

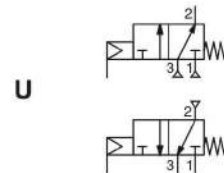


# VALVES

pressure operated  
stainless steel body

with socket welding ends PN40, DN 15 to 50

3/2  
Series  
**S398**

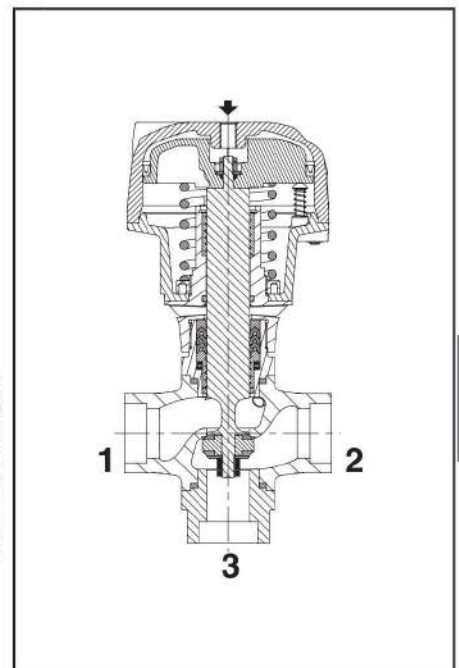


## FEATURES

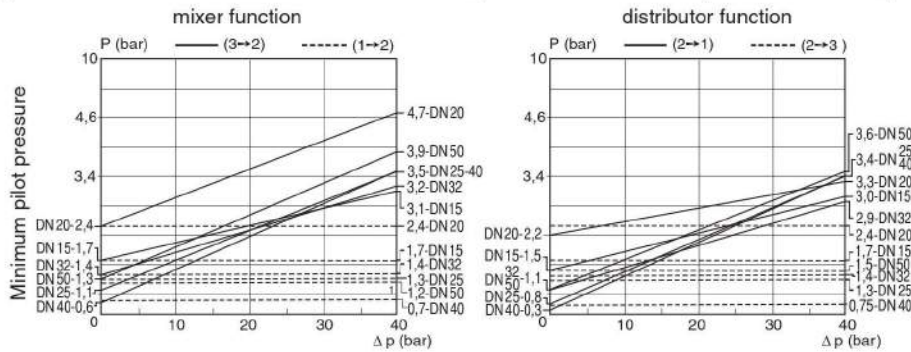
- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, maintenance-free stuffing box, resistant to thermal shock
- Mixer function (two pressure inlets at 1 or 3, one outlet at 2) or distributor function (one pressure inlet at 2, two outlets at 1 and 3)
- Vacuum operation up to  $10^{-2}$  mbar
- Allowable backpressure: up to 40 bar
- Optical position indicator as standard
- Autoclavable valve for use at high ambient temperatures (up to 180°C)
- The valves satisfy Pressure Equipment Directive 97/23/EC
- The valves in conformity with IEC 61508 Standard (2010 route 2<sub>H</sub> version) certified with integrity levels: SIL 2 for HFT = 0

## GENERAL

Differential pressure	0 to 40 bar [1 bar = 100 kPa]
Maximum allowable pressure	40 bar (within the specified limits, see diagram I)
Ambient temperature range	-25°C to +180°C
Maximum viscosity	5000 cSt (mm <sup>2</sup> /s)
Pilot fluid	Air
Max. pilot pressure	10 bar
Min. pilot pressure	See below



fluids (*)	temperature range	disc seal (*)
DN 15-20-25: air and gas groups 1 & 2 DN 32-40-50: air and gas group 2 all DN: water, oil, liquids groups 1 & 2 and steam	- 10°C to + 250°C	bronze PTFE



## CONSTRUCTION

Socket welding ends EN 12760

## MATERIALS IN CONTACT WITH FLUID

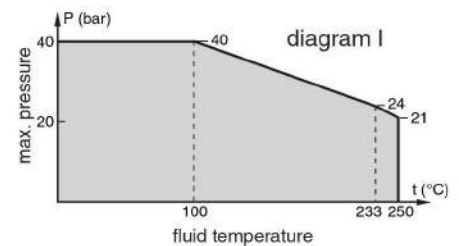
(\*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body and plug	Stainless steel
Stuffing box housing	Stainless steel
Stem, disc	Stainless steel
Stuffing box packing	PTFE chevrons
Disc seal	Bronze PTFE
Valve body seal	Graphite

## OTHER MATERIALS

Operator Aluminium, nickel plated

## SPECIFICATIONS



DN	ext. pipe diameter (mm)	flow coefficient Kv								pilot pressure (bar)		operating pressure differential (bar)	operator diameter (mm)	catalogue number
		mixer				distributor				min.	max.			
		3→2	1→2	2→3	2→1	2→3	2→1	(m <sup>3</sup> /h)	(l/min)					
<b>U - Universal</b>														
15	22,4	3,3	54	4,4	73	3,5	59	4,6	78	*	10	40	80	S398A001
20	27,7	8,0	133	7,4	123	8,1	136	7,7	129	*	10	40	100	S398A002
25	34,5	11,4	190	11,6	194	12,1	203	11,9	199	*	10	40	100	S398A003
32	43,2	18,9	316	16,6	278	17,9	299	16,6	278	*	10	40	150	S398A004
40	49,5	27	450	27	450	27	450	27	450	*	10	40	150	S398A005
50	62	51	850	51	850	51	850	51	850	*	10	40	200	S398A006

\*: Minimum pilot pressure varies with differential pressure. See piloting chart above.