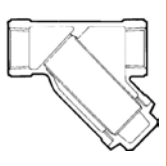
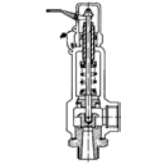
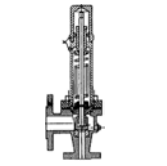
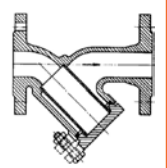

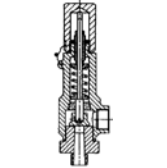
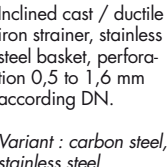
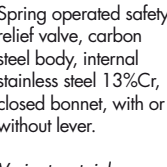
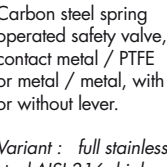
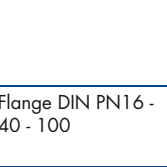
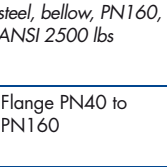
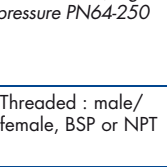
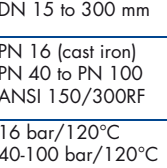
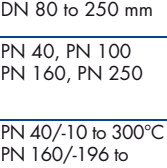
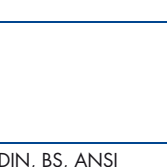
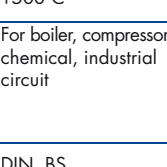
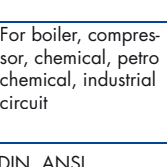





Valve Type	I Strainers	J Safety Relief valve	L Control valves
Description Materials Variant	 Inclined bronze strainer, stainless steel basket, perforation 0,65mm. <i>Variant : full stainless steel, other perforations</i>	 Spring operated safety relief valve in bronze, contacts metal / elastomer or metal / metal, with or without lever. <i>Variant : full stainless steel, other perforations</i>	 Spring operated safety relief valve, cast / ductile iron, internal in stainless steel 13% CR, closed bonnet, with or without lever. <i>Variant : tightness seat by 'O' ring</i>
Ends	Threaded BSP	Threaded BSP or NPT, SW	Threaded BSP or NPT
Nominal Diameter	1/4"-3/8" to 4"	3/8" to 2"	3/8" to 2"
Nominal Pressure	PN 20	Class 800	PN 16-25
Press. / Temp. Range	20 bar/100°C	136 bar/38°C 52 bar/450°C	PN 16
Use			For compressor, industrial circuit
Standards	DIN, ANSI	DIN, ANSI	DIN, ANSI
Operation			For boiler, compressor, industrial circuit
			For steam, neutral or corrosive media
			Corrosive, abrasive media, high or low temperature, paper paste, tightness class V
			DIN, ANSI
			Pneum./Elec.
			Man./Pneum./Elec.
Abbreviations	 OS&Y Outside screw and yoke	 GF Glass fiber	 SW Socket weld
	 BW Butt weld	 FI Flange	 RF Raised face
	 RTJ Ring Type Joint	 F to f Face to Face	 Man. Manual: lever, hand wheel, gear box
	 Pneum. Pneumatic actuator: spring return, double effect	 Elec. Electric actuator: 1/4 turn, multi-turns	
	 Inclined cast / ductile iron strainer, stainless steel basket, perforation 0,5 to 1,6 mm according DN. <i>Variant : carbon steel, stainless steel</i>	 Spring operated safety relief valve, carbon steel body, internal stainless steel 13%Cr, closed bonnet, with or without lever. <i>Variant : stainless steel, below, PN160, ANSI 2500 lbs</i>	 Carbon steel spring operated safety valve, contact metal / PTFE or metal / metal, with or without lever. <i>Variant : full stainless steel AISI 316, high pressure PN64-250</i>
	 Flange DIN PN16 - 40 - 100	 Flange DIN PN16, ANSI 150 RF	 Flange PN40 to PN160
	 Threaded : male/female, BSP or NPT	 Threaded : male/female, BSP or NPT	 Threaded : male/female, BSP or NPT
	 Valves for special use: Oxygen, cryo., high corrosion, high abrasion.		
	 Pneumatic actuator double effect or spring return.		
	 Electric actuator: 1/4 turn, multi turn & linear. Adapting, mounting & testing in workshop.		
	 Large range of solenoid & automatic valves BURKERT. Brass, copper., stainless steel, plastics.		
	 Bimetallic steam trap with strainer, disc and control device integrated. For small and large steam plant.		
	 Valves for special use: Oxygen, cryo., high corrosion, high abrasion.		
	This brochure was designed to serve as quick reference to the project engineers, advisers, buyers, users of valves. It does not claim to be exhaustive. If you wish a precise information on materials, operating conditions, torques...		
	Contact us: Tel. +32 4 229 39 29 Fax +32 4 229 38 29 direction@cobepex.be		
	<i>The technical data summarized in this leaflet appear only as information and must be confirmed by the technical department.</i>		

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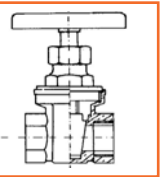
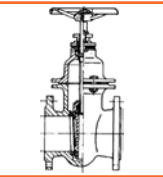
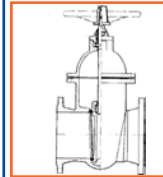
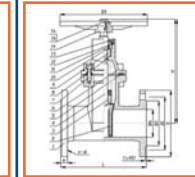
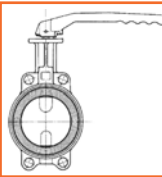

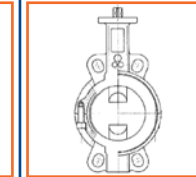
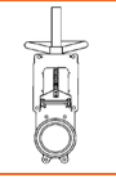
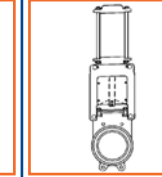
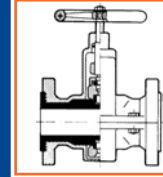
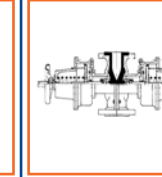
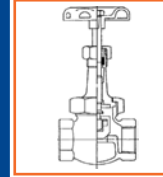
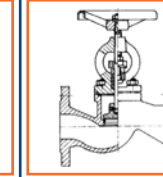
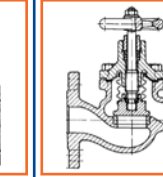

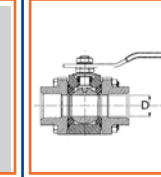
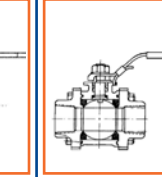



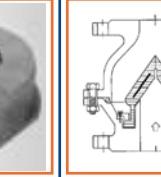
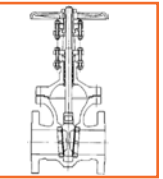
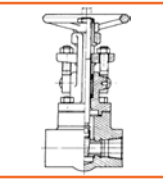
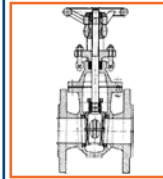
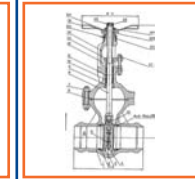
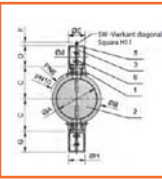
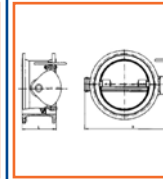
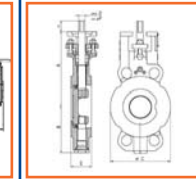
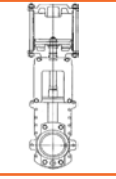

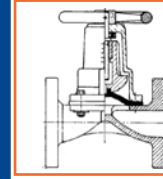

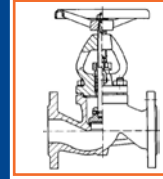
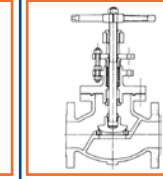
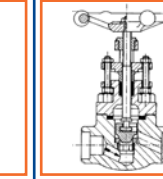

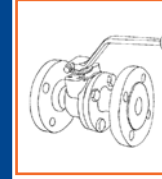
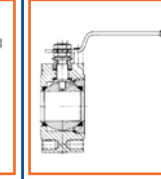
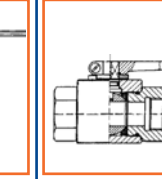
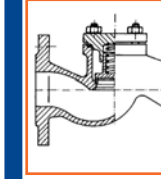
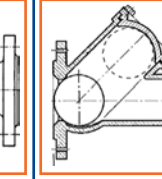
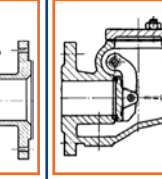
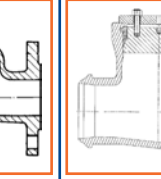
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Industrial valves



Valve Type	A Gate valves				B Butterfly valves			C Knife gate valves		D Diaphragm valves		E Globe valves				F Ball valves			H Check valves			
Description Materials Variant	 Bronze or brass gate valve, screwed or union bonnet.	 Cast iron gate valve, internal or rising external stem, seat contact metal/metal, flat or oval body.	 Ductile iron gate valve, flat or oval body, seat contact metal/metal, internal stem, hand wheel or key operation, epoxy or bitumen internal / external coating.	 Resilient seat gate valve, ductile iron internal / external rilsan or epoxy coating, fda compliance, short or long pattern, hand wheel or key operation. <i>Maintenance free</i>	 Cast/Ductile iron butterfly valve, liner in EPDM or nitrile, disc in brass, iron+epoxy, copper alloys, stainless steel. Lever operated, wafer with (or without) centring eyes or lug type. <i>Maintenance free</i>	 Cast/ductile iron butterfly valve, elastomeric replaceable liner, anti-blow out stem, cast/ductile iron disc, copper alloys or stainless steel, wafer with (or without) centring eyes or lug type. <i>Maintenance free</i> <i>Variant: hallar coating, Uranus B6</i>	 Butterfly valve with PTFE liner, elastomeric bearing, two parts body, in carbon steel, stainless steel disc or lined. <i>Variant: cast/ductile iron body, stainless steel</i>	 Knife gate valve, body and gate stainless steel, bi-directional tightness, metal / metal or metal / elastomer. <i>Variant: cast/ductile iron, deflector, control diaphragm, gear box</i>	 Knife gate valve, body and gate stainless steel, bi-directional tightness, metal / metal or metal / elastomer. Pneumatic actuator. <i>Variant: cast/ductile iron body, pneumatic actuator spring return or electric</i>	 Diaphragm pinch valve, full bore, aluminium body lined, diaphragm natural rubber (or butyl, neoprene, Viton,...) Hand wheel operated, pneumatic or electric actuator.	 Diaphragm pinch valve, double pneumatic operation, complete tightness under silo, aluminium, natural rubber diaphragm.	 Bronze globe valve, union or screwed bonnet, metal / metal or metal / PTFE contact. <i>Variant: inclined seat, full stainless steel 316</i>	 Cast / Ductile iron globe valve, internal in stainless steel, rising stem with hand wheel, straight type. <i>Variant: control plug disc, full stainless steel, angle type, inclined type, 03 ways, soft contact</i>	 Cast / ductile iron globe valve with bellows, internal stainless steel, straight type. <i>Variant: control plug disc, full stainless steel, nodular iron</i>	 Brass ball valve, chromated brass ball, PTFE, full bore. <i>Variant: 03 ways, TOTAL type for compressed air, gas, industrial vacuum</i>	 03 pieces bolted body ball valve, cast/forged steel, stainless steel ball, RPTFE seat, fire safe according BS, anti-static. <i>Maintenance free</i> <i>Variant: full stainless steel, 03-04 ways, deadman lever device</i>	 03 pieces bolted body ball valve, stainless steel 316, stainless steel ball, PTFE seat 15% GF reinforced, anti-static. <i>Maintenance free</i> <i>Variant: cast / ductile iron, 01-02 pieces body, flanged ends, 03 ways</i>	 Brass check valve, with disc and spring, nitrile gasket. <i>Variant: full stainless steel 316, pressure class PN16 to PN250, with KEL-F or PTFE gasket, gas or compressed air use</i>	 Bronze piston type check valve, with or without spring, union or screwed bonnet, metal / metal contacts or metal / elastomer.	 Full stainless steel check valve with disc and spring, metal / metal contacts, axial guiding. <i>Variant: contact metal / elastomer</i>	 Diaphragm check valve, cast iron body, elastomer diaphragm with integrated metallic lame. <i>Variant: ductile iron body, special lining for water, rilsan lining, brass and full stainless steel model with threaded ends, etc...</i>	
Ends	Threads NPT, BSP	DIN, ANSI flange	DIN flange	DIN flange	Wafer/lug between flange DIN PN10 /16 or ASA 150 RF	Wafer/lug between flange DIN PN10/16 or ASA 150 RF	Wafer/lug between flange DIN PN10/16 or ASA 150 RF	Wafer/lug between flange DIN PN10 or ASA 150 RF	Wafer/lug between flange DIN PN10 or ASA 150 RF	Flange DIN PN10, threaded BSP	Flange DIN PN10	Threaded BSP, NPT	Flange DIN PN16	Flange DIN PN16	Threaded BSP, NPT	Threaded BSP, SW, BW, Flange PN40, 150/300/600 RF	Threaded BSP & NPT, SW, BW	Threaded BSP, NPT	Threaded BSP & NPT	Wafer between flange ISO PN6-40, ANSI 125/300	Flange ISO PN10-16, threaded BSP	
Nominal Diameter	1/4" to 4"	DN 40 to 1200mm	DN 40 to 1200mm	DN 40 to 200 mm	DN 32 to 800 mm	DN 32 to 800 mm	DN 32/40 to DN 400	DN 50 to 1000 mm	DN 50 to 1000mm	DN 10 to 250mm	DN 80 to 200 mm	1/4" to 4"	DN 15 to 600 mm	DN 15 to 300 mm	1/4" to 4"	1/4" to 4"	1/4" to 4"	1/4" to 2 1/2"	3/8" to 2"	DN 15 to 100 mm	DN 50 to 700 mm 1/2" to 3"	
Nominal Pressure	PN 10 PN 16 to 64	PN 10	PN 10 to PN 40	PN 10-16-25	PN16 up to DN150, PN10 over	PN16 (acc. DN)	PN10-16	PN 10	PN 10	PN2 to PN10 (acc. DN)	PN2 to PN 3,5 (acc. DN)	PN 16 to PN 50 125 lbs to 300 lbs	PN 16	PN 16	PN 16/25 to PN 50	PN 100, Class 800	PN 64/100	PN10 PN16-250 (stainless steel)	PN 16	PN 40	PN 10-16	
Press. / Temp. Range	10 bar/110°C 10 bar/180°C	10 bar/120°C	10 bar/120°C to 40 bar/110°C	25 bar/110°C	16bar/110°C up to DN150	16bar/120°C acc. DN & materials	-40 to +200°C	10 bar/120°C	10 bar/120°C	6bar/80°C (DN50) 2bar/80°C (DN200) acc. Liner	3,5 bar / 80°C	16 to 40 bar/100°C	16 bar/120°C 10 bar/200°C	16bar/120°C 10bar/300°C (except thermic oil)	25 to 50bar/45°C or 12bar/150°C (acc. DN)	105bar/38°C or 10bar/250°C steam max. 10bar	64bar/100°C 10bar/180°C steam max. 7bar	10bar/95°C 250bar/20°C (stainless steel)	16 bar/120°C to 6 bar/200°C	40bar/120°C, max. acc. DN & materials	16bar/120°C, max. acc. DN & materials	
Use	ON/OFF service, without flow control	ON/OFF service, without flow control	ON/OFF service, without flow control, neutral media, potable water	ON/OFF service, without flow control, neutral media, potable water, waste water	Shut off service, approximate control, for general circuits, heating	Shut off service, approximate control, for industrial circuits	Corrosive media	Shut off service, powder, waste media, paper paste	Shut off service, powder, waste media, paper paste	Waste media, abrasive, corrosive, cement, powder. Not for vacuum or T°	Shut off & control under silo liquids or powders	Shut off, approximate control, for neutral media, steam	Shut off, control, not for steam	Shut off, control, for thermic oil, steam, primary vacuum	Shut off general use	Shut off, corrosive and neutral media, natural gas, LPG,...	Shut off, for neutral and light corrosive media	High tightness at low and mid-low pressure, for neutral media, proper, compressed air	For neutral media, steam, compressed air	All position of mounting, for steam, compressed air, neutral media	All position of mounting, anti-water hammer, low noise and head losses	
Standards	BS, DIN	DIN F4 / F5, NF, ANSI	DIN F4 / F5	BS, DIN F4 / F5	F to F acc. K1	F to F acc. K1	F to F acc. K1	F to F acc. Manufacturer	F to F acc. Manufacturer	DIN, BS	BS	BS	DIN	DIN	Fire Safe acc. BS	BS, DIN, ANSI		F to F acc. K4 up to DN200, K5 over	F to F acc. DIN F6, ISO			
Operation	Hand wheel	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Pneum./Elec.	Man./Pneum./Elec.	Pneum.	Man./Pneum.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man. / Pneum.	Man. / Pneum.	Man. / Pneum.					
Description Materials Variant	 Cast steel gate valve, OS&Y or internal screw, internal trim 13%Cr or stellite, monoblock or flexible wedge. <i>Variant: high temperature and alloy steel, though conduit.</i>	 Forged steel gate valve, bolted bonnet, OS&Y, contact 13%Cr, F6/stellite, full stellite. <i>Variant: full stainless steel, alloys, cryogenic.</i>	 Cast steel gate valve, internal trim 13%Cr or stellite, monoblock or flexible wedge. Internal or external stem, according NFE standards. <i>Variant: full stainless steel.</i>	 Parallel slide gate valve, without flow control, neutral media, potable water, waste water. <i>Variant: high T° steel, standard bonnet, PN16 to PN250</i>	 High temperature butterfly valve, tightness 99 to 99,9%, body and disc in cast iron / steel / stainless steel, gasket acc. use T°, shaft extension	 Double flange butterfly valve, centric or eccentric disc, body and disc in cast/ ductile iron, stainless steel, vulcanized liner on the body or disc seat. <i>Maintenance free</i>	 High performance butterfly valve, pressure seal bonnet, bolted bonnet, alloy & carbon steel, stellite seats. <i>Variant: high T° steel, standard bonnet, PN16 to PN250</i>	 Knife gate valve, high pressure, body in carbon steel, bi-directional tightness, metal / metal or metal / elastomer, pneumatic actuator <i>Variant: hand wheel operated, electric actuator</i>	 Knife gate valve through conduit, cast/ductile iron body, steel, butyl, neoprene and other diaphragm, hand wheel operated with position indicator <i>Variant: full stainless steel, deflector cone, control diaphragm</i>	 Diaphragm valve, weir or straight trough, unlined/lined cast/ductile iron body, steel, butyl, neoprene and other diaphragm, hand wheel operated with position indicator <i>Variant: stainless steel body, glass lined body</i>	 Diaphragm valve with spring return pneumatic actuator, polished stainless steel body, no retention zone, PTFE/butyl, EPDM, PTFE/Viton, ...	 Cast steel globe valve, internal stainless steel, straight type, hand wheel operated, acc. DIN <i>Variant: full stainless steel 316, with bellows, control plug disc, 'y' inclined type, 03 ways, stellite contacts</i>	 Cast steel globe valve, internal F6, OS&Y, back seat, according ANSI standards <i>Variant: full stainless steel 316, stellite seats, angle type, inclined type</i>	 Forged steel globe valve, OS&Y, internal F6 <i>Variant: forged stainless steel, duplex, inclined type, with bellows, stem extension, hastelloy seat, stellite seats, cryogenic, pressure seal bonnet</i>	 Cast steel globe valve, high performance, pressure seal bonnet, integral backseat, stellite seats <i>Variant: 03 ways, full stainless steel, reduced bore, top entry, welded body</i>	 02/03 pieces bolted body, cast steel, full bore, stainless steel ball, RPTFE seats, anti-static, fire safe. <i>Maintenance free</i> <i>Variant: 03 ways, full stainless steel, reduced bore, top entry, welded body</i>	 Wafer type ball valve, carbon or stainless steel body, PTFE seats, full bore, full metallic or polyamide reinforced. <i>Maintenance free</i>	 High pressure ball valve, carbon steel body, chromated ball, polyamide seats, Buna o ring, reduce or full bore. <i>Variant: 03 or 04 ways</i>	 Check valve in cast steel or cast / ductile iron, piston type with spring, internal stainless steel. <i>Variant: full stainless steel, disc and spring wafer type</i>	 Ball type check valve, cast / ductile iron lined body, rubber coated ball, visit door. <i>Variant: foot valve with strainer, special lining, full stainless steel</i>	 Swing check valve, cast / ductile iron, metal / metal contact or metal / rubber, visit door. <i>Variant: carbon steel, stainless steel, wafer type, single or double plates 'DUO-CHECK'</i>	 Swing check valve pressure seal cover, high pressure, body and cover in carbon steel A216WCB, stellite contacts. <i>Variant: piston type and spring</i>
Ends	DIN, ANSI flange, RF, RTJ, BW	NPT, SW, BW Flanges DIN, ANSI	Flange ISO PN10-16	BW, flanges	Wafer between flange PN6/PN10 or PN16	Flange DIN PN10/16/25 ANSI	Wafer/lug between flange DIN PN10/16 or ASA 150/300 RF	Wafer/lug between flange DIN PN25 or ASA 150 RF	Wafer/lug between flange DIN PN10 or ASA 150 RF	Threaded BSP, flange PN10	Tri-clamp, BW	Flange PN25 to PN100, BW	Flange ANSI150 to 2500, RF, RTJ, BW	NPT, SW, BW, Flange class150 to 2500lbs	Flange class 900 to 2500 lbs, RF, RTJ, BW, SW	Flange PN16/25/40 ANSI 150 - 2500	Wafer between flange PN16/25	Threaded BSP	Flange DIN PN 16/40 ANSI 150-2500, BW	Flange DIN PN10, threaded BSP	Flange PN16/40-100, Wafer PN16-40, ANSI 150-2500, BW	Flange ANSI 900-1500, BW
Nominal Diameter	DN40-600, 1 1/2 to 30 in	1/4" to 2"	DN 40 to 300	DN 50 to DN 400	DN 50 to 900 mm	DN 50 to 1400 mm	DN 50 to 300 mm	DN 50 to 1000 mm	DN 50 to 1000 mm	DN 15 to 350 mm	DN 8 to 50 mm	DN15 to 600mm	1"1/2 to 12"	1/4" to 2"	2"1/2 to 14"	1/2" to 24"	DN 15 to 200 mm	1/8" to 2"	DN 15 to 300 mm	DN 50 to 350 mm	DN 50 to 600 mm	3" to 24"
Nominal Pressure	PN 16 to PN 100, ASA 150 to 2500 lbs	ASA800 to 2500 lbs, 150 to 2500 lbs flanged	PN 16 to PN 100	PN 100 to PN 250	PN 2,5 to PN 16	PN 10/16/25	PN50 for DN50 to 100, PN20 for DN125 to DN300	PN 25	PN 10	PN 3 to PN 10	PN 6 to PN 10	PN 25 to PN 100	Class 150 to Class 2500	Class 800 to 2500 lbs	Class 900 to 2500 lbs	PN16-250, Class 150 to 2500 lbs	PN 16	PN 320-500	PN 16 PN 40	PN 10	PN 16 PN 40 to PN 100	Class 900 to 1500 lbs
Press. / Temp. Range	16 bar/120°C to 100 bar/525°C	136 bar/38°C or 52 bar/450°C or 255 bar/38°C	16bar/110°C to 10 bar/300°C and 10 bar/110°C (DN250-300)	+/-155 to 258 bar at 38°C, acc. Steel grade, pressure class	2,5 to 16 bar / -200°C to 650°C (acc. DN)	10bar/120°C (EPDM), 10-25bar/40°C (NBR)	20 bar at 180°C, 1.3bar at 600°C, DN125-300, 16,7bar at 600°C, DN50-100	25bar at 100°C, max. pressure acc. DN & materials	10bar at 100°C, max. pressure acc. DN & materials	7bar/80°C 3bar/80°C acc. DN & Materials	10°C to 140°C acc. Diaphragm	25 bar/120°C to 100 bar/110°C	19,6bar/38°C max. 51,1bar/38°C 102,1bar/450°C	136bar/38°C 52bar/540°C to 255bar/38°C 100bar/450°C	155bar/50°C 108bar/425°C	19,3 to 50 bar/38°C 10 bar/200°C	16 bar/100°C	320 to 500 bar/100°C	16 bar/120°C 40 bar/120°C to 23bar/400°C	10 bar/80°C	16bar/120°C (PN16 and acc. DN & seat contacts)	144 bar/425°C 38 bar/600°C
Use	ON/OFF service, steam, oil & gas	ON/OFF service, oil & gas	ON/OFF service, neutral / corrosive media, oil & gas	High pressure steam	Air or gas control, high temperature	Shut off service, approximate control, piping, pumping system	Severe industrial service, fire safe	Shut off service, powder, paper paste	Shut off service or control (+diaphragm), pneumatic transport of powder, paper paste	Shut off, approximate control, waste media, high viscosity, dem.water, acid/base, water	Shut off, for food and pharmaceuticals industry	Shut off, approximate control, for steam	Shut off, approximate control, for chemical / petro chemical products	Shut off, approximate control, for petro chemical products	Shut off, approximate control, for petro chemical products, power plant	Shut off, for industrial service, petro chemical	Shut off, for neutral media, compressed/surpressed air	Shut off, for hydraulic	Horizontal mounting preferable, for steam (not cast iron), neutral media	Waste et muddy water, low open pressure, low head losses	Full port, proper wafer (low waste concentration), low head losses	For steam, high pressure
Standards	DIN F4-F8, B16.10, API, ASME	API, BS	NF E 29-327	ANSI B16.34, B16.10, NFE29311, ISO	DIN 3202 K1	DIN F4	F to F acc. K1	F to F acc. Manufacturer	DIN, ANSI	DIN, BS		DIN	API, ANSI	API, ANSI	ANSI	DIN, ANSI, BS	DIN	DIN	DIN	DIN	ANSI, ISO, DIN	
Operation	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Elec	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Pneum.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.	Man./Pneum./Elec.				