

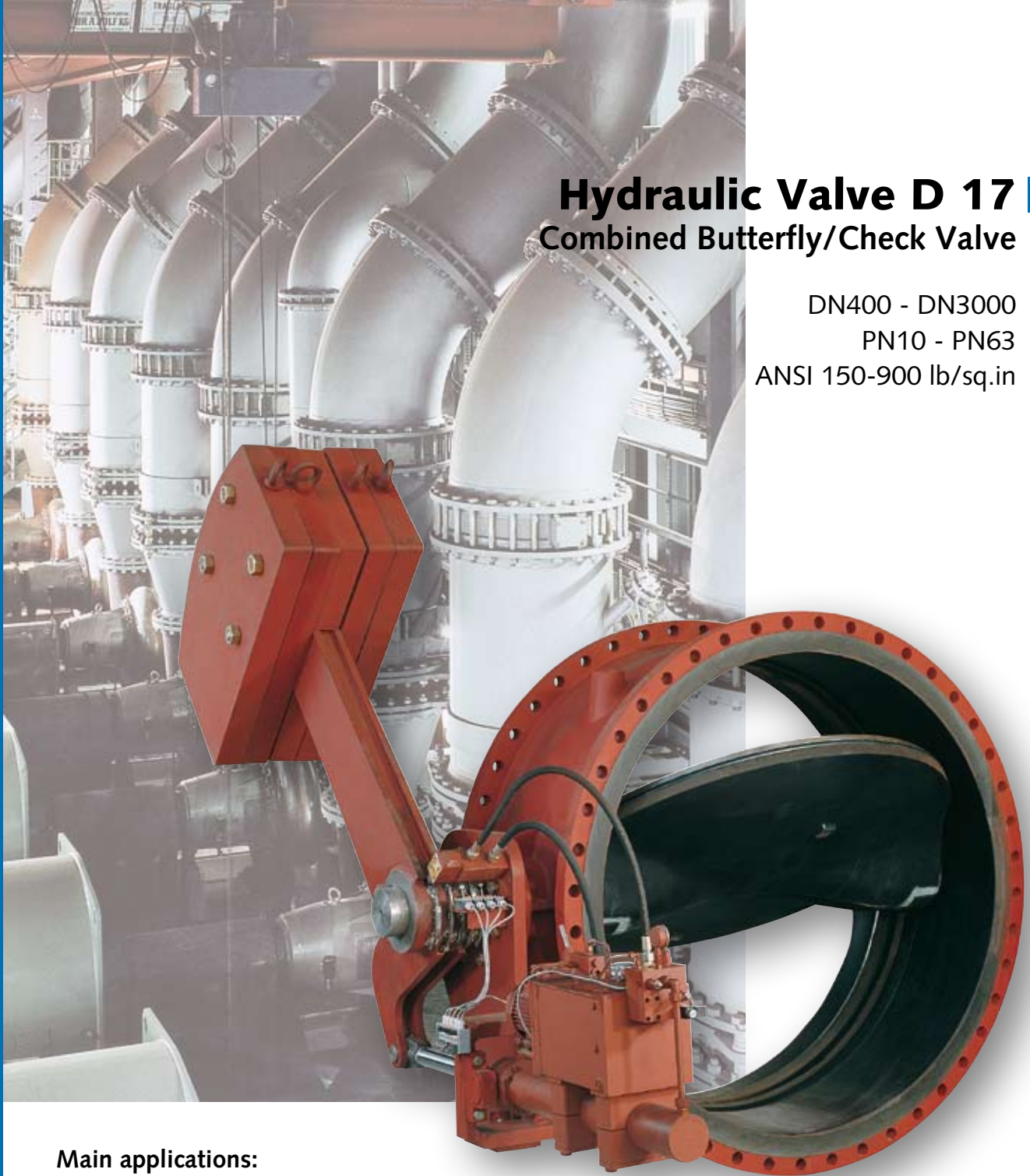
# Hydraulic Valve D 17

## Combined Butterfly/Check Valve

DN400 - DN3000

PN10 - PN63

ANSI 150-900 lb/sq.in



### Main applications:

- Protection of main cooling water pumps to prevent water hammer
- Safe and tight obturation of pipe systems especially for inspection and maintenance
- Quick shutoff of the pipe system without water hammer
- for fluids up to 130°C/40 bar corrosive and not corrosive

### Valve and Actuator Characteristics:

- combines isolating and check functions
- no water hammer, even at signal fail
- characteristics may be optimized at site
- corrosive resistant, no maintenance required



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### Combined Hydraulic Damping and Opening Unit

- the hydraulic unit opens the valve at start-signal „OPEN“ of the plant control system
- disc 100% open during signal „VALVE OPENED“ - even at very low flow velocity
- very smooth closing at signal „CLOSE“: No water hammer when closing



### Guaranteed Safety Function

- safe closing function by the energy of the drop - weight - even at fail of the plant control system
- closing time and closing characteristic remain unchanged - independant of any control-signal

### Free Choice of functional Characteristics

- Free choice of the closing speed for rapid motion and creep motion (near the „CLOSED“-position)
- Free programmable opening characteristic
- „STOP“ is possible in any intermediate position: The butterfly valve is good for control service
- All adjustments to open and close can be optimized at site during start-up of the plant

# Hydraulic Valve D 17

## Materials

Item	Standards	Alternatives
body and disc	GGG40 / larger sizes RST37-2	GGG40.3, stainless 18/8Cr/Ni, bronze or Ni-alloy
body, seat and disc lining	hard rubberlined NR	Fusion bonded Epoxy (FBE), without lining
resilient seat seal	EPDM	NBR, IIR, CSM, FPM
shaft	1.4122 / hard rubber lined	stainless Cr/Ni-alloy, bronze or „Duplex“-steel

## Internal Corrosion Protection

Type D 17a:	All inside surfaces rubberlined (= standard)
Type D 17b:	Body rubberlined, functional parts Cr/Ni-, Ni-alloy or copper-alloy
Type D 17c:	Body and disc Cr/Ni-, Ni-alloy or copper-alloy
Type D 17k:	Inside surfaces epoxy coated
Type D 17u:	Body and disc not alloyed and without internal corrosion protection, seat stainless

## External Corrosion Protection

Standard:	Shot blasted SA 21/2, primer 40µm zinc phosphate
Special:	acc. to customer specification

## Standards for Supply

• delivery conditions:	DIN3354, DIN3230, final tests: AG, BA, BN (or API 598)
• face to face dimension:	DIN3202, F4 (flanged)
• flange connection:	DIN2501, PN6-PN63, ANSI 150-900 lb/sq.in or MSS-SP44/AWWA
• rubber materials:	ASTM D1418
• Hydraulic actuator:	Power voltage: 220 to 660V, 50 or 60Hz. Control voltage 12 to 220V DC/AC
• Remark:	Closing and opening time acc. to customers specification
• Remark:	All electric/electronic connections in terminal box IP54 (= limit of supply)

## Design pressure and Type Code: D 17

<b>a</b> all inside parts rubberlined
<b>b</b> rubberlined / high alloyed
<b>c</b> valve high alloyed
<b>k</b> inside surfaces epoxy coated
<b>u</b> inside surfaces not protected



**D 17 Catalogue**  
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**S+S Armaturen GmbH** • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de