

Fire-Safe

Merkmale / Features

- D**
- Zweiteiliger Kugelhahn
 - Voller Durchgang
 - Fire safe design (optional)
 - TA-Luft VDI 2440
 - DVGW (optional)
 - Antistatikausführung
 - 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**
- 2-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	1.0619
2	Kugel / Ball	1.4408
3	Kugeldichtung / Ball seal	see variants
4	Flansch / Flange	1.0619
5	Schaltwelle / Stem	1.4404
6	Scheibe / Washer	Stahl verzinkt / Steel zinc plated
7	O-Ring	see variants
8	Griff / Handle	Stahl verzinkt / Steel zinc plated
9	Dichtung / Gasket	see variants
9.1	O-Ring	FKM Viton
10	Anlaufring / Bearing ring	PTFE + GF
11	Anschlag / Stop pin	Stahl verzinkt / Steel zinc plated
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	8.8

Masse / Dimensions [mm]

DN	PN	L				R	SW	h	D	g	K	b	z	d	DIN ISO 5211	Weight	
		R27	R1	H	R1											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		

KH122

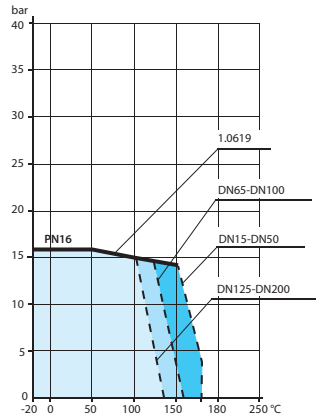
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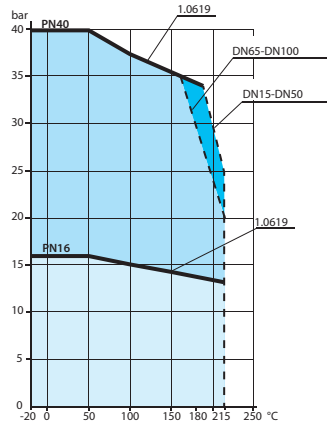
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Dichtsystem / Seal system A+T

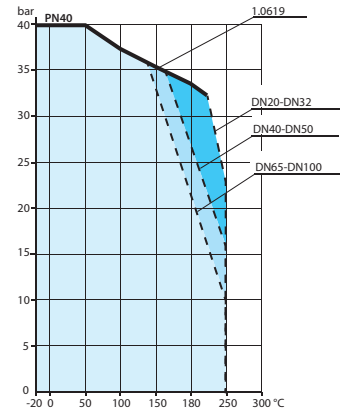


Dichtsystem T bis DN100 / Seal system T up to DN100

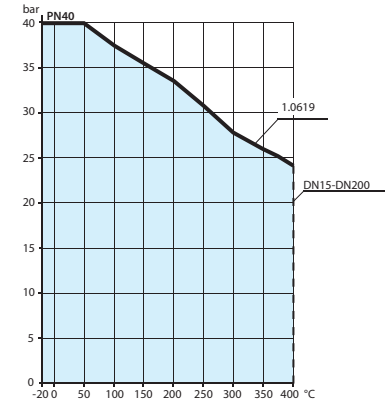
Dichtsystem / Seal system B+G+R



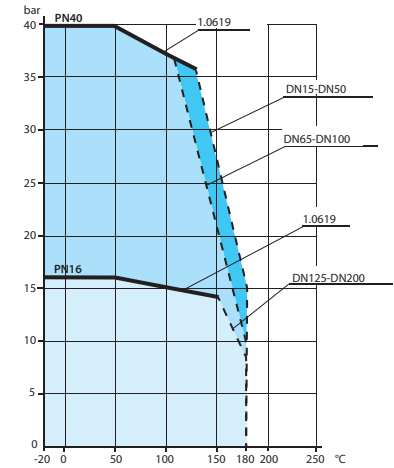
Dichtsystem / Seal system H



Dichtsystem / Seal system D



Dichtsystem / Seal system E+S



Losbrechmomente der Dichtsysteme / Breakaway torque acc. to seal system [Nm]

Druck / Pressure [bar]	0					7					16					40				
	DN	A	T	B+G+R	D+H	E+S	A	T	B+G+R	D+H	E+S	A	T	B+G+R	D+H	E+S	B+G+R	E+S		
15	4	5	7	---	5	4	5	7	---	5	4	4	7	---	5	7	5	5		
20	8	9	13	20	8	8	9	13	20	8	8	8	13	25	8	13	9	9		
25	9	12	15	25	9	9	12	15	25	9	9	9	15	35	9	15	11	11		
32	18	15	35	40	18	18	15	35	40	18	18	18	35	60	18	35	25	25		
40	20	17	40	50	20	20	17	40	50	25	20	20	40	70	25	45	35	35		
50	30	30	50	70	30	30	30	50	70	30	30	30	50	90	30	70	50	50		
65	55	50	60	90	40	55	50	60	90	45	55	55	60	120	55	80	65	65		
80	85	75	100	120	60	85	75	100	120	60	95	95	110	140	65	120	90	90		
100	100	100	110	150	90	100	100	110	150	90	110	110	120	150	105	140	120	120		
125	115	---	140	---	100	125	---	140	---	100	145	---	170	---	120	---	---	---		
150	180	---	200	---	120	210	---	200	---	150	230	---	250	---	190	---	---	---		
200	400	---	400	---	250	420	---	400	---	250	450	---	450	---	400	---	---	---		

Dichtungssysteme / Seal systems

Dichtungssystem / Seal system	A	B	D	E	G	H	R	S	T
Kugeldichtung / Ball seal	PTFE	PTFE / TFM	Antimony Carbon	PTFE + GF	PTFE + TFM	PEEK	PTFE + TFM	PTFE + GF	PTFE Cavity Filler
Spindeldichtung / Stem seal	PTFE + FKM	PTFE + FKM	Graphite	PTFE + FKM	Graphite	Graphite	FKM + PTFE + Graphite (fire safe)	FKM + PTFE + Graphite (fire safe)	PTFE + FKM
Gehäusedichtung / Body seal	PTFE + FKM	PTFE + FKM	Graphite	PTFE + FKM	Graphite	Graphite	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		TA-Luft / Fire safe / ISO 10497	TA-Luft / PED
Druckstufe / Pressure class	PN16	PN40	PN16 / PN40	PN16 / PN40	PN16 / PN40	PN16 / PN40	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	Fire Safe	Fire Safe	
Bemerkungen / Remarks			for max. 400°C		≤ DN50 max. 215°C, 21bar ≤ DN100 max. 212°C, 20bar	max. 200°C			