



Applications

- Flow shut-off or regulation functions in all sectors of industry and energy.

Working conditions

- Temperature: from -10 °C mini up to +200 °C maxi.
The working temperature depends on the media and the nature of elastomer used.
- Allowable pressure (PS): 10 bar at room temperature.

Materials

Refer to page 2.

Standard design

- Wafer type body (Type 1): DN 40 to 1000
- Semi lug type body (Type 2): DN 40 to 600
- Full-lug type body with raised faces (Type 4): DN 40 to 600
- Flanged body with flat faces (Type 5): DN 150 to 1000
- Possible downstream dismantling and end of line for bodies Types 2, 4 and 5.
- Face-to-face dimensions in accordance with:
ISO 5752 series 20, EN 558-1 series 20.
- Connection according to standards page 9.
- Marking in accordance with EN 19.
- Mounting plate meeting the ISO 5211 standards.
- Valves perfectly tight shut-off (no visible leakage at the naked eye) in either flow direction, in accordance with the following standards:
EN 12266-1/leak level A and ISO 5208 category A.

- Body coated with polyurethane paint, thickness 80 µm, colour blue ref. RAL 5002.
- Discs: spheroidal graphite cast iron coated with epoxy paint, thickness 80 µm, colour brown ref. RAL 8012.
- The valves meet the safety requirements of the pressure Equipments Directive 97/23/EC (PED) appendix I for fluids of the groups 1 and 2.

Standard variants

- Pneumactical actuator ACTAIR / DYNACTAIR
- Electrical actuator ACTELEC
- Hydraulical actuator ACTO
- Limit switches AMTROBOX
- Positioner AMTRONIC / SMARTRONIC
- ATEX version in accordance with 94/9/EC directive

Remarks

- Actuator selection 8444.11-10
- Operating instructions 8449.8-10

Data to be supplied when ordering

- ISORIA 10 series valve in accordance with type series booklet 8444.1/9-10.
- Size.
- Working conditions :
 - Nature of fluid,
 - Pressure,
 - Flow
 - Temperature.
- Connection.
- Actuation.



Materials

Body	KSB code	
Type 1: Grey cast iron JL 1040	DN 40 to 600	3t
Spheroidal graphite cast iron JS 1030 / ASTM A536 gr.60.40.18	DN 650 to 1000	3g
Type 2: Spheroidal graphite cast iron JS 1030	DN 40 to 600	3g
Type 4: Spheroidal graphite cast iron JS 1030	DN 40 to 600	3g
Type 5: Spheroidal graphite cast iron JS 1030 / ASTM A536 gr.60.40.18	DN 150 to 1000	3g
Shafts	Code KSB	
Stainless steel 1.4029 (13 % Cr)	DN 40 to 600	6k
Stainless steel 1.4028 (13 % Cr)	DN 650 to 1000	6k
Stainless steel 1.4057 (17 % Cr)	DN 40 to 600	6e
Disc	Code KSB	
Spheroidal graphite cast iron JS 1030	DN 40 to 600	3g
Spheroidal graphite cast iron JS 1030 / ASTM A536 gr.60.40.18	DN 650 to 1000	3g
Spheroidal graphite cast iron JS 1030, coated Halar®		3a
Spheroidal graphite cast iron JS 1030, coated Ebonite®	DN 650 to 1000	3p
Spheroidal graphite cast iron JS 1030, coated EPDM	DN 40 to 300	3x
Stainless steel Type 1.4401	DN 40 to 200	6
Stainless steel Type 1.4408 / ASTM A351 gr.CF8M	DN 250 to 1000	6
Stainless steel Type 1.4401 , polished	DN 40 to 200	6i
Stainless steel Type 1.4408 / ASTM A351 gr.CF8M polished	DN 250 to 600	6i
Aluminium-bronze CC333G/C95800	DN 40 to 1000	2
NORIDUR® (G-X3 CrNiMoCu 24-6)		5d
ASTM A351 gr. CD4MCu or equivalent NORIDUR		5a
Austenitic stainless steel URANUS B6		6u
HASTELLOY C		7c
AMRING® liner	Code KSB	
E.P.D.M		XA
E.P.D.M drinking water		XC
Heat E.P.D.M		XV
High content nitrile		K
Carboxylated nitrile		CB
White carboxylated nitrile		CC
Chlorosulphoned polyethylene HYPALON®		Y
Fluorinated elastomer VITON® acid		VA
Fluorinated elastomer VITON® heat		VC
Epichlorhydrine		EG
High temperature silicone		SK
Natural rubber Polybutadiene		NB
Hydrogenated nitrile rubber HNBR		NH

Working pressure limits of AMRING® liners

DN	NPS	Allowable pressure PS in bar - Standard liners			
		XA - XC - XV - K - Y - NH - CB	VA - VC	EG	CC - SK - NB
40 to 500	1 ½ to 20	10	10	10	6
550	22				
600	24			6	
650	26			6	
700	28		6	6	
750	30			6	
800 to 1000	32 to 40		6		

Vacuum limits

DN	NPS	Liner mounting	Minimum pressure (in absolute bar)	Vacuum limits	
				Maximum temperature XV	Other liners
40-150	1 ½-6	Without sticking (Standard)	1,33 · 10 ⁻⁵ (10 ⁻² torr)	130° C	80° C
200-1000	8-40	Without sticking (Standard)	0,3	130° C	80° C
		With stick (Option)	1,33 · 10 ⁻⁵ (10 ⁻² torr)	80° C	80° C