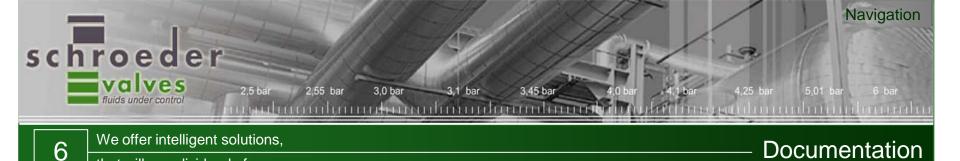




that will pay dividends for you.

According to EN 10204, the products may be accompanied by the following

- a certificate of compliance for internal components without a construction test according to 2.1
- a certificate of compliance for pressurized parts that have been subjected to a construction test and for which the execution of the pressure and functional test according to 2.2 has been confirmed
- an acceptance test certificate for pressurized parts that have been subjected to a construction test according to 3.1 or 3.2



acceptance test certificate

that will pay dividends for you.

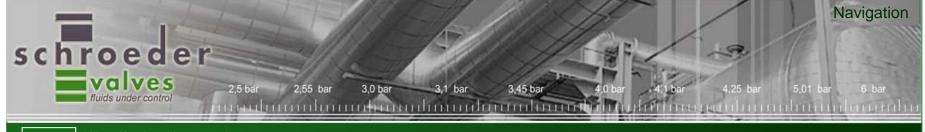
| R. SCHROEDER & CO. ELBACH | | Abnal | meprotok | moment | 31069 / 1-3 | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|--------------------------|-------------|--------------------------------------------|------------|--|--|
| Besteller: Proco Customer: Commettant: | | | Bestel Order N N° de la | | -03 | | | | |
| Artikel: Freilauf-Rückschi Article: Automatic recirculatio | | | Stickzahl: Quartity: 3 | Type 5 | WY 10-12 | ANSI300-12 | 11241,5-2 | | |
| Produit Clapet de non-rafour | à recirculation au | tomatique | Quantile: | | | | | | |
| Auslegung (valve design - points de | Roctonnement) | | | | | | | | |
| Handfahrmenge: min flow (Hand-op branch) - debit mans | ei 60 | mih | Förderhöhe bei Intel head at Onin - | Qmin: hauteur à Conin | Hq = | 115 | m | | |
| min. Bypassmenge: minimum pump flow - debit minimum: | Qmin = | 141 m'ih | Medium: nedum - fuide | | | | NH3 | | |
| Schaltpunkte: | e: SP\OP >= point - point de fermeturatouverture | | Temperatur: temperature - tempé | ratura | T = | -46 °C | | | |
| Durchflußmenge insgesamt: total fow - debit total | Q = | 750 m'ih | Dichte: density - masse vol. | | | 520 | kg/m* | | |
| Ventil-Nr. / Valve-No. / Clapet n* | | | 1 | 2 | | 3 | 4 | | |
| Bypassmenge: Qmin | MoGwort measured value valeur mesures | a,jp | 80,0 | 79,5 | | 87,5 | | | |
| minimum pump flow (max. bypass capacity) | Differenzdruck differential press pression differen | ure . | 3,2 | 3,1 | \square | 3,8 | | | |
| débit minimum de la pompe (débit du by-pass max.) | Ishwort actual Value valeur effective | mah | 149,5 | 152,2 | | 151,2 | | | |
| Öffnungspunkt: ÖP (som liebonautikt parade (fileet) epening point (measured filoe rate with tropees about to coert) | MeGwert measured value valeur mesuree | | 135,0 | 133,0 | | 136,0 | | | |
| Point d'overture (xileur mesurée au noment de l'overture du by-pase) | Isbwert actual Value valeur effective | mäh | 187,2 | 184,4 | | 188,6 | | | |
| Schließpunkt: SP (vonn Nebonauslaß, gerade schließz) shut-off point (measured floe rate | MeGwort measured value valeur mesuree | milh | 139,0 | 135,0 | | 139,0 | | | |
| with bypass about to diske) Point de fermeture (valeur mesunte au moment de la fermeture du by pass) | Istwert actual Value valeur effective | mih | 192,8 | 187,2 | | 192,8 | | | |
| Handfahrmenge: q3 diense am Skitzen f. Handfahrleitung) | Prevent measured value value measures | müh | | | | | | | |
| min. Iow (hrough secondary hand-op. Bypass branch) debit de demarrage manuel | Differenzdruck differential press pression differen Ishwert | ure . | | | | | | | |
| (dobit sur is tubulure pour demanage manuel) | actucii Value valeur effective | frm | | | | | | | |
| Durchflußmenge: Q insgesant (fodention) total flow (Procyn main (treck value) ablet total (seet de funccement) | Druckverlust pressure lost perie de charge | Δ pv bar | 0,47 | 0.58 | | 0,61 | | | |
| Esgebnis der Prüfung Test sourts Resultat des essais | - The Re | forderungen s puirements are dificina imposile | | | | and 1 | .12.2004 | | |
| Sele von Sheet 1 of 1 Page de | Prüfmess | ung vom 1 | 1.11.2004 | | | WerkSachin he Factory S L'Impert d'i | pecialist. | | |

final inspection certificate

| | H. SCHROEDER & CO. ELBACH | | | | Bauprüfbescheinigung | | | | | | 31812/1-6 | | | | | |
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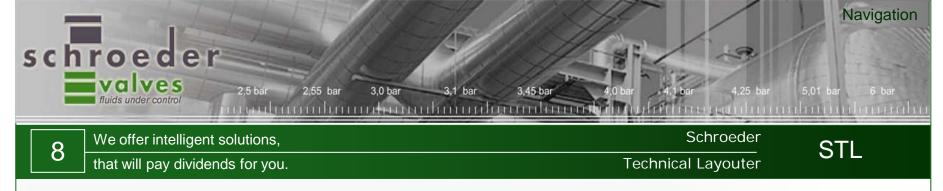
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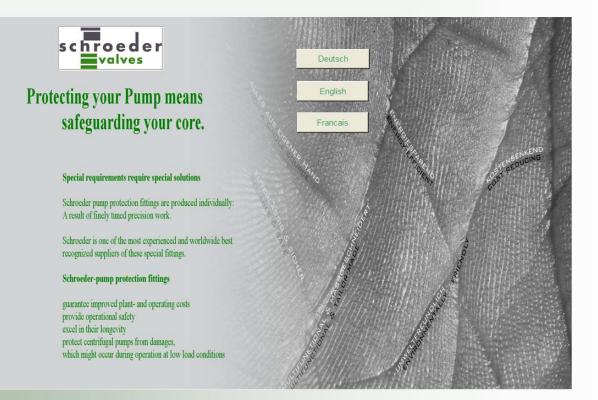


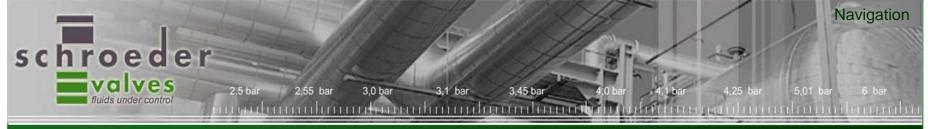
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Schroeder Technical Layouter



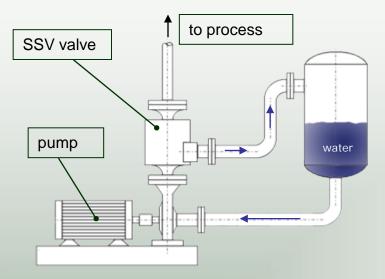


10

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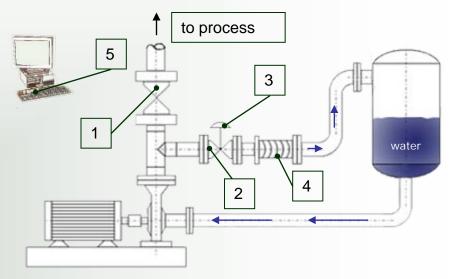
Schroeder valve



includes:

- check valve
- T-piping
- orifice
- no PLC required
- no auxiliary energy required

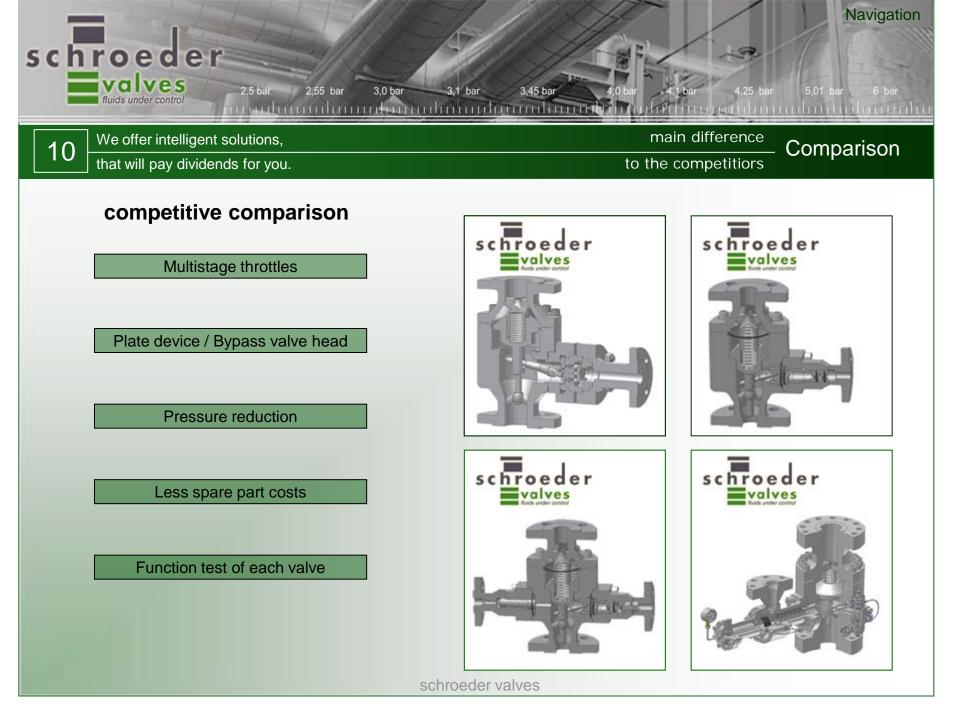
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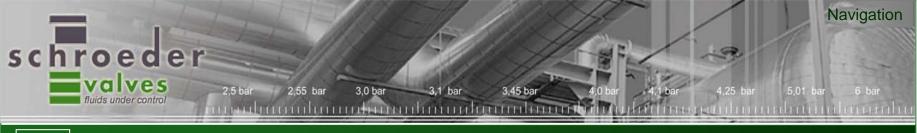


Comparison

requirements:

- 1 check valve
- 2 control valve
- 3 actuator
- 4 orifice
- 5 PLC with auxiliary energy





11

We offer intelligent solutions,

that will pay dividends for you.

The task

- effective pump protection

The concept

- autarchic bypass flow
- controlled bypass flow

The solution

- automatic recirculation check valve

- control valve

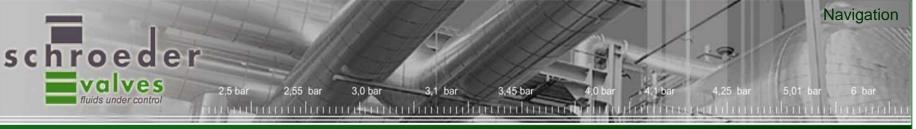
The details

- 1,5" – 24" - ANSI150 – ANSI2500

The advantages

Summary

- effective energy balance
- lower costs
- high lifespan



schroeder valves GmbH & Co. KG



pimp your pump

