	ABBREVIATIONS
AP	HIGH PRESSURE CONNECTION
AS	PHASE LAG (DEGREES)
BP	LOW PRESSURE CONNECTION
C	STROKE (MM)
CH	ACROSS FLATS
Ch	INTERNAL ACROSS FLATS
DA	AMPLITUDE DECAY (DB)
Dp	DIFFERENTIAL PRESSURE (BAR)
F	FORCE (N)
I%	INPUT CURRENT (A)
M	MANOMETER CONNECTION
NG	KNOB TURNS
OR	SEAL RING
P	LOAD PRESSURE (BAR)
PL	PARALLEL CONNECTION
Pr	REDUCED PRESSURE (BAR)
Q	FLOW (L/MIN)
Qp	PUMP FLOW (L/MIN)
SE	ELASTIC PIN
SF	BALL
SR	SERIES CONNECTION
X	PILOTING
Y	DRAINAGE

CARTRIDGE VALVES ISO 7368 (DIN 24342)



CARTRIDGE VALVES	SECT. E 2
KEL 2/2 LOGIC ELEMENTS	SECT. E 3
KEC COVERS	SECT. E 5
COVERS WITH CMP	SECT. E 11
KRA.16/25...	SECT. E 13
PROXIMITY	SECT. E 16

E

CARTRIDGE VALVES
CARTRIDGE SOLENOID VALVES WITH CHECK VALVE
CARTRIDGE SOLENOID VALVES

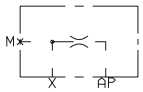
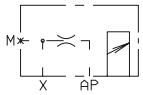
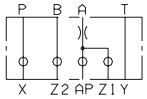
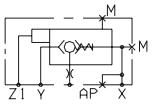
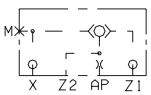
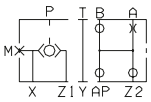
© 2026 Dana Limited. All rights reserved.
The product images and drawings shown are for illustration purposes only and may not be an exact representation of the product.
We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.
Each product configuration listed below is subject to availability: please contact Sales Dpt. for more commercial detailed info.

COVERS ORDERING CODE

KEC	Covers for logic element 2/2
**	**16** = NG16 **25** = NG25
**	Type of cover (see Tab. 3) **RI** = Directional with external piloting **CQ** = Directional with stroke adjustment **RC** = Directional with interface NG6 **PC** = With hydraulic outlet pilot valve **SH** = With built-in-exchange (shuttle) **SP** = With built-in-exchange and interface NG6
**	**00** = No variant **V1** = FKM
2	Serial No.

E

TAB. 1 - COVERS HYDRAULIC SYMBOLS

Type	Symbol
KECRI**2** Directional with external piloting	
KECCQ**2** Directional with stroke adjustment	
KECRC**2** Directional with interface NG6	
KECPC**2** With hydraulic outlet pilot valve	
KECSH**2** With built-in-exchange valve (shuttle)	
KECSP**2** With built-in-exchange valve (shuttle) and interface NG6	



MAXIMUM PRESSURE CARTRIDGE VALVES

Nominal size (max. diameter)	16mm / 25mm
Max. operating pressure	400 bar
Maximum nominal flow rate NG16	150 l/min
Maximum nominal flow rate NG25	350 l/min
Setting ranges	15 ÷ 400 bar

Maximum pressure cartridge valves allow control of hydraulic circuit pressures up 400 bar and 350 l/min maximum flow rate (NG25).
Besides the normal manual pressure regulation mode, function like electrical command for discharge to drain, remote control, proportional pressure control or electrically selected dual pressure levels are also available.

The cover interface allows the mounting of a CETOP 3/NG06 valve. A standard cartridge valve DIN 24342 is used. A cover not according to DIN rules is also available.

The valve response specification may be modified by selection of different internal orifices according to the required application. **The standard version has calibrated orifices of Ø 1 mm in X and AP.**

MAX. PRESSURE COVERS

KEC16/25... WITH CMP	SECT. E	11
C*P16/25...	SECT. E	12
CETOP 3/NG06	SECT. A	10
AD3E...	SECT. A	13
AM3VM...	SECT. D	9
XP3...	SECT. G	20

DIN STANDARDS COVER ORDERING CODE

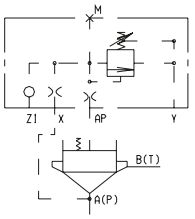
KEC	DIN standards cover
**	**16** = NG16 **25** = NG25
**	Type of cover **ME** = Max. pressure valve with interface CETOP 3 **MP** = Max. pressure valve **UE** = Exclusion valve with interface CETOP 3 **UN** = Exclusion valve **SL** = Sequencing valve
*	Setting ranges **1** = 15 ÷ 45 bar **(white spring)** **2** = 15 ÷ 145 bar **(yellow spring)** **3** = 60 ÷ 400 bar **(green spring)**
*	Type of adjustment **M** = Plastic knob **C** = Grub screw
**	**00** = No variant **V1** = FKM
3	Serial No.

PLATE MOUNTING COVERS ORDERING CODE

C*P	**M** = Cover with max. pressure valve **U** = Cover with exclusion valve **S** = Cover with sequencing valve
*	**E** = Presetting for solenoid valve (Omit if not required)
**	**16** = NG16 **25** = NG25
*	Type of adjustment **M** = Plastic knob **C** = Grub screw
*	Setting ranges **1** = 15 ÷ 45 bar **(white spring)** **2** = 15 ÷ 145 bar **(yellow spring)** **3** = 60 ÷ 400 bar **(green spring)**
**	**00** = No variant **V1** = FKM
2	Serial No.

MANUAL PRESSURE REGULATION

This regulation facility is incorporated in the cartridge closing cover. A Z1 port is provided on the cover for remote piloting via directional or pressure control valves.

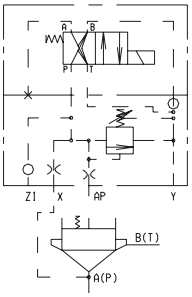


KEC. ∗∗. MP. .
CMP. ∗∗. .

KEL. ∗∗. U. .

MANUAL PRESSURE REGULATION AND ELECTRICAL COMMAND FOR DISCHARGE TO DRAIN

This arrangement uses an electrically controlled valve type AD3E15.. which normally, in the de-energized position, allows discharge to drain of the controlled flow. When energized, the system operates at the pressure set on the piloting unit incorporated in the closing cover.



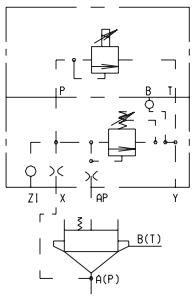
AD. 3. E.

KEC. ∗∗. ME. .
CMP. E. ∗∗. .

KEL. ∗∗. U. .

MANUAL REGULATION AND PROPORTIONAL CONTROL OF THE PRESSURE

This arrangement uses a proportional pressure valve type XP3.. as the pilot, which allows proportional regulation of the controlled system pressure as a function of an electrical command signal.



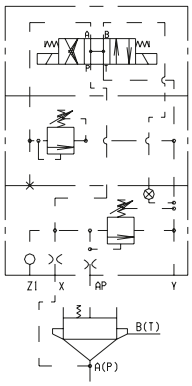
XP. 3. .

KEC. ∗∗. ME. .
CMP. E. ∗∗. .

KEL. ∗∗. U. .

MANUALLY ADJUSTABLE AND ELECTRICALLY SELECTED TWO LEVEL PRESSURE UNIT

This arrangement uses a dual solenoid electrically controlled valve type AD3E02C.. and a modular maximum pressure valve type AM3VMA... which, when combined, allow implementation of an electrically selected two level pressure system.
Normally, with the solenoid valve de-energized, the controlled flow is discharged to drain.



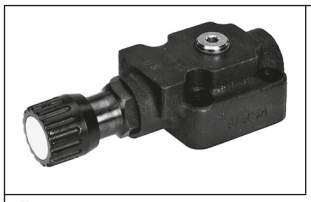
AD. 3. E.

AM. 3. VM. . .

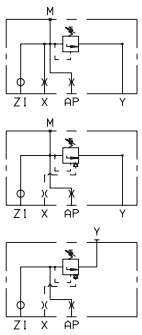
KEC. ∗∗. ME. .
CMP. E. ∗∗. .

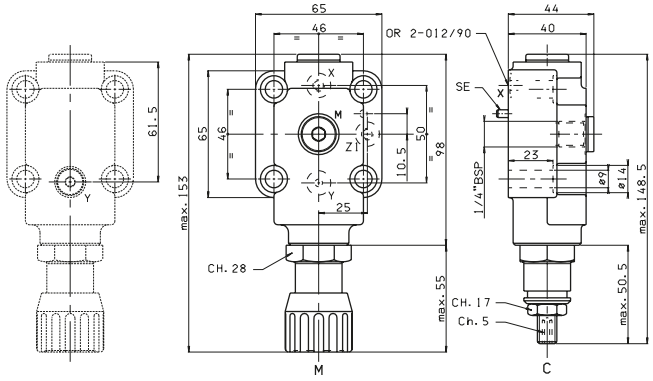
KEL. ∗∗. U. .

KEC16MP/UN/SL... WITH MAX. PRESSURE VALVE / EXCLUSION / SEQUENCING - IN LINE MOUNTING



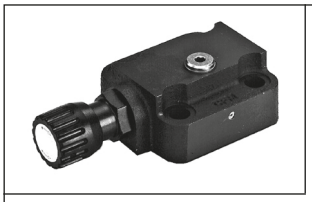
DIN STANDARD



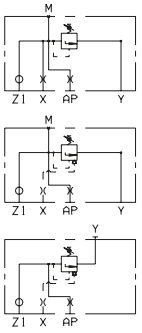


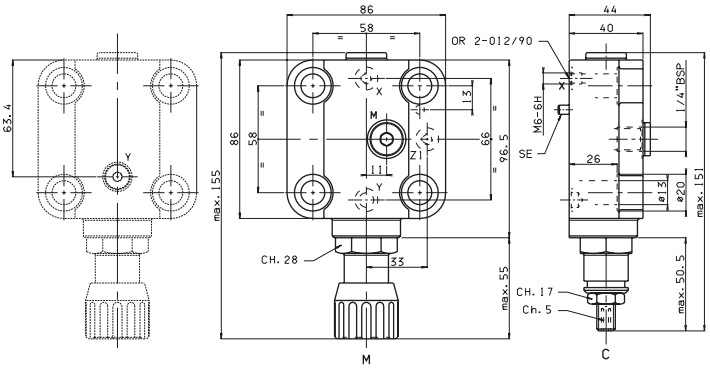
Weight: 1,3 Kg
The covers are supplied with
M8x35 ISO 4762 fixing screws and
reference pins dia ø3x12 UNI 6874-71

KEC25MP/UN/SL... WITH MAX. PRESSURE / EXCLUSION / SEQUENCING - IN LINE MOUNTING



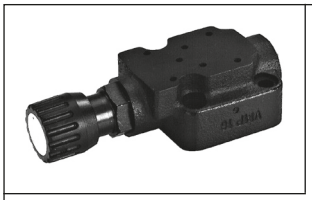
DIN STANDARD



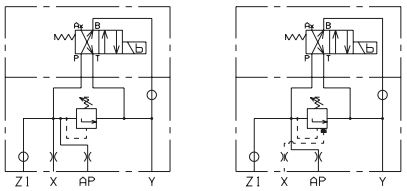


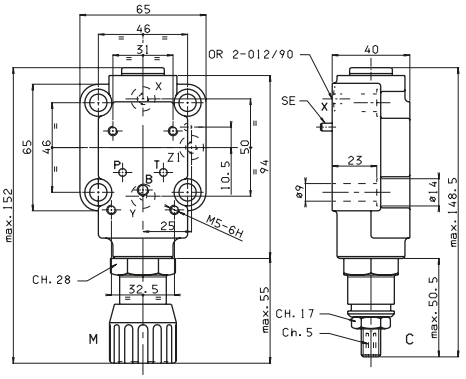
Weight: 1,8 Kg
The covers are supplied with
M12x45 ISO 4762 and
reference pins dia ø5x12 UNI 6874-71

KEC16ME/UE WITH MAX. PRESSURE VALVE / EXCLUSION WITH INTERFACE CETOP 3 - IN LINE MOUNTING



DIN STANDARD



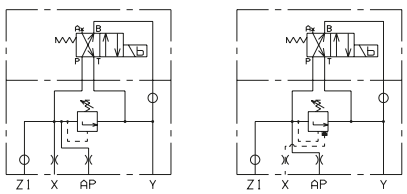


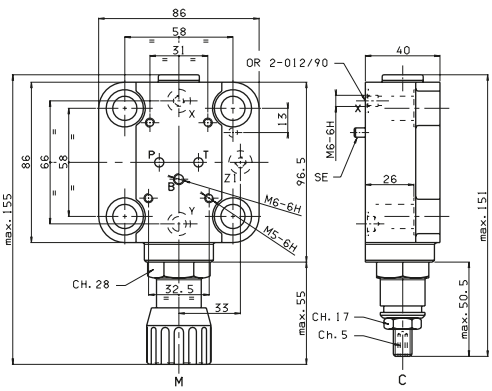
Weight: 1,3 Kg
The covers are supplied with
M8x35 ISO 4762 fixing screws and
reference pins dia ø3x12 UNI 6874-71

KEC25ME/UE WITH MAX. PRESSURE VALVE / EXCLUSION WITH INTERFACE CETOP 3 - IN LINE MOUNTING



DIN STANDARD



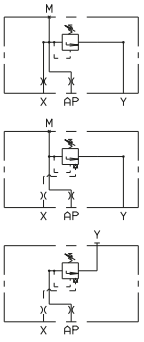


Weight: 1,8 Kg
The covers are supplied with
M12x45 ISO 4762 fixing screws and
reference pins dia ø5x12 UNI 6874-71

E

C*P16... WITH MAX. PRESSURE VALVE / EXCLUSION / SEQUENCING - PLATE MOUNTING

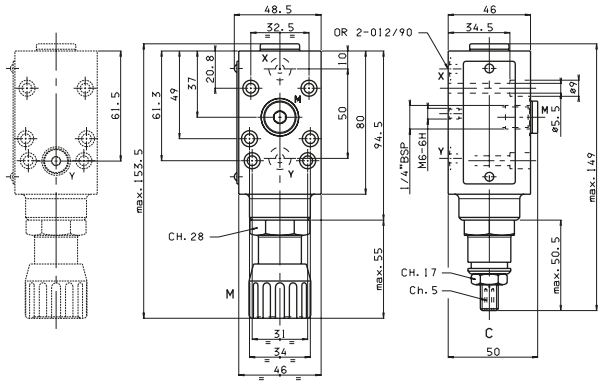




CMP16...

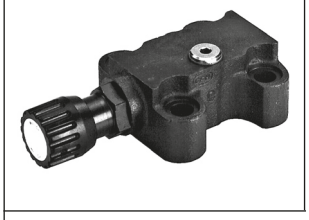
CUP16...

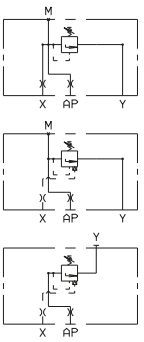
CSP16...



Weight: 1,3 Kg
The covers are supplied with
M5x45 ISO 4762 fixing screws

C*P25... WITH MAX. PRESSURE VALVE / EXCLUSION / SEQUENCING - PLATE MOUNTING

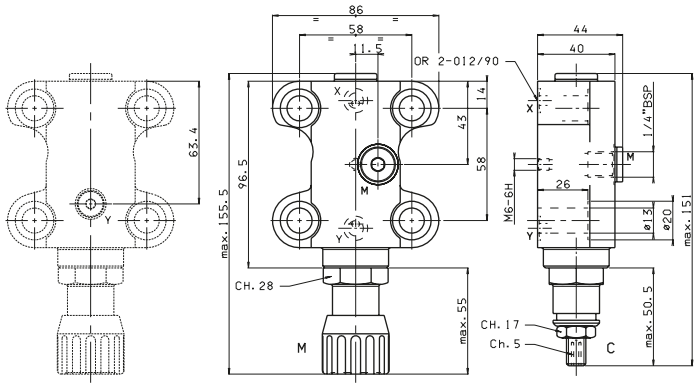




CMP25...

CUP25...

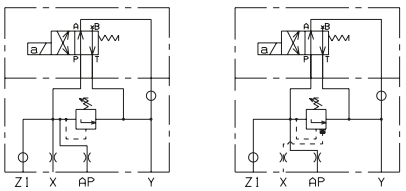
CSP25...



Weight: 1,5 Kg
The covers are supplied with
M12x45 ISO 4762 fixing screws

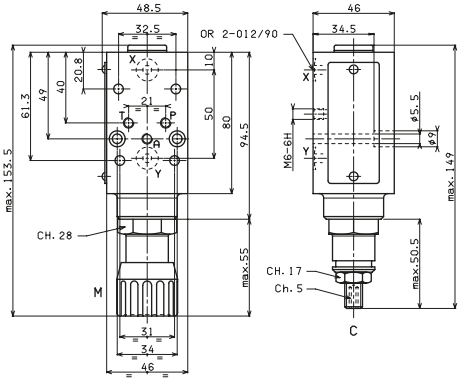
C*PE16 WITH MAX. PRESSURE VALVE / EXCLUSION WITH INTERFACE CETOP 3 - PLATE MOUNTING





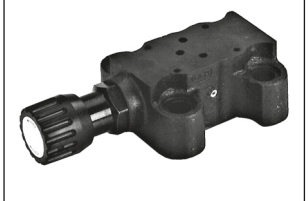
CMPE16...

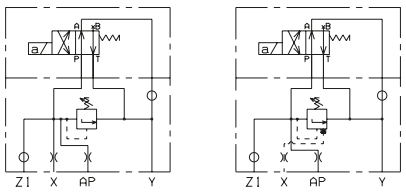
CUPE16...



Weight: 1,3 Kg
The covers are supplied with
M5X45 ISO 4762 fixing screws

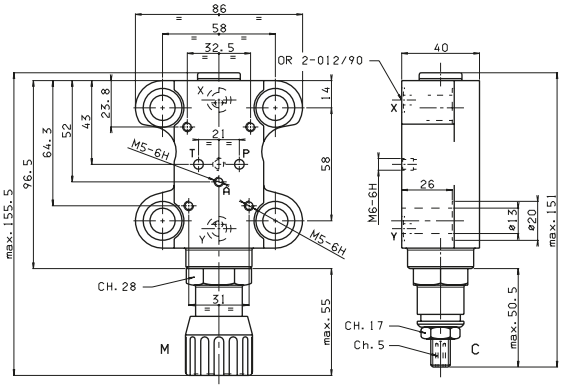
C*PE25 WITH MAX. PRESSURE VALVE / EXCLUSION WITH INTERFACE CETOP 3 - PLATE MOUNTING





CMPE25...

CUPE25...



Weight: 1,5 Kg
The covers are supplied with
M12x45 ISO 4762 fixing screws