

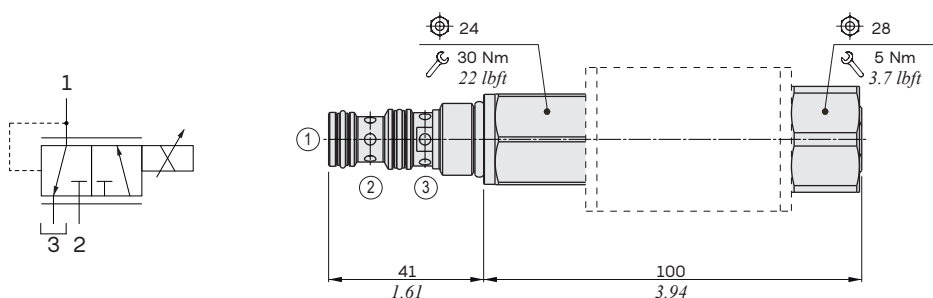
## RD08TX type pressure reducing valves - 3 way

- Direct acting with relieving
- Spool type
- Control with proportional solenoid
- System of purging of air
- Applications for high flow rates (max. 210 bar - 3050 psi)
- The backpressure values on line 3 must be added to valve nominal setting

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

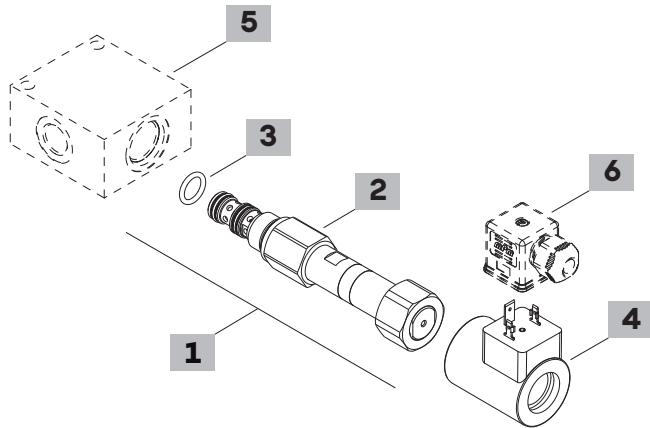
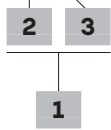
|                                            |                                                                        |                                                                          |
|--------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Nominal flow                               | 12 l/min (3.17 US gpm)                                                 |                                                                          |
| Max. pressure                              | Port 2 = 210 bar (3050 psi)<br>Port 3 = 30 bar (435 psi)               |                                                                          |
| Oil leakage                                | -                                                                      |                                                                          |
| Fluid                                      | mineral based or synthetic hydraulic fluid with lubricating properties |                                                                          |
| Viscosity                                  | 12-200 cSt                                                             |                                                                          |
| Max level of contamination                 | 18/16/13 ISO4406                                                       |                                                                          |
| Fluid temperature                          | with NBR seals+Polyurethane<br>with FPM seals                          | from -25°C (-13°F) to 90°C (194°F)<br>from -20°C (-4°F) to 110°C (230°F) |
| Environmental temp. for working conditions | from -20°C (-4°F) to 60°C (140°F)                                      |                                                                          |
| Cavity                                     | SAE 08/3                                                               |                                                                          |
| Coil type*                                 | BH                                                                     |                                                                          |
| Nominal voltages                           | 12 VDC - 24 VDC                                                        |                                                                          |
| Max. control current                       | 12 V -> 1.7 A - 24 V -> 0.85 A                                         |                                                                          |
| Dither frequency                           | 150-200 Hz                                                             |                                                                          |
| Weight                                     | 0.350 kg (0.77 lb)                                                     |                                                                          |

NOTE - For different conditions, please contact Walvoil Sales Dpt. - \*For coils further features see from page 201.



Ordering codes and description composition

RD08TX/002B



| 1 Cartridges |             |                  |
|--------------|-------------|------------------|
| TYPE         | CODE        | DESCRIPTION      |
| RD08TX/001B  | ORD08002041 | Pressure range 1 |
| RD08TX/002B  | ORD08002042 | Pressure range 2 |

| 2 Pressure range |                                        |
|------------------|----------------------------------------|
| TYPE             | DESCRIPTION                            |
| 1                | Pressure range 0÷45 bar (0÷652.5 psi); |
| 2                | Pressure range 0÷35 bar (0÷507.5 psi); |

| 3 Seals |                                                         |
|---------|---------------------------------------------------------|
| TYPE    | DESCRIPTION                                             |
| B       | NBR (Buna)+Polyurethane o-ring seals, std configuration |
| V       | FPM (Viton) o-ring seals, contact Sales Dept            |

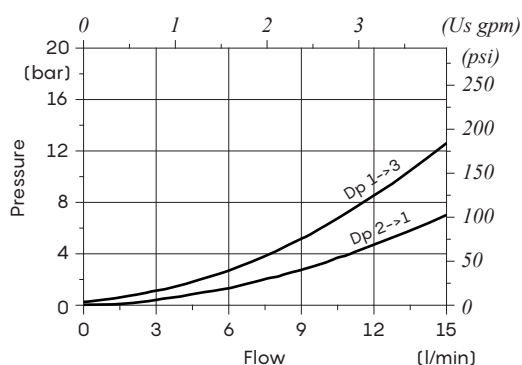
| 4 Coils                                   |             |                     |
|-------------------------------------------|-------------|---------------------|
| TYPE                                      | CODE        | DESCRIPTION         |
| BH 24VDC                                  | 4SLD002400A | 24VDC-ISO 4400 coil |
| For complete coils list see from page 201 |             |                     |

| 5 Valve body                                              |            |                                                      |
|-----------------------------------------------------------|------------|------------------------------------------------------|
| TYPE                                                      | CODE       | DESCRIPTION                                          |
| SAE08/3-G 3/8                                             | 3CC0830C11 | Aluminium body for cavity 08 valve, G 3/8 std thread |
| Note: aluminium body can stand up to 210 bar (3050 psi)   |            |                                                      |
| For steel bodies or different threading see from page 210 |            |                                                      |

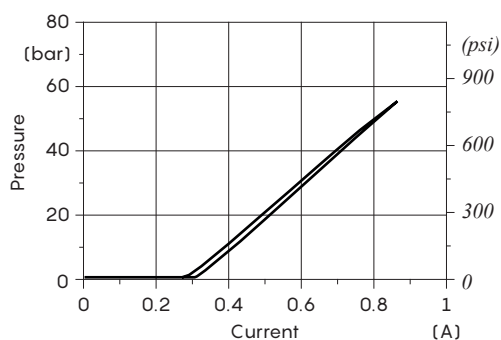
| 6 Connector                                    |             |             |
|------------------------------------------------|-------------|-------------|
| TYPE                                           | CODE        | DESCRIPTION |
| ISO4400                                        | 4CN1009995B | Connector   |
| For complete connectors list see from page 201 |             |             |

**Rating diagrams**

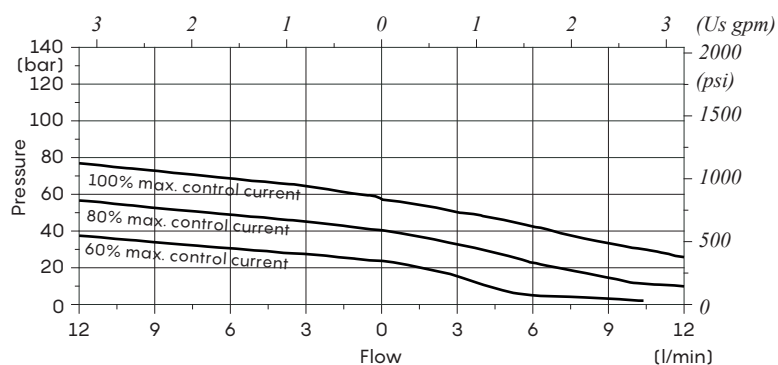
**Pressure drop**



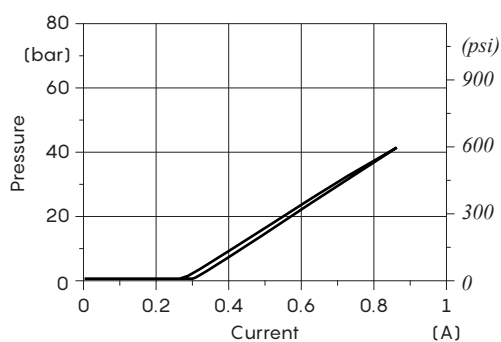
**Pressure range 1**  
**Reduced Pressure vs Control Current**



**Pressure range 1**  
**reducing/relieving pressure vs Flow rate**



**Pressure range 2**  
**Reduced Pressure vs Control Current**



**Pressure range 2**  
**reducing/relieving pressure vs Flow rate**

