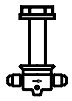
INSTRUCTIONS

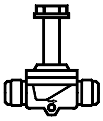
EVR 2 - 22, Normally Closed (NC)
EVR 6 - 22, Normally Open (NO)

032R9500

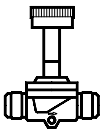
CFC, HCFC, HFC



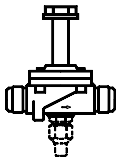
EVR 2,
3 (NC)



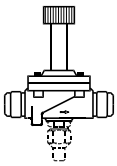
EVR 4, 6,
8, 10 (NC)



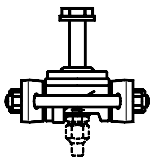
EVR 6,
10 (NO)



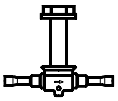
EVR 15 (NC)



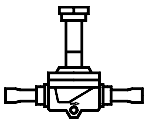
EVR 15 (NO)



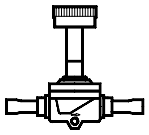
EVR 15, 20 (NC)



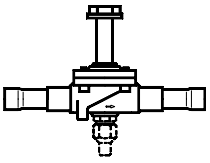
EVR 2,
3 (NC)



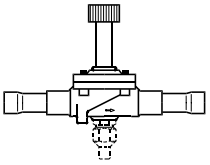
EVR 4, 6,
8, 10 (NC)



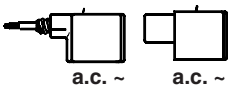
EVR 6,
10 (NO)



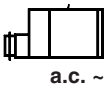
EVR 15, 18,
20, 22 (NC)



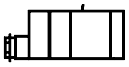
EVR 15, 20,
22 (NO)



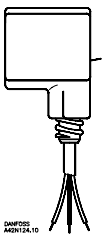
a.c. ~ **a.c. ~**



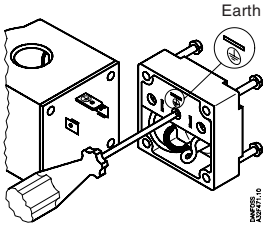
a.c. ~

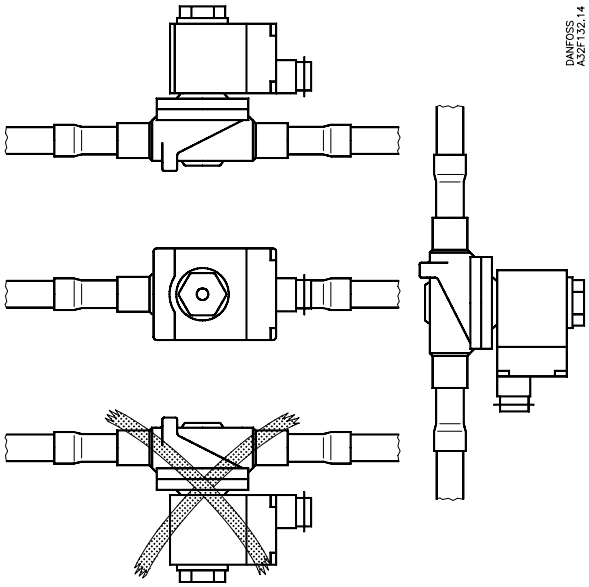


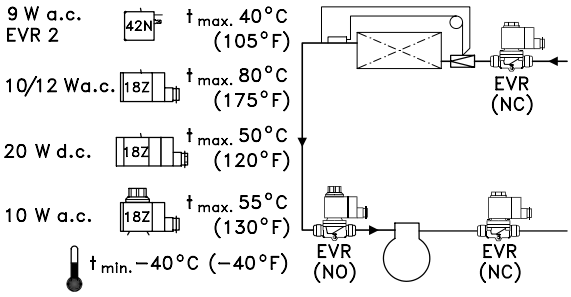
12 W a.c. ~
20 W d.c. ⎓



Earth
Yellow/
Green

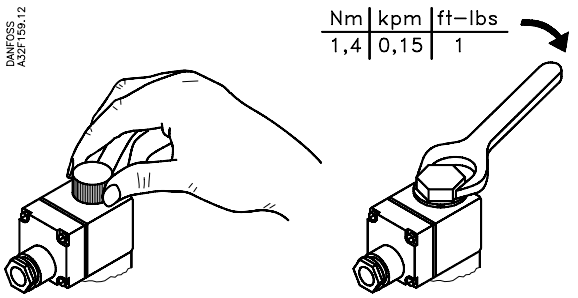




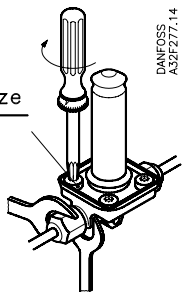


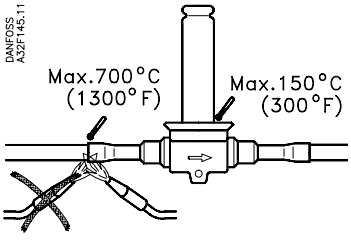
Min. medium temperature: −40°C (−40°F)
Max. medium temperature: 105°C(221°F)
Max. working pressure:EVR2−10 PB=35bar
Max. working pressure:EVR15−22 PB=32bar
Max. opening diff. pressure (MOPD): →

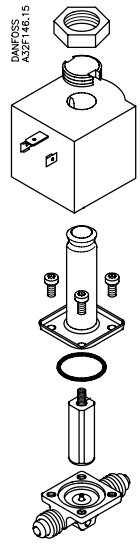
DANFOSS
A32F173.14



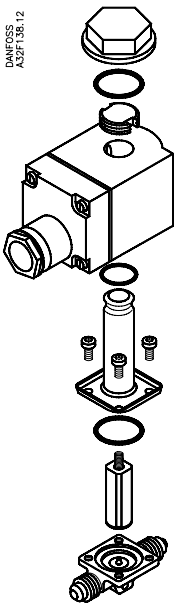
EVR	Nm	kpm	ft−lbs	Torx size
2−3	1.4	0.15	1	T 15



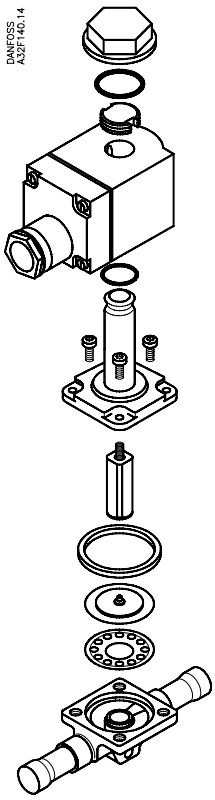




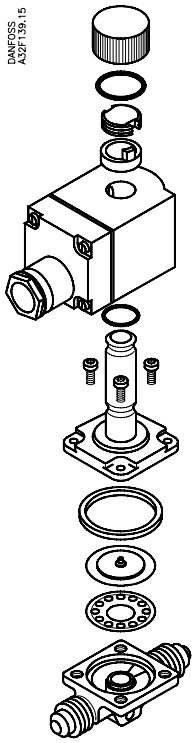
EVR 2 (NC)



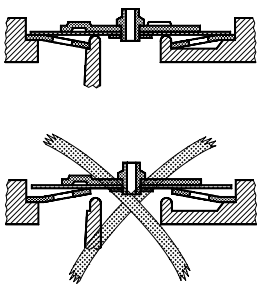
EVR 3 (NC)

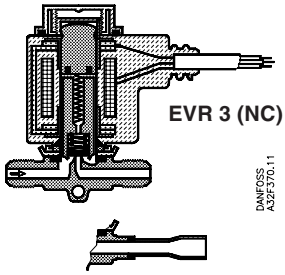


EVR 4 - 22 (NC)

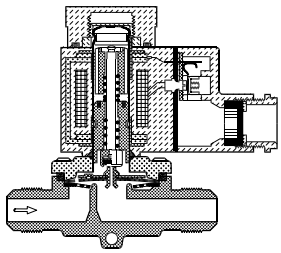


EVR 6 - 22 (NO)

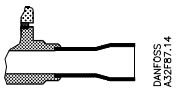


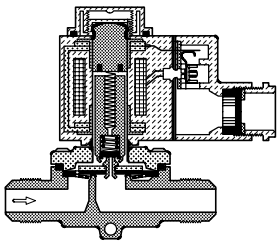


EVR 3 (NC)

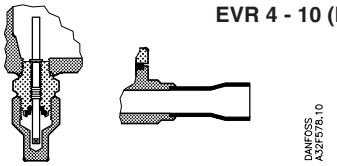


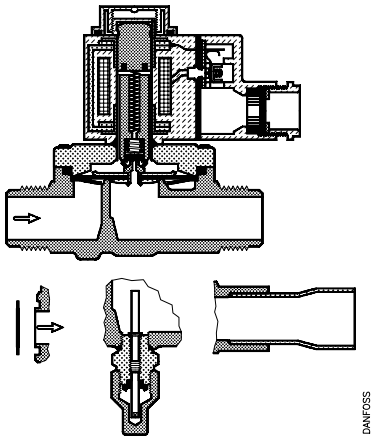
EVR 6 - 10 (NO)



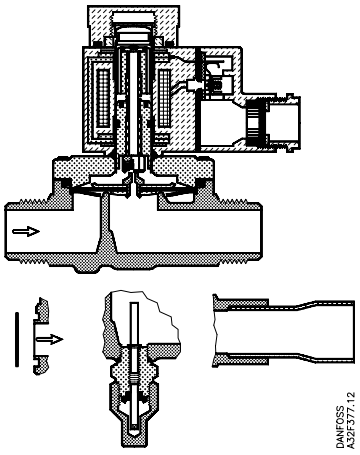


EVR 4 - 10 (NC)

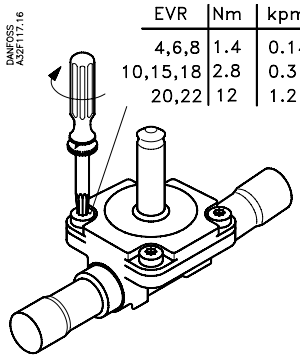




EVR 15 - 22 (NC)



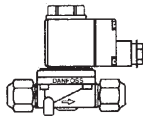
EVR 15 - 22 (NO)



EVR	Nm	kpm	ft-lbs	Torx size
4,6,8	1.4	0.14	1	T 20
10,15,18	2.8	0.3	2	T 25
20,22	12	1.2	9	T 40

INSTRUCTIONS

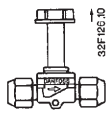
EVR, Normally Closed (NC)
EVR, Normally Open (NO)

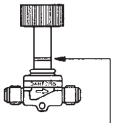


032R9639

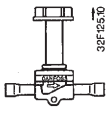
032R9639

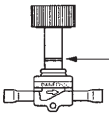
R 12, R 22, R 502





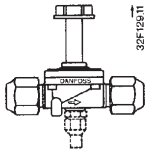
NB



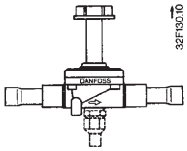


EVR 2, 3, 6 (NC)

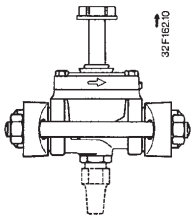
EVR 6, 10, 15 (NO)



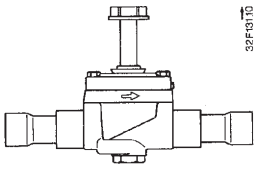
EVR 15 (NC)



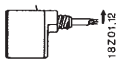
EVR 15, 20 (NC)



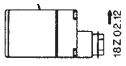
EVR 15, 20, 25 (NC)



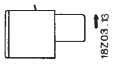
EVR 25 (NC)



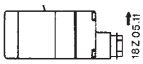
a.c.~



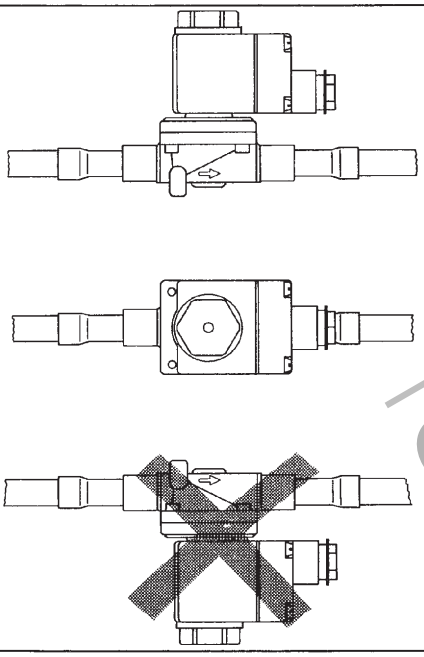
a.c.~

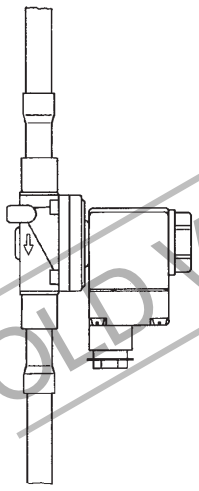


a.c.~



12 W a.c.~
20 W d.c. ⎓





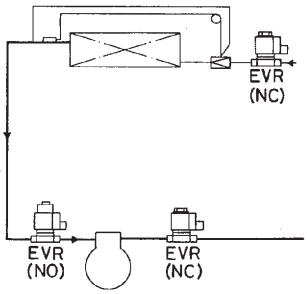
9 W a.c. EVR 2 — 42N — t_{max} 40°C (105°F)

10/12 W a.c. — 18Z — t_{max} 80°C (175°F)

20 W d.c. — 18Z — t_{max} 50°C (120°F)

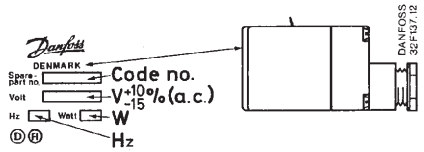
10 W a.c. — 18Z — EVR(NO) — t_{max} 55°C (130°F)

t_{min} -40°C(-40°F)

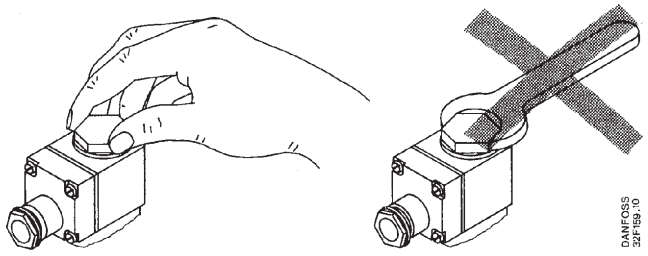


Min. medium temperature:	-40°C(-40°F)
Max.medium temperature:	120°C(250°F)
Max. operating pressure:	35 bar_{eff} (500 psig)
Max. opening diff. pressure(MOPD):	
p_{test} max.:	46 bar_{eff} (650 psig)

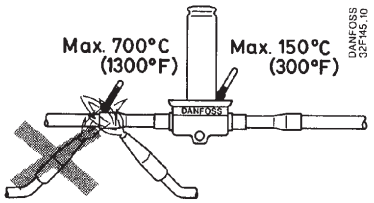
DANFOSS 32F153.12



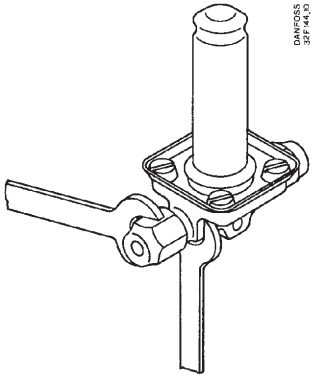
DANFOSS 32F137.12



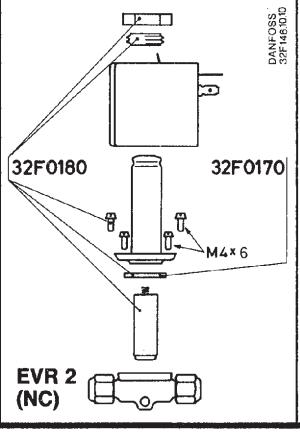
DANFOSS 32F159.10



DANFOSS 32F145.10

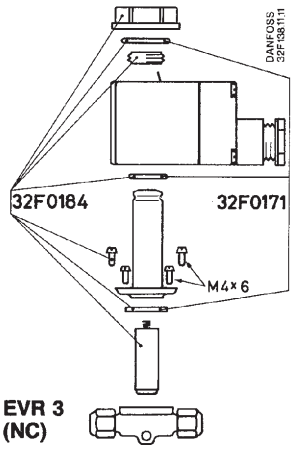


DANFOSS 32F144.10



EVR 2 (NC)

DANFOSS 32F146.10

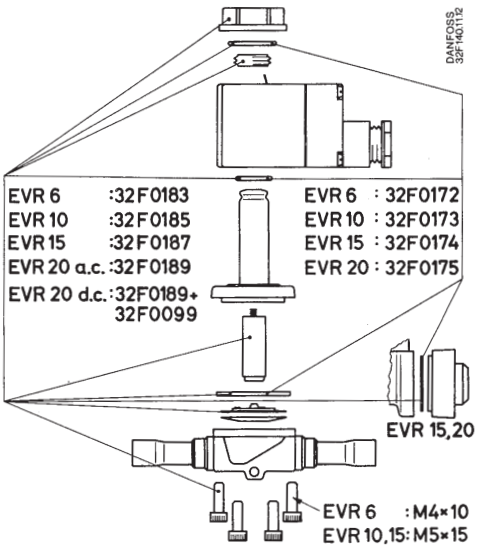


EVR 3 (NC)

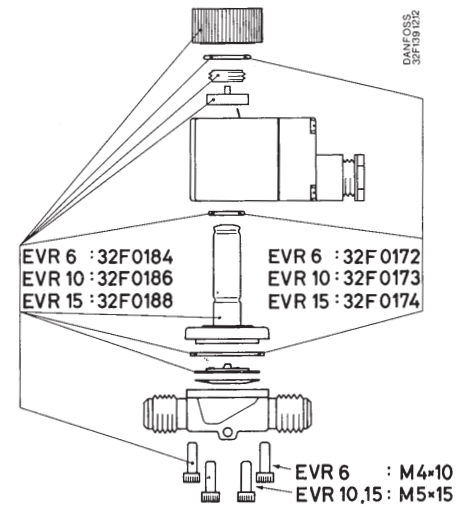
DANFOSS 32F138.11

DAN9A-1

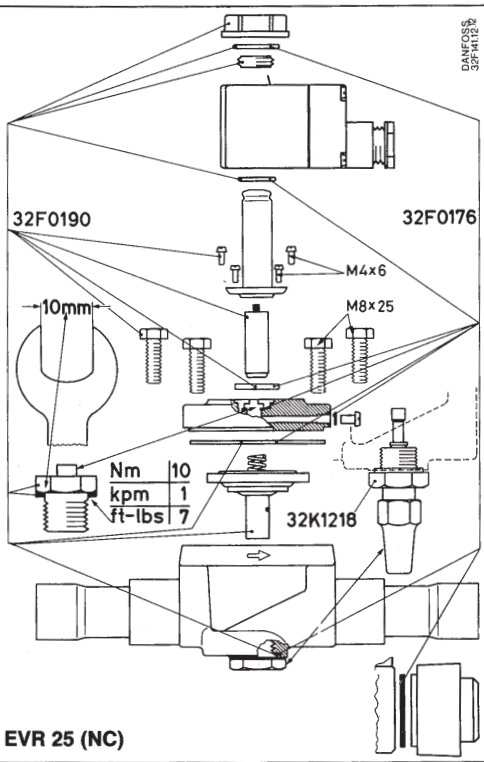
~~KI.41.E4.53~~
~~KI.41.H1.52~~ → **RI.03.A1.00** 11-1983



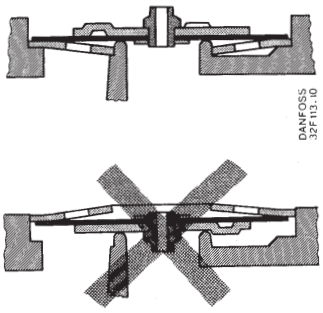
EVR 6, 10, 15, 20 (NC)

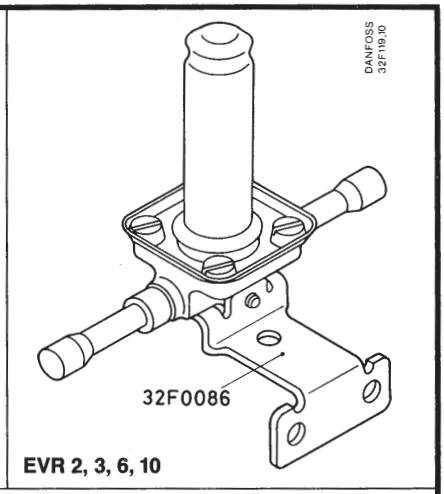


EVR 6, 10, 15 (NO)

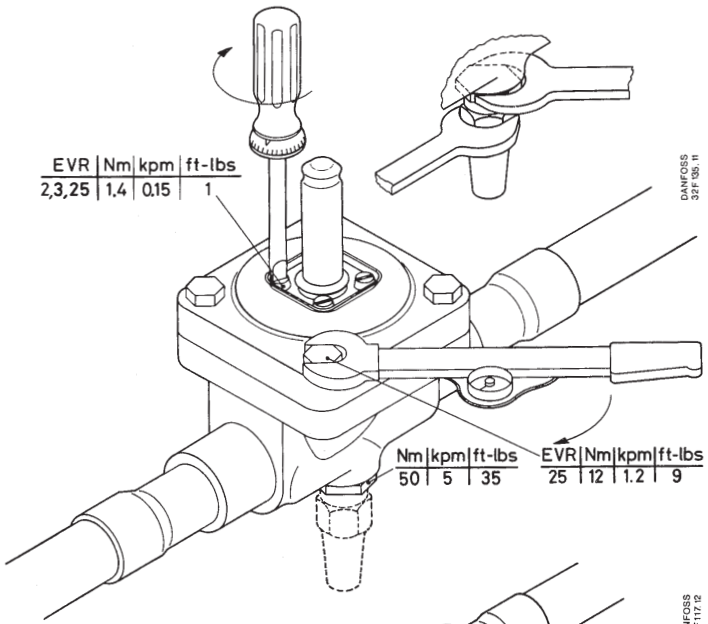


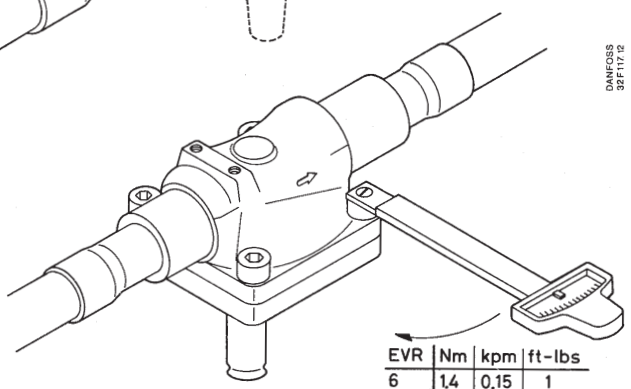
EVR 25 (NC)

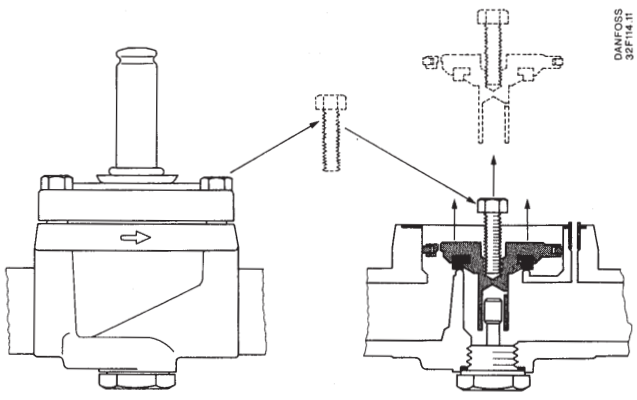




EVR 2, 3, 6, 10

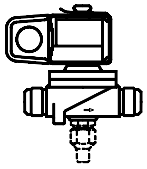






INSTRUCTIONS

EVR 2 - 22 Normally Closed (NC)
EVR 6, 10, 15 Normally Open (NO)

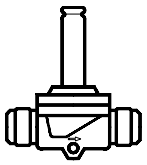


032R9522

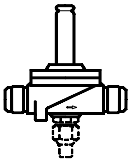
032R9522

Refrigerants:
HFC, HCFC, CFC

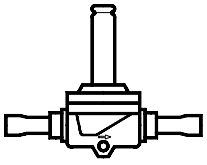
Valve, NC version



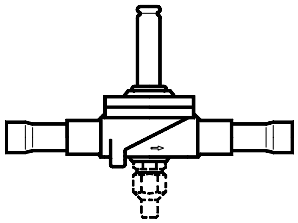
EVR 2, 3, 4,
6, 8, 10 (NC/Flare)



EVR 6, 10 (NC/Flare)

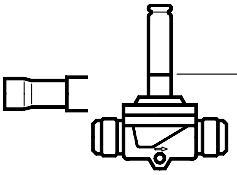


EVR 2, 3, 4, 6, 8, 10
(NC/Solder)



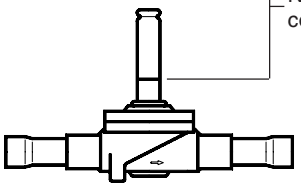
EVR 6, 10, 15, 18, 20, 22
(NC/Solder)

Valve, NO version



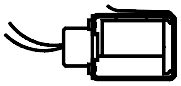
EVR 6, 10 (NO)

Note: tube construction

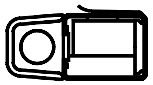


EVR 15 (NO/Solder)

Coil

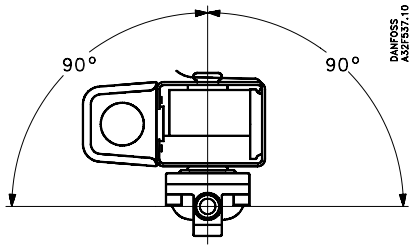


Conduit coil

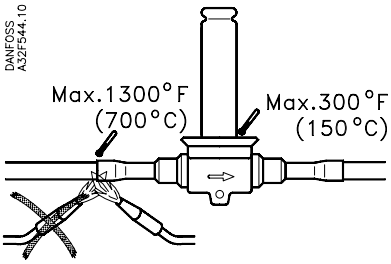


Junction box

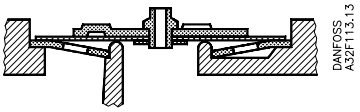
Mounting position

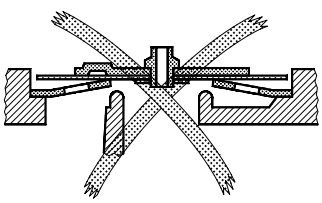


Soldering of copper connections



Mounting of diaphragm

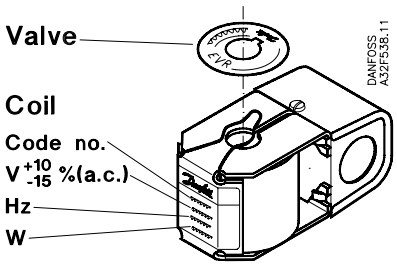




Operating conditions

Max. working pressure (MWP)	EVR 2, 3, 4, 6, 8, 10: EVR 15, 18, 20, 22:		500 psig (35 bar p_e) 460 psig (32 bar p_e)
Max. test pressure	650 psig (45 bar p_e)		
Max. opening diff. pressure (MOPD)	**NC Valves**	AC	DC
	EVR 2 - 18 EVR 20 - 22	350 psig (24 bar p_e) 350 psig (24 bar p_e)	260 psig (18 bar p_e) 230 psig (16 bar p_e)
	NO Valves	AC	DC
	EVR 6, 10, 15	350 psig (24 bar p_e)	300 psig (21 bar p_e)
Refrigerant temperature	max. min.	220°F (105°C) -40°F (-40°C)	
Ambient temperature	max. min.	120°F (50°C) -40°F (-40°C)	

Identification of coil and valve



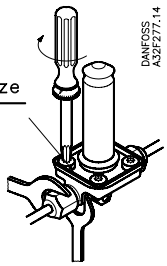
Caution
Wiring and fusing (when used) must comply with prevailing local and national wiring codes and ordinances.

Transformer selection

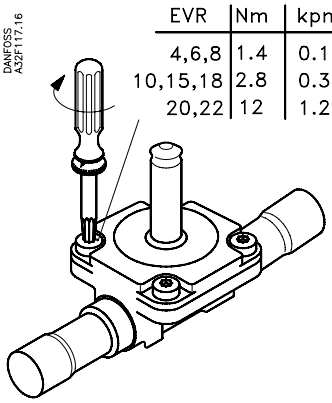
Coil		Inrush [Volt-Amp]	Holding [W]	Holding [Volt-Amp]
208-240 V	50-60 Hz	76	17.5	40
110-120 V	50-60 Hz	76	17.5	40
24 V	60 Hz	76	17.5	40
120/208 V	50-60 Hz	76	17.5	40
120 V DC			23.0	

Tightening torques

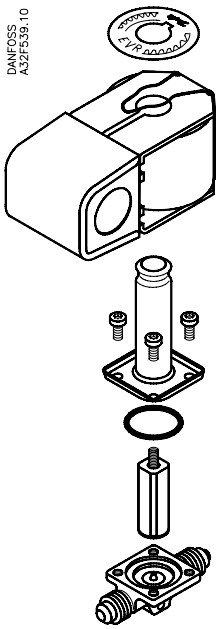
EVR	Nm	kpm	ft-lbs	Torx size
2-3	1.4	0.15	1	T 15



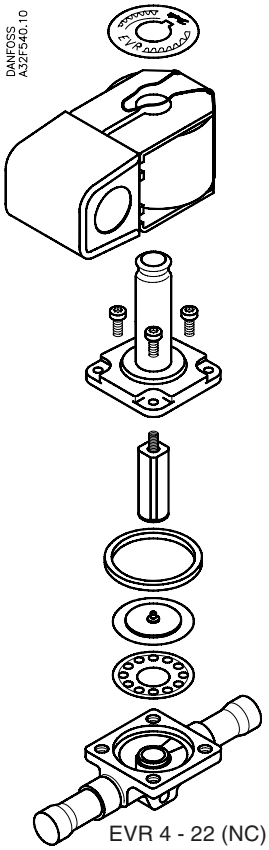
EVR	Nm	kpm	ft-lbs	Torx size
4,6,8	1.4	0.14	1	T 20
10,15,18	2.8	0.3	2	T 25
20,22	12	1.2	9	T 40



Valve and coil construction, NC versions

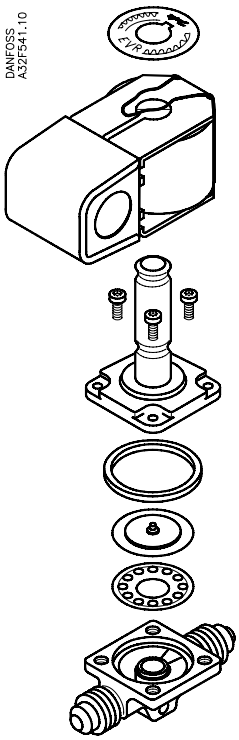


EVR 2, 3 (NC)



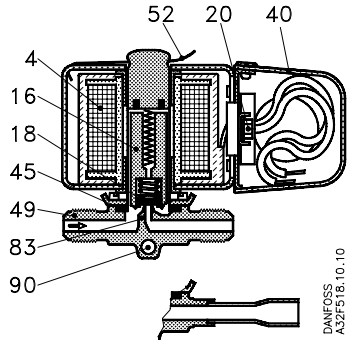
EVR 4 - 22 (NC)

Valve and coil construction, NO versions

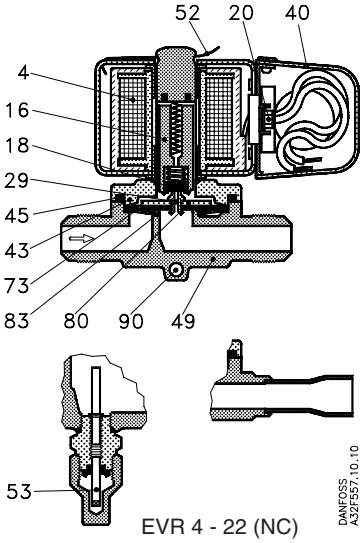


EVR 6 - 15 (NO)

Cut-away, NC versions
(Position numbers:
see Danfoss Technical Leaflet)

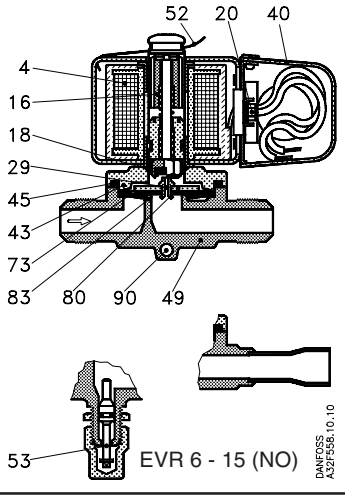


EVR 2, 3 (NC)



EVR 4 - 22 (NC)

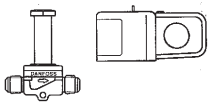
Cut-away, NO versions
(Position numbers:
see Danfoss Technical Leaflet)



EVR 6 - 15 (NO)

INSTRUCTIONS

EVR Normally Closed (NC)
EVR Normally Open (NO)

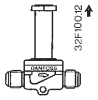


032R9647

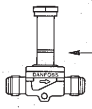
032R9647

Refrigerants
R 12, R 22, R 502

Types

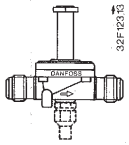


EVR 3, 6, 10 (NC)

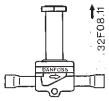


EVR 6, 10, 15 (NO)

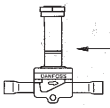
NB



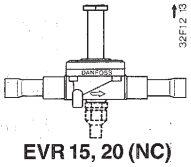
EVR 15 (NC)



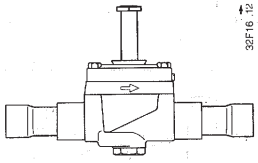
EVR 3, 6, 10 (NC)



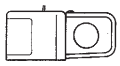
EVR 6, 10, 15 (NO)



EVR 15, 20 (NC)

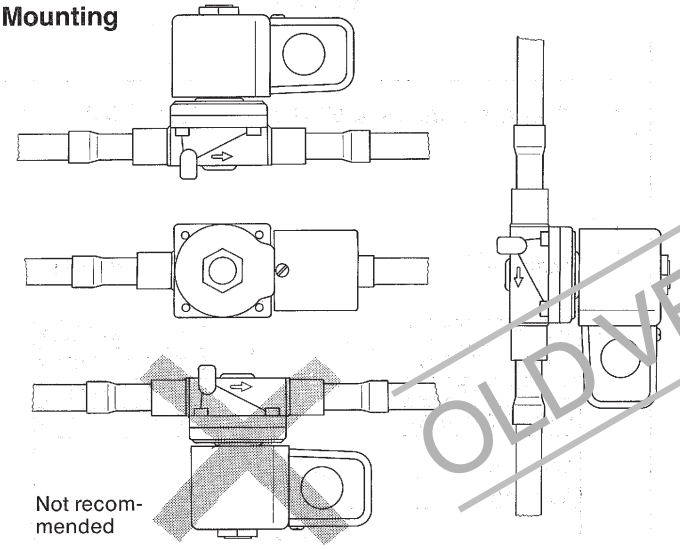


EVR 25 (NC)



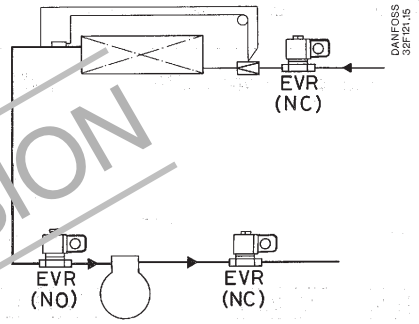
Coil	Code no.
110-120 V/50/60 Hz	18Z7512
208-240 V/50/60 Hz	18Z7511
24 V/50/60 Hz	18Z7513

Mounting



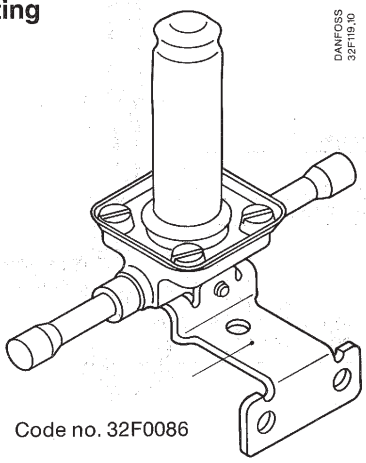
Not recommended

Operating conditions



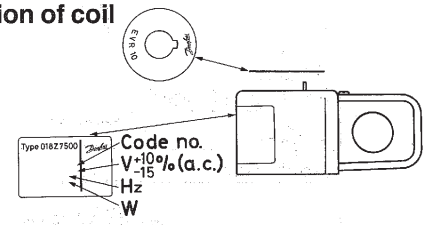
Safe working pressure (SWP)	EVR 3, 6, 10, 25: 500 psig (35 bar p_e) EVR 15, 20: 460 psig (32 bar p_e)
Max. test pressure	650 psig (45 bar p_e)
Max. opening diff. pressure (MOPD)	NC 350 (24 bar p_e) NO 300 (21 bar p_e)
Refrigerant temp. max.	250°F (120°C)
Refrigerant temp. min.	–40°F (–40°C)
Ambient temp. max.	120°F (50°C)
Ambient temp. min.	–40°F (–40°C)

Bracket mounting
for EVR 3, 6, 10



Code no. 32F0086

Identification of coil

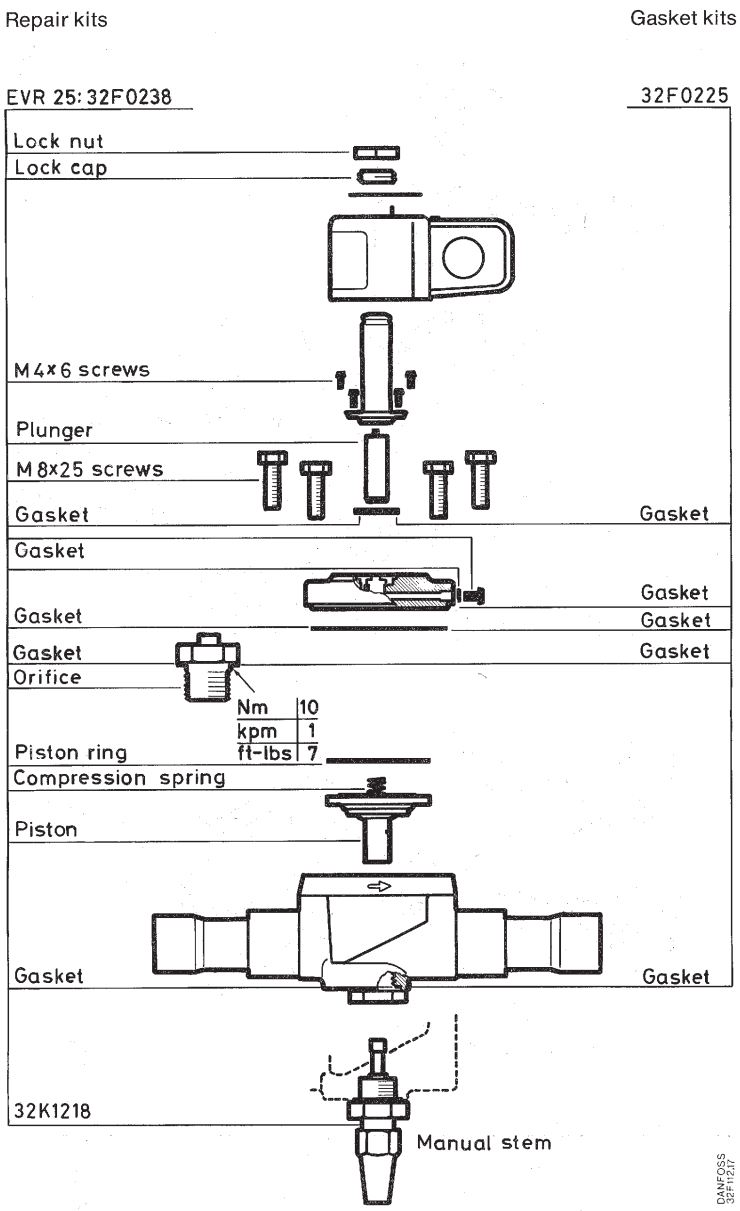


Caution
Wiring and fusing (when used) must comply with prevailing local and national wiring codes and ordinances.

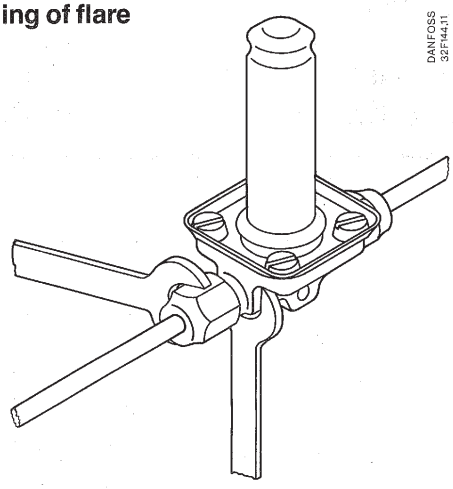
Transformer selection

Coil	Inrush Amp	Inrush Volt-Amp	Holding Amp	Holding Volt-Amp
208-240 V 50-60 Hz	0.34	76	0.20	45
110-120 V 50-60 Hz	0.66	76	0.39	45
24 V 60 Hz	3.2	76	1.7	40

Service kits code nos. EVR 25 (NC)



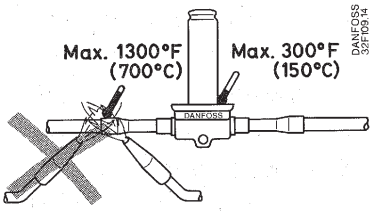
Tightening of flare



Soldering

Remove coil before soldering

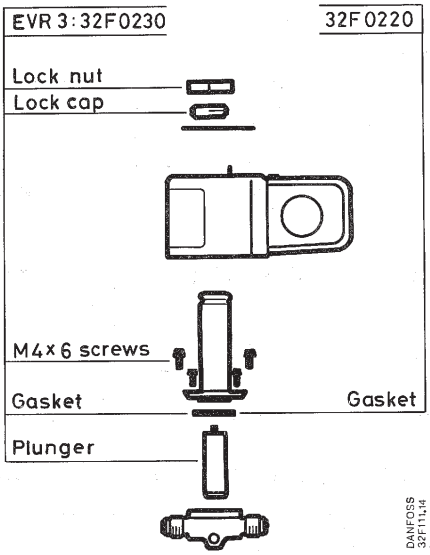
Aim flame away from valve body



Service kits code nos. EVR 3 (NC)

Repair kits

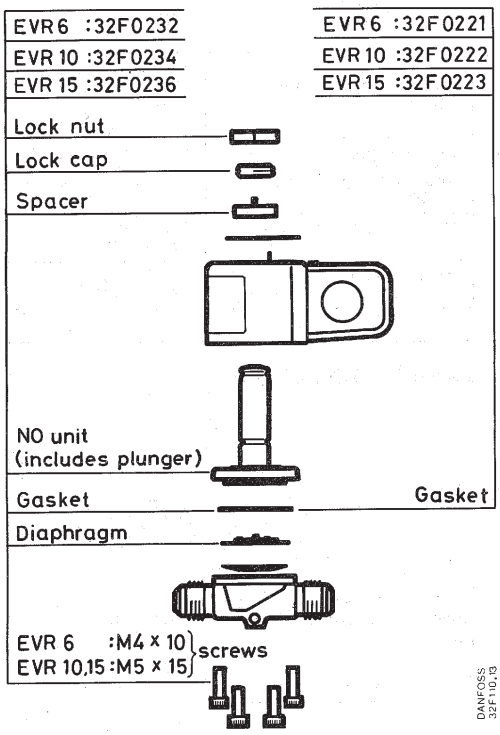
Gasket kits



Service kits code nos. EVR 6, 10, 15 (NO)

Repair kits

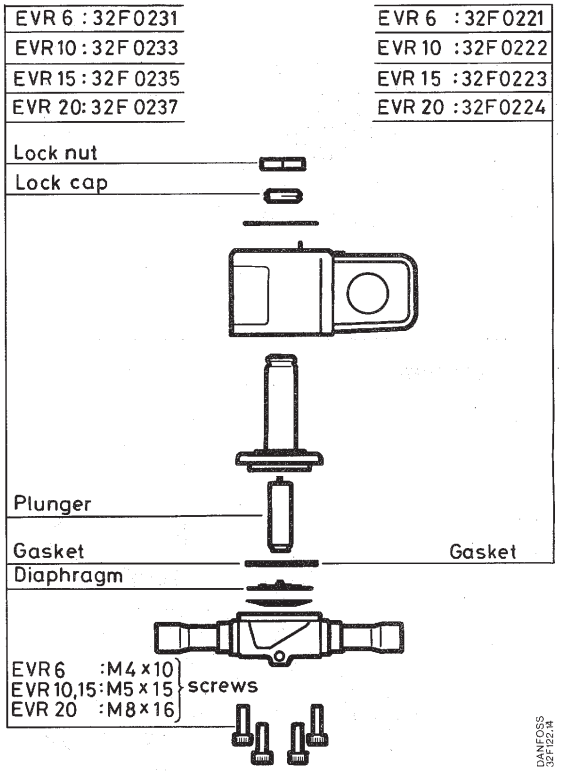
Gasket kits



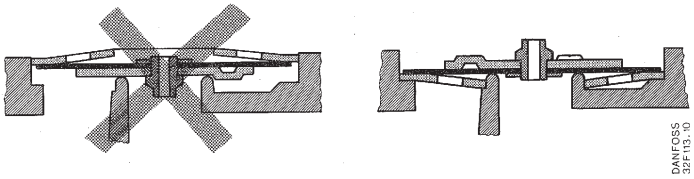
Service kits code nos. EVR 6, 10, 15, 20 (NC)

Repair kits

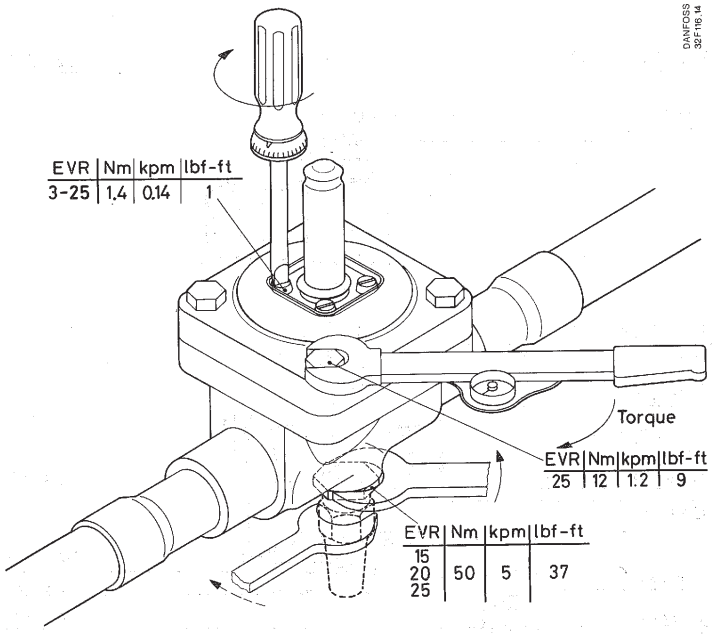
Gasket kits

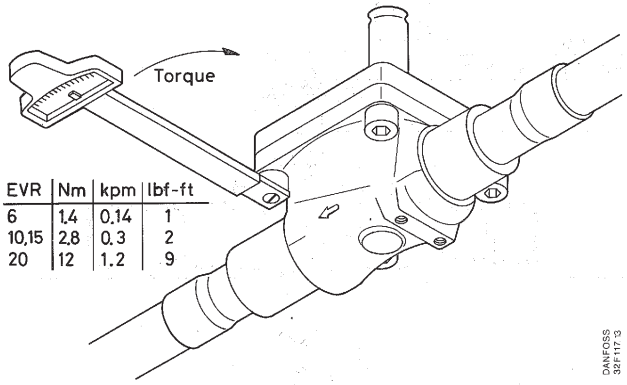


Diaphragm replacement



Tightening torques





Servo piston removal