

Ball Valve M1

General:

- Body material: PP / PP-Pure
PVDF/ PVDF-UHP
- Seal material: EPDM / FPM
- Ball seating joint: PTFE
- Dimensions: OD20 – OD110

Connector types¹:

PP

- Butt + IR-welding
- Socket welding

PP-Pure

- Butt + IR-welding

PVDF

- Butt + IR-welding
- Socket welding

PVDF-UHP

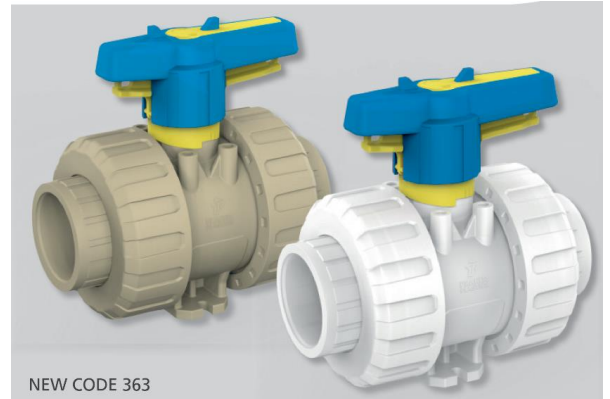
- Butt + IR-welding

Operating pressure

- PPOD20 – OD110 PN10
- PVDF OD20 – OD110 PN16

Technical features:

- Silicone free
- Union with buttress thread
- Safety locking handle
- Floating ball
- Double sided blocked ball
- Adjustable ball seating joint
- Integrated fixations for bracket mounting
- Radial installation or removal
- Integrated bottom mounting stand
- Easy mounting of actuator



SAFETY LOCKABLE HANDLE SYSTEM

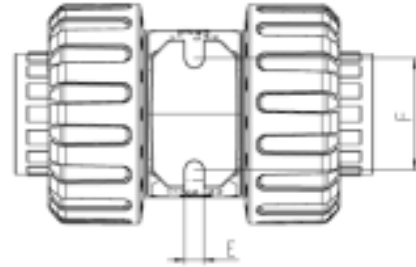
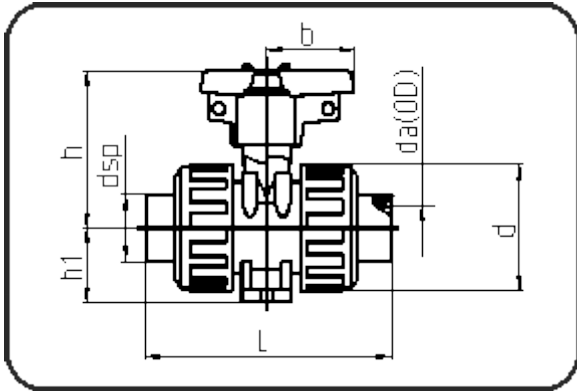


This document does not constitute a guarantee, it is for initial information purposes only. The product range is continually upgraded, the designs and types therefore only reflect the state of the art at the time of printing. Subject to technical modifications!

¹ Other connector types on request

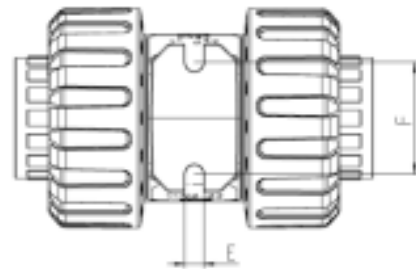
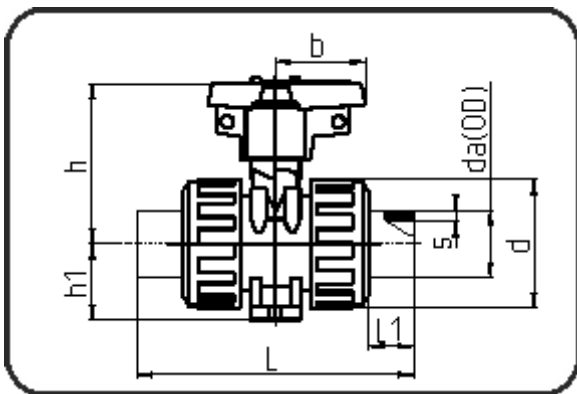


Dimensions:



PP
Socketwelding

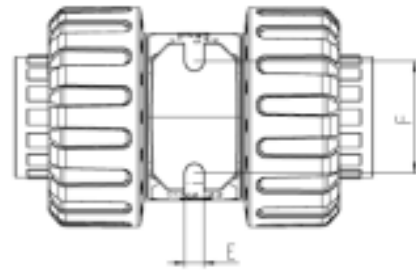
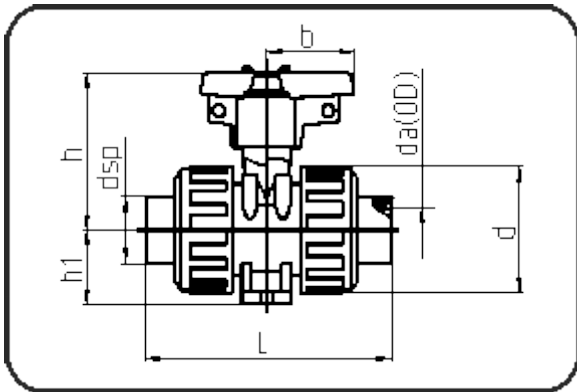
da(OD)	20	25	32	40	50	63	75	90	110
d	58	68,5	75,5	92	108	127,5	160	196,5	196,5
dsp	27,3	35,7	41,3	52,8	58,6	73,6	86		
h1	33	40	43,5	51	56,5	64,5	85	100	100
h	74,5	83	85,5	104,5	113	121,5	151,5	167	167
b	40	51,5	51,5	64	73	85	110	132	132
L	98,5	113	123	141	165	194,5	231	283,5	291,5
PN	10	10	10	10	10	10	10	10	10



PP / PP-Pure
Butt + IR-welding

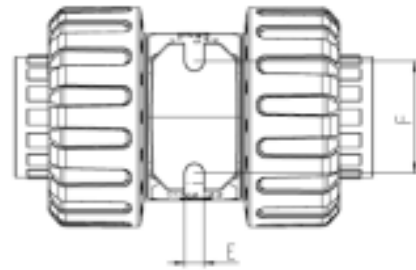
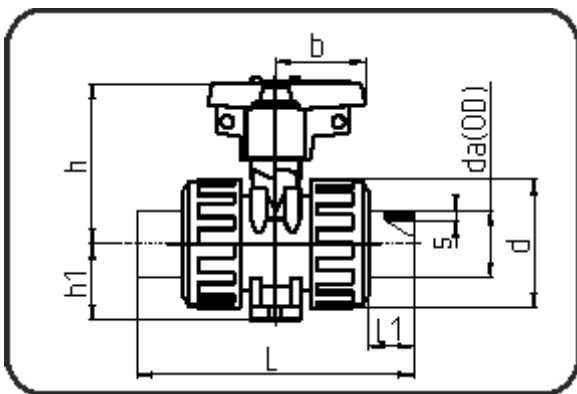
da(OD)	20	25	32	40	50	63	75	90	110
d	58	68,5	75,5	92	108	127,5	160	196,5	196,5
s	1,9	2,3	2,9	3,7	4,6	5,8	6,8	8,2	10,0
h1	33	40	43,5	51	56,5	64,5	85	100	100
h	74,5	83	85,5	104,5	113	121,5	151,5	167	167
b	40	51,5	51,5	64	73	85	110	132	132
L1	14	15,5	18	20,5	23,5	27,5	31	36	40
L	124	143	151	171	191	221	275	292	316,5
PN	10	10	10	10	10	10	10	10	10





PVDF
Socketwelding

da(OD)	20	25	32	40	50	63	75	90	110
d	56,5	67	73,5	90	105,5	124,5	157,5	192,5	192,5
dsp	27,3	35,7	41,3	50	58,6	73,6	86		
h1	33	40	43,5	51	56,5	64,5	85	100	100
h	74,5	83	58,5	104,5	113	121,5	151,5	167	167
b	40	51,5	51,5	64	73	85	110	132	132
L	99	112	123	141	163	194	228,5	282	251
PN	16	16	16	16	16	16	16	16	16

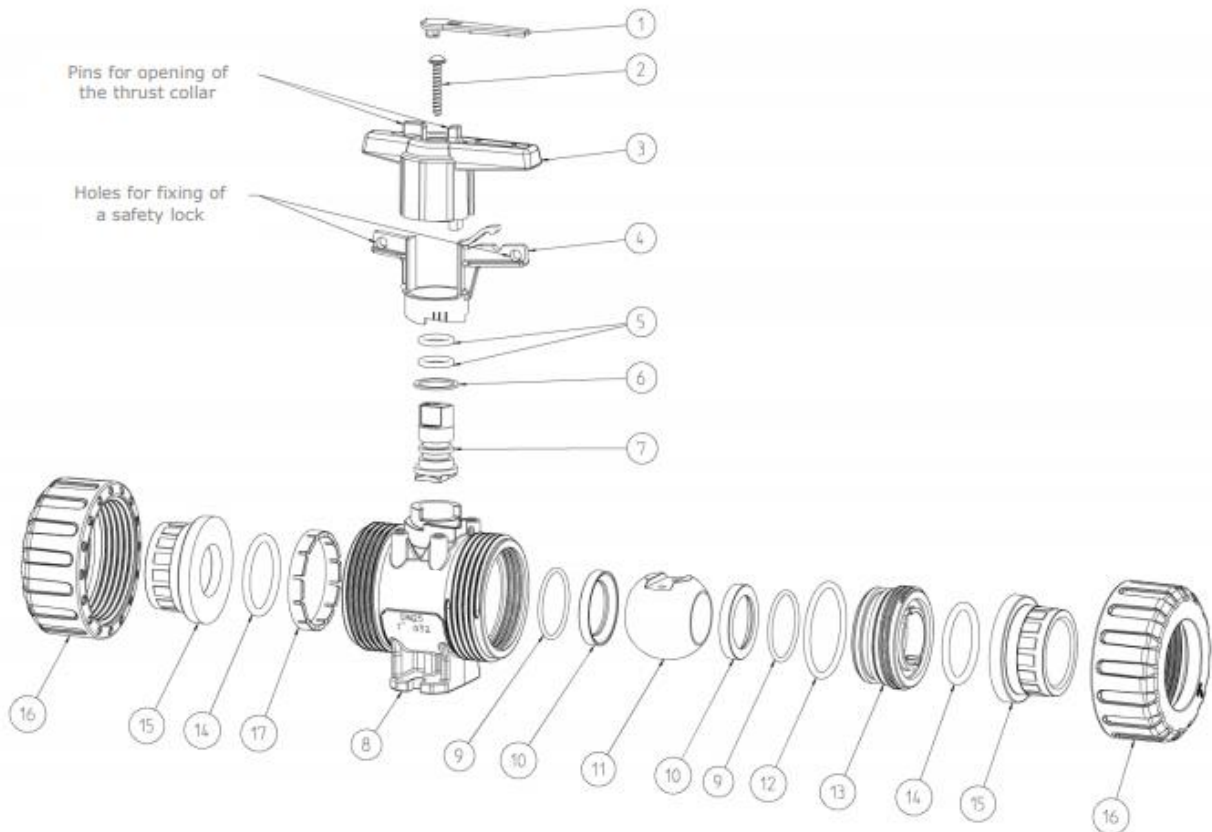


PVDF / PVDF-UHP
Butt + IR-welding

da(OD)	20	25	32	40	50	63	75	90	110
d	56,5	67	73,5	90	105,5	124,5	157,5	192,5	192,5
s	1,9	1,9	2,4	2,4	3	3	3,6	4,3	5,3
h1	33	40	43,5	51	56,5	64,5	85	100	100
h	74,5	83	85,5	104,5	113	121,5	151,5	167	167
b	40	51,5	51,5	64	73	85	110	132	132
L1	14	15,5	18	20,5	23	27	31,5	36	40
L	124	143	152	171	190	221	278	290,5	318,5
PN	16	16	16	16	16	16	16	16	16



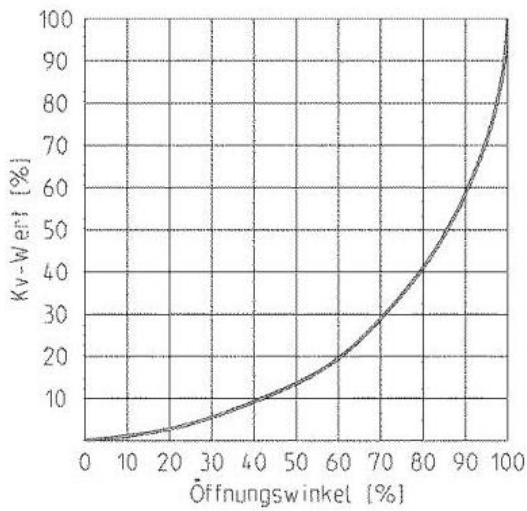
Exploded drawing:



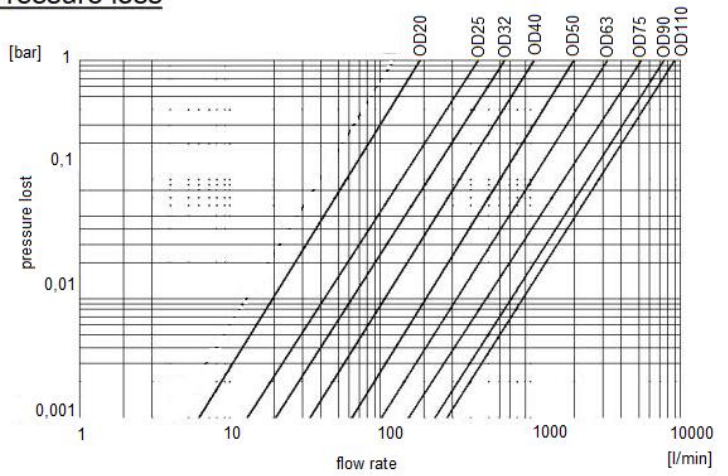
1. Labelling plate
2. Screw
3. Handle
4. Spring loaded locking sleeve
5. O-ring
6. PTFE washer
7. Shaft
8. Body
9. O-ring
10. Ball seating joint
11. Ball
12. O-ring
13. Thrust collar
14. O-ring
15. Connector (Butt+IR-welidng, Socket welding)
16. Union
17. Reinforcement ring (only for PP / PP-Pure)

Diagrams:

Flow characteristics



Pressure loss



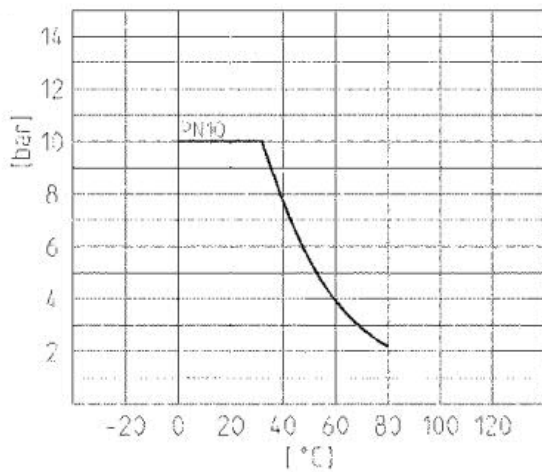
Cv Value Table:

Pressure lost	OD20	OD25	OD32	OD40	OD50	OD63	OD75	OD90	OD110
0,001 bar	6,0	13,9	20,6	34,2	62,6	102,5	164,4	237,1	279,8
1 bar	190	440	650	1080	1980	3240	5200	7500	8850

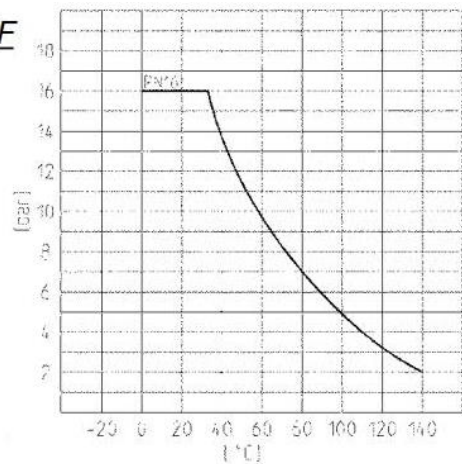
[l/min]

Pressure - temperature

PP

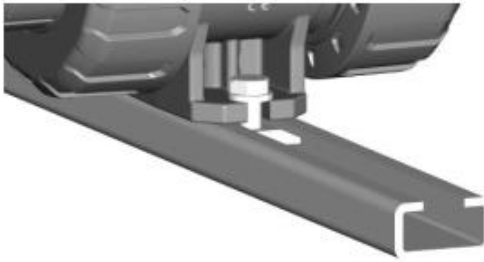


PVDF

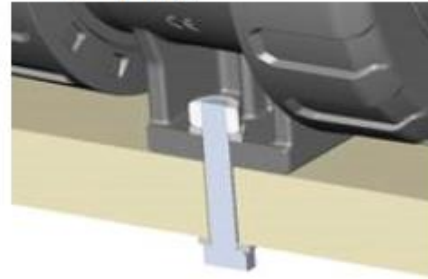


Bottom mounting stand – mounting possibilities:

- Assembly rail



- Plate



- Masonry / Concrete
 - Hanger screw and dowel required



AGRU Kunststofftechnik GmbH

Ing. -Pesendorfer-Str. 31
A-4540 Bad Hall
Österreich / Austria

General manager: Mag. Alois Gruber, Alois Gruber jun.
Registration No.: 171838 d
Commercial Court: LG Steyr

All information and statements submitted on this paper are based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve users from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws, standards and legislation are observed. The statements about all product relevant properties in our valid catalogues, documents and price lists have to be considered.

