

TBHYDRO

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REFERENCE LIST / REFERENZLISTE

DESIGN +ARRANGEMENT OF MANUFACTURING / KONSTRUKTION +ORGANIZATION DER FERTIGUNG

SLIDE VALVES / ROHRSCHIEBER

1

| YEAR OF DELIVERY / BAUJAHR | QUANTITY / STÜCKZAHL | DIMENSION / DIMENSION | PRESS. RATE / DRUCKSTUFE | TYPE OF VALVE / ARMATURENTYPE | FINAL CLIENT / ENDKUNDE | PLACE OF INSTALLATION / EINBAUORT |
|----------------------------|----------------------|--------------------------|--------------------------|-------------------------------|----------------------------------|-----------------------------------|
| 1993 | 3 | 50 | 40 | SLV (By-pass) | Austria | HPS Kalsersbach, Austria |
| 1994 | 3 | 150 | 16 | SLV (By-pass) | VOITH, Austria | HPS Opponitz, Austria |
| 1995 | 1 | 80 | 40 | SLV (By-pass) | VOITH, Austria | HPS Remsach, Austria |
| 1995 | 4 | 100 | 100 | SLV (By-pass) | VOITH, Austria | HPS Diesbach, Austria |
| 1995 | 1 | 150 | 100 | SLV (By-pass) | SULZER Switzerland | HPS Tesla, USA |
| 1996 | 1 | 50 | 25 | SLV (By-pass) | VOITH, Austria | HPS Ruetz, Austria |
| 1996 | 2 2 2 2 | 150 200 100 150 | 100 100 100 100 | SLV (By-pass) | SULZER ESPANA, Spain | HPS Houay Ho, Laos |
| 1996 | 6 | 125 | 60 | SLV (By-pass) | SULZER DE PRETTO, Italy | HPS Nathpa Jhakri, India |
| 1996 | 1 | 50 | 40 | SLV (By-pass) | VOEST MCE Linz, Austria | HPS Schmirn, Austria |
| 1996 | 2 | 150 | 100 | SLV (By-pass) | SULZER HYDRO Kriens, Schweiz | HPS Houay Ho, Laos |
| 1997 | 4 | 80 | 40 | SLV (By-pass) | SULZER ESPANA, Spain | HPS Huaji, Bolivia |
| 1997 | 1 1 | 100 150 | 100 100 | (Automatic valve) | SULZER ESPANA, Spain | Spain |
| 1997 | 2 | 50 | 64 | SLV (By-pass) | Vorarlberger Kraftwerke, Bregenz | Austria |
| 1998 | 1 | 150 | ANSI 300 | SLV (By-pass) | German Tec, Costa Rica | Costa Rica |

SLV
Slide valve open/close by hydraulic fluidSLV-F
Slide valve open by hydraulic fluid, close by spring(By-pass)
Slide valve installed as a part of pressure compensating system

*) Under manufacturing

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SLIDE VALVES / ROHRSCHIEBER

2

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|----------------------------|----------------------|-----------------------|--------------------------|-------------------------------|-------------------------|-----------------------------------|
| 1998 | 2 | 50 | 66 | SLV (By-pass) | VKW, Austria | Austria |
| 1998 | 1 | 80 | 25 | SLV (By-pass) | VOITH, Austria | HPS Gaming, Austria |
| 1998 | 1 | | | SLV (By-pass) | SULZER FLOVEL, India | HPS Pykara, India |
| 1998 | 1 | 50 | 100 | SLV (By-pass) | SULZER Switzerland | HPS Ackersand |
| 1998 | 1 | 250 | 64 | (Drain valve) | SULZER Switzerland | HPS Bacun |

SLV

Slide valve open/close by hydraulic fluid

SLV-F

Slide valve open by hydraulic fluid, close by spring

(By-pass)

Slide valve installed as a part of pressure compensating system

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| YEAR OF DELIVERY / BAUJAHR | QUANTITY / STÜCKZAHL | DIMENSION / DIMENSION | PRESS. RATE / DRUCKSTUFE | TYPE OF VALVE / ARMATURENTYPE | FINAL CLIENT / ENDKUNDE | PLACE OF INSTALLATION / EINBAUORT |
|--|----------------------|---|--------------------------|--|--------------------------|-----------------------------------|
| 2002 | 1 | 125 | 100 | SLV (By-pass) | VOITH, Germany | BJÖLVO, Norway |
| 2003 | 5 | 300 | 16 | SLV | VOITH, Austria | ALPASLAN, Austria |
| 2003 | 1 | 70 | 40 | SLV – ZA | Porabka Zary, Poland | Poland |
| 2003 | 1 | 70 | 40 | SLV – ZP | Porabka Zary, Poland | Poland |
| 2003 | 1 | 80 | 40 | SLV – ZF | Porabka Zary, Poland | Poland |
| 2003-2004 | 10 | 150 | 6 | SLV-F (By-pass) | VA TECH HYDRO, Italy | ESTERLE, Italy |
| 2004 | 4 | 150 | 10 | SLV-F | KÖSSLER, Austria | ZOGNO, Austria |
| 2004 | 1 | 300 | 16 | SLV | VOITH, Austria | KUERTUEN, Austria |
| 2004 | 1 | 50 | 25 | SLV (By-pass) | VA TECH HYDRO, Italy | MAZZUNNO, Italy |
| 2005 | 1 | 25 | 64 | SLV (By-pass) | VA TECH HYDRO, Italy | GAVER, Italy |
| 2005 | 2 | 50 | 64 | SLV | VOITH, Austria | KARTELL, Austria |
| 2005 | 2 | 150 | 16 | SLV | HYDROPOL, Czech Republic | KALIMANCI, Macedonia |
| 2006 | 2 | 80 | 67 | SLV (By-pass) | VOITH, Brasil | PINALITO, Brazil |
| 2006 | 2 | 100 | 16 | SLV-F (By-pass) | KÖSSLER, Austria | QOLORTORSUAQ, Greenland |
| 2006 | 1 | 200 | 6 | SLV | VATECH, Germany | KUERTUEN, Germany |
| 2006 | 2 | 80 | 25 | SLV (By-pass) | VOITH, Austria | ERIK, Turkey |
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4

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|-------------------------------|-------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|
| 2008 | 1 | 80 | 25 | SLV (By-pass) | SPETALS, Norway | GJERDSVIKA, Norway |
| 2008 | 2 | 50 | 67 | SLV | VOITH, Brasil | PINALITO, Brazil |
| 2008 | 2 | 80 | 40 | SLV | VOITH, Brasil | RIO BLANCO, Brazil |
| 2008 | 2 | 80 | 16 | SLV | HYDROPOL, Czech Republic | HPP PENA, Macedonia |
| 2008 | 2 | 100 | 25 | SLV (By-pass) | ANDRITZ, Austria | HIDROELECTRICA EL RECREO |
| 2008 | 2 | 50 | 80 | SLV (By-pass) | VA TECH HYDRO, Italy | MASOCORONA, Italy |
| 2007 | 4 | 70 | 40 | SLV – ZA | Porabka Zar, Poland | Poland |
| 2007 | 4 | 70 | 40 | SLV – ZP | Porabka Zar, Poland | Poland |
| 2007 | 4 | 80 | 40 | SLV – ZF | Porabka Zar, Poland | Poland |
| 2007 | 5 | 150 | 64 | SLV – ZM | Porabka Zar, Poland | Poland |
| 2007 | 1 | 150 | 100 | SLV (By-pass) | VA TECH Germany | GLENDOE |
| 2007 | 3 | 80 | 160 | SLV (By-pass) | ANDRITZ VA TECH Italy | DOSSI |
| 2007 | 1 | 150 | 40 | SLV (By-pass) | VOITH, Brasil | CARANGOLA |
| 2007 | 1 | 150 | 40 | SLV (By-pass) | VOITH, Brasil | SAO JOAQUIM |
| 2007 | 4 | 100 | 25 | SLV (By-pass) | VA TECH | ROUNA II |
| 2007* | 1 | 100 | 100 | SLV (By-pass) | VA TECH | KJOSNESFJORD |

SLV
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SLV-F
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(By-pass)
Slide valve installed as a part of pressure compensating system

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|-------------------------------|-------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|
| 2007 | 2 | 80 | 64 | SLV (By-pass) | VA TECH SCHIO | PASSIRIO |
| 2007 | 1 | 150 | 40 | SLV - F | DAHL | |
| 2007 | 2 | 80 | 64 | SLV (By-pass) | TROYER | |
| 2007 | 2 | 65 | 100 | SLV - F | VA TECH SCHIO | MASOCORONA |
| 2007 | 1 | 100 | 135 | SLV - F | VA TECH HYDRO | |
| 2007 | 2 | 125 | 100 | SLV (By-pass) | VOITH BRAZIL | EL PLATANAL |
| 2008 | 2 | 300 | 25 | SLV | VOITH BRAZIL | MAZAR |
| 2008* | 1 | 400 | 16 | SLV | BRODRENE DAHL NORWAY | |
| 2008* | 2 | 300 | 40 | SLV | VOITH BRAZIL | BRIDGEWATER |
| 2008* | 3 | 50 | 40 | SLV | HYDROPOL MACEDONIA | DOSNICA |

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