

Fire-Safe

Merkmale / Features

- D**
- Zweiteiliger Kugelhahn
 - Voller Durchgang
 - Fire safe design (optional)
 - TA-Luft VDI 2440
 - DVGW (optional)
 - Antistatiskaufführung
 - ausblässichere Schaltwelle
 - Silikonfrei
 - Flansch für direkten Antriebsaufbau ISO 5211
 - Optional verschiedene Dichtsysteme
 - Baulänge nach DIN EN 558-1
 - Flanschmaße nach DIN EN 1092-1
 - Temperatur: -20°C ... +180°C
 - Temperatur Gas: -20°C ... +60°C

- E**
- Two-Part ball valve
 - Full bore
 - Fire safe design (optional)
 - TA-Luft VDI 2440
 - DVGW (optional)
 - Antistatic device
 - Blow out proof stem
 - Siliconfree
 - Flange for direct actuator mounting ISO 5211
 - Optional different seal systems
 - Face to face acc. DIN EN 558-1
 - Flange dimensions acc. DIN EN 1092-1
 - Temperature: -20°C ... +180°C
 - Temperature gas: -20°C ... +60°C

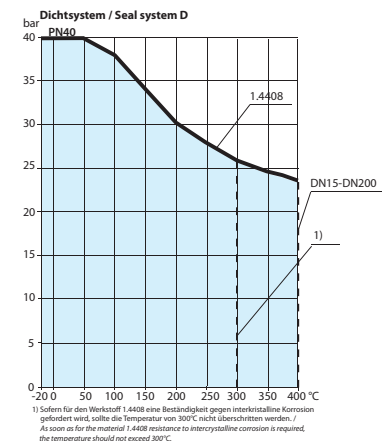
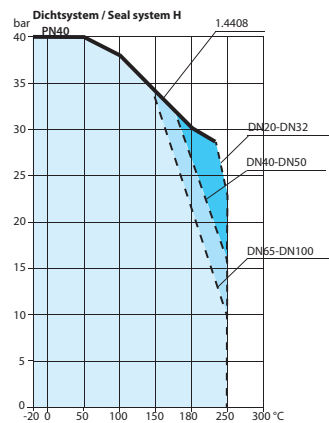
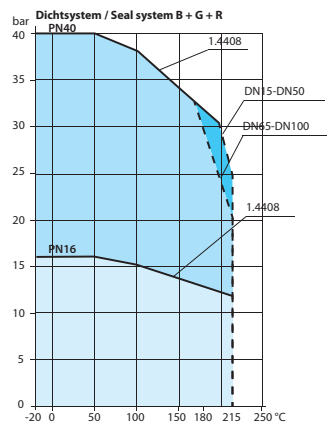
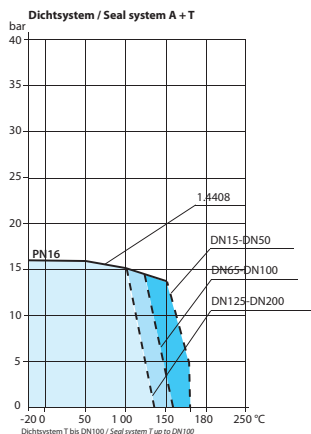
Werkstoffe / Materials

Pos.	Bauteil / Part	Material
1	Gehäuse / Body	1.4408
2	Kugel / Ball	1.4408
3	Kugeldichtung / Ball seal	see variants
4	Flansch / Flange	1.4408
5	Schaltwelle / Stem	1.4401
6	Scheibe / Washer	1.4301
7	O-Ring	see variants
8	Griff / Handle	1.4301
9	Dichtung / Gasket	see variants
9.1	O-Ring	FKM Viton
10	Anlaufring / Bearing ring	PTFE + GF
11	Anschlag / Stop pin	Edelstahl / Stainless steel
12	Packung / Packing	see variants
13	Tellerfeder / Spring plate	1.4310
14	Federring / Clip ring	A2
15	Mutter / Nut	1.4404
16	Druckstück / Pressure piece	A2
18	Schraube / Screw	A2



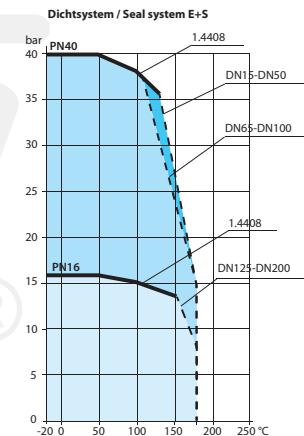
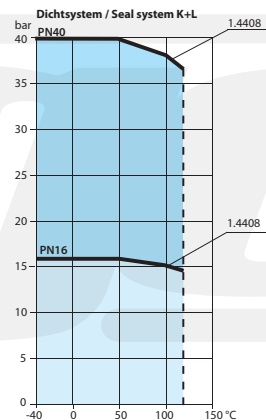
Masse / Dimensions [mm]

DN	PN	L										DIN ISO 5211	Weight			
		R27	R1	H	R	SW	h	D	g	K	b		z	d	R27	R1
15	16 / 40	115	130	99	138	9	9	95	45	65	15	4	14	F03	2,35	2,55
20	16 / 40	120	150	104,5	138	9	9,5	105	58	75	17,5	4	14	F03	2,95	3,35
25	16 / 40	125	160	109	165	11	12,5	115	68	85	17,5	4	14	F05	4,1	4,5
32	16 / 40	130	180	120,5	165	11	12,5	140	78	100	17,5	4	18	F05	5,6	6,2
40	16 / 40	140	200	132,5	200	14	14	150	88	110	17	4	18	F05	6,65	7,35
50	16 / 40	150	230	140,5	200	14	14	165	102	125	19	4	18	F05	9,1	9,8
65	16	170	290	163	230	17	18	185	122	145	17,5	4	18,5	F07	13,3	15,85
65	40	170	290	163	230	17	18	185	122	145	21	8	18,5	F07	14,3	17,3
80	16 / 40	180	310	196	365	22	22,2	200	138	160	23	8	18,5	F10	19,2	22
100	16	190	350	212,5	365	22	22,3	220	158	180	19	8	18,5	F10	25,5	29,9
100	40	190	350	212,5	365	22	22,3	235	162	190	23	8	22,5	F10	32	34,4
125	16	325		238,5	565	27	27	250	188	210	21	8	18,5	F10 / F12	46,2	
150	16	350		260,5	565	27	27	285	212	240	21	8	22,5	F10 / F12	71	
200	16	400		303	745	27	28	340	268	295	23	12	22,5	F12 / F14	125	



Schaltmomente / Operating torque [Nm]

Druck / Pressure [bar]	0			7			16			25		40	
	DN	A+T	B+G+R	E+S	A+T	B+G+R	E+S	A+T	B+G+R	E+S	B+G+R	E+S	
15	5	3	1	4	2	2	6	3	1	3	2	4	2
20	6	3	4	6	4	5	7	4	5	5	4	6	5
25	9	6	4	8	5	5	10	5	5	6	5	8	5
32	14	10	7	13	11	8	15	10	8	10	8	13	9
40	23	12	8	22	9	9	24	12	9	14	9	17	11
50	35	12	9	32	12	15	28	13	22	16	27	24	35
65	50	19	10	39	24	17	42	35	22	36	25	50	38
80	53	22	15	41	25	20	44	34	30	38	28	50	35
100	60	55	15	42	68	35	56	82	55	89	67	105	90
125	40	60	20	80	100	25-40	100	160	40-60				
150	60-80	60	25-40	100	140	125	160	290	190				
200	100	80	40-60	110	350	210	350	480	380				



Dichtungssysteme / Seal systems

Dichtungssystem / Seal system	A	B	D	E	G	H	K	L	R	S	T
Kugeldichtung / Ball seal	PTFE	PTFE / TFM	Antimony Carbon	PTFE + GF	PTFE + TFM	PEEK	PTFE + TFM	PTFE	PTFE + TFM	PTFE + GF	PTFE Cavity Filler
Spindeldichtung / Stem seal	PTFE + FKM	PTFE + FKM	Graphite	PTFE + FKM	Graphite	Graphite	VMQ + PTFE	VMQ + PTFE	FKM + PTFE + Graphite (fire safe)	FKM + PTFE + Graphite (fire safe)	PTFE + FKM
Gehäusedichtung / Body seal	PTFE + FKM	PTFE + FKM	Graphite	PTFE + FKM	Graphite	Graphite	VMQ + PTFE	VMQ + PTFE	Graphite + FKM	Graphite + FKM	PTFE + FKM
Zulassungen / Certifications	TA-Luft / Vd-TÜV / PED / Gas PN16	TA-Luft / Vd-TÜV / PED / Gas PN40		TA-Luft / Vd-TÜV / PED	TA-Luft / Vd-TÜV / PED	PED	PED	PED		TA-Luft / Fire safe / ISO 10497	TA-Luft / PED
Druckstufe / Pressure class	PN16	PN40	PN16 / PN40	PN16 / PN40	PN16 / PN40	PN16 / PN40	PN40	PN16	PN40	PN16	PN16
Geeignetes Medium / Suitable medium	Gas / Oxygen / Nitrogen	Gas / Nitrogen	Hightemperature- or Heat transfer oil	Water / Compressed Air / Isocyanat dry / Polyol dry / Fuels / Oils / Solvents	Steam	High temperature	Low temperature	Low temperature	Fire Safe	Fire Safe	
Bemerkungen / Remarks			for max. 300°C		≤ DN50 max. 215°C, 21bar ≤ DN100 max. 212°C, 20bar	max. 250°C	-40°C	-40°C			