

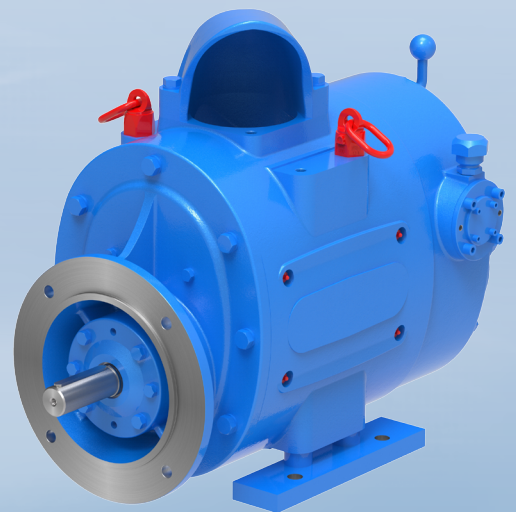
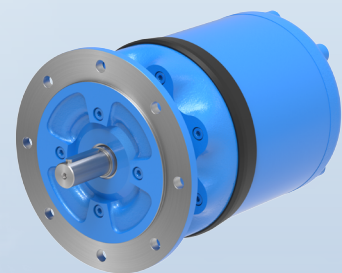


DÜSTERLOH **Fluidtechnik**

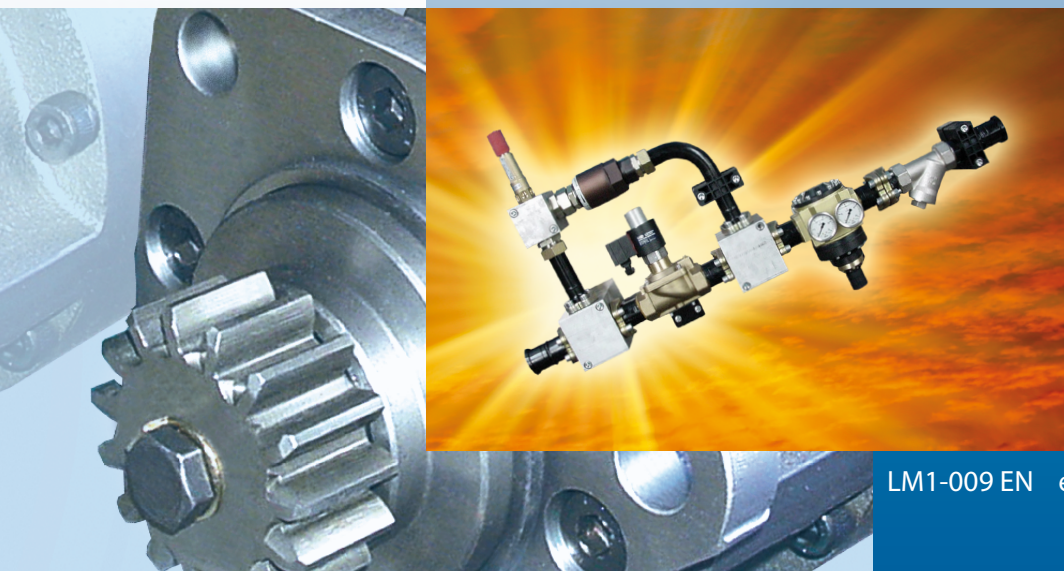
Pneumatic-motors



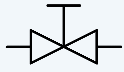
**Pneumatic motors
Pneumatic spur gear motors
DMO - PMW / accessories**



Accessories catalog



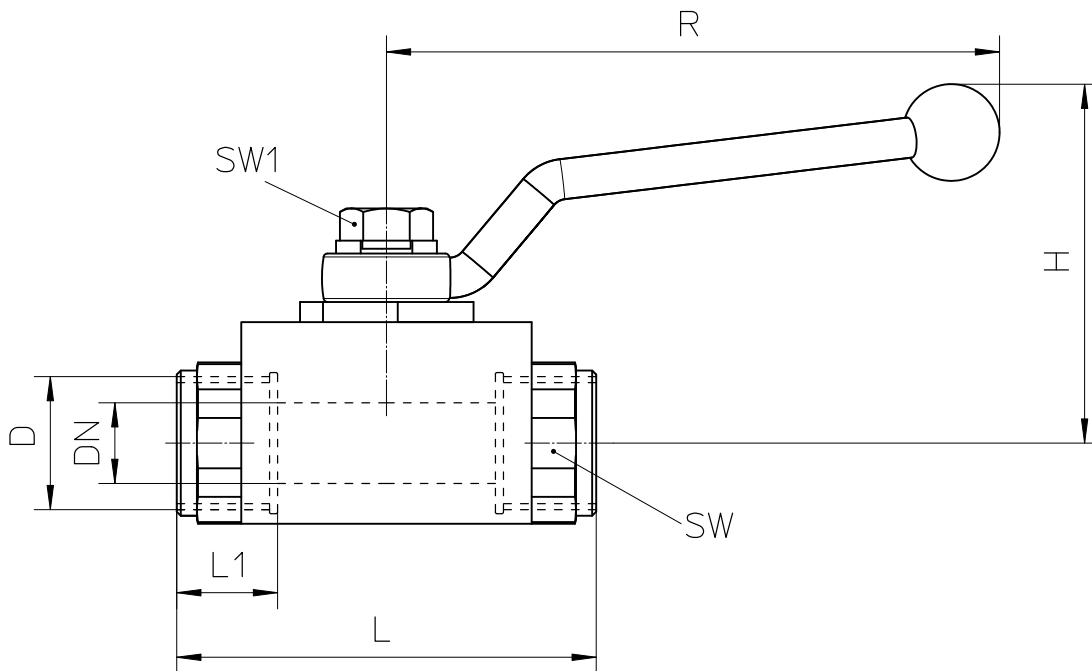
Ball valve PN 25.....	3
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Socket dirt trap working pressure up to 16 bar / 40 bar.....	6
Speed controller	7
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Air connecting flange	13
Air connecting flange with welding neck flange	14



schematic symbol ball valve

Material:

DN4 - DN25	:	stell casing
DN32 - DN50	:	cast iron casing
Ball	:	brass
Seal	:	perbunan
Connection	:	pipe thread DIN ISO 228/1



Order- no.	DN	D (inch)	H (mm)	L (mm)	L1 (mm)	R (mm)	SW (mm)	SW1 (mm)	PN (bar)	weight (kg)
20.2076.0004	4	G1/8	44	50	11	60	24	8	25	0,3
20.2076.0006	6	G1/4	44	50	12,5	60	24	8	25	0,3
20.2076.0010	10	G3/8	50	60	12,5	60	30	8	25	0,4
20.2076.0013	12	G1/2	55	75	15	100	36	10	25	0,6
20.2076.0016	16	G1/2	68	75	15	130	41	10	25	0,7
20.2076.0020	20	G3/4	70	80	18	130	46	10	25	0,8
20.2076.0025	25	G1	82	90	20	180	55	12	25	1,2
20.2076.0032	32	G1 1/4	110	110	21	205	70	16	25	2,5
20.2076.0040	40	G1 1/2	115	120	23	205	80	16	25	3,2
20.2076.0050	50	G2	125	140	24	205	100	16	25	5,2

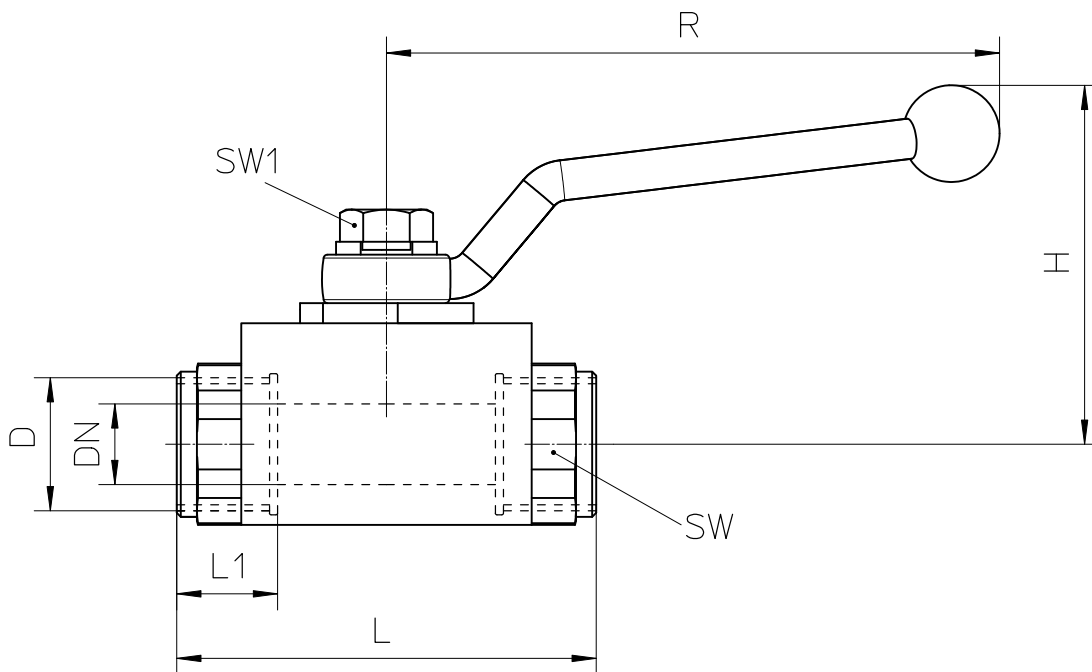




schematic symbol ball valve

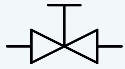
Material:

DN32 - DN50	:	cast iron casing
Ball	:	brass
Seal	:	perbunan
Connection	:	pipe thread DIN ISO 228/1



Order- no.	DN	D (inch)	H (mm)	L (mm)	L1 (mm)	R (mm)	SW (mm)	SW1 (mm)	PN (bar)	weight (kg)
20.2076.0032A	32	G11/4	110	110	21	205	70	16	40	2,5
20.2076.0040A	40	G11/2	115	120	23	205	80	16	40	3,2
20.2076.0050A	50	G2	125	140	24	205	100	16	40	5,2

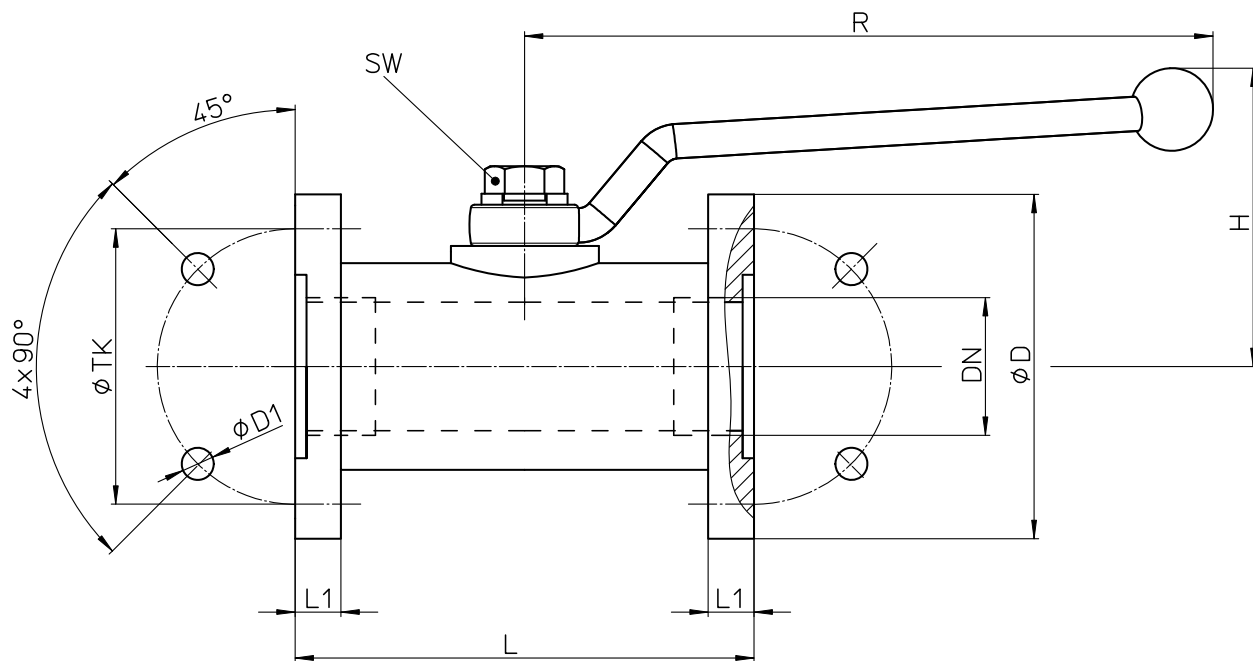




schematic symbol ball valve

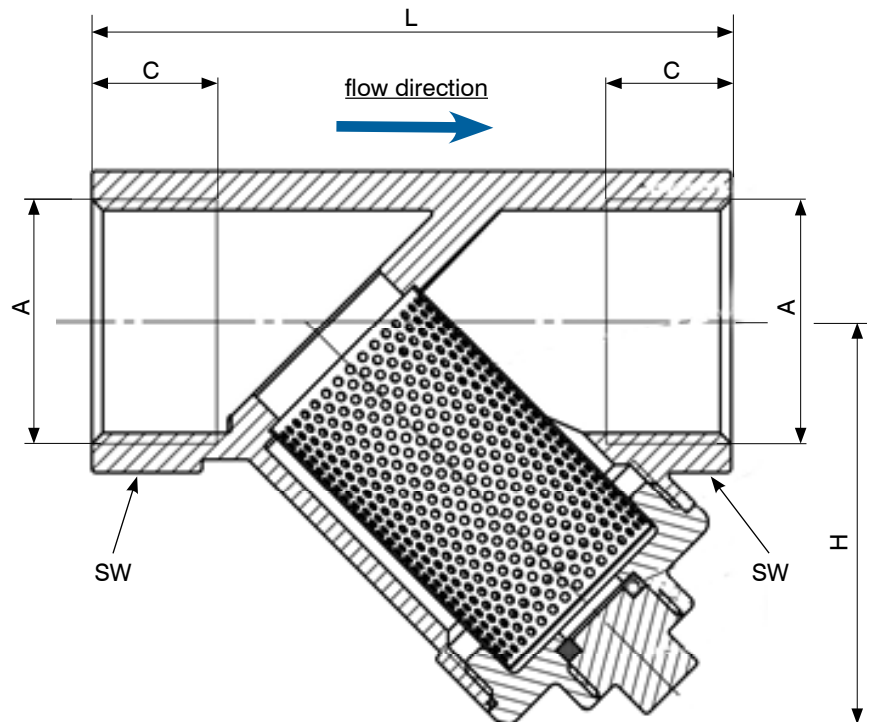
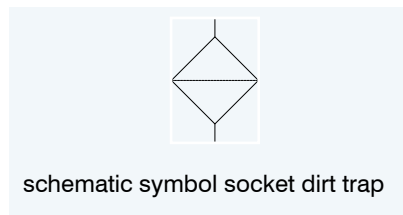
Material:

DN50 - DN80	:	cast iron casing
Ball	:	brass
Seal	:	perbunan
Connection	:	both sides flange special design



Order- no.	DN (inch)	D (mm)	D1 (mm)	H (mm)	L (mm)	L1 (mm)	R (mm)	TK (mm)	SW (mm)	PN (bar)	weight (kg)
20.2078.1050	50 G 2	150	14	130	200	20	300	120	16	63	10
20.2078.1065	65 G 2 1/2	225	14	146	250	25	300	185	16	63	17
20.2078.1080	80 G 3	225	18	160	260	25	500	185	22	63	33





Material : Brass housing or nickel-plated brass Stainless steel sieve

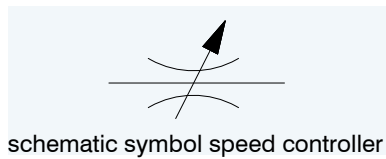
Mounting position : Sieve inclined downwards, for accumulate and settle down the dirt particles.

Flow direction : Flow direction arrow

Order- no.	A (inch)	C (mm)	H (mm)	L (mm)	SW (mm)	mesh size sieve (mm)	p (bar)	weight (kg)
20.2080.1100	G1	15	50	75	40	0,5	16	0,4
20.2080.1200	G1 1/2	17	70	105	55	0,5	16	1,0
20.2080.1300	G2	18	90	126	70	0,5	16	1,4
209990.0431	G1	14	64	90	41	0,25	40	0,7
20.9990.0420	G1 1/2	18	84	120	55	0,25	40	1,4
20.9990.0427	G2	20	102	150	70	0,25	40	2,5

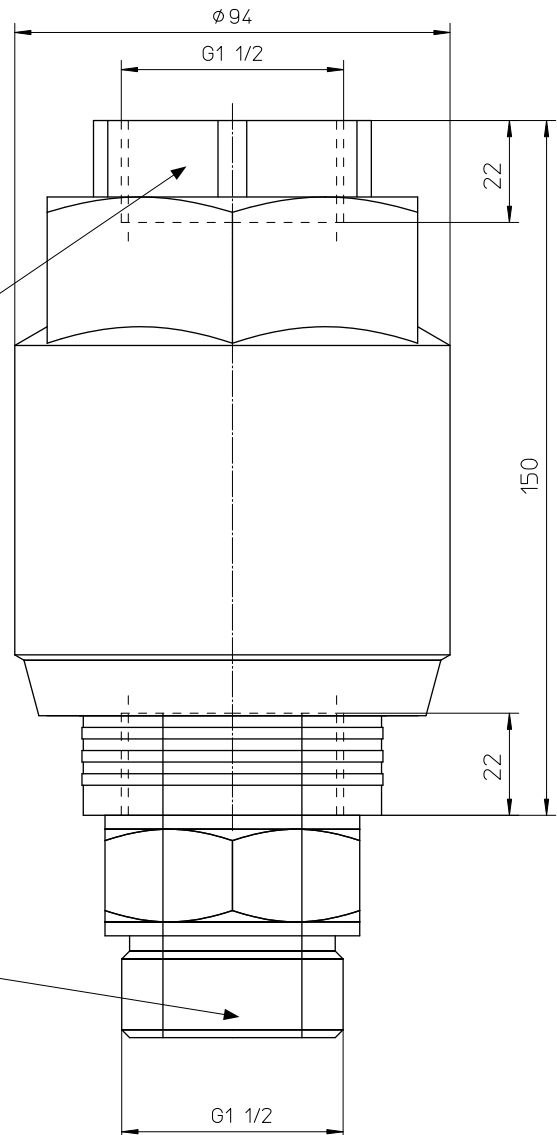
The dirt trap protects the electro-pneumatic valves against contamination. It should be always installed between the compressed air tank and pressure reducing valve. In this way, impurities such as rust flaking, scale, etc. hemp fibers retained. Failure due to clogging or leaking valves on the valve seat is thus avoided. The dirt trap is therefore increasing operational safety and reliability of both devices as well as the whole system. The filter must be periodically unscrewed and cleaned out.





Exhaust port with additional thread for a silencer.

Threaded connection to the motor housing motor type PMW 160 - PMW 530 design „W“.



The reduction takes place in both directions of flow.
The compressed air passes through the side holes to the throttle position.
This is formed between the housing and the adjustable sleeve.
By rotating the sleeve, the cross section of the throttle point is infinitely variable.

weight: 4,1 kg

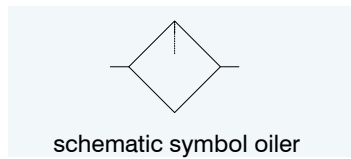
Ordering information:

exhaust throttle,cpl. on: [93.0000.0024](#)

Order- no. includes:

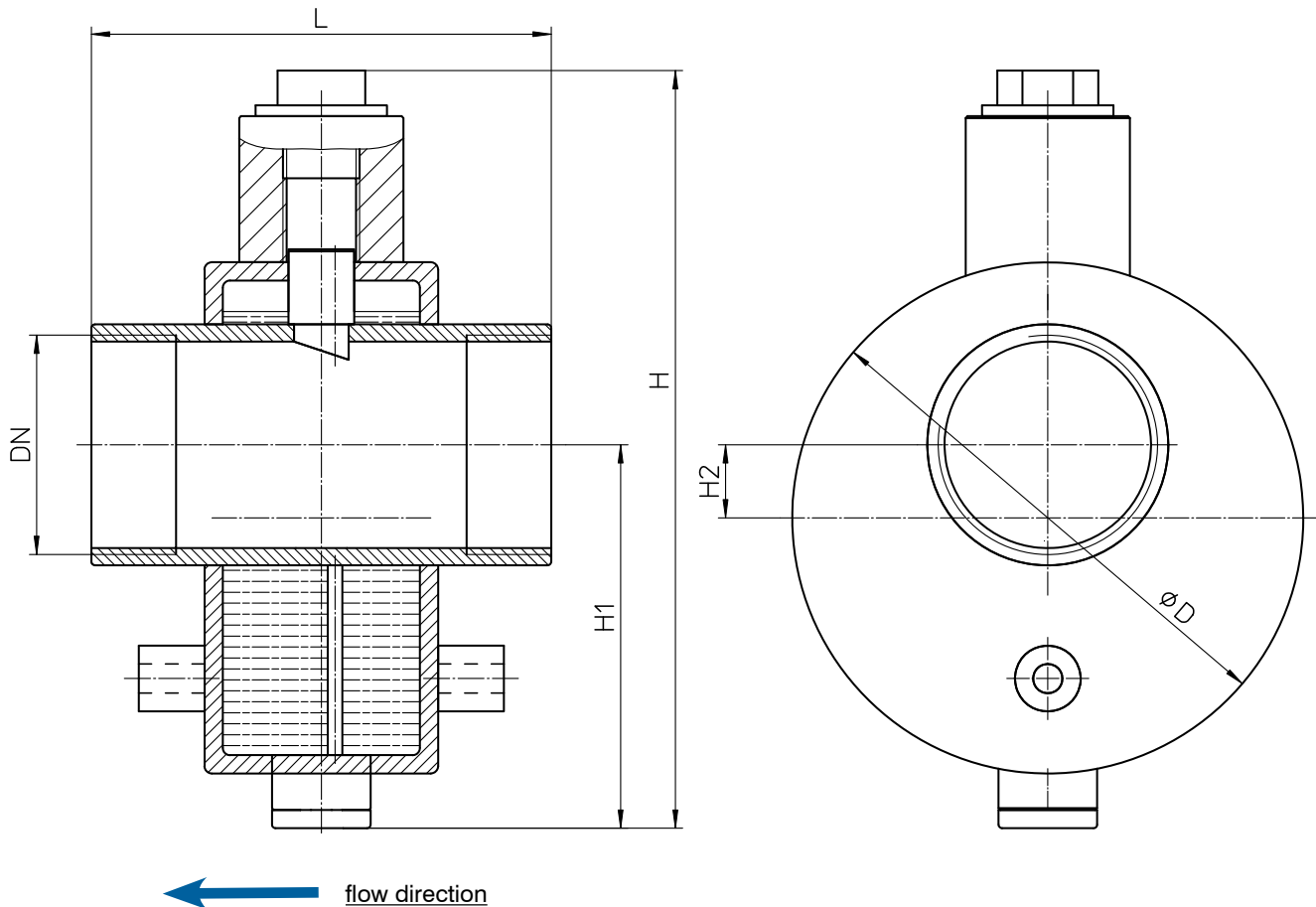
- | | |
|------------------------------------|----------------------------------|
| 1 Throttle valve NG 30 | on: 80.4121.3010 |
| 1 Double nipple G1 1/2 - G1 1/2 | on: 18.1070.1212 |
| 2 O-ring seal A48 x 55 DIN 7603 CU | on: 18.1160.1169 |





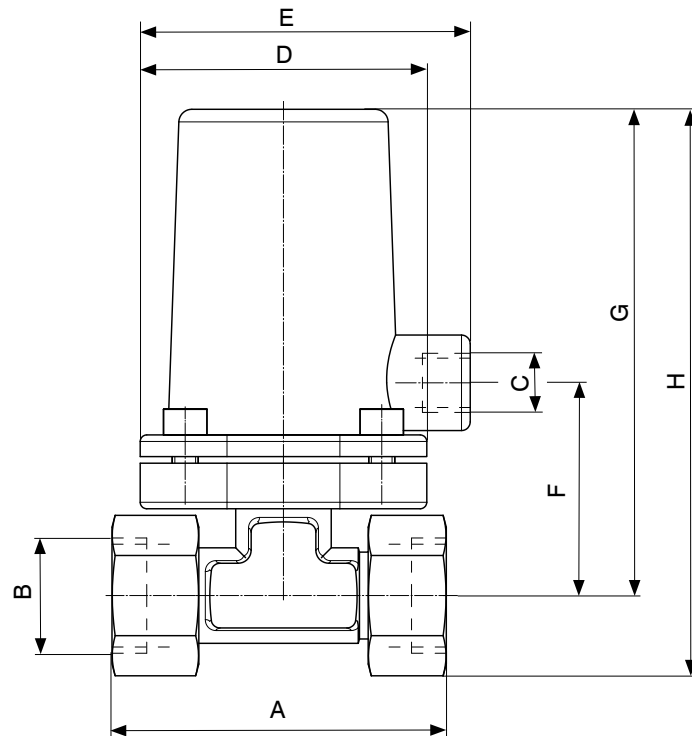
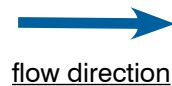
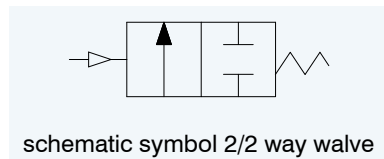
Technical data:

- Material** : type D0100 = steel casing
type 0087 = red brass casing
- Connection** : tube female thread DIN ISO 228/1
- Mounting position** : horizontal



type NW/G	order-no.	DN	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	P (bar)	V (cm ³)	m (kg)
D0100 G1 BSP	20.2020.1200	25	140	180	130	97	130	10	300	1,6
D0100 G1 1/2 BSP	20.2020.1300	40	140	210	130	126	130	10	300	2,5
D0100 G2 BSP	20.2020.1400	50	140	210	130	112	130	10	300	2,5
A0087 G2 BSP	20.2022.0000	50						20	300	





type	order-no.	A (mm)	B (Zoll)	C (Zoll)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
ARKV- 15 NG	20.2032.1100	65	G1/2	G1/8	55	61	41,5	95	109,5
ARKV- 20 NG	20.2032.1200	76	G3/4	G1/4	65	75	50	112	129
ARKV- 25 NG	20.2032.1300	91	G1	G1/4	65	75	57	119	139
ARKV- 40 NG	20.2032.1400	123	G1 1/2	G1/4	110	112	67	137	167,5
ARKV- 50 NG	20.2032.1500	150	G2	G1/4	134	134	75	153	190

Features:

building type	: seat valve
mode of operation	: normally closed
mounting position	: any
flow direction	: identified
control medium	: prepared compressed air
work medium	: compressed air
fixing possibility	: directly into the pipeline

Technical data:

working pressure range:	0 to 10 bar
ambient temperature:	- 20°C to + 80°C
medium temperature:	0°C to + 80°C

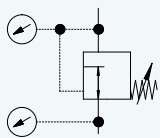
Description:

The pneumatically operated pressure relief valves are preferably suitable for compressed air, also for gases and pressurized water (only for low flow- speed and valve closing speed). The installation can be performed directly in the pipeline.

The valves can be remotely operated from somewhere (opened or closed). The compressed air supply to the actuating cylinder causes the rapid opening of the valve, for which only two switching positions are possible (opened or closed).

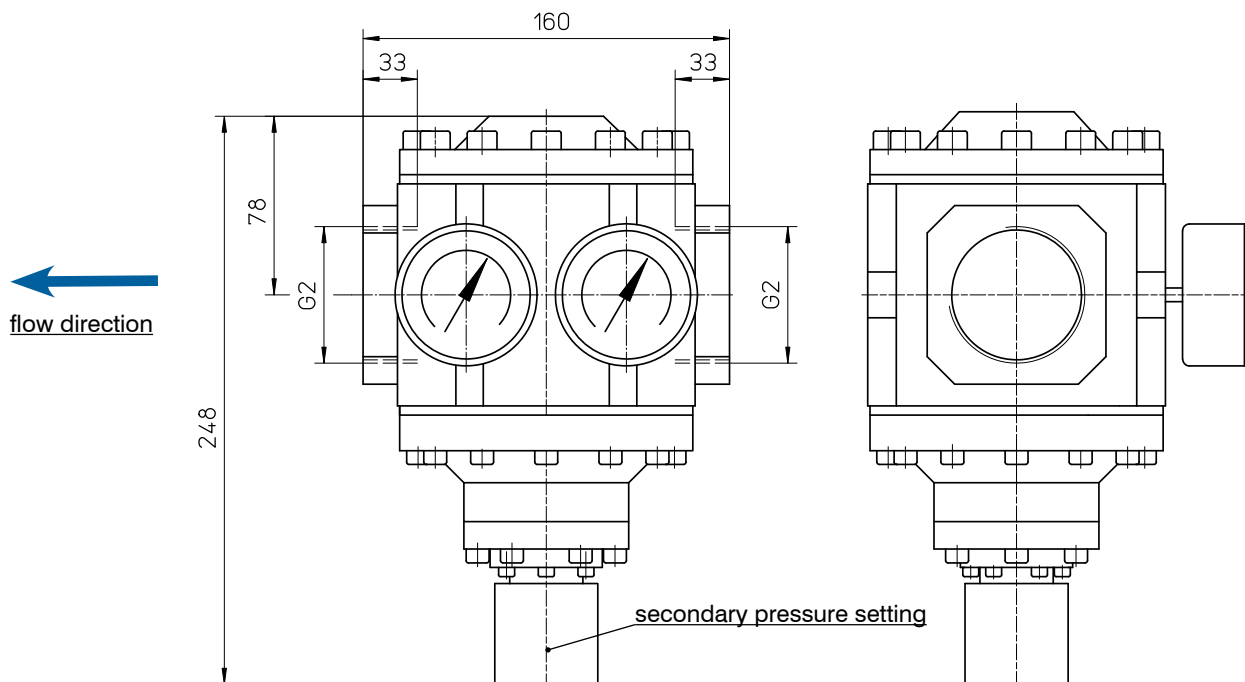
When installing, pay attention to the prescribed flow direction (arrow on the valve housing).





schematic symbol pressure reduc.valve

Order-no. pressure reducing valve: 15.9700.05A
Order-no. set of wear parts: EW417/999



Characteristics:

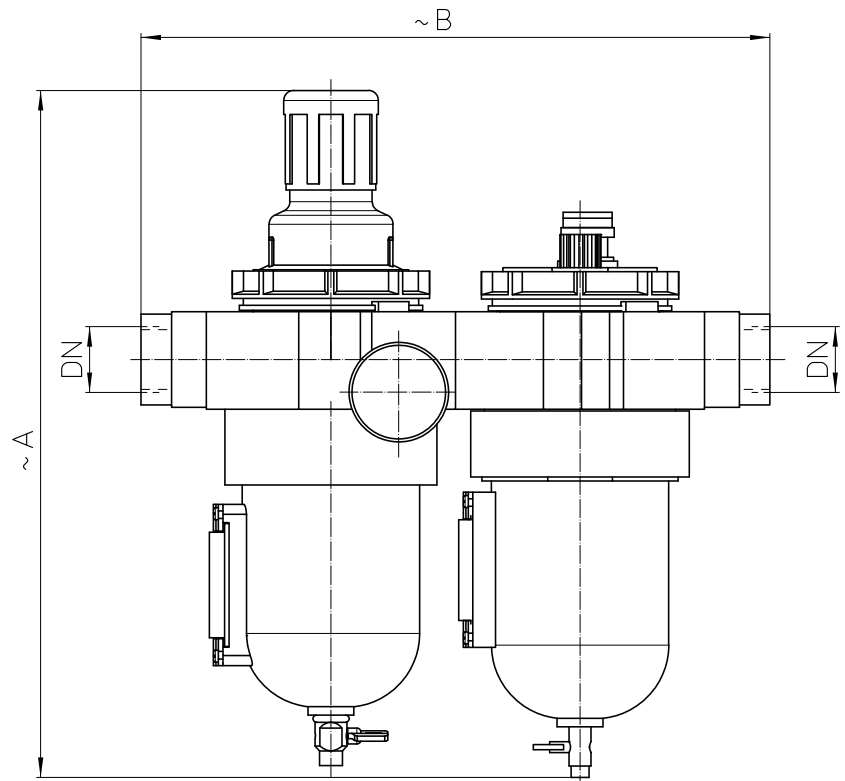
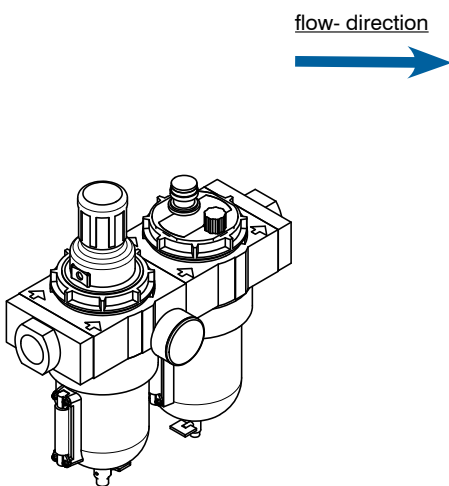
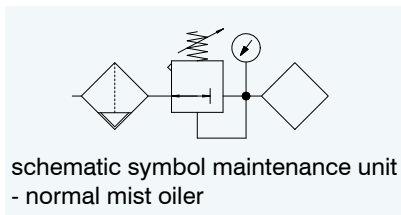
- Constant pressure regulator with feedback control, even under fluctuating inlet pressure, the outlet/working pressure of the unit remains constantly
- Overpressure protection by back control borehole $\varnothing$ 3 mm
- Inlet- and outlet/working glycerine pressure gauge
- Very high flow
- Flow direction is indicated by arrows
- Casing made of aluminium

Technical data:

nominal size connection:	G2 DN50
allowed of max. inlet pressure:	40 bar
adjustment range:	0,5 - 25 bar
inlet glycerine pressure gauge:	0 - 40 bar
outlet/working glycerine pressure gauge:	0 - 25 bar
medium:	compressed air
medium temperature:	-10° C bis +60° C
ambient temperature:	-10° C bis +90° C
mounting position:	any / note directional arrows (Adjust the glycerine pressure gauge. The rubber cap must point vertical up.)
- weight:	6 kg

Flow volume at $p_1 = p_2 + 2 \text{ bar}$					
Secondary pressure p_2	4 bar	6 bar	10 bar	16 bar	25 bar
Flow volume (expanded air)	900 Nm ³ /h	1200 Nm ³ /h	1500 Nm ³ /h	1680 Nm ³ /h	1920 Nm ³ /h



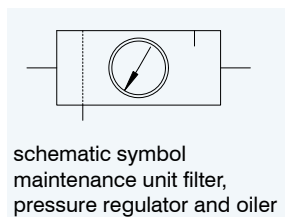


type	order-no.	DN (inch)	A (mm)	B (mm)	nom.pressure (bar)	chamber volume (cm ³)	filter element (μm)	draining
BL 68 - 836	20.9990.0546	G1	283	362	16	500	40	manual

Technical data:

operating medium	:	compressed air
operating pressure	:	0,7 bar min. - 17 bar max.
control range	:	0,4 bis 0,8 bar
device temperature	:	-20 bis +80°C
air quality	:	according to ISO8573-1, class 3 und class 5 (particle)
pressure gauge connection	:	Rc 1/8
material	:	case, frame, chamber, end cover: aluminium die casting filter element: sinter bronze gaskets: synthetic elastomers





Function

Material

Draining

Temperatur range

Filter element- mesh size

Mounting position

: The inlet pressure p1 must be at least 2 bar higher than the outlet pressure p2.

: Gehäuse - zink diecasting
oiler and filter - zink diecasting with level indicator

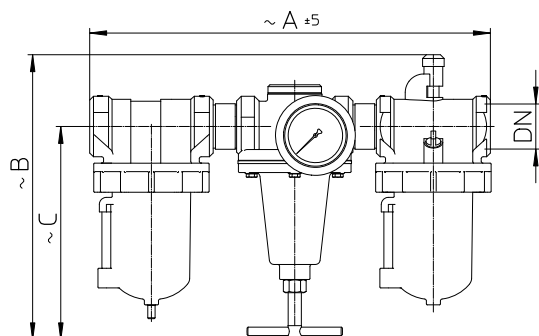
: manually hand- drain

: 0 bis 70° C

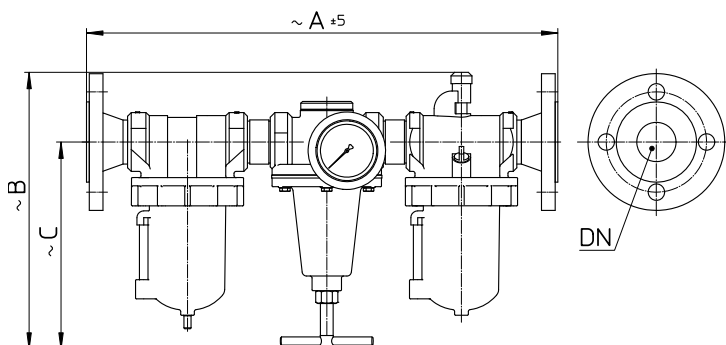
: 40 µm

: horizontal

thread design



flange design

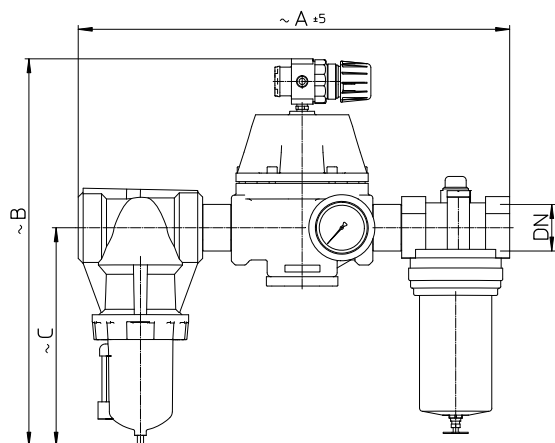


flow- direction

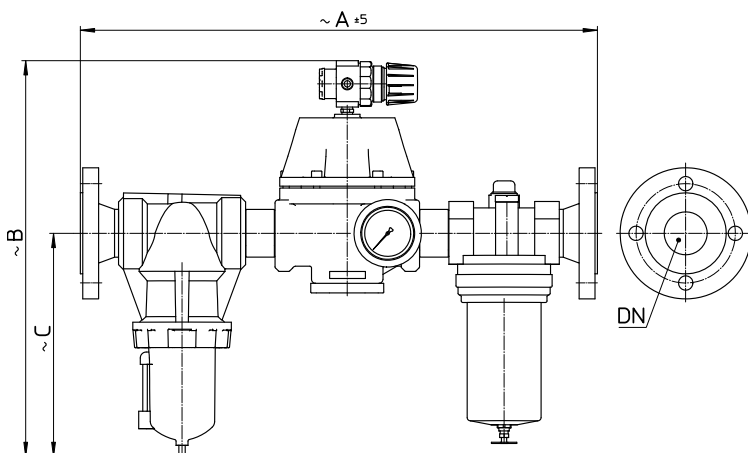


type	order-no.	DN nom. size	A (mm)	B (mm)	C (mm)	nom. pressure bar	flow volume m³/min	oil volume cm³	weight (kg)
C630-08FRL-W-D	20.9990.0588	25 / G1	365	298	235	16	9	500	7,2
C630-12FRL-W-D	20.9990.0589	40 / G1 1/2	427	304	228	16	11	500	9,6
C630-08FRL-W-D-F	20.9990.0590	25 / G1	445	298	235	16	9	1000	8,2
C630-12FRL-W-D-F	20.9990.0591	40 / G1 1/2	517	304	228	16	11	1000	10,6

thread design



flange design



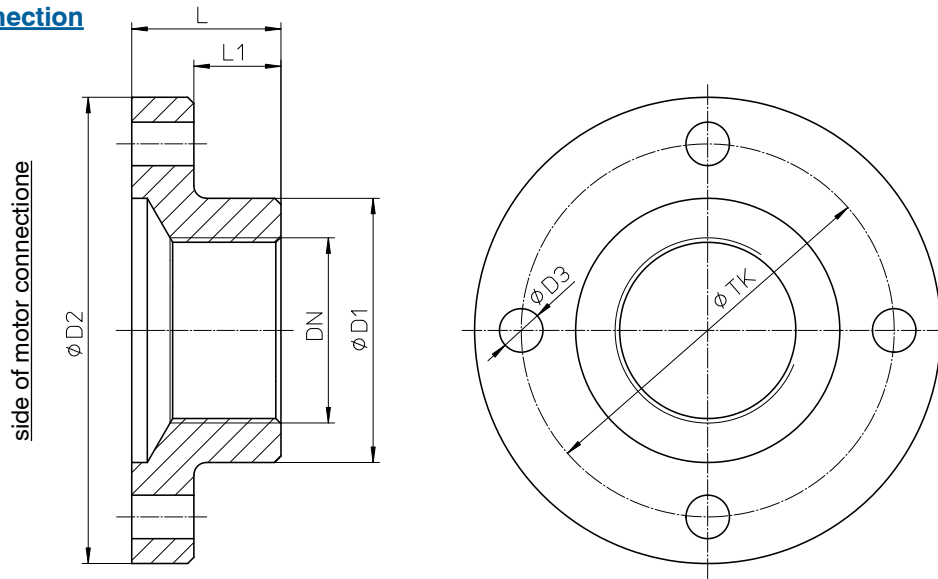
flow- direction



type	order-no.	DN nom. size	A (mm)	B (mm)	C (mm)	nom. pressure bar	flow volume m³/min	oil volume cm³	weight (kg)
C630-16FRL-W-D	20.9990.0566	50 / G2	555	500	281	16	28	500	16,1
C630-16FRL-W-D-F	20.9990.0592	50 / G2	651	500	281	16	28	1000	17,1



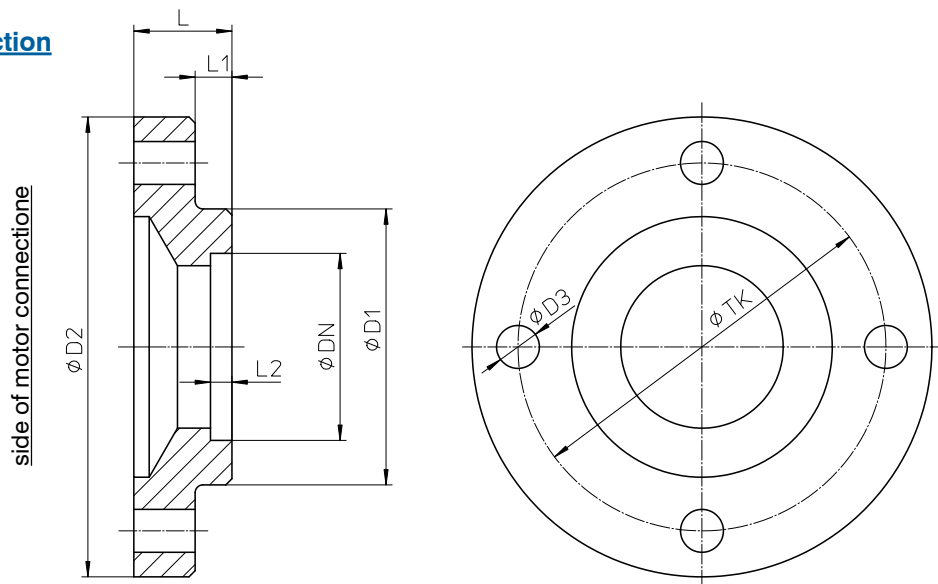
Thread- connection



order-no.	motor size	DN (inch)	D1 (mm)	D2 (mm)	D3 (mm)	TK (mm)	L (mm)	L1 (mm)
02.0000.0012	DMO8	G 1 1/2	70	130	14	100	42	20
02.0000.0014	DMO15/20	G 2	85	150	14	120	48	28
02.0000.0033A	DMO35G	G 2 1/2	95	225	18	185	65	38

If required, the linear dimensions L and L1 can adapted to the conditions.

Pipe- connection

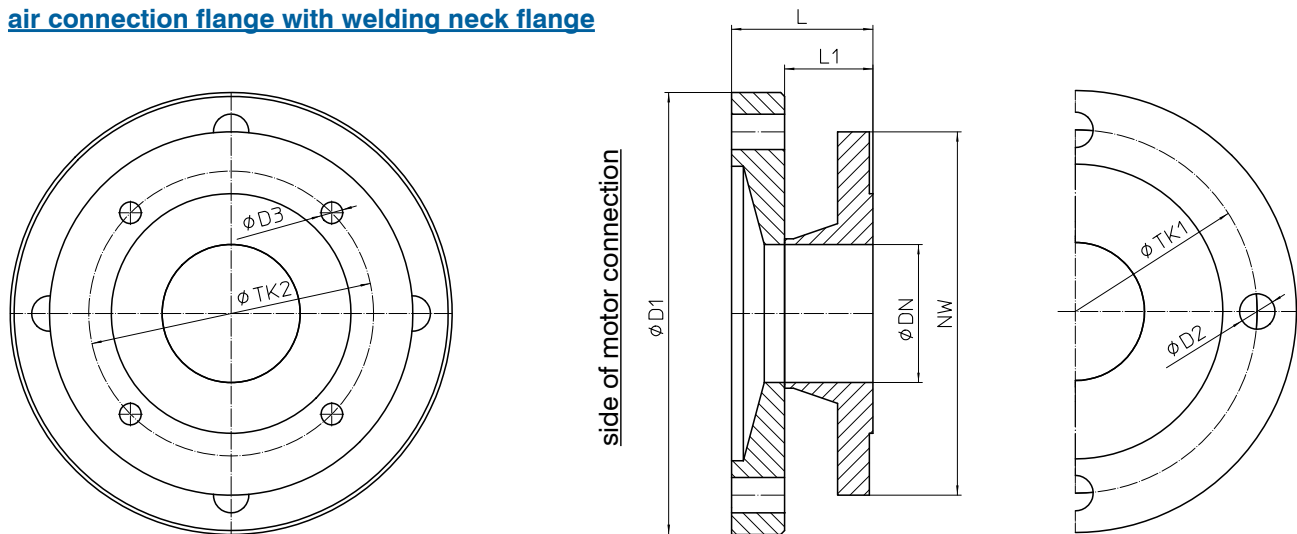


order-no.	motor size	DN (mm)	D1 (mm)	D2 (mm)	D3 (mm)	TK (mm)	L (mm)	L1 (mm)	L2 (mm)
02.0000.0032	DMO8	49	70	130	14	100	30	10	7
02.0000.0031	DMO15/20	61	90	150	14	120	32	12	7
02.0000.0035	DMO35G	77		225	14	185	32		7

If required, the linear dimensions L and L1 can adapted to the conditions.



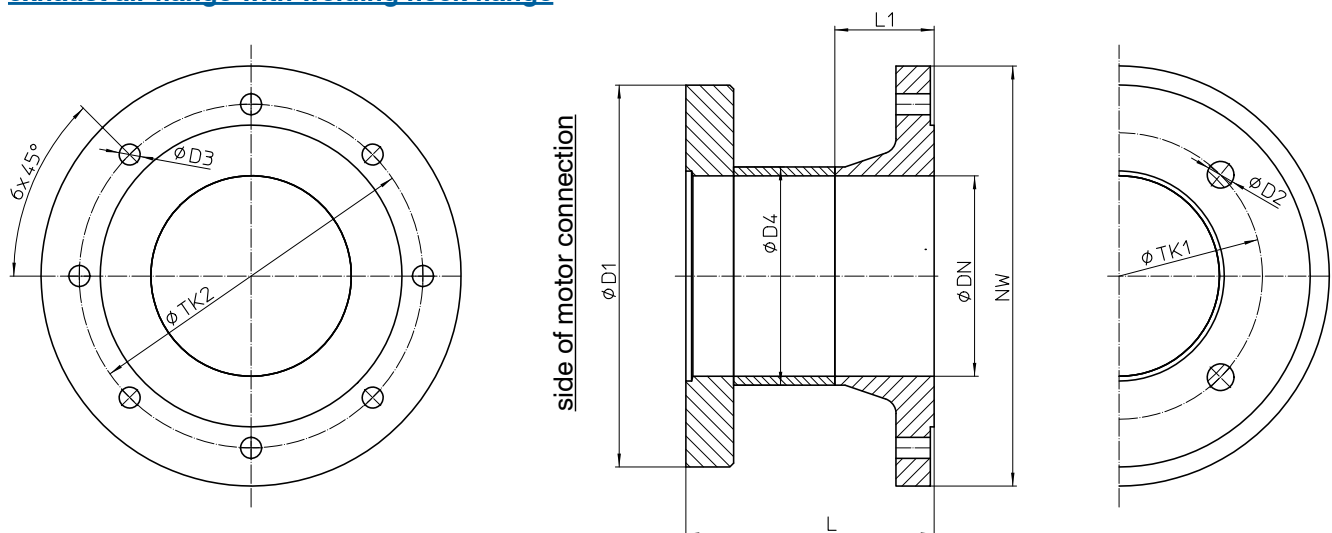
air connection flange with welding neck flange



order-no.	motor size	DN (mm)	D1 (mm)	D2 (mm)	D3 (mm)	TK1 (mm)	TK2 (mm)	L (mm)	L1 (mm)	NW flange DIN 2633
02.0000.0013	DMO15/20	52,6	150	14	19,1	120	120,7	74,5	55,5	NW 2" ASA
02.0000.0015	DMO35G	55	225	18	18	185	125	72	45	NW 50
02.0000.0015A	DMO35G	70,3	225	18	18	185	145	72	45	NW 65
02.0000.0016	DMO35G / DMO56	78	225	18	19,1	185	152,4	150	125	NW 3" ASA

If required, the linear dimensions L and L1 can adapted to the conditions.

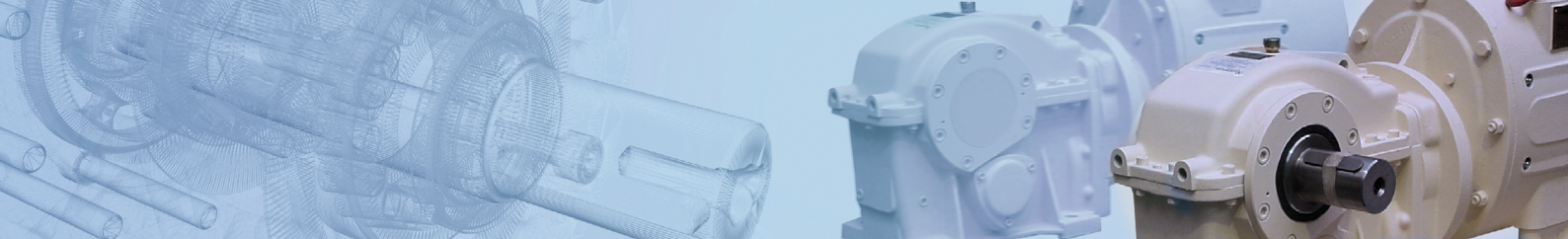
exhaust air flange with welding neck flange



order-no.	motor size	DN (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (pipe/mm)	TK1 (mm)	TK2 (mm)	L (mm)	L1 (mm)	NW flange DIN 2633
02.0000.0018	DMO8	105	200	14	18	114,3x3,6	150	180	130	52	NW 100
02.0000.0019	DMO8 / DMO15	110	200	14	18	133x16	150	210	133	55	NW 125
02.0000.0020	DMO20	150,7	240	14	22	168,3x8,8	200	240	130	55	NW 150

If required, the linear dimensions L and L1 can adapted to the conditions.





DÜSTERLOH has been developing fluid technology products for more than 100 years.

The drives, controls and hydraulic power units from Hattingen are appreciated throughout the world for their complete reliability; including under extreme conditions. The owner-managed company's own development and construction department and the wide range of products cater for distinctive flexibility and customer-orientation.

Products

- Hydraulic radial piston motors
- Hydraulic axial piston motors
- Pneumatic motors
- Pneumatic starters
- Hydraulic and pneumatic controls
- Hydraulic power units

Designing controls and hydraulic power units specific to the customer is our company's major strength. Vast product diversity is also available for standardized products.

Industrial areas of application

- Machine tools
- Smelting and rolling mill equipment
- Foundry machines
- Testing machines
- Shipbuilding (diesel engines)
- Offshore technology
- Printing and paper technology
- Vehicle construction
- Manipulators
- Environmental technology
- Mining equipment
- Materials handling equipment



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